

# Employment and Earnings

## April 1978



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In this issue:  
Expanded labor force data  
on persons of Hispanic origin





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

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

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

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

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

# Employment and Earnings

Vol. 25 No. 4 April 1978

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

## CONTENTS

Page

List of statistical tables .....	2
Employment and unemployment developments, March 1978 .....	5
Expansion of labor data on persons of Hispanic origin .....	7
Charts .....	12
Statistical tables:	
<b>Not seasonally adjusted—</b>	
Household data ..	24
Quarterly averages .....	62
Establishment data:	
Employment .....	73
Hours and earnings .....	97
Labor turnover .....	125
State and area unemployment data .....	134
<b>Seasonally adjusted series—</b>	
Household data .....	47
Quarterly averages .....	54
Establishment data:	
Employment .....	82
Hours and earnings .....	116
Productivity .....	117
Labor turnover .....	130
Explanatory notes .....	139

# MONTHLY HOUSEHOLD DATA

Page

## Employment Status

A- 1: Employment status of the noninstitutional population 16 years and over, 1947 to date. . . . .	24
A- 2: Employment status of the noninstitutional population 16 years and over by sex, 1967 to date . . . . .	25
A- 3: Employment status of the noninstitutional population by sex, age, and race . . . . .	26
A- 4: Labor force by sex, age, and race . . . . .	28
A- 5: Employment status of black workers by sex and age . . . . .	30
A- 6: Employment status of the noninstitutional population by sex, age, and race . . . . .	31
A- 7: Employment status of the noninstitutional population 16-21 years of age by race and sex . . . . .	31
A- 8: Full- and part-time status of the civilian labor force by sex, age, and race . . . . .	32

## Characteristics of the Unemployed

A- 9: Employment status of the noninstitutional population by family relationship . . . . .	33
A-10: Unemployed persons by marital status, sex, age, and race . . . . .	33
A-11: Unemployed persons by occupation of last job and sex . . . . .	34
A-12: Unemployed persons by industry of last job and sex . . . . .	34
A-13: Unemployed persons by reason for unemployment, sex, age, and race . . . . .	35
A-14: Unemployed persons by reason for unemployment, duration, sex, and age . . . . .	35
A-15: Unemployed jobseekers by the jobsearch methods used, sex, age, and race . . . . .	36
A-16: Unemployed jobseekers by the jobsearch methods used, sex, and reason for unemployment . . . . .	36
A-17: Unemployed persons by duration of unemployment . . . . .	37
A-18: Unemployed persons by duration, sex, age, race, and marital status . . . . .	37
A-19: Unemployed persons by duration, occupation, and industry of last job . . . . .	38

## Characteristics of the Employed

A-20: Employed persons by sex and age . . . . .	38
A-21: Employed persons by occupation, sex, and age . . . . .	39
A-22: Employed persons by occupation, sex, and race . . . . .	40
A-23: Employed persons by class of worker, age, and sex . . . . .	41
A-24: Employed persons by industry and occupation . . . . .	41
A-25: Employed persons with a job but not at work by reason, pay status, and sex . . . . .	42
A-26: Persons at work by type of industry and hours of work . . . . .	42
A-27: Persons at work 1-34 hours by usual status and reason for working less than 35 hours . . . . .	43
A-28: Nonagricultural workers-by industry and full- or part-time status . . . . .	43
A-29: Persons at work in nonagricultural industries by full- or part-time status, sex, age, race, and marital status . . . . .	44
A-30: Persons at work in nonfarm occupations by full- or part-time status and sex . . . . .	45

## Characteristics of 14 and 15 year-olds

A-31: Employment status of 14-15 year-olds by sex and race . . . . .	46
A-32: Employed 14-15 year-olds by sex, class of worker, and occupation . . . . .	46

## Seasonally Adjusted Employment and Unemployment Data

A-33: Employment status of the noninstitutional population by sex and age, seasonally adjusted . . . . .	47
A-34: Full- and part-time status of the civilian labor force, seasonally adjusted . . . . .	47
A-35: Employment status by race, sex, and age, seasonally adjusted . . . . .	48
A-36: Major unemployment indicators, seasonally adjusted . . . . .	49
A-37: Unemployed persons by duration of unemployment, seasonally adjusted . . . . .	49
A-38: Rates of unemployment by sex and age, seasonally adjusted . . . . .	50
A-39: Unemployed persons by reason for unemployment, seasonally adjusted . . . . .	50
A-40: Employed persons by sex and age, seasonally adjusted . . . . .	51
A-41: Unemployed persons by sex and age, seasonally adjusted . . . . .	51
A-42: Employed persons by selected social and economic categories, seasonally adjusted . . . . .	52

## Characteristics of Vietnam-Era Veterans and Nonveterans

A-43: Employment status of male Vietnam-era veterans and nonveterans 20 to 39 years of age . . . . .	53
---	----

# QUARTERLY HOUSEHOLD DATA

Page

## Seasonally Adjusted Employment and Unemployment Data

A-44: Employment status of the noninstitutional population by sex, age, and race, seasonally adjusted	54
A-45: Full- and part-time status of the civilian labor force by sex and age, seasonally adjusted	55
A-46: Employment status by race, sex, and age, seasonally adjusted	56
A-47: Major unemployment indicators, seasonally adjusted	57
A-48: Unemployed persons by duration of unemployment, seasonally adjusted	58
A-49: Rates of unemployment by sex and age, seasonally adjusted	58
A-50: Unemployed persons by reason for unemployment, seasonally adjusted	59
A-51: Employed persons by sex and age, seasonally adjusted	59
A-52: Employed persons by selected social and economic categories, seasonally adjusted	60

## Persons Not In Labor Force

A-53: Job desire of persons not in labor force by current activity, reasons for not seeking work, sex, and race, seasonally adjusted	61
A-54: Job desire of persons not in labor force and reasons for not seeking work by age and sex	62
A-55: Job desire of persons not in labor force and reasons for not seeking work by age, race, and sex	63
A-56: Persons not in labor force who desire work but think they cannot get jobs by age, race, sex, and detailed reason	63
A-57: Most recent work experience of persons not in labor force and reason for leaving last job for those who worked during previous 12 months by age, race, and sex	64
A-58: Work-seeking intentions of persons not in labor force and work history of those who intend to seek work within next 12 months by age, race, and sex	64

## Persons of Hispanic Origin

A-59: Employment status of the civilian noninstitutional population and the white, black, and Hispanic origin components by sex and age	65
---	----

## Vietnam-Era Veterans and Nonveterans Data

A-60: Employment status of male Vietnam-era veterans and nonveterans 20 to 34 years of age	66
A-61: Employment status of male Vietnam-era veterans and nonveterans 20 to 34 years by age and race	67

## Metropolitan-nonmetropolitan and Poverty-nonpoverty Area Data

A-62: Employment status of the population in metropolitan-nonmetropolitan areas by sex, age, and race	68
A-63: Employment status of the population in poverty and nonpoverty areas by race	69
A-64: Unemployment rates for selected labor force groups in poverty and nonpoverty areas by sex, age, and race	69

## Family Relationship Data

A-65: Unemployed persons by family relationship and presence of employed family members	70
A-66: Employed persons by family relationship and presence of additional employed family members	71

# MONTHLY ESTABLISHMENT DATA

## Employment—National

B- 1: Employees on nonagricultural payrolls by industry division, 1919 to date	73
B- 2: Employees on nonagricultural payrolls, by industry	74
B- 3: Women employees on nonagricultural payrolls, by industry <sup>1</sup>	----
B- 4: Indexes of employment on nonagricultural payrolls, by industry division, 1919 to date, monthly data seasonally adjusted	82

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

# MONTHLY ESTABLISHMENT DATA—Continued

Page

## Employment—National—Continued

B- 5: Employees on nonagricultural payrolls, by industry, seasonally adjusted . . . . .	83
B- 6: Production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted . . . . .	84
B- 7: Indexes of diffusion: Percent of industries in which employment increased, 1975 to date . . . . .	85

## Employment—State and Area

B- 8: Employees on nonagricultural payrolls for States and selected areas, by industry division . . . . .	86
---	----

## Hours and Earnings—National

C- 1: Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, 1955 to date . . . . .	97
C- 2: Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, by industry . . . . .	98
C- 3: Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government . . . . .	112
C- 4: Average hourly earnings excluding overtime of production workers on manufacturing payrolls, by industry . . . . .	112
C- 5: Gross and spendable average weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, in current and 1967 dollars . . . . .	113
C- 6: Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers on private nonagricultural payrolls . . . . .	114
C- 7: Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted . . . . .	116
C- 8: Average hourly and weekly earnings of production or nonsupervisory workers on private non-agricultural payrolls, seasonally adjusted . . . . .	116
C- 9: Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted . . . . .	117
C-10: Hours of wage and salary workers in nonagricultural establishments, by industry division . . . . .	117
C-11: Indexes of output and compensation per hour, unit costs, and prices, private business sector, seasonally adjusted . . . . .	118
C-12: Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, private business sector, seasonally adjusted, at annual rate . . . . .	119

## Hours and Earnings—State and Area

C-13: Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas . . . . .	120
---	-----

## Labor Turnover—National

D- 1: Labor turnover rates in manufacturing, 1969 to date . . . . .	125
D- 2: Labor turnover rates, by industry . . . . .	126
D- 3: Labor turnover rates in manufacturing, 1966 to date, seasonally adjusted . . . . .	130

## Labor Turnover—State and Area

D- 4: Labor turnover rates in manufacturing for selected States and areas . . . . .	131
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# MONTHLY STATE AND AREA UNEMPLOYMENT DATA

E- 1: Labor force and unemployment by State and selected metropolitan areas . . . . .	134
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# Employment and Unemployment Developments, March 1978

Employment rose in March and unemployment was little changed. The Nation's overall unemployment rate was 6.2 percent, compared with 6.1 percent in February and 6.3 percent in January. The rate has fallen more than a full percentage point in the past 12 months.

Total employment—as measured by the monthly survey of households—advanced by 260,000 to 93.3 million. Over the past year, employment has increased by 3.5 million (after allowing for the effect of changes in sampling and estimating procedures introduced in January).

Nonfarm payroll employment—as measured by the monthly survey of establishments—posted a sharp gain of 445,000 in March. At 84.5 million, payroll jobs were 3.1 million above their year-earlier level.

## Unemployment

The number of persons unemployed in March was about the same as in February, 6.1 million, seasonally adjusted. The unemployment rate was 6.2 percent, also little changed from the previous month.

Jobless rates for adult men (4.5 percent), adult women (5.8 percent), and teenagers (17.3 percent) were all virtually unchanged from February. The only major demographic group to show any significant change over the month was black adult women, whose unemployment rate increased to 11.4 percent from 10.1 percent.

Over the past year, joblessness has been reduced by more than 1 million, and the rate has dropped by 1.2 percentage points. Virtually all worker groups have shared in this improvement. For example, substantial reductions in unemployment were registered among adult men and women, full-time workers and white- and blue-collar workers. However, unemployment among blacks was little different from a year earlier.

The median duration of unemployment declined from 7.0 to 6.2 weeks in March, reflecting a drop in the number of persons unemployed 15 weeks or longer. The mean duration of unemployment, however, was little changed from February at 12.3 weeks.

## Total employment and the labor force

The civilian labor force grew by about 320,000 in March to 99.4 million, and employment was up by 260,000 to 93.3 million (seasonally adjusted). In both the labor force

and employment, adult women outgained adult men two to one. Over the year, the labor force rose by 2.4 million and employment increased 3.5 million (taking into account the effect of the improvements in the household survey sampling and estimation procedures introduced in January).

The March employment-population ratio was up slightly to an all-time high of 58.2 percent. The ratio was 1.5 points higher than a year earlier. The over-the-year increase was particularly strong among adult women, as their proportion employed increased from 44.3 to 46.2 percent.

The civilian labor force participation rate was 62.8 percent, remaining about the same as in the previous 4 months and 0.7 percentage point above the year-ago level.

## Discouraged workers

Discouraged workers are persons who report that they want work but are not looking for jobs because they believe they cannot find any. Because they do not meet the labor market test—that is, they are not engaged in active job search—they are classified as not in the labor force rather than as unemployed. These data are published on a quarterly basis.

Consistent with a decline in unemployment during the first quarter, the number of discouraged workers also fell. The first quarter average was 900,000, down from the third and fourth quarter 1977 levels of 1.1 million and 970,000, respectively. All of the decrease in discouragement occurred among women, as men showed a slight increase. About 70 percent of the discouraged total cited job market factors as their reason for not seeking work. (See table A-53.)

## Industry payroll employment

The number of employees on nonagricultural payrolls rose by 445,000 in March to 84.5 million, seasonally adjusted. Every major industry division registered gains, as employment increased in 74 percent of the 172 industries that comprise the BLS diffusion index of private nonagricultural payroll employment. Total nonfarm payroll employment has risen by 1.1 million since December and was 3.1 million above the year-earlier level.

The pervasiveness of the March payroll employment advance was reflected in over-the-month gains of 60,000 or more in contract construction, manufacturing, trade,

services, and government. The bulk of the overall gain occurred in the service-producing sector (275,000), as has typically been the case in recent years. Growth in this sector over the past 12 months has totaled nearly 2.3 million.

In the goods-producing sector, both contract construction and manufacturing posted over-the-month increases of 75,000 jobs. The factory job total has risen by 725,000 since last March, with three-fifths of the increase occurring in the last 4 months. Two-thirds of the manufacturing increase over the month occurred in the durable goods sector.

### **Hours**

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls rose 0.3 hour to 36.1 hours in March, seasonally adjusted. This represented a return to the levels that prevailed at the end of last year before the recent weather-related reductions. As was true for employment, the rise in working hours was spread throughout the major industry divisions.

The factory workweek rose by one-half hour in March, also returning to levels prevailing in late 1977. Mining and

contract construction showed workweek gains of 1.0 and 0.6 hour, respectively, with the other major industry groups posting increases of lesser magnitude.

As a result of the advance in both employment and hours, the index of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls increased by 1.5 percent in March to a record 118.8 (1967=100). The factory index rose to 101.5 in March, its highest level since mid-1974.

### **Hourly and weekly earnings**

Average hourly earnings of production or nonsupervisory workers on nonagricultural payrolls increased in March by 0.4 percent on a seasonally-adjusted basis. This advance, combined with the increase in hours, resulted in a 1.2-percent over-the-month rise in average weekly earnings. Since last March, average hourly and weekly earnings have advanced by 8.2 and 7.6 percent, respectively.

Before adjustment for seasonality, average hourly earnings were \$5.53, up 2 cents from February and 42 cents above a year earlier. Average weekly earnings rose \$2.36 over the month to \$197.97 and have risen \$14.01 since March a year ago.



# Expansion of Labor Force Data on Persons of Hispanic Origin

\*Harvey R. Hamel

This issue of *Employment and Earnings* introduces a significant expansion in the amount and type of labor force information on persons of Hispanic origin which are to be published regularly on a quarterly basis. Included for the first time are separate data on the employment status of persons in the three largest Hispanic ethnic groups—those of Mexican, Puerto Rican, and Cuban origin. The quarterly data series presented in tables 1 through 4 will appear in the April, July, October, and January issues of this publication; the January issue will also contain annual averages. Some of these expanded series will, in addition, appear in the Bureau of Labor Statistics' (BLS) quarterly press release, *Labor Force Developments*. Additional characteristics of persons of Hispanic origin will be published later this year.

These new data supplement the Hispanic data which have been published quarterly since the April 1974 issue of *Employment and Earnings* (see table A-59). A less detailed table and brief text have also appeared in *Labor Force Developments*. This information has provided a continuing data series on the employment status of all persons of Hispanic origin (without ethnic origin detail). In addition, several separate articles and reports containing Hispanic data have been published by the Bureau. The most comprehensive work on this subject—*Workers of Spanish Origin: A Chartbook*—was published in February of this year.<sup>1</sup>

The new data published in these tables are part of an overall expansion in the Bureau's Hispanic data program undertaken partly in response to Sections 1 and 2 of Public Law 94-311, which state:

Section 1. "That the Department of Labor, in cooperation with the Department of Commerce, shall develop methods for improving and expanding the collection, analysis and publication of unemployment data relating to Americans of Spanish origin or descent."

Section 2. "The Department of Commerce, the Department of Labor, the Department of Health, Education and Welfare, and the Department of Agriculture shall each collect, and publish regularly statistics which indicate the social, health, and economic condition of Americans of Spanish origin or descent."

These data now make it possible to analyze differences in the overall employment situation for persons of Mexican,

Puerto Rican, and Cuban origin (see table 1), as well as to provide detail heretofore unavailable on all persons of Hispanic origin. This includes data on:

—the employment status of Hispanic Vietnam-era veterans (table 2);

—unemployment of Hispanic workers by duration (table 3);

—unemployment rates of Hispanic workers by age and sex (table 4).

BLS expects to publish still other data on the characteristics of Hispanic workers in the relatively near future. These would include annual average data for persons of Hispanic origin for those States and areas in which large proportions of such persons reside.

The Bureau is also continuing to explore the feasibility of providing seasonally adjusted Hispanic labor force series. Such series would enable analysts to determine whether short-term changes in Hispanic labor force developments were the result of purely seasonal phenomena or whether they resulted from economic influences. Seasonally adjusted Hispanic data would also provide the basis for comparisons of trends among Hispanics with those for black and white workers. Although recent seasonal adjustment tests have indicated that the data are not sufficiently reliable, the Bureau plans to retest the series periodically with the aim of publication of seasonally adjusted Hispanic data as soon as they meet Bureau criteria for statistical reliability.

The existing labor force series for all Hispanics have shown clearly that the unemployment rate of Hispanic workers is typically higher than that of all white workers but lower than that of all black workers. The new data in table 1 show, however, that the incidence of unemployment varies widely for Hispanic workers, according to their specific origin. The highest overall unemployment rates during the first quarter of 1978 occurred

\* Harvey R. Hamel is an economist in Office of Current Employment Analysis, Bureau of Labor Statistics.

<sup>1</sup> *Workers of Spanish Origin: A Chartbook*, which is available in both English (BLS Bulletin 1970) and Spanish (BLS Bulletin 1971) versions, may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402 at \$2.40 per copy.

among workers of Puerto Rican origin ( 13.1 percent). followed by workers of Mexican and Cuban origin (10.1 and 6.7 percent, respectively). Puerto Rican workers also had significantly lower rates of labor force participation ( 50.2 percent) than their Mexican- and Cuban- origin counterparts ( 63.9 and 63.2 percent, respectively). These patterns generally held true for adult men, adult women, and teenagers as well.

Because Hispanics make up only about 5 percent of the labor force, data for this group are subject to a relatively large degree of sampling error. These errors are particularly large for small estimates, such as those for persons of Cuban origin. Please refer to the Explanatory Notes in this publication for additional information on the reliability of these estimates.

All of the Hispanic data published by the Bureau are derived from the Current Population Survey, a sample survey of 56,000 households conducted for the BLS by the Bureau of the Census. Identification of persons of Hispanic origin is obtained from responses to the survey question, "What is your origin or descent?" Respondents are shown a "Flashcard," a facsimile of which appears as Figure 1, and if they indicate any of the categories 10-17, they are identified as being of Hispanic origin. Persons who report themselves as Mexican-American, Chicano, Mexican, or Mexicano are consolidated into the one category, Mexican origin.

**Figure 1**

What is your origin or descent?	
01 German	10 Mexican-American
02 Italian	11 Chicano
03 Irish	12 Mexican
04 French	13 Mexicano
05 Polish	14 Puerto Rican
06 Russian	15 Cuban
07 English	16 Central or South American
08 Scottish	17 Other Spanish
09 Welsh	20 Negro
	21 Black
	OR
	30 Another group not listed

FORM CPS-597 (1-3-74) U.S. DEPARTMENT OF COMMERCE SOCIAL AND ECONOMIC STATISTICS ADMIN. BUREAU OF THE CENSUS

ORIGIN FLASHCARD  
CURRENT POPULATION SURVEY

**Table 1. Employment status of persons of Mexican, Puerto Rican, and Cuban origin by sex and age, quarterly averages, not seasonally adjusted**

[Numbers in thousands]

Employment status	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978
<b>TOTAL</b>								
Civilian noninstitutional population . . . . .	6,817	7,479	3,857	4,311	1,001	1,101	509	514
Civilian labor force . . . . .	4,094	4,568	2,380	2,755	502	553	323	325
Percent of population . . . . .	60.1	61.1	61.7	63.9	50.1	50.2	63.5	63.2
Employment . . . . .	3,590	4,103	2,095	2,476	421	480	280	304
Agriculture . . . . .	171	181	156	158	5	4	3	5
Nonagricultural industries . . . . .	3,419	3,922	1,939	2,317	415	476	277	299
Unemployment . . . . .	504	464	285	279	82	72	42	22
Unemployment rate . . . . .	12.3	10.2	12.0	10.1	16.2	13.1	13.1	6.7
Not in labor force . . . . .	2,722	2,911	1,478	1,556	499	549	186	188
<b>Males, 20 years and over</b>								
Civilian noninstitutional population . . . . .	2,717	2,977	1,585	1,795	377	389	200	206
Civilian labor force . . . . .	2,283	2,524	1,364	1,562	306	318	167	165
Percent of population . . . . .	84.0	84.8	86.1	87.0	81.2	81.7	83.5	80.1
Employment . . . . .	2,042	2,316	1,234	1,440	254	282	148	157
Agriculture . . . . .	129	147	118	129	5	4	2	3
Nonagricultural industries . . . . .	1,913	2,170	1,116	1,311	249	278	146	154
Unemployment . . . . .	241	208	131	122	51	36	19	8
Unemployment rate . . . . .	10.6	8.3	9.6	7.8	16.8	11.3	11.3	4.9
Not in labor force . . . . .	434	453	220	232	71	71	33	41
<b>Females, 20 years and over</b>								
Civilian noninstitutional population . . . . .	3,145	3,429	1,690	1,863	502	555	257	256
Civilian labor force . . . . .	1,375	1,581	746	896	158	184	129	134
Percent of population . . . . .	43.7	46.1	44.1	48.1	31.5	33.2	50.2	52.3
Employment . . . . .	1,228	1,427	654	800	142	166	116	123
Agriculture . . . . .	17	21	15	17	--	--	1	2
Nonagricultural industries . . . . .	1,211	1,405	638	783	141	166	115	122
Unemployment . . . . .	148	154	92	95	16	19	13	10
Unemployment rate . . . . .	10.8	9.7	12.4	10.6	10.1	10.1	10.3	7.6
Not in labor force . . . . .	1,769	1,848	944	968	344	370	128	122
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population . . . . .	955	1,073	582	653	123	158	52	52
Civilian labor force . . . . .	436	463	269	297	39	51	27	27
Percent of population . . . . .	45.7	43.2	46.2	45.5	31.7	32.3	51.9	51.9
Employment . . . . .	320	361	207	235	25	33	17	23
Agriculture . . . . .	25	13	23	12	--	--	--	--
Nonagricultural industries . . . . .	295	347	185	223	25	33	17	23
Unemployment . . . . .	116	102	62	62	14	18	10	4
Unemployment rate . . . . .	26.6	22.1	23.0	20.8	(2)	(2)	(2)	(2)
Not in labor force . . . . .	519	611	313	356	83	107	25	26

<sup>1</sup> Includes persons of Central or South American origin and other Hispanic origin, not shown separately.

<sup>2</sup> Percent not shown where base is less than 80,000.

NOTE: Data for 1977 for total Hispanic origin are not strictly comparable with those published earlier. These estimates incorporate the expanded sample and revised estimation procedures introduced in the national sample in January 1978.

**Table 2. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years by age, race, and Hispanic origin, quarterly averages, not seasonally adjusted**

[Numbers in thousands]

Employment status	Veterans <sup>1</sup>						Nonveterans					
	White		Black and other		Hispanic origin <sup>2</sup>		White		Black and other		Hispanic origin <sup>3</sup>	
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978
<b>Total, 20 to 34 years:</b>												
Civilian noninstitutional population . . . . .	6,147	5,949	706	643	N.A.	240	14,960	15,777	2,139	2,387	N.A.	1,162
Civilian labor force . . . . .	5,864	5,665	630	596	N.A.	217	13,522	14,239	1,777	1,984	N.A.	1,060
Employed . . . . .	5,379	5,337	531	512	N.A.	198	12,332	13,212	1,490	1,686	N.A.	950
Unemployed . . . . .	485	328	99	84	N.A.	19	1,190	1,027	287	298	N.A.	110
Unemployment rate . . . . .	8.3	5.8	15.7	14.1	N.A.	8.8	8.8	7.2	16.2	15.0	N.A.	10.4
<b>20 to 24 years</b>												
Civilian noninstitutional population . . . . .	921	716	163	111	N.A.	50	7,023	7,226	964	1,085	N.A.	501
Civilian labor force . . . . .	834	634	133	97	N.A.	41	5,938	6,092	746	824	N.A.	437
Employed . . . . .	669	546	99	67	N.A.	33	5,269	5,478	586	649	N.A.	387
Unemployed . . . . .	165	88	34	30	N.A.	8	669	614	160	175	N.A.	50
Unemployment rate . . . . .	19.8	13.9	25.6	30.9	N.A.	(3)	11.3	10.1	21.4	21.2	N.A.	11.4
<b>25 to 29 years</b>												
Civilian noninstitutional population . . . . .	2,812	2,283	297	256	N.A.	87	4,560	5,109	641	751	N.A.	392
Civilian labor force . . . . .	2,683	2,162	266	237	N.A.	81	4,324	4,840	560	666	N.A.	368
Employed . . . . .	2,467	2,030	221	209	N.A.	76	3,972	4,558	486	589	N.A.	328
Unemployed . . . . .	216	132	45	28	N.A.	5	352	282	74	77	N.A.	40
Unemployment rate . . . . .	8.1	6.1	16.9	11.8	N.A.	6.2	8.1	5.8	13.2	11.6	N.A.	10.9
<b>30 to 34 years</b>												
Civilian noninstitutional population . . . . .	2,414	2,950	246	276	N.A.	103	3,377	3,442	534	551	N.A.	269
Civilian labor force . . . . .	2,347	2,869	231	262	N.A.	95	3,260	3,307	471	494	N.A.	255
Employed . . . . .	2,243	2,761	211	236	N.A.	89	3,091	3,176	418	448	N.A.	235
Unemployed . . . . .	104	108	20	26	N.A.	6	169	131	53	46	N.A.	20
Unemployment rate . . . . .	4.4	3.8	8.7	9.9	N.A.	6.3	5.2	4.0	11.3	9.3	N.A.	7.8

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

<sup>2</sup> Data on persons of Hispanic origin are tabulated separately, without regard to race, which means that they are also included in the data for white and black workers. At the time of the

1970 Census, approximately 96 percent of their population was white.

<sup>3</sup> Percent not shown where base is less than 60,000.

N.A.= Not available.

**Table 3. Unemployed persons by duration of unemployment, race, and Hispanic origin, quarterly averages, not seasonally adjusted**

[Numbers in thousands]

Weeks of unemployment	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978
<b>DURATION</b>								
Less than 5 weeks .....	2,899	2,737	2,417	2,212	482	525	208	182
5 to 14 weeks .....	2,567	2,227	2,053	1,727	514	499	155	152
15 weeks and over .....	2,372	1,742	1,887	1,270	485	472	141	130
15 to 26 weeks .....	1,147	994	926	746	221	248	73	76
27 weeks and over .....	1,225	748	962	524	264	224	68	54
Average (mean) duration, in weeks .....	15.0	12.8	14.5	12.0	17.0	15.4	13.8	13.5
Median duration, in weeks .....	8.2	7.2	7.9	6.8	9.3	8.9	7.3	7.6
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	37.0	40.8	38.0	42.5	32.5	35.1	41.3	39.2
5 to 14 weeks .....	32.8	33.2	32.3	33.2	34.7	33.4	30.8	32.8
15 weeks and over .....	30.3	26.0	29.7	24.4	32.7	31.6	28.0	28.0
15 to 26 weeks .....	14.6	14.8	14.6	14.3	14.9	16.6	14.5	16.4
27 weeks and over .....	15.6	11.2	15.1	10.1	17.8	15.0	13.5	11.6

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

**Table 4. Rates of unemployment by sex, age, race, and Hispanic origin, quarterly averages not seasonally adjusted**

Sex and age	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978
<b>Total, 16 years and over .....</b>	<b>8.2</b>	<b>6.8</b>	<b>7.5</b>	<b>6.0</b>	<b>14.3</b>	<b>13.6</b>	<b>12.3</b>	<b>10.2</b>
16 to 19 years .....	20.0	18.2	18.1	15.7	42.1	42.5	26.6	22.1
16 to 17 years .....	22.5	21.2	21.4	18.9	40.5	48.1	35.2	33.4
18 to 19 years .....	18.4	16.1	15.9	13.4	42.8	39.6	22.2	15.3
20 to 24 years .....	13.0	11.5	11.5	10.0	25.0	22.5	14.6	12.7
25 years and over .....	6.0	4.6	5.6	4.1	9.6	8.7	9.7	7.9
25 to 54 years .....	6.2	4.8	5.7	4.3	10.1	9.2	9.6	8.0
55 years and over .....	5.1	3.9	4.9	3.6	7.2	6.0	10.4	7.1
<b>Men, 16 years and over .....</b>	<b>7.9</b>	<b>6.5</b>	<b>7.2</b>	<b>5.7</b>	<b>14.1</b>	<b>13.5</b>	<b>12.0</b>	<b>9.5</b>
16 to 19 years .....	20.5	18.4	18.5	16.0	42.7	41.6	25.1	21.0
16 to 17 years .....	23.0	22.1	22.2	19.7	37.1	50.3	32.7	29.7
18 to 19 years .....	18.8	15.8	15.9	13.4	45.2	36.8	21.1	15.6
20 to 24 years .....	13.6	12.2	12.3	10.7	23.7	23.5	15.1	12.0
25 years and over .....	5.6	4.3	5.2	3.8	9.5	8.5	9.5	7.3
25 to 54 years .....	5.7	4.3	5.4	3.9	9.6	8.7	9.7	7.3
55 years and over .....	5.2	3.9	4.8	3.6	9.2	7.4	9.0	7.5
<b>Women, 16 years and over .....</b>	<b>8.7</b>	<b>7.4</b>	<b>8.0</b>	<b>6.5</b>	<b>14.6</b>	<b>13.7</b>	<b>12.9</b>	<b>11.2</b>
16 to 19 years .....	19.5	17.9	17.7	15.2	41.4	43.5	28.6	23.6
16 to 17 years .....	21.9	20.1	20.4	18.0	44.3	45.1	38.9	39.0
18 to 19 years .....	17.9	16.4	15.9	13.4	40.0	42.7	23.7	14.9
20 to 24 years .....	12.2	10.8	10.5	9.3	26.5	21.3	14.0	13.5
25 years and over .....	6.5	5.2	6.0	4.6	9.7	9.0	9.9	8.7
25 to 54 years .....	6.9	5.6	6.3	4.9	10.6	9.8	9.6	8.9
55 years and over .....	4.9	3.7	5.0	3.6	4.4	4.2	12.5	6.4

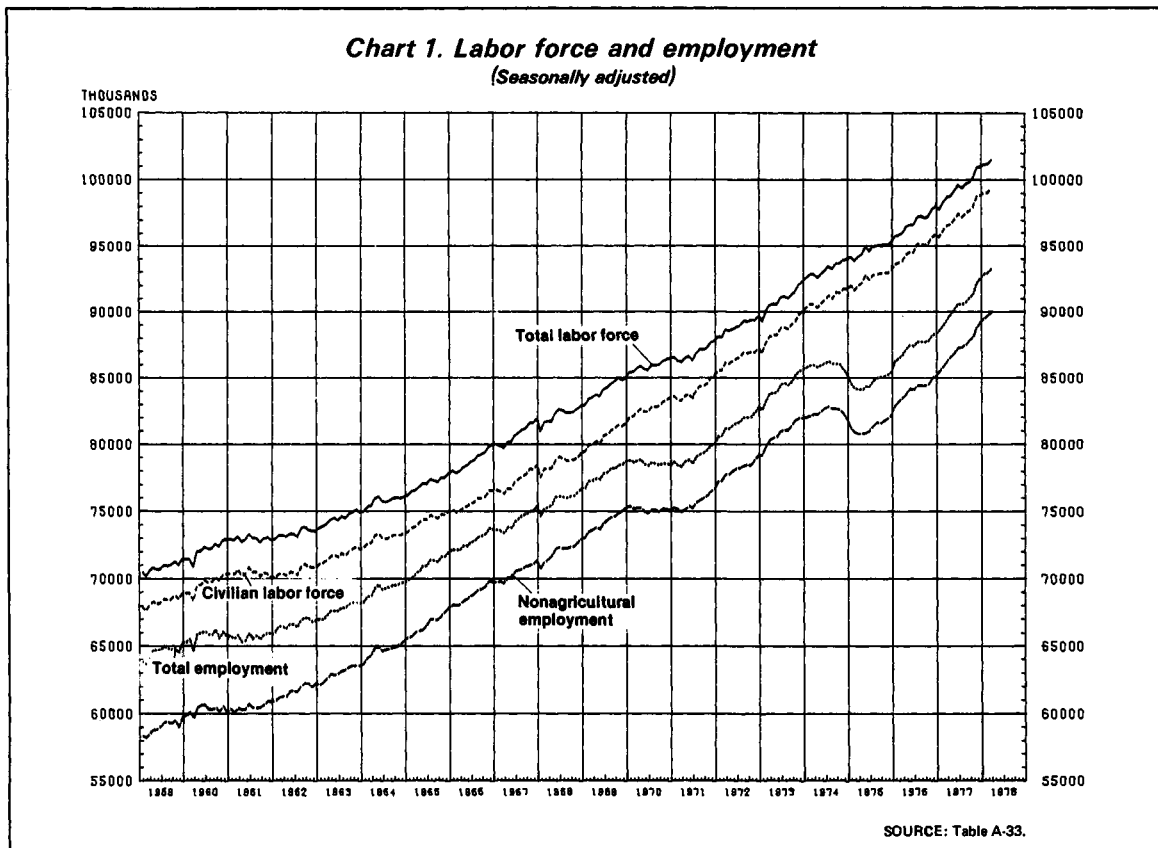
<sup>1</sup> Data relate to black workers only. According to the 1970 Census, they comprised about 89 percent of the "black and other" population group.

<sup>2</sup> See footnote 2, table 2.

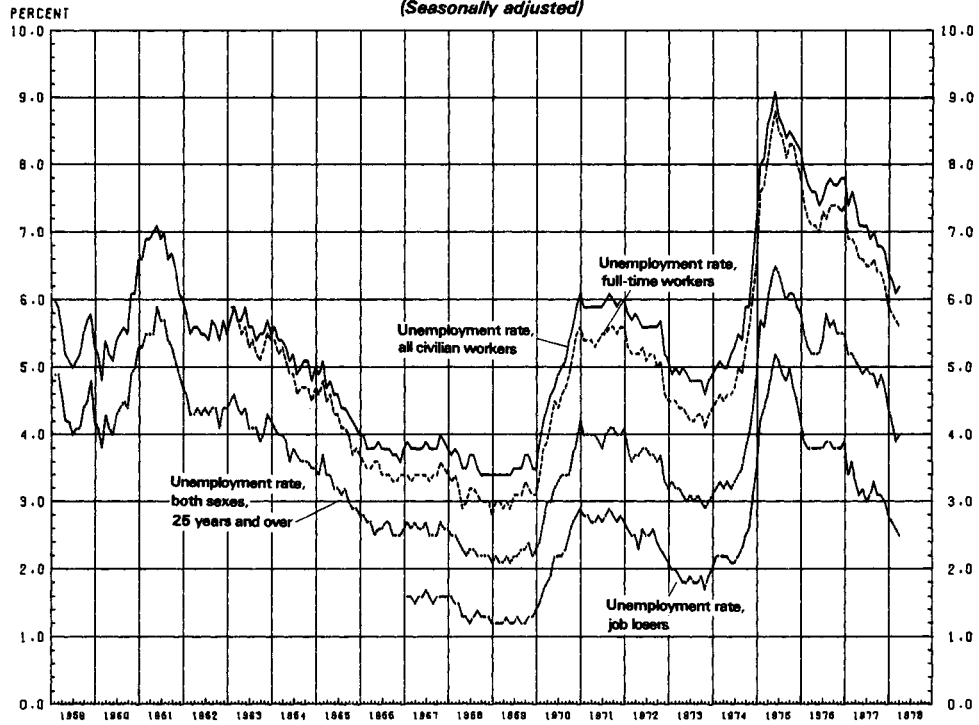
# CHARTS

Page

1.	Labor force and employment, 1959-78 .....	12
2.	Major unemployment indicators, 1959-78 .....	13
3.	Civilian labor force participation rates by sex and age, 1959-78 .....	13
4.	Total employment by sex and age, 1959-78 .....	14
5.	Employment-population ratios by sex and age, 1959-78 .....	15
6.	Payroll employment in goods- and service-producing industries, 1959-78 .....	15
7.	Nonagricultural payroll employment by industry, 1959-78 .....	16
8.	Persons at work full and part time in nonagricultural industries, 1959-78 .....	17
9.	Employment in nonfarm occupations, 1959-78 .....	18
10.	Unemployment rates by sex and age, 1959-78 .....	19
11.	Unemployment rates by race, 1959-78 .....	19
12.	Unemployment rates by major occupational groups, 1959-78 .....	20
13.	Duration of unemployment, 1959-78 .....	21
14.	Average weekly hours in nonagricultural industries, 1959-78 .....	22
15.	Average weekly earnings in nonagricultural industries, 1959-78 .....	22
16.	Total private gross and spendable weekly earnings, 1959-78 .....	23
17.	Labor turnover rates in manufacturing, 1959-78 .....	23

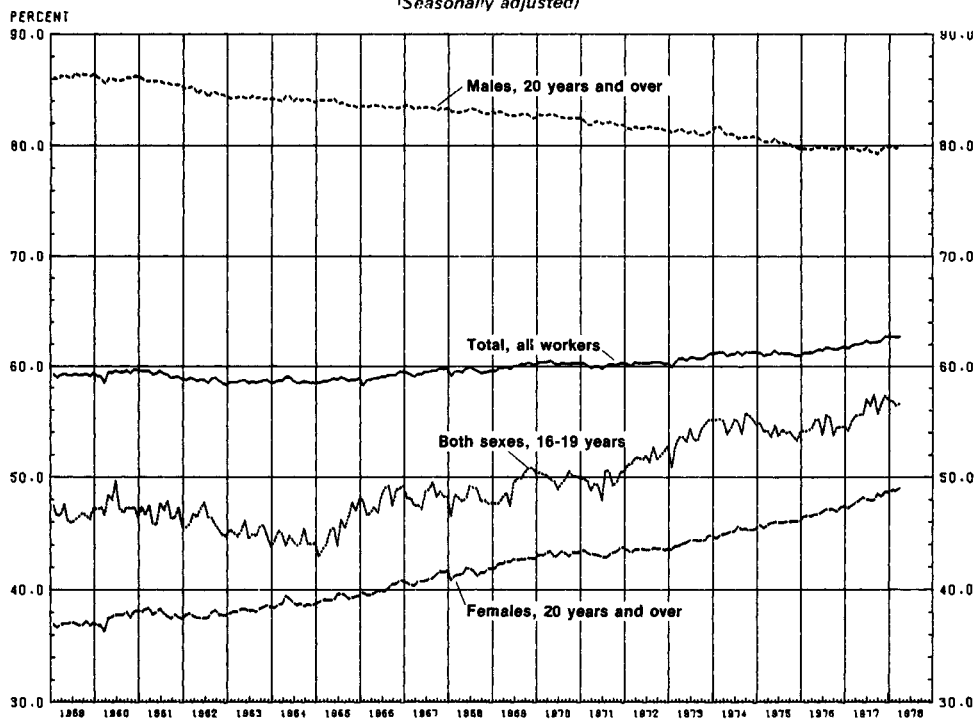


**Chart 2. Major unemployment indicators**  
(Seasonally adjusted)



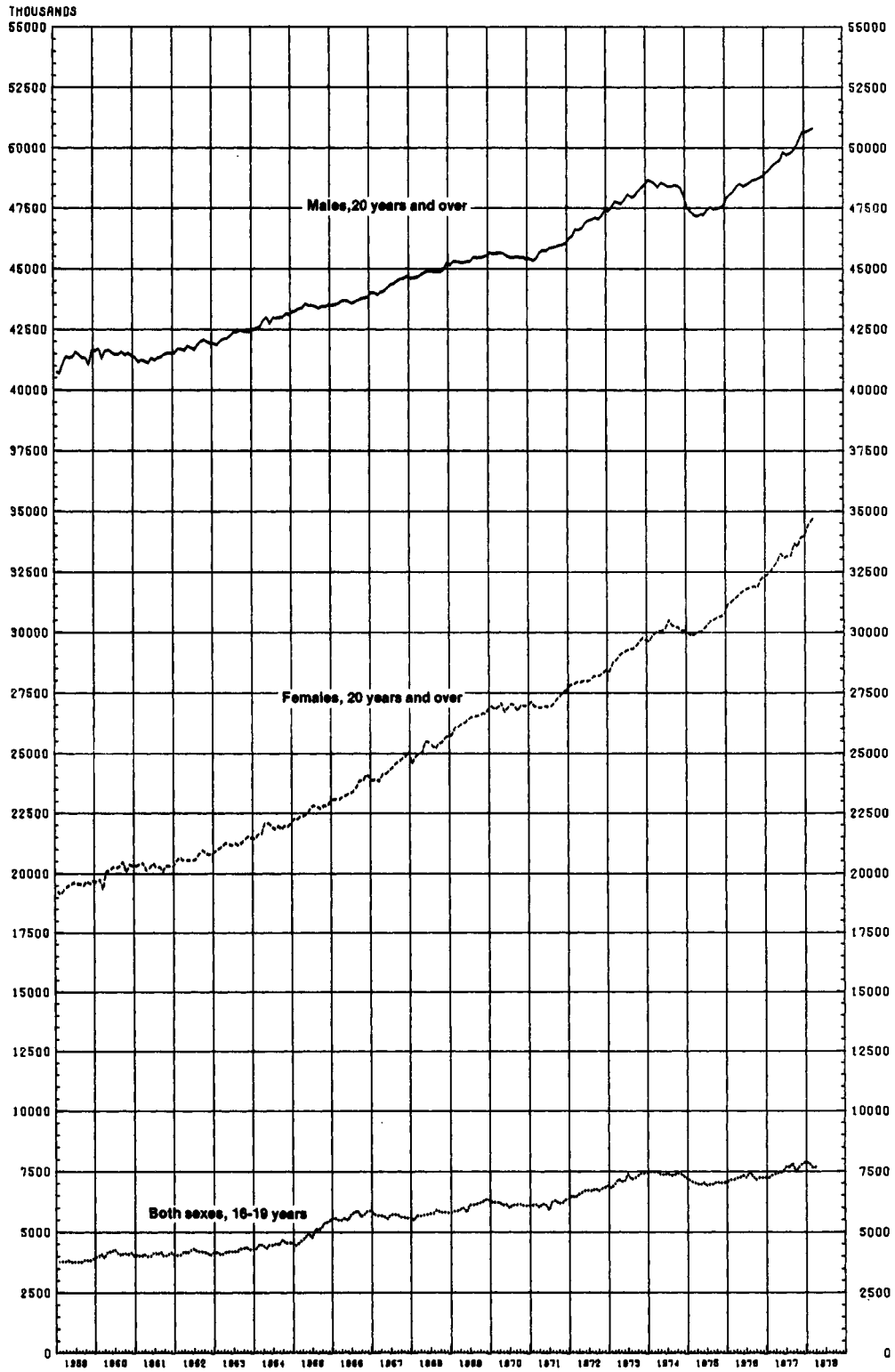
SOURCE: Tables A-36, A-38, and A-39.

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



SOURCE: Table A-33.

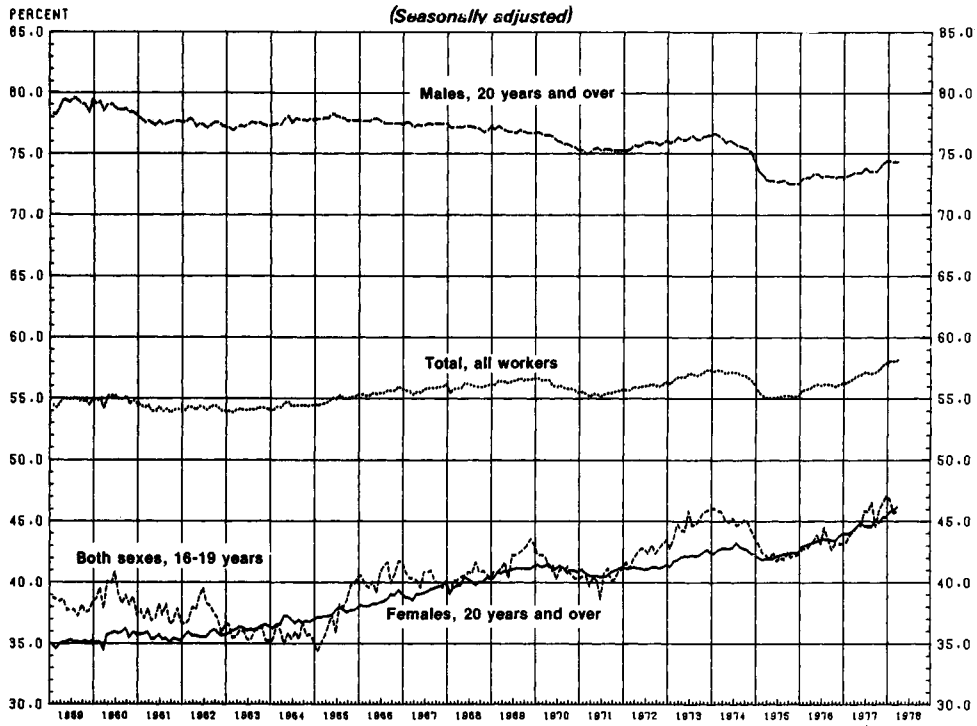
**Chart 4. Total employment by sex and age**  
(Seasonally adjusted)



SOURCE: Table A-33.

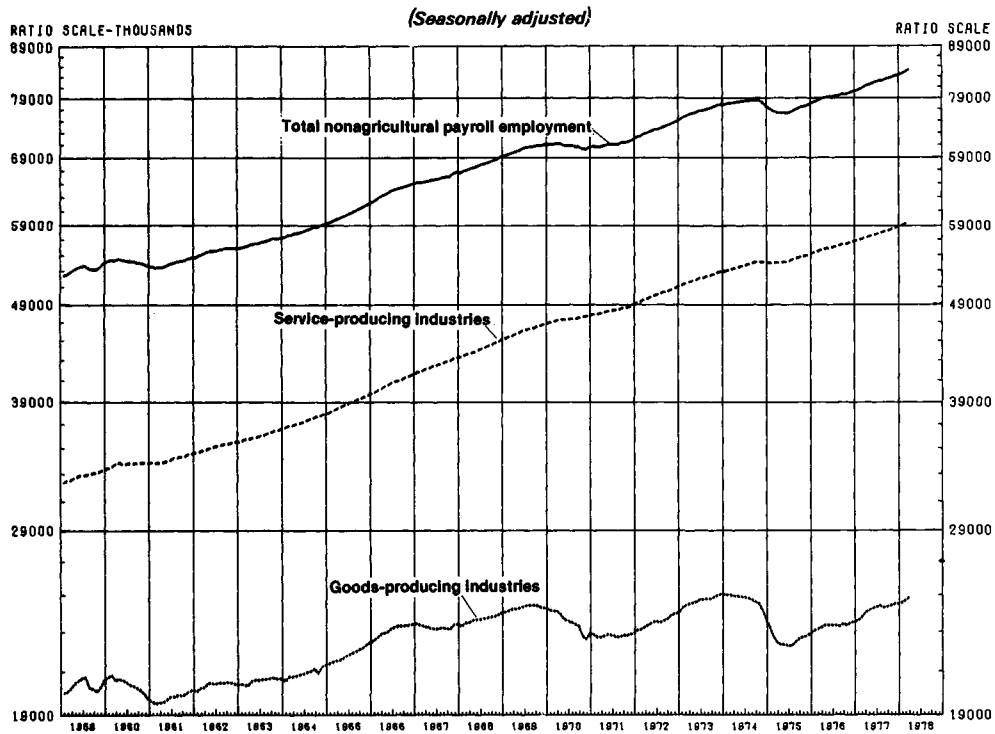


**Chart 5. Employment—population ratios by sex and age**



SOURCE: Table A-33.

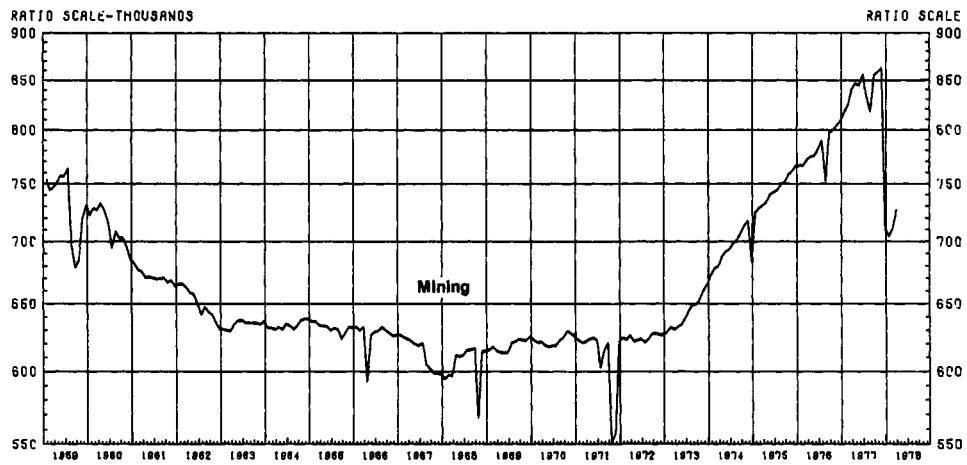
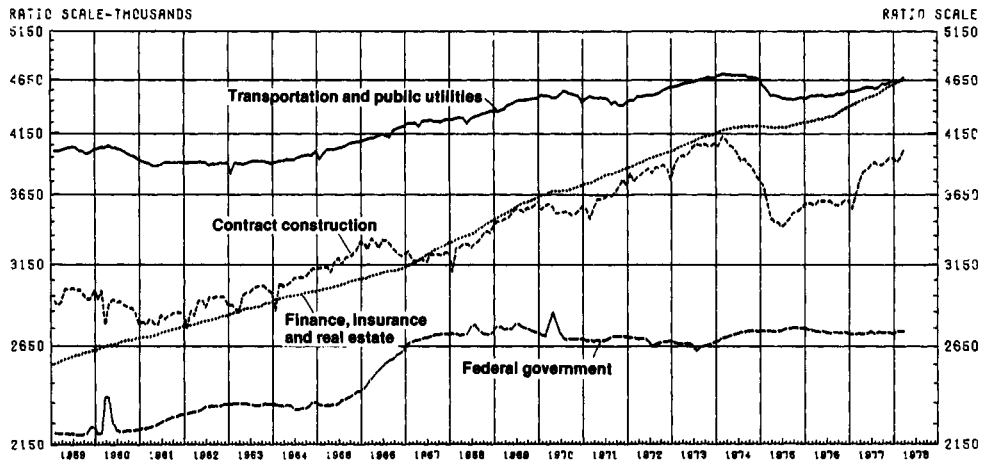
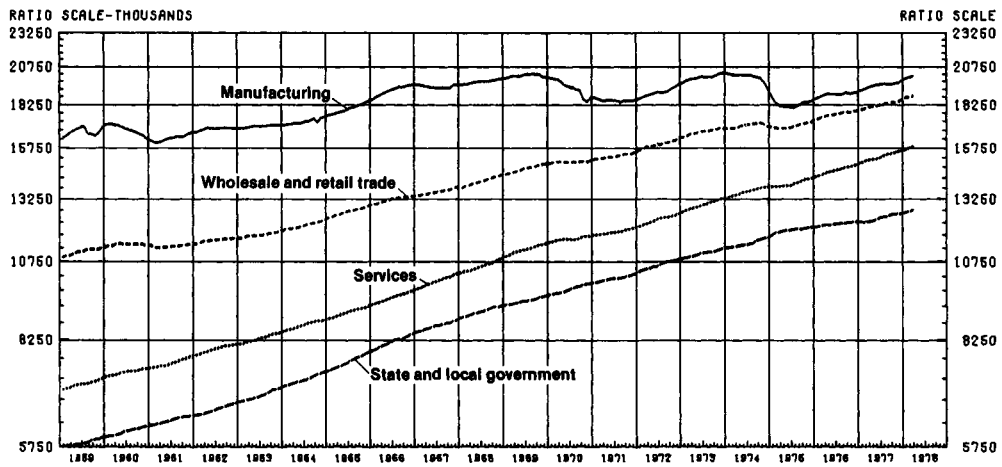
**Chart 6. Payroll employment in goods- and service-producing industries**



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-5.

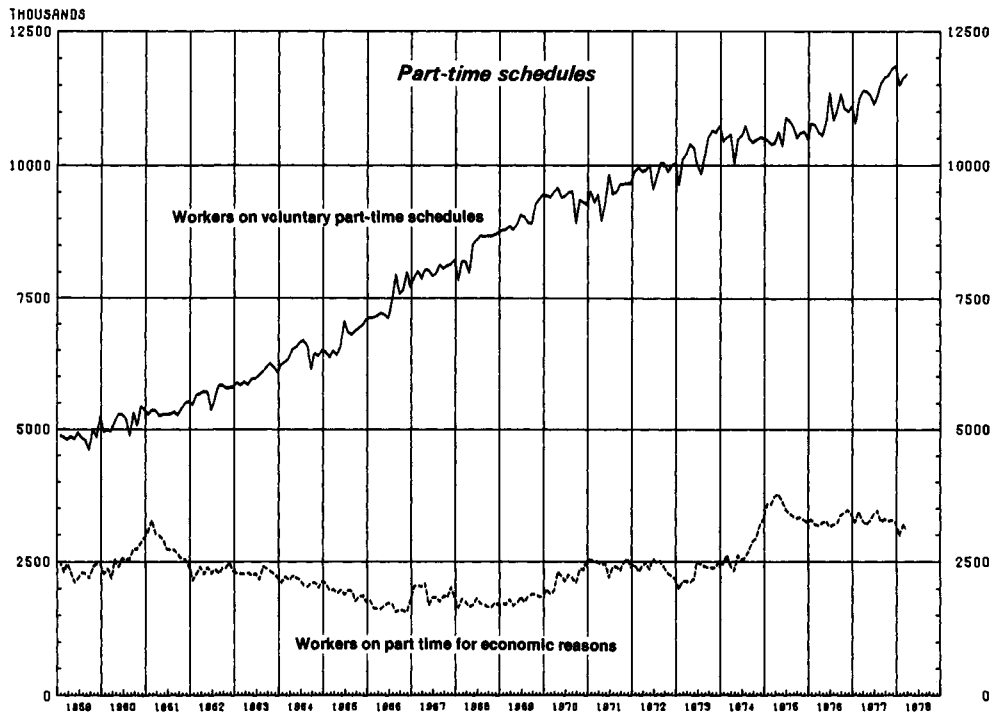
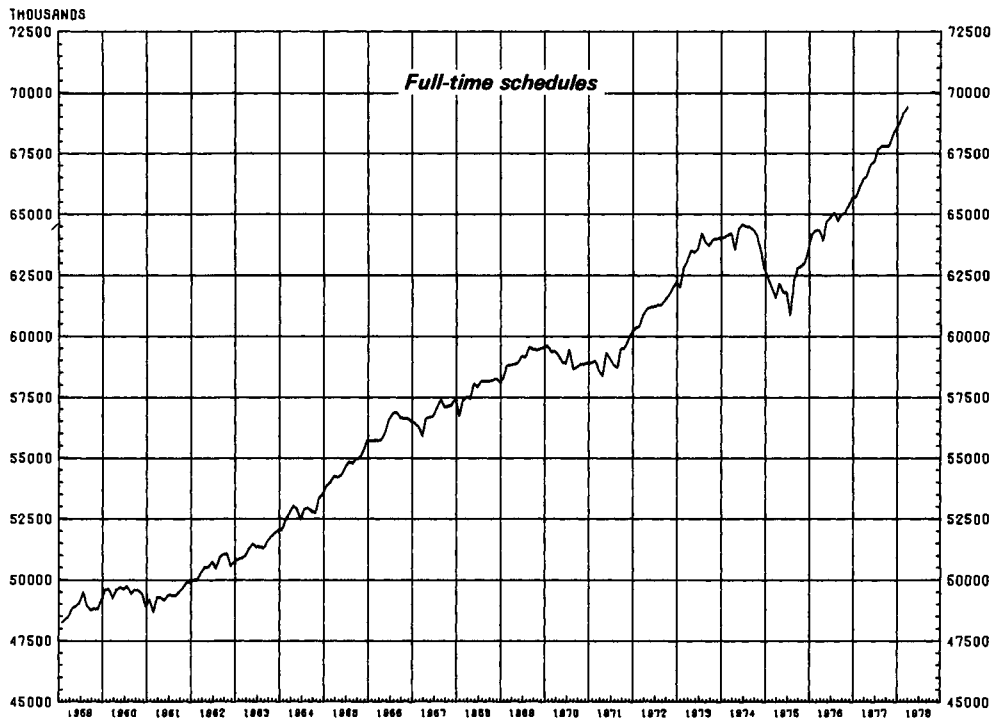
**Chart 7. Nonagricultural payroll employment by industry**  
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

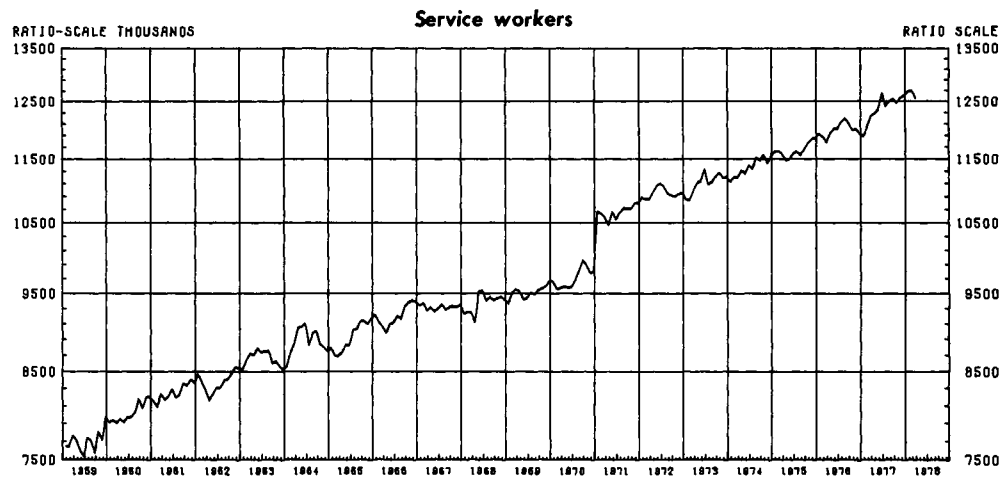
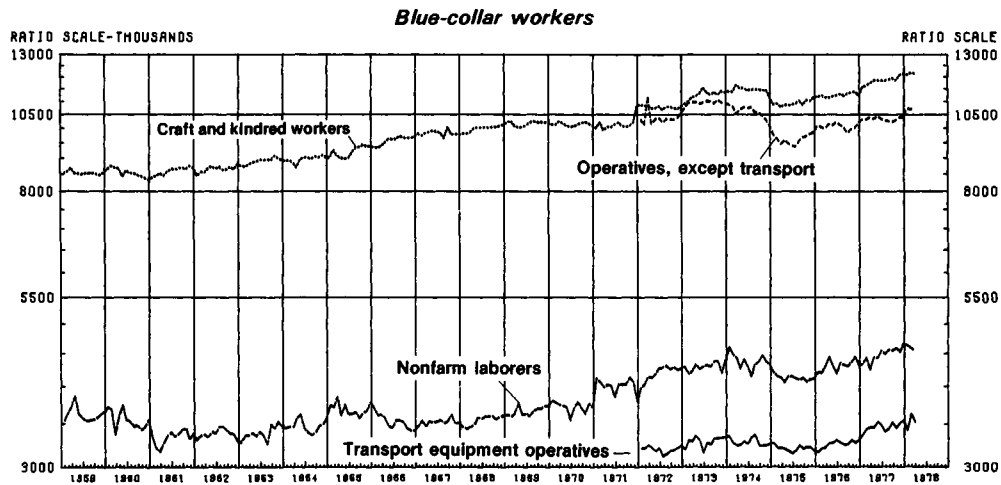
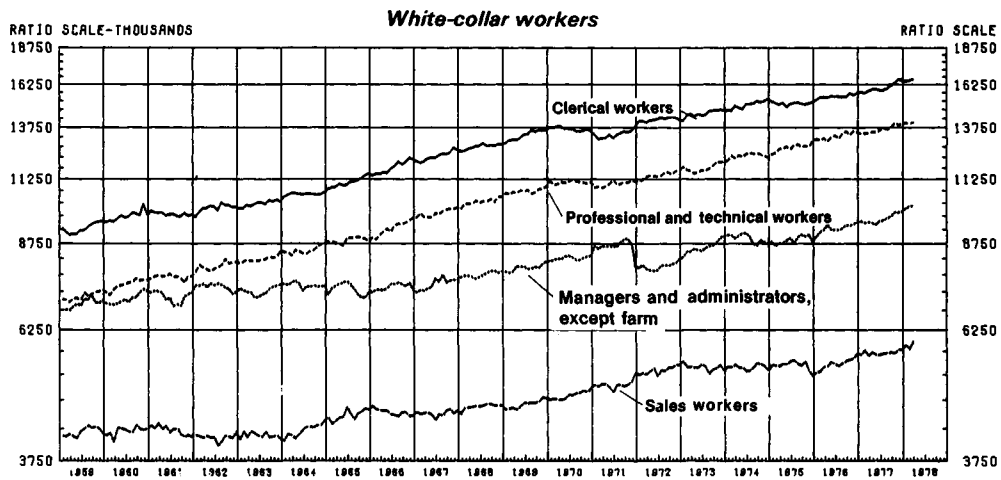
SOURCE: Table B-5.

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



SOURCE: Table A-42.

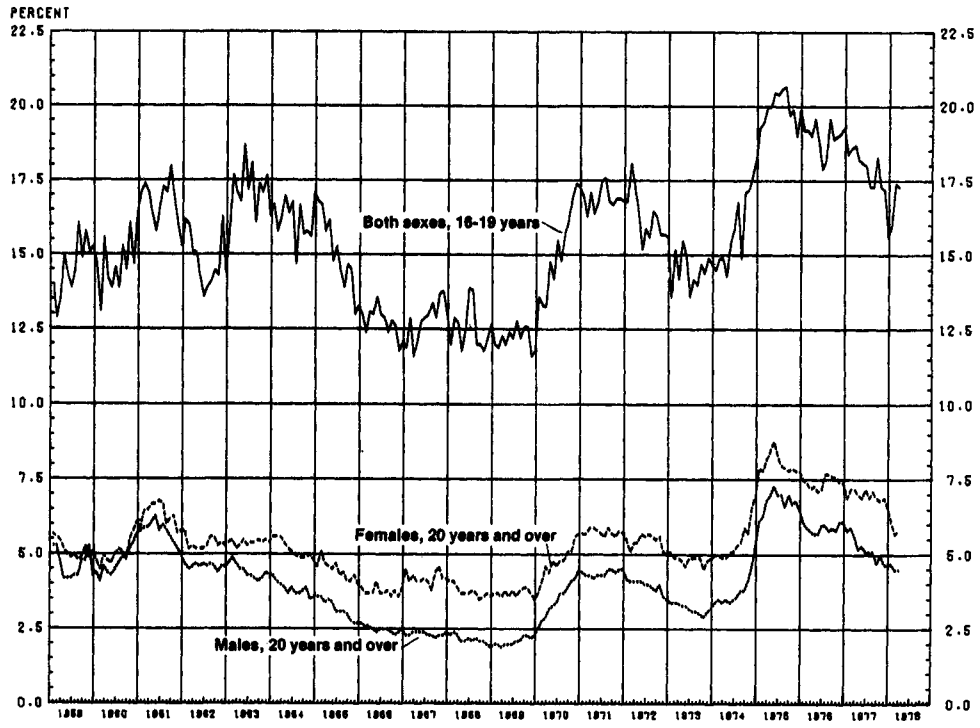
**Chart 9. Employment in nonfarm occupations**  
(Seasonally adjusted)



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

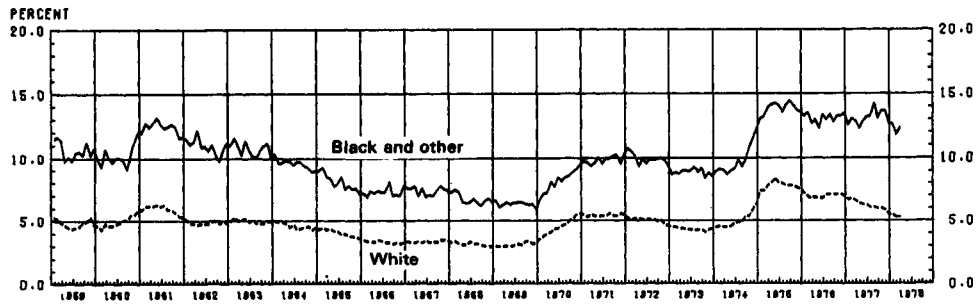
SOURCE: Table A-42.

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

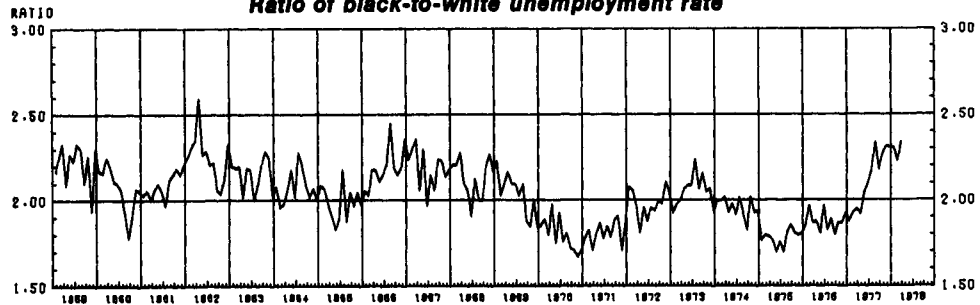


SOURCE: Table A-36.

**Chart 11. Unemployment rates by race**  
(Seasonally adjusted)

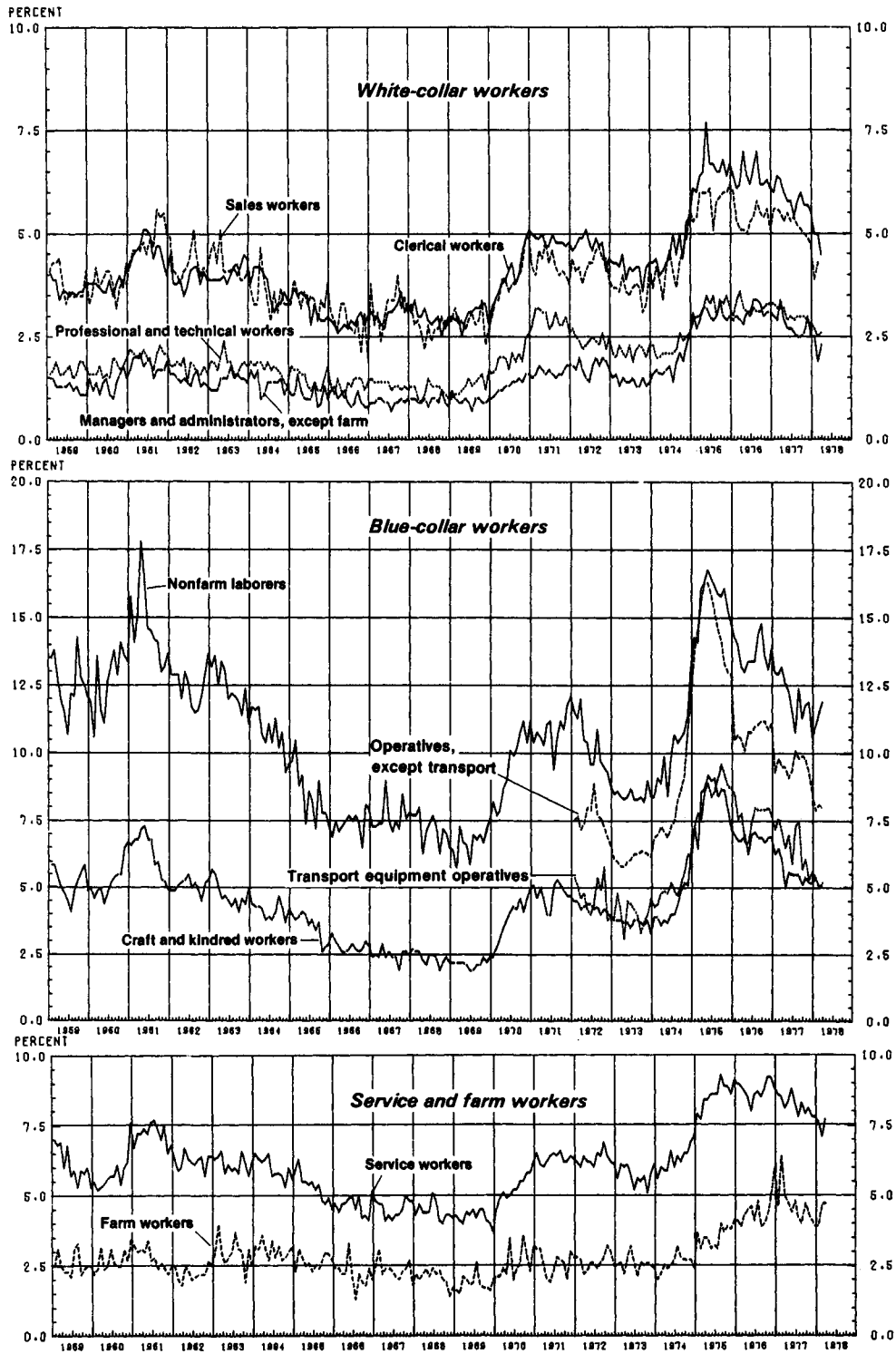


**Ratio of black-to-white unemployment rate**



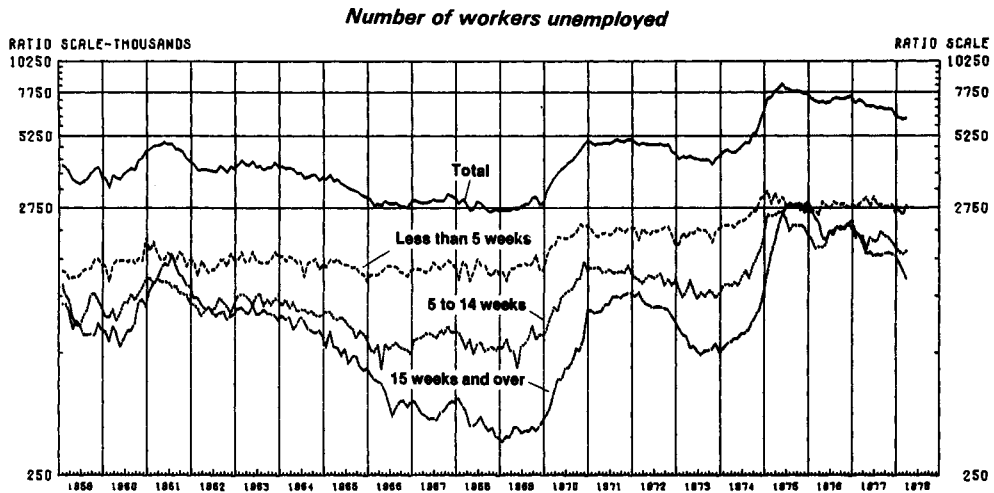
SOURCE: Table A-35.

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



SOURCE: Table A-36.

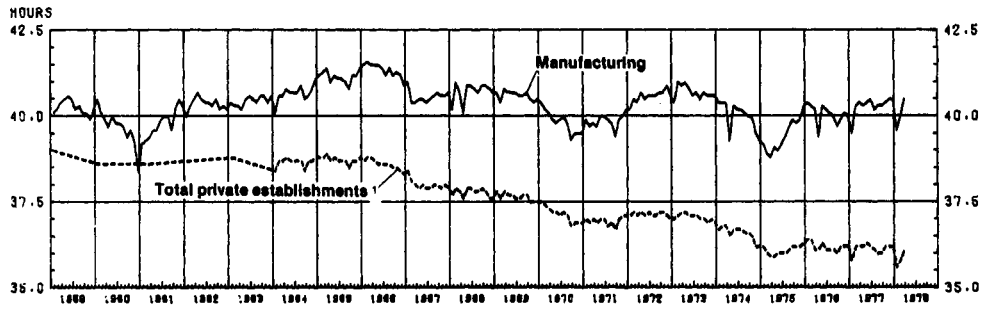
**Chart 13. Duration of unemployment**  
(Seasonally adjusted)



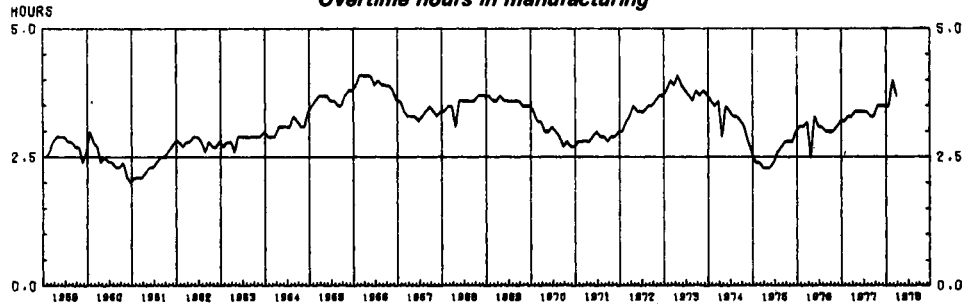
SOURCE: Table A-37.

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

*(Seasonally adjusted)*



**Overtime hours in manufacturing**



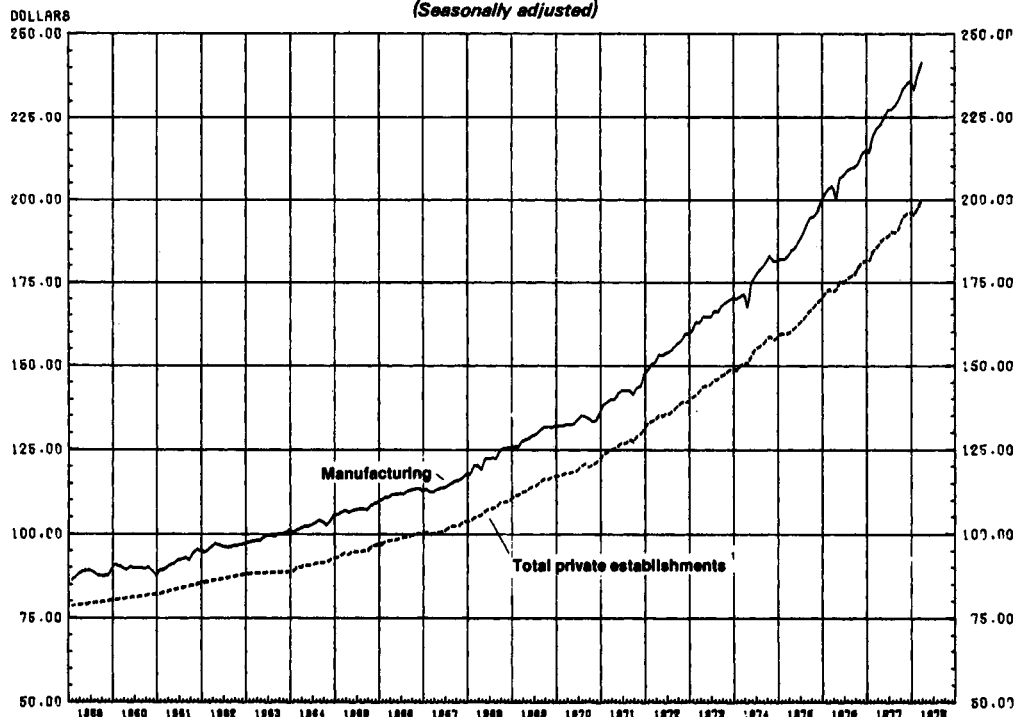
<sup>1</sup> Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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

*(Seasonally adjusted)*



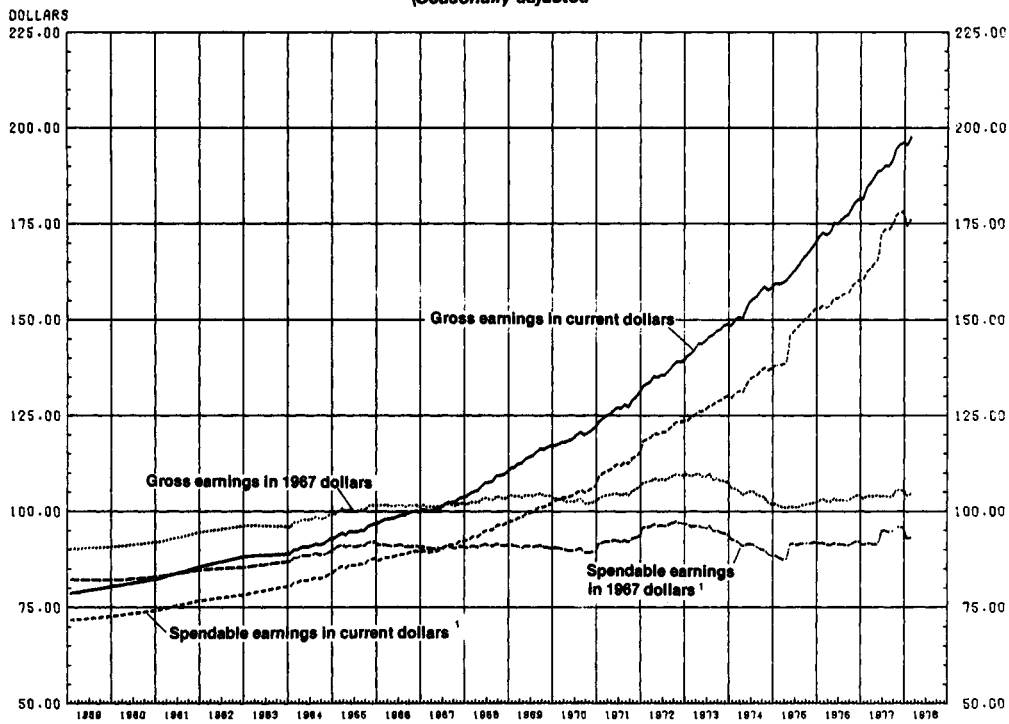
<sup>1</sup> Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

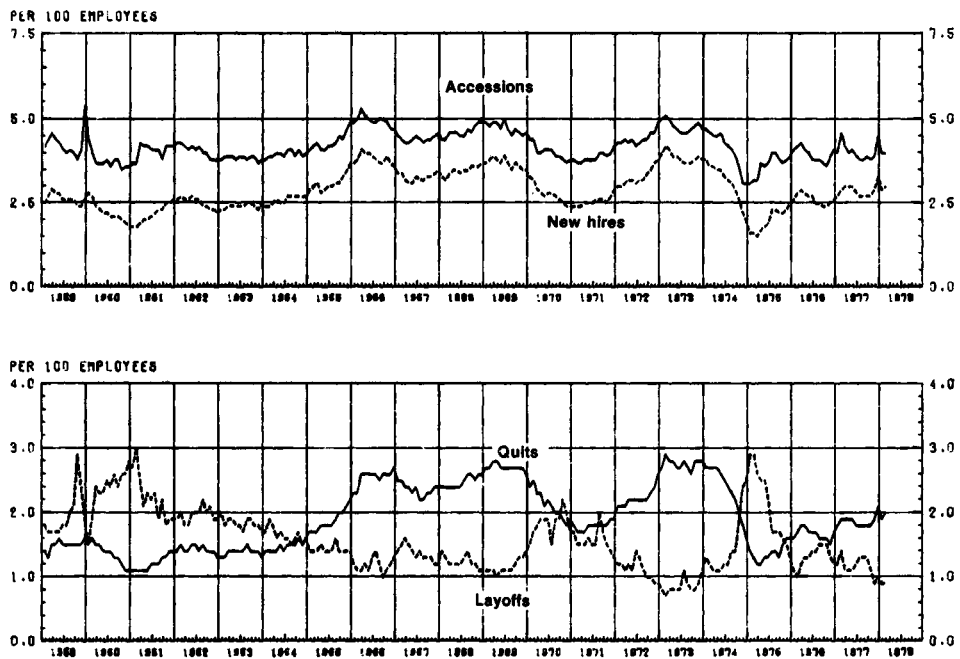
SOURCE: Tables C-7 and C-8.



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



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



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

# HOUSEHOLD DATA HISTORICAL

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

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
<b>TOTAL</b>										
<b>Annual averages</b>										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 <sup>1</sup> .....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 <sup>1</sup> .....	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 <sup>1</sup> .....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	88,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1977:</b>										
March.....	157,782	98,761	62.6	96,623	89,478	3,179	86,299	7,145	7.4	59,021
April.....	157,986	98,878	62.6	96,746	89,877	3,256	86,621	6,869	7.1	59,108
May.....	158,228	99,289	62.8	97,161	90,267	3,335	86,932	6,894	7.1	58,939
June.....	158,456	99,681	62.9	97,552	90,648	3,330	87,318	6,904	7.1	58,775
July.....	158,682	99,442	62.7	97,307	90,588	3,206	87,382	6,719	6.9	59,241
August.....	158,899	99,751	62.8	97,614	90,793	3,224	87,569	6,821	7.0	59,147
September.....	159,114	99,887	62.8	97,756	91,088	3,199	87,889	6,668	6.8	59,227
October.....	159,334	100,205	62.9	98,071	91,383	3,243	88,140	6,688	6.8	59,130
November.....	159,522	101,009	63.3	98,877	92,214	3,357	88,857	6,663	6.7	58,512
December.....	159,736	101,048	63.3	98,919	92,609	3,323	89,286	6,310	6.4	58,689
<b>1978:</b>										
January <sup>1</sup> .....	159,937	101,228	63.3	99,107	92,881	3,354	89,527	6,226	6.3	58,709
February.....	160,128	101,217	63.2	99,093	93,003	3,242	89,761	6,090	6.1	58,911
March.....	160,313	101,536	63.3	99,414	93,266	3,310	89,956	6,148	6.2	58,776

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

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

**HOUSEHOLD DATA  
HISTORICAL**

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

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>MALES</b>										
<b>Annual averages</b>										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 <sup>1</sup> .....	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 <sup>1</sup> .....	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1977:										
March.....	75,610	59,138	78.2	57,113	53,301	2,585	50,716	3,812	6.7	16,472
April.....	75,706	59,093	78.1	57,074	53,482	2,621	50,861	3,592	6.3	16,613
May.....	75,873	59,297	78.2	57,282	53,644	2,700	50,944	3,638	6.4	16,526
June.....	75,932	59,563	78.4	57,549	54,006	2,693	51,313	3,543	6.2	16,370
July.....	76,041	59,418	78.1	57,399	53,901	2,613	51,288	3,498	6.1	16,623
August.....	76,144	59,496	78.1	57,475	53,942	2,647	51,295	3,533	6.1	16,647
September.....	76,246	59,332	77.8	57,318	53,964	2,630	51,334	3,354	5.9	16,915
October.....	76,352	59,826	78.4	57,810	54,341	2,642	51,699	3,469	6.0	16,526
November.....	76,439	60,112	78.6	58,097	54,745	2,685	52,060	3,352	5.8	16,327
December.....	76,541	60,236	78.7	58,225	55,012	2,702	52,310	3,213	5.5	16,305
1978:										
January <sup>1</sup> .....	76,636	60,210	77.4	58,207	54,975	2,749	52,226	3,232	5.6	16,426
February.....	76,725	60,149	78.4	58,142	54,897	2,566	52,331	3,245	5.6	16,577
March.....	76,811	60,285	78.5	58,284	55,013	2,613	52,400	3,271	5.6	16,526
<b>FEMALES</b>										
<b>Annual averages</b>										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 <sup>1</sup> .....	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 <sup>1</sup> .....	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
1977:										
March.....	82,172	39,624	48.2	39,510	36,177	594	35,583	3,333	8.4	42,549
April.....	82,280	39,785	48.4	39,672	36,395	635	35,760	3,277	8.3	42,495
May.....	82,405	39,992	48.5	39,879	36,623	635	35,988	3,256	8.2	42,413
June.....	82,524	40,119	48.6	40,003	36,642	637	36,005	3,361	8.4	42,405
July.....	82,642	40,024	48.4	39,908	36,687	593	36,094	3,221	8.1	42,618
August.....	82,755	40,255	48.6	40,139	36,851	577	36,274	3,288	8.2	42,500
September.....	82,868	40,556	48.9	40,438	37,124	569	36,555	3,314	8.2	42,312
October.....	82,983	40,379	48.7	40,261	37,042	601	36,441	3,219	8.0	42,604
November.....	83,082	40,898	49.2	40,780	37,469	672	36,797	3,311	8.1	42,185
December.....	83,195	40,812	49.1	40,694	37,597	621	36,976	3,097	7.6	42,385
1978:										
January <sup>1</sup> .....	83,301	41,017	48.6	40,900	37,906	605	37,301	2,994	7.3	42,284
February.....	83,403	41,068	49.2	40,951	38,106	676	37,430	2,845	6.9	42,335
March.....	83,501	41,252	49.4	41,130	38,253	697	37,556	2,877	7.0	42,250

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

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

# HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	March 1978										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>MALES</b>											
16 years and over .....	59,470	77.4	57,470	53,866	3,603	6.3	17,341	295	4,729	1,750	10,567
16 to 21 years .....	8,341	65.4	7,648	6,409	1,240	16.2	4,409	17	3,928	33	431
16 to 19 years .....	4,917	58.0	4,599	3,761	838	18.2	3,566	12	3,272	14	268
16 to 17 years .....	1,953	46.0	1,934	1,503	431	22.3	2,288	6	2,153	4	126
18 to 19 years .....	2,965	69.9	2,665	2,258	408	15.3	1,278	7	1,119	11	142
20 to 64 years .....	52,696	89.3	51,013	48,349	2,665	5.2	6,300	132	1,457	1,298	3,413
20 to 24 years .....	8,573	85.1	7,831	6,930	901	11.5	1,500	10	1,072	53	364
25 to 54 years .....	37,068	94.3	36,129	34,610	1,518	4.2	2,247	65	383	686	1,113
25 to 29 years .....	8,289	94.1	7,916	7,429	486	6.1	517	5	241	64	207
30 to 34 years .....	7,439	96.5	7,195	6,890	305	4.2	267	14	72	66	116
35 to 39 years .....	5,985	96.5	5,791	5,567	224	3.9	219	4	19	65	132
40 to 44 years .....	5,168	94.9	5,078	4,914	165	3.2	278	5	25	109	139
45 to 49 years .....	5,128	93.1	5,096	4,926	169	3.3	383	22	22	149	190
50 to 54 years .....	5,060	89.7	5,054	4,884	170	3.4	582	16	4	233	329
55 to 64 years .....	7,055	73.4	7,054	6,809	245	3.5	2,553	56	3	558	1,935
55 to 59 years .....	4,375	83.0	4,373	4,211	163	3.7	894	23	2	280	589
60 to 64 years .....	2,680	61.8	2,680	2,598	82	3.1	1,659	33	1	279	1,347
65 years and over .....	1,857	19.9	1,857	1,757	100	5.4	7,474	150	--	438	6,886
65 to 69 years .....	1,062	28.6	1,062	1,005	57	5.3	2,646	42	--	167	2,437
70 years and over .....	795	14.1	795	752	43	5.5	4,828	109	--	271	4,449
<b>White</b>											
16 years and over .....	52,940	78.1	51,320	48,461	2,859	5.6	14,851	236	3,840	1,435	9,340
16 to 21 years .....	7,311	67.3	6,760	5,811	949	14.0	3,555	11	3,184	28	331
16 to 19 years .....	4,356	60.4	4,102	3,457	646	15.7	2,851	9	2,629	11	201
16 to 17 years .....	1,769	49.3	1,753	1,413	340	19.4	1,818	6	1,716	3	93
18 to 19 years .....	2,587	71.5	2,350	2,044	306	13.0	1,033	3	913	8	109
20 to 64 years .....	46,910	89.9	45,544	43,414	2,129	4.7	5,264	94	1,211	1,059	2,902
20 to 24 years .....	7,463	85.9	6,879	6,192	687	10.0	1,228	5	899	38	286
25 to 54 years .....	33,003	94.9	32,222	30,987	1,234	3.8	1,780	41	309	546	886
25 to 29 years .....	13,929	95.8	13,422	12,787	634	4.7	615	11	257	108	238
30 to 34 years .....	9,924	96.3	9,685	9,365	320	3.3	382	6	31	141	204
35 to 39 years .....	9,150	92.1	9,116	8,835	281	3.1	784	24	20	297	443
55 to 64 years .....	6,444	74.1	6,443	6,235	208	3.2	2,256	48	3	475	1,729
55 to 59 years .....	3,995	84.0	3,994	3,852	142	3.5	760	18	2	234	505
60 to 64 years .....	2,450	62.1	2,449	2,383	66	2.7	1,496	30	1	241	1,224
65 years and over .....	1,674	19.9	1,674	1,590	84	5.0	6,735	133	--	364	6,237
<b>Black and other</b>											
16 years and over .....	6,531	72.4	6,149	5,405	744	12.1	2,490	58	889	316	1,227
16 to 21 years .....	1,030	54.7	888	597	291	32.7	854	6	744	5	100
16 to 19 years .....	562	44.0	497	304	193	38.8	715	3	643	3	66
16 to 17 years .....	184	28.1	181	90	91	50.4	470	--	437	--	33
18 to 19 years .....	378	60.6	316	214	102	32.2	245	3	206	3	33
20 to 64 years .....	5,786	84.8	5,470	4,934	535	9.8	1,036	38	247	239	511
20 to 24 years .....	1,110	80.4	952	738	214	22.5	271	5	173	15	78
25 to 54 years .....	4,065	89.7	3,907	3,623	284	7.3	467	25	74	140	227
25 to 34 years .....	1,799	91.4	1,689	1,532	157	9.3	170	8	55	23	84
35 to 44 years .....	1,228	91.4	1,184	1,115	69	5.8	116	3	13	33	67
45 to 54 years .....	1,038	85.1	1,034	976	58	5.6	181	14	6	85	76
55 to 64 years .....	611	67.2	611	574	37	6.1	298	9	--	83	206
55 to 59 years .....	380	73.9	380	359	21	5.5	134	5	--	46	84
60 to 64 years .....	231	58.5	231	215	16	7.0	163	4	--	37	122
65 years and over .....	183	19.8	183	167	16	8.7	739	17	--	74	649

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	March 1978										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>FEMALES</b>											
16 years and over .....	41,095	49.2	40,974	38,098	2,876	7.0	42,406	32,786	4,614	1,135	3,872
16 to 21 years .....	6,670	53.4	6,621	5,591	1,031	15.6	5,822	1,476	3,968	20	360
16 to 19 years .....	4,010	48.3	3,991	3,281	711	17.8	4,295	730	3,321	8	237
16 to 17 years .....	1,574	38.3	1,574	1,252	322	20.5	2,534	206	2,227	5	96
18 to 19 years .....	2,436	58.0	2,418	2,029	389	16.1	1,761	524	1,093	3	141
20 to 64 years .....	35,965	58.1	35,862	33,743	2,120	5.9	25,933	22,480	1,290	499	1,663
20 to 24 years .....	6,656	66.2	6,592	5,895	697	10.6	3,403	2,184	910	36	273
25 to 54 years .....	24,825	60.4	24,788	23,499	1,289	5.2	16,271	14,855	371	244	803
25 to 29 years .....	5,733	63.8	5,706	5,310	396	6.9	3,246	2,907	179	28	132
30 to 34 years .....	4,736	59.9	4,729	4,445	284	6.0	3,175	2,929	68	33	146
35 to 39 years .....	3,975	60.9	3,972	3,766	206	5.2	2,557	2,347	46	31	133
40 to 44 years .....	3,621	62.9	3,620	3,473	147	4.1	2,135	1,950	47	42	97
45 to 49 years .....	3,463	59.5	3,462	3,322	140	4.1	2,354	2,168	28	37	121
50 to 54 years .....	3,298	54.0	3,297	3,182	115	3.5	2,804	2,554	4	73	173
55 to 64 years .....	4,484	41.7	4,484	4,349	134	3.0	6,259	5,441	10	220	588
55 to 59 years .....	2,821	48.7	2,820	2,747	73	2.6	2,971	2,627	2	109	232
60 to 64 years .....	1,663	33.6	1,663	1,602	61	3.7	3,288	2,814	7	111	355
65 years and over .....	1,120	8.4	1,120	1,074	45	4.0	12,178	9,576	3	628	1,972
65 to 69 years .....	690	14.8	690	655	35	5.1	3,984	3,301	--	107	577
70 years and over .....	429	5.0	429	419	10	2.4	8,194	6,275	4	521	1,394
<b>White</b>											
16 years and over .....	35,513	48.7	35,416	33,276	2,140	6.0	37,410	29,428	3,712	900	3,370
16 to 21 years .....	5,900	55.9	5,860	5,085	774	13.2	4,654	1,175	3,180	16	283
16 to 19 years .....	3,593	51.3	3,577	3,036	541	15.1	3,409	569	2,644	9	188
16 to 17 years .....	1,433	41.5	1,432	1,169	263	18.4	2,021	171	1,764	5	80
18 to 19 years .....	2,160	60.9	2,145	1,867	278	12.9	1,389	399	879	4	107
20 to 64 years .....	30,938	57.4	30,856	29,293	1,563	5.1	22,916	20,058	1,066	380	1,411
20 to 24 years .....	5,709	66.8	5,657	5,146	511	9.0	2,832	1,828	756	30	218
25 to 54 years .....	21,207	59.5	21,177	20,238	939	4.4	14,436	13,270	301	184	681
25 to 34 years .....	8,834	60.8	8,808	8,341	467	5.3	5,691	5,216	198	44	233
35 to 44 years .....	6,471	60.9	6,468	6,204	264	4.1	4,154	3,822	77	59	196
45 to 54 years .....	5,902	56.2	5,901	5,693	209	3.5	4,591	4,231	27	81	252
55 to 64 years .....	4,023	41.6	4,022	3,910	113	2.8	5,648	4,960	9	167	513
55 to 59 years .....	2,536	48.8	2,536	2,475	61	2.4	2,660	2,386	2	81	191
60 to 64 years .....	1,486	33.2	1,486	1,435	52	3.5	2,988	2,574	7	85	322
65 years and over .....	982	8.1	982	946	36	3.7	11,085	8,801	2	511	1,771
<b>Black and other</b>											
16 years and over .....	5,582	52.8	5,558	4,822	736	13.2	4,996	3,357	902	235	501
16 to 21 years .....	770	39.7	761	505	256	33.7	1,169	301	787	4	77
16 to 19 years .....	417	32.0	414	244	170	41.0	886	160	677	--	49
16 to 17 years .....	141	21.6	141	82	59	41.7	513	35	463	--	15
18 to 19 years .....	276	42.6	273	162	111	40.7	373	125	214	--	34
20 to 64 years .....	5,028	62.5	5,007	4,449	557	11.1	3,016	2,423	224	119	251
20 to 24 years .....	948	62.4	934	748	186	19.9	571	356	154	6	55
25 to 54 years .....	3,619	66.4	3,611	3,261	349	9.7	1,835	1,586	70	59	121
25 to 34 years .....	1,635	69.1	1,628	1,415	213	13.1	730	620	50	16	44
35 to 44 years .....	1,125	67.7	1,125	1,035	90	8.0	538	475	15	14	34
45 to 54 years .....	859	60.2	858	811	47	5.5	567	491	5	29	42
55 to 64 years .....	461	43.0	461	439	22	4.7	611	482	--	54	75
55 to 59 years .....	284	47.8	284	272	13	4.4	311	241	--	28	41
60 to 64 years .....	177	37.1	177	168	9	5.2	300	240	--	26	34
65 years and over .....	137	11.2	137	129	9	6.3	1,094	774	1	117	201

# HOUSEHOLD DATA

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
<b>MALES</b>								
16 years and over	58,421	59,470	77.3	77.4	56,396	57,470	76.6	76.8
16 to 19 years	4,804	4,917	56.6	58.0	4,471	4,599	54.8	56.3
16 to 17 years	1,838	1,953	43.4	46.0	1,812	1,934	43.0	45.8
18 to 19 years	2,966	2,965	69.7	69.9	2,659	2,665	67.3	67.6
20 to 24 years	8,424	8,573	85.2	85.1	7,679	7,831	84.0	83.9
25 to 54 years	36,374	37,068	94.2	94.3	35,428	36,129	94.0	94.1
25 to 34 years	15,343	15,728	95.4	95.2	14,726	15,110	95.2	95.1
35 to 44 years	10,820	11,152	95.8	95.7	10,531	10,869	95.6	95.6
45 to 54 years	10,210	10,188	90.8	91.3	10,171	10,149	90.7	91.3
55 to 64 years	7,051	7,055	74.4	73.4	7,049	7,054	74.4	73.4
55 to 59 years	4,298	4,375	83.2	83.0	4,297	4,373	83.2	83.0
60 to 64 years	2,753	2,680	63.9	61.8	2,753	2,680	63.9	61.8
65 years and over	1,769	1,857	19.4	19.9	1,769	1,857	19.4	19.9
<b>White</b>								
16 years and over	52,162	52,940	78.0	78.1	50,494	51,320	77.5	77.6
16 to 19 years	4,322	4,356	59.7	60.4	4,047	4,102	58.1	59.0
16 to 17 years	1,690	1,769	47.0	49.3	1,668	1,753	46.7	49.1
18 to 19 years	2,632	2,587	72.3	71.5	2,379	2,350	70.2	69.5
20 to 24 years	7,337	7,463	85.8	85.9	6,742	6,879	84.7	84.8
25 to 54 years	32,475	33,003	94.9	94.9	31,678	32,222	94.8	94.8
25 to 34 years	13,637	13,929	96.1	95.8	13,121	13,422	95.9	95.6
35 to 44 years	9,617	9,924	96.3	96.3	9,372	9,685	96.2	96.2
45 to 54 years	9,220	9,150	91.8	92.1	9,185	9,116	91.8	92.1
55 to 64 years	6,444	6,444	75.0	74.1	6,442	6,443	75.0	74.1
55 to 59 years	3,928	3,995	84.1	84.0	3,927	3,994	84.1	84.0
60 to 64 years	2,515	2,450	64.2	62.1	2,515	2,449	64.2	62.1
65 years and over	1,584	1,674	19.2	19.9	1,584	1,674	19.2	19.9
<b>Black and other</b>								
16 years and over	6,259	6,531	71.4	72.4	5,902	6,149	70.1	71.2
16 to 19 years	482	562	38.3	44.0	424	497	35.3	41.0
16 to 17 years	148	184	23.0	28.1	144	181	22.5	27.8
18 to 19 years	334	378	54.4	60.6	280	316	50.0	56.3
20 to 24 years	1,086	1,110	81.7	80.4	937	952	79.4	77.8
25 to 54 years	3,899	4,065	88.6	89.7	3,750	3,907	88.2	89.3
25 to 34 years	1,707	1,799	90.5	91.4	1,605	1,689	89.9	90.8
35 to 44 years	1,203	1,228	91.8	91.4	1,159	1,184	91.6	91.1
45 to 54 years	990	1,038	82.1	85.1	986	1,034	82.1	85.1
55 to 64 years	607	611	68.4	67.2	607	611	68.4	67.2
55 to 59 years	370	380	75.0	73.9	370	380	75.0	73.9
60 to 64 years	237	231	60.2	58.5	237	231	60.2	58.5
65 years and over	184	183	20.6	19.8	184	183	20.6	19.8

HOUSEHOLD DATA

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
<b>FEMALES</b>								
16 years and over	39,489	41,095	48.1	49.2	39,376	40,974	48.0	49.1
16 to 19 years	3,961	4,010	47.6	48.3	3,943	3,991	47.5	48.2
16 to 17 years	1,574	1,574	38.3	38.3	1,573	1,574	38.3	38.3
18 to 19 years	2,387	2,436	56.7	58.0	2,369	2,418	56.5	57.9
20 to 24 years	6,439	6,656	65.3	66.2	6,377	6,592	65.0	66.0
25 to 54 years	23,633	24,825	58.5	60.4	23,601	24,788	58.4	60.4
25 to 34 years	9,765	10,469	59.4	62.0	9,737	10,435	59.3	61.9
35 to 44 years	7,112	7,596	59.7	61.8	7,108	7,593	59.6	61.8
45 to 54 years	6,757	6,761	56.1	56.7	6,756	6,760	56.1	56.7
55 to 64 years	4,361	4,484	41.1	41.7	4,361	4,484	41.1	41.7
55 to 59 years	2,701	2,821	47.6	48.7	2,701	2,820	47.6	48.7
60 to 64 years	1,660	1,663	33.7	33.6	1,660	1,663	33.7	33.6
65 years and over	1,094	1,120	8.4	8.4	1,094	1,120	8.4	8.4
<b>White</b>								
16 years and over	34,391	35,513	47.8	48.7	34,298	35,416	47.8	48.6
16 to 19 years	3,610	3,593	51.3	51.3	3,595	3,577	51.2	51.2
16 to 17 years	1,458	1,433	42.1	41.5	1,458	1,432	42.1	41.5
18 to 19 years	2,152	2,160	60.3	60.9	2,137	2,145	60.1	60.7
20 to 24 years	5,627	5,709	67.0	66.8	5,577	5,657	66.8	66.6
25 to 54 years	20,229	21,207	57.6	59.5	20,202	21,177	57.6	59.5
25 to 34 years	8,248	8,834	58.2	60.8	8,225	8,808	58.1	60.7
35 to 44 years	6,074	6,471	59.0	60.9	6,071	6,468	58.9	60.9
45 to 54 years	5,907	5,902	55.5	56.2	5,906	5,901	55.5	56.2
55 to 64 years	3,947	4,023	41.3	41.6	3,947	4,022	41.3	41.6
55 to 59 years	2,437	2,536	47.7	48.8	2,437	2,536	47.7	48.8
60 to 64 years	1,510	1,486	33.9	33.2	1,510	1,486	33.9	33.2
65 years and over	977	982	8.3	8.1	977	982	8.3	8.1
<b>Black and other</b>								
16 years and over	5,099	5,582	49.6	52.8	5,077	5,558	49.5	52.7
16 to 19 years	351	417	27.2	32.0	348	414	27.1	31.9
16 to 17 years	116	141	17.9	21.6	116	141	17.9	21.6
18 to 19 years	235	276	36.8	42.6	232	273	36.5	42.3
20 to 24 years	812	948	55.4	62.4	800	934	55.0	62.1
25 to 54 years	3,404	3,619	64.3	66.4	3,398	3,611	64.3	66.3
25 to 34 years	1,517	1,635	67.0	69.1	1,511	1,628	66.9	69.0
35 to 44 years	1,037	1,125	64.1	67.7	1,037	1,125	64.1	67.6
45 to 54 years	850	859	60.3	60.2	850	858	60.3	60.2
55 to 64 years	414	461	39.6	43.0	414	461	39.6	43.0
55 to 59 years	264	284	46.2	47.8	264	284	46.2	47.8
60 to 64 years	150	177	31.7	37.1	150	177	31.7	37.1
65 years and over	117	137	9.9	11.2	117	137	9.9	11.2

# HOUSEHOLD DATA

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

[Numbers in thousands]

Sex and age	March 1978						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>Total</b>							
16 years and over .....	9,997	8,692	199	8,493	1,305	13.1	6,525
16 to 19 years .....	788	451	12	439	338	42.8	1,422
16 to 17 years .....	275	134	2	132	141	51.3	880
18 to 19 years .....	513	317	9	307	197	38.3	542
20 to 24 years .....	1,623	1,275	15	1,259	348	21.5	730
25 to 54 years .....	6,363	5,812	101	5,711	551	8.7	1,925
25 to 34 years .....	2,793	2,469	38	2,431	324	11.6	708
35 to 44 years .....	1,968	1,830	30	1,800	138	7.0	559
45 to 54 years .....	1,602	1,513	33	1,480	89	5.6	658
55 to 64 years .....	937	889	41	848	49	5.2	825
55 to 59 years .....	580	551	21	529	30	5.1	405
60 to 64 years .....	357	338	20	318	19	5.3	420
65 years and over .....	285	266	30	235	19	6.8	1,623
<b>Males</b>							
16 years and over .....	5,243	4,577	184	4,392	667	12.7	2,166
16 to 19 years .....	430	248	12	237	182	42.4	631
16 to 17 years .....	159	70	2	68	88	55.6	416
18 to 19 years .....	272	178	9	168	94	34.6	215
20 to 24 years .....	827	634	12	622	193	23.3	221
25 to 54 years .....	3,295	3,049	94	2,955	247	7.5	408
25 to 34 years .....	1,406	1,268	35	1,233	138	9.8	140
35 to 44 years .....	1,011	950	26	923	61	6.0	101
45 to 54 years .....	878	831	32	799	47	5.4	166
55 to 64 years .....	531	497	39	457	34	6.4	271
55 to 59 years .....	329	309	20	289	19	5.9	124
60 to 64 years .....	202	187	19	168	15	7.2	147
65 years and over .....	160	150	28	122	11	6.7	635
<b>Females</b>							
16 years and over .....	4,753	4,115	15	4,100	638	13.4	4,359
16 to 19 years .....	358	203	--	203	155	43.4	791
16 to 17 years .....	117	64	--	64	53	45.3	464
18 to 19 years .....	241	139	--	139	103	42.5	327
20 to 24 years .....	796	641	3	638	155	19.5	509
25 to 54 years .....	3,068	2,764	8	2,756	303	9.9	1,517
25 to 34 years .....	1,386	1,201	3	1,198	185	13.4	568
35 to 44 years .....	957	880	4	877	77	8.0	458
45 to 54 years .....	724	682	1	681	42	5.8	492
55 to 64 years .....	406	392	2	390	15	3.6	554
55 to 59 years .....	252	241	1	240	11	4.2	281
60 to 64 years .....	155	151	1	150	4	2.7	273
65 years and over .....	125	116	2	114	9	7.0	987

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



# HOUSEHOLD DATA

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
<b>TOTAL</b>								
Total noninstitutional population	157,782	160,313	67,114	68,327	73,852	75,196	16,816	16,790
Total labor force	97,910	100,565	53,616	54,553	35,528	37,085	8,765	8,928
Percent of population	62.1	62.7	79.9	79.8	48.1	49.3	52.1	53.2
Civilian labor force	95,771	98,443	51,925	52,870	35,433	36,982	8,414	8,591
Employed	88,215	91,964	48,599	50,106	32,850	34,817	6,766	7,041
Agriculture	2,804	2,913	2,106	2,145	402	484	297	284
Nonagricultural industries	85,411	89,051	46,494	47,961	32,448	23,333	6,469	6,758
Unemployed	7,556	6,479	3,325	2,765	2,583	2,165	1,648	1,549
Percent of labor force	7.9	6.6	6.4	5.2	7.3	5.9	19.6	18.0
Not in labor force	59,872	59,747	13,498	13,774	38,323	38,111	8,050	7,862
<b>White</b>								
Total noninstitutional population	138,732	140,714	59,602	60,584	64,861	65,921	14,269	14,209
Total labor force	86,552	88,453	47,840	48,584	30,780	31,920	7,932	7,949
Percent of population	62.4	62.9	80.3	80.2	47.5	48.4	55.6	55.9
Civilian labor force	84,792	86,736	46,447	47,218	30,704	31,838	7,641	7,680
Employed	78,685	81,737	43,723	45,004	28,661	30,239	6,301	6,493
Agriculture	2,576	2,661	1,923	1,934	370	457	282	270
Nonagricultural industries	76,109	79,076	41,800	43,070	28,291	29,782	6,019	6,223
Unemployed	6,107	4,999	2,724	2,213	2,042	1,599	1,341	1,186
Percent of labor force	7.2	5.8	5.9	5.7	6.7	5.0	17.5	15.4
Not in labor force	52,180	52,261	11,762	11,999	34,080	34,001	6,337	6,261
<b>Black and other</b>								
Total noninstitutional population	19,050	19,599	7,512	7,744	8,991	9,275	2,547	2,580
Total labor force	11,357	12,113	5,776	5,969	4,748	5,165	833	979
Percent of population	59.6	61.8	76.9	77.1	52.8	55.7	32.7	38.0
Civilian labor force	10,979	11,707	5,478	5,653	4,730	5,144	772	911
Employed	9,530	10,227	4,876	5,101	4,189	4,578	465	548
Agriculture	228	252	182	211	31	27	15	14
Nonagricultural industries	9,302	9,975	4,694	4,891	4,158	4,550	451	534
Unemployed	1,449	1,480	602	551	541	566	307	363
Percent of labor force	13.2	12.6	11.0	9.8	11.4	11.0	39.8	39.8
Not in labor force	7,692	7,486	1,736	1,775	4,243	2,110	1,713	1,601

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

(Numbers in thousands)

Employment status	March 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,243	12,751	12,492	21,419	10,866	10,553	3,823	1,885	1,939
Total labor force	15,011	8,341	6,670	13,211	7,311	5,900	1,800	1,030	770
Percent of population	59.5	65.4	53.4	61.7	67.3	55.9	47.1	54.7	39.7
Civilian labor force	14,269	7,648	6,621	12,620	6,760	5,860	1,650	888	761
Employed	11,999	6,409	5,591	10,897	5,811	5,085	1,102	597	505
Agriculture	403	332	71	384	313	71	20	19	--
Nonagricultural industries	11,596	6,077	5,519	10,513	5,499	5,014	1,083	578	505
Unemployed	2,270	1,240	1,031	1,723	949	774	547	291	256
Percent of labor force	15.9	16.2	15.6	13.7	14.0	13.2	33.2	32.7	33.7
Looking for full-time work	1,343	740	603	1,000	556	444	343	184	159
Looking for part-time work	928	500	428	724	393	331	204	107	97
Not in labor force	10,232	4,409	5,822	8,208	3,555	4,654	2,023	854	1,169
<b>MAJOR ACTIVITY: GOING TO SCHOOL</b>									
Civilian labor force	4,614	2,464	2,150	4,119	2,208	1,911	495	255	239
Employed	3,681	1,937	1,744	3,412	1,805	1,607	269	133	137
Agriculture	139	111	28	132	104	28	7	7	--
Nonagricultural industries	3,542	1,827	1,715	3,280	1,701	1,579	262	126	137
Unemployed	933	526	406	707	404	304	226	123	103
Percent of labor force	20.2	21.4	18.9	17.2	18.3	15.9	45.6	48.1	42.9
Looking for full-time work	138	71	67	83	43	40	55	28	27
Looking for part-time work	795	455	339	624	361	263	171	95	76
Not in labor force	7,895	3,928	3,968	6,364	3,184	3,180	1,532	744	787
<b>MAJOR ACTIVITY: OTHER</b>									
Civilian labor force	9,656	5,184	4,471	8,501	4,552	3,949	1,155	633	522
Employed	8,318	4,471	3,847	7,485	4,006	3,478	833	465	369
Agriculture	264	221	43	252	209	43	13	13	--
Nonagricultural industries	8,054	4,250	3,804	7,233	3,798	3,435	821	452	368
Unemployed	1,338	713	625	1,016	545	471	322	168	154
Percent of labor force	13.9	13.8	14.0	12.0	12.0	11.9	27.8	26.5	29.4
Looking for full-time work	1,205	669	536	916	513	404	289	156	133
Looking for part-time work	133	45	88	100	32	67	33	12	21
Not in labor force	2,336	481	1,855	1,845	371	1,473	492	110	381

# HOUSEHOLD DATA

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

[Numbers in thousands]

Race, sex, and age	March 1978								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time <sup>1</sup>	Unemployed (looking for part-time work)	
		Full-time schedules <sup>1</sup>	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
<b>TOTAL</b>									
Both sexes, 16 years and over	82,754	74,398	3,357	4,999	6.0	15,689	14,209	1,481	9.4
16 to 21 years	8,346	6,211	792	1,343	16.1	5,923	4,996	928	15.7
16 to 19 years	3,794	2,602	471	721	19.0	4,797	3,969	828	17.3
16 to 17 years	611	320	113	178	29.2	2,896	2,322	575	19.8
18 to 19 years	3,183	2,282	358	543	17.1	1,900	1,647	253	13.3
20 years and over	78,960	71,797	2,886	4,277	5.4	10,893	10,240	653	6.0
20 to 24 years	12,332	10,257	687	1,388	11.3	2,091	1,881	210	10.0
25 years and over	66,628	61,539	2,199	2,889	4.3	8,803	8,359	444	5.0
25 to 54 years	55,062	50,794	1,767	2,502	4.5	5,854	5,548	306	5.2
55 years and over	11,565	10,746	432	386	3.3	2,949	2,811	138	4.7
Males, 16 years and over	52,099	47,578	1,593	2,929	5.6	5,370	4,696	675	12.6
16 to 21 years	4,687	3,526	421	740	15.8	2,961	2,462	500	16.9
16 to 19 years	2,151	1,506	256	388	18.1	2,448	1,998	450	18.4
20 years and over	49,949	46,072	1,336	2,540	5.1	2,922	2,697	224	7.7
20 to 24 years	6,931	5,758	370	804	11.6	900	803	97	10.8
25 years and over	43,018	40,314	966	1,736	4.0	2,022	1,895	127	6.3
25 to 54 years	35,338	33,128	753	1,457	4.1	790	729	62	7.8
55 years and over	7,679	7,186	213	280	3.6	1,231	1,166	65	5.3
Females, 16 years and over	30,655	26,821	1,764	2,070	6.8	10,319	9,513	806	7.8
16 to 21 years	3,659	2,685	371	603	16.5	2,962	2,534	428	14.4
16 to 19 years	1,643	1,095	215	333	20.3	2,348	1,971	378	16.1
20 years and over	29,011	25,725	1,550	1,737	6.0	7,971	7,542	429	5.4
20 to 24 years	5,401	4,499	317	585	10.8	1,191	1,078	112	9.4
25 years and over	23,610	21,226	1,233	1,152	4.9	6,780	6,465	317	4.7
25 to 54 years	19,724	17,666	1,014	1,046	5.3	5,062	4,819	244	4.8
55 years and over	3,886	3,560	219	107	2.8	1,718	1,645	72	4.2
<b>White</b>									
Males, 16 years and over	46,479	42,866	1,292	2,320	5.0	4,842	4,302	539	11.1
16 to 21 years	4,077	3,174	347	556	13.6	2,683	2,290	393	14.6
16 to 19 years	1,891	1,381	218	292	15.4	2,212	1,858	354	16.0
20 years and over	44,588	41,485	1,075	2,028	4.5	2,630	2,445	185	7.0
20 to 24 years	6,056	5,149	297	610	10.1	823	746	77	9.3
25 years and over	38,532	36,335	778	1,418	3.7	1,807	1,698	108	6.0
25 to 54 years	31,523	29,753	590	1,179	3.7	700	644	56	8.0
55 years and over	7,010	6,582	188	240	3.4	1,108	1,054	53	4.8
Females, 16 years and over	26,067	23,138	1,420	1,509	5.8	9,348	8,717	632	6.8
16 to 21 years	3,187	2,437	306	444	13.9	2,673	2,342	331	12.4
16 to 19 years	1,456	1,015	188	253	17.4	2,121	1,834	287	13.5
20 years and over	24,611	22,124	1,233	1,255	5.1	7,227	6,883	344	4.8
20 to 24 years	4,606	3,938	246	423	9.2	1,051	962	89	8.4
25 years and over	20,005	18,187	986	832	4.2	6,177	5,921	255	4.1
25 to 54 years	16,512	14,957	817	739	4.5	4,665	4,464	200	4.3
55 years and over	3,492	3,230	170	94	2.7	1,512	1,456	55	3.6
<b>Black and other</b>									
Males, 16 years and over	5,621	4,711	300	609	10.8	529	393	135	25.6
16 to 21 years	610	352	74	184	30.1	278	171	107	38.4
16 to 19 years	260	125	39	97	37.1	237	140	96	40.7
20 years and over	5,360	4,587	262	512	9.6	292	253	39	13.4
20 to 24 years	875	608	73	194	22.1	77	57	21	26.7
25 years and over	4,485	3,978	188	319	7.1	214	196	18	8.4
25 to 54 years	3,816	3,374	163	278	7.3	91	85	6	6.6
55 years and over	670	603	25	41	6.1	124	112	12	9.7
Females, 16 years and over	4,587	3,682	344	561	12.2	971	796	175	18.0
16 to 21 years	472	248	64	159	33.8	289	192	97	33.5
16 to 19 years	187	81	27	80	42.6	227	137	90	39.8
20 years and over	4,400	3,602	317	482	10.9	744	659	84	11.4
20 to 24 years	795	561	71	162	20.4	140	116	24	17.0
25 years and over	3,605	3,041	245	320	8.9	604	543	61	10.1
25 to 54 years	3,212	2,709	196	307	9.6	399	355	44	11.0
55 years and over	393	330	49	13	3.3	206	188	18	8.7

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

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

[Numbers in thousands]

Family relationship	March 1978									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over .....	98,443	62.2	91,964	6,479	6.6	59,747	33,080	9,343	2,885	14,438
Husbands <sup>1</sup> .....	40,030	81.6	38,581	1,449	3.6	9,054	100	240	1,152	7,561
With employed wife .....	19,667	91.5	19,036	629	3.2	1,817	33	146	352	1,285
With unemployed wife .....	1,047	92.5	924	123	11.7	85	2	11	27	44
With wife not in labor force .....	17,961	72.8	17,338	623	3.5	6,726	34	63	731	5,898
Wives .....	22,615	47.8	21,483	1,132	5.0	24,688	22,737	295	244	1,412
With employed husband .....	19,961	53.5	19,036	925	4.6	17,338	16,254	267	80	738
With unemployed husband .....	753	54.7	630	123	16.3	623	588	4	12	20
With husband not in labor force .....	1,901	22.0	1,817	85	4.5	6,726	5,895	24	152	655
Relatives in husband-wife families .....	13,546	57.8	11,693	1,853	13.7	9,898	1,356	6,604	469	1,469
16-19 years .....	6,176	51.7	5,175	1,001	16.2	5,775	200	5,225	16	333
20-24 years .....	4,784	72.8	4,178	606	12.7	1,786	178	1,265	47	297
25 years and over .....	2,586	52.5	2,340	246	9.5	2,337	978	114	406	839
Women who head families .....	4,723	58.6	4,314	409	8.7	3,330	2,731	109	142	348
Relatives in female-headed families .....	3,887	54.8	3,152	736	18.9	3,206	822	1,467	262	655
16-19 years .....	1,302	47.9	927	375	28.8	1,416	108	1,168	5	136
20-24 years .....	1,130	69.3	914	216	19.1	500	98	262	27	112
25 years and over .....	1,455	53.0	1,311	145	10.0	1,290	616	37	230	407
Persons not living in families <sup>2</sup> .....	13,642	58.8	12,741	900	6.6	9,571	5,334	628	616	2,993

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

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

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

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
	Total, 16 years and over .....	4,215	3,603	7.5	6.3	3,341	2,876	8.5
Married, spouse present .....	1,857	1,467	4.7	3.7	1,555	1,197	6.9	5.2
Widowed, divorced, or separated .....	424	357	10.3	8.0	651	551	8.8	7.0
Single (never married) .....	1,934	1,779	15.4	13.2	1,135	1,129	11.9	11.0
White, 16 years and over .....	3,438	2,859	6.8	5.6	2,668	2,140	7.8	6.0
Married, spouse present .....	1,634	1,265	4.5	3.5	1,360	980	6.7	4.8
Widowed, divorced, or separated .....	307	250	9.2	7.0	465	383	7.8	6.1
Single (never married) .....	1,498	1,345	13.7	11.5	844	777	10.3	9.0
Black and other, 16 years and over .....	777	744	13.2	12.1	673	736	13.2	13.2
Married, spouse present .....	223	202	6.4	5.9	195	217	8.3	9.1
Widowed, divorced, or separated .....	117	108	15.1	12.1	186	168	12.9	10.5
Single (never married) .....	437	434	26.5	24.0	292	351	22.5	22.3
Total, 20 to 64 years of age .....	3,204	2,665	6.4	5.2	2,535	2,120	7.4	5.9
Married, spouse present .....	1,742	1,373	4.6	3.6	1,438	1,099	6.6	5.0
Widowed, divorced, or separated .....	396	336	10.2	8.0	598	508	9.0	7.1
Single (never married) .....	1,066	956	12.9	10.5	498	513	8.3	7.8
White, 20 to 64 years of age .....	2,620	2,129	5.8	4.7	1,995	1,563	6.7	5.1
Married, spouse present .....	1,529	1,180	4.4	3.4	1,250	897	6.4	4.5
Widowed, divorced, or separated .....	290	236	9.2	7.0	422	348	7.9	6.2
Single (never married) .....	801	714	11.4	9.2	322	317	6.5	5.9
Black and other, 20 to 64 years of age .....	585	535	11.1	9.8	539	557	11.7	11.1
Married, spouse present .....	213	192	6.4	5.8	187	202	8.2	8.7
Widowed, divorced, or separated .....	106	101	14.8	12.1	174	160	12.9	10.8
Single (never married) .....	266	242	21.6	18.4	176	196	17.9	16.4

# HOUSEHOLD DATA

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
Total	7,556	6,479	7.9	6.6	7.5	6.3	8.5	7.0
White-collar workers	2,144	1,638	4.6	3.4	3.2	2.5	5.8	4.2
Professional and technical	387	331	2.7	2.3	2.3	2.0	3.3	2.6
Managers and administrators, except farm	323	233	3.3	2.2	2.7	1.8	5.5	3.8
Sales workers	345	286	5.9	4.7	4.2	3.0	8.0	6.6
Clerical workers	1,088	787	6.4	4.5	5.8	4.7	6.6	4.5
Blue-collar workers	5,258	2,799	10.1	8.5	9.7	8.0	11.9	10.8
Craft and kindred workers	940	801	7.6	6.4	7.7	6.3	6.3	7.6
Carpenters and other construction craft	541	459	14.3	11.9	14.2	11.9	(1)	(1)
All other	399	342	4.7	3.9	4.6	3.6	5.7	7.3
Operatives, except transport	1,271	1,077	11.1	9.3	9.7	8.0	13.1	11.1
Transport equipment operatives	328	239	8.8	6.4	9.0	6.5	5.6	5.1
Nonfarm laborers	719	682	15.5	14.0	16.0	13.8	10.6	15.5
Construction laborers	215	192	25.5	20.7	25.4	20.6	(1)	(1)
All other	504	490	13.3	12.4	13.7	12.1	10.1	15.3
Service workers	1,101	1,070	8.2	7.8	7.7	7.6	8.6	8.0
Private household	58	58	4.9	4.8	(1)	(1)	4.7	4.8
All other	1,043	1,013	8.5	8.1	7.7	7.6	9.2	8.5
Farm workers	170	163	6.6	6.2	5.6	5.1	12.1	11.3
No previous work experience	884	809	--	--	--	--	--	--
16 to 19 years	678	615	--	--	--	--	--	--
20 to 24 years	141	126	--	--	--	--	--	--
25 years and over	65	67	--	--	--	--	--	--

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

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

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
Total	100.0	100.0	7.9	6.6	7.5	6.3	8.5	7.0
Nonagricultural private wage and salary workers	76.4	75.0	8.3	6.8	8.0	6.5	8.8	7.2
Mining	.6	.8	5.8	6.7	4.8	6.5	(1)	8.1
Construction	11.1	10.8	19.1	15.4	19.8	16.0	7.7	7.0
Manufacturing	22.3	20.8	7.8	6.2	6.4	5.1	10.9	8.6
Durable goods	12.7	11.4	7.5	5.7	6.4	5.1	10.9	7.6
Lumber and wood products	1.1	1.3	12.0	11.6	12.2	12.2	(1)	7.4
Furniture and fixtures	.7	.3	10.0	3.5	8.4	3.4	14.2	3.7
Stone, clay, and glass products	.9	.7	10.3	6.8	10.5	6.6	9.3	7.9
Primary metal industries	1.3	.9	7.1	4.7	6.7	4.5	10.4	6.4
Fabricated metal products	1.7	1.5	8.7	6.6	7.9	6.1	11.7	8.6
Machinery, except electrical equipment	1.7	1.4	5.2	3.7	4.4	3.5	8.1	4.5
Electrical equipment	1.9	2.0	6.8	5.8	3.9	4.7	11.2	7.3
Transportation equipment	1.9	1.8	6.8	5.5	5.8	4.7	12.0	8.3
Automobiles	.8	.8	5.0	4.1	5.3	3.5	3.6	7.5
Other transportation equipment	1.2	1.0	8.7	6.8	6.3	6.2	20.1	9.4
Instruments and related products	.4	.4	4.7	4.3	3.4	1.5	6.2	7.7
Other durable goods industries	1.0	1.1	11.2	9.4	7.4	6.4	15.8	13.3
Nondurable goods	9.6	9.5	8.2	6.9	6.3	5.1	11.0	9.5
Food and kindred products	2.5	2.5	10.1	8.6	7.5	6.6	16.5	13.6
Textile mill products	1.4	.7	10.8	4.9	9.4	4.2	12.2	5.7
Apparel and other textile products	2.1	2.3	10.9	10.6	8.8	10.6	11.5	10.5
Paper and allied products	.7	.5	7.3	4.4	4.0	3.6	18.5	7.0
Printing and publishing	.9	1.3	5.2	6.1	5.1	5.6	5.4	6.8
Chemicals and allied products	.7	.6	4.5	3.6	4.1	2.2	5.6	7.5
Rubber and plastics products	.7	.9	7.1	8.0	7.3	5.9	6.7	11.7
Other nondurable goods industries	.7	.6	8.4	6.0	6.5	3.1	11.3	10.2
Transportation and public utilities	3.7	3.4	5.7	4.2	6.0	4.2	4.6	3.9
Railroads and railway express	.4	.5	4.9	5.9	4.8	6.0	(1)	(1)
Other transportation	2.5	2.3	8.0	5.9	8.7	6.0	5.0	5.6
Communication and other public utilities	.8	.5	3.2	1.5	2.6	.9	4.3	2.7
Wholesale and retail trade	21.1	22.1	9.0	7.9	7.8	6.8	10.5	9.3
Finance, insurance, and real estate	3.0	2.4	4.8	3.1	3.8	2.7	5.5	3.4
Service industries	14.5	14.8	7.1	5.9	7.2	5.9	7.1	5.9
Professional services	6.2	6.0	5.3	4.2	4.2	3.3	5.8	4.5
All other service industries	8.3	8.8	9.6	8.2	9.8	8.2	9.4	8.2
Agricultural wage and salary workers	2.9	2.8	16.4	13.1	15.1	11.5	22.4	19.2
All other classes of workers	9.0	9.7	2.8	2.5	2.6	2.5	3.2	2.6
No previous work experience	11.7	12.5	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
<b>UNEMPLOYMENT LEVEL</b>												
Total unemployed, in thousands .....	7,556	6,479	3,325	2,765	2,583	2,165	1,648	1,549	6,107	4,999	1,449	1,480
Job losers .....	3,850	2,989	2,385	1,848	1,105	828	360	312	3,143	2,412	707	577
On layoff .....	1,174	864	737	594	325	206	112	64	1,010	788	164	76
Other job losers .....	2,676	2,125	1,648	1,254	780	623	248	249	2,133	1,624	543	501
Job leavers .....	904	851	301	346	455	355	148	149	771	728	133	123
Reentrants .....	1,918	1,833	552	486	904	874	462	473	1,521	1,292	398	541
New entrants .....	883	807	87	85	118	108	678	615	672	568	211	240
Total unemployed, percent distribution .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	50.9	46.1	71.8	66.8	42.8	38.2	21.8	20.2	51.4	48.3	48.7	38.9
On layoff .....	15.5	13.3	22.2	21.5	12.6	9.5	6.8	4.1	16.5	15.8	11.3	5.1
Other job losers .....	35.4	32.8	49.6	45.3	30.2	28.7	15.0	16.1	34.9	32.5	37.4	33.8
Job leavers .....	12.0	13.1	9.0	12.5	17.6	16.4	9.0	9.6	12.6	14.6	9.2	8.3
Reentrants .....	25.4	28.3	16.6	17.6	35.0	40.4	28.1	30.5	24.9	25.8	27.4	36.6
New entrants .....	11.7	12.5	2.6	3.1	4.6	5.0	41.1	39.7	11.0	11.4	14.6	16.2
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate .....	7.9	6.6	6.4	5.2	7.3	5.9	19.6	18.0	7.2	5.8	13.2	12.6
Job loser rate <sup>1</sup> .....	4.0	3.1	4.6	3.5	3.1	2.3	4.2	3.6	3.7	2.8	6.4	4.9
Job leaver rate <sup>1</sup> .....	.9	.9	.6	.7	1.3	1.0	1.8	1.7	.9	.8	1.2	1.0
Reentrant rate <sup>1</sup> .....	2.0	1.9	1.1	.9	2.6	2.4	5.5	5.5	1.8	1.5	3.6	4.6
New entrant rate <sup>1</sup> .....	.9	.8	.2	.2	.3	.3	8.1	7.2	.8	.7	1.9	2.0

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

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

[Percent distribution]

Reason, sex, and age	March 1978						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
Total, 16 years and over .....	6,479	100.0	39.4	33.1	27.5	15.6	11.9
Job losers .....	2,989	100.0	29.6	36.2	34.2	21.2	13.0
On layoff .....	864	100.0	36.2	38.0	25.8	20.0	5.8
Other job losers .....	2,125	100.0	26.9	35.5	37.6	21.6	16.0
Job leavers .....	851	100.0	43.2	32.3	24.4	14.3	10.1
Reentrants .....	1,833	100.0	48.6	30.6	20.8	10.3	10.5
New entrants .....	807	100.0	50.6	28.0	21.4	8.8	12.6
Males, 20 years and over .....	2,765	100.0	30.2	34.2	35.6	20.4	15.1
Job losers .....	1,848	100.0	27.3	34.9	37.8	23.2	14.6
On layoff .....	594	100.0	31.8	40.7	27.4	22.6	4.9
Other job losers .....	1,254	100.0	25.2	32.1	42.7	23.5	19.1
Job leavers .....	346	100.0	36.4	35.8	27.7	15.9	11.8
Reentrants .....	486	100.0	36.0	30.7	33.3	16.5	16.9
New entrants .....	85	100.0	35.3	32.9	31.8	1.2	30.6
Females, 20 years and over .....	2,165	100.0	42.7	32.3	25.0	13.5	11.5
Job losers .....	828	100.0	30.5	36.6	32.9	19.2	13.8
On layoff .....	206	100.0	47.3	31.2	21.5	11.7	9.8
Other job losers .....	623	100.0	25.0	38.4	36.6	21.7	14.9
Job leavers .....	355	100.0	42.0	31.3	26.8	16.1	10.7
Reentrants .....	874	100.0	53.6	29.1	17.3	7.6	9.7
New entrants .....	108	100.0	50.9	27.8	21.3	9.3	12.0
Both sexes, 16 to 19 years .....	1,549	100.0	51.1	32.2	16.8	10.1	6.7
Job losers .....	312	100.0	40.7	42.9	16.3	14.1	2.2
On layoff .....	64	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers .....	249	100.0	39.6	45.6	14.8	12.0	2.8
Job leavers .....	149	100.0	62.0	27.3	10.7	6.0	4.7
Reentrants .....	473	100.0	52.4	33.2	14.4	8.9	5.5
New entrants .....	615	100.0	52.7	27.2	20.2	9.9	10.2

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

# HOUSEHOLD DATA

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

Sex, age, and race	March 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	6,479	5,465	28.9	5.9	72.2	29.1	13.6	7.5	1.57
16 to 19 years .....	1,549	1,460	17.8	2.6	79.3	25.1	9.4	6.4	1.41
20 to 24 years .....	1,598	1,327	34.5	7.3	71.9	32.0	13.9	5.7	1.65
25 to 34 years .....	1,471	1,170	34.6	8.1	69.2	32.5	14.7	7.3	1.66
35 to 44 years .....	742	603	34.2	7.6	65.7	28.7	15.8	10.6	1.63
45 to 54 years .....	595	476	30.3	5.3	69.1	30.5	18.9	9.9	1.64
55 to 64 years .....	379	300	24.3	4.7	70.0	25.3	16.0	11.7	1.52
65 years and over .....	145	129	27.9	4.7	68.2	18.6	12.4	10.1	1.42
<b>Males, 16 years and over</b> .....	3,603	2,886	31.5	5.8	73.8	25.5	16.1	9.6	1.62
16 to 19 years .....	838	785	18.9	1.8	81.7	23.3	11.5	6.0	1.43
20 to 24 years .....	901	705	36.6	7.0	74.8	26.5	16.6	7.4	1.69
25 to 34 years .....	791	588	39.6	8.0	71.3	26.5	18.5	8.7	1.73
35 to 44 years .....	388	286	40.2	10.1	62.9	28.3	19.2	16.8	1.78
45 to 54 years .....	339	244	33.6	6.6	70.5	27.5	23.4	16.4	1.78
55 to 64 years .....	245	190	25.8	6.3	69.5	22.6	14.7	15.3	1.54
65 years and over .....	100	87	25.3	--	70.1	23.0	8.0	10.3	1.37
<b>Females, 16 years and over</b> .....	2,876	2,579	26.1	6.0	70.4	33.1	10.9	5.2	1.52
16 to 19 years .....	711	675	16.6	3.6	76.7	27.1	7.0	6.8	1.38
20 to 24 years .....	697	622	32.2	7.7	68.8	38.3	10.9	3.9	1.62
25 to 34 years .....	680	582	29.6	8.2	67.2	38.5	10.8	5.7	1.60
35 to 44 years .....	353	317	28.4	5.4	68.5	29.0	12.6	4.7	1.49
45 to 54 years .....	256	232	27.2	3.9	67.7	33.6	14.2	3.0	1.50
55 to 64 years .....	134	110	20.9	1.8	71.8	30.0	18.2	5.5	1.48
65 years and over .....	45	42	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White</b> .....	4,999	4,083	27.7	5.9	73.7	30.1	13.7	7.6	1.59
<b>Males</b> .....	2,859	2,209	30.2	6.2	74.6	26.8	15.6	9.6	1.63
<b>Females</b> .....	2,140	1,874	24.6	5.5	72.6	34.2	11.5	5.3	1.54
<b>Black and other</b> .....	1,480	1,382	32.8	5.9	67.9	26.0	13.2	7.4	1.53
<b>Males</b> .....	744	678	35.4	4.6	71.1	21.5	17.6	9.7	1.60
<b>Females</b> .....	736	705	30.2	7.1	64.5	30.1	9.1	5.1	1.46

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

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

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

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

Sex and reason	March 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	6,479	5,465	28.9	5.9	72.2	29.1	13.6	7.5	1.57
Job losers .....	2,989	2,098	39.2	8.1	68.7	29.0	17.1	8.8	1.71
Job leavers .....	851	830	28.1	5.8	77.7	31.6	11.3	5.3	1.60
Reentrants .....	1,833	1,735	23.2	4.4	71.5	30.4	11.5	8.0	1.49
New entrants .....	807	804	15.5	3.4	77.1	23.9	11.3	5.7	1.37
<b>Males, 16 years and over</b> .....	3,603	2,886	31.5	5.8	73.8	25.5	16.1	9.6	1.62
Job losers .....	2,050	1,396	38.8	8.1	70.1	25.9	18.8	11.3	1.73
Job leavers .....	414	399	32.6	6.8	79.2	27.8	12.3	6.0	1.65
Reentrants .....	747	699	25.3	3.1	74.4	26.9	13.9	10.3	1.54
New entrants .....	392	392	15.1	1.5	80.9	19.4	14.0	6.1	1.37
<b>Females, 16 years and over</b> .....	2,876	2,579	26.1	6.0	70.4	33.1	10.9	5.2	1.52
Job losers .....	939	701	39.9	8.0	66.2	35.0	13.7	3.9	1.67
Job leavers .....	437	431	23.9	5.1	76.3	35.0	10.4	4.6	1.55
Reentrants .....	1,086	1,035	21.7	5.3	69.6	32.9	10.0	6.2	1.46
New entrants .....	415	412	16.0	5.1	73.5	28.2	8.5	5.6	1.37

NOTE: See note, table A-15.

HOUSEHOLD DATA

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
Total, 16 years and over .....	7,556	6,479	100.0	100.0	5,924	4,999	100.0	100.0
Less than 5 weeks .....	2,665	2,552	35.3	39.4	1,819	1,737	30.7	34.7
5 to 14 weeks .....	2,444	2,143	32.3	33.1	1,977	1,748	33.4	35.0
5 to 10 weeks .....	1,589	1,366	21.0	21.1	1,248	1,093	21.1	21.9
11 to 14 weeks .....	854	777	11.3	12.0	729	655	12.3	13.1
15 weeks and over .....	2,448	1,784	32.4	27.5	2,128	1,514	35.9	30.3
15 to 26 weeks .....	1,178	1,014	15.6	15.6	1,033	870	17.4	17.4
27 weeks and over .....	1,270	771	16.8	11.9	1,095	643	18.5	12.9
27 to 51 weeks .....	693	439	9.2	6.8	584	368	9.9	7.4
52 weeks and over .....	577	332	7.6	5.1	511	275	8.6	5.5
Average (mean) duration, in weeks .....	15.7	13.4	--	--	17.1	14.4	--	--
Median duration, in weeks .....	9.2	7.9	--	--	10.5	9.1	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
	March 1978								Mar. 1977	Mar. 1978	Mar. 1977
Total, 16 years and over .....	6,479	2,552	2,143	1,014	771	13.4	7.9	35.3	39.4	32.4	27.5
16 to 21 years .....	2,270	1,072	763	272	163	9.6	5.7	44.3	47.2	22.4	19.2
16 to 19 years .....	1,549	791	499	156	103	8.9	4.9	47.4	51.1	21.1	16.7
20 to 24 years .....	1,598	595	612	249	142	11.8	8.1	35.1	37.3	28.1	24.4
25 to 34 years .....	1,471	562	484	251	174	13.0	8.3	32.6	38.2	35.5	28.9
35 to 44 years .....	742	251	225	131	135	17.5	10.1	31.8	33.8	33.2	35.8
45 to 54 years .....	595	191	171	139	94	16.9	11.4	31.0	32.1	41.4	39.2
55 to 64 years .....	379	116	122	68	73	20.3	10.5	22.3	30.5	48.6	37.4
65 years and over .....	145	46	30	20	49	29.1	14.2	26.2	32.0	54.6	47.7
Males, 16 years and over .....	3,603	1,232	1,237	663	471	14.9	9.5	31.4	34.2	36.1	31.5
16 to 21 years .....	1,240	525	449	174	92	10.1	6.7	41.2	42.3	24.0	21.4
16 to 19 years .....	838	396	292	97	53	9.3	5.7	46.8	47.2	19.9	17.9
20 to 24 years .....	901	278	363	167	93	13.0	9.5	29.7	30.8	33.5	28.8
25 to 34 years .....	791	265	265	169	92	14.3	10.2	27.7	33.5	39.3	33.0
35 to 44 years .....	388	98	126	78	86	20.6	12.6	28.2	25.2	38.7	42.3
45 to 54 years .....	339	95	96	83	64	18.9	13.3	26.5	28.0	46.8	43.6
55 to 64 years .....	245	69	77	55	45	21.5	11.0	20.0	28.1	52.9	40.4
65 years and over .....	100	31	17	14	38	31.0	16.5	23.9	31.4	56.6	51.7
Females, 16 years and over .....	2,876	1,319	906	351	300	11.5	6.1	40.1	45.9	27.7	22.6
16 to 21 years .....	1,031	547	314	98	71	9.0	4.7	47.9	53.1	20.5	16.4
16 to 19 years .....	711	395	207	59	50	8.5	4.5	48.2	55.6	22.4	15.3
20 to 24 years .....	697	318	249	82	49	10.1	6.2	42.1	45.5	21.1	18.8
25 to 34 years .....	680	296	219	82	82	11.6	6.4	38.9	43.6	30.5	24.1
35 to 44 years .....	353	153	99	53	49	14.2	7.0	36.0	43.3	26.8	28.7
45 to 54 years .....	256	96	74	55	30	14.2	8.6	35.9	37.5	35.6	33.4
55 to 64 years .....	134	47	45	14	29	18.0	9.3	26.1	34.8	41.8	31.7
65 years and over .....	45	15	13	7	11	24.7	11.1	(1)	(1)	(1)	(1)
White .....	4,999	2,009	1,680	769	541	12.7	7.6	35.9	40.2	31.9	26.2
Males .....	2,859	1,032	993	500	335	14.0	8.9	32.1	36.1	35.2	29.2
Females .....	2,140	978	688	269	206	11.0	6.0	40.7	45.7	27.7	22.2
Black and other .....	1,480	542	463	245	230	15.6	9.2	32.8	36.6	34.3	32.1
Males .....	744	201	244	162	137	18.3	11.8	28.3	27.0	40.1	40.2
Females .....	736	342	218	82	94	12.9	6.2	37.9	46.4	27.7	23.9
Males:											
Married, spouse present .....	1,467	405	509	331	221	16.9	11.8	26.9	27.6	41.1	37.7
Widowed, divorced, or separated .....	357	127	108	62	61	18.5	9.5	23.8	35.5	44.9	34.4
Single (never married) .....	1,779	701	621	269	188	12.5	7.7	37.4	39.4	29.4	25.7
Females:											
Married, spouse present .....	1,197	522	376	183	116	11.6	6.6	41.1	43.6	29.7	24.9
Widowed, divorced, or separated .....	551	226	195	54	75	13.3	6.7	35.3	41.1	29.8	23.4
Single (never married) .....	1,129	571	334	115	109	10.6	4.9	41.5	50.6	23.7	19.8

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

# HOUSEHOLD DATA

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
	March 1978										
<b>OCCUPATION</b>											
White-collar workers .....	1,638	625	562	229	222	13.6	8.0	37.0	38.2	32.2	27.5
Professional and managerial .....	564	172	197	83	111	17.4	10.2	34.4	30.5	36.8	34.4
Sales workers .....	286	122	92	47	25	11.3	6.7	44.0	42.8	26.3	25.1
Clerical workers .....	787	330	273	99	85	11.6	6.7	36.5	41.9	31.2	23.5
Blue-collar workers .....	2,799	969	961	538	331	14.3	9.4	30.5	34.6	36.0	31.0
Craft and kindred workers .....	801	249	285	169	98	15.4	10.5	27.3	31.2	37.7	33.3
Operatives, except transport .....	1,077	413	360	166	138	13.6	8.0	34.3	38.3	33.7	28.2
Transport equipment operatives .....	239	76	80	53	30	15.1	11.6	27.0	31.6	39.5	35.1
Nonfarm laborers .....	682	232	236	151	64	13.6	10.0	29.7	33.9	36.2	31.5
Service workers .....	1,070	475	350	137	108	12.2	6.2	37.9	44.4	28.7	22.9
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	182	77	49	47	9	11.5	7.7	38.4	42.4	35.8	30.6
Construction .....	720	205	313	155	48	12.6	10.1	28.0	28.5	39.2	28.1
Manufacturing .....	1,354	474	418	248	215	15.6	9.4	33.6	35.0	35.3	34.2
Durable goods .....	739	255	210	150	125	15.8	9.9	29.7	34.5	38.6	37.1
Nondurable goods .....	615	218	208	98	91	15.5	8.9	38.7	35.5	30.9	30.7
Transportation and public utilities .....	236	74	77	49	36	15.0	10.6	33.1	31.4	33.8	35.8
Wholesale and retail trade .....	1,439	623	506	166	143	12.1	6.6	35.9	43.3	29.4	21.5
Finance and service industries .....	1,403	567	441	219	177	13.5	7.5	36.6	40.4	32.9	28.2
Public administration .....	165	57	57	35	17	13.3	9.7	20.8	34.3	39.6	31.4
No previous work experience .....	809	410	226	71	102	12.1	4.9	43.8	50.7	24.0	21.4

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

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

(In thousands)

Age and type of industry	Total		Males		Females	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
<b>All industries</b> .....	88,215	91,964	52,180	53,866	36,035	38,098
16 to 19 years .....	6,766	7,041	3,581	3,761	3,184	3,281
16 to 17 years .....	2,598	2,755	1,379	1,503	1,219	1,252
18 to 19 years .....	4,168	4,287	2,203	2,258	1,965	2,029
20 to 24 years .....	12,329	12,825	6,700	6,930	5,629	5,895
25 to 54 years .....	55,548	58,109	33,529	34,610	22,019	23,499
25 to 34 years .....	22,706	24,074	13,741	14,319	8,965	9,755
35 to 44 years .....	16,746	17,720	10,050	10,481	6,696	7,239
45 to 54 years .....	16,096	16,314	9,739	9,810	6,358	6,504
55 to 64 years .....	10,879	11,158	6,723	6,809	4,156	4,349
55 to 59 years .....	6,695	6,958	4,116	4,211	2,579	2,747
60 to 64 years .....	4,184	4,200	2,607	2,598	1,577	1,602
65 years and over .....	2,693	2,831	1,647	1,757	1,046	1,074
<b>Nonagricultural industries</b> .....	85,411	89,051	49,824	51,481	35,588	37,570
16 to 19 years .....	6,469	6,758	3,330	3,520	3,139	3,238
16 to 17 years .....	2,443	2,612	1,253	1,389	1,190	1,223
18 to 19 years .....	4,026	4,146	2,077	2,132	1,949	2,014
20 to 24 years .....	12,025	12,531	6,440	6,708	5,585	5,822
25 to 54 years .....	54,134	56,590	32,383	33,395	21,752	23,195
25 to 34 years .....	22,230	23,508	13,354	13,864	8,876	9,645
35 to 44 years .....	16,335	17,262	9,708	10,110	6,627	7,152
45 to 54 years .....	15,569	15,819	9,321	9,421	6,248	6,398
55 to 64 years .....	10,413	10,653	6,321	6,381	4,092	4,272
55 to 59 years .....	6,431	6,679	3,892	3,990	2,539	2,689
60 to 64 years .....	3,982	3,974	2,429	2,391	1,552	1,583
65 years and over .....	2,370	2,520	1,349	1,476	1,020	1,044
<b>Agriculture</b> .....	2,804	2,913	2,357	2,385	447	527
16 to 19 years .....	297	284	251	241	45	43
16 to 17 years .....	155	143	126	114	29	28
18 to 19 years .....	142	141	126	126	16	15
20 to 24 years .....	304	294	260	222	44	72
25 to 54 years .....	1,413	1,519	1,146	1,215	267	304
25 to 34 years .....	476	566	386	455	89	111
35 to 44 years .....	410	458	342	370	69	87
45 to 54 years .....	528	495	418	389	109	106
55 to 64 years .....	466	505	402	427	64	78
55 to 59 years .....	264	279	224	221	40	58
60 to 64 years .....	202	226	178	206	25	20
65 years and over .....	323	311	298	281	26	31



## A-21. Employed persons by occupation, sex, and age

[In thousands]

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
<b>TOTAL</b> .....	88,215	91,964	48,599	50,106	32,850	34,817	3,581	3,761	3,184	3,281
<b>White-collar workers</b> .....	44,621	46,915	21,105	21,945	21,310	22,691	607	605	1,600	1,675
Professional and technical .....	13,721	14,327	7,745	8,101	5,795	6,065	73	79	109	82
Health workers .....	2,344	2,550	818	894	1,511	1,637	4	1	11	19
Teachers, except college .....	3,285	3,169	983	950	2,261	2,200	5	4	36	15
Other professional and technical .....	8,092	8,608	5,944	6,257	2,023	2,228	64	74	62	48
Managers and administrators, except farm .....	9,476	10,118	7,361	7,692	2,039	2,329	51	63	26	35
Salaried workers .....	7,717	8,235	5,999	6,247	1,647	1,903	49	51	20	35
Self-employed workers in retail trade .....	890	929	629	648	254	280	2	1	6	--
Self-employed workers, except retail trade .....	869	954	732	797	137	146	--	10	--	--
Sales workers .....	5,544	5,865	2,893	3,040	2,031	2,210	238	224	382	391
Retail trade .....	2,992	3,074	876	914	1,570	1,628	195	166	352	366
Other industries .....	2,551	2,792	2,018	2,126	461	583	43	57	30	26
Clerical workers .....	15,880	16,604	3,107	3,111	11,445	12,087	245	239	1,083	1,167
Stenographers, typists, and secretaries .....	4,462	4,644	65	57	4,080	4,243	4	11	313	334
Other clerical workers .....	11,418	11,960	3,042	3,054	7,365	7,844	241	228	770	833
<b>Blue-collar workers</b> .....	28,911	29,988	21,829	22,511	4,869	5,129	1,883	1,987	329	361
Craft and kindred workers .....	11,393	11,780	10,429	10,763	557	622	380	370	27	24
Carpenters .....	1,047	1,114	970	1,048	7	15	69	49	--	2
Construction craft, except carpenters .....	2,207	2,289	2,129	2,191	11	22	66	76	1	1
Mechanics and repairers .....	3,080	3,220	2,895	3,041	42	34	142	144	--	--
Metal craft .....	1,228	1,186	1,159	1,125	47	33	21	28	1	--
Blue-collar worker supervisors, not elsewhere classified .....	1,533	1,628	1,391	1,470	116	144	22	13	3	1
All other .....	2,299	2,343	1,883	1,888	334	375	60	61	23	19
Operatives, except transport .....	10,193	10,529	5,614	5,672	3,779	3,959	588	633	212	266
Durable goods manufacturing .....	4,445	4,694	2,812	2,914	1,419	1,498	155	180	61	101
Nondurable goods manufacturing .....	3,438	3,376	1,372	1,299	1,856	1,854	102	103	109	121
Other industries .....	2,309	2,460	1,431	1,460	504	606	331	350	43	43
Transport equipment operatives .....	3,410	3,481	3,008	3,060	232	230	155	183	15	8
Drivers, motor vehicles .....	2,844	2,938	2,490	2,557	217	217	124	156	14	8
All other .....	566	543	518	503	15	13	32	27	1	--
Nonfarm laborers .....	3,915	4,198	2,778	3,017	302	318	760	801	75	63
Construction .....	629	736	518	613	5	7	105	115	1	1
Manufacturing .....	1,028	1,002	771	772	121	122	125	99	11	8
Other industries .....	2,259	2,460	1,489	1,632	176	189	530	587	63	53
<b>Service workers</b> .....	12,288	12,605	3,832	3,811	6,365	6,624	868	960	1,223	1,210
Private household workers .....	1,121	1,141	24	14	849	872	12	18	236	237
Service workers, except private household .....	11,167	11,464	3,808	3,798	5,516	5,752	857	942	987	972
Food service workers .....	4,018	4,190	751	728	2,090	2,154	511	601	666	707
Protective service workers .....	1,342	1,341	1,207	1,210	105	108	26	20	3	3
All other .....	5,807	5,933	1,850	1,860	3,321	3,490	320	321	318	262
<b>Farm workers</b> .....	2,395	2,456	1,833	1,838	306	373	223	209	33	36
Farmers and farm managers .....	1,373	1,359	1,272	1,261	85	82	13	16	4	--
Farm laborers and supervisors .....	1,022	1,097	562	577	221	291	210	193	29	36
Paid workers .....	799	845	532	542	94	126	154	151	18	26
Unpaid family workers .....	223	252	29	36	127	165	56	42	11	10

# HOUSEHOLD DATA

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
<b>TOTAL</b>						
Total employed (thousands)	88,215	91,964	52,180	53,866	36,035	38,098
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.6	51.0	41.6	41.9	63.6	64.0
Professional and technical	15.6	15.6	15.0	15.2	16.4	16.1
Managers and administrators, except farm	10.7	11.0	14.2	14.4	5.7	6.2
Sales workers	6.3	6.4	6.0	6.1	6.7	6.8
Clerical workers	18.0	18.1	6.4	6.2	34.8	34.8
Blue-collar workers	32.8	32.6	45.4	45.5	14.4	14.4
Craft and kindred workers	12.9	12.8	20.7	20.7	1.6	1.7
Operatives, except transport	11.6	11.4	11.9	11.7	11.1	11.1
Transport equipment operatives	3.9	3.8	6.1	6.0	.7	.6
Nonfarm laborers	4.4	4.6	6.8	7.1	1.0	1.0
Service workers	13.9	13.7	9.0	8.9	21.1	20.6
Private household workers	1.3	1.2	.1	.1	3.0	2.9
Other service workers	12.7	12.5	8.9	8.8	18.0	17.7
Farm workers	2.7	2.7	3.9	3.8	.9	1.1
Farmers and farm managers	1.6	1.5	2.5	2.4	.2	.2
Farm laborers and supervisors	1.2	1.2	1.5	1.4	.7	.9
<b>White</b>						
Total employed (thousands)	78,685	81,737	47,055	48,461	31,630	33,276
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.5	52.9	43.3	43.6	66.1	66.3
Professional and technical	16.0	16.1	15.5	15.9	16.7	16.5
Managers and administrators, except farm	11.4	11.8	15.0	15.3	6.1	6.7
Sales workers	6.8	6.9	6.4	6.5	7.3	7.5
Clerical workers	18.3	18.1	6.4	6.0	36.1	35.7
Blue-collar workers	32.3	32.0	44.6	44.5	13.9	13.9
Craft and kindred workers	13.5	13.3	21.4	21.2	1.7	1.8
Operatives, except transport	11.1	11.0	11.5	11.3	10.4	10.5
Transport equipment operatives	3.7	3.6	5.7	5.7	.7	.7
Nonfarm laborers	4.1	4.1	6.0	6.3	1.1	1.0
Service workers	12.5	12.4	8.0	8.0	19.1	18.7
Private household workers	.9	.9	.1	.1	2.2	2.2
Other service workers	11.6	11.4	8.0	8.0	16.9	16.4
Farm workers	2.8	2.7	4.0	3.8	1.0	1.1
Farmers and farm managers	1.7	1.6	2.6	2.5	.3	.2
Farm laborers and supervisors	1.1	1.1	1.4	1.3	.7	.9
<b>Black and other</b>						
Total employed (thousands)	9,530	10,227	5,125	5,405	4,405	4,822
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	34.9	36.1	25.8	25.9	45.4	47.6
Professional and technical	12.0	11.4	10.1	9.2	14.2	13.9
Managers and administrators, except farm	5.1	4.9	6.6	6.7	3.4	2.9
Sales workers	2.3	2.4	2.2	2.3	2.5	2.5
Clerical workers	15.5	17.4	6.9	7.8	25.5	28.2
Blue-collar workers	37.1	37.2	53.1	54.2	18.5	18.2
Craft and kindred workers	8.5	9.1	14.7	16.0	1.3	1.3
Operatives, except transport	15.6	15.3	15.2	15.2	16.1	15.3
Transport equipment operatives	5.3	5.0	9.6	9.1	.3	.4
Nonfarm laborers	7.6	7.9	13.6	13.8	.7	1.2
Service workers	25.9	24.5	17.8	16.3	35.4	33.7
Private household workers	4.4	3.7	.2	.1	9.2	7.7
Other service workers	21.6	20.9	17.6	16.2	26.3	26.1
Farm workers	2.1	2.2	3.4	3.6	.7	.5
Farmers and farm managers	.5	.5	.8	.9	(1)	.1
Farm laborers and supervisors	1.7	1.7	2.6	2.7	.6	.5

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

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

[In thousands]

Age and sex	March 1978								
	Nonagricultural industries						Agriculture		
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	82,180	1,253	15,472	65,455	6,305	566	1,206	1,434	273
16 to 19 years	6,636	286	513	5,837	83	39	212	19	53
16 to 17 years	2,551	189	169	2,193	38	22	106	4	33
18 to 19 years	4,085	97	344	3,644	45	16	106	14	20
20 to 24 years	12,191	106	1,571	10,514	305	34	197	81	16
25 to 34 years	21,990	147	4,543	17,300	1,419	100	300	214	52
35 to 44 years	15,723	129	3,353	12,241	1,395	145	154	263	40
45 to 54 years	14,253	183	3,170	10,901	1,425	141	145	288	61
55 to 64 years	9,441	240	2,029	7,172	1,132	80	142	332	32
55 to 59 years	5,987	121	1,321	4,546	640	52	82	174	24
60 to 64 years	3,453	119	708	2,626	492	29	60	158	8
65 years and over	1,946	162	293	1,491	545	29	56	237	18
Males, 16 years and over	46,918	108	7,759	39,051	4,499	64	967	1,339	79
16 to 19 years	3,441	43	229	3,169	54	26	179	19	43
16 to 17 years	1,353	29	74	1,250	23	12	83	4	27
18 to 19 years	2,088	14	155	1,920	30	13	96	14	16
20 to 24 years	6,485	24	645	5,817	208	15	144	71	7
25 to 34 years	12,893	3	2,296	10,594	967	4	246	197	13
35 to 44 years	9,135	--	1,705	7,430	975	--	123	245	2
45 to 54 years	8,344	4	1,635	6,705	1,075	2	116	273	1
55 to 64 years	5,538	18	1,093	4,426	842	2	111	312	4
55 to 59 years	3,519	5	708	2,806	469	2	60	158	3
60 to 64 years	2,018	13	385	1,620	373	--	51	154	1
65 years and over	1,082	16	156	910	379	15	48	222	10
Females, 16 years and over	35,262	1,145	7,713	26,404	1,805	502	239	95	193
16 to 19 years	3,195	243	285	2,667	30	13	33	--	10
16 to 17 years	1,198	159	96	943	15	10	23	--	6
18 to 19 years	1,997	84	189	1,724	15	3	11	--	4
20 to 24 years	5,706	83	926	4,697	98	19	53	10	9
25 to 34 years	9,097	144	2,247	6,706	452	95	54	17	39
35 to 44 years	6,588	129	1,648	4,811	420	144	31	18	38
45 to 54 years	5,910	179	1,535	4,196	350	139	29	16	61
55 to 64 years	3,903	222	936	2,746	290	79	31	19	27
55 to 59 years	2,468	115	613	1,740	171	50	22	16	20
60 to 64 years	1,435	106	323	1,006	119	29	9	4	7
65 years and over	864	146	137	581	166	14	7	15	8

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

[In thousands]

Industry	March 1978											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture	2,913	58	28	15	70	56	22	38	165	--	6	2,456
Mining	763	82	70	17	91	204	214	47	31	--	8	--
Construction	5,399	155	716	35	380	2,951	262	138	736	--	26	--
Manufacturing	20,947	2,143	1,493	494	2,415	4,092	8,070	819	1,002	--	418	--
Durable goods	12,463	1,413	889	168	1,395	2,693	4,694	380	589	--	241	--
Non-durable goods	8,483	730	604	326	1,021	1,398	3,376	439	413	--	178	--
Transportation and public utilities	6,101	523	583	31	1,352	1,294	144	1,443	526	--	205	--
Wholesale and retail trade	18,739	391	3,654	3,854	3,236	1,409	1,042	727	1,137	--	3,290	--
Wholesale trade	3,450	128	730	780	727	294	173	336	246	--	36	--
Retail trade	15,289	262	2,924	3,074	2,509	1,115	869	391	891	--	3,254	--
Finance, insurance, and real estate	5,319	278	1,038	1,260	2,338	90	6	7	56	--	246	--
Services	26,771	9,769	1,863	161	4,893	1,388	708	194	424	1,141	6,229	--
Private households	1,288	5	--	--	10	6	2	--	65	1,141	59	--
Other service industries	25,483	9,764	1,863	161	4,883	1,382	706	194	359	--	6,170	--
Public administration	5,012	929	673	--	1,828	297	62	67	121	--	1,036	--

# HOUSEHOLD DATA

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

[In thousands]

Reason not working	All industries		Nonagricultural industries					
			Total		Wage and salary workers <sup>1</sup>			
					Paid absences <sup>2</sup>		Unpaid absences <sup>2</sup>	
	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978	Mar. 1977	Mar. 1978
Total .....	3,588	4,022	3,425	3,876	1,423	1,569	1,577	1,817
Vacation .....	1,095	1,372	1,038	1,356	692	854	244	338
Illness .....	1,546	1,431	1,506	1,387	619	542	751	748
Bad weather .....	139	254	116	209	--	--	--	--
Industrial dispute .....	79	157	79	157	--	--	--	--
All other reasons .....	728	805	686	767	112	174	582	732
<b>Males</b> .....	2,062	2,352	1,920	2,231	905	990	736	933
Vacation .....	664	798	612	785	450	549	91	132
Illness .....	883	814	851	774	397	355	365	365
All other reasons <sup>3</sup> .....	515	740	457	672	59	87	279	436
<b>Females</b> .....	1,526	1,669	1,505	1,644	518	578	842	885
Vacation .....	431	574	426	571	242	305	152	205
Illness .....	662	618	655	612	222	187	387	383
All other reasons <sup>3</sup> .....	432	477	425	461	53	86	303	297

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

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

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

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

Hours of work	March 1978					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total at work .....	87,942	85,175	2,767	100.0	100.0	100.0
1-34 hours .....	21,159	20,229	931	24.1	23.7	33.7
1-4 hours .....	852	797	55	1.0	.9	2.0
5-14 hours .....	4,420	4,187	233	5.0	4.9	8.4
15-29 hours .....	10,385	9,929	457	11.8	11.7	16.5
30-34 hours .....	5,502	5,316	186	6.3	6.2	6.7
35 hours and over .....	66,782	64,946	1,835	75.9	76.3	66.3
35-39 hours .....	6,492	6,345	146	7.4	7.4	5.3
40 hours .....	36,636	36,189	447	41.7	42.5	16.2
41 hours and over .....	23,654	22,412	1,242	26.9	26.3	44.9
41 to 48 hours .....	9,695	9,484	211	11.0	11.1	7.6
49 to 59 hours .....	7,759	7,424	335	8.8	8.7	12.1
60 hours and over .....	6,200	5,504	696	7.1	6.5	25.2
Average hours, total at work .....	38.7	38.5	42.6	--	--	--
Average hours, workers on full-time schedules .....	43.2	43.0	51.6	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	March 1978					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total .....	21,159	6,016	15,144	20,229	5,656	14,573
Economic reasons .....	3,357	1,431	1,926	3,116	1,254	1,862
Slack work .....	1,648	1,053	595	1,452	890	562
Material shortages or repairs to plant and equipment .....	105	105	--	104	104	--
New job started during week .....	209	209	--	196	196	--
Job terminated during week .....	64	64	--	64	64	--
Could find only part-time work .....	1,331	--	1,331	1,299	--	1,299
Other reasons .....	17,801	4,584	13,217	17,113	4,402	12,711
Does not want, or unavailable for, full-time work .....	11,427	--	11,427	11,035	--	11,035
Vacation .....	704	704	--	704	704	--
Illness .....	1,875	1,672	203	1,828	1,652	176
Bad weather .....	563	563	--	429	429	--
Industrial dispute .....	19	19	--	19	19	--
Legal or religious holiday .....	152	152	--	152	152	--
Full time for this job .....	1,135	--	1,135	1,095	--	1,095
All other reasons .....	1,926	1,474	452	1,849	1,445	404
Average hours:						
Economic reasons .....	22.0	24.5	20.1	22.1	24.9	20.2
Other reasons .....	20.2	26.1	18.1	20.2	26.3	18.1
Worked 30 to 34 hours:						
Economic reasons .....	1,083	653	430	1,028	612	416
Other reasons .....	4,419	2,435	1,984	4,288	2,370	1,918

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

[Numbers in thousands]

Industry	March 1978								
	Total at work	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules
		On part time for economic reasons	On voluntary part time	On full-time schedules					
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total <sup>1</sup> .....	85,175	3,116	12,711	69,348	46,936	9,484	12,928	38.5	43.0
Wage and salary workers .....	78,756	2,800	11,435	64,521	44,901	8,925	10,695	38.3	42.5
Construction .....	4,122	264	204	3,654	2,743	388	523	39.0	41.4
Manufacturing .....	19,756	501	689	18,566	12,613	3,114	2,839	41.2	42.5
Durable goods .....	11,749	181	281	11,287	7,531	1,961	1,795	41.9	42.7
Nondurable goods .....	8,007	318	408	7,281	5,084	1,152	1,045	40.3	42.2
Transportation and public utilities .....	5,581	160	409	5,012	3,508	607	897	40.8	43.2
Wholesale and retail trade .....	16,126	772	4,314	11,040	6,925	1,900	2,215	35.8	43.3
Finance, insurance, and real estate .....	4,695	94	464	4,137	3,063	455	619	39.2	41.8
Service industries .....	23,027	920	5,115	16,992	12,115	1,939	2,938	36.0	42.5
Private households .....	1,214	143	717	354	265	39	50	21.8	42.5
All other industries .....	21,813	777	4,398	16,638	11,850	1,900	2,888	36.8	42.5
Public administration .....	4,827	81	234	4,512	3,564	442	506	39.8	41.4
Self-employed workers .....	5,854	303	1,025	4,526	1,884	519	2,123	41.9	49.3
Unpaid family workers .....	566	12	251	303	151	41	111	35.6	46.5

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

# HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, race, and marital status	March 1978							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Both sexes, 16 years and over .....	85,175	3,116	12,711	69,348	46,936	22,412	38.5	43.0
16 to 21 years .....	11,160	759	4,580	5,821	4,459	1,362	29.4	40.8
16 to 19 years .....	6,511	451	3,642	2,418	1,876	542	25.4	40.5
16 to 17 years .....	2,533	109	2,148	276	245	31	17.8	37.9
18 to 19 years .....	3,978	342	1,494	2,142	1,631	511	30.3	40.8
20 years and over .....	78,664	2,664	9,068	66,932	45,061	21,871	39.6	43.1
20 to 24 years .....	12,054	660	1,707	9,687	7,258	2,429	37.0	41.3
25 years and over .....	66,611	2,005	7,362	57,244	37,802	19,442	40.0	43.3
25 to 44 years .....	39,212	1,227	3,644	34,341	22,232	12,109	40.6	43.5
45 to 64 years .....	25,088	689	2,530	21,869	14,830	7,039	40.3	43.2
65 years and over .....	2,310	90	1,188	1,032	738	294	27.9	42.3
<b>Males, 16 years and over .....</b>	<b>49,250</b>	<b>1,405</b>	<b>3,992</b>	<b>43,853</b>	<b>26,506</b>	<b>17,347</b>	<b>41.7</b>	<b>44.4</b>
16 to 21 years .....	5,854	395	2,214	3,245	2,266	979	31.1	41.9
16 to 19 years .....	3,385	240	1,787	1,358	963	395	27.0	41.3
16 to 17 years .....	1,337	65	1,087	185	164	21	19.4	37.6
18 to 19 years .....	2,048	175	700	1,173	798	375	32.0	41.9
20 years and over .....	45,865	1,164	2,205	42,496	25,545	16,951	42.7	44.5
20 to 24 years .....	6,487	349	746	5,392	3,663	1,729	38.7	42.6
25 years and over .....	39,378	814	1,459	37,105	21,883	15,222	43.4	44.8
25 to 44 years .....	23,109	531	453	22,125	12,625	9,500	44.1	45.2
45 to 64 years .....	14,934	242	406	14,286	8,770	5,516	43.4	44.4
65 years and over .....	1,334	41	601	692	486	206	29.9	42.6
<b>Females, 16 years and over .....</b>	<b>35,926</b>	<b>1,711</b>	<b>8,719</b>	<b>25,496</b>	<b>20,430</b>	<b>5,066</b>	<b>34.2</b>	<b>40.5</b>
16 to 21 years .....	5,306	364	2,366	2,576	2,193	383	27.6	39.5
16 to 19 years .....	3,126	210	1,855	1,061	915	146	23.7	39.5
16 to 17 years .....	1,196	45	1,061	90	79	11	16.1	38.4
18 to 19 years .....	1,931	166	795	970	833	137	28.4	39.6
20 years and over .....	32,800	1,501	6,863	24,436	19,517	4,919	35.2	40.5
20 to 24 years .....	5,567	310	961	4,296	3,596	700	35.1	39.7
25 years and over .....	27,233	1,190	5,903	20,140	15,920	4,220	35.3	40.7
25 to 44 years .....	16,102	697	3,190	12,215	9,605	2,610	35.6	40.6
45 to 64 years .....	10,154	447	2,125	7,582	6,059	1,523	35.7	40.9
65 years and over .....	976	49	587	340	252	88	25.2	41.7
<b>RACE</b>								
White .....	75,661	2,518	11,654	61,489	40,474	21,015	38.7	43.3
Males .....	44,319	1,147	3,667	39,505	23,122	16,383	42.0	44.8
Females .....	31,343	1,371	7,986	21,986	17,352	4,634	34.1	40.6
Black and other .....	9,514	598	1,057	7,859	6,462	1,397	37.0	40.7
Males .....	4,931	258	324	4,349	3,384	965	39.0	41.6
Females .....	4,583	340	732	3,511	3,079	432	34.8	39.6
<b>MARITAL STATUS</b>								
<b>Males:</b>								
Married, spouse present .....	34,713	624	1,129	32,960	19,132	13,828	43.7	44.9
Widowed, divorced, or separated .....	3,709	155	183	3,371	2,085	1,286	41.9	44.1
Single (never married) .....	10,827	626	2,679	7,522	5,289	2,233	35.1	42.5
<b>Females:</b>								
Married, spouse present .....	20,347	917	5,008	14,422	11,783	2,639	34.3	40.3
Widowed, divorced, or separated .....	6,893	354	1,081	5,458	4,152	1,306	36.7	41.1
Single (never married) .....	8,686	441	2,630	5,615	4,494	1,121	32.0	40.4

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

(Numbers in thousands)

Occupational group and sex	March 1978								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full- time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
<b>TOTAL</b>									
White-collar workers . . . . .	45,119	998	6,649	37,472	24,567	4,749	8,156	39.3	43.5
Professional and technical . . . . .	13,308	252	1,625	11,931	7,514	1,567	2,850	40.4	43.9
Managers and administrators, except farm . . . . .	9,700	110	426	9,164	4,340	1,397	3,427	45.8	47.3
Sales workers . . . . .	5,609	173	1,558	3,878	2,302	503	1,073	36.0	44.2
Clerical workers . . . . .	16,002	463	3,039	12,500	10,412	1,281	807	35.6	40.0
Blue-collar workers . . . . .	28,437	1,326	2,095	25,016	17,149	3,974	3,893	39.9	42.5
Craft and kindred workers . . . . .	11,143	366	405	10,372	6,825	1,714	1,833	41.4	43.0
Operatives, except transport . . . . .	10,025	502	598	8,925	6,448	1,478	999	39.5	41.6
Transport equipment operatives . . . . .	3,282	167	320	2,795	1,567	446	782	41.8	45.5
Nonfarm laborers . . . . .	3,988	292	772	2,924	2,310	335	279	34.9	40.8
Service workers . . . . .	12,049	818	4,067	7,164	5,422	782	960	32.2	42.1
Private household . . . . .	1,100	125	644	331	251	33	47	22.2	42.2
Other service workers . . . . .	10,949	693	3,423	6,833	5,171	749	913	33.3	42.1
<b>Males</b>									
White-collar workers . . . . .	21,799	280	1,479	20,040	10,652	2,857	6,531	43.8	46.1
Professional and technical . . . . .	7,922	91	499	7,332	4,208	928	2,196	43.4	45.4
Managers and administrators, except farm . . . . .	7,454	67	171	7,216	3,083	1,114	3,019	47.4	48.3
Sales workers . . . . .	3,171	47	430	2,694	1,365	385	944	41.8	46.1
Clerical workers . . . . .	3,252	76	379	2,797	1,993	431	373	38.9	42.2
Blue-collar workers . . . . .	23,214	969	1,501	20,744	13,713	3,368	3,663	40.6	43.0
Craft and kindred workers . . . . .	10,531	347	297	9,887	6,469	1,625	1,793	41.7	43.1
Operatives, except transport . . . . .	6,005	206	325	5,474	3,630	1,007	837	40.8	42.6
Transport equipment operatives . . . . .	3,061	147	206	2,708	1,500	432	776	42.8	45.6
Nonfarm laborers . . . . .	3,617	268	672	2,677	2,116	304	257	35.0	40.8
Service workers . . . . .	4,554	181	1,061	3,312	2,297	395	620	36.5	43.7
Private household . . . . .	31	6	20	5	5	--	--	11.6	41.7
Other service workers . . . . .	4,523	175	1,041	3,307	2,292	395	620	36.7	43.7
<b>Females</b>									
White-collar workers . . . . .	23,321	717	5,169	17,435	13,919	1,892	1,624	35.1	40.5
Professional and technical . . . . .	5,887	160	1,126	4,601	3,307	640	654	36.3	41.6
Managers and administrators, except farm . . . . .	2,246	43	255	1,948	1,257	283	408	40.7	43.8
Sales workers . . . . .	2,437	126	1,128	1,183	934	119	130	28.6	40.1
Clerical workers . . . . .	12,751	389	2,661	9,701	8,418	850	433	34.7	39.4
Blue-collar workers . . . . .	5,223	358	594	4,271	3,435	606	230	36.8	40.1
Craft and kindred workers . . . . .	612	19	107	486	357	89	40	36.8	41.0
Operatives, except transport . . . . .	4,020	294	273	3,453	2,821	471	161	37.6	39.9
Transport equipment operatives . . . . .	221	21	114	86	65	14	7	28.0	41.6
Nonfarm laborers . . . . .	371	23	100	248	194	32	22	33.1	40.4
Service workers . . . . .	7,494	637	3,006	3,851	3,124	387	340	29.7	40.6
Private household . . . . .	1,068	119	623	326	245	33	48	22.5	42.2
Other service workers . . . . .	6,426	518	2,382	3,526	2,879	354	293	30.9	40.5

# HOUSEHOLD DATA

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

[Numbers in thousands]

Employment status	March 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population .....	8,198	4,174	4,025	6,883	3,513	3,370	1,315	661	654
Civilian labor force .....	1,441	750	691	1,317	665	652	124	85	39
Employed .....	1,230	613	617	1,156	558	598	73	55	19
Agriculture .....	111	88	23	105	82	23	6	6	--
Nonagricultural industries .....	1,119	525	594	1,051	476	575	68	49	19
Unemployed .....	211	137	74	160	107	53	51	30	21
Unemployment rate .....	14.6	18.3	10.7	12.2	16.1	8.1	41.1	35.3	(1)
Not in labor force .....	6,758	3,424	3,334	5,566	2,848	2,719	1,192	577	615
Keeping house .....	52	8	45	40	6	35	12	2	10
Going to school .....	6,521	3,321	3,199	5,366	2,756	2,611	1,154	566	589
Unable to work .....	12	6	5	8	6	2	3	--	3
All other reasons .....	173	89	85	151	80	71	22	9	13

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

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

Characteristics	March 1978					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
Total .....	1,230	613	617	100.0	100.0	100.0
Nonagricultural industries .....	1,119	525	594	91.0	85.6	96.4
Wage and salary workers .....	1,008	444	564	82.0	72.4	91.6
Private household workers .....	432	62	369	35.1	10.1	59.9
Government workers .....	59	37	22	4.8	6.0	3.6
Other wage and salary workers .....	517	345	173	42.0	56.3	28.1
Self-employed workers .....	99	72	26	8.0	11.7	4.2
Unpaid family workers .....	12	9	3	1.0	1.5	.5
Agriculture .....	111	88	23	9.0	14.4	3.7
Wage and salary workers .....	63	43	21	5.1	7.0	3.4
Self-employed workers .....	11	10	1	.9	1.6	.2
Unpaid family workers .....	37	35	1	3.0	5.7	.2
<b>OCCUPATION</b>						
Total .....	1,230	613	617	100.0	100.0	100.0
White-collar workers .....	329	222	107	26.7	36.3	17.3
Professional and technical .....	11	5	6	.9	.8	1.0
Managers and administrators, except farm .....	--	--	--	--	--	--
Sales workers .....	246	185	61	20.0	30.2	9.9
Clerical workers .....	73	32	40	5.9	5.2	6.5
Blue-collar workers .....	149	137	12	12.1	22.4	1.9
Craft and kindred workers .....	7	7	--	.6	1.1	--
Operatives, except transport .....	32	26	6	2.6	4.2	1.0
Transport equipment operatives .....	6	6	--	.5	1.0	--
Nonfarm laborers .....	104	97	7	8.4	15.8	1.1
Service workers .....	643	167	476	52.2	27.3	77.0
Private household workers .....	410	38	373	33.3	6.2	60.4
Other service workers .....	233	130	104	18.9	21.2	16.8
Farm workers .....	108	87	22	8.8	14.2	3.6
Farmers and farm managers .....	9	7	1	.7	1.1	.2
Farm laborers and supervisors .....	100	79	20	8.1	12.9	3.2



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(Numbers in thousands)

Employment status	1977											1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
<b>TOTAL</b>														
Total noninstitutional population <sup>1</sup> . . . . .	157,782	157,986	158,228	158,456	158,682	158,899	159,114	159,334	159,522	159,736	159,937	160,128	160,313	
Armed Forces <sup>1</sup> . . . . .	2,138	2,132	2,128	2,129	2,135	2,137	2,131	2,134	2,132	2,129	2,121	2,124	2,122	
Civilian noninstitutional population <sup>1</sup> . . . . .	155,643	155,854	156,101	156,327	156,547	156,761	156,982	157,201	157,389	157,608	157,816	158,004	158,190	
Civilian labor force . . . . .	96,623	96,746	97,161	97,552	97,307	97,614	97,756	98,071	98,877	98,919	99,107	99,093	99,414	
Percent of civilian population . . . . .	62.1	62.1	62.2	62.4	62.2	62.3	62.3	62.4	62.8	62.8	62.8	62.7	62.8	
Employed . . . . .	89,478	89,877	90,267	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266	
Percent of total population . . . . .	56.7	56.9	57.0	57.2	57.1	57.1	57.2	57.4	57.8	58.0	58.1	58.1	58.2	
Agriculture . . . . .	3,179	3,256	3,335	3,330	3,206	3,224	3,199	3,243	3,357	3,323	3,354	3,242	3,310	
Nonagricultural industries . . . . .	86,299	86,621	86,932	87,318	87,382	87,569	87,889	88,140	88,857	89,286	89,527	89,761	89,956	
Unemployed . . . . .	7,145	6,869	6,894	6,904	6,719	6,821	6,668	6,688	6,663	6,310	6,226	6,090	6,148	
Unemployment rate . . . . .	7.4	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2	
Not in labor force . . . . .	59,020	59,108	58,940	58,775	59,240	59,147	59,226	59,130	58,512	58,689	58,709	58,911	58,776	
<b>Males, 20 years and over</b>														
Total noninstitutional population <sup>1</sup> . . . . .	67,114	67,209	67,324	67,431	67,537	67,642	67,745	67,852	67,948	68,052	68,148	68,240	68,327	
Civilian noninstitutional population <sup>1</sup> . . . . .	65,423	65,522	65,641	65,743	65,845	65,947	66,056	66,161	66,257	66,364	66,467	66,556	66,645	
Civilian labor force . . . . .	52,195	52,147	52,273	52,511	52,375	52,445	52,366	52,739	52,971	53,122	53,153	53,142	53,242	
Percent of civilian population . . . . .	79.8	79.6	79.6	79.9	79.5	79.5	79.3	79.7	79.9	80.0	80.0	79.8	79.9	
Employed . . . . .	49,297	49,419	49,505	49,850	49,728	49,787	49,888	50,118	50,459	50,688	50,673	50,759	50,833	
Percent of total population . . . . .	73.5	73.5	73.5	73.9	73.6	73.6	73.6	73.9	74.3	74.5	74.4	74.4	74.4	
Agriculture . . . . .	2,247	2,280	2,356	2,362	2,295	2,327	2,320	2,326	2,330	2,346	2,394	2,283	2,289	
Nonagricultural industries . . . . .	47,050	47,139	47,149	47,488	47,433	47,460	47,568	47,792	48,129	48,342	48,279	48,476	48,544	
Unemployed . . . . .	2,898	2,728	2,768	2,661	2,647	2,658	2,478	2,621	2,512	2,434	2,480	2,383	2,409	
Unemployment rate . . . . .	5.6	5.2	5.3	5.1	5.1	5.1	4.7	5.0	4.7	4.6	4.7	4.5	4.5	
Not in labor force . . . . .	13,228	13,375	13,368	13,232	13,470	13,502	13,690	13,422	13,286	13,242	13,314	13,414	13,403	
<b>Females, 20 years and over</b>														
Total noninstitutional population <sup>1</sup> . . . . .	73,852	73,958	74,081	74,198	74,315	74,429	74,543	74,660	74,768	74,883	74,991	75,095	75,196	
Civilian noninstitutional population <sup>1</sup> . . . . .	73,757	73,863	73,987	74,101	74,217	74,332	74,444	74,561	74,669	74,783	74,892	74,996	75,093	
Civilian labor force . . . . .	35,278	35,428	35,711	35,629	35,619	35,686	36,203	35,984	36,451	36,418	36,595	36,654	36,849	
Percent of civilian population . . . . .	47.8	48.0	48.3	48.1	48.0	48.0	48.6	48.3	48.8	48.7	48.9	48.9	49.1	
Employed . . . . .	32,742	32,954	33,249	33,079	33,160	33,163	33,690	33,537	33,923	34,009	34,348	34,569	34,722	
Percent of total population . . . . .	44.3	44.6	44.9	44.6	44.6	44.6	45.2	44.9	45.4	45.4	45.8	46.0	46.2	
Agriculture . . . . .	522	577	572	564	529	511	496	525	589	543	517	604	628	
Nonagricultural industries . . . . .	32,220	32,377	32,677	32,515	32,631	32,652	33,194	33,012	33,334	33,466	33,831	33,965	34,094	
Unemployed . . . . .	2,536	2,474	2,462	2,550	2,459	2,523	2,513	2,447	2,528	2,409	2,247	2,085	2,127	
Unemployment rate . . . . .	7.2	7.0	6.9	7.2	6.9	7.1	6.9	6.8	6.9	6.6	6.1	5.7	5.8	
Not in labor force . . . . .	38,479	38,435	38,276	38,472	38,598	38,646	38,241	38,577	38,218	38,365	38,297	38,342	38,244	
<b>Both sexes, 16-19 years</b>														
Total noninstitutional population <sup>1</sup> . . . . .	16,816	16,819	16,823	16,827	16,830	16,828	16,825	16,822	16,806	16,802	16,798	16,794	16,790	
Civilian noninstitutional population <sup>1</sup> . . . . .	16,464	16,468	16,473	16,483	16,485	16,483	16,483	16,480	16,463	16,460	16,457	16,453	16,452	
Civilian labor force . . . . .	9,150	9,171	9,177	9,412	9,313	9,483	9,187	9,348	9,455	9,379	9,359	9,297	9,323	
Percent of civilian population . . . . .	55.6	55.7	55.7	57.1	56.5	57.5	55.7	56.7	57.4	57.0	56.9	56.5	56.7	
Employed . . . . .	7,439	7,504	7,513	7,719	7,700	7,843	7,510	7,728	7,832	7,912	7,860	7,675	7,711	
Percent of total population . . . . .	44.2	44.6	44.7	45.9	45.8	46.6	44.6	45.9	46.6	47.1	46.8	45.7	45.9	
Agriculture . . . . .	410	399	407	404	382	386	383	392	438	434	443	355	393	
Nonagricultural industries . . . . .	7,029	7,105	7,106	7,315	7,318	7,457	7,127	7,336	7,394	7,478	7,417	7,320	7,318	
Unemployed . . . . .	1,711	1,667	1,664	1,693	1,613	1,640	1,677	1,620	1,623	1,467	1,499	1,622	1,612	
Unemployment rate . . . . .	18.7	18.2	18.1	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3	
Not in labor force . . . . .	7,314	7,297	7,296	7,071	7,172	7,000	7,296	7,132	7,008	7,081	7,098	7,156	7,129	

<sup>1</sup> The population and Armed Forces figures are not adjusted for seasonal variations. NOTE: Detail for the household data shown in tables A-33 through A-43 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

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

(Numbers in thousands)

Full- and part-time employment status	1977											1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	
<b>FULL TIME</b>														
Total, 16 years and over:														
Civilian labor force . . . . .	82,102	82,217	82,658	83,328	83,155	83,324	83,229	83,534	83,908	83,996	84,375	84,449	84,537	
Employed . . . . .	76,552	76,790	77,208	77,885	77,754	77,789	77,893	78,147	78,693	79,058	79,484	79,658	79,818	
Unemployed . . . . .	5,550	5,427	5,450	5,443	5,401	5,535	5,336	5,387	5,215	4,938	4,891	4,791	4,719	
Unemployment rate . . . . .	6.8	6.6	6.6	6.5	6.5	6.6	6.4	6.4	6.2	5.9	5.8	5.7	5.6	
<b>PART TIME</b>														
Total, 16 years and over:														
Civilian labor force . . . . .	14,489	14,510	14,439	14,133	14,170	14,432	14,512	14,665	14,900	14,870	14,762	14,705	14,824	
Employed . . . . .	12,915	13,067	13,005	12,644	12,847	13,126	13,105	13,253	13,470	13,541	13,443	13,446	13,402	
Unemployed . . . . .	1,574	1,443	1,434	1,489	1,323	1,306	1,407	1,412	1,430	1,329	1,319	1,259	1,422	
Unemployment rate . . . . .	10.9	9.9	9.9	10.5	9.3	9.0	9.7	9.6	9.6	8.9	8.9	8.6	9.6	

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Characteristics	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>WHITE</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force .....	85,481	85,625	85,899	86,258	85,962	86,298	86,407	86,812	87,292	87,193	87,425	87,360	87,532
Employed .....	79,809	80,149	80,512	80,816	80,758	81,032	81,203	81,614	82,181	82,391	82,650	82,697	82,880
Unemployed .....	5,672	5,476	5,387	5,442	5,204	5,266	5,204	5,198	5,111	4,802	4,775	4,663	4,652
Unemployment rate .....	6.6	6.4	6.3	6.3	6.1	6.1	6.0	6.0	5.9	5.5	5.5	5.3	5.3
<b>Males, 20 years and over:</b>													
Civilian labor force .....	46,649	46,663	46,775	47,002	46,906	47,003	47,008	47,278	47,417	47,507	47,440	47,441	47,528
Employed .....	44,328	44,435	44,554	44,869	44,796	44,925	45,033	45,220	45,452	45,592	45,546	45,599	45,643
Unemployed .....	2,321	2,228	2,221	2,133	2,110	2,078	1,975	2,058	1,965	1,915	1,894	1,842	1,885
Unemployment rate .....	5.0	4.8	4.7	4.5	4.5	4.4	4.2	4.4	4.1	4.0	4.0	3.9	4.0
<b>Females, 20 years and over:</b>													
Civilian labor force .....	30,568	30,648	30,841	30,843	30,827	30,844	31,171	31,162	31,445	31,381	31,612	31,615	31,701
Employed .....	28,586	28,746	28,993	28,852	28,912	28,895	29,244	29,268	29,536	29,545	29,875	30,021	30,149
Unemployed .....	1,982	1,902	1,848	1,991	1,915	1,949	1,927	1,894	1,909	1,836	1,737	1,594	1,552
Unemployment rate .....	6.5	6.2	6.0	6.5	6.2	6.3	6.2	6.1	6.1	5.9	5.5	5.0	4.9
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force .....	8,264	8,314	8,283	8,413	8,229	8,451	8,228	8,372	8,430	8,305	8,373	8,304	8,303
Employed .....	6,895	6,968	6,965	7,095	7,050	7,212	6,926	7,126	7,193	7,254	7,229	7,077	7,088
Unemployed .....	1,369	1,346	1,318	1,318	1,179	1,239	1,302	1,246	1,237	1,051	1,144	1,227	1,215
Unemployment rate .....	16.6	16.2	15.9	15.7	14.3	14.7	15.8	14.9	14.7	12.7	13.7	14.8	14.6
<b>BLACK AND OTHER</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force .....	11,133	11,086	11,175	11,325	11,241	11,375	11,344	11,398	11,551	11,761	11,725	11,785	11,871
Employed .....	9,702	9,725	9,732	9,834	9,746	9,752	9,854	9,842	9,966	10,271	10,238	10,391	10,402
Unemployed .....	1,431	1,361	1,443	1,491	1,495	1,623	1,490	1,556	1,585	1,490	1,487	1,394	1,469
Unemployment rate .....	12.9	12.3	12.9	13.2	13.3	14.3	13.1	13.7	13.7	12.7	12.7	11.8	12.4
<b>Males, 20 years and over:</b>													
Civilian labor force .....	5,513	5,443	5,504	5,552	5,482	5,500	5,405	5,522	5,541	5,649	5,678	5,662	5,699
Employed .....	4,986	4,977	4,954	5,020	4,921	4,856	4,837	4,898	4,985	5,137	5,124	5,173	5,216
Unemployed .....	527	466	550	532	561	644	568	624	556	512	554	489	483
Unemployment rate .....	9.6	8.6	10.0	9.6	10.2	11.7	10.5	11.3	10.0	9.1	9.8	8.6	8.5
<b>Females, 20 years and over:</b>													
Civilian labor force .....	4,732	4,767	4,794	4,782	4,763	4,839	4,966	4,883	4,988	5,065	5,051	5,088	5,145
Employed .....	4,173	4,186	4,238	4,219	4,235	4,268	4,408	4,328	4,358	4,485	4,503	4,576	4,560
Unemployed .....	559	581	556	563	528	571	558	555	630	580	548	512	585
Unemployment rate .....	11.8	12.2	11.6	11.8	11.1	11.8	11.2	11.4	12.6	11.5	10.8	10.1	11.4
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force .....	888	876	877	991	996	1,036	973	993	1,022	1,047	996	1,035	1,027
Employed .....	543	562	540	595	590	628	609	616	623	649	611	642	626
Unemployed .....	345	314	337	396	406	408	364	377	399	398	385	393	401
Unemployment rate .....	38.9	35.8	38.4	40.0	40.8	39.4	37.4	38.0	39.0	38.0	38.7	38.0	39.0

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**

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

(Unemployment rates)

Selected categories	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	7.4	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2
Males, 20 years and over .....	5.6	5.2	5.3	5.1	5.1	5.1	4.7	5.0	4.7	4.6	4.7	4.5	4.5
Females, 20 years and over .....	7.2	7.0	6.9	7.2	6.9	7.1	6.9	6.8	6.9	6.6	6.1	5.7	5.8
Both sexes, 16-19 years .....	18.7	18.2	18.1	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3
White .....	6.6	6.4	6.3	6.3	6.1	6.1	6.0	6.0	5.9	5.5	5.5	5.3	5.3
Black and other .....	12.9	12.3	12.9	13.2	13.3	14.3	13.1	13.7	13.7	12.7	12.7	11.8	12.4
Married men, spouse present .....	3.8	3.7	3.6	3.4	3.4	3.5	3.3	3.6	3.3	3.2	2.9	2.9	3.0
Married women, spouse present .....	6.8	6.6	6.5	6.8	6.5	6.5	6.4	6.3	6.5	6.2	5.6	5.2	5.1
Women who head families .....	9.6	9.4	9.1	9.4	9.3	10.0	10.0	9.3	9.3	8.1	7.9	7.6	8.6
Full-time workers .....	6.8	6.6	6.6	6.5	6.5	6.6	6.4	6.4	6.2	5.9	5.8	5.7	5.6
Part-time workers .....	10.9	9.9	9.9	10.5	9.3	9.0	9.7	9.6	9.6	8.9	8.9	8.6	9.6
Unemployed 15 weeks and over <sup>1</sup> .....	2.1	1.9	1.9	1.8	1.9	1.8	1.9	1.9	1.8	1.8	1.7	1.6	1.5
Labor force time lost <sup>2</sup> .....	7.8	7.4	7.6	7.6	7.5	7.6	7.4	7.4	7.3	7.0	6.8	6.6	6.6
<b>OCCUPATION</b>													
White-collar workers .....	4.7	4.4	4.3	4.2	4.1	4.2	4.2	4.1	4.2	4.0	3.6	3.5	3.4
Professional and technical .....	3.2	3.2	2.9	3.0	2.9	3.0	3.0	3.0	2.9	2.8	2.7	2.5	2.6
Managers and administrators, except farm .....	3.4	2.9	2.7	2.7	2.6	2.5	2.5	2.6	3.0	2.5	2.5	1.9	2.3
Sales workers .....	5.5	5.3	5.5	5.3	5.4	5.2	5.1	5.0	4.9	4.7	3.9	4.3	4.3
Clerical workers .....	6.3	6.0	5.8	5.8	5.4	5.8	6.0	5.7	5.7	5.5	5.0	5.0	4.5
Blue-collar workers .....	8.5	7.9	8.0	7.8	8.1	8.3	7.8	8.0	7.6	7.2	7.1	7.1	7.1
Craft and kindred workers .....	6.1	5.0	5.6	5.5	5.5	5.5	5.1	5.4	5.2	5.2	5.4	5.0	5.1
Operatives, except transport .....	9.5	9.5	9.1	9.4	10.1	9.8	9.9	9.8	9.3	8.5	7.9	8.1	8.0
Transport equipment operatives .....	7.1	6.5	7.0	5.9	7.3	7.5	5.7	6.1	5.3	5.6	5.4	5.0	5.2
Nonfarm laborers .....	13.2	12.6	12.3	11.6	10.8	12.4	11.3	11.8	11.9	10.6	11.0	11.5	11.9
Service workers .....	8.1	8.3	8.8	8.3	7.8	8.3	7.9	8.1	7.8	7.8	7.6	7.1	7.7
Farm workers .....	5.0	4.7	4.4	4.8	4.2	4.0	4.7	4.4	4.1	3.9	3.9	4.7	4.7
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	7.4	7.1	7.2	6.9	6.9	7.0	6.8	6.9	6.7	6.3	6.2	6.1	6.0
Construction .....	14.2	12.2	12.8	12.3	11.8	11.4	10.4	12.1	11.2	10.8	11.7	11.5	11.3
Manufacturing .....	6.7	6.7	6.5	6.4	6.7	6.9	7.0	6.8	6.5	5.7	5.6	5.7	5.4
Durable goods .....	6.3	6.1	5.9	5.7	6.1	6.3	6.4	6.1	6.0	5.6	5.2	5.0	4.8
Nondurable goods .....	7.4	7.7	7.2	7.4	7.5	7.7	7.9	7.8	7.2	5.9	6.1	6.5	6.2
Transportation .....	5.1	4.5	4.4	4.3	4.7	4.8	4.8	4.8	4.7	4.9	4.3	3.2	3.7
Wholesale and retail trade .....	8.3	7.9	8.3	8.0	7.9	8.1	7.6	7.9	7.4	7.3	7.1	7.1	7.3
Finance and service industries .....	6.4	6.2	6.5	6.0	5.7	5.7	5.7	5.7	6.0	5.5	5.3	5.1	5.1
Government workers .....	4.1	4.1	4.0	4.2	3.9	4.3	4.1	4.1	4.3	4.3	4.2	3.5	3.7
Agricultural wage and salary workers .....	12.6	12.1	11.5	10.9	10.2	9.8	10.4	10.3	9.3	9.6	9.0	10.1	10.0

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

as a percent of potentially available labor force hours.

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

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

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

(Numbers in thousands)

Weeks of unemployment	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Duration</b>													
Less than 5 weeks .....	2,944	3,041	2,789	3,076	2,820	2,865	2,784	2,804	2,851	2,628	2,700	2,586	2,820
5 to 14 weeks .....	2,140	1,899	2,128	2,050	2,050	2,237	2,152	2,117	2,037	1,937	1,861	1,820	1,877
15 weeks and over .....	2,008	1,828	1,869	1,788	1,824	1,800	1,834	1,848	1,829	1,797	1,688	1,568	1,463
15 to 26 weeks .....	859	720	812	826	881	933	908	920	936	941	864	897	766
27 weeks and over .....	1,149	1,108	1,057	962	943	867	926	928	893	856	824	671	697
Average (mean) duration, in weeks .....	14.4	14.4	14.9	14.3	14.1	13.7	14.0	13.8	13.7	13.8	13.1	12.5	12.3
Median duration, in weeks .....	7.2	7.0	7.3	6.1	7.2	7.2	6.9	7.1	7.0	7.1	6.6	7.0	6.2
<b>Percent distribution</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	41.5	44.9	46.7	44.5	42.1	41.5	41.1	41.4	42.4	41.3	43.2	43.3	45.8
5 to 14 weeks .....	30.2	28.1	35.6	29.6	30.6	32.4	31.8	31.3	30.3	30.4	29.8	30.5	30.5
15 weeks and over .....	28.3	27.0	31.3	25.9	27.2	26.1	27.1	27.3	27.2	28.2	27.0	26.2	23.8
15 to 26 weeks .....	12.1	10.6	13.6	11.9	13.2	13.5	13.4	13.6	13.9	14.8	13.8	15.0	12.4
27 weeks and over .....	16.2	16.4	17.7	13.9	14.1	12.6	13.7	13.7	13.3	13.5	13.2	11.2	11.3

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

Sex and age	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total, 16 years and over</b> .....	7.4	7.1	7.1	7.1	6.9	7.0	6.8	6.8	6.7	6.4	6.3	6.1	6.2
16 to 19 years .....	18.7	18.2	18.1	18.0	17.3	17.3	18.3	17.3	17.2	15.6	16.0	17.4	17.3
16 to 17 years .....	21.9	19.7	20.6	21.2	19.8	20.1	19.8	18.8	19.0	17.8	18.2	20.8	20.4
18 to 19 years .....	16.5	16.8	16.4	16.3	15.7	15.5	16.7	16.2	15.9	13.7	14.5	15.0	15.2
20 to 24 years .....	11.4	11.0	10.9	10.7	10.7	11.2	10.7	10.4	10.4	10.2	10.5	10.1	10.3
25 years and over .....	5.1	5.0	4.9	5.0	4.9	4.9	4.7	4.9	4.7	4.4	4.2	3.9	4.0
25 to 54 years .....	5.4	5.2	5.2	5.2	5.1	5.2	4.8	5.1	4.8	4.6	4.3	4.1	4.2
55 years and over .....	4.2	4.1	4.1	3.8	3.9	3.9	4.1	4.2	4.1	4.0	3.5	3.3	3.1
<b>Males, 16 years and over</b> .....	6.7	6.3	6.4	6.2	6.1	6.1	5.9	6.0	5.8	5.5	5.6	5.6	5.6
16 to 19 years .....	18.6	17.5	17.4	17.5	16.9	17.4	17.7	16.7	16.4	15.3	14.9	17.2	17.1
16 to 17 years .....	22.3	18.5	19.2	22.4	20.0	20.8	19.2	18.6	18.2	16.7	17.2	21.1	21.0
18 to 19 years .....	16.1	16.1	16.1	15.3	14.8	14.9	15.8	15.1	15.0	13.9	13.4	14.3	14.3
20 to 24 years .....	11.2	10.8	10.8	10.3	10.6	11.4	10.4	9.9	9.8	9.8	10.5	10.3	10.1
25 years and over .....	4.4	4.3	4.3	4.1	4.2	4.1	3.9	4.3	3.8	3.6	3.5	3.4	3.5
25 to 54 years .....	4.5	4.4	4.4	4.3	4.3	4.3	3.8	4.3	3.9	3.6	3.6	3.4	3.5
55 years and over .....	4.2	3.8	3.9	3.3	3.7	3.5	3.9	4.1	3.7	3.7	3.2	3.2	3.2
<b>Females, 16 years and over</b> .....	8.4	8.3	8.2	8.4	8.1	8.2	8.2	8.0	8.1	7.6	7.3	6.9	7.0
16 to 19 years .....	18.8	18.9	19.0	18.5	17.8	17.2	18.9	18.0	18.1	16.1	17.4	17.7	17.5
16 to 17 years .....	21.5	21.2	22.2	19.8	19.6	19.3	20.6	19.1	20.1	19.2	19.5	20.4	19.6
18 to 19 years .....	17.0	17.7	16.8	17.5	16.6	16.2	17.7	17.4	16.8	13.5	15.8	15.7	16.1
20 to 24 years .....	11.6	11.3	11.1	11.2	10.9	11.0	11.0	11.0	11.1	10.8	10.5	9.8	10.4
25 years and over .....	6.2	6.1	5.9	6.2	6.2	6.2	6.0	5.8	6.0	5.7	5.2	4.7	4.7
25 to 54 years .....	6.7	6.5	6.2	6.6	6.4	6.5	6.4	6.2	6.3	6.0	5.5	5.1	5.2
55 years and over .....	4.4	4.5	4.4	4.5	4.4	4.5	4.5	4.5	4.8	4.4	3.8	3.3	3.0

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

[Numbers in thousands]

Reason for unemployment	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	3,212	3,043	3,080	2,972	3,042	3,197	3,055	3,035	2,969	2,748	2,698	2,540	2,493
On layoff .....	896	793	803	822	879	963	847	840	780	687	768	709	660
Other job losers .....	2,316	2,250	2,277	2,150	2,163	2,234	2,208	2,195	2,189	2,061	1,930	1,831	1,833
Job leavers .....	916	868	913	938	842	891	869	876	881	877	856	898	862
Reentrants .....	2,000	1,993	1,961	1,917	1,860	1,872	1,879	1,906	1,891	1,886	1,821	1,796	1,911
New entrants .....	999	985	890	1,087	973	947	935	857	901	820	914	868	923
<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 .....	45.1	44.2	45.0	43.0	45.3	46.3	45.3	45.5	44.7	43.4	42.9	41.6	40.3
On layoff .....	12.6	11.5	11.7	11.9	13.1	13.9	12.6	12.6	11.7	10.9	12.2	11.6	10.7
Other job losers .....	32.5	32.7	33.3	31.1	32.2	32.3	32.8	32.9	33.0	32.6	30.7	30.0	29.6
Job leavers .....	12.9	12.6	13.3	13.6	12.5	12.9	12.9	13.1	13.3	13.9	13.6	14.7	13.9
Reentrants .....	28.1	28.9	28.7	27.7	27.7	27.1	27.9	28.6	28.5	29.8	29.0	29.4	30.9
New entrants .....	14.0	14.3	13.0	15.7	14.5	13.7	13.9	12.8	13.6	13.0	14.5	14.2	14.9
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.3	3.1	3.2	3.0	3.1	3.3	3.1	3.1	3.0	2.8	2.7	2.6	2.5
Job leavers .....	.9	.9	.9	1.0	.9	.9	.9	.9	.9	.9	.9	.9	.9
Reentrants .....	2.1	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9
New entrants .....	1.0	1.0	.9	1.1	1.0	1.0	1.0	.9	.9	.8	.9	.9	.9

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total, 16 years and over</b>	89,478	89,877	90,267	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266
16 to 19 years	7,439	7,504	7,513	7,719	7,700	7,843	7,510	7,728	7,832	7,912	7,860	7,675	7,711
16 to 17 years	2,969	3,048	3,026	3,073	3,074	3,146	3,119	3,170	3,215	3,237	3,213	3,133	3,126
18 to 19 years	4,456	4,492	4,479	4,605	4,551	4,666	4,445	4,563	4,610	4,664	4,657	4,585	4,575
20 to 24 years	12,702	12,707	12,716	12,904	12,879	12,866	13,023	13,018	13,055	13,139	13,183	13,201	13,220
25 years and over	69,340	69,660	70,021	70,004	70,039	70,006	70,559	70,691	71,309	71,551	71,914	72,176	72,315
25 to 54 years	55,770	55,963	56,168	56,329	56,403	56,465	56,770	56,831	57,255	57,530	57,910	58,222	58,325
55 years and over	13,565	13,696	13,768	13,694	13,606	13,620	13,759	13,905	14,006	14,039	14,003	13,984	13,984
<b>Males, 16 years and over</b>	53,301	53,482	53,644	54,006	53,901	53,942	53,964	54,341	54,745	55,012	54,975	54,897	55,013
16 to 19 years	4,004	4,063	4,139	4,156	4,173	4,155	4,076	4,223	4,286	4,324	4,302	4,138	4,180
16 to 17 years	1,622	1,689	1,721	1,654	1,687	1,728	1,721	1,767	1,809	1,825	1,788	1,709	1,746
18 to 19 years	2,381	2,412	2,401	2,462	2,438	2,421	2,392	2,455	2,473	2,492	2,514	2,461	2,436
20 to 24 years	6,970	6,955	6,910	7,048	7,041	7,037	7,057	7,139	7,142	7,172	7,135	7,139	7,207
25 years and over	42,335	42,472	42,598	42,785	42,679	42,687	42,843	43,004	43,320	43,530	43,557	43,649	43,611
25 to 54 years	33,891	33,997	34,022	34,177	34,135	34,184	34,336	34,394	34,617	34,828	34,931	34,996	34,982
55 years and over	8,452	8,465	8,539	8,588	8,535	8,515	8,500	8,633	8,698	8,734	8,649	8,637	8,653
<b>Females, 16 years and over</b>	36,177	36,395	36,623	36,642	36,687	36,851	37,124	37,042	37,469	37,597	37,906	38,106	38,253
16 to 19 years	3,435	3,441	3,374	3,563	3,527	3,688	3,434	3,505	3,546	3,588	3,558	3,537	3,531
16 to 17 years	1,347	1,359	1,305	1,419	1,387	1,418	1,398	1,403	1,406	1,412	1,425	1,424	1,380
18 to 19 years	2,075	2,080	2,078	2,143	2,113	2,245	2,053	2,108	2,137	2,172	2,143	2,124	2,139
20 to 24 years	5,732	5,752	5,806	5,856	5,838	5,829	5,966	5,879	5,913	5,967	6,048	6,062	6,013
25 years and over	27,005	27,188	27,423	27,219	27,360	27,319	27,716	27,687	27,989	28,021	28,857	28,527	28,704
25 to 54 years	21,879	21,966	22,146	22,152	22,268	22,281	22,434	22,437	22,638	22,702	22,979	23,226	23,343
55 years and over	5,113	5,231	5,229	5,106	5,071	5,105	5,259	5,272	5,308	5,305	5,354	5,347	5,331

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

(In thousands)

Sex and age	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>Total, 16 years and over</b>	7,145	6,869	6,894	6,904	6,719	6,821	6,668	6,688	6,663	6,310	6,226	6,090	6,148
16 to 19 years	1,711	1,667	1,664	1,693	1,613	1,640	1,677	1,620	1,623	1,467	1,499	1,622	1,612
16 to 17 years	833	749	783	828	760	792	771	736	756	701	717	821	799
18 to 19 years	881	909	881	898	847	858	892	879	871	740	791	806	817
20 to 24 years	1,632	1,574	1,560	1,547	1,545	1,620	1,553	1,515	1,519	1,499	1,547	1,477	1,513
25 years and over	3,748	3,646	3,628	3,655	3,643	3,621	3,502	3,641	3,493	3,319	3,155	2,941	2,987
25 to 54 years	3,167	3,075	3,053	3,099	3,032	3,074	2,887	3,037	2,909	2,772	3,632	2,476	2,561
55 years and over	601	580	586	538	557	555	588	615	605	585	503	470	449
<b>Males, 16 years and over</b>	3,812	3,592	3,638	3,543	3,498	3,533	3,354	3,469	3,352	3,213	3,232	3,245	3,271
16 to 19 years	914	864	870	882	851	875	876	848	840	779	752	862	862
16 to 17 years	465	384	410	477	422	453	408	404	403	365	371	457	463
18 to 19 years	457	462	460	444	425	424	450	435	438	401	389	410	408
20 to 24 years	881	843	836	810	834	902	819	788	777	775	840	816	812
25 years and over	1,967	1,887	1,916	1,846	1,849	1,829	1,724	1,929	1,714	1,640	1,601	1,519	1,562
25 to 54 years	1,604	1,550	1,578	1,541	1,519	1,518	1,360	1,556	1,392	1,315	1,297	1,238	1,283
55 years and over	368	335	343	296	325	312	342	369	337	339	289	285	284
<b>Females, 16 years and over</b>	3,333	3,277	3,256	3,361	3,221	3,288	3,314	3,219	3,311	3,097	2,994	2,845	2,877
16 to 19 years	797	803	794	811	762	765	801	772	783	688	747	760	750
16 to 17 years	368	365	373	351	338	339	363	332	353	336	346	364	336
18 to 19 years	424	447	421	454	422	434	442	444	433	339	402	396	409
20 to 24 years	751	731	724	737	711	718	734	727	742	724	707	661	701
25 years and over	1,781	1,759	1,712	1,809	1,794	1,792	1,778	1,712	1,779	1,679	1,554	1,422	1,425
25 to 54 years	1,563	1,525	1,475	1,558	1,513	1,556	1,527	1,481	1,517	1,457	1,335	1,238	1,278
55 years and over	233	245	243	242	232	243	246	246	268	246	214	185	165

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[In thousands]

Selected categories	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
<b>CHARACTERISTICS</b>													
Total, 16 years and over .....	89,478	89,877	90,267	90,648	90,588	90,793	91,088	91,383	92,214	92,609	92,881	93,003	93,266
Married men, spouse present .....	38,317	38,450	38,430	38,565	38,380	38,292	38,338	38,425	38,531	38,682	38,645	38,666	38,465
Married women, spouse present .....	20,933	21,053	20,928	20,825	20,824	20,810	21,185	21,119	21,278	21,416	21,638	21,738	21,674
<b>OCCUPATION</b>													
White-collar workers .....	44,533	44,804	44,655	44,840	45,057	45,198	45,493	46,083	46,251	46,316	46,547	46,555	46,835
Professional and technical .....	13,465	13,568	13,520	13,648	13,758	13,706	13,778	14,042	13,918	13,981	14,057	14,016	14,060
Managers and administrators, except farm .....	9,521	9,498	9,449	9,577	9,614	9,699	9,747	9,911	9,894	9,939	10,067	10,134	10,169
Sales workers .....	5,556	5,744	5,686	5,682	5,715	5,726	5,741	5,718	5,804	5,796	5,913	5,811	5,985
Clerical workers .....	15,891	15,994	16,000	15,933	15,970	16,067	16,227	16,412	16,635	16,600	16,510	16,594	16,621
Blue-collar workers .....	29,919	30,139	30,318	30,301	30,086	30,229	30,324	30,247	30,603	30,807	30,942	31,198	31,039
Craft and kindred workers .....	11,767	11,869	11,884	11,887	11,884	11,903	11,992	11,860	12,116	12,153	12,111	12,220	12,169
Operatives, except transport .....	10,425	10,357	10,455	10,364	10,285	10,295	10,239	10,320	10,423	10,424	10,755	10,738	10,766
Transport equipment operatives .....	3,471	3,462	3,537	3,495	3,413	3,453	3,533	3,457	3,525	3,555	3,432	3,643	3,541
Nonfarm laborers .....	4,256	4,451	4,442	4,555	4,504	4,578	4,560	4,610	4,539	4,675	4,644	4,597	4,563
Service workers .....	12,251	12,294	12,372	12,660	12,426	12,520	12,556	12,473	12,590	12,617	12,704	12,703	12,572
Farm workers .....	2,709	2,752	2,861	2,815	2,725	2,741	2,695	2,755	2,809	2,805	2,872	2,769	2,788
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,294	1,302	1,318	1,382	1,276	1,314	1,339	1,387	1,405	1,405	1,387	1,345	1,389
Self-employed workers .....	1,536	1,553	1,646	1,578	1,552	1,578	1,572	1,577	1,590	1,605	1,604	1,587	1,527
Unpaid family workers .....	343	361	378	373	357	318	272	305	368	346	342	314	389
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	79,907	80,221	80,353	80,704	80,773	80,918	81,363	81,727	82,281	82,692	82,915	83,078	83,124
Government .....	14,939	14,980	15,078	15,003	15,130	15,210	15,304	15,463	15,415	15,422	15,267	15,237	15,154
Private industries .....	64,968	65,241	65,275	65,701	65,643	65,708	66,059	66,264	66,866	67,270	67,648	67,841	67,970
Private households .....	1,329	1,341	1,324	1,375	1,419	1,388	1,403	1,358	1,403	1,436	1,421	1,383	1,293
Other industries .....	63,639	63,900	63,951	64,326	64,224	64,320	64,656	64,906	65,463	65,834	66,227	66,458	66,677
Self-employed workers .....	5,923	5,946	6,017	6,005	5,899	6,140	6,084	6,080	6,082	6,182	6,259	6,268	6,427
Unpaid family workers .....	525	500	539	520	527	483	505	460	467	442	439	488	500
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	81,161	81,188	81,666	81,714	82,479	82,642	82,783	82,788	83,347	83,662	83,304	84,054	84,285
Full-time schedules .....	66,491	66,603	67,083	67,172	67,693	67,839	67,817	67,827	68,240	68,574	68,812	69,215	69,417
Part-time for economic reasons .....	3,271	3,192	3,268	3,390	3,464	3,253	3,306	3,263	3,285	3,220	2,986	3,193	3,164
Usually work full time .....	1,228	1,188	1,270	1,327	1,446	1,220	1,244	1,237	1,255	1,247	1,043	1,128	1,226
Usually work part time .....	2,043	2,004	1,998	2,063	2,018	2,033	2,062	2,026	2,030	1,973	1,943	2,065	1,938
Part time for noneconomic reasons .....	11,399	11,393	11,315	11,152	11,322	11,550	11,660	11,698	11,822	11,868	11,506	11,646	11,704

<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.

## A-43. Employment status of male Vietnam-Era veterans and nonveterans 20 to 39 years of age

[Numbers in thousands]

Employment status	Not seasonally adjusted			Seasonally adjusted					
	Mar. 1977	Feb. 1978	Mar. 1978	Mar. 1977	Nov. 1977	Dec. 1977	Jan. 1978	Feb. 1978	Mar. 1978
<b>VETERANS<sup>1</sup></b>									
<b>Total, 20 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	6,857	6,595	6,572	6,857	6,821	6,620	6,609	6,595	6,572
Civilian labor force	6,469	6,259	6,257	6,487	6,464	6,331	6,281	6,272	6,295
Employed	5,925	5,841	5,880	6,026	6,026	5,976	5,926	5,944	5,978
Unemployed	544	418	377	461	438	355	355	328	317
Unemployment rate	8.4	6.7	6.0	7.1	6.8	5.6	5.7	5.2	5.0
<b>20 to 24 years:</b>									
Civilian noninstitutional population <sup>2</sup>	1,080	829	813	1,080	1,028	844	838	829	813
Civilian labor force	940	733	713	950	919	748	751	736	725
Employed	756	610	606	785	789	660	654	644	629
Unemployed	184	123	107	165	130	88	97	92	96
Unemployment rate	19.6	16.8	15.0	17.4	14.1	11.8	12.9	12.5	13.2
<b>25 to 29 years:</b>									
Civilian noninstitutional population <sup>2</sup>	3,077	2,540	2,499	3,077	2,894	2,618	2,579	2,540	2,499
Civilian labor force	2,911	2,401	2,365	2,904	2,716	2,499	2,431	2,398	2,371
Employed	2,672	2,241	2,232	2,706	2,543	2,346	2,282	2,268	2,261
Unemployed	239	160	133	198	173	153	149	130	110
Unemployment rate	8.2	6.7	5.6	6.8	6.4	6.1	6.1	5.4	4.6
<b>30 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	2,700	3,226	3,260	2,700	2,899	3,158	3,192	3,226	3,260
Civilian labor force	2,618	3,125	3,179	2,633	2,829	3,084	3,099	3,138	3,199
Employed	2,497	2,990	3,042	2,535	2,694	2,970	2,990	3,032	3,088
Unemployed	121	135	137	98	135	114	109	106	111
Unemployment rate	4.6	4.3	4.3	3.7	4.8	3.7	3.5	3.4	3.5
<b>35 to 39 years:</b>									
Civilian noninstitutional population <sup>2</sup>	605	988	1,010	605	739	914	947	988	1,010
Civilian labor force	586	963	980	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	554	933	948	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	32	30	32	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	5.5	3.1	3.3	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>NONVETERANS</b>									
<b>Total, 20 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	17,264	18,162	18,234	17,264	17,900	18,218	18,100	18,162	18,234
Civilian labor force	15,472	16,181	16,297	15,706	16,192	16,479	16,417	16,527	16,566
Employed	14,090	14,844	15,030	14,468	15,081	15,347	15,248	15,412	15,430
Unemployed	1,382	1,337	1,267	1,238	1,111	1,132	1,169	1,115	1,136
Unemployment rate	8.9	8.3	7.8	7.9	6.9	6.9	7.1	6.7	6.9
<b>20 to 24 years:</b>									
Civilian noninstitutional population <sup>2</sup>	8,056	8,308	8,334	8,056	8,237	8,437	8,293	8,308	8,334
Civilian labor force	6,738	6,861	6,963	6,922	7,011	7,190	7,090	7,105	7,162
Employed	5,944	6,060	6,210	6,205	6,361	6,511	6,371	6,413	6,482
Unemployed	794	801	753	717	650	679	719	692	680
Unemployment rate	11.8	11.7	10.8	10.4	9.3	9.4	10.1	9.7	9.5
<b>25 to 29 years:</b>									
Civilian noninstitutional population <sup>2</sup>	5,268	5,860	5,910	5,268	5,491	5,781	5,811	5,860	5,910
Civilian labor force	4,970	5,514	5,528	5,010	5,187	5,471	5,518	5,600	5,582
Employed	4,582	5,162	5,176	4,655	4,904	5,188	5,222	5,322	5,260
Unemployed	388	352	352	355	283	283	296	278	322
Unemployment rate	7.8	6.4	6.4	7.1	5.5	5.2	5.4	5.0	5.8
<b>30 to 34 years:</b>									
Civilian noninstitutional population <sup>2</sup>	3,940	3,994	3,990	3,940	4,172	4,000	3,996	3,994	3,990
Civilian labor force	3,764	3,806	3,806	3,774	3,994	3,818	3,809	3,822	3,822
Employed	3,564	3,622	3,644	3,608	3,816	3,648	3,655	3,677	3,688
Unemployed	200	184	162	166	178	170	154	145	134
Unemployment rate	5.3	4.8	4.3	4.4	4.5	4.5	4.0	3.8	3.5
<b>35 to 39 years:</b>									
Civilian noninstitutional population <sup>2</sup>	3,420	3,529	3,546	3,420	3,554	3,491	3,510	3,529	3,546
Civilian labor force	3,256	3,369	3,388	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	3,100	3,253	3,259	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	156	116	129	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	4.8	3.4	3.8	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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

appear in the unadjusted and seasonally adjusted columns.

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

N.A. = not available.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-44. Employment status of the noninstitutional population by sex, age, and race, seasonally adjusted**

[Numbers in thousands]

Employment status	1975				1976				1977				1978
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	152,440	153,056	153,820	154,477	155,115	155,717	156,368	156,990	157,582	158,223	158,898	159,531	160,126
Armed Forces <sup>1</sup> .....	2,196	2,185	2,180	2,159	2,144	2,141	2,144	2,147	2,136	2,130	2,134	2,132	2,122
Civilian noninstitutional population <sup>1</sup> .....	150,244	150,872	151,640	152,319	152,971	153,576	154,224	154,843	155,446	156,094	156,764	157,399	158,004
Civilian labor force.....	91,918	92,496	92,896	93,050	93,782	94,503	95,158	95,625	96,221	97,153	97,559	98,622	99,205
Percent of civilian population.....	61.2	61.3	61.3	61.1	61.3	61.5	61.7	61.8	61.9	62.2	62.2	62.7	62.8
Employed.....	84,362	84,305	84,999	85,321	86,558	87,392	87,795	88,182	89,059	90,264	90,823	92,069	93,050
Percent of total population.....	55.3	55.1	55.3	55.2	55.8	56.1	56.1	56.2	56.5	57.0	57.2	57.7	58.1
Agriculture.....	3,344	3,377	3,442	3,308	3,289	3,328	3,314	3,256	3,155	3,307	3,210	3,308	3,302
Nonagricultural industries.....	81,017	80,927	81,557	82,014	83,268	84,064	84,481	84,926	85,905	86,957	87,613	88,761	89,748
Unemployed.....	7,557	8,191	7,898	7,729	7,224	7,111	7,363	7,443	7,161	6,889	6,736	6,554	6,155
Unemployment rate.....	8.2	8.9	8.5	8.3	7.7	7.5	7.7	7.8	7.4	7.1	6.9	6.6	6.2
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	64,642	64,904	65,238	65,543	65,827	66,090	66,385	66,711	67,023	67,321	67,641	67,951	68,238
Civilian noninstitutional population <sup>1</sup> .....	62,911	63,181	63,510	63,828	64,139	64,400	64,690	65,014	65,338	65,635	65,949	66,261	66,556
Civilian labor force.....	50,609	50,841	50,988	50,955	51,121	51,423	51,621	51,917	52,140	52,310	52,395	52,944	53,179
Percent of civilian population.....	80.4	80.5	80.3	79.8	79.7	79.8	79.8	79.9	79.8	79.7	79.4	79.9	79.9
Employed.....	47,370	47,224	47,495	47,558	48,087	48,455	48,595	48,791	49,147	49,591	49,801	50,422	50,755
Percent of total population.....	73.3	72.8	72.8	72.6	73.1	73.3	73.2	73.1	73.3	73.7	73.6	74.2	74.4
Agriculture.....	2,454	2,418	2,436	2,378	2,361	2,405	2,369	2,295	2,247	2,333	2,314	2,334	2,322
Nonagricultural industries.....	44,917	44,805	45,059	45,180	45,726	46,050	46,226	46,497	46,899	47,259	47,487	48,088	48,433
Unemployed.....	3,238	3,617	3,493	3,397	3,034	2,968	3,026	3,125	2,994	2,719	2,594	2,522	2,424
Unemployment rate.....	6.4	7.1	6.8	6.7	5.9	5.8	5.9	6.0	5.7	5.2	5.0	4.8	4.6
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	71,226	71,531	71,904	72,214	72,535	72,839	73,169	73,468	73,746	74,079	74,429	74,770	75,094
Civilian noninstitutional population <sup>1</sup> .....	71,165	71,465	71,831	72,140	72,456	72,754	73,080	73,378	73,653	73,984	74,331	74,671	74,994
Civilian labor force.....	32,514	32,891	33,086	33,312	33,770	34,096	34,501	34,729	35,037	35,589	35,836	36,284	36,699
Percent of civilian population.....	45.7	46.0	46.1	46.2	46.6	46.9	47.2	47.3	47.6	48.1	48.2	48.6	48.9
Employed.....	29,920	30,094	30,474	30,701	31,281	31,638	31,869	32,130	32,549	33,094	33,338	33,823	34,546
Percent of total population.....	42.0	42.1	42.4	42.5	43.1	43.4	43.6	43.7	44.1	44.7	44.8	45.2	46.0
Unemployed.....	2,594	2,797	2,612	2,611	2,489	2,458	2,633	2,599	2,488	2,495	2,498	2,461	2,153
Unemployment rate.....	8.0	8.5	7.9	7.8	7.4	7.2	7.6	7.5	7.1	7.0	7.0	6.8	5.9
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,572	16,621	16,679	16,720	16,754	16,788	16,815	16,811	16,813	16,823	16,828	16,810	16,794
Civilian noninstitutional population <sup>1</sup> .....	16,168	16,226	16,298	16,351	16,376	16,422	16,454	16,451	16,454	16,475	16,484	16,468	16,454
Civilian labor force.....	8,796	8,764	8,822	8,783	8,890	8,984	9,035	8,979	9,044	9,253	9,328	9,394	9,326
Percent of civilian population.....	54.4	54.0	54.1	53.7	54.3	54.7	54.9	54.6	55.0	56.2	56.6	57.0	56.7
Employed.....	7,072	6,987	7,029	7,063	7,190	7,300	7,331	7,260	7,364	7,579	7,684	7,824	7,749
Percent of total population.....	42.7	42.0	42.1	42.2	42.9	43.5	43.6	43.2	43.8	45.1	45.7	46.5	46.1
Unemployed.....	1,724	1,777	1,793	1,720	1,701	1,685	1,704	1,718	1,680	1,675	1,643	1,570	1,578
Unemployment rate.....	19.6	20.3	20.3	19.6	19.1	18.8	18.9	19.1	18.6	18.1	17.6	16.7	16.9
<b>White</b>													
Total noninstitutional population <sup>1</sup> .....	134,556	135,046	135,585	136,104	136,611	137,087	137,602	138,105	138,574	139,084	139,620	140,107	140,568
Civilian noninstitutional population <sup>1</sup> .....	132,718	133,219	133,764	134,301	134,822	135,303	135,823	136,326	136,812	137,333	137,870	138,364	138,839
Civilian labor force.....	81,490	82,023	82,365	82,444	82,983	83,613	84,281	84,629	85,113	85,927	86,222	87,099	87,439
Percent of civilian population.....	61.4	61.6	61.6	61.4	61.5	61.8	62.1	62.1	62.2	62.6	62.5	62.9	63.0
Employed.....	75,368	75,334	75,903	76,154	77,206	77,923	78,305	78,635	79,403	80,492	80,998	82,062	82,742
Percent of total population.....	56.0	55.8	56.0	56.0	56.5	56.8	56.9	56.9	57.3	57.9	58.0	58.6	58.9
Unemployed.....	6,122	6,690	6,462	6,290	5,777	5,690	5,976	5,994	5,710	5,435	5,225	5,037	4,697
Unemployment rate.....	7.5	8.2	7.8	7.6	7.0	6.8	7.1	7.1	6.7	6.3	6.1	5.8	5.4
<b>Black and other</b>													
Total noninstitutional population <sup>1</sup> .....	17,884	18,010	18,235	18,374	18,504	18,631	18,766	18,885	19,008	19,139	19,279	19,424	19,557
Civilian noninstitutional population <sup>1</sup> .....	17,526	17,652	17,876	18,017	18,148	18,273	18,401	18,517	18,634	18,761	18,894	19,035	19,164
Civilian labor force.....	10,390	10,456	10,608	10,658	10,773	10,854	10,904	11,047	11,109	11,195	11,320	11,570	11,794
Percent of civilian population.....	59.3	59.2	59.3	59.2	59.4	59.4	59.3	59.7	59.6	59.7	59.9	60.8	61.5
Employed.....	8,993	8,974	9,115	9,187	9,353	9,452	9,478	9,570	9,681	9,764	9,784	10,026	10,344
Percent of total population.....	50.3	49.8	50.0	50.0	50.2	50.7	50.5	50.7	50.9	51.0	50.7	51.6	52.9
Unemployed.....	1,397	1,482	1,493	1,471	1,421	1,402	1,427	1,477	1,428	1,432	1,536	1,544	1,450
Unemployment rate.....	13.4	14.2	14.1	13.8	13.2	12.9	13.1	13.4	12.9	12.8	13.6	13.3	12.3

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

NOTE: Detail for the household data shown in tables A-44 through A-53 and A-60 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-45. Full- and part-time status of the civilian labor force by sex and age, seasonally adjusted**

[Numbers in thousands]

Full- and part-time employment status, sex, and age	1975				1976				1977				1978	
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	
<b>FULL TIME</b>														
<b>Total, 16 years and over:</b>														
Civilian labor force	78,577	78,975	79,211	79,615	80,087	80,601	81,020	81,616	81,971	82,734	83,236	83,813	84,454	
Employed <sup>1</sup>	72,446	72,199	72,658	73,248	74,296	74,867	75,063	75,585	76,347	77,294	77,812	78,633	79,653	
Unemployed	6,131	6,776	6,552	6,367	5,791	5,734	5,957	6,031	5,623	5,440	5,424	5,180	4,800	
Unemployment rate	7.8	8.6	8.3	8.0	7.2	7.1	7.4	7.4	6.9	6.6	6.5	6.2	5.7	
<b>Males, 20 years and over:</b>														
Civilian labor force	48,011	48,219	48,455	48,493	48,535	48,811	49,156	49,342	49,409	49,608	49,764	50,196	50,410	
Employed <sup>1</sup>	45,039	44,846	45,108	45,286	45,790	46,080	46,270	46,416	46,710	47,115	47,307	47,870	48,230	
Unemployed	2,972	3,372	3,348	3,207	2,745	2,731	2,886	2,926	2,699	2,493	2,457	2,326	2,180	
Unemployment rate	6.2	7.0	6.9	6.6	5.7	5.6	5.9	5.9	5.5	5.0	4.9	4.6	4.3	
<b>Females, 20 years and over:</b>														
Civilian labor force	25,726	25,875	25,953	26,327	26,649	26,891	27,019	27,388	27,625	28,023	28,339	28,526	29,013	
Employed <sup>1</sup>	23,593	23,568	23,817	24,173	24,602	24,897	24,913	25,267	25,646	26,021	26,289	26,548	27,263	
Unemployed	2,133	2,306	2,137	2,154	2,046	1,994	2,106	2,122	1,979	2,003	2,050	1,978	1,750	
Unemployment rate	8.3	8.9	8.2	8.2	7.7	7.4	7.8	7.7	7.2	7.1	7.2	6.9	6.0	
<b>Both sexes, 16-19 years:</b>														
Civilian labor force	4,839	4,882	4,802	4,795	4,903	4,898	4,846	4,885	4,937	5,103	5,133	5,091	5,031	
Employed <sup>1</sup>	3,814	3,784	3,734	3,789	3,904	3,889	3,880	3,902	3,991	4,159	4,216	4,214	4,160	
Unemployed	1,026	1,097	1,068	1,006	999	1,009	966	983	946	944	917	876	870	
Unemployment rate	21.2	22.5	22.2	21.0	20.4	20.6	19.9	20.1	19.2	18.5	17.9	17.2	17.3	
<b>PART TIME</b>														
<b>Total, 16 years and over:</b>														
Civilian labor force	13,321	13,503	13,806	13,493	13,689	13,870	14,232	14,042	14,259	14,361	14,371	14,812	14,764	
Employed <sup>1</sup>	11,945	12,097	12,400	12,089	12,294	12,492	12,780	12,609	12,755	12,905	13,026	13,421	13,430	
Unemployed	1,376	1,406	1,406	1,404	1,394	1,378	1,452	1,433	1,504	1,455	1,345	1,390	1,333	
Unemployment rate	10.3	10.4	10.2	10.4	10.2	9.9	10.2	10.2	10.5	10.1	9.4	9.4	9.0	
<b>Males, 20 years and over:</b>														
Civilian labor force	2,528	2,595	2,642	2,509	2,535	2,587	2,546	2,603	2,688	2,669	2,704	2,768	2,744	
Employed <sup>1</sup>	2,329	2,360	2,412	2,281	2,308	2,350	2,331	2,385	2,452	2,439	2,507	2,558	2,546	
Unemployed	199	235	230	228	228	238	215	218	236	229	197	210	198	
Unemployment rate	7.9	9.1	8.7	9.1	9.0	9.2	8.4	8.4	8.8	8.6	7.3	7.6	7.2	
<b>Females, 20 years and over:</b>														
Civilian labor force	6,837	6,988	7,133	6,999	7,170	7,170	7,471	7,349	7,456	7,535	7,467	7,768	7,733	
Employed <sup>1</sup>	6,368	6,505	6,665	6,533	6,720	6,711	6,955	6,864	6,941	7,045	7,026	7,276	7,324	
Unemployed	469	483	468	467	450	459	516	485	516	490	441	491	409	
Unemployment rate	6.9	6.9	6.6	6.7	6.3	6.4	6.9	6.6	6.9	6.5	5.9	6.3	5.3	
<b>Both sexes, 16-19 years:</b>														
Civilian labor force	3,957	3,920	4,031	3,985	3,983	4,113	4,215	4,090	4,115	4,157	4,201	4,276	4,287	
Employed <sup>1</sup>	3,248	3,232	3,323	3,276	3,267	3,432	3,494	3,360	3,362	3,421	3,494	3,587	3,561	
Unemployed	708	688	709	709	717	681	721	730	752	736	707	689	726	
Unemployment rate	17.9	17.6	17.6	17.8	18.0	16.6	17.1	17.8	18.3	17.7	16.8	16.1	16.9	

<sup>1</sup> Persons on part-time schedules for economic reasons are included in the full-time employed category; unemployed persons are allocated by whether seeking full- or part-time work.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-46. Employment status by race, sex, and age, seasonally adjusted**

(Numbers in thousands)

Characteristics	1975				1976				1977				1978
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
<b>WHITE</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force . . . . .	81,490	82,023	82,365	82,444	82,983	83,613	84,281	84,629	85,113	85,927	86,222	87,099	87,439
Employed . . . . .	75,368	75,334	75,903	76,154	77,206	77,923	78,305	78,635	79,403	80,492	80,998	82,062	82,742
Unemployed . . . . .	6,122	6,690	6,462	6,290	5,777	5,690	5,976	5,994	5,710	5,435	5,225	5,037	4,697
Unemployment rate . . . . .	7.5	8.2	7.8	7.6	7.0	6.8	7.1	7.1	6.7	6.3	6.1	5.8	5.4
<b>Males, 20 years and over:</b>													
Civilian labor force . . . . .	45,352	45,655	45,764	45,699	45,801	46,078	46,326	46,514	46,586	46,813	46,972	47,401	47,470
Employed . . . . .	42,731	42,672	42,836	42,908	43,389	43,664	43,783	43,967	44,189	44,619	44,918	45,421	45,596
Unemployed . . . . .	2,621	2,983	2,928	2,791	2,412	2,414	2,543	2,547	2,396	2,194	2,054	1,979	1,874
Unemployment rate . . . . .	5.8	6.5	6.4	6.1	5.3	5.2	5.5	5.5	5.1	4.7	4.4	4.2	3.9
<b>Females, 20 years and over:</b>													
Civilian labor force . . . . .	28,271	28,546	28,698	28,903	29,239	29,477	29,846	30,066	30,355	30,777	30,947	31,329	31,643
Employed . . . . .	26,138	26,271	26,612	26,784	27,246	27,528	27,764	27,995	28,397	28,864	29,017	29,450	30,015
Unemployed . . . . .	2,133	2,275	2,085	2,119	1,992	1,949	2,082	2,071	1,958	1,914	1,930	1,880	1,628
Unemployment rate . . . . .	7.5	8.0	7.3	7.3	6.8	6.6	7.0	6.9	6.4	6.2	6.2	6.0	5.1
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force . . . . .	7,867	7,823	7,904	7,842	7,943	8,057	8,109	8,049	8,172	8,337	8,303	8,369	8,327
Employed . . . . .	6,499	6,391	6,455	6,462	6,571	6,731	6,758	6,673	6,816	7,009	7,063	7,191	7,131
Unemployed . . . . .	1,368	1,431	1,449	1,380	1,373	1,327	1,351	1,376	1,356	1,327	1,240	1,178	1,195
Unemployment rate . . . . .	17.4	18.3	18.3	17.6	17.3	16.5	16.7	17.1	16.6	15.9	14.9	14.1	14.4
<b>BLACK AND OTHER</b>													
<b>Total, 16 years and over:</b>													
Civilian labor force . . . . .	10,390	10,456	10,608	10,658	10,773	10,854	10,904	11,047	11,109	11,195	11,320	11,570	11,794
Employed . . . . .	8,993	8,974	9,115	9,187	9,353	9,452	9,478	9,570	9,681	9,764	9,784	10,026	10,344
Unemployed . . . . .	1,397	1,482	1,493	1,471	1,421	1,402	1,427	1,477	1,428	1,432	1,536	1,544	1,450
Unemployment rate . . . . .	13.4	14.2	14.1	13.8	13.2	12.9	13.1	13.4	12.9	12.8	13.6	13.3	12.3
<b>Males, 20 years and over:</b>													
Civilian labor force . . . . .	5,176	5,187	5,304	5,288	5,252	5,349	5,357	5,431	5,497	5,500	5,462	6,671	5,680
Employed . . . . .	4,616	4,564	4,661	4,655	4,685	4,804	4,808	4,830	4,956	4,984	4,871	5,007	5,171
Unemployed . . . . .	560	622	644	633	567	545	549	601	542	516	591	564	509
Unemployment rate . . . . .	10.8	12.0	12.1	12.0	10.8	10.2	10.3	11.1	9.9	9.4	10.8	10.1	9.0
<b>Females, 20 years and over:</b>													
Civilian labor force . . . . .	4,274	4,320	4,370	4,433	4,570	4,583	4,626	4,685	4,719	4,781	4,856	4,979	5,095
Employed . . . . .	3,800	3,809	3,857	3,932	4,055	4,086	4,092	4,150	4,150	4,214	4,304	4,390	4,546
Unemployed . . . . .	474	511	513	501	515	497	534	536	568	567	552	588	548
Unemployment rate . . . . .	11.1	11.8	11.7	11.3	11.3	10.9	11.5	11.4	11.7	11.9	11.4	11.8	10.8
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force . . . . .	940	950	933	937	951	922	922	930	893	915	1,002	1,021	1,019
Employed . . . . .	577	601	597	600	613	562	578	590	558	566	609	629	626
Unemployed . . . . .	363	349	337	336	338	360	343	340	335	349	393	391	393
Unemployment rate . . . . .	38.6	36.7	36.1	35.9	35.5	39.0	37.3	36.5	37.5	38.2	39.2	38.3	38.6

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**  
**QUARTERLY AVERAGES**

**A-47. Major unemployment indicators, seasonally adjusted**

(Unemployment rates)

Selected categories	1975				1976				1977				1978
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	8.2	8.9	8.5	8.3	7.7	7.5	7.7	7.8	7.4	7.1	6.9	6.6	6.2
Males, 20 years and over .....	6.4	7.1	6.8	6.7	5.9	5.8	5.9	6.0	5.7	5.2	5.0	4.8	4.6
Females, 20 years and over .....	8.0	8.5	7.9	7.8	7.4	7.2	7.6	7.5	7.1	7.0	7.0	6.8	5.9
Both sexes, 16-19 years .....	19.6	20.3	20.3	19.6	19.1	18.8	18.9	19.1	18.6	18.1	17.6	16.7	16.9
White .....	7.5	8.2	7.8	7.6	7.0	6.8	7.1	7.1	6.7	6.3	6.1	5.8	5.4
Black and other .....	13.4	14.2	14.1	13.8	13.2	12.9	13.1	13.4	12.9	12.8	13.6	13.3	12.3
Married men, spouse present .....	4.8	5.6	5.3	5.0	4.2	4.2	4.3	4.3	3.9	3.6	3.4	3.4	2.9
Married women, spouse present .....	8.1	8.5	7.6	7.4	7.0	6.9	7.4	7.2	6.7	6.6	6.5	6.3	5.3
Women who head families .....	9.4	10.1	10.0	10.3	9.9	9.5	10.4	10.2	9.4	9.3	9.8	8.9	8.0
Full-time workers .....	7.8	8.6	8.3	8.0	7.2	7.1	7.4	7.4	6.9	6.6	6.5	6.2	5.7
Part-time workers .....	10.3	10.4	10.2	10.4	10.2	9.9	10.2	10.2	10.5	10.1	9.4	9.4	9.0
Unemployed 15 weeks and over <sup>1</sup> .....	2.0	2.8	3.1	3.0	2.7	2.3	2.4	2.5	2.2	1.9	1.9	1.9	1.6
Labor force time lost <sup>2</sup> .....	8.9	9.5	9.1	8.9	8.3	8.1	8.3	8.4	8.0	7.5	7.5	7.2	6.7
<b>OCCUPATION</b>													
White-collar workers .....	4.5	5.0	4.7	4.8	4.6	4.6	4.7	4.6	4.6	4.3	4.2	4.1	3.5
Professional and technical .....	2.9	3.4	3.3	3.3	3.3	3.1	3.1	3.3	3.2	3.0	2.9	2.9	2.6
Managers and administrators, except farm .....	2.9	3.1	3.1	3.0	2.9	3.0	3.4	3.1	3.1	2.8	2.5	2.7	2.2
Sales workers .....	5.6	6.0	5.6	6.0	5.4	5.1	5.6	5.4	5.6	5.3	5.2	4.9	4.2
Clerical workers .....	6.2	7.0	6.6	6.6	6.2	6.5	6.6	6.2	6.2	5.8	5.7	5.7	4.8
Blue-collar workers .....	11.2	12.7	12.0	11.0	9.4	9.2	9.7	9.5	8.6	7.9	8.1	7.6	7.1
Craft and kindred workers .....	7.5	9.0	8.7	7.9	6.9	6.8	7.0	6.8	6.3	5.4	5.4	5.3	5.1
Operatives, except transport .....	14.6	16.2	14.7	13.1	10.6	10.6	11.1	11.1	9.5	9.3	9.9	9.2	8.0
Transport equipment operatives .....	7.6	8.7	9.1	8.9	8.0	7.0	7.9	7.9	7.3	6.5	6.8	5.7	5.2
Nonfarm laborers .....	14.8	16.5	16.0	15.4	13.8	13.3	14.2	13.5	13.0	12.1	11.5	11.4	11.4
Service workers .....	8.0	8.5	8.9	8.8	8.9	8.4	8.6	9.1	8.4	8.5	8.0	7.9	7.5
Farm workers .....	3.4	3.3	3.6	4.0	4.1	4.4	4.2	5.1	5.4	4.7	4.3	4.1	4.4
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	8.8	9.8	9.3	8.9	8.0	7.7	8.0	8.0	7.5	7.1	6.9	6.6	6.1
Construction .....	16.8	20.0	19.0	17.5	15.8	15.3	16.3	14.9	14.8	12.4	11.2	11.3	11.5
Manufacturing .....	10.7	12.1	11.1	9.9	7.9	7.7	7.9	8.0	7.0	6.5	6.9	6.3	5.5
Durable goods .....	10.7	12.5	11.8	10.2	8.0	7.6	7.4	7.6	6.6	5.9	6.3	5.9	5.0
Nondurable goods .....	10.8	11.4	10.0	9.4	7.8	7.8	8.6	8.4	7.5	7.5	7.7	6.9	6.3
Transportation and public utilities .....	5.6	6.1	5.6	5.1	4.8	4.9	5.1	5.4	4.8	4.4	4.8	4.8	3.7
Wholesale and retail trade .....	8.3	8.9	8.8	9.1	8.6	8.4	8.8	8.6	8.5	8.1	7.9	7.5	7.2
Finance and service industries .....	6.3	6.7	6.5	6.9	6.6	6.3	6.5	6.7	6.3	6.2	5.7	5.7	5.2
Government workers .....	3.6	4.1	4.1	4.2	4.4	4.6	4.3	4.3	4.3	4.1	4.1	4.2	3.8
Agricultural wage and salary workers .....	10.1	10.1	10.4	10.9	10.9	11.6	11.5	12.7	12.9	11.5	10.2	9.7	9.7

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

as percent of potentially available labor force hours.

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-48. Unemployed persons by duration of unemployment, seasonally adjusted**

[Numbers in thousands]

Weeks of unemployment	1975				1976				1977				1978
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
<b>Duration</b>													
Less than 5 weeks .....	3,080	2,925	2,817	2,759	2,646	2,825	2,876	2,828	2,864	2,969	2,823	2,761	2,702
5 to 14 weeks .....	2,585	2,602	2,323	2,290	1,988	2,064	2,279	2,331	2,133	2,026	2,146	2,030	1,853
15 weeks and over .....	1,811	2,585	2,863	2,824	2,555	2,141	2,283	2,396	2,140	1,828	1,819	1,825	1,573
15 to 26 weeks .....	1,114	1,480	1,392	1,261	1,030	837	1,062	1,110	946	786	907	932	842
27 weeks and over .....	697	1,105	1,470	1,562	1,526	1,304	1,221	1,287	1,194	1,042	912	892	731
Average (mean) duration in weeks .....	11.4	13.9	15.5	16.2	16.5	15.9	15.5	15.3	14.8	14.5	13.9	13.8	12.6
Median duration, in weeks .....	6.9	8.8	9.0	9.1	8.7	7.8	7.9	8.2	7.5	6.8	7.1	7.1	6.6
<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 .....	41.2	36.1	35.2	35.0	36.8	40.2	38.7	37.4	40.1	43.5	41.6	41.7	44.1
5 to 14 weeks .....	34.6	32.1	29.0	29.1	27.6	29.4	30.6	30.8	29.9	29.7	31.6	30.7	30.2
15 weeks and over .....	24.2	31.9	35.8	35.9	35.5	30.5	30.7	31.7	30.0	26.8	26.8	27.6	25.7
15 to 26 weeks .....	14.9	18.2	17.4	16.0	14.3	11.9	14.3	14.7	13.3	11.5	13.4	14.1	13.7
27 weeks and over .....	9.3	13.6	18.4	19.8	21.2	18.5	16.4	17.0	16.7	15.3	13.4	13.5	11.9

**A-49. Rates of unemployment by sex and age, seasonally adjusted**

Sex and age	1975				1976				1977				1978
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
<b>Total, 16 years and over .....</b>	8.2	8.9	8.5	8.3	7.7	7.5	7.7	7.8	7.4	7.1	6.9	6.6	6.2
16 to 19 years .....	19.6	20.3	20.3	19.6	19.1	18.8	18.9	19.1	18.6	18.1	17.6	16.7	16.9
16 to 17 years .....	21.2	21.4	22.0	21.0	20.7	21.5	21.1	21.3	20.9	20.5	19.9	18.6	19.8
18 to 19 years .....	18.4	19.5	19.1	18.4	18.1	16.9	17.3	17.5	17.0	16.5	16.0	15.3	14.9
20 to 24 years .....	13.1	14.2	13.8	13.4	12.2	11.8	11.7	12.3	11.6	10.9	10.8	10.4	10.3
25 years and over .....	5.8	6.4	6.1	5.9	5.3	5.3	5.7	5.5	5.2	5.0	4.9	4.7	4.0
25 to 54 years .....	6.1	6.8	6.4	6.2	5.5	5.5	5.9	5.8	5.4	5.2	5.0	4.8	4.2
55 years and over .....	4.4	4.9	4.7	5.0	4.6	4.6	4.8	4.5	4.4	4.0	4.0	4.1	3.3
<b>Males, 16 years and over .....</b>	7.5	8.3	8.0	7.7	7.1	6.9	7.0	7.2	6.8	6.3	6.0	5.8	5.6
16 to 19 years .....	19.7	20.8	20.6	19.3	19.4	19.2	18.8	19.4	18.2	17.5	17.3	16.1	16.4
16 to 17 years .....	21.3	22.2	22.3	20.4	21.1	22.0	20.9	21.7	20.4	20.1	20.0	17.8	19.7
18 to 19 years .....	18.5	19.9	19.2	18.4	18.3	17.4	17.0	17.6	16.8	15.8	15.2	14.7	14.0
20 to 24 years .....	13.5	15.0	14.9	14.0	12.3	11.7	11.8	12.4	11.5	10.6	10.8	9.8	10.3
25 years and over .....	5.1	5.8	5.6	5.5	4.7	4.7	5.0	4.9	4.6	4.2	4.0	3.9	3.5
25 to 54 years .....	5.3	6.0	5.9	5.7	4.8	4.8	5.1	5.1	4.7	4.4	4.1	3.9	3.5
55 years and over .....	4.2	4.7	4.6	4.8	4.5	4.5	4.5	4.2	4.3	3.7	3.7	3.9	3.2
<b>Females, 16 years and over .....</b>	9.2	9.7	9.2	9.1	8.6	8.4	8.9	8.7	8.4	8.3	8.2	7.9	7.1
16 to 19 years .....	19.5	19.6	20.0	19.9	18.9	18.2	19.0	18.8	19.0	18.8	17.9	17.4	17.5
16 to 17 years .....	21.0	20.4	21.6	21.8	20.2	20.9	21.3	20.7	21.5	21.1	19.8	19.5	19.9
18 to 19 years .....	18.4	19.1	18.9	18.4	17.9	16.4	17.5	17.4	17.2	17.3	16.8	15.9	15.8
20 to 24 years .....	12.6	13.1	12.4	12.7	12.1	11.8	11.6	12.1	11.6	11.2	10.9	11.0	10.3
25 years and over .....	6.9	7.5	6.9	6.7	6.3	6.2	6.8	6.4	6.1	6.1	6.1	5.8	4.9
25 to 54 years .....	7.4	8.0	7.3	7.1	6.7	6.5	7.1	6.9	6.5	6.4	6.4	6.2	5.2
55 years and over .....	4.8	5.3	5.0	5.3	4.8	4.6	5.3	4.9	4.5	4.5	4.5	4.6	3.4

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**  
**QUARTERLY AVERAGES**

**A-50. Unemployed persons by reason for unemployment, seasonally adjusted**

(Numbers in thousands)

Reason for unemployment	1975				1976				1977				1978
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
<b>NUMBER OF UNEMPLOYED</b>													
Job losers .....	4,045	4,701	4,567	4,169	3,576	3,580	3,679	3,674	3,300	3,032	3,098	2,917	2,577
On layoff .....	1,620	1,958	1,705	1,419	1,009	1,034	1,116	1,016	914	806	896	769	712
Other job losers .....	2,425	2,744	2,862	2,750	2,568	2,546	2,563	2,658	2,386	2,226	2,202	2,148	1,865
Job leavers .....	773	824	801	854	828	868	955	881	910	906	867	878	872
Reentrants .....	1,809	1,921	1,856	1,883	1,883	1,805	1,932	1,961	1,984	1,957	1,870	1,894	1,843
New entrants .....	780	777	838	852	861	865	875	926	952	987	952	859	902
<b>PERCENT DISTRIBUTION</b>													
Job losers .....	54.6	57.2	56.6	53.7	50.0	50.3	49.4	49.4	46.2	44.1	45.6	44.5	41.6
On layoff .....	21.9	23.8	21.1	18.3	14.1	14.5	15.0	13.7	12.8	11.7	13.2	11.7	11.5
Other job losers .....	32.7	33.4	35.5	35.4	35.9	35.8	34.4	35.7	33.4	32.3	32.4	32.8	30.1
Job leavers .....	10.4	10.0	9.9	11.0	11.6	12.2	12.8	11.8	12.7	13.2	12.8	13.4	14.1
Reentrants .....	24.4	23.4	23.0	24.3	26.3	25.4	26.0	26.4	27.8	28.4	27.6	28.9	29.8
New entrants .....	10.5	9.4	10.4	11.0	12.0	12.2	11.8	12.4	13.3	14.3	14.0	13.1	14.6
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	4.4	5.1	4.9	4.5	3.8	3.9	3.9	3.8	3.4	3.1	3.2	3.0	2.6
Job leavers .....	.8	.9	.9	.9	.9	.9	1.0	.9	.9	.9	.9	.9	.9
Reentrants .....	2.0	2.1	2.0	2.0	2.0	1.9	2.0	2.1	2.1	2.0	1.9	1.9	1.9
New entrants .....	.8	.8	.9	.9	.9	.9	.9	1.0	1.0	1.0	1.0	.9	.9

**A-51. Employed persons by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1975				1976				1977				1978
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
<b>Total, 16 years and over .....</b>	<b>84,362</b>	<b>84,305</b>	<b>84,999</b>	<b>85,321</b>	<b>86,558</b>	<b>87,392</b>	<b>87,795</b>	<b>88,182</b>	<b>89,059</b>	<b>90,264</b>	<b>90,823</b>	<b>92,069</b>	<b>93,050</b>
16 to 19 years .....	7,072	6,987	7,029	7,063	7,190	7,300	7,331	7,260	7,364	7,579	7,684	7,824	7,749
16 to 17 years .....	2,957	2,879	2,868	2,902	2,924	2,912	2,971	2,895	2,966	3,049	3,113	3,207	3,157
18 to 19 years .....	4,124	4,115	4,179	4,159	4,264	4,381	4,362	4,366	4,414	4,525	4,554	4,612	4,606
20 to 24 years .....	11,604	11,545	11,692	11,703	12,028	12,292	12,353	12,417	12,643	12,776	12,923	13,071	13,201
25 years and over .....	65,686	65,767	66,273	66,566	67,343	67,791	68,098	68,514	69,064	69,895	70,201	71,184	72,135
25 to 54 years .....	52,164	52,230	52,798	53,154	53,881	54,353	54,605	54,907	55,524	56,153	56,546	57,205	58,152
55 years and over .....	13,538	13,513	13,491	13,421	13,483	13,407	13,503	13,612	13,557	13,719	13,662	13,983	13,990
<b>Males, 16 years and over .....</b>	<b>51,200</b>	<b>50,985</b>	<b>51,277</b>	<b>51,374</b>	<b>51,964</b>	<b>52,353</b>	<b>52,532</b>	<b>52,706</b>	<b>53,119</b>	<b>53,711</b>	<b>53,936</b>	<b>54,699</b>	<b>54,962</b>
16 to 19 years .....	3,830	3,762	3,782	3,816	3,877	3,898	3,937	3,914	3,972	4,119	4,135	4,278	4,207
16 to 17 years .....	1,637	1,594	1,576	1,590	1,595	1,579	1,630	1,597	1,616	1,688	1,712	1,800	1,748
18 to 19 years .....	2,200	2,174	2,222	2,218	2,274	2,315	2,313	2,313	2,364	2,425	2,417	2,473	2,470
20 to 24 years .....	6,348	6,275	6,348	6,384	6,595	6,748	6,765	6,853	6,953	6,971	7,045	7,151	7,160
25 years and over .....	41,011	40,351	41,141	41,189	41,487	41,707	41,815	41,953	42,196	42,618	42,736	43,285	43,606
25 to 54 years .....	32,444	32,435	32,663	32,823	33,138	33,329	33,394	33,515	33,770	34,065	34,218	34,613	34,970
55 years and over .....	8,574	8,498	8,482	8,378	8,354	8,358	8,426	8,455	8,436	8,531	8,517	8,688	8,646
<b>Females, 16 years and over .....</b>	<b>33,162</b>	<b>33,319</b>	<b>33,721</b>	<b>33,947</b>	<b>34,593</b>	<b>35,039</b>	<b>35,263</b>	<b>35,476</b>	<b>35,940</b>	<b>36,553</b>	<b>36,887</b>	<b>37,369</b>	<b>38,088</b>
16 to 19 years .....	3,242	3,225	3,247	3,246	3,313	3,401	3,394	3,346	3,392	3,459	3,550	3,546	3,542
16 to 17 years .....	1,320	1,284	1,292	1,312	1,329	1,334	1,341	1,298	1,349	1,361	1,401	1,407	1,410
18 to 19 years .....	1,924	1,941	1,956	1,941	1,990	2,066	2,049	2,053	2,050	2,100	2,137	2,139	2,135
20 to 24 years .....	5,256	5,270	5,344	5,320	5,434	5,543	5,588	5,564	5,691	5,805	5,878	5,920	6,041
25 years and over .....	24,674	24,817	25,131	25,377	25,856	26,084	26,283	26,561	26,868	27,277	27,465	27,899	28,529
25 to 54 years .....	19,720	19,794	20,135	20,330	20,743	21,024	21,212	21,392	21,754	22,088	22,328	22,592	23,183
55 years and over .....	4,964	5,015	5,009	5,043	5,129	5,049	5,078	5,157	5,121	5,189	5,145	5,295	5,344

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

**A-52. Employed persons by selected social and economic categories, seasonally adjusted**

[In thousands]

Selected categories	1975				1976				1977				1978
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
<b>CHARACTERISTICS</b>													
Total, 16 years and over .....	84,362	84,305	84,999	85,321	86,558	87,392	87,795	88,182	89,059	90,264	90,823	92,069	93,050
Married men, spouse present .....	37,867	37,822	37,911	37,880	38,045	38,140	38,119	38,002	38,243	38,482	38,337	38,546	38,592
Married women, spouse present .....	19,356	19,415	19,600	19,834	20,065	20,232	20,391	20,468	20,756	20,935	20,940	21,271	21,683
<b>OCCUPATION</b>													
White-collar workers .....	41,876	42,153	42,458	42,380	43,131	43,563	43,775	44,321	44,533	44,766	45,249	46,217	46,646
Professional and technical Managers and administrators, except farm .....	12,524	12,718	12,848	12,893	13,170	13,233	13,416	13,498	13,466	13,579	13,747	13,980	14,044
Sales workers .....	8,759	8,873	8,952	8,968	9,154	9,310	9,329	9,466	9,537	9,508	9,687	9,915	10,123
Clerical workers .....	5,453	5,506	5,505	5,372	5,359	5,485	5,501	5,635	5,709	5,704	5,727	5,773	5,903
Blue-collar workers .....	15,140	15,056	15,153	15,147	15,448	15,536	15,529	15,722	15,821	15,976	16,088	16,549	16,575
Craft and kindred workers .....	27,973	27,717	27,881	28,260	28,744	29,025	28,934	29,124	29,821	30,253	30,213	30,552	31,060
Operatives, except transport .....	10,897	10,888	10,970	11,115	11,219	11,225	11,313	11,348	11,672	11,880	11,926	12,043	12,167
Transport equipment operatives .....	9,656	9,509	9,566	9,818	10,066	10,180	10,016	10,081	10,370	10,392	10,273	10,389	10,753
Nontfarm laborers .....	3,249	3,190	3,221	3,220	3,212	3,295	3,272	3,305	3,429	3,498	3,466	3,512	3,539
Service workers .....	4,172	4,129	4,125	4,107	4,247	4,326	4,333	4,390	4,349	4,483	4,547	4,601	4,601
Farm workers .....	11,625	11,533	11,628	11,831	11,871	11,999	12,160	11,985	12,068	12,442	12,501	12,560	12,660
Farm workers .....	2,913	2,933	2,995	2,868	2,840	2,832	2,839	2,781	2,700	2,809	2,720	2,790	2,810
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,234	1,249	1,336	1,278	1,319	1,317	1,313	1,329	1,280	1,334	1,310	1,399	1,374
Self-employed workers .....	1,734	1,734	1,711	1,680	1,632	1,653	1,655	1,604	1,527	1,592	1,567	1,591	1,573
Unpaid family workers .....	382	390	397	358	329	347	342	343	350	371	316	340	348
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	74,939	74,859	75,502	75,804	77,082	77,928	78,372	78,754	79,556	80,426	81,018	82,233	83,039
Government .....	14,340	14,484	14,644	14,629	14,866	14,874	15,100	14,981	14,956	15,020	15,215	15,433	15,219
Private industries .....	60,599	60,375	60,858	61,175	62,217	63,055	63,272	63,773	64,600	65,406	65,803	66,800	67,820
Private households .....	1,346	1,393	1,329	1,319	1,286	1,352	1,392	1,394	1,353	1,347	1,403	1,399	1,366
Other industries .....	59,253	58,982	59,530	59,855	60,931	61,702	61,880	62,379	63,247	64,059	64,400	65,401	66,454
Self-employed workers .....	5,538	5,600	5,629	5,729	5,679	5,664	5,669	5,739	5,877	5,989	6,041	6,115	6,318
Unpaid family workers .....	490	459	461	507	473	459	446	458	482	520	505	456	476
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	76,079	76,250	76,080	77,064	78,272	78,690	79,304	79,895	80,591	81,523	82,635	83,266	83,881
Full-time schedules .....	62,005	61,964	62,016	63,188	64,317	64,546	64,962	65,393	66,118	66,953	67,783	68,214	69,148
Part time for economic reasons .....	3,637	3,645	3,363	3,285	3,224	3,219	3,258	3,430	3,318	3,283	3,341	3,256	3,114
Usually work full time .....	1,886	1,697	1,498	1,399	1,293	1,347	1,349	1,283	1,225	1,262	1,303	1,246	1,132
Usually work part time .....	1,751	1,948	1,865	1,886	1,931	1,872	1,909	2,147	2,093	2,022	2,038	2,010	1,982
Part time for noneconomic reasons .....	10,437	10,641	10,701	10,591	10,731	10,925	11,084	11,071	11,154	11,287	11,511	11,796	11,619

<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  
QUARTERLY AVERAGES**

**A-53. Job desire of persons not in labor force by current activity, reasons for not seeking work, sex, and race, seasonally adjusted**

[In thousands]

Characteristic	1975				1976				1977				1978
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I
<b>TOTAL</b>													
Total not in labor force	58,325	58,376	58,744	59,268	59,189	59,073	59,066	59,218	59,225	58,941	59,205	58,777	58,799
Do not want job now	52,862	53,459	53,427	53,966	53,860	54,015	54,511	53,828	53,825	53,263	53,213	53,207	53,789
Current activity:													
Going to school	6,183	6,353	6,289	6,376	6,416	6,261	6,736	6,324	6,163	6,153	6,216	6,193	6,237
Ill, disabled	4,937	4,865	4,618	4,738	4,705	4,739	4,797	4,608	4,726	4,553	4,504	4,407	4,516
Keeping house	31,142	31,463	31,281	31,407	30,967	31,028	30,693	30,337	30,566	30,197	30,078	30,095	29,671
Retired	7,659	7,660	7,831	8,243	8,324	8,480	8,791	8,774	8,748	9,031	9,048	9,031	9,454
Other	2,940	3,117	3,409	3,201	3,448	3,506	3,494	3,785	3,622	3,329	3,366	3,482	3,911
Want a job now	5,166	5,078	5,377	5,285	5,321	5,416	4,357	5,464	5,539	5,739	5,936	5,581	5,448
Reason not looking:													
School attendance	1,435	1,403	1,534	1,524	1,405	1,540	1,168	1,536	1,516	1,466	1,680	1,556	1,411
Ill health, disability	642	615	677	747	705	743	491	649	672	802	795	766	680
Home responsibilities	1,175	1,060	1,083	1,119	1,199	1,214	1,038	1,280	1,229	1,286	1,288	1,211	1,221
Think cannot get job	1,076	1,129	1,148	975	961	913	803	994	942	1,062	1,067	969	903
Job-market factors	880	819	963	770	661	627	570	726	657	739	747	630	621
Personal factors	196	310	185	205	300	286	233	268	285	323	320	339	282
Other reasons <sup>1</sup>	838	872	935	920	1,051	1,006	858	1,006	1,180	1,123	1,106	1,080	1,233
<b>Males</b>													
Total not in labor force	15,523	15,613	15,825	16,241	16,319	16,289	16,379	16,392	16,497	16,503	16,728	16,386	16,510
Do not want job now	13,753	14,059	14,227	14,551	14,624	14,728	15,168	14,757	14,839	14,687	14,766	14,676	14,925
Want a job now	1,610	1,569	1,758	1,711	1,702	1,649	1,308	1,670	1,701	1,758	1,833	1,706	1,785
Reason not looking:													
School attendance	765	704	811	744	704	777	595	733	766	759	801	767	714
Ill health, disability	270	268	315	348	318	317	203	277	299	335	325	330	317
Think cannot get job	348	368	379	339	384	305	269	341	297	310	360	306	352
Other reasons <sup>1</sup>	226	228	254	280	295	250	241	318	339	354	347	303	401
<b>Females</b>													
Total not in labor force	42,803	42,762	42,919	43,028	42,870	42,785	42,688	42,826	42,729	42,438	42,476	42,391	42,289
Do not want job now	39,109	39,400	39,200	39,415	39,236	39,287	39,343	39,071	38,986	38,576	38,447	38,532	38,864
Want a job now	3,556	3,510	3,619	3,574	3,619	3,767	3,049	3,794	3,838	3,981	4,103	3,875	3,663
Reason not looking:													
School attendance	669	698	723	780	701	763	573	802	750	707	879	789	697
Ill health, disability	372	347	363	399	387	426	288	371	374	466	470	436	363
Home responsibilities	1,175	1,060	1,083	1,119	1,199	1,214	1,038	1,280	1,229	1,286	1,288	1,211	1,221
Think cannot get job	728	761	769	636	576	608	534	653	645	753	707	662	550
Other reasons	612	644	681	640	756	756	617	688	840	769	759	777	833
<b>White</b>													
Total not in labor force	51,227	51,196	51,399	51,857	51,839	51,690	51,542	51,697	51,699	51,406	51,648	51,265	51,400
Do not want job now	46,932	47,401	47,422	47,872	47,693	47,742	48,120	47,460	47,397	47,162	47,306	46,875	47,433
Want a job now	4,013	3,878	4,131	3,978	4,086	4,065	3,434	4,172	4,289	4,303	4,333	4,306	4,179
Reason not looking:													
School attendance	1,099	1,097	1,129	1,158	1,071	1,129	943	1,113	1,181	1,057	1,138	1,141	1,040
Ill health, disability	484	446	492	524	501	508	363	448	505	646	575	554	484
Home responsibilities	948	834	894	828	941	921	822	1,020	1,007	972	957	970	984
Think cannot get job	793	779	843	690	712	689	595	750	676	732	735	726	640
Other reasons	688	723	773	778	861	818	711	841	919	895	928	914	1,031
<b>Black and other</b>													
Total not in labor force	7,136	7,196	7,268	7,359	7,375	7,419	7,497	7,470	7,525	7,566	7,574	7,465	7,370
Do not want job now	5,915	6,010	6,064	6,113	6,104	6,089	6,526	6,206	6,230	6,100	6,064	6,247	6,076
Want a job now	1,187	1,144	1,216	1,289	1,266	1,301	920	1,284	1,307	1,368	1,553	1,265	1,320
Reason not looking:													
School attendance	341	304	340	360	347	407	207	416	349	409	447	412	384
Ill health, disability	167	169	189	204	219	241	127	194	180	162	218	197	212
Home responsibilities	273	236	230	311	303	291	242	280	269	286	338	237	271
Think cannot get job	290	316	322	292	237	210	214	254	283	298	329	248	274
Other reasons	116	120	135	122	161	152	130	140	226	213	221	171	178

<sup>1</sup> Includes small number of men not looking for work because of home responsibilities.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-54. Job desire of persons not in labor force and reasons for not seeking work by age and sex

(In thousands)

Reasons for not seeking work	Total		Age in years								
			16-19		20-24		25-59		60 and over		
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	
<b>TOTAL</b>											
Total not in labor force	60,174	59,898	8,184	7,902	4,879	4,889	23,000	22,513	24,102	24,593	
Do not want a job now	54,437	54,301	6,508	6,368	3,979	4,081	20,443	19,932	23,508	23,920	
Current activity:											
Going to school	7,883	7,980	5,529	5,446	1,721	1,842	614	676	20	17	
Ill, disabled	4,676	4,462	40	34	114	112	2,350	2,137	2,173	2,177	
Keeping house	30,413	29,522	576	521	1,825	1,733	15,794	15,340	12,217	11,928	
Retired	8,707	9,386	--	--	--	2	172	217	8,536	9,166	
Other	2,758	2,951	363	367	319	392	1,513	1,562	562	632	
Want a job now	5,727	5,595	1,676	1,535	899	806	2,558	2,580	594	674	
Reason not looking:											
School attendance	1,800	1,670	1,370	1,220	265	269	162	176	2	4	
Ill health, disability	702	717	13	20	47	52	478	466	163	180	
Home responsibilities	1,175	1,169	106	72	228	223	798	833	43	40	
Think cannot get job	972	920	93	127	141	103	534	465	205	226	
Job-market factors	677	634	64	83	117	75	409	357	88	118	
Personal factors	295	285	29	43	23	28	125	107	117	107	
Other reasons <sup>1</sup>	1,078	1,119	94	96	218	159	586	640	180	224	
<b>Males</b>											
Total not in labor force	17,225	17,368	3,758	3,587	1,424	1,517	3,104	3,134	8,940	9,131	
Do not want a job now	15,426	15,506	2,954	2,860	1,139	1,264	2,653	2,574	8,682	8,808	
Current activity:											
Going to school	3,954	3,975	2,711	2,651	904	987	336	337	3	--	
Ill, disabled	2,506	2,378	23	23	53	66	1,305	1,206	1,127	1,083	
Keeping house	321	233	14	14	5	10	69	60	233	150	
Retired	7,021	7,273	--	--	--	2	154	180	6,867	7,091	
Other	1,624	1,647	206	172	177	199	789	791	452	484	
Want a job now	1,798	1,861	803	728	286	252	450	559	261	323	
Reason not looking:											
School attendance	912	847	704	633	147	136	61	74	--	4	
Ill health, disability	298	319	9	8	29	19	191	197	69	95	
Think cannot get job	287	341	47	54	47	46	92	132	103	109	
Other reasons <sup>1</sup>	301	354	43	33	63	51	106	156	89	115	
<b>Females</b>											
Total not in labor force	42,939	42,529	4,426	4,315	3,454	3,373	19,897	19,381	15,162	15,461	
Do not want a job now	39,011	38,794	3,554	3,509	2,841	2,819	17,791	17,356	14,829	15,111	
Current activity:											
Going to school	3,928	4,004	2,818	2,796	817	854	278	338	17	16	
Ill, disabled	2,171	2,084	18	12	62	47	1,044	929	1,048	1,095	
Keeping house	30,092	29,290	561	507	1,819	1,725	15,725	15,282	11,985	11,778	
Retired	1,686	2,112	--	--	--	--	18	37	1,669	2,075	
Other	1,134	1,304	157	194	143	193	726	770	110	147	
Want a job now	3,929	3,734	873	807	614	554	2,109	2,025	333	349	
Reason not looking:											
School attendance	889	824	666	587	118	134	102	103	2	--	
Ill health, disability	403	397	4	12	18	33	288	269	94	84	
Home responsibilities	1,175	1,169	106	72	228	223	798	833	43	40	
Think cannot get job	685	579	46	72	95	56	441	335	103	116	
Other reasons	777	765	51	64	155	108	480	485	91	109	

<sup>1</sup> Includes small number of men not looking for work because of "home responsibilities."

NOTE: Detail in tables A-54, A-55, and A-57 may not add to not-in-labor-force totals because of differences in the weighting patterns used in aggregating these data.



## HOUSEHOLD DATA QUARTERLY AVERAGES

### A-55. Job desire of persons not in labor force and reasons for not seeking work by age, race, and sex

[In thousands]

Reasons for not seeking work	Total		Age in years						Males		Females	
			16-24		25-59		60 and over					
	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978	1977	1978
<b>WHITE</b>												
Total not in labor force	52,478	52,344	10,461	10,308	20,182	19,755	21,835	22,279	14,716	14,859	37,762	37,485
Do not want a job now	48,060	48,081	8,549	8,629	18,169	17,715	21,334	21,734	13,331	13,439	34,729	34,642
Current activity:												
Going to school	6,381	6,522	5,872	5,959	494	547	14	16	3,191	3,276	3,190	3,246
Ill, disabled	3,788	3,656	125	110	1,866	1,742	1,795	1,801	2,122	1,987	1,666	1,669
Keeping house	27,605	26,909	2,007	1,964	14,398	13,918	11,197	11,029	270	189	27,335	26,720
Retired	7,976	8,533	--	--	166	202	7,810	8,327	6,424	6,618	1,552	1,915
Other	2,310	2,461	549	596	1,245	1,306	518	561	1,324	1,369	986	1,092
Want a job now	4,419	4,233	1,912	1,671	2,011	2,021	500	537	1,386	1,389	3,033	2,844
Reason not looking:												
School attendance	1,398	1,226	1,270	1,097	131	125	2	4	709	631	689	595
Ill health, disability	537	516	56	47	347	346	135	124	222	253	315	263
Home responsibilities <sup>1</sup>	899	892	203	188	672	664	24	40	--	--	899	892
Think cannot get job	725	681	149	143	399	351	176	186	213	233	512	448
Other reasons	860	918	234	202	462	535	163	183	242	272	618	646
<b>BLACK AND OTHER</b>												
Total not in labor force	7,686	7,553	2,601	2,482	2,818	2,757	2,267	2,314	2,509	2,509	5,177	5,044
Do not want a job now	6,378	6,220	1,934	1,820	2,271	2,212	2,174	2,183	2,096	2,068	4,282	4,152
Current activity:												
Going to school	1,502	1,457	1,379	1,329	117	129	6	--	764	699	738	758
Ill, disabled	890	807	28	36	483	394	378	378	385	392	505	415
Keeping house	2,808	2,612	391	291	1,396	1,421	1,021	898	51	43	2,757	2,569
Retired	731	853	--	--	6	14	725	838	597	656	134	197
Other	447	491	136	164	269	254	44	69	299	278	148	213
Want a job now	1,306	1,331	669	660	547	550	94	127	412	438	894	893
Reason not looking:												
School attendance	402	445	370	393	34	51	--	--	202	216	200	229
Ill health, disability	164	201	4	25	131	120	29	55	76	66	88	135
Home responsibilities <sup>1</sup>	276	278	132	108	126	170	19	--	--	--	276	278
Think cannot get job	247	239	86	85	132	121	29	41	75	108	172	131
Other reasons	217	168	77	49	124	88	17	31	59	48	158	120

<sup>1</sup> Small number of men not looking for work because of "home responsibilities" are included in "other reasons."

### A-56. Persons not in labor force who desire work but think they cannot get jobs by age, race, sex, and detailed reason

[In thousands]

1st Quarter 1978

Detailed reason for not seeking work	Total	Age in years				Race	
		16-19	20-24	25-59	60 and over	White	Black and other
<b>TOTAL</b>							
Personal factors:							
Employers think too young or old	143	13	3	26	101	114	30
Lacks education or training	88	27	11	49	2	73	15
Other personal handicap	54	3	14	32	4	37	17
Job-market factors:							
Could not find job	325	56	40	180	48	213	112
Thinks no job available	309	27	35	177	70	244	65
<b>Males</b>							
Personal factors:							
Employers think too young or old	58	6	--	6	45	37	21
Lacks education or training	29	12	2	13	2	20	9
Other personal handicap	23	--	10	12	1	15	8
Job-market factors:							
Could not find job	121	19	16	54	32	76	45
Thinks no job available	110	17	18	46	28	85	25
<b>Females</b>							
Personal factors:							
Employers think too young or old	86	7	3	20	57	77	9
Lacks education or training	59	15	9	36	--	53	6
Other personal handicap	31	3	4	20	3	22	9
Job-market factors:							
Could not find job	204	38	25	127	16	137	67
Thinks no job available	199	10	17	133	42	159	40

# HOUSEHOLD DATA QUARTERLY AVERAGES

**A-57. Most recent work experience of persons not in labor force and reason for leaving last job for those who worked during previous 12 months by age, race, and sex**

[Numbers in thousands]

Most recent work experience and reason for leaving job	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over		1977	1978	1977	1978
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978				
<b>Total, not in labor force</b>	60,164	59,898	13,063	12,791	23,000	22,513	24,102	24,593	52,478	52,344	7,686	7,553
Never worked	9,990	9,878	5,281	5,196	2,237	2,263	2,471	2,420	8,069	7,964	1,921	1,913
Last worked over 5 years ago	28,131	28,370	329	311	11,612	11,313	16,191	16,747	25,146	25,457	2,985	2,914
Last worked 1 to 5 years ago	11,582	10,941	2,004	1,719	5,676	5,324	3,902	3,897	10,214	9,579	1,368	1,362
Left job during previous 12 months	10,460	10,707	5,448	5,564	3,474	3,613	1,538	1,530	9,050	9,344	1,410	1,364
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	44.2	45.9	60.1	61.4	36.6	38.9	6.0	6.0	45.3	46.8	37.2	39.7
Ill health, disability	7.4	8.0	1.7	2.0	13.7	13.0	13.3	18.2	6.4	7.7	13.5	10.4
Retirement, old age	8.3	7.2	--	--	3.3	2.7	49.3	44.0	8.8	7.7	5.2	3.7
Economic reasons	22.4	19.9	20.9	17.4	25.4	23.1	21.3	21.3	22.0	19.2	25.0	24.4
End of seasonal job	9.3	9.2	9.8	9.5	8.2	8.3	10.0	9.9	8.9	8.6	11.8	13.3
Slack work	6.9	5.2	5.2	3.5	10.0	7.4	6.0	5.8	6.8	5.3	7.7	4.1
End of temporary job	6.2	5.6	5.8	4.4	7.2	7.3	5.2	5.7	6.3	5.4	5.4	7.0
All other reasons	17.6	19.0	17.3	19.3	21.4	22.3	10.1	10.4	17.4	18.6	19.1	21.9
<b>Males, not in labor force</b>	17,225	17,368	5,182	5,104	3,104	3,133	8,940	9,131	14,716	14,859	2,509	2,509
Never worked	2,368	2,225	2,080	1,977	247	216	41	32	1,710	1,679	658	546
Last worked over 5 years ago	6,853	7,111	57	54	984	1,058	5,812	5,999	5,999	6,248	854	864
Last worked 1 to 5 years ago	3,820	3,712	460	425	1,133	1,086	2,228	2,201	3,390	3,218	430	494
Left job during previous 12 months	4,184	4,319	2,583	2,649	740	772	859	900	3,618	3,714	566	605
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	40.9	41.7	59.7	60.9	19.6	21.8	2.6	2.3	41.0	42.0	40.2	39.8
Ill health, disability	8.0	9.6	1.7	2.0	27.6	26.7	10.3	17.1	7.5	9.5	11.1	10.1
Retirement, old age	12.9	11.6	--	.1	8.4	6.6	55.3	49.9	13.6	12.5	8.3	6.1
Economic reasons	20.9	19.3	20.3	17.8	20.3	21.9	23.2	21.4	21.3	18.2	18.3	25.5
End of seasonal job	10.4	10.2	10.0	10.1	6.6	9.5	14.5	11.2	11.1	9.2	5.5	16.1
Slack work	5.8	5.0	5.1	3.8	9.8	8.4	4.1	5.8	5.6	5.0	7.1	5.1
End of temporary job	4.8	4.0	5.2	3.9	3.7	4.0	4.5	4.3	4.6	4.0	5.8	4.3
All other reasons	17.3	17.8	18.3	19.2	24.1	23.0	8.6	9.2	16.6	17.7	22.0	18.4
<b>Females, not in labor force</b>	42,939	42,529	7,880	7,688	19,897	19,381	15,162	15,461	37,762	37,485	5,177	5,044
Never worked	7,622	7,652	3,200	3,220	1,992	2,045	2,431	2,387	6,359	6,285	1,263	1,367
Last worked over 5 years ago	21,278	21,259	273	257	10,628	10,255	10,377	10,748	19,147	19,209	2,131	2,050
Last worked 1 to 5 years ago	7,762	7,229	1,544	1,294	4,543	4,238	1,675	1,696	6,824	6,361	938	868
Left job during previous 12 months	6,276	6,389	2,864	2,918	2,753	2,841	678	630	5,432	5,630	844	759
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	46.4	48.7	60.5	61.8	40.8	43.6	10.2	11.1	48.2	49.9	35.1	39.7
Ill health, disability	7.0	6.9	1.7	1.9	9.9	9.3	17.2	19.7	5.7	6.4	15.2	10.5
Retirement, old age	5.3	4.3	--	--	1.9	1.7	41.7	35.6	5.7	4.6	3.1	1.7
Economic reasons	23.4	20.3	21.4	17.0	26.7	23.3	18.9	21.3	22.5	19.9	29.4	23.5
End of seasonal job	8.6	8.5	9.7	9.0	8.6	8.0	4.1	7.8	7.4	8.1	16.1	11.1
Slack work	7.7	5.2	5.3	3.3	10.2	7.1	8.5	5.7	7.6	5.5	8.2	3.3
End of temporary job	7.1	6.6	6.4	4.8	8.1	8.2	6.2	7.8	7.4	6.3	5.1	9.1
All other reasons	17.8	19.8	16.5	19.3	20.7	22.1	12.1	12.2	17.9	19.2	17.2	24.6

**A-58. Work-seeking intentions of persons not in labor force and work history of those who intend to seek work within next 12 months by age, race, and sex**

[In thousands]

Work-seeking intentions and work history	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over		1977	1978	1977	1978
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978				
<b>Total</b>	49,595	49,415	6,615	6,517	19,521	18,978	23,460	23,921	43,867	43,827	5,729	5,588
Do not intend to seek work	10,568	10,482	6,447	6,275	3,479	3,536	643	672	8,611	8,516	1,957	1,965
Intend to seek work in the next 12 months	1,980	1,975	1,857	1,858	103	117	20	1	1,464	1,480	516	496
Never worked	1,084	1,170	56	50	899	953	129	167	899	951	185	219
Last worked over 5 years ago	2,238	2,036	820	653	1,177	1,161	242	223	1,775	1,571	463	466
Last worked 1 to 5 years ago	5,266	5,300	3,715	3,715	1,299	1,303	251	282	4,473	4,516	793	785
Worked during previous 12 months	<b>Males</b>											
Do not intend to seek work	13,160	13,304	2,160	2,121	2,423	2,415	8,577	8,768	11,358	11,540	1,803	1,764
Intend to seek work in the next 12 months	4,064	4,064	3,021	2,981	680	718	363	364	3,358	3,319	706	745
Never worked	856	823	818	804	27	18	10	--	619	640	237	183
Last worked over 5 years ago	130	208	13	16	63	112	54	80	92	152	37	56
Last worked 1 to 5 years ago	671	559	276	236	252	211	144	112	554	437	117	122
Worked during previous 12 months	2,407	2,474	1,914	1,925	338	378	155	172	2,093	2,091	315	384
<b>Females</b>												
Do not intend to seek work	36,435	36,111	4,455	4,395	17,097	16,563	14,882	15,153	32,509	32,287	3,926	3,824
Intend to seek work in the next 12 months	6,504	6,418	3,426	3,292	2,798	2,817	279	308	5,253	5,197	1,251	1,220
Never worked	1,124	1,153	1,039	1,052	75	99	10	1	845	840	279	313
Last worked over 5 years ago	955	961	44	33	836	842	76	87	807	799	148	163
Last worked 1 to 5 years ago	1,567	1,478	544	415	925	951	98	110	1,221	1,134	346	344
Worked during previous 12 months	2,858	2,826	1,801	1,792	963	926	96	110	2,380	2,425	478	401

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-59. Employment status of the civilian noninstitutional population and the white, black, and Hispanic origin components by sex and age**

[Numbers in thousands]

Employment status	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978
<b>TOTAL</b>								
Civilian noninstitutional population . . . . .	155,446	158,004	136,812	138,839	16,153	16,503	6,817	7,479
Civilian labor force . . . . .	95,272	98,106	84,333	86,495	9,428	9,937	4,094	4,568
Percent of population . . . . .	61.3	62.1	61.6	62.3	58.4	60.2	60.1	61.1
Employment . . . . .	87,434	91,400	77,976	81,286	8,076	8,586	3,590	4,103
Agriculture . . . . .	2,728	2,851	2,514	2,597	181	206	171	181
Nonagricultural industries . . . . .	84,706	88,550	75,462	78,689	7,895	8,380	3,419	3,922
Unemployment . . . . .	7,838	6,705	6,357	5,209	1,351	1,351	504	464
Unemployment rate . . . . .	8.2	6.8	7.5	6.0	14.3	13.6	12.3	10.2
Not in labor force . . . . .	60,174	59,898	52,479	52,344	6,725	6,566	2,722	2,911
<b>Males, 20 years and over</b>								
Civilian noninstitutional population . . . . .	65,338	66,556	58,139	59,138	6,187	6,343	2,717	2,977
Civilian labor force . . . . .	51,861	52,775	46,400	47,142	4,687	4,799	2,283	2,524
Percent of population . . . . .	79.4	79.3	79.8	79.7	75.8	75.7	84.0	84.8
Employment . . . . .	48,322	49,911	43,487	44,866	4,127	4,269	2,042	2,316
Agriculture . . . . .	2,072	2,140	1,896	1,925	149	180	129	147
Nonagricultural industries . . . . .	46,249	47,771	41,591	42,941	3,978	4,089	1,913	2,170
Unemployment . . . . .	3,539	2,864	2,913	2,276	560	530	241	208
Unemployment rate . . . . .	6.8	5.4	6.3	4.8	11.9	11.0	10.5	8.3
Not in labor force . . . . .	13,477	13,781	11,739	11,996	1,499	1,544	434	453
<b>Females, 20 years and over</b>								
Civilian noninstitutional population . . . . .	73,653	74,994	64,702	65,760	7,756	7,944	3,145	3,429
Civilian labor force . . . . .	35,140	36,780	30,434	31,700	4,078	4,355	1,375	1,581
Percent of population . . . . .	47.7	49.0	47.0	48.2	52.6	54.8	43.7	46.1
Employment . . . . .	32,497	34,490	28,349	29,965	3,566	3,867	1,228	1,427
Agriculture . . . . .	392	447	365	419	20	19	17	21
Nonagricultural industries . . . . .	32,105	34,043	27,984	29,546	3,545	3,848	1,211	1,405
Unemployment . . . . .	2,644	2,289	2,085	1,735	513	488	148	154
Unemployment rate . . . . .	7.5	6.2	6.9	5.5	12.6	11.2	10.8	9.7
Not in labor force . . . . .	38,513	38,214	34,268	34,060	3,678	3,589	1,769	1,848
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population . . . . .	16,454	16,454	13,971	13,941	2,211	2,216	955	1,073
Civilian labor force . . . . .	8,271	8,552	7,499	7,653	662	782	436	463
Percent of population . . . . .	50.3	52.0	53.7	54.9	29.9	35.3	45.7	43.2
Employment . . . . .	6,616	6,999	6,140	6,454	383	450	320	361
Agriculture . . . . .	264	263	253	253	12	7	25	13
Nonagricultural industries . . . . .	6,352	6,736	5,887	6,201	372	443	295	347
Unemployment . . . . .	1,655	1,553	1,359	1,198	279	332	116	102
Unemployment rate . . . . .	20.0	18.2	18.1	15.7	42.1	42.5	26.6	22.1
Not in labor force . . . . .	8,184	7,902	6,472	6,288	1,548	1,434	519	611

<sup>1</sup> Data relate to black workers only. According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.  
<sup>2</sup> Data on persons of Hispanic origin are tabulated separately, without regard to race, which means that they are also included in the data for white and black workers. At the time of the 1970 Census, approximately 96 percent of their population was white.

NOTE: Data for 1977 for total Hispanic origin are not strictly comparable with those published earlier. These estimates incorporate the expanded sample and revised estimation procedures introduced in the national sample in January 1978.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-60. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years of age

[Numbers in thousands]

Employment status	Not seasonally adjusted		Seasonally adjusted								
			1976				1977				1978
	I 1977	I 1978	I	II	III	IV	I	II	III	IV	I
<b>VETERANS<sup>1</sup></b>											
<b>Total, 20 to 34 years:</b>											
Civilian noninstitutional population <sup>2</sup>	6,853	6,592	6,640	6,668	6,710	6,797	6,853	6,848	6,815	6,753	6,592
Civilian labor force	6,494	6,261	6,220	6,307	6,336	6,417	6,489	6,495	6,528	6,438	6,283
Employed	5,910	5,849	5,731	5,822	5,817	5,893	6,015	6,005	6,029	6,018	5,949
Unemployed	584	412	488	485	519	524	473	491	499	420	333
Unemployment rate	9.0	6.6	7.9	7.7	8.2	8.2	7.3	7.6	7.6	6.5	5.3
<b>20 to 24 years</b>											
Civilian noninstitutional population <sup>2</sup>	1,084	827	1,101	1,088	1,071	1,083	1,084	1,069	1,042	968	827
Civilian labor force	967	731	926	948	934	953	965	935	944	862	737
Employed	768	613	765	788	762	790	804	788	776	743	642
Unemployed	199	118	162	160	172	163	161	147	168	120	95
Unemployment rate	20.6	16.1	17.5	16.9	18.4	17.1	16.7	15.7	17.8	13.9	12.9
<b>25 to 29 years</b>											
Civilian noninstitutional population <sup>2</sup>	3,109	2,539	3,421	3,328	3,250	3,186	3,109	3,039	2,994	2,813	2,539
Civilian labor force	2,949	2,399	3,238	3,159	3,067	3,009	2,938	2,896	2,872	2,670	2,400
Employed	2,688	2,239	3,009	2,938	2,841	2,768	2,725	2,675	2,682	2,499	2,270
Unemployed	261	160	229	222	225	241	212	221	190	170	130
Unemployment rate	8.9	6.7	7.1	7.0	7.3	8.0	7.2	7.6	6.6	6.4	5.4
<b>30 to 34 years</b>											
Civilian noninstitutional population <sup>2</sup>	2,660	3,226	2,118	2,252	2,389	2,528	2,660	2,740	2,779	2,972	3,226
Civilian labor force	2,578	3,131	2,055	2,199	2,335	2,455	2,586	2,665	2,712	2,906	3,145
Employed	2,454	2,997	1,957	2,096	2,214	2,335	2,486	2,542	2,571	2,776	3,037
Unemployed	124	134	98	103	122	120	100	123	141	130	109
Unemployment rate	4.8	4.3	4.8	4.7	5.2	4.9	3.9	4.6	5.2	4.5	3.5
<b>NONVETERANS</b>											
<b>Total, 20 to 34 years:</b>											
Civilian noninstitutional population <sup>2</sup>	17,191	18,164	16,419	16,640	16,849	16,999	17,191	17,445	17,711	17,988	18,164
Civilian labor force	15,396	16,223	14,747	15,003	15,181	15,448	15,619	15,717	15,955	16,242	16,503
Employed	13,906	14,898	13,502	13,781	13,889	14,082	14,342	14,569	14,763	15,104	15,363
Unemployed	1,490	1,325	1,245	1,221	1,293	1,366	1,278	1,148	1,192	1,137	1,140
Unemployment rate	9.7	8.2	8.4	8.1	8.5	8.8	8.2	7.3	7.5	7.0	6.9
<b>20 to 24 years</b>											
Civilian noninstitutional population <sup>2</sup>	8,037	8,311	7,819	7,885	7,951	7,982	8,037	8,106	8,181	8,299	8,311
Civilian labor force	6,729	6,916	6,608	6,694	6,732	6,867	6,914	6,864	6,949	7,065	7,119
Employed	5,882	6,127	5,846	5,962	5,994	6,058	6,167	6,182	6,262	6,406	6,422
Unemployed	847	789	762	732	738	809	747	682	687	659	697
Unemployment rate	12.6	11.4	11.5	10.9	11.0	11.8	10.8	9.9	9.9	9.3	9.8
<b>25 to 29 years</b>											
Civilian noninstitutional population <sup>2</sup>	5,240	5,860	4,775	4,972	5,120	5,173	5,240	5,301	5,355	5,574	5,860
Civilian labor force	4,923	5,506	4,494	4,678	4,833	4,878	4,953	4,988	5,031	5,249	5,567
Employed	4,486	5,147	4,200	4,372	4,462	4,516	4,591	4,684	4,713	4,951	5,268
Unemployed	437	359	294	306	371	362	362	304	318	298	299
Unemployment rate	8.9	6.5	6.5	6.5	7.7	7.4	7.3	6.1	6.3	5.7	5.4
<b>30 to 34 years</b>											
Civilian noninstitutional population <sup>2</sup>	3,914	3,993	3,825	3,783	3,778	3,844	3,914	4,038	4,175	4,115	3,993
Civilian labor force	3,744	3,801	3,645	3,631	3,616	3,703	3,753	3,866	3,975	3,928	3,818
Employed	3,538	3,624	3,456	3,448	3,433	3,508	3,584	3,703	3,789	3,747	3,673
Unemployed	206	177	189	184	184	194	169	163	186	181	144
Unemployment rate	5.5	4.7	5.2	5.1	5.1	5.2	4.5	4.2	4.7	4.6	3.8

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

<sup>2</sup> Since seasonal variations are not present in the population figures, identical numbers appear in the unadjusted and seasonally adjusted columns.

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-61. Employment status of male Vietnam-Era veterans and nonveterans 20 to 34 years by age and race**

[Numbers in thousands]

Employment status	Veterans <sup>1</sup>						Nonveterans					
	White			Black and other			White			Black and other		
	I 1977	IV 1977	I 1978	I 1977	IV 1977	I 1978	I 1977	IV 1977	I 1978	I 1977	IV 1977	I 1978
<b>Total, 20 to 34 years:</b>												
Civilian noninstitutional population . . . . .	6,147	6,065	5,949	706	688	643	14,960	15,649	15,777	2,231	2,339	2,387
Civilian labor force . . . . .	5,864	5,810	5,665	630	619	596	13,522	14,182	14,239	1,874	1,945	1,984
Employed . . . . .	5,379	5,534	5,337	531	519	512	12,332	13,391	13,212	1,574	1,699	1,686
Unemployed . . . . .	485	276	328	99	100	84	1,190	791	1,027	300	246	298
Unemployment rate . . . . .	8.3	4.8	5.8	15.7	16.2	14.1	8.8	5.6	7.2	16.0	12.6	15.0
<b>20 to 24 years</b>												
Civilian noninstitutional population . . . . .	921	805	716	163	163	111	7,023	7,250	7,226	1,014	1,049	1,085
Civilian labor force . . . . .	834	726	634	133	133	97	5,938	6,139	6,092	791	794	824
Employed . . . . .	669	658	546	99	92	67	5,269	5,681	5,478	613	659	649
Unemployed . . . . .	165	68	88	34	41	30	669	458	614	178	135	175
Unemployment rate . . . . .	19.8	9.4	13.9	25.6	30.8	30.9	11.3	7.5	10.1	22.5	17.0	21.2
<b>25 to 29 years</b>												
Civilian noninstitutional population . . . . .	2,812	2,538	2,283	297	275	256	4,560	4,848	5,109	680	726	751
Civilian labor force . . . . .	2,683	2,417	2,162	266	247	237	4,324	4,621	4,840	599	647	666
Employed . . . . .	2,467	2,298	2,030	221	220	209	3,972	4,410	4,558	514	573	589
Unemployed . . . . .	216	119	132	45	27	28	352	211	282	85	74	77
Unemployment rate . . . . .	8.1	4.9	6.1	16.9	10.9	11.8	8.1	4.6	5.8	14.2	11.4	11.6
<b>30 to 34 years</b>												
Civilian noninstitutional population . . . . .	2,414	2,722	2,950	246	250	276	3,377	3,551	3,442	537	564	551
Civilian labor force . . . . .	2,347	2,667	2,869	231	239	262	3,260	3,422	3,307	484	504	494
Employed . . . . .	2,243	2,578	2,761	211	207	236	3,091	3,300	3,176	447	467	448
Unemployed . . . . .	104	89	108	20	32	26	169	122	131	37	37	46
Unemployment rate . . . . .	4.4	3.3	3.8	8.7	13.4	9.9	5.2	3.6	4.0	7.6	7.3	9.3

<sup>1</sup> See footnote 1, table A-60.

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-62. Employment status of the population in metropolitan and nonmetropolitan areas by sex, age, and race**

(Numbers in thousands)

Employment status	Metropolitan areas						Nonmetropolitan areas					
	Total		Central cities		Suburbs		Total		Farm		Nonfarm	
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978
<b>Total</b>												
Civilian noninstitutional population	105,791	106,499	43,315	44,919	60,476	61,580	49,655	51,505	4,683	4,884	44,972	46,621
Civilian labor force	65,915	67,126	27,268	27,487	38,647	39,639	29,357	30,980	2,706	2,895	26,651	28,085
Percent of population	62.3	63.0	60.2	61.2	63.9	64.4	59.1	60.1	57.8	59.3	59.3	60.2
Employed	60,434	62,530	24,675	25,258	35,759	37,272	27,000	28,870	2,610	2,805	24,390	26,065
Unemployed	5,482	4,596	2,593	2,229	2,889	2,367	2,356	2,110	97	90	2,259	2,020
Unemployment rate	8.3	6.8	9.5	8.1	7.5	6.0	8.0	6.8	3.6	3.1	8.5	7.2
Not in labor force	39,876	39,373	18,045	17,432	21,831	21,941	20,298	20,525	1,977	1,989	18,321	18,536
<b>Males, 20 years and over</b>												
Civilian noninstitutional population	44,288	44,710	18,643	18,482	25,645	26,228	21,050	21,845	2,122	2,206	18,928	19,639
Civilian labor force	35,644	35,935	14,391	14,261	21,253	21,674	16,216	16,840	1,744	1,791	14,472	15,049
Percent of population	80.5	80.4	77.2	77.2	82.9	82.6	77.0	77.1	82.2	81.2	76.5	76.6
Employed	33,158	33,971	13,154	13,290	20,004	20,681	15,163	15,941	1,706	1,757	13,457	14,184
Unemployed	2,486	1,964	1,238	970	1,248	994	1,053	900	38	34	1,015	866
Unemployment rate	7.0	5.5	8.6	6.8	5.9	4.6	6.5	5.3	2.2	1.9	7.0	5.8
Not in labor force	8,643	8,776	4,250	4,222	4,393	4,554	4,834	5,005	378	414	4,456	4,591
<b>Females, 20 years and over</b>												
Civilian noninstitutional population	50,428	50,775	22,185	22,033	28,243	28,742	23,225	24,219	2,000	2,006	21,219	22,123
Civilian labor force	24,602	25,416	10,784	11,080	13,818	14,336	10,538	11,364	722	819	9,816	10,545
Percent of population	48.8	50.1	48.6	50.3	48.9	49.9	45.4	46.9	36.0	39.1	46.3	47.7
Employed	22,764	23,849	9,908	10,304	12,856	13,545	9,732	10,641	683	784	9,049	9,857
Unemployed	1,838	1,567	875	775	963	792	806	722	40	36	766	686
Unemployment rate	7.5	6.2	8.1	7.0	7.0	5.5	7.6	6.4	5.5	4.3	7.8	6.5
Not in labor force	25,826	25,359	11,401	10,953	14,425	14,406	12,687	12,855	1,284	1,277	11,403	11,578
<b>Both sexes, 16-19 years</b>												
Civilian noninstitutional population	11,075	11,014	4,487	4,404	6,588	6,610	5,379	5,441	555	582	4,824	4,859
Civilian labor force	5,669	5,776	2,093	2,147	3,576	3,629	2,602	2,776	240	284	2,362	2,492
Percent of population	51.2	52.4	46.6	48.8	54.3	54.9	48.4	51.0	43.3	48.8	49.0	51.3
Employed	4,511	4,711	1,614	1,663	2,897	3,048	2,105	2,288	221	264	1,884	2,024
Unemployed	1,158	1,065	479	484	679	581	497	488	19	20	478	468
Unemployment rate	20.4	18.4	22.9	22.5	19.0	16.0	19.1	17.7	7.8	7.0	20.2	18.8
Not in labor force	5,407	5,238	2,394	2,257	3,013	2,981	2,777	2,665	315	298	2,462	2,367
<b>White</b>												
Civilian noninstitutional population	91,485	92,094	34,877	34,606	56,608	57,488	45,327	46,745	4,391	4,562	40,936	42,183
Civilian labor force	57,382	58,212	21,279	21,315	36,703	36,897	26,951	28,283	2,568	2,725	24,383	25,558
Percent of population	62.7	63.2	61.0	61.6	63.8	64.2	59.5	60.5	58.5	59.7	59.6	60.6
Employed	53,078	54,785	19,582	19,980	33,496	34,805	24,898	26,502	2,478	2,657	22,414	23,845
Unemployed	4,304	3,427	1,697	1,336	2,607	2,091	2,053	1,781	90	68	1,963	1,713
Unemployment rate	7.5	5.9	8.0	6.3	7.2	5.7	7.6	6.3	3.5	2.5	8.1	6.7
Not in labor force	34,103	33,882	13,599	13,291	20,504	20,591	18,376	18,462	1,823	1,837	16,553	16,625
<b>Black and other</b>												
Civilian noninstitutional population	14,306	14,405	10,437	10,314	3,869	4,091	4,328	4,759	292	322	4,036	4,437
Civilian labor force	8,533	8,914	5,989	6,172	2,544	2,742	2,406	2,697	138	170	2,268	2,527
Percent of population	59.6	61.9	57.4	59.8	65.8	67.0	55.6	56.7	47.3	52.7	56.2	57.0
Employed	7,355	7,746	5,094	5,279	2,261	2,467	2,103	2,368	132	148	1,971	2,220
Unemployed	1,178	1,168	896	894	282	274	303	328	6	22	297	306
Unemployment rate	13.8	13.1	15.0	14.5	11.1	10.0	12.6	12.2	4.7	12.8	13.1	12.1
Not in labor force	5,773	5,491	4,448	4,140	1,325	1,351	1,922	2,063	154	152	1,768	1,911

**HOUSEHOLD DATA  
QUARTERLY AVERAGES**

**A-63. Employment status of the population in poverty and nonpoverty areas by race**

(Number in thousands)

Employment status	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978
<b>Total</b>												
Civilian noninstitutional population	28,948	28,987	126,498	129,016	11,442	11,231	93,349	95,268	17,506	17,756	32,149	33,748
Civilian labor force	15,520	15,943	79,751	82,163	5,946	6,004	59,970	61,123	9,575	9,939	19,782	21,040
Percent of population	53.6	55.0	63.0	63.7	52.0	53.5	63.6	64.2	54.7	56.0	61.5	62.3
Employed	13,909	14,451	73,525	76,950	5,095	5,223	55,339	57,308	8,814	9,228	18,186	19,642
Unemployed	1,611	1,492	6,226	5,213	851	781	4,631	3,815	761	711	1,596	1,398
Unemployment rate	10.4	9.4	7.8	6.3	14.3	13.0	7.7	6.2	7.9	7.2	8.1	6.6
Not in labor force	13,427	13,044	46,747	46,853	5,496	5,228	34,379	34,145	7,931	7,816	12,368	12,708
<b>White</b>												
Civilian noninstitutional population	20,425	20,409	116,387	118,430	5,912	5,901	85,573	86,193	14,513	14,508	30,814	32,237
Civilian labor force	11,198	11,431	73,135	75,064	3,187	3,205	54,195	55,007	8,011	8,226	18,940	20,057
Percent of population	54.8	56.0	62.8	63.4	53.9	54.3	63.3	63.8	55.2	56.7	61.5	62.2
Employed	10,259	10,651	67,717	70,635	2,812	2,922	50,266	51,862	7,447	7,729	17,451	18,773
Unemployed	939	780	5,417	4,429	375	282	3,929	3,145	564	498	1,489	1,284
Unemployment rate	8.4	6.8	7.4	5.9	11.8	8.8	7.2	5.7	7.0	6.1	7.9	6.4
Not in labor force	9,227	8,978	43,252	43,367	2,725	2,696	31,378	31,186	6,502	6,282	1,874	12,181
<b>Black and other</b>												
Civilian noninstitutional population	8,523	8,578	10,112	10,586	5,530	5,331	8,776	9,074	2,993	3,247	1,335	1,512
Civilian labor force	4,322	4,511	6,617	7,099	2,759	2,799	5,775	6,115	1,564	1,712	842	984
Percent of population	50.7	52.6	65.4	67.1	49.9	52.5	65.8	67.4	52.3	52.7	63.1	65.1
Employed	3,650	3,800	5,808	6,314	2,283	2,300	5,073	5,446	1,367	1,500	735	868
Unemployed	672	712	809	785	476	498	702	670	196	214	107	115
Unemployment rate	15.5	15.8	12.2	11.1	17.3	17.8	12.2	11.0	12.5	12.4	12.7	11.7
Not in labor force	4,200	4,067	3,495	3,487	2,771	2,532	3,002	2,959	1,429	1,535	493	528

**A-64. Unemployment rates for selected labor force groups in poverty and nonpoverty areas by sex, age, and race**

Sex, age, and race	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978	I 1977	I 1978
<b>Total</b>												
Both sexes, 16 years and over	10.4	9.4	7.8	6.3	14.3	13.0	7.7	6.2	7.9	7.2	8.1	6.6
Males, 20 years and over	8.8	7.4	6.4	5.0	13.5	11.0	6.3	4.9	6.1	5.4	6.7	5.3
Females, 20 years and over	9.6	9.0	7.1	5.7	12.0	11.4	7.0	5.6	8.0	7.4	7.5	5.9
Both sexes, 16-19 years	24.3	23.3	19.2	17.2	32.0	32.3	19.4	17.1	20.1	17.7	18.7	17.5
<b>White</b>												
Both sexes, 16 years and over	8.4	6.8	7.4	5.9	11.8	8.8	7.2	5.7	7.0	6.1	7.9	6.4
Males, 20 years and over	7.1	5.5	6.1	4.7	11.5	7.2	6.0	4.6	5.4	4.8	6.6	5.2
Females, 20 years and over	8.0	6.7	6.7	5.3	9.9	8.5	6.5	5.2	7.2	6.0	7.2	5.6
Both sexes, 16-19 years	18.8	16.1	18.0	15.6	22.2	20.8	18.0	15.2	17.6	14.3	18.1	16.6
<b>Black and other</b>												
Both sexes, 16 years and over	15.5	15.8	12.2	11.1	17.3	17.8	12.2	11.0	12.5	12.4	12.7	11.7
Males, 20 years and over	14.0	13.0	9.8	8.7	16.2	15.9	10.0	8.8	10.2	8.5	8.5	8.3
Females, 20 years and over	13.1	13.8	11.1	9.2	14.0	14.3	10.8	9.1	11.4	13.0	13.1	10.3
Both sexes, 16-19 years	40.9	41.2	36.5	38.1	44.2	44.1	37.7	38.2	35.2	35.6	31.0	37.3

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-65. Unemployed persons by family relationship and presence of employed family members

(Numbers in thousands)

Family relationship	I 1977				I 1978			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
<b>TOTAL</b>								
Unemployed, total .....	7,838	41.8	58.2	51.4	6,705	39.7	60.3	53.9
Unemployed, in families <sup>1</sup> .....	6,729	32.2	67.8	59.9	5,763	29.8	70.2	62.7
Husbands <sup>2</sup> .....	1,975	51.6	48.4	36.8	1,462	49.2	50.8	38.2
Wives .....	1,520	17.5	82.5	77.4	1,243	16.0	84.0	78.3
Relatives in husband-wife families .....	2,044	12.9	87.1	81.9	1,901	10.5	89.5	85.8
Women who head families .....	418	81.8	18.2	11.2	392	82.7	17.3	12.8
Relatives of female heads .....	772	35.5	64.5	52.7	765	36.1	63.9	51.9
Unemployed, not in families <sup>3</sup> .....	1,109	--	--	--	942	--	--	--
<b>White</b>								
Unemployed, total .....	6,357	40.0	60.0	53.2	5,209	38.0	62.0	55.3
Unemployed, in families <sup>1</sup> .....	5,477	30.3	69.7	61.7	4,473	27.9	72.1	64.4
Husbands <sup>2</sup> .....	1,718	51.6	48.4	36.5	1,241	49.8	50.2	37.1
Wives .....	1,316	17.7	82.3	77.4	1,019	15.4	84.6	78.8
Relatives in husband-wife families .....	1,717	12.3	87.7	82.8	1,552	10.2	89.8	86.0
Women who head families .....	238	73.9	26.1	15.5	226	76.5	23.5	16.8
Relatives of female heads .....	488	31.6	68.4	56.8	435	32.2	67.8	56.6
Unemployed, not in families <sup>3</sup> .....	880	--	--	--	736	--	--	--
<b>Black<sup>4</sup></b>								
Unemployed, total .....	1,351	50.7	49.3	42.8	1,351	45.4	54.6	48.9
Unemployed, in families <sup>1</sup> .....	1,135	41.3	58.7	50.9	1,187	37.8	62.2	55.6
Husbands <sup>2</sup> .....	223	52.5	47.5	37.7	194	47.9	52.1	43.8
Wives .....	178	14.6	85.4	78.7	200	18.5	81.5	76.5
Relatives in husband-wife families .....	287	16.7	83.3	77.0	312	12.2	87.8	85.6
Women who head families .....	171	92.4	7.6	5.8	161	91.3	8.7	6.8
Relatives of female heads .....	276	43.5	56.5	44.6	320	41.9	58.1	45.0
Unemployed, not in families <sup>3</sup> .....	216	--	--	--	164	--	--	--

<sup>1</sup> In primary families only.

<sup>2</sup> Includes a small number of single, separated, widowed, or divorced men who head families.

<sup>3</sup> Includes unrelated individuals and persons in secondary families.

<sup>4</sup> According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.



## HOUSEHOLD DATA QUARTERLY AVERAGES

### A-66. Employed persons by family relationship and presence of additional employed family members

(Numbers in thousands)

Family relationship	I 1977				I 1978			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time
<b>TOTAL</b>								
Employed, total .....	87,434	39.3	60.7	51.1	91,400	38.4	61.6	52.4
Employed, in families <sup>1</sup> .....	76,220	30.4	69.6	58.6	78,915	28.7	71.3	60.6
Husbands <sup>2</sup> .....	38,234	43.8	56.2	40.0	38,688	41.6	58.4	42.1
Wives .....	20,515	10.4	89.6	84.8	21,380	9.4	90.6	86.1
Relatives in husband-wife families .....	10,761	7.2	92.8	88.4	11,441	6.5	93.5	90.2
Women who head families .....	3,862	68.7	31.3	20.2	4,289	67.5	32.5	22.5
Relatives of female heads .....	2,848	29.2	70.8	58.7	3,117	28.5	71.5	60.2
Employed, not in families <sup>3</sup> .....	11,214	--	--	--	12,485	--	--	--
<b>White</b>								
Employed, total .....	77,976	39.0	61.0	51.2	81,286	38.0	62.0	52.6
Employed, in families <sup>1</sup> .....	68,195	30.2	69.8	58.5	70,421	28.4	71.6	60.7
Husbands <sup>2</sup> .....	34,886	44.4	55.6	39.0	35,253	42.1	57.9	41.0
Wives .....	18,376	10.1	89.9	85.2	19,136	9.1	90.9	86.6
Relatives in husband-wife families .....	9,775	7.0	93.0	88.8	10,408	6.4	93.6	90.6
Women who head families .....	2,899	66.1	33.9	21.4	3,170	64.4	35.6	24.3
Relatives of female heads .....	2,259	29.7	70.3	58.9	2,454	28.8	71.8	60.5
Employed, not in families <sup>3</sup> .....	9,781	--	--	--	10,865	--	--	--
<b>Black<sup>4</sup></b>								
Employed, total .....	8,076	42.7	57.3	49.4	8,586	43.1	56.9	49.8
Employed, in families <sup>1</sup> .....	6,872	32.7	67.3	58.0	7,236	32.4	67.6	59.1
Husbands <sup>2</sup> .....	2,847	37.9	62.1	50.5	2,883	36.4	63.6	52.7
Wives .....	1,805	13.2	86.8	80.7	1,877	12.5	87.5	81.9
Relatives in husband-wife families .....	771	9.5	90.5	83.9	806	8.7	91.3	85.2
Women who head families .....	912	77.3	22.7	16.1	1,054	76.5	23.5	17.2
Relatives of female heads .....	537	28.7	71.3	55.9	616	30.4	69.6	57.6
Employed, not in families <sup>3</sup> .....	1,204	--	--	--	1,350	--	--	--

<sup>1</sup> See footnote 1, table A-65.

<sup>2</sup> See footnote 2, table A-65.

<sup>3</sup> See footnote 3, table A-65.

<sup>4</sup> See footnote 4, table A-65.

**ESTABLISHMENT DATA  
HISTORICAL EMPLOYMENT**

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

[In thousands]

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Contract construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1919.....	27,088	12,813	1,133	1,021	10,659	14,275	3,711	4,514	-	-	1,111	2,263	2,676	-	-
1920.....	27,350	12,745	1,239	848	10,658	14,605	3,998	4,467	-	-	1,175	2,362	2,603	-	-
1925.....	28,778	12,474	1,089	1,446	9,939	16,304	3,826	5,576	-	-	1,233	2,869	2,800	-	-
1926.....	29,819	12,896	1,185	1,555	10,156	16,923	3,942	5,784	-	-	1,305	3,046	2,846	-	-
1927.....	29,976	12,723	1,114	1,608	10,001	17,253	3,895	5,908	-	-	1,367	3,168	2,915	-	-
1928.....	30,000	12,603	1,050	1,606	9,947	17,397	3,828	5,874	-	-	1,435	3,265	2,995	-	-
1929.....	31,339	13,286	1,087	1,497	10,702	18,053	3,916	6,123	-	-	1,509	3,440	3,065	533	2,532
1930.....	29,424	11,943	1,009	1,372	9,562	17,481	3,685	5,797	-	-	1,475	3,376	3,148	526	2,622
1931.....	26,649	10,257	873	1,214	8,170	16,392	3,254	5,284	-	-	1,407	3,183	3,264	560	2,704
1932.....	23,628	8,632	731	970	6,931	14,996	2,816	4,683	-	-	1,341	2,931	3,225	559	2,666
1933.....	23,711	8,950	744	809	7,397	14,761	2,672	4,755	-	-	1,295	2,873	3,166	565	2,601
1934.....	25,953	10,246	883	862	8,501	15,707	2,750	5,281	-	-	1,319	3,058	3,299	652	2,647
1935.....	27,053	10,878	897	912	9,069	16,175	2,786	5,431	-	-	1,335	3,142	3,481	753	2,728
1936.....	29,082	11,918	946	1,145	9,827	17,164	2,973	5,809	-	-	1,388	3,326	3,668	826	2,842
1937.....	31,026	12,921	1,015	1,112	10,794	18,105	3,134	6,265	-	-	1,432	3,518	3,756	833	2,923
1938.....	29,209	11,386	891	1,055	9,440	17,823	2,863	6,179	-	-	1,425	3,473	3,883	829	3,054
1939.....	30,618	12,282	854	1,150	10,278	18,336	2,936	6,426	1,684	4,742	1,462	3,517	3,995	905	3,090
1940.....	32,376	13,204	925	1,294	10,985	19,173	3,038	6,750	1,754	4,996	1,502	3,681	4,202	996	3,206
1941.....	36,554	15,939	957	1,790	13,192	20,614	3,274	7,210	1,873	5,338	1,549	3,921	4,660	1,340	3,320
1942.....	40,125	18,442	992	2,170	15,280	21,683	3,460	7,118	1,821	5,297	1,538	4,084	5,483	2,213	3,270
1943.....	42,452	20,094	925	1,567	17,602	22,359	3,647	6,982	1,741	5,241	1,502	4,148	6,080	2,905	3,174
1944.....	41,883	19,314	892	1,094	17,328	22,569	3,829	7,058	1,762	5,296	1,476	4,163	6,043	2,928	3,116
1945.....	40,394	17,492	836	1,132	15,524	22,902	3,906	7,314	1,862	5,452	1,497	4,241	5,944	2,808	3,137
1946.....	41,674	17,226	862	1,661	14,703	24,448	4,061	8,376	2,190	6,186	1,697	4,719	5,595	2,254	3,341
1947.....	43,881	18,482	955	1,982	15,545	25,399	4,166	8,955	2,361	6,595	1,754	5,050	5,474	1,892	3,582
1948.....	44,891	18,745	994	2,169	15,582	26,146	4,189	9,272	2,489	6,783	1,829	5,206	5,650	1,863	3,787
1949.....	43,778	17,536	930	2,165	14,441	26,242	4,001	9,264	2,487	6,778	1,857	5,264	5,856	1,908	3,948
1950.....	45,222	18,475	901	2,333	15,241	26,747	4,034	9,386	2,518	6,868	1,919	5,382	6,026	1,928	4,098
1951.....	47,849	19,925	929	2,603	16,393	27,924	4,226	9,742	2,606	7,136	1,991	5,576	6,389	2,302	4,087
1952.....	48,825	20,164	898	2,634	16,632	28,660	4,248	10,004	2,687	7,317	2,069	5,730	6,609	2,420	4,188
1953.....	50,232	21,038	866	2,623	17,549	29,195	4,290	10,247	2,727	7,520	2,146	5,867	6,645	2,305	4,340
1954.....	49,022	19,717	791	2,612	16,314	29,306	4,084	10,235	2,739	7,496	2,234	6,002	6,751	2,188	4,563
1955.....	50,675	20,476	792	2,802	16,882	30,199	4,141	10,535	2,796	7,740	2,335	6,274	6,914	2,187	4,727
1956.....	52,408	21,064	822	2,999	17,243	31,344	4,244	10,858	2,884	7,974	2,429	6,536	7,277	2,209	5,069
1957.....	52,894	20,925	828	2,923	17,174	31,969	4,241	10,886	2,893	7,992	2,477	6,749	7,616	2,217	5,399
1958.....	51,363	19,474	751	2,778	15,945	31,890	3,976	10,750	2,848	7,902	2,519	6,806	7,839	2,191	5,648
1959.....	53,313	20,367	732	2,960	16,675	32,945	4,011	11,127	2,946	8,182	2,594	7,130	8,083	2,233	5,850
1960.....	54,234	20,393	712	2,885	16,796	33,840	4,004	11,391	3,004	8,388	2,669	7,423	8,353	2,270	6,083
1961.....	54,042	19,814	672	2,816	16,326	34,229	3,903	11,337	2,993	8,344	2,731	7,664	8,594	2,279	6,315
1962.....	55,596	20,405	650	2,902	16,853	35,190	3,906	11,566	3,056	8,511	2,800	8,028	8,890	2,340	6,550
1963.....	56,702	20,593	635	2,963	16,995	36,108	3,903	11,778	3,104	8,675	2,877	8,325	9,225	2,358	6,868
1964.....	58,331	20,958	634	3,050	17,274	37,373	3,951	12,160	3,189	8,971	2,957	8,709	9,596	2,348	7,248
1965.....	60,815	21,880	632	3,186	18,062	38,936	4,036	12,716	3,312	9,404	3,023	9,087	10,074	2,378	7,696
1966.....	63,955	23,116	627	3,275	19,214	40,839	4,151	13,245	3,437	9,808	3,100	9,551	10,792	2,564	8,227
1967.....	65,857	23,268	613	3,208	19,447	42,589	4,261	13,606	3,525	10,081	3,225	10,099	11,398	2,719	8,679
1968.....	67,951	23,693	606	3,306	19,781	44,258	4,311	14,099	3,611	10,488	3,381	10,622	11,845	2,737	9,109
1969.....	70,442	24,311	619	3,525	20,167	46,130	4,435	14,704	3,733	10,971	3,562	11,228	12,202	2,758	9,444
1970.....	70,920	23,507	623	3,536	19,349	47,412	4,504	15,040	3,816	11,225	3,687	11,621	12,561	2,731	9,830
1971.....	71,222	22,820	609	3,639	18,572	48,401	4,457	15,352	3,823	11,529	3,802	11,903	12,887	2,696	10,192
1972.....	73,714	23,546	625	3,831	19,090	50,167	4,517	15,975	3,943	12,032	3,943	12,392	13,340	2,684	10,656
1973.....	76,896	24,727	644	4,015	20,068	52,169	4,644	16,674	4,107	12,568	4,091	13,021	13,739	2,663	11,075
1974.....	78,413	24,697	694	3,957	20,046	53,715	4,696	17,017	4,223	12,794	4,208	13,617	14,177	2,724	11,453
1975.....	77,051	22,603	745	3,512	18,347	54,448	4,498	17,000	4,177	12,824	4,223	14,006	14,720	2,748	11,973
1976.....	79,443	23,332	783	3,594	18,956	56,111	4,509	17,694	4,263	13,431	4,316	14,644	14,948	2,733	12,215
1977.....	82,142	24,229	831	3,844	19,554	57,912	4,589	18,292	4,389	13,903	4,508	15,333	15,190	2,727	12,463
Mar.....	80,547	23,461	827	3,451	19,183	57,086	4,522	17,799	4,310	13,489	4,422	15,028	15,315	2,714	12,601
Apr.....	81,332	23,846	838	3,681	19,327	57,486	4,538	18,026	4,332	13,694	4,450	15,182	15,290	2,716	12,574
May.....	82,029	24,167	844	3,853	19,470	57,862	4,577	18,176	4,353	13,823	4,476	15,288	15,345	2,728	12,617
June.....	82,930	24,679	870	4,047	19,762	58,251	4,629	18,342	4,409	13,933	4,534	15,458	15,288	2,765	12,523
July.....	82,167	24,551	848	4,148	19,555	57,616	4,604	18,306	4,420	13,886	4,565	15,541	14,600	2,773	11,827
Aug.....	82,397	24,800	833	4,204	19,763	57,597	4,604	18,352	4,429	13,923	4,578	15,587	14,476	2,757	11,719
Sept.....	83,146	24,960	862	4,157	19,941	58,186	4,653	18,463	4,428	14,035	4,554	15,513	15,003	2,717	12,286
Oct.....	83,672	24,907	863	4,161	19,883	58,765	4,638	18,533	4,450	14,083	4,567	15,580	15,447	2,714	12,733
Nov.....	84,092	24,840	865	4,096	19,879	59,252	4,657	18,796	4,469	14,327	4,583	15,608	15,608	2,716	12,892
Dec.....	84,181	24,472	707	3,884	19,881	59,709	4,657	19,269	4,482	14,787	4,597	15,585	15,601	2,724	12,877
1978:															
Jan.....	82,554	23,972	695	3,528	19,749	58,582	4,582	18,532	4,455	14,077	4,588	15,411	15,469	2,711	12,758
Feb.....	82,858	23,987	697	3,505	19,785	58,871	4,596	18,361	4,463	13,898	4,607	15,603	15,704	2,720	12,984
Mar.....	83,680	24,315	715	3,693	19,907	59,365	4,639	18,518	4,493	14,025	4,636	15,752	15,820	2,724	13,096

p = preliminary.

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

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>
-	<b>TOTAL</b> .....	79,734	80,547	82,554	82,858	83,680	-	-	-	-	-
	<b>PRIVATE SECTOR</b> .....	64,488	65,232	67,085	67,154	67,860	52,803	53,481	54,814	54,800	55,448
-	<b>MINING</b> .....	807	827	695	697	715	603	623	505	504	520
10	<b>METAL MINING</b> .....	96.0	96.2	93.4	94.1	-	74.0	74.2	71.8	72.4	-
101	Iron ores .....	25.6	25.7	23.1	23.5	-	20.6	20.7	18.0	18.5	-
102	Copper ores .....	36.4	36.3	36.1	36.2	-	28.0	27.9	28.3	28.3	-
11,12	<b>COAL MINING</b> .....	221.6	232.2	66.1	64.9	-	181.5	191.4	51.0	49.1	-
12	Bituminous coal and lignite mining .....	217.8	228.4	62.2	61.0	-	178.1	188.1	47.7	45.7	-
13	<b>OIL AND GAS EXTRACTION</b> .....	383.5	386.9	425.8	427.2	-	265.1	269.3	296.5	296.9	-
131,2	Crude petroleum and natural gas fields .....	168.3	168.7	179.8	180.8	-	83.1	84.3	88.5	88.5	-
138	Oil and gas field services .....	215.2	218.2	246.0	246.4	-	182.0	185.0	208.0	208.4	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	106.3	112.1	110.0	110.7	-	82.5	88.1	85.7	85.6	-
142	Crushed and broken stone .....	35.6	38.3	37.3	37.1	-	28.4	31.1	30.4	30.0	-
144	Sand and gravel .....	31.1	33.6	32.5	33.0	-	-	-	-	-	-
-	<b>CONTRACT CONSTRUCTION</b> .....	3,251	3,451	3,528	3,505	3,693	2,494	2,688	2,720	2,692	2,870
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	977.8	1,044.3	1,064.3	1,051.0	-	739.3	803.0	803.4	790.8	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	574.6	633.3	618.3	625.8	-	435.1	493.9	482.4	488.7	-
161	Highway and street construction .....	213.7	241.9	225.4	230.0	-	162.1	189.0	170.7	174.8	-
162	Heavy construction, nec .....	360.9	391.4	392.9	395.8	-	273.0	304.9	311.7	313.9	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	1,699.0	1,773.4	1,845.8	1,828.1	-	1,319.1	1,391.1	1,434.5	1,412.1	-
171	Plumbing, heating, air conditioning .....	419.8	426.9	459.4	450.1	-	311.6	318.4	345.5	334.9	-
172	Painting, paper hanging, decorating .....	119.2	126.3	134.2	134.8	-	99.5	105.5	109.1	108.4	-
173	Electrical work .....	312.4	315.0	330.2	322.7	-	241.1	244.4	255.4	247.9	-
174	Masonry, stonework, and plastering .....	180.9	199.6	197.2	202.3	-	153.8	171.9	165.4	169.9	-
176	Roofing and sheet metal work .....	115.6	125.1	126.2	129.4	-	90.5	98.9	98.4	100.8	-
-	<b>MANUFACTURING</b> .....	19,005	19,183	19,749	19,785	19,907	13,600	13,763	14,197	14,226	14,324
19,24,25,32-39,20-23,26-31	<b>DURABLE GOODS</b> .....	11,108	11,246	11,729	11,746	11,831	7,899	8,025	8,420	8,427	8,497
	<b>NONDURABLE GOODS</b> .....	7,897	7,937	8,020	8,039	8,076	5,701	5,738	5,777	5,799	5,827
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES</b> .....	155.8	155.4	156.6	156.4	157.5	69.5	69.4	72.3	72.5	73.3
192	Ammunition, except for small arms .....	101.6	100.4	100.0	99.5	100.1	35.4	34.9	36.7	36.6	37.0
1925	Complete guided missiles .....	84.0	82.8	81.2	80.6	-	22.6	22.1	23.0	22.9	-
1929	Ammunition, exc. for small arms, nec .....	17.6	17.6	18.8	18.9	-	12.8	12.8	13.7	13.7	-
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	606.0	614.0	642.1	642.6	650.3	511.8	520.0	546.5	545.8	552.3
241	Logging camps and logging contractors .....	70.0	68.8	70.1	70.2	69.3	-	-	-	-	-
242	Sawmills and planing mills .....	210.1	212.3	212.5	213.0	216.2	186.5	189.0	189.3	189.4	192.9
2421	Sawmills and planing mills, general .....	178.3	180.5	178.9	178.9	-	158.2	160.6	159.5	159.2	-
243	Millwork, plywood and related products .....	205.9	211.7	233.9	233.5	238.0	170.2	175.7	194.5	193.7	196.7
2431	Millwork .....	95.1	97.1	108.7	108.9	-	77.2	79.2	89.6	89.6	-
2432	Veneer and plywood .....	75.1	75.5	79.6	80.3	-	67.1	67.6	70.5	71.2	-
244	Wooden containers .....	20.8	21.2	20.7	20.5	20.3	18.3	18.6	18.2	17.9	17.7
2441,2	Wooden boxes, shooks, and crates .....	16.6	17.0	16.3	16.3	-	14.7	15.0	14.5	14.4	-
249	Miscellaneous wood products .....	99.2	100.0	104.9	105.4	106.5	81.1	81.7	88.1	88.5	89.6

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>
<b>DURABLE GOODS—Continued</b>											
25	<b>FURNITURE AND FIXTURES</b> .....	493.7	498.4	529.5	531.7	535.6	404.7	409.2	436.5	438.5	442.2
251	Household furniture .....	358.2	360.7	383.1	386.7	389.1	302.9	305.1	324.6	327.8	329.8
2511	Wood household furniture .....	181.8	182.4	196.1	197.0	—	159.5	159.8	171.9	172.6	—
2512	Upholstered household furniture .....	104.8	104.9	112.1	112.9	—	86.1	86.1	92.7	93.5	—
2515	Mattresses and bedsprings .....	32.1	32.4	34.3	34.7	—	24.5	24.9	26.9	27.2	—
252	Office furniture .....	40.2	41.3	44.2	43.9	—	32.3	33.3	35.9	35.7	—
254	Partitions and fixtures .....	51.9	52.7	56.3	56.2	—	38.4	39.3	42.3	42.3	—
253,9	Other furniture and fixtures .....	43.4	43.7	45.9	44.9	45.6	31.1	31.5	33.7	32.7	33.6
<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....											
32	Flat glass .....	597.6	625.9	649.9	650.3	661.5	467.9	495.1	514.6	513.3	523.9
321	Glass and glassware, pressed or blown .....	15.7	15.6	16.8	16.8	—	12.5	12.4	13.5	13.5	—
322	Glass containers .....	127.4	135.2	136.1	135.9	135.8	109.8	117.6	117.2	116.9	116.8
3221	Pressed and blown glass, nec .....	75.8	78.4	78.6	78.1	—	67.7	70.2	69.6	69.0	—
3229	Cement, hydraulic .....	51.6	56.8	57.5	57.8	—	42.1	47.4	47.6	47.9	—
324	Structural clay products .....	27.6	28.9	30.2	29.8	29.9	21.4	22.7	24.0	23.5	23.6
325	Brick and structural clay tile .....	42.6	47.1	50.7	50.7	51.0	32.9	37.3	40.5	40.2	40.3
3251	Pottery and related products .....	18.0	20.8	22.9	22.8	—	14.4	17.1	19.1	18.8	—
326	Concrete, gypsum, and plaster products .....	40.2	40.2	41.6	42.0	—	33.7	33.6	35.2	35.6	—
327	Other stone and nonmetallic mineral products .....	173.9	185.2	194.3	193.8	(*)	131.7	142.3	149.2	147.9	(*)
328,9	Abrasive products .....	132.0	134.7	138.8	139.3	141.9	98.6	101.3	105.4	105.8	108.6
3291	Other stone and nonmetallic mineral products .....	23.8	23.9	25.7	25.7	—	16.7	16.8	18.2	18.3	—
<b>PRIMARY METAL INDUSTRIES</b> .....											
33	Blast furnace and basic steel products .....	1,170.6	1,190.8	1,207.6	1,206.9	1,204.1	910.9	930.5	947.5	947.9	944.8
331	Blast furnaces and steel mills .....	525.5	539.9	535.2	533.2	(*)	405.6	420.3	418.9	417.6	(*)
3312	Iron and steel foundries .....	454.1	467.4	463.9	462.0	—	352.0	365.5	364.6	363.4	—
332	Gray iron foundries .....	215.1	216.6	222.7	224.4	225.0	175.5	176.5	183.0	184.5	184.9
3321	Malleable iron foundries .....	139.5	140.1	144.2	144.8	—	115.8	116.0	120.4	120.9	—
3322	Steel foundries .....	19.5	20.0	19.3	20.0	—	15.7	16.1	15.4	16.1	—
3323	Nonferrous metals .....	56.1	56.5	59.2	59.6	—	44.0	44.4	47.2	47.5	—
333,4	Primary aluminum .....	85.7	85.2	87.5	87.4	87.1	64.8	64.6	66.9	66.7	66.6
3334	Nonferrous rolling and drawing .....	34.3	33.7	35.4	35.4	—	27.8	27.1	28.5	28.5	—
335	Copper rolling and drawing .....	195.4	197.9	198.4	197.8	198.1	144.4	146.3	145.0	144.9	145.3
3351	Aluminum rolling and drawing .....	35.7	36.3	34.4	35.2	—	27.1	27.7	26.4	27.1	—
3352	Nonferrous wire drawing and insulating .....	62.0	63.0	65.2	65.6	—	44.8	45.3	46.8	46.9	—
3357	Nonferrous foundries .....	78.1	78.8	78.9	77.1	—	58.7	59.4	58.9	57.2	—
336	Aluminum castings .....	80.1	81.4	87.2	87.6	87.8	66.3	67.6	72.6	73.3	73.1
3361	Other nonferrous castings .....	44.2	45.4	49.1	49.5	—	37.1	38.4	41.3	41.9	—
3362,9	Miscellaneous primary metal products .....	35.9	36.0	38.1	38.1	—	29.2	29.2	31.3	31.4	—
339	Iron and steel forgings .....	68.8	69.8	76.6	76.5	77.4	54.3	55.2	61.1	60.9	61.5
3391	Other iron and steel products .....	43.5	43.9	48.7	48.6	—	34.6	34.9	39.2	38.9	—
<b>FABRICATED METAL PRODUCTS</b> .....											
34	Metal cans .....	1,397.7	1,415.9	1,487.4	1,489.7	1,495.1	1,053.5	1,069.2	1,132.2	1,132.6	1,136.2
341	Cutlery, hand tools, and hardware .....	58.9	61.8	59.2	60.0	61.2	49.9	53.1	49.9	50.8	51.7
342	Cutlery and hand tools, including saws .....	171.5	172.7	183.5	184.3	185.8	133.8	134.8	144.7	145.5	146.1
3421,3,5	Hardware, nec .....	69.9	70.5	73.9	74.6	—	54.1	54.6	57.7	58.3	—
3429	Plumbing and heating, except electric .....	101.6	102.2	109.6	109.7	—	79.7	80.2	87.0	87.2	—
343	Sanitary ware and plumbers' brass goods .....	72.0	73.1	78.0	79.1	79.1	53.8	54.4	58.4	59.2	59.1
3431,2	Heating equipment, except electric .....	32.5	32.9	34.4	35.3	—	25.3	25.5	26.7	27.4	—
3433	Fabricated structural metal products .....	39.5	40.2	43.6	43.8	—	28.5	28.9	31.7	31.8	—
344	Fabricated structural steel .....	444.7	450.1	480.6	479.0	478.7	306.7	311.7	338.4	336.3	335.9
3441	Metal doors, sash, and trim .....	93.4	94.5	96.4	95.9	—	65.2	66.5	68.9	68.2	—
3442	Fabricated plate work (boiler shops) .....	69.1	71.5	82.7	81.4	—	50.3	52.5	62.5	61.3	—
3443	Sheet metal work .....	136.5	136.4	139.9	140.5	—	88.1	87.9	91.1	91.4	—
3444	Architectural and miscellaneous metal work .....	88.4	89.9	98.9	98.7	—	64.2	65.4	72.5	72.2	—
3446,9	Screw machine products, bolts, etc .....	57.3	57.8	62.7	62.5	—	38.9	39.4	43.4	43.2	—
345	Screw machine products .....	103.0	103.9	109.5	111.0	111.5	80.5	81.1	85.8	87.2	88.4
3451	Bolts, nuts, rivets, and washers .....	49.1	49.8	54.0	55.3	—	40.5	41.0	44.3	45.5	—
3452	Metal stampings .....	53.9	54.1	55.5	55.7	—	40.0	40.1	41.5	41.7	—
346	Metal services, nec .....	228.4	230.8	240.2	237.4	237.7	186.0	188.1	197.4	193.7	193.4
347	Miscellaneous fabricated wire products .....	92.0	93.6	98.3	99.2	100.7	75.0	76.5	80.9	81.7	83.2
348	Miscellaneous fabricated metal products .....	58.7	60.2	61.4	61.9	62.6	45.6	46.5	48.2	48.7	49.1
349	Valves, pipe, and pipe fittings .....	168.5	169.7	176.7	177.8	177.8	122.2	123.0	128.5	129.5	129.3
3494,8	Other metal products .....	111.1	111.7	117.0	117.8	—	76.5	77.0	81.1	81.8	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	Feb. 1977	Mar. 1977	Jan. 1978 <sup>p</sup>	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>
<b>DURABLE GOODS—Continued</b>											
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2, 140. 6	2, 148. 1	2, 273. 8	2, 288. 6	2, 299. 9	1, 384. 5	1, 391. 4	1, 492. 7	1, 504. 8	1, 512. 9
351	Engines and turbines	115. 1	115. 3	121. 1	120. 9	120. 7	74. 6	74. 9	78. 3	78. 0	77. 6
3511	Steam engines and turbines	42. 7	42. 7	42. 5	42. 5	—	22. 5	22. 6	22. 1	22. 0	—
3519	Internal combustion engines, nec	72. 4	72. 6	78. 6	78. 4	—	52. 1	52. 3	56. 2	56. 0	—
352	Farm machinery	149. 1	149. 3	142. 8	147. 4	—	104. 7	105. 0	97. 8	102. 1	—
353	Construction and related machinery	338. 0	338. 3	367. 1	368. 0	372. 7	218. 4	218. 3	243. 3	244. 5	246. 9
3531,2	Construction and mining machinery	175. 1	175. 2	187. 3	187. 4	—	112. 7	112. 7	124. 1	124. 8	—
3533	Oil field machinery	69. 5	69. 7	77. 6	77. 6	—	48. 9	48. 9	54. 7	54. 6	—
3535,6	Conveyors, hoists, cranes, monorails	48. 9	48. 6	51. 7	51. 9	—	28. 7	28. 4	31. 2	31. 3	—
3537	Industrial trucks and tractors	32. 6	32. 8	37. 8	38. 3	—	21. 6	21. 8	26. 2	26. 6	—
354	Metal working machinery	321. 6	323. 7	342. 9	344. 8	346. 9	236. 1	238. 0	254. 3	256. 5	257. 8
3541	Machine tools, metal cutting types	61. 9	62. 3	66. 3	66. 7	—	40. 4	40. 8	44. 2	44. 7	—
3544	Special dies, tools, jigs, and fixtures	129. 4	130. 9	139. 7	140. 4	—	104. 1	105. 4	113. 8	114. 1	—
3545	Machine tool accessories	56. 1	56. 3	60. 1	60. 4	—	40. 0	40. 2	42. 7	43. 2	—
3542,8	Miscellaneous metal working machinery	74. 2	74. 2	76. 8	77. 3	—	51. 6	51. 6	53. 6	54. 5	—
355	Special industry machinery	177. 6	177. 3	181. 8	182. 4	182. 4	113. 1	112. 9	116. 4	116. 9	116. 8
3551	Food products machinery	41. 7	41. 8	42. 9	43. 1	—	27. 1	27. 1	27. 4	27. 5	—
3552	Textile machinery	30. 3	30. 2	30. 4	30. 2	—	21. 7	21. 7	22. 1	21. 8	—
3555	Printing trades machinery	25. 9	26. 0	28. 0	28. 3	—	15. 1	15. 3	17. 0	17. 0	—
356	General industrial machinery	294. 1	294. 3	305. 8	307. 7	310. 2	193. 1	193. 5	202. 9	204. 5	205. 8
3561	Pumps and compressors	84. 3	84. 4	87. 0	87. 3	—	50. 8	51. 0	53. 2	53. 4	—
3562	Ball and roller bearings	54. 8	54. 9	59. 6	60. 2	—	41. 8	41. 9	45. 1	45. 8	—
3564	Blowers and fans	35. 6	35. 4	36. 2	36. 4	—	22. 8	22. 7	23. 4	23. 4	—
3566	Power transmission equipment	47. 1	47. 3	48. 4	48. 6	—	32. 8	33. 2	34. 7	34. 9	—
357	Office and computing machines	309. 7	310. 8	343. 3	347. 8	347. 6	125. 2	124. 4	146. 8	148. 9	149. 5
3573	Electronic computing equipment	235. 5	237. 5	267. 8	271. 5	—	81. 9	82. 5	102. 5	104. 2	—
358	Service industry machines	169. 8	172. 0	183. 1	184. 4	185. 8	117. 3	119. 8	131. 1	131. 8	132. 6
3585	Refrigeration machinery	119. 3	121. 5	129. 0	131. 3	—	84. 1	86. 3	94. 2	95. 4	—
359	Miscellaneous machinery, except electrical	265. 6	267. 1	285. 9	285. 2	287. 5	202. 0	204. 6	221. 8	221. 6	224. 2
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	1, 878. 9	1, 886. 6	1, 996. 5	2, 004. 6	2, 018. 0	1, 242. 3	1, 248. 8	1, 328. 1	1, 335. 7	1, 345. 6
361	Electric test and distributing equipment	197. 6	198. 8	213. 7	216. 1	218. 7	132. 9	134. 2	145. 1	148. 7	150. 3
3611	Electric measuring instruments	73. 6	74. 3	82. 3	84. 1	—	44. 7	45. 2	49. 9	52. 4	—
3612	Transformers	48. 5	48. 5	52. 4	52. 6	—	34. 7	35. 0	38. 6	38. 9	—
3613	Switchgear and switchboard apparatus	75. 5	76. 0	79. 0	79. 4	—	53. 5	54. 0	56. 6	57. 4	—
362	Electrical industrial apparatus	219. 4	220. 6	229. 8	230. 8	231. 4	156. 5	157. 5	163. 7	164. 8	164. 9
3621	Motors and generators	107. 0	107. 7	112. 5	113. 6	—	80. 3	80. 5	85. 3	86. 2	—
3622	Industrial controls	70. 2	70. 1	72. 9	72. 7	—	46. 0	46. 3	46. 8	46. 7	—
3623	Household appliances	170. 2	169. 8	180. 8	181. 1	184. 1	132. 1	132. 8	142. 3	142. 4	145. 5
3632	Household refrigerators and freezers	37. 3	38. 0	40. 1	40. 9	—	28. 3	29. 3	31. 4	32. 1	—
3633	Household laundry equipment	25. 5	26. 3	26. 6	27. 0	—	20. 0	20. 7	20. 8	21. 1	—
3634	Electric housewares and fans	50. 1	51. 5	52. 5	51. 8	—	39. 6	41. 0	41. 9	41. 3	—
364	Electric lighting and wiring equipment	201. 6	204. 3	213. 3	213. 8	215. 0	154. 3	156. 3	163. 0	163. 2	164. 4
3641	Electric lamps	37. 4	37. 2	38. 5	38. 0	—	33. 3	33. 0	34. 1	33. 6	—
3642	Lighting fixtures	65. 2	66. 3	68. 9	69. 0	—	50. 3	51. 2	53. 1	53. 4	—
3643,4	Wiring devices	99. 0	100. 8	105. 9	106. 8	—	70. 7	72. 1	75. 8	76. 2	—
365	Radio and TV receiving equipment	127. 6	128. 1	137. 6	136. 5	(*)	90. 0	90. 4	101. 7	100. 2	(*)
366	Communication equipment	428. 5	429. 9	455. 0	457. 6	(*)	213. 4	214. 1	228. 5	230. 3	(*)
3661	Telephone and telegraph apparatus	140. 2	141. 1	149. 9	150. 1	—	93. 5	93. 8	103. 1	103. 7	—
3662	Radio and TV communication equipment	288. 3	288. 8	305. 1	307. 5	—	119. 9	120. 3	125. 4	126. 6	—
367	Electronic components and accessories	383. 8	383. 9	400. 7	404. 2	406. 0	245. 8	245. 7	256. 1	259. 4	260. 4
3671-3	Electron tubes	41. 9	42. 0	43. 1	43. 4	—	26. 8	26. 9	28. 3	28. 6	—
3674,9	Other electronic components	341. 9	341. 9	357. 6	360. 8	—	219. 0	218. 8	227. 8	230. 8	—
369	Miscellaneous electrical equipment and supplies	150. 2	151. 2	165. 6	164. 5	164. 4	117. 3	117. 8	127. 7	126. 7	126. 6
3694	Engine electrical equipment	79. 0	78. 8	85. 8	85. 0	—	64. 1	63. 6	68. 7	68. 1	—
37	<b>TRANSPORTATION EQUIPMENT</b>	1, 735. 8	1, 775. 4	1, 843. 2	1, 824. 5	1, 850. 6	1, 223. 9	1, 256. 9	1, 314. 5	1, 294. 9	1, 318. 5
371	Motor vehicles and equipment	842. 7	871. 2	924. 7	902. 9	(*)	651. 7	677. 8	722. 8	703. 0	(*)
3711	Motor vehicles	334. 2	356. 1	382. 9	372. 2	—	245. 0	265. 0	287. 3	276. 4	—
3712	Passenger car bodies	47. 0	47. 1	46. 1	40. 1	—	36. 2	36. 2	35. 4	30. 0	—
3713	Truck and bus bodies	40. 0	40. 7	44. 8	45. 2	—	30. 8	31. 6	35. 7	36. 0	—
3714	Motor vehicle parts and accessories	397. 4	402. 6	423. 0	417. 0	—	321. 1	325. 8	342. 7	338. 4	—
3715	Truck trailers	24. 1	24. 7	27. 9	28. 4	—	18. 6	19. 2	21. 7	22. 2	—
372	Aircraft and parts	482. 5	476. 2	494. 1	491. 0	490. 6	247. 7	241. 4	257. 6	252. 7	249. 6
3721	Aircraft	259. 8	260. 2	261. 1	255. 8	—	123. 3	122. 7	124. 0	117. 9	—
3722	Aircraft engines and engine parts	132. 4	125. 3	137. 1	138. 7	—	70. 3	64. 1	75. 1	75. 7	—
3723,9	Other aircraft parts and equipment	90. 3	90. 7	95. 9	96. 5	—	54. 1	54. 6	58. 5	59. 1	—
373	Ship and boat building and repairing	220. 7	227. 3	225. 5	225. 9	(*)	176. 1	180. 3	178. 9	178. 8	(*)
3731	Ship building and repairing	170. 2	175. 5	177. 6	177. 0	—	134. 6	137. 4	139. 8	139. 0	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>F</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
3732	Boat building and repairing .....	50.5	51.8	47.9	48.9	—	41.5	42.9	39.1	39.8	—
374	Railroad equipment .....	45.0	45.9	41.6	(*)	—	33.2	33.9	29.8	(*)	—
375,9	Other transportation equipment .....	144.9	154.8	157.3	162.9	—	115.2	123.5	125.4	130.2	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	521.1	521.8	537.5	539.1	540.4	318.2	319.2	329.4	329.2	329.2
381	Engineering and scientific instruments .....	58.5	58.5	61.6	62.3	—	27.5	27.5	29.4	29.7	—
382	Mechanical measuring and control devices .....	120.5	120.1	127.9	127.8	128.0	77.7	77.4	83.6	82.7	81.8
3821	Mechanical measuring devices .....	78.9	79.6	84.2	84.0	—	48.0	48.7	52.2	51.4	—
3822	Automatic temperature controls .....	41.6	40.5	43.7	43.8	—	29.7	28.7	31.4	31.3	—
383,5	Optical and ophthalmic goods .....	68.0	68.1	71.3	71.4	71.7	46.0	45.7	48.3	47.9	47.8
385	Ophthalmic goods .....	44.0	43.9	44.9	44.9	—	31.7	31.5	33.1	32.7	—
384	Medical instruments and supplies .....	113.4	114.3	119.8	120.7	121.7	76.2	77.9	80.2	80.6	81.2
386	Photographic equipment and supplies .....	130.3	130.5	128.4	128.3	(*)	66.8	66.9	66.0	66.3	(*)
387	Watches, clocks, and watchcases .....	30.4	30.3	28.5	28.6	—	24.0	23.8	21.9	22.0	—
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>											
39	<b>INDUSTRIES</b> .....	409.7	413.5	404.5	411.4	417.8	311.8	315.1	305.5	311.8	317.6
391	Jewelry, silverware, and plated ware .....	54.1	54.2	56.3	56.0	57.1	39.7	39.5	41.2	40.8	42.0
394	Toys and sporting goods .....	112.8	115.6	102.4	106.6	—	85.7	88.5	75.5	79.3	—
3941,3	Games, toys, dolls, and play vehicles .....	57.0	58.4	48.4	52.2	—	40.9	42.7	33.2	36.9	—
3949	Sporting and athletic goods, nec .....	55.8	57.2	54.0	54.4	—	44.8	45.8	42.3	42.4	—
395	Pens, pencils, office, and art supplies .....	33.2	33.4	33.2	33.3	—	23.5	23.8	23.9	24.1	—
396	Costume jewelry and notions .....	51.3	50.9	50.2	51.7	—	41.5	41.0	40.4	41.6	—
393,9	Other manufacturing industries .....	158.3	159.4	162.4	163.8	165.5	121.4	122.3	124.5	126.0	127.1
393	Musical instruments and parts .....	23.6	23.7	24.2	24.3	—	19.4	19.2	19.6	20.0	—
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	1,652.5	1,661.4	1,664.0	1,652.5	1,662.2	1,105.8	1,114.0	1,113.3	1,105.7	1,111.0
201	Meat products .....	355.5	353.8	362.7	361.0	360.1	291.7	290.1	298.8	297.0	296.0
2011	Meat packing plants .....	173.3	169.7	172.0	171.2	—	138.6	135.6	137.7	136.8	—
2013	Sausages and other prepared meats .....	66.7	66.9	68.1	67.4	—	47.6	47.7	49.9	49.3	—
2015	Poultry dressing plants .....	115.5	117.2	122.6	122.4	—	105.5	106.8	111.2	110.9	—
202	Dairy products .....	188.1	190.4	189.7	189.0	191.0	96.7	98.9	97.9	98.0	99.2
2024	Ice cream and frozen desserts .....	20.4	21.4	20.9	21.1	—	10.9	11.7	11.2	11.5	—
2026	Fluid milk .....	122.4	122.8	123.5	123.0	—	51.6	52.0	53.0	52.8	—
203	Canned, cured, and frozen foods .....	247.5	255.6	235.9	234.9	—	198.4	206.9	185.4	184.4	—
2031,6	Canned, cured, and frozen sea foods .....	39.6	43.0	39.1	38.3	—	34.2	37.8	33.5	33.1	—
2032,3	Canned food, except sea foods .....	107.3	107.7	103.8	103.0	—	81.9	82.1	76.4	75.2	—
2037	Frozen fruits and vegetables .....	60.3	65.0	54.3	55.4	—	51.5	56.7	46.4	47.7	—
204	Grain mill products .....	147.6	146.9	145.8	146.7	(*)	101.5	101.5	100.7	101.4	(*)
2041	Flour and other grain mill products .....	28.1	28.2	29.0	29.1	—	18.8	19.0	19.8	19.8	—
2042	Prepared feeds for animals and fowls .....	75.6	74.5	73.4	73.9	—	49.7	49.4	48.4	48.8	—
205	Bakery products .....	236.6	237.9	239.3	234.2	235.9	135.8	136.9	139.1	136.5	137.7
2051	Bread, cake, and related products .....	197.7	197.8	200.7	195.4	—	104.7	104.6	107.9	105.2	—
2052	Cookies and crackers .....	38.9	40.1	38.6	38.8	—	31.1	32.3	31.2	31.3	—
206	Sugar .....	32.9	27.7	31.5	29.7	—	25.3	20.3	24.0	21.6	—
207	Confectionery and related products .....	77.4	77.9	78.6	77.9	(*)	59.3	59.4	60.6	60.4	(*)
2071	Confectionery products .....	55.5	55.8	57.5	57.2	—	43.8	43.7	45.6	45.6	—
208	Beverages .....	220.6	224.3	230.8	229.4	231.7	102.3	105.1	109.0	108.1	109.3
2082	Malt liquors .....	47.0	48.7	48.6	47.9	—	33.0	34.4	33.8	32.9	—
2086	Bottled and canned soft drinks .....	130.1	131.2	136.6	136.4	—	45.9	46.2	48.8	48.9	—
209	Miscellaneous foods and kindred products .....	146.3	146.9	149.7	149.7	149.8	94.8	94.9	97.8	98.3	98.3
21	<b>TOBACCO MANUFACTURES</b> .....	71.4	63.9	69.3	67.1	64.9	57.9	51.3	55.5	53.3	51.2
211	Cigarettes .....	44.6	39.5	44.2	44.0	—	36.0	31.5	34.4	34.1	—
212	Cigars .....	10.0	9.8	9.4	9.4	—	8.6	8.5	8.2	8.2	—
22	<b>TEXTILE MILL PRODUCTS</b> .....	962.8	969.8	987.0	988.4	989.7	838.9	845.8	859.1	862.1	863.7
221	Weaving mills, cotton .....	174.4	173.0	169.0	168.2	167.7	158.0	156.5	152.2	151.3	150.8
222	Weaving mills, synthetics .....	121.5	120.6	119.3	118.7	118.3	109.2	108.2	106.7	106.4	106.2
223	Weaving and finishing mills, wool .....	23.3	23.4	22.5	22.4	22.6	19.5	19.7	18.9	18.8	19.0
224	Narrow fabric mills .....	25.5	25.8	27.3	27.5	27.5	22.0	22.5	24.0	24.2	24.2
225	Knitting mills .....	258.5	263.3	272.5	275.9	278.0	221.8	226.7	234.1	238.9	240.6
2251	Women's hosiery, except socks .....	38.5	38.2	39.7	39.8	—	34.1	33.9	35.3	35.5	—
2252	Hosiery, nec .....	34.5	35.1	37.2	37.9	—	30.7	31.3	33.7	34.4	—
2253	Knit outerwear mills .....	76.5	78.6	78.7	81.2	—	64.7	66.9	66.8	69.1	—
2254	Knit underwear mills .....	39.2	40.4	43.8	43.2	—	33.9	35.0	37.0	37.7	—

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>					
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	
	<b>NONDURABLE GOODS—Continued</b>											
	<b>TEXTILE MILL PRODUCTS—Continued</b>											
226	Textile finishing, except wool .....	78.9	79.9	81.4	81.4	81.4	66.6	67.7	68.9	69.1	69.1	
227	Floor covering mills .....	62.0	62.9	66.2	64.9	—	49.2	49.7	52.8	51.5	—	
228	Yarn and thread mills .....	152.7	154.1	160.3	161.6	161.8	139.6	141.0	146.3	147.5	147.7	
229	Miscellaneous textile goods .....	66.0	66.8	68.5	67.8	67.8	53.0	53.8	55.2	54.4	54.9	
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,277.8	1,286.9	1,262.0	1,278.1	1,291.5	1,095.2	1,104.9	1,081.2	1,097.2	1,110.4	
231	Men's and boys' suits and coats .....	88.7	87.6	97.5	86.7	84.4	78.4	77.4	76.4	75.8	74.1	
232	Men's and boys' furnishings .....	378.0	380.5	376.1	381.6	380.6	323.0	325.4	323.4	329.3	328.6	
2321	Men's and boys' shirts and nightwear .....	113.5	114.3	108.3	108.9	—	98.3	99.1	93.5	94.0	—	
2327	Men's and boys' separate trousers .....	85.5	86.6	84.4	85.8	—	74.5	75.4	73.6	75.4	—	
2328	Men's and boys' work clothing .....	96.4	96.2	99.2	100.1	—	78.7	79.1	83.8	84.8	—	
233	Women's and misses' outerwear .....	378.5	382.7	355.1	363.6	372.9	329.5	334.4	307.7	314.7	324.5	
2331	Women's and misses' blouses and waists .....	48.3	48.6	47.3	47.6	—	42.4	42.6	41.2	41.7	—	
2335	Women's and misses' dresses .....	164.8	170.8	150.5	154.1	—	145.7	152.1	133.3	136.5	—	
2337	Women's and misses' suits and coats .....	52.6	50.4	44.7	46.2	—	43.9	41.9	36.9	38.3	—	
2339	Women's and misses' outerwear, nec .....	112.8	112.9	112.6	114.7	—	97.5	97.8	96.3	98.2	—	
234	Women's and children's undergarments .....	99.7	100.5	99.7	100.9	102.0	84.7	85.4	84.6	85.9	86.9	
2341	Women's and children's underwear .....	75.8	76.6	75.8	77.6	—	65.6	66.3	65.4	67.1	—	
2342	Corsets and allied garments .....	23.9	23.9	23.9	23.3	—	19.1	19.1	19.2	18.8	—	
235	Hats, caps, and millinery .....	16.2	16.4	16.0	16.7	—	14.2	14.4	14.2	14.8	—	
236	Children's outerwear .....	76.8	75.5	74.7	75.8	75.4	65.7	64.5	63.5	64.9	64.0	
2361	Children's dresses and blouses .....	30.9	30.5	29.3	29.3	—	27.8	27.5	26.6	26.7	—	
237,8	Fur goods and miscellaneous apparel .....	66.1	67.2	66.5	68.0	—	56.9	57.8	56.4	57.8	—	
239	Miscellaneous fabricated textile products .....	173.8	176.5	186.4	185.8	190.0	142.8	145.6	155.0	154.0	158.1	
2391,2	Housefurnishings .....	74.7	74.7	81.5	81.8	—	62.2	62.1	69.1	69.1	—	
26	<b>PAPER AND ALLIED PRODUCTS</b>	680.3	682.9	702.5	703.2	706.6	511.3	512.3	525.3	527.8	528.4	
261,2,6	Paper and pulp mills .....	197.9	198.8	200.2	200.0	200.2	151.2	151.8	152.2	152.1	152.0	
263	Paperboard mills .....	71.7	70.7	70.5	70.2	70.6	56.5	55.2	55.8	55.6	55.8	
264	Miscellaneous converted paper products .....	201.6	203.2	211.3	212.8	215.0	142.3	143.2	146.9	149.7	150.9	
2643	Bags, except textile bags .....	44.3	44.4	47.1	47.4	—	35.4	35.4	37.3	37.4	—	
265	Paperboard containers and boxes .....	209.1	210.2	220.5	220.2	220.8	161.3	162.1	170.4	170.4	169.7	
2651,2	Folding and setup paperboard boxes .....	58.0	58.6	59.6	58.9	—	46.6	46.9	47.5	47.1	—	
2653	Corrugated and solid fiber boxes .....	102.3	103.0	107.8	108.1	—	74.7	75.5	79.6	79.6	—	
2654	Sanitary food containers .....	31.2	31.1	35.2	35.1	—	25.8	25.5	29.3	29.4	—	
27	<b>PRINTING AND PUBLISHING</b>	1,094.2	1,096.4	1,122.8	1,126.7	1,128.7	632.8	634.7	640.4	642.8	644.2	
271	Newspapers .....	390.0	388.6	396.4	397.0	397.1	166.8	165.2	161.3	160.5	160.7	
272	Periodicals .....	71.6	71.6	75.0	74.9	—	19.6	20.0	20.5	20.3	—	
273	Books .....	89.1	90.9	90.2	91.2	—	47.6	48.7	47.5	48.2	—	
275	Commercial printing .....	361.0	362.2	369.0	371.1	370.6	270.0	271.2	275.6	277.5	277.0	
2751	Commercial printing, except lithographic .....	205.1	205.0	206.4	207.5	—	156.1	155.9	155.8	156.9	—	
2752	Commercial printing, lithographic .....	145.3	146.3	151.7	152.2	—	105.7	106.6	111.1	111.3	—	
278	Blankbooks and bookbinding .....	50.5	50.7	53.0	53.0	53.3	41.1	41.2	43.3	43.3	43.5	
274,6,7,9	Other publishing and printing ind .....	132.0	132.4	139.2	139.5	140.3	87.7	88.4	92.2	93.0	93.1	
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1,041.0	1,047.5	1,057.8	1,062.1	1,069.1	594.6	600.5	608.4	611.2	616.8	
281	Industrial chemicals .....	340.7	341.1	348.2	349.3	350.2	181.6	183.0	189.7	190.5	190.9	
2812	Alkalies and chlorine .....	20.6	20.6	21.0	21.0	—	15.1	15.3	15.2	15.1	—	
2818	Industrial organic chemicals, nec .....	140.9	140.3	142.9	142.4	—	64.2	64.2	69.1	68.8	—	
2819	Industrial inorganic chemicals, nec .....	112.4	113.1	117.0	118.0	—	60.1	61.3	63.5	64.0	—	
282	Plastics materials and synthetics .....	203.2	203.4	201.6	202.2	201.3	136.1	136.5	136.4	137.8	136.9	
2821	Plastics materials and resins .....	88.8	88.7	89.4	89.3	—	55.9	55.7	55.7	55.9	—	
2823,4	Synthetic fibers .....	101.0	101.4	98.2	99.0	—	70.0	70.7	70.1	71.5	—	
283	Drugs .....	172.0	172.9	176.0	176.1	(*)	86.6	87.4	86.6	86.0	(*)	
2834	Pharmaceutical preparations .....	137.5	138.5	140.8	140.8	—	67.0	68.0	67.0	66.5	—	
284	Soap, cleaners, and toilet goods .....	122.9	122.7	125.3	125.8	128.5	73.4	72.9	75.8	75.9	78.3	
2841	Soap and other detergents .....	40.2	39.9	40.5	40.4	—	26.4	26.1	26.6	26.4	—	
2844	Toilet preparations .....	48.9	49.2	50.6	51.0	—	29.3	29.3	31.0	31.1	—	
285	Paints and allied products .....	65.6	69.0	69.4	70.5	70.7	34.5	36.3	36.5	36.7	37.0	
287	Agricultural chemicals .....	57.7	59.8	57.1	58.0	59.8	36.2	38.3	35.6	36.5	38.1	
2871,2	Fertilizers, complete and mixing only .....	34.4	36.2	33.7	34.6	—	23.7	25.5	22.4	23.3	—	
286,9	Other chemical products .....	78.9	78.6	80.2	80.2	80.8	46.2	46.1	47.8	47.8	48.5	
2892	Explosives .....	13.4	13.5	13.6	13.4	—	8.5	8.7	9.3	9.2	—	
29	<b>PETROLEUM AND COAL PRODUCTS</b>	198.9	202.0	209.0	210.1	211.6	126.2	129.8	137.0	137.8	139.1	
291	Petroleum refining .....	154.8	156.5	161.1	161.8	162.3	94.6	96.7	102.0	102.6	103.0	
295,9	Other petroleum and coal products .....	44.1	45.5	47.9	48.3	49.3	31.6	33.1	35.0	35.2	36.1	

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>
<b>NONDURABLE GOODS—Continued</b>											
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC.</b> . . . . .	655.8	661.4	688.6	690.2	690.7	513.9	518.2	538.0	539.2	539.8
301	Tires and inner tubes . . . . .	121.0	121.8	119.9	119.2	116.0	90.1	90.3	87.6	86.7	84.4
302,3,3	Other rubber products . . . . .	170.7	171.1	173.3	173.0	173.1	134.0	134.3	135.9	135.7	135.8
302	Rubber footwear . . . . .	21.1	20.9	19.7	19.9	—	18.1	18.0	17.0	17.3	—
307	Miscellaneous plastics products . . . . .	364.1	368.5	395.4	398.0	401.6	289.8	293.6	314.5	316.8	319.6
31	<b>LEATHER AND LEATHER PRODUCTS</b> . . . . .	262.4	264.8	257.2	260.5	261.1	224.3	226.9	219.2	221.6	222.7
311	Leather tanning and finishing . . . . .	23.2	23.5	23.2	23.1	22.8	19.8	20.1	19.8	19.7	19.5
314	Footwear, except rubber . . . . .	161.9	163.1	160.6	162.4	162.2	140.9	142.0	140.3	141.5	141.5
312,3,5-7,9	Other leather products . . . . .	77.3	78.2	73.4	75.0	76.1	63.6	64.8	59.1	60.4	61.7
316	Luggage . . . . .	17.8	18.3	16.2	17.1	—	14.0	14.7	12.1	13.0	—
317	Handbags and personal leather goods . . . . .	36.2	36.1	32.7	33.2	—	30.2	30.1	26.5	27.0	—
—	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> . . . . .	4,494	4,522	4,582	4,596	4,639	3,824	3,851	3,866	3,871	3,911
40	<b>RAILROAD TRANSPORTATION</b> . . . . .	519.9	523.4	506.5	503.3	—	—	—	—	—	—
4011	Class I railroads <sup>2</sup> . . . . .	483.3	486.7	464.0	460.9	—	—	—	—	—	—
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> . . . . .	275.1	274.3	264.1	265.1	—	—	—	—	—	—
411	Local and suburban transportation . . . . .	71.6	70.3	71.3	71.6	—	66.5	65.7	65.3	65.5	—
412	Taxicabs . . . . .	77.8	75.7	69.5	70.0	—	—	—	—	—	—
413	Intercity highway transportation . . . . .	36.9	37.3	36.8	35.4	—	33.2	33.7	33.5	32.1	—
42	<b>TRUCKING AND WAREHOUSING</b> . . . . .	1,085.3	1,101.9	1,120.9	1,127.6	—	958.3	975.6	988.3	994.0	—
421,3	Trucking and trucking terminals . . . . .	993.1	1,009.3	1,026.8	1,033.1	—	879.1	896.0	907.4	912.7	—
422	Public warehousing . . . . .	92.2	92.6	94.1	94.5	—	79.2	79.6	80.9	81.3	—
45	<b>TRANSPORTATION BY AIR</b> . . . . .	371.9	372.9	385.2	385.6	—	—	—	—	—	—
451,2	Air transportation . . . . .	336.2	337.3	347.8	347.6	—	—	—	—	—	—
46	<b>PIPELINE TRANSPORTATION</b> . . . . .	16.4	16.5	16.0	15.9	—	11.9	12.1	11.6	11.6	—
44,47	<b>OTHER TRANSPORTATION AND SERVICES</b> . . . . .	338.6	344.4	363.2	354.9	—	—	—	—	—	—
44	<b>WATER TRANSPORTATION</b> . . . . .	187.9	191.6	200.2	191.6	—	—	—	—	—	—
47	<b>TRANSPORTATION SERVICES</b> . . . . .	150.7	152.8	163.0	163.3	—	—	—	—	—	—
48	<b>COMMUNICATION</b> . . . . .	1,151.0	1,153.1	1,178.3	1,191.5	—	882.1	883.3	893.9	902.5	—
481	Telephone communication . . . . .	938.9	939.8	957.6	969.5	—	710.5	710.3	715.9	723.9	—
482	Telegraph communication <sup>3</sup> . . . . .	(*)	17.6	18.4	18.4	—	(*)	14.4	14.6	14.8	—
483	Radio and television broadcasting . . . . .	159.5	160.3	164.9	165.8	—	127.2	127.9	130.5	131.1	—
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> . . . . .	735.8	735.0	747.7	752.0	—	608.8	607.3	612.9	615.4	—
491	Electric companies and systems . . . . .	315.0	315.5	322.0	326.0	—	258.8	258.7	263.3	265.2	—
492	Gas companies and systems . . . . .	158.1	155.7	157.5	157.4	—	130.2	127.9	129.2	128.7	—
493	Combination companies and systems . . . . .	194.1	194.2	195.8	196.1	—	161.0	160.9	159.7	159.7	—
494-7	Water, steam, and sanitary systems . . . . .	68.6	69.6	72.4	72.5	—	58.8	59.8	61.7	61.8	—
—	<b>WHOLESALE AND RETAIL TRADE</b> . . . . .	17,653	17,799	18,532	18,361	18,518	15,563	15,694	16,318	16,123	16,267
50	<b>WHOLESALE TRADE</b> . . . . .	4,291	4,310	4,455	4,463	4,493	3,545	3,562	3,666	3,666	3,695
501	Motor vehicles and automotive equipment . . . . .	383.7	384.9	400.9	400.4	—	313.5	315.3	327.8	326.6	—
502	Drugs, chemicals, and allied products . . . . .	242.7	243.4	250.0	249.5	—	191.4	192.3	198.4	198.6	—
503	Dry goods and apparel . . . . .	157.9	159.6	157.9	158.0	—	121.8	122.7	121.9	121.8	—
504	Groceries and related products . . . . .	608.3	610.2	623.5	625.1	—	526.2	528.9	540.3	541.1	—
506	Electrical goods . . . . .	320.1	322.3	343.3	341.1	—	272.7	273.9	282.5	280.0	—
507	Hardware; plumbing and heating equipment . . . . .	187.6	188.7	198.9	199.1	—	155.1	156.5	165.0	164.7	—
508	Machinery, equipment, and supplies . . . . .	904.4	911.6	953.5	957.6	—	747.4	753.5	786.4	786.3	—
509	Miscellaneous wholesalers . . . . .	1,373.8	1,376.7	1,411.4	1,415.2	—	1,125.1	1,127.2	1,149.6	1,152.2	—
52-59	<b>RETAIL TRADE</b> . . . . .	13,362	13,489	14,077	13,898	14,025	12,018	12,132	12,652	12,457	12,572
53	Retail General Merchandise . . . . .	2,410.0	2,424.1	2,663.5	2,523.3	—	2,212.1	2,226.1	2,468.5	2,327.0	—
531	Department stores . . . . .	1,649.6	1,655.1	1,858.2	1,744.9	—	1,526.4	1,532.1	1,739.0	1,626.0	—
532	Mail order houses . . . . .	107.5	106.9	117.9	106.8	—	101.5	101.2	114.0	101.7	—
533	Variety stores . . . . .	294.1	298.1	308.5	300.1	—	272.7	277.5	287.6	278.0	—
54	<b>FOOD STORES</b> . . . . .	2,094.9	2,099.6	2,155.9	2,159.0	—	1,934.9	1,940.8	1,991.1	1,993.5	—
541-3	Grocery, meat, and vegetable stores . . . . .	1,907.7	1,909.6	1,964.6	1,964.6	—	1,762.3	1,765.2	1,816.5	1,815.5	—

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
	<b>WHOLESALE AND RETAIL TRADE—Continued</b>										
56	<b>APPAREL AND ACCESSORY STORES</b> .....	791.7	798.7	840.7	801.1	—	685.5	690.5	728.4	688.4	—
561	Men's and boys' clothing and furnishings .....	139.8	139.0	149.4	141.7	—	120.8	119.9	129.2	121.3	—
562	Women's ready-to-wear stores .....	287.7	292.9	299.6	287.6	—	251.3	255.2	260.7	249.9	—
565	Family clothing stores .....	124.9	124.7	131.4	124.4	—	111.4	111.5	117.0	108.2	—
566	Shoe stores .....	165.4	167.5	182.9	172.8	—	137.3	139.0	152.8	143.2	—
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	537.5	541.1	564.1	558.4	—	451.5	455.0	474.3	468.4	—
571	Furniture and home furnishings .....	321.5	323.1	334.2	332.9	—	272.9	274.1	282.4	281.0	—
58	<b>EATING AND DRINKING PLACES</b> .....	3,609.3	3,692.0	3,816.4	3,835.1	—	3,370.9	3,446.0	3,534.8	3,541.0	—
52,55,59	<b>OTHER RETAIL TRADE</b> .....	3,918.9	3,933.4	4,036.1	4,021.3	—	3,363.3	3,373.4	3,454.6	3,438.7	—
52	Building materials and farm equipment .....	613.9	625.2	653.1	646.1	—	521.1	531.3	554.0	546.3	—
55	Automotive dealers and service stations .....	1,743.7	1,753.5	1,775.3	1,771.4	—	—	—	—	—	—
551,2	Motor vehicle dealers .....	798.0	802.1	819.5	820.2	—	664.6	668.2	681.2	681.2	—
553,9	Other automotive and accessory dealers .....	322.4	327.1	339.5	334.7	—	271.1	275.9	286.3	280.3	—
554	Gasoline service stations .....	623.3	624.3	616.3	616.5	—	—	—	—	—	—
59	Miscellaneous retail stores .....	1,561.3	1,554.7	1,607.7	1,603.8	—	—	—	—	—	—
591	Drug stores and proprietary stores .....	476.9	476.0	502.1	491.9	—	423.6	422.5	444.9	435.4	—
594	Book and stationery stores .....	83.5	82.4	79.7	82.0	—	70.8	69.8	67.2	69.5	—
596	Farm and garden supply stores .....	138.3	145.6	140.0	140.7	—	—	—	—	—	—
598	Fuel and ice dealers .....	109.7	102.8	107.1	107.4	—	94.4	87.2	92.0	92.3	—
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>4</sup></b> .....	4,391	4,422	4,588	4,607	4,636	3,338	3,362	3,481	3,494	3,517
60	Banking .....	1,317.8	1,321.9	1,367.5	1,371.2	—	1,030.6	1,031.6	1,060.8	1,062.0	—
61	Credit agencies other than banks .....	482.2	486.0	518.4	523.4	—	370.8	374.4	399.6	402.9	—
612	Savings and loan associations .....	197.3	199.7	217.5	218.9	—	157.4	159.3	172.5	173.4	—
614	Personal credit institutions .....	199.8	200.8	208.3	211.4	—	—	—	—	—	—
62	Security, commodity brokers and services .....	178.7	180.7	179.4	179.6	—	145.4	147.4	146.6	146.8	—
63	Insurance carriers .....	1,130.6	1,133.6	1,165.7	1,170.3	—	766.9	768.6	787.7	792.0	—
631	Life insurance .....	516.8	517.0	519.2	519.3	—	295.4	294.5	293.5	294.4	—
632	Accident and health insurance .....	123.3	123.7	124.4	124.9	—	101.5	101.5	100.9	101.1	—
633	Fire, marine, and casualty insurance .....	426.2	427.8	451.9	455.5	—	317.0	318.8	336.1	338.8	—
64	Insurance agents, brokers, and service .....	352.9	357.4	377.5	381.3	—	—	—	—	—	—
65	Real estate .....	815.7	828.0	861.3	862.6	—	—	—	—	—	—
655	Subdividers and developers .....	106.8	109.8	109.1	108.8	—	—	—	—	—	—
656	Operative builders .....	58.6	61.3	64.3	63.9	—	—	—	—	—	—
66,67	Other finance, insurance, and real estate .....	113.4	114.6	118.0	118.5	—	—	—	—	—	—
—	<b>SERVICES</b> .....	14,887	15,028	15,411	15,603	15,752	13,381	13,500	13,727	13,890	14,039
70	Hotels and other lodging places .....	1,024.0	1,031.6	978.9	1,000.9	—	—	—	—	—	—
701	Hotels, tourist courts, and motels .....	811.5	828.9	810.4	832.3	—	748.3	766.1	742.8	764.3	—
72	Personal services .....	797.3	801.6	792.5	792.0	—	—	—	—	—	—
721	Laundries and dry cleaning plants .....	344.8	345.6	343.9	341.0	—	308.4	308.6	307.7	305.1	—
722	Photographic studios .....	39.3	39.1	38.9	39.2	—	35.0	35.0	35.1	35.3	—
73	Miscellaneous business services .....	2,173.6	2,193.7	2,306.8	2,318.4	—	—	—	—	—	—
731	Advertising .....	130.5	131.5	137.9	139.2	—	—	—	—	—	—
732	Credit reporting and collection .....	84.8	85.4	88.9	89.8	—	—	—	—	—	—
734	Services to buildings .....	417.3	421.9	436.8	438.1	—	—	—	—	—	—
76	Miscellaneous repair services .....	224.7	226.8	233.8	233.8	—	—	—	—	—	—
78	Motion pictures .....	191.4	197.7	190.9	189.2	—	—	—	—	—	—
781	Motion picture filming and distributing .....	62.2	65.3	66.8	65.8	—	50.0	51.6	55.0	54.9	—
782,3	Motion picture theaters and services .....	129.2	132.4	124.1	123.4	—	—	—	—	—	—
80	Medical and other health services .....	4,594.1	4,624.3	4,883.6	4,908.0	—	—	—	—	—	—
806	Hospitals .....	2,452.0	2,460.7	2,554.5	2,564.2	—	2,237.0	2,246.3	2,278.2	2,269.4	—
81	Legal services .....	385.5	389.6	421.1	424.3	—	—	—	—	—	—
82	Educational services .....	1,353.4	1,371.6	1,359.3	1,417.0	—	—	—	—	—	—
821	Elementary and secondary schools .....	434.8	443.5	461.8	464.6	—	—	—	—	—	—
822	Colleges and universities .....	732.1	738.5	696.2	743.4	—	—	—	—	—	—
89	Miscellaneous services .....	951.0	954.6	1,017.4	1,033.0	—	—	—	—	—	—
891	Engineering and architectural services .....	427.7	432.0	456.5	459.3	—	—	—	—	—	—
892	Nonprofit research agencies .....	159.9	160.8	169.9	171.3	—	—	—	—	—	—

See footnotes at end of table

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>
—	<b>GOVERNMENT</b> .....	15,246	15,315	15,469	15,704	15,820	—	—	—	—	—
91	<b>FEDERAL GOVERNMENT<sup>5</sup></b> .....	2,705	2,714	2,711	2,720	2,724	—	—	—	—	—
	Executive .....	2,654.9	2,662.8	2,659.5	2,668.2	—	—	—	—	—	
	Department of Defense .....	917.6	918.4	906.4	906.0	—	—	—	—	—	
	Postal Service .....	649.9	652.3	645.6	646.9	—	—	—	—	—	
	Other agencies .....	1,087.4	1,092.1	1,107.5	1,115.3	—	—	—	—	—	
	Legislative .....	37.9	39.0	39.0	38.8	—	—	—	—	—	
	Judicial .....	12.1	12.1	12.6	12.7	—	—	—	—	—	
92,93	<b>STATE AND LOCAL GOVERNMENT</b> .....	12,541	12,601	12,758	12,984	13,096	—	—	—	—	
92	State government .....	3,375.5	3,382.7	3,332.2	3,419.1	—	—	—	—	—	
	State education .....	1,469.7	1,474.6	1,361.4	1,449.2	—	—	—	—	—	
	Other State government .....	1,905.8	1,908.1	1,970.8	1,969.9	—	—	—	—	—	
93	Local government .....	9,165.0	9,218.4	9,425.3	9,564.8	—	—	—	—	—	
	Local education .....	5,262.3	5,322.4	5,360.3	5,463.0	—	—	—	—	—	
	Other local government .....	3,902.7	3,896.0	4,065.0	4,101.8	—	—	—	—	—	

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

<sup>2</sup> Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 or more.

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

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

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

\* Not available.  
p=preliminary.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

[1967 = 100]

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Contract construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1919.....	41.1	55.1	184.8	31.8	54.8	33.5	87.1	33.2	-	-	34.4	22.4	23.5	-	-
1920.....	41.5	54.8	202.1	26.4	54.8	34.3	93.8	32.8	-	-	36.4	23.4	22.8	-	-
1925.....	43.7	53.6	177.7	45.1	51.1	38.3	89.8	41.0	-	-	38.2	28.4	24.6	-	-
1926.....	45.3	55.4	193.3	48.5	52.2	39.7	92.5	42.5	-	-	40.5	30.2	25.0	-	-
1927.....	45.5	54.7	181.7	50.1	51.4	40.5	91.4	43.4	-	-	42.4	31.4	25.6	-	-
1928.....	45.6	54.2	171.3	50.1	51.1	40.8	89.8	43.2	-	-	44.5	32.3	26.3	-	-
1929.....	47.6	57.1	177.3	46.7	55.0	42.4	91.9	45.0	-	-	46.8	34.1	26.9	19.6	29.2
1930.....	44.7	51.3	164.6	42.8	49.2	41.0	86.5	42.6	-	-	45.7	33.4	27.6	19.3	30.2
1931.....	40.5	44.1	142.4	37.8	42.0	38.5	76.4	38.8	-	-	43.6	31.5	28.6	20.6	31.2
1932.....	35.9	37.1	119.2	30.2	35.6	35.2	66.1	34.4	-	-	41.6	29.0	28.3	20.6	30.7
1933.....	36.0	38.5	121.4	25.2	38.0	34.7	62.7	34.9	-	-	40.2	28.4	27.8	20.8	30.0
1934.....	39.4	44.0	144.0	26.9	43.7	36.9	64.5	38.8	-	-	40.9	30.3	28.9	24.0	30.5
1935.....	41.1	46.8	146.3	28.4	46.6	38.0	65.4	39.9	-	-	41.4	31.1	30.5	27.7	31.4
1936.....	44.2	51.2	154.3	35.7	50.5	40.3	69.8	42.7	-	-	43.0	32.9	32.2	30.4	32.7
1937.....	47.1	55.5	165.6	34.7	55.5	42.5	73.6	46.0	-	-	44.4	34.8	33.0	30.6	33.7
1938.....	44.4	48.9	145.4	32.9	48.5	41.8	67.2	45.4	-	-	44.2	34.4	34.1	30.5	35.2
1939.....	46.5	52.8	139.3	35.8	52.9	43.1	68.9	47.2	47.8	47.0	45.3	34.8	35.1	33.3	35.6
1940.....	49.2	56.7	150.9	40.3	56.5	45.0	71.3	49.6	49.8	49.6	46.6	36.4	36.9	36.6	36.9
1941.....	55.5	68.5	156.1	55.8	67.8	48.4	76.8	53.0	53.1	53.0	48.0	38.8	40.9	49.3	38.3
1942.....	60.9	79.3	161.8	67.6	78.6	50.9	81.2	52.3	51.7	52.5	47.7	40.4	48.1	81.4	37.7
1943.....	64.5	86.4	150.9	48.8	90.5	52.5	85.6	51.3	49.4	52.0	46.6	41.1	53.3	106.8	36.6
1944.....	63.6	83.0	145.5	34.1	89.1	53.0	89.9	51.9	50.0	52.5	45.8	41.2	53.0	107.7	35.9
1945.....	61.3	75.2	136.4	35.3	79.8	53.8	91.7	53.8	52.8	54.1	46.4	42.0	52.1	103.3	36.1
1946.....	63.3	74.0	140.6	51.8	75.6	57.4	95.3	61.6	62.1	61.4	52.6	46.7	49.1	82.9	38.5
1947.....	66.6	79.4	155.8	61.8	79.9	59.6	97.8	65.8	67.0	65.4	54.4	50.0	48.0	69.6	41.3
1948.....	68.2	80.6	162.2	67.6	80.1	61.4	98.3	68.1	70.6	67.3	56.7	51.5	49.6	68.5	43.6
1949.....	66.5	75.4	151.7	67.5	74.3	61.6	93.9	68.1	70.6	67.2	57.6	52.1	51.4	70.2	45.5
1950.....	68.7	79.4	147.0	72.7	78.4	62.8	94.7	69.0	71.4	68.1	59.5	53.3	52.9	70.9	47.2
1951.....	72.7	85.6	151.5	81.1	84.3	65.6	99.2	71.6	73.9	70.8	61.7	55.2	56.1	84.7	47.1
1952.....	74.1	86.7	146.5	82.1	85.5	67.3	99.7	73.5	76.2	72.6	64.2	56.7	58.0	89.0	48.3
1953.....	76.3	90.4	141.3	81.8	90.2	68.6	100.7	75.3	77.4	74.6	66.5	58.1	58.3	84.8	50.0
1954.....	74.4	84.7	129.0	81.4	83.9	68.8	95.8	75.2	77.7	74.4	69.3	59.4	59.2	80.5	52.6
1955.....	76.9	88.0	129.2	87.3	86.8	70.9	97.2	77.4	79.3	76.8	72.4	62.1	60.7	80.4	54.5
1956.....	79.6	90.5	134.1	93.5	88.7	73.6	99.6	79.8	81.8	79.1	75.3	64.7	63.8	81.2	58.4
1957.....	80.3	89.9	135.1	91.1	88.3	75.1	99.5	80.0	82.1	79.3	76.8	66.8	66.8	81.5	62.2
1958.....	78.0	83.7	122.5	86.6	82.0	74.9	93.3	79.0	80.8	78.4	78.1	67.4	68.8	80.6	65.1
1959.....	81.0	87.5	119.4	92.3	85.7	77.4	94.1	81.8	83.6	81.2	80.4	70.6	70.9	82.1	67.4
1960.....	82.4	87.6	116.2	89.9	86.4	79.5	94.0	83.7	85.2	83.2	82.8	73.5	73.3	83.5	70.1
1961.....	82.1	85.2	109.6	87.8	84.0	80.4	91.6	83.3	84.9	82.8	84.7	75.9	75.4	83.8	72.8
1962.....	84.4	87.7	106.0	90.5	86.7	82.6	91.7	85.0	86.7	84.4	86.8	79.5	78.0	86.1	75.5
1963.....	86.1	88.5	103.6	92.4	87.4	84.8	91.6	86.6	88.1	86.1	89.2	82.4	80.9	86.7	79.1
1964.....	88.6	90.1	103.4	95.1	88.8	87.8	92.7	89.4	90.5	89.0	91.7	86.2	84.2	86.4	83.5
1965.....	92.3	94.0	103.1	99.3	92.9	91.4	94.7	93.5	94.0	93.3	93.7	90.0	88.4	87.5	88.7
1966.....	97.1	99.3	102.3	102.1	98.8	95.9	97.4	97.3	97.5	97.3	96.1	94.6	94.7	94.3	94.8
1967.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1968.....	103.2	101.8	98.9	103.1	101.7	103.9	101.2	103.6	102.4	104.0	104.8	105.2	103.9	100.7	105.0
1969.....	107.0	104.5	101.0	109.9	103.7	108.3	104.1	108.1	105.9	108.8	110.4	111.2	107.1	101.4	108.8
1970.....	107.7	101.0	101.6	110.2	99.5	111.3	105.7	110.5	108.3	111.3	114.3	115.1	110.2	100.4	113.3
1971.....	108.1	98.1	99.3	113.4	95.5	113.6	104.6	112.8	108.5	114.4	117.9	117.9	113.1	99.2	117.4
1972.....	111.9	101.2	102.0	119.4	98.2	117.8	106.0	117.4	111.9	119.4	122.3	122.7	117.0	98.7	122.8
1973.....	116.8	106.3	105.1	125.2	103.2	122.5	109.0	122.5	116.5	124.7	126.9	128.9	120.5	97.9	127.6
1974.....	119.1	106.1	113.2	123.3	103.1	126.1	110.2	125.1	119.8	126.9	130.5	134.8	124.4	100.2	132.0
1975.....	117.0	97.1	121.5	109.5	94.3	127.8	105.6	124.9	118.5	127.2	130.9	138.7	129.1	101.1	138.0
1976.....	120.6	100.3	127.7	112.0	97.5	131.7	105.8	130.0	120.9	133.2	133.8	145.0	131.1	100.5	140.7
1977.....	124.7	104.1	135.6	119.8	100.6	136.0	107.7	134.4	124.5	137.9	139.8	151.8	133.3	100.3	143.6
Mar.....	123.5	103.2	137.2	117.2	99.8	134.6	107.1	133.2	123.5	136.5	138.1	150.0	131.9	100.2	141.8
Apr.....	123.9	103.9	138.2	119.4	100.3	134.9	107.4	133.6	124.0	136.9	138.4	150.3	132.0	100.1	142.0
May.....	124.3	104.3	137.8	120.1	100.6	135.2	107.6	133.8	124.2	137.1	138.9	150.5	132.5	100.2	142.7
June.....	124.8	104.7	139.6	121.2	100.8	135.7	107.7	134.2	124.5	137.7	139.3	151.1	133.3	100.6	143.6
July.....	125.1	104.9	135.9	122.0	101.1	136.2	107.3	134.7	124.7	138.2	139.7	152.2	133.6	100.1	144.0
Aug.....	125.2	104.5	133.4	121.4	100.8	136.6	107.5	135.1	124.8	138.7	140.3	153.0	133.7	100.5	144.1
Sept.....	125.7	104.7	139.6	121.3	100.8	137.1	108.3	135.5	125.1	139.1	140.9	153.3	134.5	100.3	145.2
Oct.....	125.9	105.0	140.1	121.9	101.1	137.3	108.2	135.3	125.2	138.9	141.8	153.8	134.6	100.4	145.3
Nov.....	126.4	105.4	140.8	123.1	101.4	137.9	108.8	136.1	125.9	139.6	142.5	154.5	134.8	100.3	145.6
Dec.....	126.7	105.4	116.0	123.0	102.2	138.3	109.2	136.8	126.5	140.4	143.0	155.1	134.8	100.0	145.7
1978:															
Jan.....	127.1	105.7	115.0	122.1	102.7	138.8	108.6	137.8	127.1	141.5	143.6	155.4	135.4	100.6	146.3
Feb.....	127.6	106.3	116.0	123.0	103.2	139.3	109.3	137.9	127.9	141.4	144.2	156.4	135.7	100.6	146.7
Mar.....	128.3	107.0	118.6	125.4	103.6	139.9	109.9	138.5	128.7	142.0	144.8	157.2	136.2	100.6	147.4

p = preliminary.

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

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

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

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

(In thousands)

Industry division and group	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. <sup>P</sup>	Mar. <sup>P</sup>
<b>TOTAL</b> .....	81,331	81,620	81,837	82,157	82,407	82,474	82,763	82,902	83,245	83,429	83,719	84,055	84,498
<b>GOODS-PRODUCING</b> .....	24,017	24,176	24,264	24,355	24,412	24,305	24,360	24,436	24,528	24,526	24,593	24,729	24,896
<b>MINING</b> .....	841	847	845	856	833	818	856	859	863	711	705	711	727
<b>CONTRACT CONSTRUCTION</b> .....	3,759	3,850	3,853	3,888	3,913	3,893	3,892	3,911	3,950	3,947	3,916	3,947	4,023
<b>MANUFACTURING</b> .....	19,417	19,499	19,566	19,611	19,666	19,594	19,612	19,666	19,715	19,868	19,972	20,071	20,146
<b>DURABLE GOODS</b> .....	11,373	11,404	11,451	11,484	11,548	11,527	11,545	11,604	11,625	11,748	11,828	11,910	11,962
Ordnance and accessories .....	156	156	156	157	156	156	155	150	152	155	156	157	158
Lumber and wood products .....	633	635	638	638	640	642	648	653	662	666	667	665	670
Furniture and fixtures .....	503	506	508	510	515	508	510	517	521	530	532	537	540
Stone, clay, and glass products .....	643	650	653	659	659	656	658	657	667	671	675	677	680
Primary metal industries .....	1,200	1,208	1,215	1,218	1,204	1,202	1,211	1,208	1,206	1,204	1,212	1,217	1,214
Fabricated metal products .....	1,432	1,433	1,444	1,452	1,459	1,460	1,456	1,473	1,479	1,492	1,499	1,514	1,512
Machinery, except electrical .....	2,142	2,150	2,165	2,170	2,202	2,210	2,217	2,243	2,237	2,257	2,265	2,282	2,293
Electrical equipment and supplies .....	1,906	1,915	1,925	1,931	1,959	1,951	1,944	1,961	1,974	1,987	1,998	2,017	2,038
Transportation equipment .....	1,808	1,802	1,797	1,802	1,813	1,802	1,809	1,801	1,782	1,830	1,862	1,877	1,885
Instruments and related products .....	526	525	528	527	527	526	528	530	532	536	539	541	544
Miscellaneous manufacturing .....	424	424	422	420	414	414	409	411	413	420	423	426	428
<b>NONDURABLE GOODS</b> .....	8,044	8,095	8,115	8,127	8,118	8,067	8,067	8,062	8,090	8,120	8,144	8,161	8,184
Food and kindred products .....	1,732	1,741	1,733	1,736	1,728	1,710	1,711	1,696	1,703	1,714	1,728	1,727	1,733
Tobacco manufactures .....	69	74	72	72	72	68	67	66	66	69	69	69	70
Textile mill products .....	974	979	986	986	992	982	985	987	993	990	991	992	994
Apparel and other textile products .....	1,284	1,290	1,292	1,301	1,292	1,286	1,285	1,285	1,291	1,291	1,289	1,282	1,289
Paper and allied products .....	689	695	701	703	705	704	702	702	700	705	707	710	713
Printing and publishing .....	1,099	1,103	1,108	1,113	1,114	1,114	1,116	1,117	1,120	1,123	1,125	1,129	1,131
Chemicals and allied products .....	1,052	1,057	1,062	1,061	1,064	1,061	1,058	1,058	1,059	1,064	1,066	1,071	1,073
Petroleum and coal products .....	207	209	210	210	210	210	210	211	212	212	214	217	217
Rubber and plastics products, nec .....	672	681	684	680	683	671	671	673	681	689	693	701	702
Leather and leather products .....	266	266	267	265	258	261	262	266	265	263	262	263	262
<b>SERVICE-PRODUCING</b> .....	57,314	57,444	57,573	57,802	57,995	58,169	58,403	58,466	58,717	58,903	59,126	59,326	59,602
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,563	4,575	4,586	4,588	4,572	4,581	4,616	4,610	4,634	4,652	4,628	4,657	4,681
<b>WHOLESALE AND RETAIL TRADE</b> ..	18,118	18,175	18,202	18,264	18,322	18,377	18,431	18,414	18,512	18,610	18,744	18,762	18,849
<b>WHOLESALE TRADE</b> .....	4,354	4,371	4,379	4,387	4,394	4,398	4,410	4,415	4,438	4,460	4,482	4,508	4,538
<b>RETAIL TRADE</b> .....	13,764	13,804	13,823	13,877	13,928	13,979	14,021	13,999	14,074	14,150	14,262	14,254	14,311
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,453	4,463	4,481	4,494	4,506	4,524	4,545	4,572	4,597	4,611	4,630	4,649	4,669
<b>SERVICES</b> .....	15,149	15,182	15,197	15,260	15,372	15,448	15,482	15,533	15,608	15,663	15,693	15,793	15,879
Hotels and other lodging places .....	1,089	1,092	1,073	1,066	1,082	1,081	1,073	1,074	1,077	1,058	1,053	1,058	-
Personal services .....	809	809	805	806	802	803	801	799	800	799	801	802	-
Medical and other health services .....	4,634	4,662	4,681	4,723	4,747	4,778	4,801	4,827	4,850	4,877	4,898	4,923	-
Educational services .....	1,286	1,287	1,289	1,285	1,314	1,327	1,356	1,342	1,346	1,338	1,342	1,341	-
<b>GOVERNMENT</b> .....	15,031	15,049	15,107	15,196	15,223	15,239	15,329	15,337	15,366	15,367	15,431	15,465	15,524
<b>FEDERAL</b> .....	2,725	2,721	2,725	2,735	2,721	2,732	2,728	2,730	2,727	2,718	2,736	2,736	2,735
<b>STATE AND LOCAL</b> .....	12,306	12,328	12,382	12,461	12,502	12,507	12,601	12,607	12,639	12,649	12,695	12,729	12,789

p = preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED EMPLOYMENT**

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

[In thousands]

Industry division and group	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. <sup>P</sup>	Mar. <sup>P</sup>
<b>TOTAL</b> .....	54,462	54,693	54,823	54,968	55,122	55,117	55,267	55,337	55,644	55,790	55,928	56,138	56,467
<b>GOODS-PRODUCING</b> .....	17,594	17,739	17,806	17,877	17,888	17,784	17,829	17,890	17,985	17,970	18,002	18,112	18,255
<b>MINING</b> .....	636	639	637	645	624	609	643	645	649	518	512	516	531
<b>CONTRACT CONSTRUCTION</b> .....	2,983	3,056	3,067	3,100	3,119	3,097	3,095	3,113	3,152	3,146	3,087	3,109	3,185
<b>MANUFACTURING</b> .....	13,975	14,044	14,102	14,132	14,145	14,078	14,091	14,132	14,184	14,306	14,403	14,487	14,539
<b>DURABLE GOODS</b> .....	8,137	8,167	8,211	8,236	8,271	8,252	8,266	8,313	8,337	8,438	8,512	8,575	8,612
Ordnance and accessories .....	70	71	72	73	73	71	70	68	69	71	72	73	73
Lumber and wood products .....	538	540	543	544	544	548	553	556	567	570	570	567	571
Furniture and fixtures .....	413	417	419	420	423	416	418	424	429	436	439	443	447
Stone, clay, and glass products .....	511	518	521	527	527	523	524	522	531	535	538	537	541
Primary metal industries .....	939	944	952	954	943	937	948	946	944	943	951	957	953
Fabricated metal products .....	1,084	1,085	1,096	1,103	1,106	1,104	1,102	1,117	1,124	1,134	1,142	1,156	1,152
Machinery, except electrical .....	1,385	1,390	1,404	1,409	1,438	1,443	1,444	1,464	1,459	1,474	1,482	1,497	1,505
Electrical equipment and supplies .....	1,267	1,276	1,285	1,287	1,299	1,296	1,289	1,303	1,314	1,324	1,331	1,348	1,365
Transportation equipment .....	1,284	1,279	1,272	1,275	1,281	1,279	1,285	1,278	1,261	1,300	1,332	1,340	1,347
Instruments and related products .....	321	322	323	323	322	321	324	324	326	329	331	331	331
Miscellaneous manufacturing .....	325	325	324	321	315	314	309	311	313	322	324	326	327
<b>NONDURABLE GOODS</b> .....	5,838	5,877	5,891	5,896	5,874	5,826	5,825	5,819	5,847	5,868	5,891	5,912	5,927
Food and kindred products .....	1,181	1,187	1,181	1,181	1,170	1,156	1,157	1,141	1,149	1,157	1,172	1,175	1,178
Tobacco manufactures .....	56	60	58	59	57	54	54	54	53	55	55	55	56
Textile mill products .....	849	855	860	860	866	855	857	860	866	863	863	866	867
Apparel and other textile products .....	1,102	1,107	1,109	1,117	1,105	1,102	1,100	1,099	1,105	1,107	1,107	1,102	1,107
Paper and allied products .....	519	522	527	528	529	528	526	527	525	529	530	534	535
Printing and publishing .....	636	639	642	642	642	640	639	641	642	642	642	645	645
Chemicals and allied products .....	602	606	610	610	612	609	608	607	608	611	614	617	618
Petroleum and coal products .....	135	137	137	138	137	137	138	139	141	140	142	144	144
Rubber and plastics products, nec .....	530	536	538	534	536	522	522	524	532	540	542	550	553
Leather and leather products .....	228	228	229	227	220	223	224	227	226	224	224	224	224
<b>SERVICE-PRODUCING</b> .....	36,868	36,954	37,017	37,091	37,234	37,333	37,438	37,447	37,659	37,820	37,926	38,026	38,212
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	3,886	3,893	3,903	3,903	3,885	3,890	3,918	3,899	3,922	3,951	3,909	3,926	3,947
<b>WHOLESALE AND RETAIL TRADE</b> .....	15,994	16,035	16,064	16,114	16,165	16,208	16,234	16,202	16,293	16,383	16,511	16,501	16,578
<b>WHOLESALE TRADE</b> .....	3,602	3,614	3,622	3,623	3,627	3,629	3,639	3,637	3,659	3,673	3,692	3,711	3,736
<b>RETAIL TRADE</b> .....	12,392	12,421	12,442	12,491	12,538	12,579	12,595	12,565	12,634	12,710	12,819	12,790	12,842
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,393	3,402	3,410	3,420	3,437	3,439	3,459	3,476	3,496	3,505	3,527	3,540	3,549
<b>SERVICES</b> .....	13,595	13,624	13,640	13,654	13,747	13,796	13,827	13,870	13,948	13,981	13,979	14,059	14,138

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

<sup>P</sup> preliminary.

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

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
<b>1975</b>				
January .....	15.1	12.8	12.8	16.6
February .....	15.7	12.8	11.9	17.4
March .....	25.6	18.6	17.7	17.7
April .....	39.0	32.3	28.2	20.6
May .....	51.2	43.9	41.6	27.0
June .....	40.7	52.3	56.7	40.7
July .....	58.1	57.0	67.2	50.6
August .....	73.0	76.2	70.1	63.1
September .....	80.8	81.7	75.3	72.4
October .....	66.9	74.1	82.3	77.3
November .....	62.2	72.4	83.4	80.2
December .....	74.1	74.7	81.7	82.6
<b>1976</b>				
January .....	78.5	82.0	83.1	86.0
February .....	77.9	84.3	81.7	84.6
March .....	74.1	85.2	79.9	81.1
April .....	79.4	77.9	79.4	74.4
May .....	66.6	71.5	70.9	79.7
June .....	54.1	61.0	68.6	79.1
July .....	57.3	52.9	57.0	74.1
August .....	47.1	62.5	57.3	74.7
September .....	69.8	56.7	63.7	78.5
October .....	42.4	62.8	69.8	76.5
November .....	69.5	58.7	73.5	75.0
December .....	73.0	79.9	78.5	74.7
<b>1977</b>				
January .....	75.0	79.7	89.0	75.9
February .....	73.5	86.0	86.6	75.6
March .....	82.3	85.8	83.1	78.2
April .....	77.6	84.0	80.5	78.2
May .....	68.6	73.3	71.5	79.1
June .....	63.7	70.1	68.0	77.6
July .....	65.7	56.1	68.3	78.8
August .....	50.0	62.5	68.3	79.4p
September .....	61.3	57.0	72.1	76.5p
October .....	59.9	73.3	75.0	
November .....	75.9	76.2	80.8p	
December .....	73.8	77.9	82.8p	
<b>1978</b>				
January .....	66.9	80.8p		
February .....	70.3p	77.0p		
March .....	73.8p			
April .....				
May .....				
June .....				
July .....				
August .....				
September .....				
October .....				
November .....				
December .....				

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

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P
1 ALABAMA	1,211.6	1,258.8	1,263.2	14.3	6.5	6.5	68.1	68.8	70.4	333.9	353.5	354.1
2 Birmingham	320.0	324.2	326.1	9.0	2.1	2.0	20.3	19.3	20.6	61.0	64.1	64.6
3 Huntsville	105.4	109.8	109.7	(1)	(1)	(1)	3.4	3.5	3.5	29.4	32.9	32.9
4 Mobile	132.4	140.4	140.6	(1)	(1)	(1)	9.8	10.8	11.0	27.2	29.4	29.3
5 Montgomery	89.9	96.5	96.8	(1)	(1)	(1)	5.6	5.9	6.0	13.8	15.2	15.3
6 Tuscaloosa	48.2	47.3	47.8	.8	.3	.3	2.8	3.2	3.3	10.4	9.0	9.1
7 ALASKA	155.1	150.0	151.0	4.3	4.5	4.9	18.9	15.7	15.0	8.0	7.6	8.0
8 ARIZONA	785.3	814.7	823.4	24.3	19.6	19.5	43.8	54.3	55.3	109.0	114.9	114.6
9 Phoenix	474.9	497.6	505.6	.6	.6	.6	26.3	33.3	33.9	80.5	85.9	85.8
10 Tucson	151.7	152.5	154.3	8.1	5.8	5.7	8.7	10.4	10.7	12.8	13.0	13.0
11 ARKANSAS	666.8	696.3	705.6	4.4	4.6	4.6	32.4	32.6	34.6	200.2	212.1	213.2
12 Fayetteville-Springdale	54.5	56.0	56.0	(1)	(1)	(1)	2.5	2.8	2.8	17.0	17.6	17.5
13 Fort Smith	61.5	62.8	62.9	.6	.6	.6	2.6	2.8	2.7	23.1	23.2	23.5
14 Little Rock-North Little Rock	159.7	165.6	166.3	(1)	(1)	(1)	8.3	7.9	8.3	29.2	31.2	31.3
15 Pine Bluff	27.8	28.7	28.9	(1)	(1)	(1)	.9	.9	.8	6.1	6.3	6.3
16 CALIFORNIA	8,268.6	8,609.5	8,641.1	34.1	35.4	35.3	329.0	327.0	332.7	1,651.3	1,727.7	1,729.0
17 Anaheim-Santa Ana-Garden Grove	638.1	689.0	693.5	1.9	2.3	2.3	36.7	37.1	36.8	164.7	178.9	180.5
18 Bakersfield	109.3	113.8	113.6	8.9	9.3	9.3	4.7	4.7	5.2	8.8	9.2	8.9
19 Fresno	155.2	162.0	164.4	.7	.8	.8	7.8	8.4	8.6	19.4	20.4	20.6
20 Los Angeles-Long Beach	3,143.3	3,253.1	3,261.5	11.0	11.3	11.2	93.6	87.8	91.8	793.7	823.6	822.3
21 Modesto	73.4	77.6	77.8	.1	.1	.1	4.6	4.8	4.8	15.1	16.0	15.9
22 Oxnard-Simi Valley-Ventura	123.4	125.8	126.9	2.2	2.3	2.3	5.4	5.0	4.9	19.4	19.8	19.7
23 Riverside-San Bernardino-Ontario	362.2	378.4	381.5	2.2	2.5	2.5	16.6	17.5	17.6	55.8	58.1	58.5
24 Sacramento	335.8	354.4	355.2	.3	.4	.4	14.5	16.2	16.1	22.0	23.4	23.3
25 Salinas-Seaside-Monterey	76.6	79.8	79.6	.6	.6	.6	3.0	3.1	3.1	8.1	8.6	8.6
26 San Diego	515.9	547.2	547.8	.8	.8	.8	29.1	29.5	26.4	73.4	81.3	81.8
27 San Francisco-Oakland	1,365.0	1,404.6	1,406.3	1.9	1.9	1.8	56.7	56.5	56.9	185.6	190.4	189.9
28 San Jose	512.3	542.9	546.5	.1	.1	.1	19.3	20.3	20.5	166.0	175.1	177.0
29 Santa Barbara-Santa Maria-Lompoc	103.1	104.9	104.9	1.0	1.0	1.0	3.8	4.0	4.1	13.2	13.2	13.1
30 Santa Rosa	71.8	75.0	75.3	.3	.3	.3	3.6	3.8	3.8	10.2	10.9	10.8
31 Stockton	101.9	105.3	105.9	.1	.1	.1	4.0	4.2	4.1	17.4	17.8	18.0
32 Vallejo-Fairfield-Napa	87.3	89.5	90.3	.2	.2	.2	3.3	3.2	3.4	8.8	8.6	8.8
33 COLORADO	979.7	999.3	1,003.5	20.5	21.6	21.7	50.0	57.1	56.0	139.4	144.9	143.8
34 Denver-Boulder	621.4	636.5	639.7	8.1	10.2	10.2	34.0	40.0	39.1	94.8	98.3	98.3
35 CONNECTICUT	1,240.8	1,282.1	(*)	(3)	(3)	(*)	32.2	35.0	(*)	400.7	405.3	(*)
36 Bridgeport	149.2	153.1	153.1	(3)	(3)	(3)	3.1	3.5	3.3	60.0	61.3	61.6
37 Hartford	339.0	353.0	351.7	(3)	(3)	(3)	7.7	8.5	8.1	82.3	85.0	84.6
38 New Britain	54.1	56.6	56.2	(3)	(3)	(3)	1.2	1.5	1.3	26.3	28.4	28.1
39 New Haven-West Haven	171.3	171.4	171.0	(3)	(3)	(3)	4.5	4.7	4.5	43.1	44.2	43.9
40 Stamford	93.5	98.3	98.0	(3)	(3)	(3)	3.3	4.0	3.8	29.0	29.0	29.3
41 Waterbury	81.2	83.0	82.8	(3)	(3)	(3)	1.9	2.2	1.9	33.5	32.0	32.1
42 DELAWARE	223.1	239.0	(*)	(1)	(1)	(*)	10.9	14.1	(*)	60.9	69.2	(*)
43 Wilmington	198.4	211.2	(*)	(1)	(1)	(*)	10.1	13.5	(*)	57.8	65.8	(*)
44 DISTRICT OF COLUMBIA	565.9	570.7	572.7	(1)	(1)	(1)	13.1	13.6	13.4	14.8	14.9	15.0
45 Washington SMSA	1,349.3	1,378.9	1,383.6	(1)	(1)	(1)	60.3	64.1	63.2	48.1	49.7	49.8
46 FLORIDA	2,863.3	2,970.3	2,987.3	8.9	8.8	8.8	163.0	180.4	184.3	369.3	389.8	392.8
47 Fort Lauderdale-Hollywood	260.7	268.2	271.7	(1)	(1)	(1)	17.2	19.8	19.7	28.5	31.9	32.6
48 Jacksonville	258.0	266.2	267.0	(1)	(1)	(1)	13.8	14.3	14.4	30.4	32.9	33.3
49 Miami	607.6	624.1	623.7	(1)	(1)	(1)	24.3	27.2	26.8	85.2	89.2	89.5
50 Orlando	219.4	227.9	228.9	(1)	(1)	(1)	11.6	12.6	12.7	26.6	28.9	29.0
51 Pensacola	87.1	89.6	89.6	(1)	(1)	(1)	6.0	6.0	6.2	13.4	13.0	12.9
52 Tampa-St. Petersburg	436.8	452.3	455.6	(1)	(1)	(1)	25.8	28.1	29.0	60.2	62.6	63.0
53 West Palm Beach-Boca Raton	154.6	162.0	163.0	(1)	(1)	(1)	10.4	11.7	11.6	20.3	21.8	21.9
54 GEORGIA	1,842.1	1,914.8	1,916.4	7.0	7.1	7.1	78.3	89.5	92.1	476.6	495.2	496.3
55 Atlanta	777.5	796.7	793.6	(1)	(1)	(1)	30.4	33.4	33.8	126.2	132.3	132.0
56 Augusta	107.3	115.2	115.3	(1)	(1)	(1)	5.9	6.8	7.0	34.1	35.7	35.9
57 Columbus	75.6	79.7	79.5	(1)	(1)	(1)	4.1	4.6	4.6	19.7	20.5	20.5
58 Macon	92.2	94.2	94.1	(1)	(1)	(1)	4.3	4.2	4.2	15.3	15.8	15.6
59 Savannah	77.1	79.6	79.7	(1)	(1)	(1)	4.8	5.3	5.3	16.0	16.7	16.7
60 HAWAII	354.6	353.9	358.7	(1)	(1)	(1)	20.1	18.7	19.1	23.0	22.9	23.2
61 Honolulu	295.2	293.7	298.0	(1)	(1)	(1)	16.6	15.8	16.2	16.7	16.9	16.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	
62.3	66.7	67.0	249.0	260.6	259.3	54.3	56.7	56.8	171.4	179.8	180.0	258.3	266.2	269.1	1
23.9	25.1	25.4	78.6	82.0	81.6	21.5	23.0	23.0	56.6	58.5	58.6	49.0	50.1	50.3	2
2.5	2.5	2.5	20.0	20.8	20.7	2.8	3.1	3.1	15.4	16.1	16.1	31.9	30.9	30.9	3
10.0	10.8	10.9	32.9	34.5	34.4	6.2	6.5	6.5	24.6	25.6	25.5	21.7	22.8	23.0	4
4.1	4.6	4.6	21.2	24.1	24.1	5.3	5.6	5.6	16.5	17.2	17.2	23.4	23.9	24.0	5
1.8	1.7	1.7	9.1	9.6	9.5	1.6	1.6	1.6	5.2	5.4	5.4	16.5	16.5	16.9	6
14.7	13.8	13.7	26.0	26.9	26.6	7.2	7.7	7.6	27.4	22.8	23.1	48.6	51.0	52.1	7
40.4	40.9	42.3	190.6	199.9	200.7	43.9	45.9	46.4	148.8	156.3	154.2	184.5	182.9	190.4	8
24.3	24.6	25.9	124.8	131.4	131.8	33.7	35.1	35.5	93.5	96.1	97.0	91.2	90.6	95.1	9
7.7	7.7	7.7	34.1	35.2	35.3	6.5	6.9	7.0	30.3	31.4	31.7	43.5	42.1	43.2	10
37.1	38.3	38.3	142.1	149.9	150.7	28.0	29.4	29.5	94.6	96.2	98.8	128.0	133.2	135.9	11
2.9	2.8	2.8	12.5	13.9	13.8	1.8	1.9	1.9	6.9	6.8	7.0	10.9	10.2	10.2	12
2.8	3.0	3.0	12.7	13.2	13.2	2.1	2.2	2.2	10.1	10.4	10.4	7.5	7.4	7.3	13
10.9	11.3	11.2	37.1	39.0	38.8	11.5	12.0	12.1	28.8	29.7	29.7	33.9	34.5	34.9	14
3.5	3.5	3.5	5.5	5.9	5.8	1.2	1.2	1.2	4.4	4.5	4.6	6.2	6.4	6.7	15
458.9	475.7	472.7	1,891.1	2,002.3	1,991.2	486.6	509.3	510.6	1,685.0	1,764.0	1,778.9	1,732.6	1,768.1	1,790.7	16
19.5	20.9	21.2	152.4	167.6	166.9	36.4	41.1	41.4	124.9	136.2	138.6	101.6	104.9	105.8	17
6.6	7.0	6.9	27.4	29.1	28.4	4.0	4.1	4.1	17.8	18.6	18.6	31.1	31.8	32.2	18
8.5	8.9	8.8	39.5	42.6	42.3	8.5	8.9	9.0	29.4	30.5	30.7	41.4	41.5	43.6	19
172.4	182.0	178.7	718.3	751.7	748.1	192.5	198.6	199.2	675.5	701.1	705.4	486.3	497.0	504.8	20
3.3	3.3	3.3	17.9	19.7	19.5	2.3	2.6	2.6	14.0	14.5	14.6	16.1	16.6	17.0	21
4.9	5.2	5.2	28.0	28.5	29.2	4.8	5.1	5.1	21.1	22.1	22.1	37.6	37.8	38.4	22
19.4	20.6	20.5	87.0	91.5	91.3	14.2	14.8	15.0	74.3	77.8	79.0	92.7	95.6	97.1	23
17.4	18.4	18.2	74.8	79.9	79.3	16.1	17.3	17.4	58.0	61.4	62.1	132.7	137.4	138.4	24
4.5	4.6	4.6	18.7	20.1	19.8	3.5	3.7	3.7	15.6	15.9	15.9	22.6	23.2	23.3	25
23.1	24.6	24.7	118.1	127.8	127.4	28.6	30.9	31.1	107.7	113.7	115.0	135.1	138.6	140.6	26
116.9	119.1	119.1	309.6	325.2	322.4	119.6	123.3	123.3	283.4	295.2	296.2	291.3	293.0	296.7	27
17.9	18.6	18.5	98.1	106.2	105.7	20.9	21.6	21.7	110.8	117.2	118.3	79.2	83.8	84.7	28
3.6	3.8	3.8	24.6	25.4	25.4	4.4	4.5	4.5	26.2	26.7	26.8	26.3	26.3	26.2	29
3.5	3.8	3.8	16.9	17.8	17.6	4.1	4.0	4.0	14.0	14.5	14.5	19.2	19.9	20.5	30
6.7	7.0	7.3	23.0	24.1	24.0	4.4	4.5	4.5	19.2	20.0	20.1	27.1	27.6	27.8	31
3.8	3.6	3.6	16.0	17.7	17.7	2.8	3.0	3.0	15.2	16.1	16.2	37.2	37.1	37.4	32
60.8	64.2	64.6	233.5	239.4	238.3	59.7	61.3	61.2	195.4	194.4	195.7	220.5	216.4	222.2	33
40.5	43.3	43.5	154.7	158.7	159.1	44.4	45.6	45.5	126.4	124.0	125.0	118.4	116.4	118.9	34
53.7	55.8	(*)	254.8	271.4	(*)	88.6	91.8	(*)	232.0	245.3	(*)	178.8	177.5	(*)	35
5.4	5.5	5.4	30.0	31.9	31.8	6.3	6.4	6.4	27.2	27.7	27.7	17.1	16.8	16.8	36
13.3	14.4	14.5	70.7	74.0	72.8	51.1	53.3	53.6	62.8	66.0	66.0	51.1	51.8	52.2	37
1.2	1.3	1.3	9.0	9.3	9.4	1.5	1.5	1.5	8.2	8.3	8.3	6.8	6.4	6.5	38
14.2	14.2	14.0	35.2	36.1	35.7	9.6	9.7	9.7	41.0	39.6	40.2	23.7	22.9	23.1	39
3.2	3.4	3.4	21.1	22.9	22.5	6.3	6.7	6.6	20.8	22.1	22.0	9.8	10.3	10.4	40
2.9	2.9	3.0	14.5	15.5	15.3	2.7	3.0	3.0	14.7	16.1	16.1	10.9	11.2	11.5	41
12.0	12.3	(*)	49.9	53.2	(*)	10.7	11.1	(*)	37.4	39.0	(*)	41.3	40.1	(*)	42
11.0	11.3	(*)	41.2	43.4	(*)	9.9	9.9	(*)	33.3	34.6	(*)	35.1	32.7	(*)	43
24.9	25.4	25.4	62.4	64.6	64.5	33.9	32.3	32.2	148.2	150.0	151.0	268.6	269.9	271.2	44
61.7	62.7	62.7	256.2	269.2	266.8	78.6	79.7	79.7	322.5	331.9	334.1	521.9	521.6	527.3	45
182.8	185.8	187.3	754.3	779.1	776.7	195.2	202.6	203.7	632.6	653.7	660.0	557.2	570.1	573.7	46
13.7	13.7	13.9	77.8	79.2	79.7	21.0	21.7	21.9	63.5	61.3	62.8	39.0	40.6	41.1	47
21.5	21.7	21.6	67.4	69.1	68.8	26.9	27.7	28.1	47.2	48.2	48.4	50.8	52.3	52.4	48
59.2	59.5	59.3	159.1	161.2	160.9	44.0	45.3	45.5	148.0	149.7	150.4	87.8	92.0	91.3	49
11.2	11.4	11.4	60.2	62.9	62.8	15.0	15.4	15.5	56.8	58.3	58.8	38.0	38.4	38.7	50
4.3	4.7	4.7	19.8	20.4	20.0	3.7	3.6	3.7	15.3	16.6	16.7	24.6	25.3	25.4	51
26.3	25.5	25.7	125.1	128.6	128.3	31.0	33.0	33.1	96.8	98.4	99.1	71.6	76.1	77.4	52
7.0	7.0	6.9	40.8	42.5	42.4	11.7	12.6	12.6	38.5	40.1	40.7	25.9	26.3	26.9	53
116.2	120.6	121.7	421.3	442.9	435.1	98.5	100.2	100.6	273.0	276.8	277.5	371.3	382.6	386.1	54
69.2	71.7	71.8	219.7	225.0	220.4	56.8	56.9	57.1	144.0	144.5	144.9	131.1	132.9	133.6	55
3.7	3.7	3.7	18.3	21.6	20.7	4.0	4.2	4.2	13.6	14.5	14.9	27.6	28.8	28.9	56
3.1	3.1	3.2	16.0	17.3	17.1	4.6	4.9	4.8	10.4	10.8	10.6	17.8	18.5	18.7	57
4.4	4.4	4.4	18.4	18.8	18.4	5.4	5.7	5.7	14.5	15.2	15.4	30.0	30.1	30.3	58
7.3	7.5	7.5	17.5	18.2	18.0	3.7	3.8	3.8	12.9	12.9	13.0	14.9	15.3	15.4	59
27.9	28.2	28.1	90.0	91.6	91.1	24.2	24.9	24.8	83.8	85.8	86.5	85.6	81.8	85.9	60
23.0	23.3	23.2	75.8	76.5	76.4	21.4	22.1	22.0	68.3	69.9	70.3	73.4	69.2	73.0	61



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P
1 IDAHO .....	289.6	303.4	302.1	3.2	3.8	3.8	14.7	17.1	16.2	51.3	53.1	52.5
2 Boise City .....	66.6	70.9	71.5	(1)	(1)	(1)	4.6	5.5	5.6	6.9	7.3	7.5
3 ILLINOIS .....	4,504.1	4,574.6	4,579.3	26.4	13.1	12.1	144.1	148.1	147.4	1,228.0	1,237.5	1,237.4
4 Bloomington—Normal .....	48.0	49.5	49.9	(3)	(3)	(3)	1.0	.9	.9	7.4	7.9	7.8
5 Champaign—Urbana—Rantoul .....	65.7	65.2	66.2	(3)	(3)	(3)	2.2	2.5	2.4	6.3	6.4	6.5
6 Chicago—Gary .....	(5)	3,357.6	(*)	(5)	4.3	(*)	(5)	116.8	(*)	(5)	939.7	(*)
7 Chicago SMSA .....	3,068.9	3,095.8	3,095.4	4.1	4.2	4.2	92.7	105.0	104.4	830.8	845.1	845.2
8 Deavenport—Rock Island—Moline .....	155.9	152.1	154.6	(3)	(3)	(3)	5.9	6.1	6.0	49.2	44.6	47.4
9 Decatur .....	54.8	55.8	55.4	(3)	(3)	(3)	3.1	3.3	3.3	18.6	18.8	18.5
10 Peoria .....	144.2	147.5	147.3	(3)	(3)	(3)	7.5	7.5	7.3	50.6	51.9	51.9
11 Rockford .....	113.0	116.8	117.4	(3)	(3)	(3)	2.5	2.8	2.7	51.6	53.2	54.0
12 Springfield .....	80.6	84.0	82.8	(3)	(3)	(3)	3.6	3.8	3.7	8.8	9.7	9.5
13 INDIANA .....	2,010.9	2,085.0	2,083.9	7.5	4.7	4.6	70.2	76.9	74.2	683.7	714.2	712.4
14 Anderson .....	50.3	52.4	51.9	(1)	(1)	(1)	.9	.9	.9	25.2	26.5	26.0
15 Evansville .....	114.6	114.6	115.2	2.3	1.0	1.0	5.1	5.3	5.4	37.3	37.9	38.2
16 Fort Wayne .....	155.2	161.0	160.1	(1)	(1)	(1)	5.5	5.5	5.5	54.5	58.6	58.1
17 Gary—Hammond—East Chicago .....	235.4	242.4	243.7	(1)	(1)	(1)	12.4	11.8	12.7	95.6	99.4	99.2
18 Indianapolis .....	466.1	483.0	481.3	(1)	(1)	(1)	15.0	16.3	15.8	119.9	126.3	126.6
19 Lafayette—West Lafayette .....	53.4	54.1	54.4	(1)	(1)	(1)	2.1	1.4	1.4	10.6	12.1	11.5
20 Muncie .....	46.6	49.3	49.1	(1)	(1)	(1)	1.7	1.6	1.5	13.8	14.9	14.7
21 South Bend .....	103.0	104.7	105.4	(1)	(1)	(1)	3.6	3.9	3.8	32.3	32.8	33.1
22 Terre Haute .....	57.7	59.3	58.5	1.1	.2	.2	1.7	1.8	1.8	15.0	16.3	15.4
23 IOWA .....	1,008.9	1,034.0	(*)	2.3	2.3	(*)	38.2	39.2	(*)	236.0	239.8	(*)
24 Cedar Rapids .....	74.8	76.1	(*)	(1)	(1)	(*)	2.4	3.0	(*)	28.0	28.2	(*)
25 Des Moines .....	155.7	160.4	(*)	(1)	(1)	(*)	5.9	6.1	(*)	23.0	23.3	(*)
26 Dubuque .....	39.7	41.2	(*)	(1)	(1)	(*)	1.0	1.0	(*)	15.6	16.2	(*)
27 Sioux City .....	49.2	47.4	(*)	(1)	(1)	(*)	3.3	3.5	(*)	11.8	9.7	(*)
28 Waterloo—Cedar Falls .....	58.0	59.0	(*)	(1)	(1)	(*)	1.8	2.0	(*)	20.8	21.5	(*)
29 KANSAS .....	845.3	866.4	869.6	10.9	12.0	11.9	39.3	37.9	34.8	169.0	175.5	176.4
30 Topeka .....	79.5	82.2	82.4	.1	.2	.2	2.8	2.8	2.6	10.9	11.6	11.6
31 Wichita .....	176.6	160.4	179.5	1.6	2.0	2.0	8.4	8.2	7.0	51.3	54.7	55.4
32 KENTUCKY .....	1,101.7	1,139.2	1,145.4	45.8	23.9	23.5	43.5	52.7	53.9	276.5	285.2	289.9
33 Lexington—Fayette .....	129.6	129.5	134.0	(1)	(1)	(1)	5.4	5.3	6.4	29.3	31.3	31.7
34 Louisville .....	353.5	372.5	377.1	(1)	(1)	(1)	13.4	15.3	16.0	103.5	106.7	109.5
35 LOUISIANA .....	1,316.8	1,345.9	1,350.1	64.0	66.3	66.3	104.2	103.9	104.2	195.7	199.1	199.7
36 Alexandria .....	45.9	46.5	46.1	(1)	(1)	(1)	2.8	2.7	2.4	5.9	5.9	5.8
37 Baton Rouge .....	173.0	179.7	177.7	.9	.9	.9	22.4	21.5	21.5	23.7	24.2	24.1
38 Lafayette .....	54.5	56.9	56.5	8.7	9.6	9.2	4.2	4.9	4.7	2.8	3.3	3.3
39 Lake Charles .....	52.1	52.8	52.8	1.4	1.5	1.5	5.2	5.0	5.2	11.2	11.8	11.8
40 Monroe .....	45.5	46.4	46.3	.3	.3	.3	4.2	4.4	4.4	7.6	7.8	7.8
41 New Orleans .....	437.5	454.0	453.7	14.0	14.3	14.2	25.8	26.1	25.8	50.3	50.1	50.1
42 Shreveport .....	130.4	134.3	134.4	4.7	4.6	4.5	8.0	8.6	8.5	26.7	28.3	28.3
43 MAINE .....	366.7	381.8	383.1	(1)	(1)	(1)	16.1	17.4	16.4	102.9	107.5	107.9
44 Lewiston—Auburn .....	31.7	33.4	33.1	(1)	(1)	(1)	1.2	1.2	1.2	11.9	12.3	12.1
45 Portland .....	78.2	82.1	82.5	(1)	(1)	(1)	3.1	3.4	3.4	15.2	16.0	16.2
46 MARYLAND .....	1,476.3	1,517.0	1,516.0	1.4	.9	.7	73.1	79.3	76.4	228.1	234.6	233.3
47 Baltimore .....	840.1	862.4	861.1	(1)	(1)	(1)	34.1	37.7	35.8	157.0	161.4	160.2
48 MASSACHUSETTS .....	2,312.4	2,361.2	2,362.8	(1)	(1)	(1)	58.4	56.0	53.0	602.1	615.3	614.5
49 Boston .....	1,252.4	1,269.1	1,269.4	(1)	(1)	(1)	34.5	33.5	31.9	257.0	259.6	259.0
50 Brockton .....	50.1	51.7	51.6	-	-	-	1.2	1.2	1.1	11.9	11.9	12.0
51 Fall River .....	50.1	52.5	52.1	(1)	(1)	(1)	1.0	1.0	.9	20.3	21.0	20.9
52 Lawrence—Haverhill .....	92.8	98.8	99.6	(1)	(1)	(1)	1.8	2.0	2.0	35.9	38.4	38.4
53 Lowell .....	61.2	63.5	63.4	(1)	(1)	(1)	1.7	1.9	1.8	21.0	22.7	22.7
54 New Bedford .....	59.1	60.6	60.4	(1)	(1)	(1)	1.2	1.4	1.3	24.7	24.8	24.9
55 Springfield—Chicopee—Holyoke .....	212.0	214.4	217.4	(1)	(1)	(1)	4.2	4.5	4.2	61.7	65.4	65.4
56 Worcester .....	146.8	150.2	150.0	(1)	(1)	(1)	3.0	3.0	2.8	44.9	45.3	45.5
57 MICHIGAN .....	3,306.4	3,458.5	3,447.7	10.6	13.2	13.2	92.7	118.7	113.6	1,076.6	1,132.4	1,122.0
58 Ann Arbor .....	123.8	129.1	130.1	(1)	(1)	(1)	2.0	2.4	2.3	39.4	42.2	42.1
59 Battle Creek .....	63.0	64.8	64.8	(1)	(1)	(1)	.9	1.2	1.1	22.8	23.3	23.3
60 Bay City .....	33.3	35.6	35.9	(1)	(1)	(1)	1.0	1.4	1.4	10.2	11.1	11.2
61 Detroit .....	1,630.3	1,708.2	1,692.6	1.1	1.1	1.1	47.0	58.7	56.2	550.3	579.1	567.6
62 Flint .....	185.7	197.2	195.6	(1)	(1)	(1)	4.4	5.8	5.6	81.2	87.6	85.8
63 Grand Rapids .....	229.6	239.5	240.7	(1)	(1)	(1)	7.7	8.7	8.6	79.5	85.2	86.2

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	
17.1	18.1	18.1	73.4	76.6	75.6	15.9	16.5	16.1	49.5	52.8	52.9	64.5	65.4	66.9	1
4.1	4.5	4.4	17.7	19.2	19.1	5.4	5.9	6.0	11.3	12.2	12.5	16.6	16.4	16.6	2
268.6	272.4	271.8	1,029.5	1,051.5	1,042.3	262.4	269.9	268.5	820.1	845.8	848.9	724.9	736.3	750.8	3
2.9	3.0	3.0	10.8	11.6	11.5	6.9	7.1	7.2	7.6	7.6	7.8	11.6	11.4	11.8	4
2.4	2.5	2.5	14.5	14.5	14.4	2.1	2.2	2.2	9.1	9.6	9.5	29.1	27.5	28.8	5
(5)	204.5	(*)	(5)	781.5	(*)	(5)	212.5	(*)	(5)	638.3	(*)	(5)	460.0	(*)	6
186.3	189.4	189.0	726.7	714.6	709.4	201.0	203.2	203.5	604.3	602.9	603.7	422.9	431.4	436.0	7
7.4	7.5	7.4	37.6	38.4	38.2	6.4	6.5	6.5	23.6	23.8	23.9	25.8	25.1	25.3	8
4.5	4.5	4.4	11.7	11.8	11.7	2.3	2.4	2.4	9.3	9.6	9.6	5.3	5.5	5.5	9
7.6	7.9	7.9	33.1	34.4	34.0	6.7	7.0	6.9	24.7	26.1	26.2	13.9	12.7	13.1	10
4.3	4.6	4.6	22.8	24.1	23.9	3.5	3.8	3.8	16.1	16.3	16.3	12.1	12.0	12.2	11
5.1	4.9	4.7	15.8	17.7	17.1	6.5	6.8	6.7	16.1	16.5	16.4	24.8	24.6	24.7	12
102.3	104.5	104.2	431.5	456.8	452.6	90.8	92.5	92.6	287.4	288.5	290.4	337.5	346.8	352.9	13
1.4	1.4	1.4	9.3	9.8	9.8	1.5	1.6	1.6	6.2	6.4	6.4	5.8	5.8	5.8	14
6.3	6.1	6.2	26.5	27.7	27.4	3.8	3.9	3.9	20.9	20.9	21.0	12.4	11.8	12.1	15
10.0	9.9	10.0	36.9	37.8	37.2	8.9	9.1	9.2	24.0	24.7	24.7	15.4	15.4	15.4	16
14.0	14.2	14.1	44.6	47.6	47.4	8.1	8.6	8.6	31.0	31.3	32.1	29.7	29.5	29.6	17
28.9	29.3	29.0	113.7	118.7	116.5	33.0	33.5	33.5	72.2	74.1	74.5	83.4	84.8	85.4	18
1.5	1.5	1.5	10.0	10.5	10.3	2.5	2.7	2.7	7.4	7.8	7.8	19.3	18.1	19.2	19
2.0	2.0	2.0	10.2	11.4	11.3	1.4	1.5	1.5	5.7	6.9	7.0	10.8	11.0	11.1	20
4.9	5.1	5.1	24.0	25.0	24.8	4.8	4.8	4.8	21.6	21.2	22.0	11.8	11.9	11.8	21
4.0	3.8	3.8	13.9	14.8	14.7	1.9	2.0	2.0	8.3	8.7	8.7	11.8	11.7	11.9	22
53.5	53.9	(*)	248.0	257.9	(*)	47.7	48.7	(*)	182.2	187.2	(*)	200.8	205.0	(*)	23
3.6	3.5	(*)	15.2	15.3	(*)	3.5	3.7	(*)	12.8	13.2	(*)	9.2	9.1	(*)	24
10.4	10.4	(*)	40.3	41.8	(*)	17.6	18.3	(*)	31.0	32.6	(*)	27.1	27.9	(*)	25
1.6	1.6	(*)	8.1	8.6	(*)	1.1	1.1	(*)	8.6	9.1	(*)	3.5	3.5	(*)	26
3.5	3.4	(*)	11.9	11.5	(*)	2.4	2.5	(*)	9.6	10.2	(*)	6.5	6.7	(*)	27
2.2	2.1	(*)	12.2	12.5	(*)	1.6	1.7	(*)	8.8	9.1	(*)	10.6	10.1	(*)	28
57.0	58.1	58.1	202.1	210.3	207.7	41.8	42.8	42.7	145.4	151.9	152.4	179.8	177.9	185.6	29
7.2	7.8	7.6	17.2	17.8	17.8	5.6	5.6	5.6	14.6	15.1	15.2	21.1	21.3	21.8	30
9.8	10.0	10.0	39.9	40.5	40.0	8.9	9.0	8.9	34.1	33.6	33.5	22.6	22.4	22.3	31
61.0	64.0	65.0	230.3	255.6	253.1	44.1	49.0	49.1	178.6	184.4	186.2	221.9	224.4	224.7	32
6.0	6.3	6.3	28.1	29.9	30.2	5.9	6.2	6.3	22.5	22.7	23.2	32.4	27.8	29.9	33
22.6	23.7	23.8	77.7	81.4	81.0	19.7	21.1	21.1	64.9	68.5	69.1	51.7	55.7	56.7	34
99.9	102.7	103.5	309.7	324.4	323.1	63.7	65.8	66.1	222.9	226.0	228.2	256.7	257.7	259.0	35
2.4	2.3	2.3	10.6	10.6	10.5	2.7	2.6	2.6	8.6	8.8	8.8	12.9	13.6	13.7	36
8.3	8.4	8.4	36.3	36.9	36.8	9.7	10.3	10.5	25.8	26.6	26.7	45.9	50.9	48.8	37
4.1	3.9	4.1	14.6	15.4	15.4	1.7	1.9	1.9	9.4	9.1	9.1	9.0	8.8	8.8	38
2.9	2.7	2.7	12.0	12.5	12.4	2.1	2.2	2.2	8.4	8.4	8.3	8.9	8.7	8.7	39
2.2	2.2	2.2	11.8	11.9	11.8	3.0	3.1	3.1	6.8	6.9	7.0	9.6	9.8	9.7	40
43.9	46.9	46.9	115.0	119.9	119.0	26.8	27.4	27.4	92.4	96.3	97.2	69.3	73.0	73.1	41
9.3	9.1	9.2	32.9	34.6	34.4	6.0	6.1	6.1	21.9	21.9	22.1	20.9	21.1	21.3	42
17.5	17.7	17.6	76.0	81.2	80.0	14.7	15.0	14.8	61.4	64.3	64.9	78.1	78.7	81.5	43
1.1	1.1	1.0	7.1	7.8	7.7	1.3	1.4	1.4	6.1	6.4	6.5	3.0	3.2	3.2	44
4.8	5.1	5.0	20.3	22.1	21.7	6.5	6.7	6.6	15.6	15.9	16.2	12.7	12.9	13.4	45
76.8	78.6	78.2	350.6	365.6	359.6	80.1	81.7	81.7	286.0	297.3	298.7	380.2	379.0	387.4	46
52.2	53.4	53.2	193.1	200.0	197.0	49.1	50.1	50.1	159.1	165.3	166.2	195.5	194.5	198.6	47
110.9	112.3	112.3	518.0	536.8	531.6	134.7	136.0	135.9	516.2	530.8	536.3	372.1	374.0	379.2	48
66.6	67.0	66.9	287.2	295.8	293.0	93.3	95.3	95.2	322.5	324.6	328.4	191.3	193.3	195.0	49
3.7	3.9	3.9	13.9	14.2	13.9	1.7	1.9	1.8	8.2	8.5	8.5	9.5	10.1	10.4	50
1.9	1.9	1.8	10.4	11.2	11.1	2.3	2.3	2.3	8.4	8.6	8.6	5.8	6.5	6.5	51
3.5	3.6	3.6	19.0	20.2	20.0	3.5	3.7	3.7	13.5	14.7	15.0	15.6	16.2	16.9	52
3.1	3.2	3.1	13.3	13.4	13.5	1.9	1.9	1.9	9.7	10.0	10.0	10.5	10.4	10.4	53
2.6	2.5	2.5	11.3	11.8	11.5	1.7	1.8	1.8	9.6	10.1	10.2	8.0	8.2	8.2	54
8.8	8.8	8.9	43.7	44.9	44.4	10.7	11.0	11.0	38.1	39.9	39.9	44.8	39.9	43.6	55
6.7	6.5	6.4	31.5	32.7	32.2	8.0	8.1	8.1	28.3	28.8	29.0	24.4	25.8	26.0	56
143.3	147.1	148.5	674.2	704.1	689.3	136.8	140.8	141.5	552.0	578.2	583.3	620.1	624.0	636.4	57
2.0	2.2	2.2	16.7	18.2	17.9	3.4	3.6	3.6	17.4	18.3	18.2	42.9	42.2	43.8	58
2.1	2.1	2.1	10.5	10.8	10.8	3.5	3.5	3.5	10.8	11.4	11.4	12.4	12.5	12.6	59
1.8	2.1	2.1	8.3	8.8	8.8	1.1	1.1	1.1	5.8	6.1	6.2	5.1	5.0	5.1	60
77.9	80.9	81.0	320.5	342.2	332.0	80.2	81.3	81.7	295.5	311.7	313.7	257.9	253.3	259.3	61
5.8	5.9	6.0	36.1	38.6	38.5	5.3	5.6	5.6	24.8	26.1	26.4	28.1	27.6	27.7	62
9.5	9.6	9.7	52.6	54.4	53.9	8.4	8.6	8.6	42.3	42.8	43.0	29.6	30.2	30.7	63

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P
<b>MICHIGAN—Continued</b>												
1 Jackson	49.2	50.9	51.0	(1)	(1)	(1)	.8	1.2	1.1	15.5	15.9	16.2
2 Kalamazoo—Portage	102.0	102.2	104.7	(1)	(1)	(1)	3.2	3.4	3.4	34.5	35.5	35.3
3 Lansing—East Lansing	174.8	181.8	183.3	(1)	(1)	(1)	3.7	4.0	3.9	39.9	42.6	42.1
4 Muskegon—Norton Shores—Musk. Hts.	57.8	59.0	58.9	(1)	(1)	(1)	1.9	2.1	2.1	22.1	22.4	22.2
5 Saginaw	82.7	89.5	89.6	(1)	(1)	(1)	1.8	2.2	2.2	33.7	37.3	37.2
<b>6 MINNESOTA</b>	(5)	1,604.7	1,610.4	(5)	12.4	12.7	(5)	60.6	61.0	(5)	341.6	342.3
7 Duluth—Superior	(5)	57.3	57.3	(5)	(1)	(1)	(5)	1.9	1.9	(5)	8.0	8.0
8 Minneapolis—St. Paul	(5)	974.7	977.5	(5)	(1)	(1)	(5)	34.7	35.2	(5)	225.5	225.2
<b>9 MISSISSIPPI</b>	733.1	771.6	771.2	6.9	7.5	7.6	36.2	38.6	39.2	220.7	233.8	231.7
10 Jackson	123.6	129.3	130.9	1.0	1.1	1.1	6.3	6.6	6.9	17.9	18.3	18.3
<b>11 MISSOURI</b>	1,786.8	1,839.6	1,830.7	7.8	5.5	5.8	62.2	64.4	64.5	426.1	441.8	437.1
12 Kansas City	560.3	573.2	572.1	.5	.5	.5	21.2	20.4	20.0	113.9	120.8	120.9
13 St. Joseph	35.1	36.3	36.4	(3)	(3)	(3)	1.8	1.9	1.8	8.7	9.3	9.4
14 St. Louis	911.2	916.9	909.1	2.5	1.6	1.5	31.7	30.7	29.7	245.5	244.8	240.0
15 Springfield	75.6	75.2	75.7	.1	.1	.1	3.0	2.9	2.7	18.5	17.9	18.0
<b>16 MONTANA</b>	248.3	262.0	262.4	5.9	6.4	6.4	11.5	13.2	13.2	24.0	23.5	23.6
17 Billings	40.9	42.0	41.9	(1)	(1)	(1)	2.1	2.4	2.4	3.5	3.5	3.4
18 Great Falls	27.9	29.3	29.2	(1)	(1)	(1)	1.7	1.5	1.4	1.7	1.6	1.6
<b>19 NEBRASKA</b>	574.0	579.2	577.0	1.5	1.4	1.4	26.5	25.7	23.9	90.3	91.0	89.8
20 Lincoln	91.9	90.7	91.5	-	-	-	3.6	3.9	3.6	13.4	13.2	13.1
21 Omaha	244.9	249.9	248.8	(3)	(3)	(3)	10.6	9.9	9.2	33.9	35.3	34.9
<b>22 NEVADA</b>	289.8	314.3	318.2	4.1	4.1	4.1	16.9	21.2	21.7	14.3	15.7	15.7
23 Las Vegas	160.5	171.9	173.5	.1	.2	.2	9.5	11.3	11.4	5.4	5.7	5.7
24 Reno	82.2	91.6	93.1	.4	.6	.6	5.4	7.4	7.8	6.3	7.2	7.2
<b>25 NEW HAMPSHIRE</b>	313.2	343.1	345.8	.3	.3	.3	11.6	18.1	17.7	96.7	104.4	104.7
26 Manchester	61.4	68.9	68.9	(3)	(3)	(3)	2.1	2.6	2.6	18.0	19.5	19.5
27 Nashua	46.1	50.0	50.0	(3)	(3)	(3)	1.3	2.1	2.0	21.1	22.1	22.1
<b>28 NEW JERSEY</b>	(5)	2,843.4	2,832.3	(5)	2.7	2.7	(5)	92.8	83.4	(5)	767.8	772.0
29 Atlantic City	(5)	62.4	60.9	(5)			(5)	2.9	2.6	(5)	7.5	7.7
30 Camden	(5)	304.4	304.0	(5)	.1	.1	(5)	9.8	9.0	(5)	67.6	68.2
31 Hackensack	(5)	368.4	367.4	(5)	(1)	(1)	(5)	11.7	10.6	(5)	107.5	108.5
32 Jersey City	(5)	227.9	228.9	(5)	-	-	(5)	4.1	4.0	(5)	71.0	71.4
33 Long Branch—Asbury Park	(5)	143.0	142.2	(5)	(1)	(1)	(5)	5.5	5.0	(5)	23.1	23.3
34 New Brunswick—Perth Amboy—Sayreville	(5)	264.5	262.0	(5)	(1)	(1)	(5)	7.4	6.7	(5)	87.4	87.7
35 Newark	(5)	898.9	890.0	(5)	1.1	1.1	(5)	29.3	26.0	(5)	244.1	244.8
36 Paterson—Clifton—Passaic	(5)	183.0	182.1	(5)	(1)	(1)	(5)	4.2	3.7	(5)	64.8	65.5
37 Trenton	(5)	157.4	158.1	(5)	(1)	(1)	(5)	2.3	2.1	(5)	38.4	38.6
38 Vineland—Millville—Bridgeton	(5)	55.5	55.6	(5)	(1)	(1)	(5)	1.5	1.3	(5)	19.9	19.6
<b>39 NEW MEXICO</b>	396.1	421.5	424.5	22.7	23.9	23.9	26.2	29.3	29.6	31.1	32.9	32.6
40 Albuquerque	158.2	167.7	169.2	(1)	(1)	(1)	10.7	12.0	12.0	16.0	16.7	16.8
<b>41 NEW YORK</b>	6,644.9	6,793.1	6,793.1	6.1	6.6	6.7	150.5	179.8	172.9	1,424.9	1,451.0	1,456.1
42 Albany—Schenectady—Troy	311.4	318.6	319.0	(1)	(1)	(1)	7.7	9.2	8.5	61.5	63.7	63.4
43 Binghamton	107.6	110.7	111.0	(1)	(1)	(1)	2.7	3.6	3.5	39.7	40.5	40.5
44 Buffalo	479.3	490.9	492.3	(1)	(1)	(1)	13.0	15.7	15.0	141.6	142.2	142.9
45 Elmira	35.4	36.6	36.5	(1)	(1)	(1)	.9	1.6	1.3	11.5	11.5	11.5
46 Monroe County	314.6	319.6	319.6	(1)	(1)	(1)	7.3	8.1	7.8	128.1	128.1	127.3
47 Nassau—Suffolk	789.7	826.2	820.8	(1)	(1)	(1)	24.4	30.1	27.6	147.4	153.4	152.0
48 New York—Northeastern New Jersey	(5)	6,276.5	(*)	(5)	3.5	(*)	(5)	162.8	(*)	(5)	1,326.1	(*)
49 New York and Nassau—Suffolk	4,306.3	4,373.7	4,368.2	1.9	1.8	1.8	94.5	107.2	102.7	757.6	762.6	769.3
50 New York SMSA	3,516.7	3,547.5	3,547.4	1.7	1.6	1.6	70.1	77.1	75.1	610.2	609.3	617.3
51 New York City	3,132.9	3,146.8	3,147.7	1.5	1.5	1.5	59.2	64.4	63.0	530.2	525.7	533.7
52 Poughkeepsie	84.5	87.1	88.4	(1)	(1)	(1)	2.0	2.5	2.2	27.6	29.2	29.5
53 Rochester	383.6	390.9	390.4	(1)	(1)	(1)	8.6	9.9	9.6	146.6	148.0	146.1
54 Rockland County	71.9	74.9	74.4	(1)	(1)	(1)	1.4	1.9	1.5	14.5	15.0	15.0
55 Syracuse	236.5	247.1	248.2	(1)	(1)	(1)	7.8	10.0	9.5	55.8	58.4	58.4
56 Utica—Rome	106.6	111.5	111.4	(1)	(1)	(1)	1.8	2.2	2.1	28.8	30.8	30.8
57 Westchester County	301.2	314.8	314.4	(1)	(1)	(1)	9.1	10.3	10.1	64.3	67.3	67.4
<b>58 NORTH CAROLINA</b>	2,079.8	2,152.8	2,157.7	4.7	4.7	4.8	95.2	96.5	98.5	760.8	788.3	790.3
59 Asheville	61.7	64.2	64.6	(1)	(1)	(1)	2.8	2.6	2.6	20.6	21.1	21.4
60 Charlotte—Gastonia	283.8	294.1	294.8	(1)	(1)	(1)	12.7	13.0	13.4	82.4	85.3	85.7
61 Greensboro—Winston-Salem—High Pt.	346.2	355.7	354.4	(1)	(1)	(1)	14.0	13.9	13.9	138.0	143.2	142.8

**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			
FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	
4.4	4.4	4.3	9.7	9.9	9.8	1.5	1.5	1.5	8.7	9.1	9.3	8.6	8.9	8.8	1
3.3	3.4	3.3	19.4	19.3	19.3	3.4	3.6	3.7	16.9	17.6	17.6	21.3	19.4	22.1	2
4.2	4.4	4.4	31.1	33.3	32.8	8.1	8.5	8.5	23.7	24.1	24.3	64.1	64.9	67.3	3
3.0	3.0	3.0	10.1	10.8	10.6	1.7	1.7	1.7	8.5	8.5	8.5	10.5	10.5	10.8	4
3.9	4.0	4.1	16.7	17.9	17.9	3.8	3.9	3.9	11.2	12.0	12.1	11.6	12.2	12.2	5
(5)	93.1	93.0	(5)	408.8	405.0	(5)	84.6	85.0	(5)	313.4	316.1	(5)	290.2	295.1	6
(5)	5.7	5.6	(5)	16.2	16.0	(5)	2.1	2.1	(5)	11.6	11.7	(5)	11.7	11.8	7
(5)	61.4	61.2	(5)	243.3	240.5	(5)	62.2	62.5	(5)	198.8	200.5	(5)	148.9	152.4	8
34.4	36.4	36.5	141.8	151.2	151.0	28.8	30.6	30.7	104.4	109.8	110.2	159.9	163.8	164.3	9
7.6	8.1	8.1	29.0	31.1	32.3	9.5	10.0	10.1	24.0	25.2	25.2	28.2	28.8	28.8	10
124.7	130.3	129.5	423.8	438.7	432.6	94.2	95.1	95.2	322.3	334.5	332.8	325.7	329.3	332.2	11
49.1	50.5	50.2	143.9	148.6	146.1	36.9	37.3	37.2	108.4	109.3	109.7	86.4	85.8	87.5	12
2.6	2.6	2.6	8.9	8.8	8.6	1.8	1.8	1.8	5.7	5.9	6.1	5.6	6.0	6.1	13
62.3	65.5	64.9	203.8	208.5	205.2	49.4	49.4	49.5	181.1	180.8	180.9	134.9	135.6	137.4	14
5.6	5.7	5.7	19.9	20.3	20.4	2.9	2.9	2.9	14.7	15.1	15.2	10.9	10.3	10.7	15
19.6	20.8	20.8	61.6	65.5	65.5	10.9	11.7	11.8	46.6	48.0	48.2	68.2	72.9	72.9	16
3.5	3.8	3.8	13.2	13.9	13.8	2.0	2.1	2.1	8.1	8.2	8.2	8.5	8.2	8.2	17
1.8	1.7	1.7	8.7	9.9	9.9	1.8	1.9	1.9	6.2	6.5	6.5	6.0	6.2	6.2	18
40.5	41.4	41.3	151.4	154.7	153.0	37.0	38.3	38.4	99.8	99.9	100.6	127.0	126.8	128.7	19
6.4	6.4	6.5	19.7	20.5	20.6	6.6	6.8	6.8	14.6	14.8	15.1	27.4	25.3	25.8	20
21.0	21.7	21.8	63.2	63.3	62.6	21.3	22.2	22.1	50.5	52.3	52.4	44.4	45.2	45.8	21
18.1	19.0	19.0	57.2	63.1	62.9	11.9	13.4	13.5	118.8	127.9	129.7	48.5	49.9	51.6	22
10.2	10.6	10.6	32.6	35.7	35.7	6.4	7.0	7.1	74.8	79.0	79.8	21.5	22.4	23.0	23
5.7	5.9	5.9	17.3	19.3	19.2	4.5	5.0	5.1	28.9	32.4	32.9	13.7	13.8	14.4	24
12.0	12.3	12.4	67.6	74.4	74.4	15.6	16.9	17.1	58.3	63.3	63.7	51.1	53.4	55.5	25
3.9	4.0	4.0	14.5	17.7	17.7	4.5	5.0	5.0	11.1	11.8	11.8	7.3	8.3	8.3	26
1.7	1.6	1.7	9.3	9.9	9.9	1.5	1.7	1.7	6.7	7.5	7.5	4.5	5.1	5.1	27
(5)	185.9	185.6	(5)	632.3	624.0	(5)	145.6	146.4	(5)	514.6	515.8	(5)	501.7	502.4	28
(5)	3.4	3.4	(5)	16.3	15.5	(5)	4.1	4.2	(5)	14.3	13.6	(5)	13.9	13.9	29
(5)	14.4	14.3	(5)	81.1	79.6	(5)	14.9	15.1	(5)	58.2	59.0	(5)	58.3	58.7	30
(5)	18.1	18.2	(5)	110.1	108.7	(5)	14.0	13.9	(5)	64.7	65.3	(5)	42.3	42.2	31
(5)	28.0	28.4	(5)	45.1	44.6	(5)	8.8	8.9	(5)	28.2	28.2	(5)	42.7	43.4	32
(5)	6.1	6.0	(5)	35.7	34.9	(5)	6.8	6.8	(5)	32.8	32.8	(5)	33.0	33.4	33
(5)	17.4	17.4	(5)	59.4	58.7	(5)	8.2	8.2	(5)	35.1	35.0	(5)	49.6	48.3	34
(5)	68.5	67.3	(5)	173.1	171.0	(5)	61.1	61.4	(5)	173.2	172.3	(5)	148.5	146.1	35
(5)	6.6	6.5	(5)	42.8	41.4	(5)	9.2	9.2	(5)	27.7	27.4	(5)	27.7	28.4	36
(5)	5.4	5.3	(5)	23.1	23.2	(5)	6.4	6.3	(5)	37.0	37.4	(5)	44.8	45.2	37
(5)	2.8	2.9	(5)	8.4	8.4	(5)	3.2	3.2	(5)	7.9	7.9	(5)	11.8	12.3	38
24.1	25.6	25.7	89.8	97.8	97.4	17.4	18.6	18.6	74.1	81.6	82.6	110.7	111.8	114.1	39
9.0	9.5	9.7	40.4	43.6	43.4	8.9	9.5	9.5	35.7	38.1	38.5	37.5	38.3	39.3	40
424.4	421.2	422.3	1,378.8	1,418.5	1,402.1	571.0	576.1	575.2	1,446.3	1,471.2	1,478.6	1,242.8	1,268.8	1,279.2	41
15.2	14.8	14.8	61.3	64.0	63.3	14.1	14.3	14.4	60.3	61.1	61.5	91.2	91.4	93.1	42
4.5	4.7	4.7	20.0	20.9	20.6	3.5	3.5	3.6	15.1	15.2	15.3	22.2	22.3	22.8	43
25.0	26.6	26.7	105.4	109.3	108.4	20.6	21.3	21.3	86.6	89.6	90.6	87.1	86.1	87.4	44
1.4	1.4	1.4	7.8	8.1	8.1	1.0	1.0	1.0	6.2	6.2	6.4	6.6	6.8	6.9	45
10.0	10.0	9.9	57.8	60.5	59.5	13.8	14.3	14.2	59.9	59.8	61.5	37.7	38.8	39.4	46
35.2	35.0	34.9	210.1	220.5	217.6	44.9	45.5	45.4	162.5	167.0	167.1	165.3	174.7	176.2	47
(5)	444.4	(*)	1,346.7	(*)	(*)	(5)	578.1	(*)	1,018.2	1,036.5	1,036.1	727.8	746.6	748.2	48
318.5	311.1	311.7	913.0	930.0	921.4	474.9	477.7	476.9	1,018.2	1,036.5	1,036.1	727.8	746.6	748.2	49
283.3	276.1	276.8	702.9	709.5	703.8	430.0	432.3	431.5	855.9	869.7	869.2	562.5	571.9	572.0	50
261.5	254.4	255.1	613.5	614.5	609.9	411.6	413.4	412.6	766.0	776.6	776.1	489.4	496.3	495.8	51
2.8	2.8	2.9	14.2	14.8	14.8	2.5	2.4	2.4	14.8	14.5	15.1	20.7	20.9	21.7	52
12.8	12.8	12.7	73.0	76.2	75.0	15.2	15.7	15.7	70.0	69.2	71.4	57.3	58.9	60.0	53
3.5	3.6	3.6	15.4	15.8	15.8	2.2	2.2	2.2	15.5	16.0	15.9	19.4	20.4	20.4	54
13.3	13.8	13.7	52.4	55.5	54.6	14.4	14.7	14.7	47.7	47.4	49.2	45.2	47.3	48.0	55
3.8	3.9	3.9	19.9	21.1	20.8	5.1	5.3	5.3	18.2	18.9	19.1	28.9	29.3	29.5	56
17.7	17.4	17.5	71.3	76.2	75.0	15.9	16.3	16.3	72.2	75.0	75.1	50.8	52.3	52.9	57
101.2	105.5	105.5	400.5	417.0	411.2	82.9	84.0	83.8	287.8	296.8	300.0	346.7	360.0	363.6	58
3.3	3.3	3.3	12.5	13.1	12.9	2.3	2.4	2.4	10.6	10.4	10.6	9.6	11.3	11.4	59
26.3	26.9	26.9	68.0	70.8	69.9	18.2	18.5	18.4	41.9	43.6	43.9	34.3	36.0	36.6	60
19.5	20.0	20.0	68.6	70.8	69.3	16.3	16.2	16.1	47.9	50.0	50.3	41.9	41.6	42.0	61

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P
<b>NORTH CAROLINA—Continued</b>												
1 Raleigh-Durham .....	223.6	231.8	232.8	(1)	(1)	(1)	9.6	10.4	10.6	35.9	37.0	37.1
<b>NORTH DAKOTA</b> .....	213.0	220.2	221.2	2.6	2.9	2.9	13.2	13.9	13.8	15.1	14.4	14.6
3 Fargo-Moorhead .....	56.4	58.8	59.0	(3)	(3)	(3)	3.1	3.4	3.3	5.0	4.8	4.8
<b>OHIO</b> .....	4,032.7	4,195.2	4,194.5	27.9	16.9	16.8	122.1	138.1	136.3	1,289.8	1,353.3	1,356.8
5 Akron .....	249.1	257.9	257.3	.2	.3	.3	5.3	6.2	6.0	83.4	84.8	84.5
6 Canton .....	142.2	147.5	148.2	.8	.8	.8	4.2	4.9	4.8	53.7	55.7	55.8
7 Cincinnati .....	534.8	559.2	561.0	.3	.4	.4	18.6	20.9	21.0	155.2	162.6	163.4
8 Cleveland .....	848.0	877.5	879.4	1.4	1.4	1.3	23.1	25.6	25.5	263.0	272.7	274.9
9 Columbus .....	447.0	467.3	467.1	.6	.8	.7	13.8	15.9	15.8	93.0	99.8	100.2
10 Dayton .....	327.5	345.6	345.0	.3	.4	.4	9.5	11.1	10.8	105.9	111.0	110.4
11 Toledo .....	279.8	293.3	293.9	.5	.6	.6	9.3	9.6	9.5	83.9	88.4	89.0
12 Youngtown-Warren .....	199.5	205.4	204.1	.3	.3	.3	5.3	6.2	6.0	78.6	80.8	79.0
<b>OKLAHOMA</b> .....	946.1	988.1	986.9	46.3	50.6	50.7	45.0	45.9	44.2	159.4	166.4	164.8
14 Oklahoma City .....	322.0	344.8	347.6	10.6	12.5	12.6	14.4	17.7	17.3	42.3	45.8	46.1
15 Tulsa .....	246.6	257.4	255.5	14.8	15.8	15.8	13.0	13.8	13.7	52.7	54.5	52.3
<b>OREGON</b> .....	888.9	943.9	946.0	1.5	1.6	1.6	35.9	39.8	40.4	192.5	206.2	207.2
17 Eugene-Springfield .....	91.5	96.5	97.0	(1)	(1)	(1)	3.9	4.5	4.6	19.9	19.4	19.6
18 Jackson County .....	-	-	-	-	-	-	-	-	-	7.2	7.4	7.4
19 Portland .....	469.2	498.0	501.0	(1)	(1)	(1)	19.9	21.7	22.1	94.6	102.7	104.4
20 Salem .....	74.8	79.9	80.1	(1)	(1)	(1)	3.7	4.9	4.8	10.8	11.4	11.4
<b>PENNSYLVANIA</b> .....	4,421.3	4,478.2	4,470.1	46.9	23.3	22.5	142.6	151.8	143.7	1,309.6	1,335.9	1,335.8
22 Allentown-Bethlehem-Easton .....	255.3	259.1	258.5	(1)	(1)	(1)	7.4	9.0	8.5	105.6	106.4	106.1
23 Altoona .....	49.4	51.8	50.9	(1)	(1)	(1)	1.8	2.3	2.2	12.5	12.8	12.1
24 Delaware Valley .....	1,492.0	1,512.9	1,510.7	(1)	(1)	(1)	43.5	46.1	43.2	374.8	380.0	379.1
25 Erie .....	106.4	110.9	111.3	(1)	(1)	(1)	2.5	2.9	2.9	41.2	43.2	43.3
26 Harrisburg .....	200.8	204.2	203.8	(1)	(1)	(1)	7.6	7.1	6.9	38.4	40.1	39.8
27 Johnstown .....	85.0	78.3	75.7	8.1	1.4	1.4	2.2	2.4	2.3	21.1	20.3	18.2
28 Lancaster .....	134.3	139.1	138.3	(1)	(1)	(1)	6.2	6.1	6.0	54.2	56.8	56.8
29 Northeast Pennsylvania .....	224.4	224.7	225.4	1.2	1.4	1.3	9.8	9.1	8.4	70.3	68.3	68.8
30 Philadelphia SMSA .....	1,782.9	1,817.2	1,814.1	(1)	(1)	(1)	52.2	56.0	52.2	438.8	447.5	447.2
31 Philadelphia City .....	787.7	791.3	792.9	(1)	(1)	(1)	13.9	14.5	13.8	152.4	155.1	155.2
32 Pittsburgh .....	873.6	886.7	884.0	11.4	1.2	1.1	33.1	36.1	34.9	239.6	244.1	244.3
33 Reading .....	130.2	134.4	134.3	(1)	(1)	(1)	3.5	4.5	4.3	50.7	52.9	52.8
34 Scranton .....	79.7	80.2	80.3	(1)	(1)	(1)	1.8	1.8	1.7	25.9	25.6	25.9
35 Wilkes-Barre-Hazleton .....	119.6	118.9	119.2	1.1	1.2	1.1	7.1	6.4	5.8	39.7	38.0	38.6
36 Williamsport .....	44.9	45.6	45.7	(1)	(1)	(1)	1.1	1.5	1.5	17.7	17.4	17.4
37 York .....	135.8	141.8	141.2	(1)	(1)	(1)	5.2	5.2	4.9	57.6	60.5	60.6
<b>RHODE ISLAND</b> .....	366.3	376.6	371.7	(1)	(1)	(1)	9.1	10.2	8.0	126.1	128.9	128.1
39 Providence-Warwick-Pawtucket .....	377.2	387.4	382.7	(1)	(1)	(1)	9.2	10.3	8.1	141.4	145.7	144.9
<b>SOUTH CAROLINA</b> .....	1,041.1	1,084.8	1,093.5	1.8	1.8	1.8	59.0	65.8	67.4	370.4	382.6	382.9
41 Charleston-North Charleston .....	125.1	133.0	133.6	(1)	(1)	(1)	9.2	10.7	10.6	17.1	18.1	18.3
42 Columbia .....	154.0	165.6	167.7	(1)	(1)	(1)	7.1	8.0	8.2	23.0	24.7	24.8
43 Greenville-Spartanburg .....	236.0	242.4	242.8	(1)	(1)	(1)	12.1	14.0	14.1	102.1	100.8	101.1
<b>SOUTH DAKOTA</b> .....	213.6	224.5	223.6	2.4	2.7	2.5	9.2	11.2	10.2	22.5	23.2	23.5
45 Rapid City .....	24.7	26.2	26.0	(3)	(3)	(3)	1.9	2.2	2.0	2.3	2.5	2.5
46 Sioux Falls .....	46.9	49.2	49.2	(3)	(3)	(3)	2.3	2.6	2.4	6.7	7.2	7.3
<b>TENNESSEE</b> .....	1,575.4	1,639.9	1,655.3	9.0	8.8	8.7	65.2	65.5	70.7	488.5	515.6	521.5
48 Chattanooga .....	158.6	162.3	162.8	1.2	1.1	1.1	5.2	5.5	5.5	54.0	55.1	55.1
49 Knoxville .....	178.7	183.6	183.5	1.5	1.6	1.6	9.0	10.3	10.3	50.8	52.3	52.2
50 Memphis .....	330.6	337.9	338.5	.1	.1	.1	12.7	13.4	13.6	58.5	60.9	61.2
51 Nashville-Davidson .....	319.5	330.3	332.8	(1)	(1)	(1)	15.6	14.8	16.0	79.9	82.1	82.6
<b>TEXAS</b> .....	4,761.0	4,961.0	4,970.9	147.3	162.7	163.2	321.6	333.6	333.7	873.3	922.4	923.9
53 Amarillo .....	67.2	69.2	69.0	(1)	(1)	(1)	4.1	4.8	4.6	8.8	8.7	8.7
54 Austin .....	195.1	203.2	208.1	(1)	(1)	(1)	10.2	11.4	11.7	21.4	23.8	23.7
55 Beaumont-Port Arthur-Orange .....	137.7	141.9	141.3	(1)	(1)	(1)	16.2	15.0	14.6	36.9	41.0	40.6
56 Corpus Christi .....	100.7	104.7	105.3	4.0	4.2	4.2	8.4	9.7	9.9	12.8	13.1	13.1
57 Dallas-Fort Worth .....	1,153.1	1,195.0	1,197.4	13.7	14.3	14.2	51.6	49.4	48.8	260.7	272.1	273.6
58 El Paso .....	138.5	140.1	140.8	(1)	(1)	(1)	7.3	8.2	8.5	29.2	28.4	28.8
59 Galveston-Texas City .....	65.5	69.3	69.3	(1)	(1)	(1)	4.8	4.8	5.0	11.6	11.7	11.6
60 Houston .....	1,124.7	1,199.7	1,204.4	48.7	50.8	50.7	115.8	127.8	128.7	189.3	196.6	198.4
61 Lubbock .....	78.9	83.0	83.8	(1)	(1)	(1)	4.5	4.8	4.6	11.0	12.6	12.7
62 San Antonio .....	335.6	345.1	348.0	1.7	1.8	1.8	19.4	22.5	22.5	40.5	43.5	44.0

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	
10.3	10.8	10.9	44.3	46.7	46.0	13.5	13.6	13.7	47.4	48.6	48.9	62.6	64.7	65.6	1
13.0	13.5	13.5	60.2	64.2	64.2	9.3	10.0	10.0	41.6	42.5	42.7	58.0	58.8	59.5	2
3.4	3.6	3.6	17.4	18.9	18.8	3.4	3.5	3.6	11.9	12.2	12.4	12.2	12.4	12.5	3
211.0	218.1	218.0	867.4	918.3	902.6	177.9	185.2	185.4	699.1	723.5	729.9	637.5	641.7	648.7	4
14.5	14.4	14.6	53.5	57.4	56.5	8.6	9.2	9.1	42.0	44.8	44.9	41.6	40.8	41.4	5
7.1	7.4	7.4	29.8	31.9	31.2	5.3	5.7	5.7	24.5	24.7	25.0	17.0	16.4	17.5	6
30.6	32.0	32.2	122.6	131.1	128.9	28.9	29.5	29.4	99.5	102.6	104.3	79.1	80.0	81.3	7
44.5	46.1	45.2	193.7	202.3	199.5	44.0	45.1	45.3	160.7	166.4	168.1	117.6	117.9	119.5	8
22.6	23.3	23.3	105.1	111.8	109.8	30.4	31.6	31.7	85.7	88.0	88.7	95.8	96.2	96.7	9
10.3	12.3	12.4	67.7	71.2	70.2	11.4	12.1	12.1	60.6	63.2	64.0	61.8	64.2	64.8	10
18.6	19.5	19.7	62.3	66.4	65.5	9.4	10.1	10.1	51.5	54.0	54.3	44.1	44.7	45.3	11
9.7	9.8	9.9	42.0	44.0	43.3	6.5	6.8	6.8	32.2	32.3	33.0	25.0	25.2	25.8	12
57.8	59.7	59.8	222.6	234.4	232.5	47.3	49.9	49.7	153.8	163.4	164.5	213.9	217.8	220.7	13
19.9	20.5	20.6	79.1	85.6	85.6	20.6	21.9	21.9	54.4	58.1	58.8	80.7	82.7	84.7	14
18.9	19.4	19.6	61.2	62.3	62.2	13.0	13.5	13.5	47.5	50.8	51.0	25.5	27.3	27.4	15
51.3	54.7	54.2	211.5	226.7	224.8	53.9	59.1	59.2	155.7	165.1	165.7	186.6	190.7	192.9	16
4.6	4.9	4.9	21.8	24.0	23.6	4.4	4.8	4.9	15.9	16.8	16.9	21.0	22.1	22.5	17
30.6	32.6	32.4	117.4	127.3	126.9	35.1	38.6	38.8	94.6	97.0	97.5	77.0	78.1	78.9	18
2.9	3.1	3.1	15.5	16.7	16.6	4.4	5.0	5.0	12.1	12.8	12.9	25.4	26.0	26.3	19
258.0	252.1	252.9	899.4	919.0	905.6	212.0	219.2	219.6	840.2	855.9	860.0	712.6	721.0	730.0	20
12.5	12.5	12.6	45.4	45.6	45.1	7.8	7.9	8.0	38.7	39.8	40.1	37.9	37.9	38.1	21
8.1	8.1	8.1	10.7	11.4	11.3	1.3	1.3	1.3	7.6	7.8	7.8	7.4	8.1	8.1	22
82.4	81.4	81.2	314.1	324.8	322.2	97.8	98.9	99.2	340.6	344.1	346.8	238.8	237.6	239.0	23
5.1	5.0	5.2	20.6	21.3	20.9	4.4	4.5	4.5	19.1	19.5	19.6	13.5	14.5	14.9	24
15.1	14.5	14.4	40.2	40.9	40.8	11.1	11.7	11.8	33.0	34.5	34.4	55.4	55.4	55.7	25
5.6	5.5	5.5	15.9	15.7	15.2	3.3	3.6	3.7	14.7	15.2	15.2	14.1	14.2	14.2	26
5.9	6.3	6.3	29.0	29.6	28.9	4.2	4.4	4.4	21.1	21.6	21.6	13.7	14.3	14.3	27
12.0	12.3	12.6	46.6	47.7	46.9	8.6	9.0	9.0	39.2	39.4	39.8	36.7	37.5	38.6	28
96.9	95.8	95.5	390.3	405.8	401.7	111.8	113.9	114.2	395.6	402.3	405.7	297.3	295.9	297.6	29
56.3	55.2	54.6	150.7	157.2	157.1	64.9	65.8	66.0	196.9	195.8	199.1	152.6	147.7	147.1	30
56.6	55.8	55.7	188.3	196.8	194.3	40.9	41.7	41.7	182.8	183.6	184.4	120.9	127.4	127.6	31
6.3	6.3	6.3	24.6	25.4	25.1	5.1	5.2	5.3	20.8	21.7	21.2	19.2	18.4	19.3	32
4.4	4.3	4.6	17.9	18.2	17.7	3.1	3.3	3.3	15.9	16.0	15.9	10.7	11.0	11.2	33
6.0	6.0	6.1	24.1	25.0	24.7	4.7	4.7	4.7	17.3	17.1	17.5	19.6	20.5	20.7	34
2.3	2.3	2.3	8.7	9.0	9.1	1.7	1.9	1.9	7.6	7.6	7.6	5.8	5.9	5.9	35
6.4	6.3	6.4	28.3	29.9	29.6	3.3	3.5	3.6	18.3	19.1	18.9	16.7	17.3	17.2	36
13.1	13.3	13.1	72.6	76.0	74.8	18.5	19.3	19.3	69.3	69.7	68.9	57.6	59.2	59.5	37
13.0	13.1	12.9	73.9	75.7	74.5	18.7	19.2	19.2	66.6	67.1	66.5	54.4	56.3	56.6	38
43.8	46.5	46.6	186.7	198.8	198.0	40.1	41.7	41.8	127.6	131.5	132.6	211.7	216.1	222.4	39
7.5	8.3	8.3	26.6	28.2	28.2	5.2	5.6	5.6	18.8	20.1	20.1	40.7	42.0	42.5	40
8.4	8.5	8.5	31.5	34.9	34.8	11.5	12.5	12.6	23.1	25.2	25.1	49.4	51.8	53.7	41
9.5	9.5	9.6	43.3	45.4	45.0	8.3	8.7	8.7	30.4	31.5	31.7	30.3	32.5	32.6	42
12.1	12.4	12.5	58.0	62.9	62.2	9.7	10.0	10.0	43.7	46.4	46.6	56.0	55.7	56.1	43
1.7	1.8	1.8	7.0	7.3	7.2	1.2	1.1	1.1	5.1	5.8	5.9	5.5	5.5	5.5	44
4.0	4.0	4.0	14.7	15.5	15.5	2.6	2.8	2.8	10.3	10.7	10.7	6.3	6.4	6.5	45
74.6	76.5	76.7	336.8	353.8	351.1	69.4	69.9	70.6	242.6	249.2	250.6	289.3	300.6	305.4	46
6.4	6.2	6.2	29.1	30.0	30.0	8.6	8.2	8.3	25.0	25.7	25.8	29.1	30.5	30.8	47
7.3	7.5	7.5	37.3	37.5	37.5	6.9	6.9	6.8	26.6	27.6	27.6	39.3	39.9	40.0	48
23.0	23.8	24.0	88.1	90.0	89.3	18.4	18.7	18.7	64.1	65.3	65.5	65.7	65.7	66.1	49
16.7	17.8	17.9	69.3	74.6	74.0	19.8	19.6	19.6	58.6	59.6	60.1	59.6	61.8	62.6	50
302.0	314.0	314.1	1,167.4	1,223.0	1,212.3	267.0	277.2	278.4	812.9	854.9	859.3	869.5	873.2	886.0	51
6.4	6.7	6.7	20.2	20.5	20.4	3.4	3.5	3.5	13.0	13.2	13.2	11.3	11.8	11.9	52
6.0	6.5	6.5	40.1	42.5	42.9	11.4	11.8	11.9	32.0	34.2	34.5	74.0	73.0	76.9	53
10.7	10.7	10.5	28.9	29.1	29.1	4.9	5.3	5.3	21.7	21.8	21.8	18.4	19.0	19.4	54
6.0	6.2	6.1	25.1	25.3	25.5	4.9	5.5	5.5	16.6	17.5	17.5	22.9	23.2	23.5	55
76.5	79.4	79.3	307.3	321.8	318.9	85.8	91.1	91.3	197.7	205.7	207.5	159.8	161.2	163.8	56
9.6	9.0	8.8	35.0	35.6	35.3	6.4	7.0	6.9	22.4	24.2	24.3	28.6	27.7	28.2	57
6.6	7.6	7.2	11.5	12.5	12.5	4.3	4.6	4.6	9.6	10.1	10.3	17.1	18.0	18.1	58
82.8	88.5	88.7	275.5	299.7	298.7	65.5	70.4	71.6	215.8	230.0	231.6	131.3	135.9	136.0	59
4.7	4.8	4.8	24.3	26.0	25.8	3.9	4.0	4.0	13.5	13.7	13.9	17.0	17.1	18.0	60
14.4	15.2	15.0	84.9	86.3	86.2	22.1	23.2	23.5	63.5	64.4	65.6	89.1	88.2	89.4	61

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Contract construction			Manufacturing		
	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P
<b>TEXAS—Continued</b>												
1 Waco .....	61.7	64.4	64.4	(1)	(1)	(1)	3.0	3.2	3.2	14.7	15.7	15.6
2 Wichita Falls .....	45.8	48.7	48.6	2.3	2.6	2.5	2.3	2.5	2.5	7.3	8.6	8.8
<b>UTAH</b>												
3 Salt Lake City—Ogden .....	468.3	487.7	490.3	14.9	13.9	13.7	26.6	28.5	28.3	71.4	75.1	75.8
4 .....	336.4	351.6	353.7	6.8	7.0	7.0	18.7	20.3	20.0	48.3	50.8	51.2
<b>VERMONT</b>												
5 Burlington <sup>17</sup> .....	169.3	177.3	178.4	.7	.6	.6	5.2	6.7	5.9	41.5	44.3	44.8
6 .....	44.1	46.1	46.9	-	-	-	-	-	-	10.3	10.9	11.1
7 Springfield <sup>17</sup> .....	12.5	13.5	13.5	-	-	-	-	-	-	5.2	5.7	5.7
<b>VIRGINIA</b>												
8 .....	1,844.8	1,910.1	1,904.4	22.2	11.6	11.4	98.4	101.9	100.1	391.4	403.9	403.7
9 Bristol .....	24.1	24.7	24.7	(1)	(1)	(1)	.9	.9	.9	8.7	8.7	8.8
10 Lynchburg .....	62.4	64.1	64.2	(1)	(1)	(1)	2.5	2.7	2.7	27.7	28.6	28.6
11 Newport News—Hampton .....	129.7	133.0	132.5	(1)	(1)	(1)	4.8	5.1	5.1	33.7	35.1	34.7
12 Norfolk—Virginia Beach—Portsmouth .....	248.2	257.2	256.2	(1)	(1)	(1)	13.7	14.2	14.1	26.3	27.4	27.7
13 Northern Virginia <sup>18</sup> .....	361.2	377.5	378.3	.3	.4	.4	20.8	22.7	22.6	13.8	14.5	14.5
14 Petersburg—Colonial Hts.—Hopewell .....	43.8	44.6	44.5	(1)	(1)	(1)	2.0	2.2	2.1	12.9	12.5	12.6
15 Richmond .....	285.5	301.9	301.9	.3	.4	.3	14.2	18.1	18.0	51.4	53.1	53.1
16 Roanoke .....	95.7	97.1	96.7	.2	.2	.2	4.4	4.2	4.2	21.3	21.1	21.0
<b>WASHINGTON</b>												
17 .....	1,286.8	1,367.7	(*)	2.0	2.1	(*)	65.9	71.3	(*)	247.7	272.2	(*)
18 Seattle—Everett .....	(5)	646.7	(*)	(5)	(1)	(*)	(5)	31.1	(*)	(5)	132.7	(*)
19 Spokane .....	108.5	(*)	(*)	(1)	(*)	(*)	4.3	(*)	(*)	14.9	(*)	(*)
20 Tacoma .....	122.2	(*)	(*)	(1)	(*)	(*)	5.3	(*)	(*)	19.4	(*)	(*)
<b>WEST VIRGINIA</b>												
21 .....	579.4	547.8	542.2	68.6	18.5	14.1	26.4	32.6	32.3	119.9	121.9	122.3
22 Charleston .....	104.6	100.9	100.1	6.6	1.8	1.7	5.6	5.8	5.6	19.2	19.1	19.2
23 Huntington—Ashland .....	97.8	96.0	95.5	.9	.7	.7	5.5	5.6	5.6	29.0	27.5	27.7
24 Parkersburg—Martinsburg .....	51.7	51.0	52.5	.4	.5	.5	2.4	2.4	2.3	16.7	15.5	16.6
25 Wheeling .....	61.9	57.4	56.7	7.4	1.5	.9	2.4	2.5	2.4	13.3	13.6	13.7
<b>WISCONSIN</b>												
26 .....	1,715.9	1,789.0	1,792.7	1.9	1.8	1.9	58.6	69.3	70.7	514.1	538.7	535.6
27 Appleton—Oshkosh .....	107.7	110.7	111.3	(1)	(1)	(1)	4.3	4.4	4.3	41.7	44.8	44.8
28 Green Bay .....	67.5	69.6	69.8	(1)	(1)	(1)	2.9	3.2	3.2	19.4	20.1	20.0
29 Kenosha .....	34.3	38.8	34.9	(1)	(1)	(1)	1.1	1.1	1.1	11.0	15.0	10.9
30 La Crosse .....	38.2	38.9	39.0	(1)	(1)	(1)	1.6	1.7	1.6	9.6	10.1	10.0
31 Madison .....	144.8	148.7	150.0	(1)	(1)	(1)	5.9	5.9	6.2	17.4	18.3	18.1
32 Milwaukee .....	601.4	618.5	618.4	(1)	(1)	(1)	18.0	20.6	20.9	196.1	202.9	202.2
33 Racine .....	61.1	65.7	66.6	(1)	(1)	(1)	1.9	1.9	2.1	27.9	28.4	28.9
<b>WYOMING</b>												
34 .....	153.9	166.9	165.8	22.7	27.2	27.2	12.9	14.8	14.3	8.8	9.0	8.7
35 Casper .....	28.1	31.3	31.2	5.2	6.1	6.1	2.3	2.8	2.7	1.6	1.7	1.7
36 Cheyenne .....	23.0	24.0	24.0	(1)	(1)	(1)	1.4	1.5	1.5	1.5	1.5	1.5

1 Combined with services.  
 2 Based on the 1967 Standard Industrial Classification Manual.  
 3 Combined with construction.  
 4 Chicago portion of the Chicago—Gary area revised to 1978 benchmark; Gary portion revised to 1977 benchmark; not strictly comparable with previously published data.  
 5 Data comparable with those shown are not available at this time.  
 6 Area included in Chicago—Gary Standard Consolidated Statistical Area.  
 7 Revised to 1977 benchmark; not strictly comparable with previously published data.  
 8 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.  
 9 Subarea of New York—Northeastern New Jersey.  
 10 Subarea of Rochester Standard Metropolitan Statistical Area.  
 11 Area included in New York and Nassau—Suffolk combined SMSA's.  
 12 Subarea of New York Standard Metropolitan Statistical Area.  
 13 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area:

Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.  
 14 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.  
 15 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.  
 16 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.  
 17 Total includes data for industry divisions not shown separately.  
 18 Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.  
 p—preliminary.  
 \* Not available.  
 SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	
3.0	3.1	3.1	14.0	14.9	14.8	3.5	3.7	3.7	12.8	12.9	13.1	10.7	10.9	10.9	1
2.3	2.5	2.5	11.7	12.4	12.3	2.1	2.2	2.2	7.0	7.3	7.3	10.8	10.6	10.5	2
27.6	29.7	29.8	111.3	118.7	118.3	21.2	22.7	22.8	79.1	83.8	84.4	116.0	115.3	117.3	3
22.0	23.7	23.7	83.5	89.3	88.8	17.5	18.7	18.9	53.9	57.2	57.5	85.6	84.6	86.6	4
8.1	8.4	8.4	34.4	36.7	37.1	6.8	7.1	7.1	40.7	42.2	42.1	32.1	31.4	32.5	5
2.0	2.1	2.1	9.4	9.6	9.8	-	-	-	9.7	10.3	10.4	-	-	-	6
.7	.8	.8	1.9	2.1	2.1	-	-	-	2.6	2.8	2.8	-	-	-	7
105.0	105.6	105.3	381.8	404.4	397.5	87.5	90.9	91.1	310.5	324.8	326.9	448.0	467.0	468.4	8
.9	.9	.9	5.8	6.1	5.9	.8	.8	.8	2.8	2.9	3.0	4.2	4.4	4.4	9
2.6	2.5	2.4	9.9	10.6	10.5	2.8	2.8	2.8	8.5	8.5	8.8	8.4	8.4	8.4	10
4.3	4.3	4.1	23.2	23.9	23.7	4.2	4.3	4.3	22.4	23.0	23.2	37.1	37.3	37.4	11
18.1	17.6	17.2	59.3	63.0	62.0	12.6	12.7	12.7	43.5	44.3	44.2	74.7	78.0	78.3	12
26.0	26.3	26.3	85.6	91.3	90.7	21.8	24.0	24.2	83.9	88.3	89.2	109.0	110.0	110.4	13
1.4	1.3	1.3	7.8	8.3	8.2	1.1	1.1	1.1	4.9	5.1	5.1	13.7	14.1	14.1	14
17.8	18.0	18.2	65.4	69.9	69.4	22.5	23.1	23.1	48.6	50.5	50.5	65.3	68.8	69.3	15
9.9	9.4	9.3	23.0	23.5	23.4	5.4	5.5	5.6	17.4	17.3	17.2	14.1	15.9	15.8	16
74.9	77.4	(*)	307.0	332.6	(*)	71.1	78.0	(*)	236.7	251.4	(*)	281.5	282.7	(*)	17
(5)	44.2	(*)	(5)	159.3	(*)	(5)	45.8	(*)	(5)	122.6	(*)	(5)	111.0	(*)	18
7.2	(*)	(*)	30.4	(*)	(*)	7.1	(*)	(*)	24.5	(*)	(*)	20.1	(*)	(*)	19
5.6	(*)	(*)	27.9	(*)	(*)	5.6	(*)	(*)	25.4	(*)	(*)	33.0	(*)	(*)	20
39.3	32.9	32.6	114.5	122.0	121.2	19.1	19.9	19.9	82.7	85.7	86.1	108.9	114.3	113.8	21
9.2	8.4	8.4	23.4	24.1	23.9	4.6	4.7	4.7	17.7	18.0	17.9	18.4	19.0	18.7	22
9.2	7.7	7.0	19.8	20.5	20.4	3.5	3.6	3.6	13.5	13.6	13.7	16.5	16.9	16.9	23
2.4	2.2	2.2	10.8	11.3	11.4	1.8	1.9	1.8	8.1	7.9	8.0	9.2	9.4	9.8	24
3.5	3.4	3.4	13.3	14.2	14.2	2.4	2.4	2.4	12.1	12.2	12.4	7.4	7.5	7.4	25
81.3	82.8	83.1	381.3	404.9	400.4	76.9	80.4	80.6	308.1	320.4	323.2	293.7	290.7	297.1	26
4.1	3.9	3.9	21.4	21.5	21.6	4.2	4.4	4.4	16.6	16.8	16.9	15.5	14.9	15.4	27
4.3	4.1	4.2	16.1	16.6	16.3	2.1	2.4	2.5	12.6	12.8	13.1	10.1	10.3	10.5	28
1.3	1.4	1.5	7.3	7.5	7.4	.8	.8	.8	7.0	7.2	7.4	5.9	5.8	5.8	29
2.1	2.0	2.1	9.9	10.4	10.6	.8	.9	.9	7.9	8.2	8.2	6.3	5.6	5.7	30
5.2	5.1	5.2	31.0	33.2	32.9	9.5	10.5	10.6	23.9	24.3	24.4	51.9	51.2	52.5	31
30.7	31.4	31.4	130.0	134.4	132.0	32.2	32.3	32.5	117.0	121.2	122.8	77.4	75.7	76.6	32
2.1	2.4	2.6	11.3	12.1	12.0	1.9	2.1	2.0	9.5	10.2	10.2	6.6	8.6	8.7	33
12.5	13.0	13.0	33.9	36.8	35.9	5.3	5.8	5.8	21.4	22.7	22.9	36.4	37.6	38.0	34
2.0	2.1	2.2	7.3	8.0	8.1	1.2	1.4	1.3	4.1	4.6	4.6	4.4	4.6	4.5	35
3.0	3.3	3.3	5.4	5.7	5.6	1.3	1.4	1.4	3.8	4.0	4.0	6.6	6.6	6.7	36



**ESTABLISHMENT DATA  
HISTORICAL HOURS AND EARNINGS**

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

Year and month	Average												
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	
	Total private <sup>1</sup>			Mining			Contract construction			Manufacturing			
1955.....	\$67.72	39.6	\$1.71	\$89.54	40.7	\$2.20	\$90.90	37.1	\$2.45	\$75.70	40.7	\$1.86	\$1.79
1956.....	70.74	39.3	1.80	95.06	40.8	2.33	96.38	37.5	2.57	78.78	40.4	1.95	<sup>a</sup> 1.89
1957.....	73.33	38.8	1.89	98.65	40.1	2.46	100.27	37.0	2.71	81.59	39.8	2.05	1.99
1958.....	75.08	38.5	1.95	96.08	38.9	2.47	103.78	36.8	2.82	82.71	39.2	2.11	2.05
1959 <sup>2</sup> .....	78.78	39.0	2.02	103.68	40.5	2.56	108.41	37.0	2.93	88.26	40.3	2.19	2.12
1960.....	80.67	38.6	2.09	105.44	40.4	2.61	113.04	36.7	3.08	89.72	39.7	2.26	2.20
1961.....	82.60	38.6	2.14	106.92	40.5	2.64	118.08	36.9	3.20	92.34	39.8	2.32	2.25
1962.....	85.91	38.7	2.22	110.43	40.9	2.70	122.47	37.0	3.31	96.56	40.4	2.39	2.31
1963.....	88.46	38.8	2.28	114.40	41.6	2.75	127.19	37.3	3.41	99.63	40.5	2.46	2.37
1964.....	91.33	38.7	2.36	117.74	41.9	2.81	132.06	37.2	3.55	102.97	40.7	2.53	2.44
1965.....	95.06	38.8	2.45	123.52	42.3	2.92	138.38	37.4	3.70	107.53	41.2	2.61	2.51
1966.....	98.82	38.6	2.56	130.24	42.7	3.05	146.26	37.6	3.89	112.34	41.3	2.72	2.59
1967.....	101.84	38.0	2.68	135.89	42.6	3.19	154.95	37.7	4.11	114.90	40.6	2.83	2.72
1968.....	107.73	37.8	2.85	142.71	42.6	3.35	164.49	37.3	4.41	122.51	40.7	3.01	2.88
1969.....	114.61	37.7	3.04	155.23	43.0	3.61	181.54	37.9	4.79	129.51	40.6	3.19	3.06
1970.....	119.46	37.1	3.22	164.40	42.7	3.85	195.45	37.3	5.24	133.73	39.8	3.36	3.24
1971.....	127.28	37.0	3.44	172.14	42.4	4.06	211.67	37.2	5.69	142.44	39.9	3.57	3.44
1972.....	136.16	37.1	3.67	187.43	42.5	4.41	222.51	36.9	6.03	154.69	40.6	3.81	3.66
1973.....	145.43	37.1	3.92	201.03	42.5	4.73	235.69	37.0	6.37	166.06	40.7	4.08	3.89
1974.....	154.45	36.6	4.22	220.90	42.4	5.21	249.08	36.9	6.75	176.40	40.0	4.41	4.24
1975.....	162.89	36.1	4.54	249.57	42.3	5.90	265.35	36.6	7.25	189.51	39.4	4.81	4.66
1976.....	176.29	36.2	4.87	274.78	42.8	6.42	284.93	37.1	7.68	207.60	40.0	5.19	5.00
1977.....	189.53	36.1	5.25	303.41	44.1	6.88	296.68	36.9	8.04	226.89	40.3	5.63	5.41
Mar.....	183.96	36.0	5.11	296.29	43.7	6.78	289.62	36.8	7.87	220.30	40.2	5.48	5.27
Apr.....	185.40	36.0	5.15	298.52	43.9	6.80	291.56	37.0	7.88	220.80	40.0	5.52	5.31
May.....	187.36	36.1	5.19	300.32	44.1	6.81	296.63	37.5	7.91	224.07	40.3	5.56	5.34
June.....	190.01	36.4	5.22	306.85	44.6	6.88	298.08	37.4	7.97	228.48	40.8	5.60	5.37
July.....	191.63	36.5	5.25	309.81	44.9	6.90	302.40	37.8	8.00	226.57	40.1	5.65	5.43
Aug.....	191.99	36.5	5.26	303.21	44.2	6.86	301.44	37.4	8.06	227.70	40.3	5.65	5.42
Sept.....	194.03	36.2	5.36	315.14	44.7	7.05	304.22	37.1	8.20	233.45	40.6	5.75	5.50
Oct.....	195.48	36.2	5.40	319.31	45.1	7.08	310.20	37.6	8.25	234.09	40.5	5.78	5.53
Nov.....	195.30	36.1	5.41	320.14	44.9	7.13	299.94	36.4	8.24	235.89	40.6	5.81	5.56
Dec.....	196.75	36.3	5.42	292.58	43.8	6.68	301.03	36.4	8.27	241.67	41.1	5.88	5.63
1978:													
Jan.....	193.25	35.2	5.49	290.28	42.5	6.83	276.72	33.1	8.36	231.86	39.1	5.93	5.70
Feb <sup>p</sup> .....	195.61	35.5	5.51	294.80	43.1	6.84	288.84	34.8	8.30	235.22	39.6	5.94	5.69
Mar <sup>p</sup> .....	197.97	35.8	5.53	300.03	43.8	6.85	298.69	35.9	8.32	240.19	40.3	5.96	5.71
	Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			
1955.....	-	-	-	\$55.16	39.4	\$1.40	\$63.92	37.6	\$1.70	-	-	-	-
1956.....	-	-	-	57.48	39.1	1.47	65.68	36.9	1.78	-	-	-	-
1957.....	-	-	-	59.60	38.7	1.54	67.53	36.7	1.84	-	-	-	-
1958.....	-	-	-	61.76	38.6	1.60	70.12	37.1	1.89	-	-	-	-
1959 <sup>2</sup> .....	-	-	-	64.41	38.8	1.66	72.74	37.3	1.95	-	-	-	-
1960.....	-	-	-	66.01	38.6	1.71	75.14	37.2	2.02	-	-	-	-
1961.....	-	-	-	67.41	38.3	1.76	77.12	36.9	2.09	-	-	-	-
1962.....	-	-	-	69.91	38.2	1.83	80.94	37.3	2.17	-	-	-	-
1963.....	-	-	-	72.01	38.1	1.89	84.38	37.5	2.25	-	-	-	-
1964.....	\$118.37	41.1	\$2.88	74.28	37.9	1.96	85.79	37.3	2.30	\$69.84	36.0	\$1.94	-
1965.....	125.14	41.3	3.03	76.53	37.7	2.03	88.91	37.2	2.39	73.60	35.9	2.05	-
1966.....	128.13	41.2	3.11	79.02	37.1	2.13	92.13	37.3	2.47	77.04	35.5	2.17	-
1967.....	131.22	40.5	3.24	81.76	36.5	2.24	95.46	37.0	2.58	80.38	35.1	2.29	-
1968.....	138.85	40.6	3.42	86.40	36.0	2.40	101.75	37.0	2.75	83.97	34.7	2.42	-
1969.....	148.15	40.7	2.64	90.78	35.6	2.55	108.70	37.1	2.93	90.57	34.7	2.61	-
1970.....	155.93	40.5	3.85	95.66	35.3	2.71	113.34	36.8	3.08	96.66	34.4	2.81	-
1971.....	169.24	40.2	4.21	100.39	35.1	2.86	120.66	36.9	3.27	103.28	34.2	3.02	-
1972.....	187.92	40.5	4.64	105.65	35.1	3.01	126.88	37.1	3.42	110.14	34.1	3.23	-
1973.....	204.62	40.6	5.04	111.04	34.7	3.20	132.10	36.9	3.58	117.64	34.0	3.46	-
1974.....	218.29	40.2	5.43	118.33	34.1	3.47	140.19	36.7	3.82	127.46	33.9	3.76	-
1975.....	234.43	39.6	5.92	126.75	33.8	3.75	150.75	36.5	4.13	137.23	33.8	4.06	-
1976.....	257.75	39.9	6.46	133.39	33.6	3.97	159.58	36.6	4.36	146.06	33.5	4.36	-
1977.....	278.29	40.1	6.94	142.52	33.3	4.28	168.36	36.6	4.60	157.31	33.4	4.71	-
Mar.....	267.73	39.9	6.71	139.02	33.1	4.20	165.07	36.6	4.51	153.85	33.3	4.62	-
Apr.....	271.32	39.9	6.80	140.01	33.1	4.23	166.16	36.6	4.54	154.51	33.3	4.64	-
May.....	273.20	40.0	6.83	141.10	33.2	4.25	167.63	36.6	4.58	155.51	33.3	4.67	-
June.....	275.25	40.3	6.83	143.14	33.6	4.26	166.16	36.6	4.54	156.11	33.5	4.66	-
July.....	280.89	40.3	6.97	145.95	34.1	4.28	168.45	36.7	4.59	158.18	33.8	4.68	-
Aug.....	282.40	40.4	6.99	145.52	34.0	4.28	169.28	36.8	4.60	157.72	33.7	4.68	-
Sept.....	284.71	40.1	7.10	144.52	33.3	4.34	169.73	36.5	4.65	159.36	33.2	4.80	-
Oct.....	286.08	39.9	7.17	145.85	33.3	4.38	173.22	36.7	4.72	161.99	33.4	4.85	-
Nov.....	290.56	40.3	7.21	144.87	33.0	4.39	172.39	36.6	4.71	161.68	33.2	4.87	-
Dec.....	291.77	40.3	7.24	147.07	33.5	4.39	173.85	36.6	4.75	163.50	33.3	4.91	-
1978:													
Jan.....	287.96	39.5	7.29	146.64	32.3	4.54	176.78	36.6	4.83	166.50	33.3	5.00	-
Feb <sup>p</sup> .....	292.40	40.0	7.31	147.42	32.4	4.55	176.30	36.5	4.83	166.16	33.1	5.02	-
Mar <sup>p</sup> .....	291.20	40.0	7.28	148.79	32.7	4.55	177.14	36.6	4.84	166.66	33.2	5.02	-

<sup>1</sup>For coverage of series, see footnote 1, table B-2.  
<sup>2</sup>Data include Alaska and Hawaii beginning 1959.

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

p = preliminary.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 P	Mar. 1978 P	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 P	Mar. 1978 P
-	<b>TOTAL PRIVATE</b> .....	\$182.73	\$183.96	\$193.25	\$195.61	\$197.97	\$5.09	\$5.11	\$5.49	\$5.51	\$5.53
-	<b>MINING</b> .....	292.71	296.29	290.28	294.80	300.03	6.76	6.78	6.83	6.84	6.85
10	<b>METAL MINING</b> .....	288.81	290.17	321.92	321.63	-	7.01	7.06	7.72	7.75	-
101	Iron ores .....	312.60	317.37	338.61	343.94	-	7.39	7.45	7.93	7.98	-
102	Copper ores .....	278.31	280.80	312.03	312.02	-	7.21	7.20	7.96	7.98	-
11,12	<b>COAL MINING</b> .....	333.26	345.28	289.93	306.45	-	8.29	8.30	8.19	8.26	-
12	Bituminous coal and lignite mining .....	334.03	346.94	291.33	308.38	-	8.33	8.34	8.30	8.38	-
13	<b>OIL AND GAS EXTRACTION</b> .....	281.67	281.06	298.59	299.70	-	6.11	6.11	6.65	6.66	-
131,2	Crude petroleum and natural gas fields ..	297.49	288.69	337.47	336.54	-	7.10	6.99	7.83	7.90	-
138	Oil and gas field services .....	274.56	277.06	283.04	284.28	-	5.72	5.76	6.18	6.18	-
14	<b>NONMETALLIC MINERALS, EXCEPT</b>										
	<b>FUELS</b> .....	242.52	244.28	233.19	247.20	-	5.64	5.59	6.01	6.00	-
142	Crushed and broken stone .....	230.59	233.45	215.55	231.24	-	5.35	5.33	5.81	5.81	-
-	<b>CONTRACT CONSTRUCTION</b> .....	288.41	289.62	276.72	288.84	298.69	7.88	7.87	8.36	8.32	8.32
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	281.09	284.06	268.46	285.12	-	7.68	7.74	8.16	8.10	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b>	269.66	270.96	252.22	271.93	-	6.95	6.93	7.44	7.45	-
161	Highway and street construction .....	252.44	252.33	223.78	244.45	-	6.54	6.47	6.70	6.75	-
162	Heavy construction, nec .....	280.08	282.30	268.31	287.73	-	7.20	7.22	7.84	7.84	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	298.69	299.16	288.86	296.82	-	8.32	8.31	8.78	8.73	-
171	Plumbing, heating, air conditioning .....	322.49	320.72	320.59	323.60	-	8.42	8.44	8.93	8.89	-
172	Painting, paper hanging, decorating .....	269.60	268.15	253.18	261.95	-	7.86	7.75	8.22	8.11	-
173	Electrical work .....	346.63	346.70	338.07	341.41	-	9.17	9.27	9.55	9.51	-
174	Masonry, stonework, and plastering .....	252.59	265.98	239.88	250.19	-	8.07	8.06	8.66	8.51	-
176	Roofing and sheetmetal work .....	234.05	233.42	196.09	221.80	-	7.43	7.41	7.63	7.57	-
-	<b>MANUFACTURING</b> .....	216.66	220.30	231.86	235.22	240.19	5.43	5.48	5.93	5.94	5.96
19,24,25, 32-39	<b>DURABLE GOODS</b> .....	233.92	238.27	250.51	254.47	260.76	5.79	5.84	6.31	6.33	6.36
20-23,26-31	<b>NONDURABLE GOODS</b> .....	192.76	194.54	204.37	207.05	211.18	4.93	4.95	5.35	5.35	5.36
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES</b> .....	246.04	249.70	265.20	265.59	265.47	6.06	6.12	6.63	6.69	6.67
192	Ammunition, except for small arms .....	252.10	255.15	268.71	272.95	268.41	6.24	6.30	6.89	6.91	6.90
1925	Complete guided missiles .....	280.26	286.59	305.20	210.27	-	6.92	6.99	7.63	7.68	-
1929	Ammunition, exc. for small arms, nec.	201.08	200.88	207.94	209.59	-	5.02	5.06	5.56	5.53	-
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	197.38	194.62	204.22	208.40	210.54	4.91	4.89	5.36	5.33	5.33
242	Sawmills and planing mills .....	197.21	194.88	205.74	212.78	214.25	4.81	4.80	5.33	5.28	5.29
2421	Sawmills and planing mills, general ..	206.32	203.50	216.33	222.86	-	5.02	5.00	5.59	5.53	-
243	Millwork, plywood and related products ..	204.17	203.66	214.18	214.34	218.59	5.13	5.13	5.52	5.51	5.52
2431	Millwork .....	190.12	192.37	202.46	204.29	-	4.90	4.92	5.30	5.32	-
2432	Veneer and plywood .....	227.14	225.63	245.96	242.90	-	5.46	5.45	5.97	5.91	-
244	Wooden containers .....	142.84	141.31	145.84	153.78	153.41	3.71	3.68	4.04	4.09	4.08
2441,2	Wooden boxes, shooks, and crates .....	140.56	139.43	140.66	147.20	-	3.67	3.65	3.94	4.00	-
249	Miscellaneous wood products .....	163.18	162.77	166.50	171.77	174.44	4.10	4.10	4.44	4.45	4.45
25	<b>FURNITURE AND FIXTURES</b> .....	156.00	159.64	167.77	176.28	178.42	4.16	4.19	4.51	4.52	4.54
251	Household furniture .....	145.41	149.67	156.71	166.49	169.34	3.93	3.97	4.27	4.28	4.32
2511	Wood household furniture .....	138.38	141.35	148.37	159.58	-	3.70	3.71	4.01	4.04	-
2512	Upholstered household furniture .....	154.03	159.10	164.42	173.28	-	4.22	4.30	4.58	4.56	-
2515	Mattresses and bedspings .....	167.35	167.81	182.85	190.19	-	4.56	4.56	4.85	4.94	-
252	Office furniture .....	188.73	188.18	197.29	205.53	-	4.73	4.74	5.02	5.10	-
254	Partitions and fixtures .....	197.22	199.25	206.21	211.83	-	5.07	5.07	5.37	5.39	-
253,9	Other furniture and fixtures .....	175.26	179.96	191.27	194.18	192.27	4.60	4.65	5.06	5.07	5.02
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> ..	225.48	229.48	235.41	241.20	246.00	5.54	5.57	5.99	6.00	6.00
321	Flat glass .....	302.46	292.40	309.60	313.39	-	7.10	7.08	7.74	7.70	-
322	Glass and glassware, pressed or blown ..	231.01	236.57	250.17	252.63	(*)	5.69	5.77	6.27	6.30	(*)
3221	Glass containers .....	234.93	245.78	258.65	257.36	-	5.73	5.88	6.45	6.45	-
3229	Pressed and blown glass, nec .....	224.24	222.48	238.00	245.02	-	5.62	5.59	6.01	6.08	-
324	Cement, hydraulic .....	316.35	321.20	342.37	339.89	(*)	7.55	7.54	8.23	8.21	(*)
325	Structural clay products .....	176.62	180.90	192.00	198.92	203.42	4.46	4.50	4.80	4.84	4.89
3251	Brick and structural clay tile .....	156.02	161.60	169.03	176.26	-	3.96	4.03	4.29	4.32	-
326	Pottery and related products .....	190.68	194.93	198.00	208.56	-	4.94	4.91	5.28	5.28	-
327	Concrete, gypsum, and plaster products .....	222.19	230.54	215.63	226.55	(*)	5.38	5.45	5.75	5.75	(*)
328,9	Other stone and nonmetallic mineral products .....	221.54	218.70	237.51	239.72	241.67	5.43	5.40	5.85	5.89	5.88
3291	Abrasive products .....	215.07	214.38	231.09	240.78	-	5.35	5.40	5.72	5.83	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Feb. 1977	Mar. 1977	Jan. 1977	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	Feb. 1977	Mar. 1977	Jan. 1977	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>
—	<b>TOTAL PRIVATE</b> .....	35.9	36.0	35.2	35.5	35.8	—	—	—	—	—
—	<b>MINING</b> .....	43.3	43.7	42.5	43.1	43.8	—	—	—	—	—
10	<b>METAL MINING</b> .....	41.2	41.1	41.7	41.5	—	—	—	—	—	—
101	Iron ores .....	42.3	42.6	42.7	43.1	—	—	—	—	—	—
102	Copper ores .....	38.6	39.0	39.2	39.1	—	—	—	—	—	—
11,12	<b>COAL MINING</b> .....	40.2	41.6	35.4	37.1	—	—	—	—	—	—
12	Bituminous coal and lignite mining .....	40.1	41.6	35.1	36.8	—	—	—	—	—	—
13	<b>OIL AND GAS EXTRACTION</b> .....	46.1	46.0	44.9	45.0	—	—	—	—	—	—
131,2	Crude petroleum and natural gas fields .....	41.9	41.3	43.1	42.6	—	—	—	—	—	—
138	Oil and gas field services .....	48.0	48.1	45.8	46.0	—	—	—	—	—	—
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	43.0	43.7	38.8	41.2	—	—	—	—	—	—
142	Crushed and broken stone .....	43.1	43.8	37.1	39.8	—	—	—	—	—	—
—	<b>CONTRACT CONSTRUCTION</b> .....	36.6	36.8	33.1	34.8	35.9	—	—	—	—	—
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	36.6	36.7	32.9	35.2	—	—	—	—	—	—
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	38.8	39.1	33.9	36.5	—	—	—	—	—	—
161	Highway and street construction .....	38.6	39.0	33.4	36.2	—	—	—	—	—	—
162	Heavy construction, nec .....	38.9	39.1	34.2	36.7	—	—	—	—	—	—
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	35.9	36.0	32.9	34.0	—	—	—	—	—	—
171	Plumbing, heating, air conditioning .....	38.3	38.0	35.9	36.4	—	—	—	—	—	—
172	Painting, paper hanging, decorating .....	34.3	34.6	30.8	32.3	—	—	—	—	—	—
173	Electrical work .....	37.8	37.4	35.4	35.9	—	—	—	—	—	—
174	Masonry, stonework, and plastering .....	31.3	33.0	27.7	29.4	—	—	—	—	—	—
176	Roofing and sheet metal work .....	31.5	31.5	25.7	29.3	—	—	—	—	—	—
—	<b>MANUFACTURING</b> .....	39.9	40.2	39.1	39.6	40.3	3.0	3.2	3.2	3.4	3.5
19,24,25, 32-39	<b>DURABLE GOODS</b> .....	40.4	40.8	39.7	40.2	41.0	3.1	3.3	3.4	3.7	3.7
20-23,28-31	<b>NONDURABLE GOODS</b> .....	39.1	39.3	38.2	38.7	39.4	2.9	2.9	2.9	3.1	3.1
	<b>DURABLE GOODS</b>										
19	<b>ORDNANCE AND ACCESSORIES</b> .....	40.6	40.8	40.0	39.7	39.8	2.5	2.7	2.7	3.4	—
192	Ammunition, except for small arms .....	40.4	40.5	39.0	39.5	38.9	2.3	2.4	2.7	3.0	—
1925	Complete guided missiles .....	40.5	41.0	40.0	40.4	—	—	—	—	—	—
1929	Ammunition, exc. for small arms, nec .....	40.2	39.7	37.4	37.9	—	—	—	—	—	—
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	40.2	39.8	38.1	39.1	39.5	3.6	3.5	3.3	3.7	—
242	Sawmills and planing mills .....	41.0	40.6	38.6	40.3	40.5	4.3	4.1	3.7	4.3	—
2421	Sawmills and planing mills, general .....	41.1	40.7	38.7	40.3	—	—	—	—	—	—
243	Millwork, plywood and related products .....	39.8	39.7	38.8	38.9	39.6	3.1	3.1	3.0	3.0	—
2431	Millwork .....	38.8	39.1	38.2	38.4	—	—	—	—	—	—
2432	Veneer and plywood .....	41.6	41.4	41.2	41.1	—	—	—	—	—	—
244	Wooden containers .....	38.5	38.4	36.1	37.6	37.6	2.3	2.3	2.3	2.7	—
2441,2	Wooden boxes, shooks, and crates .....	38.3	38.2	35.7	36.8	—	—	—	—	—	—
249	Miscellaneous wood products .....	39.8	39.7	37.5	38.6	39.2	3.5	3.4	3.0	3.4	—
25	<b>FURNITURE AND FIXTURES</b> .....	37.5	38.1	37.2	39.0	39.3	1.8	1.9	2.2	2.7	—
251	Household furniture .....	37.0	37.7	36.7	38.9	39.2	1.8	1.9	2.1	2.7	—
2511	Wood household furniture .....	37.4	38.1	37.0	39.5	—	2.2	2.3	2.5	3.2	—
2512	Upholstered household furniture .....	36.5	37.0	35.9	38.0	—	—	—	—	—	—
2515	Mattresses and bedsprings .....	36.7	36.8	37.7	38.5	—	—	—	—	—	—
252	Office furniture .....	39.9	39.7	39.3	40.3	—	2.6	2.1	3.0	3.2	—
254	Partitions and fixtures .....	38.9	39.3	38.4	39.3	—	1.9	2.2	2.3	2.7	—
253,9	Other furniture and fixtures .....	38.1	38.7	37.8	38.3	38.3	1.0	1.2	1.9	1.7	—
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	40.7	41.2	39.3	40.2	41.0	4.0	4.2	4.1	4.4	—
321	Flat glass .....	42.6	41.3	40.0	40.7	—	6.8	5.4	6.0	5.8	—
322	Glass and glassware, pressed or blown .....	40.6	41.0	39.9	40.1	(*)	4.3	4.1	4.1	4.2	—
3221	Glass containers .....	41.0	41.8	40.1	39.9	—	—	—	—	—	—
3229	Pressed and blown glass, nec .....	39.9	39.8	39.6	40.3	—	3.3	2.9	3.2	3.3	—
324	Cement, hydraulic .....	41.9	42.6	41.6	41.4	(*)	3.5	3.9	4.2	4.4	—
325	Structural clay products .....	39.6	40.2	40.0	41.1	41.6	3.2	3.5	4.0	4.3	—
3251	Brick and structural clay tile .....	39.4	40.1	39.4	40.8	—	—	—	—	—	—
326	Pottery and related products .....	38.6	39.7	37.5	39.5	—	2.4	2.4	2.1	2.6	—
327	Concrete, gypsum and plaster products .....	41.3	42.3	37.5	39.4	(*)	5.0	5.6	4.3	4.9	—
328,9	Other stone and nonmetallic mineral products .....	40.8	40.5	40.6	40.7	41.1	3.3	3.5	3.8	4.0	—
3291	Abrasive products .....	40.2	39.7	40.4	41.3	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>
<b>DURABLE GOODS—Continued</b>											
33	<b>PRIMARY METAL INDUSTRIES</b>	\$285.22	\$292.33	\$323.52	\$330.81	\$331.64	\$7.06	\$7.13	\$7.91	\$8.01	\$8.03
331	Blast furnace and basic steel products	311.65	321.20	370.55	382.44	(*)	7.93	7.99	9.06	9.26	(*)
3312	Blast furnaces and steel mills	317.49	327.62	379.85	392.64	—	8.12	8.17	9.31	9.53	—
332	Iron and steel foundries	264.31	266.26	281.29	287.70	291.46	6.51	6.51	6.98	7.00	7.04
3321	Gray iron foundries	274.44	277.79	288.64	296.95	—	6.71	6.71	7.18	7.19	—
3322	Malleable iron foundries	272.34	268.23	292.87	297.82	—	6.86	6.86	7.34	7.39	—
3323	Steel foundries	235.76	235.57	257.18	262.63	—	5.85	5.86	6.35	6.39	—
333,4	Nonferrous metals	285.23	287.99	328.55	329.33	335.44	6.94	5.99	7.86	7.86	7.93
3334	Primary aluminum	314.11	320.17	367.36	370.66	—	7.68	7.79	8.96	8.91	—
335	Nonferrous rolling and drawing	269.66	276.27	287.32	293.85	299.48	6.33	6.41	6.94	7.03	7.03
3351	Copper rolling and drawing	264.97	273.81	274.33	282.05	—	6.22	6.28	6.47	6.59	—
3352	Aluminum rolling and drawing	281.65	288.84	324.86	328.74	—	6.55	6.64	7.68	7.79	—
3357	Nonferrous wire drawing and insulating	267.95	271.78	265.17	269.69	—	6.29	6.35	6.58	6.61	—
336	Nonferrous foundries	222.63	223.99	239.40	240.20	(*)	5.47	5.49	6.00	5.99	(*)
3361	Aluminum castings	228.37	228.63	249.82	249.46	—	5.57	5.59	6.23	6.19	—
3362,9	Other nonferrous castings	214.80	217.62	225.72	227.83	—	5.33	5.36	5.70	5.71	—
339	Miscellaneous primary metal products	270.95	280.03	308.35	309.54	306.59	6.74	6.83	7.43	7.37	7.37
3391	Iron and steel forgings	288.55	294.35	330.64	332.28	—	7.16	7.25	7.91	7.80	—
34	<b>FABRICATED METAL PRODUCTS</b>	227.05	232.15	241.00	243.41	250.51	5.62	5.69	6.04	6.04	6.11
341	Metal cans	305.73	312.48	325.62	333.38	347.27	7.16	7.25	7.79	7.90	8.02
342	Cutlery, hand tools, and hardware	222.22	225.91	230.40	236.16	(*)	5.46	5.51	5.76	5.86	(*)
3421,3,5	Cutlery and hand tools, incl. saws	203.92	204.83	215.06	218.02	—	5.06	5.07	5.31	5.37	—
3429	Hardware, nec	234.52	240.53	240.58	247.20	—	5.72	5.81	6.06	6.18	—
343	Plumbing and heating, except electric	202.40	201.89	212.94	221.35	220.65	5.06	5.06	5.46	5.52	5.53
3431,2	Sanitary ware and plumbers' brass goods	203.26	201.33	216.94	227.55	—	5.12	5.11	5.52	5.55	—
3433	Heating equipment, except electric	201.40	203.31	209.37	216.31	—	5.01	5.02	5.41	5.49	—
344	Fabricated structural metal products	220.25	222.56	226.98	230.50	236.99	5.52	5.55	5.85	5.88	5.91
3441	Fabricated structural steel	229.71	233.45	232.03	237.46	—	5.70	5.75	6.09	6.12	—
3442	Metal doors, sash, and trim	170.17	174.15	181.07	183.83	—	4.49	4.50	4.74	4.75	—
3443	Fabricated plate work (boiler shops)	245.18	245.83	251.52	252.06	—	5.98	6.04	6.40	6.43	—
3444	Sheet metal work	224.72	227.29	236.34	241.13	—	5.59	5.64	6.06	6.12	—
3446,9	Architectural and misc. metal work	203.95	208.17	219.23	219.70	—	5.27	5.27	5.55	5.52	—
345	Screw machine products, bolts, etc	233.20	234.90	243.36	252.52	250.42	5.50	5.54	5.85	5.90	5.92
3451	Screw machine products	225.78	223.66	231.85	242.91	—	5.30	5.30	5.56	5.61	—
3452	Bolts, nuts, rivets, and washers	240.39	246.65	256.26	262.91	—	5.71	5.79	6.16	6.23	—
346	Metal stampings	248.77	264.47	283.61	276.08	(*)	6.33	6.53	7.02	6.80	(*)
347	Metal services, nec	185.26	186.59	191.00	194.13	195.51	4.62	4.63	4.86	4.89	4.90
348	Miscellaneous fabricated wire products	192.32	194.08	206.84	211.98	214.08	4.82	4.84	5.21	5.26	5.26
349	Miscellaneous fabricated metal products	231.84	232.40	245.81	249.08	251.94	5.60	5.60	6.01	6.09	6.13
3494,8	Valves, pipe, and pipe fittings	238.98	238.83	253.15	254.61	—	5.69	5.70	6.10	6.15	—
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	248.63	250.66	265.44	272.48	275.57	6.02	6.04	6.49	6.55	6.53
351	Engines and turbines	283.31	284.12	322.04	326.28	(*)	7.03	7.05	7.76	7.75	(*)
3511	Steam engines and turbines	258.55	263.31	263.09	276.50	—	6.48	6.55	6.96	7.00	—
3519	Internal combustion engines, nec	294.44	292.58	345.72	345.66	—	7.27	7.26	8.04	8.02	—
352	Farm machinery	259.90	261.43	274.51	283.68	—	6.37	6.33	6.88	6.97	—
353	Construction and related machinery	257.75	265.60	286.88	297.09	298.50	6.38	6.40	6.98	7.04	7.04
3531,2	Construction and mining machinery	270.96	283.03	310.64	322.76	—	6.93	6.92	7.67	7.74	—
3533	Oil field machinery	254.48	261.51	275.59	284.36	—	5.85	5.93	6.35	6.39	—
3535,6	Conveyors, hoists, cranes, monorails	231.60	231.73	248.98	254.52	—	5.79	5.75	6.24	6.30	—
3537	Industrial trucks and tractors	239.44	238.86	246.43	259.14	—	5.84	5.84	6.13	6.17	—
354	Metal working machinery	271.53	271.13	290.25	296.04	298.76	6.30	6.32	6.75	6.79	6.79
3541	Machine tools, metal cutting types	279.40	277.53	307.74	316.19	—	6.35	6.38	6.90	6.98	—
3544	Special dies, tools, jigs and fixtures	299.71	297.04	313.01	322.56	—	6.69	6.69	7.13	7.20	—
3545	Machine tool accessories	241.43	247.63	261.66	265.02	—	5.86	5.91	6.23	6.28	—
3542,8	Miscellaneous metal working machinery	231.90	231.38	247.44	249.29	—	5.74	5.77	6.14	6.11	—
355	Special industry machinery	235.04	234.58	246.24	249.08	(*)	5.65	5.68	6.08	6.12	(*)
3551	Food products machinery	243.26	244.73	252.73	257.40	—	5.89	5.94	6.35	6.34	—
3552	Textile machinery	190.76	193.44	197.85	193.15	—	4.71	4.74	5.06	5.03	—
3555	Printing trades machinery	252.70	246.19	265.43	265.97	—	5.96	5.99	6.35	6.44	—
356	General industrial machinery	246.15	246.19	259.29	267.49	(*)	5.96	5.99	6.45	6.54	(*)
3561	Pumps and compressors	248.95	253.20	261.20	273.41	—	5.97	6.00	6.53	6.62	—
3562	Ball and roller bearings	246.63	250.51	261.79	259.89	—	6.03	6.11	6.48	6.53	—
3564	Blowers and fans	233.66	228.63	230.89	258.45	—	5.59	5.59	5.89	6.11	—
3566	Power transmission equipment	248.95	245.37	265.20	273.55	—	5.97	5.97	6.50	6.56	—
357	Office and computing machines	221.37	221.90	224.78	230.04	(*)	5.36	5.36	5.55	5.57	(*)
3573	Electronic computing equipment	227.39	228.10	229.60	233.94	—	5.44	5.47	5.60	5.61	—
358	Service industry machines	213.15	218.14	229.12	239.40	(*)	5.41	5.44	5.89	5.97	(*)
3585	Refrigeration machinery	211.77	216.22	232.23	244.01	—	5.43	5.46	5.97	6.07	—
359	Miscellaneous machinery, except electrical	242.02	244.44	254.81	258.32	263.34	5.79	5.82	6.23	6.27	6.30

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
	<b>DURABLE GOODS—Continued</b>										
33	<b>PRIMARY METAL INDUSTRIES</b> .....	40.4	41.0	40.9	41.3	41.3	3.4	3.4	4.1	4.2	—
331	Blast furnace and basic steel products .....	39.3	40.2	40.9	41.3	(*)	2.5	2.6	3.4	3.6	—
3312	Blast furnaces and steel mills .....	39.1	40.1	40.8	41.2	—	2.4	2.5	3.4	3.5	—
332	Iron and steel foundries .....	40.6	40.9	40.3	41.1	41.4	4.2	3.9	4.8	4.7	—
3321	Gray iron foundries .....	40.9	41.4	40.2	41.3	—	4.5	4.2	5.3	5.1	—
3322	Malleable iron foundries .....	39.7	39.1	39.9	40.3	—	—	—	—	—	—
3323	Steel foundries .....	40.3	40.2	40.5	41.1	—	3.8	3.8	3.9	3.9	—
333,4	Nonferrous metals .....	41.1	41.2	41.8	41.9	42.3	3.3	3.4	4.0	4.1	—
3334	Primary aluminum .....	40.9	41.1	41.0	41.6	—	—	—	—	—	—
335	Nonferrous rolling and drawing .....	42.6	43.1	41.4	41.8	42.6	4.9	5.2	5.1	5.5	—
3351	Copper rolling and drawing .....	42.6	43.6	42.4	42.8	—	—	—	—	—	—
3352	Aluminum rolling and drawing .....	43.0	43.5	42.3	42.2	—	5.9	6.4	7.5	6.3	—
3357	Nonferrous wire drawing and insulating ..	42.6	42.8	40.3	40.8	—	4.4	4.7	3.5	4.5	—
336	Nonferrous foundries .....	40.7	40.8	39.9	40.1	(*)	3.2	3.2	3.9	3.6	—
3361	Aluminum castings .....	41.0	40.9	40.1	40.3	—	—	—	—	—	—
3362,9	Other nonferrous castings .....	40.3	40.6	39.6	39.9	—	—	—	—	—	—
339	Miscellaneous primary metal products .....	40.2	41.0	41.5	42.0	41.6	3.5	3.8	5.2	5.3	—
3391	Iron and steel forgings .....	40.3	40.6	41.8	42.6	—	—	—	—	—	—
34	<b>FABRICATED METAL PRODUCTS</b> .....	40.4	40.8	39.9	40.3	41.0	3.1	3.3	3.4	3.5	—
341	Metal cans .....	42.7	43.1	41.8	42.2	43.3	3.8	3.9	3.3	3.9	—
342	Cutlery, hand tools, and hardware .....	40.7	41.0	40.0	40.3	(*)	2.9	3.3	2.7	3.1	—
3421,3,5	Cutlery and hand tools, incl. saws .....	40.3	40.4	40.5	40.6	—	—	—	—	—	—
3429	Hardware, nec .....	41.0	41.4	39.7	40.0	—	—	—	—	—	—
343	Plumbing and heating, except electric .....	40.0	39.9	39.0	40.1	39.9	3.2	2.9	3.1	3.7	—
3431,2	Sanitary ware and plumbers' brass goods ..	39.7	39.4	39.3	41.0	—	—	—	—	—	—
3433	Heating equipment, except electric .....	40.2	40.5	38.7	39.4	—	—	—	—	—	—
344	Fabricated structural metal products .....	39.9	40.1	38.8	39.2	40.1	2.5	2.5	2.8	2.9	—
3441	Fabricated structural steel .....	40.3	40.6	38.1	38.8	—	2.7	2.7	2.5	2.7	—
3442	Metal doors, sash, and trim .....	37.9	38.7	38.2	38.7	—	—	—	—	—	—
3443	Fabricated plate work (boiler shops) .....	41.0	40.7	39.3	39.2	—	3.1	2.8	3.1	3.0	—
3444	Sheet metal work .....	40.2	40.3	39.0	39.4	—	—	—	—	—	—
3446,9	Architectural and misc. metal work .....	38.7	39.5	39.5	39.8	—	—	—	—	—	—
345	Screw machine products, bolts, etc .....	42.4	42.4	41.6	42.8	42.3	4.3	4.3	4.8	5.5	—
3451	Screw machine products .....	42.6	42.2	41.7	43.3	—	—	—	—	—	—
3452	Bolts, nuts, rivets, and washers .....	42.1	42.6	41.6	42.2	—	—	—	—	—	—
346	Metal stampings .....	39.3	40.5	40.4	40.6	(*)	3.2	4.3	4.5	3.5	—
347	Metal services, nec .....	40.1	40.3	39.3	39.7	39.9	3.5	3.4	3.3	3.5	—
348	Miscellaneous fabricated wire products .....	39.9	40.1	39.7	40.3	40.7	2.5	2.5	2.8	3.2	—
349	Miscellaneous fabricated metal products .....	41.4	41.5	40.9	40.9	41.1	3.3	3.4	3.7	3.9	—
3494,8	Valves, pipe, and pipe fittings .....	42.0	41.9	41.5	41.4	—	—	—	—	—	—
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	41.3	41.5	40.9	41.6	42.2	3.5	3.6	3.9	4.3	—
351	Engines and turbines .....	40.3	40.3	41.5	42.1	(*)	2.5	2.6	3.8	3.8	—
3511	Steam engines and turbines .....	39.9	40.2	37.8	39.5	—	—	—	—	—	—
3519	Internal combustion engines, nec .....	40.5	40.3	43.0	43.1	—	—	—	—	—	—
352	Farm machinery .....	40.8	41.3	39.9	40.7	—	3.8	3.8	3.2	3.3	—
353	Construction and related machinery .....	40.4	41.5	41.1	42.2	42.4	2.4	2.8	3.4	3.9	—
3531,2	Construction and mining machinery .....	39.1	40.9	40.5	41.7	—	1.6	2.3	2.7	3.1	—
3533	Oil field machinery .....	43.5	44.1	43.4	44.5	—	—	—	—	—	—
3535,6	Conveyors, hoists, cranes, monorails .....	40.0	40.3	39.9	40.4	—	—	—	—	—	—
3537	Industrial trucks and tractors .....	41.0	40.9	40.2	42.0	—	—	—	—	—	—
354	Metal working machinery .....	43.1	42.9	43.0	43.6	44.0	5.3	5.3	5.8	6.1	—
3541	Machine tools, metal cutting types .....	44.0	43.5	44.6	45.3	—	4.8	4.5	6.4	6.7	—
3544	Special dies, tools, jig and fixtures .....	44.8	44.4	43.9	44.8	—	—	—	—	—	—
3545	Machine tool accessories .....	41.2	41.9	42.0	42.2	—	3.7	4.1	4.3	4.9	—
3542,8	Miscellaneous metal working machinery .....	40.4	40.1	40.3	40.8	—	—	—	—	—	—
355	Special industry machinery .....	41.6	41.3	40.5	40.7	(*)	3.3	3.3	3.5	4.0	—
3551	Food products machinery .....	41.3	41.2	39.8	40.6	—	—	—	—	—	—
3552	Textile machinery .....	40.5	40.6	39.1	38.4	—	—	—	—	—	—
3555	Printing trades machinery .....	42.4	41.1	41.8	41.3	—	—	—	—	—	—
356	General industrial machinery .....	41.3	41.1	40.2	40.9	(*)	3.4	3.3	3.7	4.4	—
3561	Pumps and compressors .....	41.7	42.2	40.0	41.3	—	4.1	4.3	3.9	4.5	—
3562	Ball and roller bearings .....	40.9	41.0	40.4	39.8	—	3.1	3.3	4.1	4.4	—
3564	Blowers and fans .....	41.8	40.9	39.2	42.3	—	—	—	—	—	—
3566	Power transmission equipment .....	41.7	41.1	40.8	41.7	—	3.3	3.0	3.9	4.3	—
357	Office and computing machines .....	41.3	41.4	40.5	41.3	(*)	3.1	3.1	2.9	3.4	—
3573	Electronic computing equipment .....	41.8	41.7	41.0	41.7	—	—	—	—	—	—
358	Service industry machines .....	39.4	40.1	38.9	40.1	(*)	1.9	2.2	2.4	3.2	—
3585	Refrigeration machinery .....	39.0	39.6	38.9	40.2	—	1.8	2.1	2.3	3.0	—
359	Miscellaneous machinery, except electrical ..	41.8	42.0	40.9	41.2	41.8	4.0	4.2	4.3	4.5	—

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
	<b>DURABLE GOODS—Continued</b>										
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	\$208.35	\$208.24	\$220.70	\$222.78	\$226.73	\$5.17	\$5.18	\$5.63	\$5.64	\$5.64
361	Electric test and distributing equipment	216.80	215.74	231.02	228.31	237.56	5.34	5.34	5.79	5.78	5.78
3611	Electric measuring instruments	207.88	208.64	228.74	229.96	—	5.21	5.19	5.69	5.65	—
3612	Transformers	209.71	208.08	220.30	219.20	—	5.09	5.10	5.48	5.48	—
3613	Switchgear and switchboard apparatus	228.33	225.52	239.95	232.33	—	5.61	5.61	6.09	6.13	—
362	Electrical industrial apparatus	211.17	210.53	224.31	232.15	233.70	5.24	5.25	5.65	5.69	5.70
3621	Motors and generators	217.89	216.01	233.44	240.67	—	5.38	5.36	5.88	5.87	—
3622	Industrial controls	195.23	192.27	199.68	203.18	—	4.93	4.93	5.20	5.25	—
363	Household appliances	201.10	204.06	213.54	223.18	229.47	5.13	5.14	5.59	5.65	5.68
3632	Household refrigerators and freezers	222.61	218.24	244.61	257.23	—	5.39	5.31	6.01	6.01	—
3633	Household laundry equipment	218.04	231.86	243.75	265.86	—	6.04	6.15	6.57	6.68	—
3634	Electric housewares and fans	171.88	173.16	182.47	185.82	—	4.43	4.44	4.84	4.89	—
364	Electric lighting and wiring equipment	194.22	193.91	204.52	207.97	(*)	4.88	4.86	5.34	5.36	(*)
3641	Electric lamps	213.72	217.57	224.19	227.26	—	5.29	5.23	5.69	5.71	—
3642	Lighting fixtures	191.39	189.63	203.84	204.24	—	4.92	4.90	5.60	5.55	—
3643,4	Wiring devices	186.93	185.93	195.89	201.79	—	4.65	4.66	5.01	5.07	—
365	Radio and TV receiving equipment	176.53	181.74	197.32	196.65	(*)	4.72	4.77	5.29	5.23	(*)
366	Communication equipment	247.28	249.00	256.14	257.81	(*)	5.93	6.00	6.34	6.35	—
3661	Telephone and telegraph apparatus	260.90	258.30	260.65	262.04	—	6.11	6.15	6.50	6.47	—
3662	Radio and TV communication equipment	236.81	241.26	252.75	254.38	—	5.79	5.87	6.21	6.25	—
367	Electronic components and accessories	174.47	174.00	184.86	184.69	(*)	4.34	4.35	4.74	4.76	(*)
3671-3	Electron tubes	227.29	226.87	247.23	250.02	—	5.49	5.52	6.03	6.01	—
3674,9	Other electronic components	167.60	167.16	176.86	176.72	—	4.19	4.20	4.57	4.59	—
369	Miscellaneous electrical equip. and supplies	243.26	241.08	260.83	260.55	258.45	5.89	5.88	6.57	6.53	6.51
3694	Engine electrical equipment	264.13	261.53	280.28	281.71	—	6.38	6.41	7.15	7.15	—
37	<b>TRANSPORTATION EQUIPMENT</b>	281.67	296.80	300.70	299.60	316.92	6.87	7.00	7.48	7.49	7.60
371	Motor vehicles and equipment	314.75	342.77	337.02	336.20	(*)	7.53	7.72	8.18	8.18	(*)
3711	Motor vehicles	329.51	367.89	352.23	348.75	—	7.94	8.05	8.57	8.59	—
3712	Passenger car bodies	355.10	396.17	366.62	364.49	—	8.22	8.65	9.12	9.37	—
3713	Truck and bus bodies	238.00	246.84	250.43	257.92	—	5.95	6.05	6.34	6.40	—
3714	Motor vehicle parts and accessories	313.12	332.56	337.77	338.97	—	7.42	7.61	8.10	8.09	—
3715	Truck trailers	211.70	215.54	220.40	225.20	—	5.24	5.27	5.51	5.63	—
372	Aircraft and parts	281.48	282.31	300.66	298.66	(*)	6.75	6.77	7.21	7.32	(*)
3721	Aircraft	289.95	290.51	305.34	306.86	—	6.92	6.95	7.34	7.43	—
3722	Aircraft engines and engine parts	282.36	281.26	305.37	292.61	—	6.87	6.86	7.43	7.66	—
3723,9	Other aircraft parts and equipment	260.40	263.13	284.81	289.87	—	6.20	7.25	6.67	6.71	—
373	Ship and boat building and repairing	228.74	226.01	234.58	240.48	(*)	5.85	5.84	6.34	6.43	(*)
3731	Ship building and repairing	243.75	240.24	247.30	254.39	—	6.25	6.24	6.72	6.82	—
3732	Boat building and repairing	178.36	179.60	189.38	193.80	—	4.55	4.57	5.01	5.10	—
374	Railroad equipment	265.80	286.94	314.01	(*)	—	6.94	7.12	7.87	(*)	—
375,9	Other transportation equipment	177.25	181.58	181.08	182.37	—	4.64	4.68	5.03	5.08	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	207.06	205.53	215.42	220.00	226.19	5.10	5.10	5.44	5.50	5.49
381	Engineering and scientific instruments	218.69	218.69	232.30	236.61	—	5.36	5.36	5.75	5.93	—
382	Mechanical measuring and control devices	205.09	203.50	210.00	215.74	222.76	4.99	5.00	5.33	5.38	5.42
3821	Mechanical measuring devices	209.20	208.08	216.61	217.80	—	5.09	5.10	5.47	5.50	—
3822	Automatic temperature controls	196.73	195.69	199.80	213.20	—	4.81	4.82	5.11	5.20	—
383,5	Optical and ophthalmic goods	182.00	182.91	191.09	197.01	(*)	4.55	4.55	4.85	4.95	(*)
385	Ophthalmic goods	164.19	165.42	172.27	168.21	—	4.21	4.22	4.44	4.45	—
384	Medical instruments and supplies	179.95	178.48	183.91	188.42	191.35	4.51	4.53	4.74	4.77	4.76
386	Photographic equipment and supplies	267.21	264.04	286.47	288.11	(*)	6.47	6.44	6.97	7.01	(*)
387	Watches, clocks, and watchcases	166.03	163.90	161.63	173.21	—	4.13	4.16	4.31	4.43	—
39	<b>MISC. MANUFACTURING INDUSTRIES</b>	167.03	167.81	171.38	173.28	177.32	4.25	4.27	4.57	4.56	4.57
391	Jewelry, silverware, and plated ware	174.60	177.18	175.22	171.95	(*)	4.50	4.52	4.66	4.66	(*)
394	Toys and sporting goods	154.05	153.65	156.65	160.98	—	3.95	3.96	4.28	4.27	—
3941-3	Games, toys, dolls and play vehicles	146.31	144.40	145.44	150.02	—	3.82	3.80	4.12	4.11	—
3949	Sporting and athletic goods, nec	160.78	162.36	165.44	170.72	—	4.06	4.10	4.40	4.40	—
395	Pens, pencils, office and art supplies	168.80	171.23	188.02	192.23	—	4.22	4.27	4.76	4.70	—
396	Costume jewelry and notions	150.42	149.29	148.37	150.69	—	3.77	3.77	4.01	4.04	—
393,9	Other manufacturing industries	179.27	180.45	183.44	185.27	188.96	4.55	4.58	4.84	4.85	4.87
393	Musical instruments and parts	166.80	167.14	164.25	170.76	—	4.17	4.21	4.38	4.41	—
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS</b>	207.23	206.71	217.84	220.52	223.74	5.22	5.22	5.60	5.64	5.65
201	Meat products	209.58	205.74	218.27	219.45	218.86	5.36	5.33	5.64	5.70	5.67
2011.	Meat packing plants	264.60	261.04	278.10	276.89	—	6.30	6.29	6.75	6.82	—
2013	Sausages and other prepared meats	249.24	244.05	249.94	260.95	—	6.20	6.21	6.56	6.64	—
2015	Poultry dressing plants	119.36	119.02	131.04	129.94	—	3.42	3.43	3.64	3.65	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
<b>DURABLE GOODS—Continued</b>											
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	40.3	40.2	39.2	39.5	40.2	2.4	2.3	2.5	2.8	—
361	Electric test and distributing equipment	40.6	40.4	39.9	39.5	41.1	2.3	2.3	2.4	2.7	—
3611	Electric measuring instruments	39.9	40.2	40.2	40.7	—	1.9	1.9	2.6	2.7	—
3612	Transformers	41.2	40.8	40.2	40.0	—	—	—	—	—	—
3613	Switchgear and switchboard apparatus	40.7	40.2	39.4	37.9	—	—	—	—	—	—
362	Electrical industrial apparatus	40.3	40.1	39.7	40.8	41.0	2.5	2.3	2.9	3.3	—
3621	Motors and generators	40.5	40.3	39.7	41.0	—	2.7	2.6	3.3	3.8	—
3622	Industrial controls	39.6	39.0	38.4	38.7	—	1.8	1.2	1.6	1.8	—
363	Household appliances	39.2	39.7	38.2	39.5	40.4	1.9	2.2	2.1	2.4	—
3632	Household refrigerators and freezers	41.3	41.1	40.7	42.8	—	—	—	—	—	—
3633	Household laundry equipment	36.1	37.7	37.1	39.8	—	—	—	—	—	—
3634	Electric housewares and fans	38.8	39.0	37.7	38.0	—	1.7	1.8	1.8	2.2	—
364	Electric lighting and wiring equipment	39.8	39.9	38.3	38.8	(*)	2.4	2.2	2.3	2.6	—
3641	Electric lamps	40.4	41.6	39.4	39.8	—	2.2	2.2	2.2	2.4	—
3642	Lighting fixtures	38.9	38.7	36.4	36.8	—	2.4	2.0	2.3	2.2	—
3643,4	Wiring devices	40.2	39.9	39.1	39.8	—	2.4	2.3	2.3	3.0	—
365	Radio and TV receiving equipment	37.4	38.1	37.3	37.6	(*)	1.0	1.2	1.8	1.4	—
366	Communication equipment	41.7	41.5	40.4	40.6	(*)	2.8	2.6	2.5	2.7	—
3661	Telephone and telegraph apparatus	42.7	42.0	40.1	40.5	—	—	—	—	—	—
3662	Radio and TV communication equipment	40.9	41.1	40.7	40.7	—	2.4	2.4	2.7	3.0	—
367	Electronic components and accessories	40.2	40.0	39.0	38.8	(*)	2.3	2.1	2.4	2.9	—
3671,3	Electron tubes	41.4	41.1	41.0	41.6	—	1.6	1.7	2.6	3.1	—
3674,9	Other electronic components	40.0	39.8	38.7	38.5	—	2.4	2.2	2.4	2.9	—
369	Miscellaneous electrical equip. and supplies	41.3	41.0	39.7	39.9	39.7	3.7	3.4	4.1	4.1	—
3694	Engine electrical equipment	41.4	40.8	39.2	39.4	—	—	—	—	—	—
37	<b>TRANSPORTATION EQUIPMENT</b>	41.0	42.4	40.2	40.0	41.7	3.6	4.7	4.1	4.2	—
371	Motor vehicles and equipment	41.8	44.4	41.2	41.1	(*)	4.6	6.5	5.1	5.0	—
3711	Motor vehicles	41.5	45.7	41.1	40.6	—	4.5	7.7	5.0	5.4	—
3712	Passenger car bodies	43.2	45.8	40.2	38.9	—	—	—	—	—	—
3713	Truck and bus bodies	40.0	40.8	39.5	40.3	—	—	—	—	—	—
3714	Motor vehicle parts and accessories	42.2	43.7	41.7	41.9	—	4.9	5.7	5.2	4.7	—
3715	Truck trailers	40.4	40.9	40.0	40.0	—	—	—	—	—	—
372	Aircraft and parts	41.7	41.7	41.7	40.8	(*)	2.8	2.9	3.8	4.6	—
3721	Aircraft	41.9	41.8	41.6	41.3	—	2.3	2.3	3.2	3.7	—
3722	Aircraft engines and engine parts	41.1	41.0	41.1	38.2	—	3.1	3.0	3.9	5.5	—
3723,9	Other aircraft parts and equipment	42.0	42.1	42.7	43.2	—	3.6	3.9	4.9	5.1	—
373	Ship and boat building and repairing	39.1	38.7	37.0	37.4	(*)	2.3	2.7	2.3	2.4	—
3731	Ship building and repairing	39.0	38.5	36.8	37.3	—	—	—	—	—	—
3732	Boat building and repairing	39.2	39.3	37.8	38.0	—	—	—	—	—	—
374	Railroad equipment	38.3	40.3	39.9	(*)	—	2.1	2.4	3.4	(*)	—
375,9	Other transportation equipment	38.2	38.8	36.0	35.9	—	2.1	2.5	1.8	1.9	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	40.6	40.3	39.6	40.0	41.2	2.4	2.3	2.3	2.9	—
381	Engineering and scientific instruments	40.8	40.8	40.4	39.9	—	2.4	2.5	2.7	2.9	—
382	Mechanical measuring and control devices	41.1	40.7	39.4	40.1	41.1	2.8	2.6	2.6	3.1	—
3821	Mechanical measuring devices	41.1	40.8	39.6	39.6	—	2.8	2.6	2.7	3.4	—
3822	Automatic temperature controls	40.9	40.6	39.1	41.0	—	2.7	2.5	2.4	2.7	—
383,5	Optical and ophthalmic goods	40.0	40.2	39.4	39.8	(*)	2.2	2.3	1.9	2.7	—
385	Ophthalmic goods	39.0	39.2	38.8	37.8	—	1.8	1.9	1.5	1.8	—
384	Medical instruments and supplies	39.9	39.4	38.8	39.5	40.2	2.5	2.4	2.0	2.4	—
386	Photographic equipment and supplies	41.3	41.0	41.1	41.1	(*)	2.1	2.1	2.8	3.3	—
387	Watches, clocks, and watch cases	40.2	39.4	37.5	39.1	—	2.5	1.8	1.5	3.0	—
39	<b>MISC. MANUFACTURING INDUSTRIES</b>	39.3	39.3	37.5	38.0	38.8	2.0	2.0	1.8	2.3	—
391	Jewelry, silverware, and plated ware	38.8	39.2	37.6	36.9	(*)	2.3	2.4	1.8	2.4	—
394	Toys and sporting goods	39.0	38.8	36.6	37.7	—	1.5	1.6	1.1	1.7	—
3941,3	Games, toys, dolls and play vehicles	38.3	38.0	35.3	36.5	—	—	—	—	—	—
3949	Sporting and athletic goods, nec	39.6	39.6	37.6	38.8	—	—	—	—	—	—
395	Pens, pencils, office and art supplies	40.0	40.1	39.5	40.9	—	2.3	2.3	2.8	3.1	—
396	Costume jewelry and notions	39.9	39.6	37.0	37.3	—	2.3	1.9	2.1	2.7	—
393,9	Other manufacturing industries	39.4	39.4	37.9	38.2	38.8	2.1	2.1	2.0	2.5	—
393	Musical instruments and parts	40.0	39.7	37.5	38.7	—	1.8	1.8	1.3	1.9	—
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b>	39.7	39.6	38.9	39.1	39.6	3.7	3.5	3.6	3.8	—
201	Meat products	39.1	38.6	38.7	38.5	38.6	3.6	3.4	3.5	3.4	—
2011	Meat packing plants	42.0	41.5	41.2	40.6	—	4.5	4.5	4.2	4.0	—
2013	Sausages and other prepared meats	40.2	39.3	38.1	39.3	—	—	—	—	—	—
2015	Poultry dressing plants	34.9	34.7	36.0	35.6	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
	<b>NONDURABLE GOODS—Continued</b>										
	<b>FOOD AND KINDRED PRODUCTS—Continued</b>										
202	Dairy products .....	\$212.58	\$213.69	\$223.71	\$227.14	\$227.00	\$5.11	\$5.10	\$5.51	\$5.54	\$5.55
2024	Ice cream and frozen desserts .....	201.49	205.25	208.83	213.88	—	5.22	5.17	5.41	5.47	—
2026	Fluid milk .....	224.37	224.12	236.44	236.59	—	5.23	5.20	5.67	5.66	—
203	Canned, cured, and frozen foods .....	169.88	167.69	179.22	186.87	—	4.53	4.52	4.87	4.97	—
2031,6	Canned, cured, and frozen sea foods .....	136.35	136.55	158.10	161.46	—	4.07	4.04	4.53	4.51	—
2032,3	Canned food, except sea foods .....	184.99	183.82	192.47	206.75	—	4.83	4.85	5.16	5.37	—
2037	Frozen fruits and vegetables .....	161.70	157.45	167.32	168.67	—	4.20	4.21	4.45	4.51	—
204	Grain mill products .....	240.90	238.15	254.89	256.28	(*)	5.50	5.50	6.04	6.03	(*)
2041	Flour and other grain mill products .....	269.56	268.06	283.36	282.44	—	5.86	5.84	6.44	6.39	—
2042	Prepared feeds for animals and fowls .....	203.94	199.79	215.69	217.85	—	4.71	4.69	5.16	5.15	—
205	Bakery products .....	206.51	207.34	217.93	222.34	226.20	5.35	5.33	5.72	5.76	5.80
2051	Bread, cake, and related products .....	203.90	205.25	215.46	221.75	—	5.31	5.29	5.70	5.73	—
2052	Cookies and crackers .....	215.76	214.88	227.36	224.82	—	5.49	5.44	5.80	5.87	—
206	Sugar .....	226.33	236.02	238.99	251.02	—	5.63	5.69	6.24	6.42	—
207	Confectionery and related products .....	179.64	189.60	188.24	183.87	(*)	4.63	4.74	4.98	5.01	(*)
2071	Confectionery products .....	165.94	177.58	176.53	173.96	—	4.39	4.53	4.72	4.74	—
208	Beverages .....	239.95	246.98	257.01	256.47	(*)	6.09	6.19	6.59	6.61	(*)
2082	Malt liquors .....	327.54	346.72	361.12	363.85	—	7.95	8.12	8.66	8.81	—
2086	Bottled and canned soft drinks .....	179.88	179.64	186.75	189.00	—	4.66	4.63	4.98	5.00	—
209	Miscellaneous foods and kindred products ..	212.67	212.25	215.74	217.08	(*)	5.10	5.09	5.34	5.36	(*)
21	<b>TOBACCO MANUFACTURES .....</b>	206.75	202.07	221.12	228.22	242.81	5.37	5.36	5.96	5.99	6.21
211	Cigarettes .....	248.04	245.25	272.90	275.48	—	6.36	6.37	7.07	7.10	—
212	Cigars .....	125.88	124.49	129.11	129.18	—	3.43	3.42	3.48	3.52	—
22	<b>TEXTILE MILL PRODUCTS .....</b>	154.37	155.93	163.46	166.40	167.23	3.84	3.85	4.17	4.16	4.16
221	Weaving mills, cotton .....	159.59	161.98	175.80	175.05	174.17	3.96	3.97	4.33	4.28	4.29
222	Weaving mills, synthetics .....	162.00	161.99	178.30	181.36	182.25	4.00	3.99	4.37	4.37	4.36
223	Weaving and finishing mills, wool .....	159.53	158.37	170.34	171.17	171.20	3.91	3.92	4.28	4.29	4.28
224	Narrow fabric mills .....	143.35	144.84	147.83	151.71	(*)	3.62	3.63	3.87	3.89	(*)
225	Knitting mills .....	140.79	142.32	141.87	148.93	151.69	3.61	3.64	3.93	3.94	3.94
2251	Women's hosiery, except socks .....	128.02	125.03	135.42	137.58	—	3.36	3.37	3.65	3.63	—
2252	Hosiery, nec .....	129.45	129.16	124.15	138.34	—	3.38	3.39	3.63	3.65	—
2253	Knit outerwear mills .....	139.11	141.72	133.21	141.28	—	3.69	3.71	3.85	3.86	—
2254	Knit underwear mills .....	128.98	131.43	129.18	139.11	—	3.35	3.37	3.67	3.69	—
226	Textile finishing, except wool .....	168.08	172.23	177.64	182.04	183.34	4.14	4.15	4.43	4.44	4.45
227	Floor covering mills .....	165.60	164.76	171.47	176.75	—	4.00	3.97	4.33	4.29	—
228	Yarn and thread mills .....	145.44	148.83	157.98	159.15	160.33	3.60	3.63	3.92	3.92	3.92
229	Miscellaneous textile goods .....	175.14	174.30	184.63	183.71	(*)	4.17	4.19	4.57	4.57	(*)
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	125.32	126.74	127.49	133.67	138.55	3.55	3.57	3.84	3.83	3.87
231	Men's and boys' suits and coats .....	157.16	158.68	150.34	171.07	176.27	4.39	4.42	4.64	4.86	4.91
232	Men's and boys' furnishings .....	113.96	113.34	116.09	126.38	127.45	3.21	3.22	3.55	3.56	3.57
2321	Men's and boys' shirts and nightwear .....	111.23	108.39	115.19	125.63	—	3.16	3.16	3.48	3.48	—
2327	Men's and boys' separate trousers .....	113.43	113.10	115.52	125.98	—	3.25	3.25	3.61	3.62	—
2328	Men's and boys' work clothing .....	116.66	117.02	112.73	124.25	—	3.17	3.18	3.49	3.50	—
233	Women's and misses' outerwear .....	122.30	123.76	123.13	127.32	(*)	3.64	3.64	3.86	3.87	(*)
2331	Women's and misses' blouses and waists ..	119.67	120.74	121.60	123.13	—	3.53	3.52	3.73	3.72	—
2335	Women's and misses' dresses .....	120.70	122.95	121.35	125.61	—	3.68	3.67	3.94	3.95	—
2337	Women's and misses' suits and coats .....	136.78	135.05	134.83	136.60	—	4.12	4.13	4.24	4.20	—
2339	Women's and misses' outerwear, nec .....	119.01	112.14	121.48	127.65	—	3.41	3.46	3.67	3.70	—
234	Women's and children's undergarments .....	117.72	119.43	120.68	126.38	128.52	3.27	3.29	3.56	3.55	3.57
2341	Women's and children's underwear .....	113.40	115.43	116.57	122.49	—	3.15	3.18	3.49	3.47	—
2342	Corsets and allied garments .....	131.38	134.32	134.57	139.83	—	3.68	3.68	3.78	3.81	—
235	Hats, caps, and millinery .....	115.69	115.32	120.01	128.13	—	3.11	3.10	3.54	3.52	—
236	Children's outerwear .....	118.34	117.69	115.83	126.38	124.61	3.26	3.26	3.51	3.54	3.51
2361	Children's dresses and blouses .....	116.11	114.78	116.60	122.85	—	3.28	3.27	3.46	3.49	—
237,8	Fur goods and miscellaneous apparel .....	130.30	130.66	132.78	139.73	—	3.56	3.57	3.86	3.86	—
239	Miscellaneous fabricated textile products ..	147.31	155.07	154.57	150.28	(*)	3.96	4.07	4.27	4.14	(*)
2391,2	Housefurnishings .....	120.85	123.50	127.79	130.32	—	3.32	3.32	3.61	3.60	—
26	<b>PAPER AND ALLIED PRODUCTS .....</b>	239.55	242.53	261.86	262.71	269.41	5.69	5.72	6.22	6.27	6.28
261,2,6	Paper and pulp mills .....	283.52	285.49	312.94	318.44	322.92	6.40	6.43	7.08	7.14	7.16
263	Paperboard mills .....	287.98	294.81	320.45	317.55	(*)	6.59	6.67	7.25	7.30	(*)
264	Miscellaneous converted paper products .....	207.57	209.82	225.03	221.69	(*)	5.10	5.13	5.57	5.57	(*)
2643	Bags, except textile bags .....	197.47	199.51	213.72	212.40	—	4.84	4.89	5.29	5.31	—
265	Paperboard containers and boxes .....	210.12	213.42	229.34	230.93	(*)	5.15	5.18	5.58	5.66	(*)
2651,2	Folding and setup paperboard boxes .....	201.06	201.87	215.61	220.89	—	4.94	4.96	5.35	5.55	—
2653	Corrugated and solid fiber boxes .....	221.40	225.76	244.11	244.19	—	5.40	5.44	5.84	5.87	—
2654	Sanitary food containers .....	194.31	200.08	214.73	212.91	—	4.87	4.88	5.25	5.27	—

See footnotes at end of table.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
	<b>NONDURABLE GOODS—Continued</b>										
	<b>FOOD AND KINDRED PRODUCTS—Continued</b>										
202	Dairy products .....	41.6	41.9	40.6	51.0	40.9	3.9	4.0	3.9	4.2	—
2024	Ice cream and frozen desserts .....	38.6	39.7	38.6	39.1	—	—	—	—	—	—
2026	Fluid milk .....	42.9	43.1	41.7	41.8	—	—	—	—	—	—
203	Canned, cured, and frozen foods .....	37.5	37.1	36.8	37.6	—	2.9	2.4	2.7	3.2	—
2031,6	Canned, cured, and frozen sea foods .....	33.5	33.8	34.9	35.8	—	—	—	—	—	—
2032,3	Canned food, except sea foods .....	38.3	37.9	37.3	38.5	—	—	—	—	—	—
2037	Frozen fruits and vegetables .....	38.5	37.4	37.6	37.4	—	—	—	—	—	—
204	Grain mill products .....	43.8	43.3	42.2	42.5	(*)	6.3	5.5	6.3	6.1	—
2041	Flour and other grain mill products .....	46.0	45.9	44.0	44.2	—	—	—	—	—	—
2042	Prepared feeds for animals and fowls .....	43.3	42.6	41.8	42.3	—	—	—	—	—	—
205	Bakery products .....	38.6	38.9	38.1	38.6	39.0	3.2	3.2	2.9	3.3	—
2051	Bread, cake, and related products .....	38.4	38.8	37.8	38.7	—	—	—	—	—	—
2052	Cookies and crackers .....	39.3	39.5	39.2	38.3	—	—	—	—	—	—
206	Sugar .....	40.2	39.6	38.3	39.1	—	2.8	2.3	3.9	4.3	—
207	Confectionery and related products .....	38.8	40.0	37.8	36.7	(*)	2.5	2.5	2.8	2.4	—
2071	Confectionery products .....	37.8	39.2	37.4	36.7	—	—	—	—	—	—
208	Beverages .....	39.4	39.9	39.0	38.8	(*)	3.3	3.8	3.6	3.7	—
2082	Malt liquors .....	41.2	42.7	41.7	41.3	—	—	—	—	—	—
2086	Bottled and canned soft drinks .....	38.6	38.8	37.5	37.8	—	—	—	—	—	—
209	Miscellaneous foods and kindred products .....	41.7	41.7	40.4	40.5	(*)	4.5	4.5	4.3	4.4	—
21	<b>TOBACCO MANUFACTURES .....</b>	38.5	37.7	37.1	38.1	39.1	1.6	1.5	2.0	1.8	—
211	Cigarettes .....	39.0	38.5	38.6	38.8	—	1.8	1.7	2.4	1.9	—
212	Cigars .....	36.7	36.4	37.1	36.7	—	.8	.6	.7	1.0	—
22	<b>TEXTILE MILL PRODUCTS .....</b>	40.2	40.5	39.2	40.0	40.2	3.3	3.5	3.3	3.6	—
221	Weaving mills, cotton .....	40.3	40.8	40.6	40.9	40.6	3.5	3.8	4.1	3.9	—
222	Weaving mills, synthetics .....	40.5	40.6	40.8	41.5	41.8	3.2	3.3	3.4	3.8	—
223	Weaving and finishing mills, wool .....	40.8	40.4	39.8	39.9	40.0	3.0	3.2	3.3	3.7	—
224	Narrow fabric mills .....	39.6	39.9	38.2	39.0	(*)	2.9	3.0	2.5	2.9	—
225	Knitting mills .....	39.0	39.1	36.1	37.8	38.5	2.7	2.9	2.2	2.7	—
2251	Women's hosiery, except socks .....	38.1	37.1	37.1	37.9	—	—	—	—	—	—
2252	Hosiery, nec .....	38.3	38.1	34.2	37.9	—	—	—	—	—	—
2253	Knit outerwear mills .....	37.7	38.2	34.6	36.6	—	—	—	—	—	—
2254	Knit underwear mills .....	38.5	39.0	35.2	37.7	—	—	—	—	—	—
226	Textile finishing, except wool .....	40.6	41.5	40.1	41.0	41.2	3.8	4.0	3.9	4.1	—
227	Floor covering mills .....	41.4	41.5	39.6	41.2	—	4.1	3.8	3.8	3.8	—
228	Yarn and thread mills .....	40.4	41.0	40.3	40.6	40.9	3.4	3.9	3.7	4.0	—
229	Miscellaneous textile goods .....	42.0	41.6	40.4	40.2	(*)	4.2	3.9	3.9	4.1	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS .....</b>	35.3	35.5	33.2	34.9	35.8	1.1	1.2	.9	1.2	—
231	Men's and boys' suits and coats .....	35.8	35.9	32.4	35.2	35.9	1.0	.9	.6	.7	—
232	Men's and boys' furnishings .....	35.5	35.2	32.7	35.5	35.7	.9	1.0	.7	1.0	—
2321	Men's and boys' shirts and nightwear .....	35.2	34.3	33.1	36.1	—	1.0	1.0	.7	1.0	—
2327	Men's and boys' separate trousers .....	34.9	34.8	32.0	34.8	—	.8	.8	.7	1.0	—
2328	Men's and boys' work clothing .....	36.8	36.8	32.3	35.5	—	1.2	1.2	.6	.7	—
233	Women's and misses' outerwear .....	33.6	34.0	31.9	32.9	(*)	1.0	1.2	.9	1.1	—
2331	Women's and misses' blouses and waists .....	33.9	34.3	32.6	33.1	—	—	—	—	—	—
2335	Women's and misses' dresses .....	32.8	33.5	30.8	31.8	—	1.0	1.1	1.0	1.1	—
2337	Women's and misses' suits and coats .....	33.2	32.7	31.8	32.5	—	.9	1.1	1.1	1.2	—
2339	Women's and misses' outerwear, nec .....	34.9	35.3	33.1	34.5	—	1.2	1.4	.8	1.2	—
234	Women's and children's undergarments .....	36.0	36.3	33.9	35.6	36.0	.9	.9	.8	1.0	—
2341	Women's and children's underwear .....	36.0	36.3	33.4	35.3	—	—	—	—	—	—
2342	Corsets and allied garments .....	35.7	36.5	35.6	36.7	—	—	—	—	—	—
235	Hats, caps, and millinery .....	37.2	37.2	33.9	36.4	—	1.6	1.4	.7	1.1	—
236	Children's outerwear .....	36.3	36.1	33.0	35.7	35.5	1.3	1.4	1.0	2.1	—
2361	Children's dresses and blouses .....	35.4	35.1	33.7	35.2	—	—	—	—	—	—
237,8	Fur goods and miscellaneous apparel .....	36.6	36.6	34.4	36.2	—	1.0	1.0	.6	1.0	—
239	Miscellaneous fabricated textile products .....	37.2	38.1	36.2	36.3	(*)	1.3	1.7	1.8	1.5	—
2391,2	Housefurnishings .....	36.4	37.2	35.4	36.2	—	—	—	—	—	—
26	<b>PAPER AND ALLIED PRODUCTS .....</b>	42.1	42.4	42.1	41.9	42.9	4.2	4.4	4.9	5.0	—
261,2,6	Paper and pulp mills .....	44.3	44.4	44.2	44.6	45.1	5.8	5.8	6.4	6.2	—
263	Paperboard mills .....	43.7	44.2	44.2	43.5	(*)	6.7	6.9	7.3	7.5	—
264	Miscellaneous converted paper products .....	40.7	40.9	40.4	39.8	(*)	3.1	3.3	3.7	3.8	—
2643	Bags, except textile bags .....	40.8	40.8	40.4	40.0	—	—	—	—	—	—
265	Paperboard containers and boxes .....	40.8	41.2	41.1	40.8	(*)	2.9	3.2	3.7	4.0	—
2651,2	Folding and setup paperboard boxes .....	40.7	40.7	40.3	39.8	—	—	—	—	—	—
2653	Corrugated and solid fiber boxes .....	41.0	41.5	41.8	41.6	—	3.2	3.6	4.2	4.4	—
2654	Sanitary food containers .....	39.9	41.0	40.9	40.4	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 P	Mar. 1978 P	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 P	Mar. 1978 P
	<b>NONDURABLE GOODS—Continued</b>										
27	<b>PRINTING AND PUBLISHING</b> .....	\$222.38	\$224.47	\$233.58	\$235.85	\$241.42	\$5.93	\$5.97	\$6.33	\$6.34	\$6.37
271	Newspapers .....	219.02	220.74	231.15	236.94	238.32	6.48	6.55	6.90	7.01	7.03
272	Periodicals .....	228.00	229.90	243.27	244.69	—	6.00	6.05	6.47	6.56	—
273	Books .....	201.49	208.35	213.56	215.76	—	5.22	5.17	5.49	5.49	—
275	Commercial printing .....	231.84	233.40	243.20	243.08	(*)	5.96	6.00	6.40	6.38	(*)
2751	Commercial printing, except lithographic .....	221.76	222.53	234.74	236.22	—	5.76	5.78	6.21	6.20	—
2752	Commercial printing, lithographic .....	248.61	252.80	255.74	254.98	—	6.31	6.40	6.73	6.71	—
278	Blankbooks and bookbinding .....	181.89	185.40	187.78	186.05	(*)	4.64	4.67	4.89	4.82	(*)
274,6,7,9	Other publishing and printing ind. ....	230.68	230.23	240.16	242.82	245.99	5.93	5.98	6.32	6.34	6.34
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> .....	256.47	258.96	279.04	280.96	283.92	6.18	6.21	6.74	6.77	6.76
281	Industrial chemicals .....	287.02	291.06	319.45	322.24	324.09	6.85	6.93	7.57	7.60	7.59
2812	Alkalies and chlorine .....	288.98	284.69	338.34	344.44	—	6.93	6.91	7.85	7.90	—
2818	Industrial organic chemicals, nec. ....	309.01	315.09	345.91	345.95	—	7.34	7.52	8.12	8.14	—
2819	Industrial inorganic chemicals, nec. ....	278.81	281.90	302.02	305.45	—	6.67	6.68	7.26	7.29	—
282	Plastics materials and synthetics .....	251.91	253.95	274.98	276.89	279.05	6.07	6.09	6.61	6.64	6.66
2821	Plastics materials and resins .....	270.57	274.38	288.06	291.18	—	6.22	6.25	6.81	6.90	—
2823,4	Synthetic fibers .....	227.03	228.57	254.41	254.20	—	5.69	5.70	6.19	6.17	—
283	Drugs .....	238.62	237.46	251.33	252.94	(*)	5.82	5.82	6.13	6.23	(*)
2834	Pharmaceutical preparations .....	234.11	231.42	246.24	247.82	—	5.71	5.70	6.08	6.18	—
284	Soap, cleaners, and toilet goods .....	243.76	241.98	255.44	257.28	258.16	5.96	5.96	6.37	6.40	6.39
2841	Soap and other detergents .....	324.11	318.10	344.49	344.54	—	7.52	7.52	8.03	8.05	—
2844	Toilet preparations .....	193.55	193.45	196.32	198.74	—	4.90	4.91	5.18	5.23	—
285	Paints and allied products .....	231.01	238.14	245.20	252.35	258.55	5.69	5.78	6.13	6.17	6.23
287	Agricultural chemicals .....	241.98	244.64	258.69	260.34	265.61	5.55	5.51	6.13	6.14	6.12
2871,2	Fertilizers, complete and mixing only ..	228.15	232.51	238.11	238.83	—	5.15	5.11	5.71	5.70	—
286,9	Other chemical products .....	236.08	240.77	253.75	256.85	252.72	5.73	5.76	6.25	6.28	6.24
2892	Explosives .....	231.13	229.60	241.38	235.35	—	5.61	5.60	6.08	6.05	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	318.93	327.17	354.35	361.22	366.64	7.63	7.68	8.26	8.42	8.39
291	Petroleum refining .....	346.94	357.00	391.30	400.96	(*)	8.32	8.40	9.10	9.26	(*)
295,9	Other petroleum and coal products .....	232.96	239.68	246.65	245.37	(*)	5.56	5.60	5.79	5.87	(*)
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> .....	207.74	207.24	210.28	209.88	213.59	5.03	5.03	5.31	5.30	5.30
301	Tires and inner tubes .....	331.35	324.30	308.48	305.24	298.16	7.05	7.05	7.38	7.32	7.29
302,3,6	Other rubber products .....	197.60	200.38	208.15	209.35	(*)	4.94	4.96	5.31	5.30	(*)
302	Rubber footwear .....	129.93	131.69	140.25	137.26	—	3.55	3.54	3.76	3.73	—
307	Miscellaneous plastics products .....	174.07	174.44	183.38	183.69	(*)	4.33	4.35	4.69	4.71	(*)
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	131.40	131.04	137.88	140.12	143.96	3.60	3.61	3.83	3.86	3.87
311	Leather tanning and finishing .....	181.74	181.82	193.15	198.00	199.00	4.66	4.65	4.94	5.00	5.00
314	Footwear, except rubber .....	123.86	123.53	131.74	132.83	(*)	3.45	3.47	3.68	3.70	(*)
312,3,5,7,9	Other leather products .....	132.83	132.45	133.46	138.24	(*)	3.59	3.57	3.77	3.84	(*)
316	Luggage .....	131.36	131.04	138.55	140.32	—	3.69	3.61	3.97	3.95	—
317	Handbags and personal leather goods .....	128.43	128.08	127.75	135.34	—	3.49	3.49	3.65	3.77	—
—	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	270.95	267.73	287.96	292.40	291.20	6.74	6.71	7.29	7.31	7.28
4011	<b>RAILROAD TRANSPORTATION:</b> Class 1 railroads <sup>2</sup> .....	324.24	313.28	327.05	342.76	—	7.27	7.12	7.75	7.79	—
411	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b> Local and suburban transportation .....	226.86	220.81	235.13	235.85	—	5.70	5.59	6.06	6.11	—
413	Intercity highway transportation .....	262.96	263.63	282.96	268.42	—	6.92	7.03	7.71	7.54	—
42	<b>TRUCKING AND WAREHOUSING</b> .....	269.58	270.14	281.91	293.46	—	6.64	6.67	7.21	7.30	—
421,3	Trucking and trucking terminals .....	276.35	277.17	288.56	301.79	—	6.79	6.81	7.38	7.47	—
422	Public warehousing .....	188.96	186.31	200.31	203.90	—	4.87	4.89	5.23	5.31	—
46	<b>PIPE LINE TRANSPORTATION</b> .....	339.06	349.84	382.35	379.89	—	8.17	8.29	8.81	9.11	—
48	<b>COMMUNICATION</b> .....	262.15	262.28	293.30	293.22	—	6.62	6.64	7.26	7.24	—
481	Telephone communication .....	265.72	265.84	298.49	298.74	—	6.71	6.73	7.37	7.34	—
4817	Switchboard operating employees <sup>3</sup> .....	196.04	192.63	220.53	223.03	—	5.80	5.75	6.16	6.23	—
4818	Line construction employees <sup>4</sup> .....	337.98	339.70	402.28	402.19	—	7.86	7.90	8.90	8.82	—
482	Telegraph communication <sup>5</sup> .....	298.35	296.38	(*)	(*)	—	7.02	6.99	(*)	(*)	—
483	Radio and television broadcasting .....	244.61	243.36	278.95	275.49	—	6.24	6.24	7.08	7.01	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
	<b>NONDURABLE GOODS—Continued</b>										
27	<b>PRINTING AND PUBLISHING</b> .....	37.5	37.6	36.9	37.2	37.9	2.4	2.6	2.6	2.8	—
271	Newspapers .....	33.8	33.7	33.5	33.8	33.9	1.5	1.5	1.4	1.7	—
272	Periodicals .....	38.0	38.0	37.6	37.3	—	2.3	2.1	2.8	2.6	—
273	Books .....	38.6	40.3	38.9	39.3	—	2.8	3.9	3.8	3.9	—
275	Commercial printing .....	38.9	38.9	38.0	38.1	(*)	2.9	3.2	3.1	3.4	—
2751	Commercial printing, except lithographic .....	38.5	38.5	37.8	38.1	—	2.7	2.8	2.8	3.2	—
2752	Commercial printing, lithographic .....	39.4	39.5	38.0	38.0	—	3.2	3.6	3.4	3.6	—
278	Blankbooks and bookbinding .....	39.2	39.7	38.4	38.6	(*)	2.4	2.6	2.6	2.3	—
274,6,7,9	Other publishing and printing ind. ....	38.9	38.5	38.0	38.3	38.8	2.5	2.3	2.8	2.9	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> .....	41.5	41.7	41.4	41.5	42.0	3.2	3.3	3.4	3.7	—
281	Industrial chemicals .....	41.9	42.0	42.2	42.4	42.7	3.4	3.5	3.9	4.0	—
2812	Alkalies and chlorine .....	41.7	41.2	43.1	43.6	—	—	—	—	—	—
2818	Industrial organic chemicals, nec .....	42.1	41.9	42.6	42.5	—	3.3	3.3	3.9	3.7	—
2819	Industrial inorganic chemicals, nec. ....	41.8	42.2	41.6	41.9	—	3.4	3.5	3.3	3.6	—
282	Plastics materials and synthetics .....	41.5	41.7	41.6	41.7	41.9	2.9	3.1	3.2	3.5	—
2821	Plastics materials and resins .....	43.5	43.9	42.3	42.2	—	4.1	4.5	4.0	4.8	—
2823,4	Synthetic fibers .....	39.9	40.1	41.1	41.2	—	2.0	2.1	2.7	2.6	—
283	Drugs .....	41.0	40.8	41.0	40.6	(*)	3.1	2.9	2.7	3.0	—
2834	Pharmaceutical preparations .....	41.0	40.6	40.5	40.1	—	—	—	—	—	—
284	Soap, cleaners, and toilet goods .....	40.9	40.6	40.1	40.2	40.4	2.7	2.7	3.1	3.6	—
2841	Soap and other detergents .....	43.1	42.3	42.9	42.8	—	—	—	—	—	—
2844	Toilet preparations .....	39.5	39.4	37.9	38.0	—	—	—	—	—	—
285	Paints and allied products .....	40.6	41.2	40.0	40.9	41.5	2.6	3.1	2.7	3.5	—
287	Agricultural chemicals .....	43.6	44.4	42.2	42.4	43.4	5.4	6.0	4.6	4.9	—
2871,2	Fertilizers, complete and mixing only ....	44.3	45.5	41.7	41.9	—	—	—	—	—	—
286,9	Other chemical products .....	41.2	41.8	40.6	40.9	40.5	3.3	3.3	3.4	3.7	—
2892	Explosives .....	41.2	41.0	39.7	38.9	—	—	—	—	—	—
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	41.8	42.6	42.9	42.9	43.7	3.0	3.3	3.9	4.0	—
291	Petroleum refining .....	41.7	42.5	43.0	43.3	(*)	2.7	2.8	3.5	3.7	—
295,9	Other petroleum and coal products .....	41.9	42.8	42.6	41.8	(*)	3.8	4.7	5.0	4.9	—
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> .....	41.3	41.2	39.6	39.6	40.3	3.8	3.6	3.2	3.4	—
301	Tires and inner tubes .....	47.0	46.0	41.8	41.7	40.9	7.4	6.5	3.9	3.7	—
302,3,6	Other rubber products .....	40.0	40.4	39.2	39.5	(*)	2.8	3.0	3.1	3.2	—
302	Rubber footwear .....	36.6	37.2	37.3	36.8	—	1.3	1.1	2.0	1.9	—
307	Miscellaneous plastics products .....	40.2	40.1	39.1	39.0	(*)	3.1	3.0	3.1	3.3	—
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	36.5	36.3	36.0	36.3	37.2	1.5	1.6	1.6	1.7	—
311	Leather tanning and finishing .....	39.0	39.1	39.1	39.6	39.8	2.8	3.0	3.1	3.2	—
314	Footwear, except rubber .....	35.9	35.6	35.8	35.9	(*)	1.3	1.3	1.5	1.5	—
312,3,5-7,9	Other leather products .....	37.0	37.1	35.4	36.0	(*)	1.7	1.6	1.3	1.8	—
316	Luggage .....	35.6	36.3	34.9	35.5	—	1.9	1.9	1.7	2.0	—
317	Handbags and personal leather goods .....	36.8	36.7	35.0	35.9	—	1.6	1.4	1.0	2.0	—
—	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.2	39.9	39.5	40.0	40.0	—	—	—	—	—
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	44.6	44.0	42.2	44.0	—	—	—	—	—	—
411	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b> Local and suburban transportation .....	39.8	39.5	38.8	38.6	—	—	—	—	—	—
413	Intercity highway transportation .....	38.0	37.5	36.7	35.6	—	—	—	—	—	—
42	<b>TRUCKING AND WAREHOUSING</b> .....	40.6	40.5	39.1	40.2	—	—	—	—	—	—
421,3	Trucking and trucking terminals .....	40.7	40.7	39.1	40.4	—	—	—	—	—	—
422	Public warehousing .....	38.8	38.1	38.3	38.4	—	—	—	—	—	—
46	<b>PIPE LINE TRANSPORTATION</b> .....	41.5	42.2	43.4	41.7	—	—	—	—	—	—
48	<b>COMMUNICATION</b> .....	39.6	39.5	40.4	40.5	—	—	—	—	—	—
481	Telephone communication .....	39.6	39.5	40.5	40.7	—	—	—	—	—	—
4817	Switchboard operating employees <sup>3</sup> .....	33.8	33.5	35.8	35.8	—	—	—	—	—	—
4818	Line construction employees <sup>4</sup> .....	43.0	43.0	45.2	45.6	—	—	—	—	—	—
482	Telegraph communication <sup>5</sup> .....	42.5	42.4	(*)	(*)	—	—	—	—	—	—
483	Radio and television broadcasting .....	39.2	39.0	39.4	39.3	—	—	—	—	—	—

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
-	<b>TRANSPORTATION AND PUBLIC UTILITIES—Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	\$290.23	\$282.77	\$311.74	\$309.64	-	\$6.96	\$6.88	\$7.44	\$7.39	-
491	Electric companies and systems	292.03	289.39	319.70	317.77	-	7.02	6.99	7.54	7.53	-
492	Gas companies and systems	276.36	265.15	283.97	285.25	-	6.58	6.42	6.96	6.89	-
493	Combination companies and systems	317.18	306.64	347.26	336.10	-	7.68	7.59	8.19	8.06	-
494-7	Water, steam, and sanitary systems	239.28	228.80	249.64	255.17	-	5.63	5.54	6.03	6.09	-
-	<b>WHOLESALE AND RETAIL TRADE</b>	138.60	139.02	146.64	147.42	\$148.79	4.20	4.20	4.54	4.55	\$4.55
50	<b>WHOLESALE TRADE</b>	209.52	209.37	223.87	224.65	226.40	5.40	5.41	5.83	5.82	5.85
501	Motor vehicles and automotive equipment	185.25	190.30	199.26	199.79	-	4.75	4.83	5.23	5.23	-
502	Drugs, chemicals, and allied products	225.38	224.27	238.85	241.29	-	5.90	5.81	6.22	6.30	-
503	Dry goods and apparel	179.64	178.14	188.19	189.52	-	4.99	4.99	5.17	5.15	-
504	Groceries and related products	208.12	208.44	225.93	228.10	-	5.35	5.40	5.93	5.94	-
506	Electrical goods	220.02	217.11	239.34	238.37	-	5.57	5.61	6.09	6.05	-
507	Hardware, plumbing and heating equipment	194.16	198.00	210.76	208.95	-	5.03	5.09	5.46	5.47	-
508	Machinery, equipment, and supplies	230.22	230.98	246.93	244.73	-	5.77	5.76	6.22	6.18	-
509	Miscellaneous wholesalers	206.50	205.80	218.86	220.22	-	5.42	5.43	5.79	5.78	-
52-59	<b>RETAIL TRADE<sup>†</sup></b>	117.69	118.06	123.83	124.54	126.48	3.76	3.76	4.06	4.07	4.08
53	Retail general merchandise <sup>†</sup>	109.07	111.60	115.31	116.40	-	3.71	3.72	3.99	4.00	-
531	Department stores	112.03	115.83	116.75	118.43	-	3.89	3.90	4.14	4.17	-
532	Mail order houses	143.36	147.03	154.08	154.07	-	4.48	4.51	4.83	4.77	-
533	Variety stores	84.68	84.39	100.13	97.44	-	2.91	2.90	3.36	3.36	-
54	Food stores	145.78	145.96	155.56	157.50	-	4.57	4.59	4.97	5.00	-
541-3	Grocery, meat, and vegetable stores	149.91	150.55	160.21	161.67	-	4.67	4.69	5.07	5.10	-
56	Apparel and accessory stores	96.90	97.24	105.49	104.04	-	3.33	3.33	3.65	3.60	-
561	Men's and boys' clothing and furnishings	121.79	121.28	133.76	129.56	-	3.83	3.79	4.18	4.10	-
562	Women's ready-to-wear stores	84.28	83.98	90.36	91.13	-	3.01	3.01	3.31	3.29	-
565	Family clothing stores	99.53	100.26	101.95	104.96	-	3.34	3.32	3.54	3.57	-
566	Shoe stores	98.33	98.20	111.45	104.53	-	3.45	3.47	3.83	3.72	-
57	Furniture and home furnishings stores	150.65	151.79	160.89	158.20	-	4.22	4.24	4.61	4.52	-
571	Furniture and home furnishings	154.22	155.81	165.32	163.44	-	4.32	4.34	4.71	4.63	-
58	Eating and drinking places <sup>6</sup>	77.79	77.81	81.12	81.17	-	2.86	2.85	3.12	3.11	-
52,55,59	Other retail trade	147.02	147.70	154.43	155.14	-	4.05	4.08	4.35	4.37	-
52	Building materials and farm equipment	164.22	165.85	171.00	172.28	-	4.20	4.22	4.50	4.51	-
551.2	Motor vehicle dealers	193.26	199.87	204.44	207.90	-	4.93	5.06	5.31	5.40	-
553.9	Other automotive and accessory dealers	169.26	167.23	177.77	177.84	-	4.20	4.16	4.57	4.56	-
591	Drug stores and proprietary stores	107.10	106.75	114.75	111.60	-	3.50	3.50	3.75	3.72	-
594	Book and stationery stores	123.83	124.86	135.20	131.63	-	3.81	3.83	4.06	4.05	-
598	Fuel and ice dealers	206.42	187.77	221.23	230.91	-	4.95	4.79	5.23	5.37	-
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup></b>	165.88	165.07	176.78	176.30	177.14	4.52	4.51	4.83	4.83	4.84
60	Banking	139.81	138.30	148.56	148.88	-	3.82	3.81	4.07	4.09	-
61	Credit agencies other than banks	150.35	149.63	163.02	160.76	-	4.02	3.99	4.29	4.31	-
612	Savings and loan associations	143.52	143.54	156.04	152.26	-	3.90	3.89	4.15	4.16	-
62	Security, commodity brokers and services	291.42	288.42	302.64	284.90	-	7.73	7.61	7.80	7.40	-
63	Insurance carriers	176.06	176.06	188.37	188.60	-	4.72	4.72	5.05	5.07	-
631	Life insurance	172.98	172.42	182.66	184.00	-	4.65	4.66	4.95	5.00	-
632	Accident and health insurance	171.45	171.76	187.45	186.96	-	4.50	4.52	4.92	4.92	-
633	Fire, marine, and casualty insurance	178.45	179.52	190.74	189.58	-	4.81	4.80	5.10	5.11	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
-	<b>TRANSPORTATION AND PUBLIC UTILITIES—Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	41.7	41.1	41.9	41.9	-	-	-	-	-	-
491	Electric companies and systems	41.6	41.4	42.4	42.2	-	-	-	-	-	-
492	Gas companies and systems	42.0	41.3	40.8	41.4	-	-	-	-	-	-
493	Combination companies and systems	41.3	40.4	42.4	41.7	-	-	-	-	-	-
494-7	Water, steam, and sanitary systems	42.5	41.3	41.4	41.9	-	-	-	-	-	-
-	<b>WHOLESALE AND RETAIL TRADE</b>	33.0	33.1	32.3	32.4	32.7	-	-	-	-	-
50	<b>WHOLESALE TRADE</b>	38.8	38.7	38.4	38.6	38.7	-	-	-	-	-
501	Motor vehicles and automotive equipment	39.0	39.4	38.1	38.2	-	-	-	-	-	-
502	Drugs, chemicals, and allied products	38.2	38.6	38.4	38.3	-	-	-	-	-	-
503	Dry goods and apparel	36.0	35.7	36.4	36.8	-	-	-	-	-	-
504	Groceries and related products	38.9	38.6	38.1	38.4	-	-	-	-	-	-
506	Electrical goods	39.5	38.7	39.3	39.4	-	-	-	-	-	-
507	Hardware; plumbing and heating equipment	38.6	38.9	38.6	38.2	-	-	-	-	-	-
508	Machinery, equipment, and supplies	39.9	40.1	39.7	39.6	-	-	-	-	-	-
509	Miscellaneous wholesalers	38.1	37.9	37.8	38.1	-	-	-	-	-	-
52-59	<b>RETAIL TRADE</b>	31.3	31.4	30.5	30.6	31.0	-	-	-	-	-
53	Retail general merchandise	29.4	30.0	28.9	29.1	-	-	-	-	-	-
531	Department stores	28.8	29.7	28.2	28.4	-	-	-	-	-	-
532	Mail order houses	32.0	32.6	31.9	32.3	-	-	-	-	-	-
533	Variety stores	29.1	29.1	29.8	29.0	-	-	-	-	-	-
54	Food stores	31.9	31.8	31.3	31.5	-	-	-	-	-	-
541-3	Grocery, meat, and vegetable stores	32.1	32.1	31.6	31.7	-	-	-	-	-	-
56	Apparel and accessory stores	29.1	29.2	28.9	28.9	-	-	-	-	-	-
561	Men's and boys' clothing and furnishings	31.8	32.0	32.0	31.6	-	-	-	-	-	-
562	Women's ready-to-wear stores	28.0	27.9	27.3	27.7	-	-	-	-	-	-
565	Family clothing stores	29.8	30.2	28.8	29.4	-	-	-	-	-	-
566	Shoe stores	28.5	28.3	29.1	28.1	-	-	-	-	-	-
57	Furniture and home furnishings stores	35.7	35.8	34.9	35.0	-	-	-	-	-	-
571	Furniture and home furnishings	35.7	35.9	35.1	35.3	-	-	-	-	-	-
58	Eating and drinking places <sup>5</sup>	27.2	27.3	26.0	26.1	-	-	-	-	-	-
52,55,59	Other retail trade	36.3	36.2	35.5	35.5	-	-	-	-	-	-
52	Building materials and farm equipment	39.1	39.3	38.0	38.2	-	-	-	-	-	-
551,2	Motor vehicle dealers	39.2	39.5	38.5	38.5	-	-	-	-	-	-
553,9	Other automotive and accessory dealers	40.3	40.2	38.9	39.0	-	-	-	-	-	-
591	Drug stores and proprietary stores	30.6	30.5	30.6	30.0	-	-	-	-	-	-
594	Book and stationery stores	32.5	32.6	33.3	32.5	-	-	-	-	-	-
598	Fuel and ice dealers	41.7	39.2	42.3	43.0	-	-	-	-	-	-
	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup></b>	36.7	36.6	36.6	36.5	36.6	-	-	-	-	-
60	Banking	36.6	36.3	36.5	36.4	-	-	-	-	-	-
61	Credit agencies other than banks	37.4	37.5	38.0	37.3	-	-	-	-	-	-
612	Savings and loan associations	36.8	36.9	37.6	36.6	-	-	-	-	-	-
62	Security, commodity brokers and services	37.7	37.9	38.8	38.5	-	-	-	-	-	-
63	Insurance carriers	37.3	37.3	37.3	37.2	-	-	-	-	-	-
631	Life insurance	37.2	37.0	36.9	36.8	-	-	-	-	-	-
632	Accident and health insurance	38.1	38.0	38.1	38.0	-	-	-	-	-	-
633	Fire, marine, and casualty insurance	37.1	37.4	37.4	37.1	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>
	<b>SERVICES</b> .....	\$153.97	\$153.85	\$166.50	\$166.16	\$166.66	\$4.61	\$4.62	\$5.00	\$5.02	\$5.02
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels <sup>6</sup> .....	98.25	98.25	108.63	108.02	—	3.19	3.19	3.55	3.53	—
	Personal services:										
721	Laundries and dry cleaning plants .....	119.02	120.40	127.19	128.66	—	3.43	3.44	3.73	3.74	—
722	Photographic studios .....	119.07	121.03	130.56	131.22	—	3.78	3.83	4.08	4.05	—
	Motion pictures:										
781	Motion picture filming and distributing ...	276.71	273.29	366.28	376.40	—	6.97	7.08	9.18	9.41	—
806	Hospitals .....	151.53	153.45	169.32	169.50	—	4.47	4.50	4.98	5.00	—

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

<sup>2</sup> Beginning January 1976, data relate to line haul railroads with operating revenues of \$10,000,000 or more.

<sup>3</sup> Data relate to employees in such occupations in the telephone industry as switchboard operators; service assistants; operating room instructors; and pay-station attendants. In 1975, such employees made up 30 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

<sup>4</sup> Data relate to employees in such occupations in the telephone industry as central office craft persons; installation and exchange repair craft persons; line, cable and conduit craft

persons; and laborers. In 1975, such employees made up 47 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

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

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

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

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

\*Not available.

p=preliminary.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978P	Mar. 1978P	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978P	Mar. 1978P
	<b>SERVICES</b> .....	33.4	33.3	33.3	33.1	33.2	-	-	-	-	-
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels <sup>6</sup> .....	30.8	30.8	30.6	30.6	-	-	-	-	-	
	Personal services:										
721	Laundries and dry cleaning plants .....	34.7	35.0	34.1	34.4	-	-	-	-	-	
722	Photographic studios .....	31.5	31.6	32.0	32.4	-	-	-	-	-	
	Motion pictures:										
781	Motion picture filming and distributing ...	39.7	38.6	39.9	40.0	-	-	-	-	-	
806	Hospitals .....	33.9	34.1	34.0	33.9	-	-	-	-	-	

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

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

Item	1977	1977											
	Avg.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Executive Branch</b>													
Total employment . . . . .	2,675.5	2,645.8	2,654.9	2,662.8	2,664.0	2,675.8	2,712.3	2,720.5	2,704.7	2,665.4	2,662.5	2,664.3	2,673.1
Average weekly hours . . . . .	39.5	39.4	39.5	39.3	39.2	39.2	39.3	39.7	39.7	39.4	39.8	39.4	40.0
Average overtime hours . . . . .	1.1	1.0	1.0	.9	.9	.9	1.0	1.1	1.2	1.3	1.2	1.1	1.6
Indexes (1967=100):													
Average weekly earnings . . . . .	214.6	208.9	209.2	208.7	208.7	209.2	208.9	211.1	212.7	214.9	226.9	225.9	230.5
Average hourly earnings . . . . .	214.1	208.9	208.6	209.2	209.7	210.3	209.5	209.5	211.1	214.9	224.6	225.9	227.0
<b>Department of Defense</b>													
Total employment . . . . .	917.7	918.4	917.6	918.4	917.4	920.0	932.0	931.6	922.0	909.1	907.8	909.8	907.7
Average weekly hours . . . . .	39.9	39.9	40.0	39.9	39.6	39.9	39.9	40.0	40.0	39.9	39.9	39.8	40.0
Average overtime hours . . . . .	.8	.7	.7	.7	.7	.7	.8	.7	.8	1.1	.9	.9	.8
Indexes (1967=100):													
Average weekly earnings . . . . .	208.0	202.3	204.2	203.9	204.3	204.8	203.7	203.4	204.2	208.0	217.4	220.9	220.4
Average hourly earnings . . . . .	210.1	204.4	205.7	206.0	207.9	206.8	205.7	204.9	205.7	210.1	219.6	223.7	222.1
<b>Postal service</b>													
Total employment . . . . .	654.0	650.0	649.9	652.3	650.7	652.9	655.6	657.5	656.8	655.0	649.2	650.2	668.2
Average weekly hours . . . . .	40.0	40.4	40.4	39.6	39.7	39.3	39.3	40.4	39.9	40.1	41.2	39.8	41.8
Average overtime hours . . . . .	1.6	1.9	1.4	1.2	1.2	1.0	1.1	1.5	1.4	1.7	2.0	1.5	3.5
Indexes (1967=100):													
Average weekly earnings . . . . .	245.2	240.0	238.0	233.3	234.9	235.6	235.0	241.9	248.6	251.5	259.0	253.4	271.7
Average hourly earnings . . . . .	236.6	229.3	227.4	227.4	228.4	231.4	230.8	231.1	240.5	242.1	242.7	245.7	250.9
<b>Other agencies</b>													
Total employment . . . . .	1,103.8	1,077.4	1,087.4	1,092.1	1,095.9	1,102.9	1,124.7	1,131.4	1,125.9	1,101.3	1,105.5	1,104.3	1,097.2
Average weekly hours . . . . .	38.7	38.2	38.5	38.5	38.6	38.6	38.6	39.0	39.3	38.7	38.8	38.9	38.8
Average overtime hours . . . . .	1.1	.8	.9	.9	.9	1.0	1.1	1.3	1.5	1.2	1.1	1.1	1.0
Indexes (1967=100):													
Average weekly earnings . . . . .	202.9	197.2	197.5	198.2	198.0	198.7	197.5	200.5	200.1	201.7	216.6	215.4	216.1
Average hourly earnings . . . . .	203.5	200.2	199.0	199.8	199.0	199.8	198.5	199.5	197.5	202.2	216.6	214.9	216.1

NOTE: Averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from all agencies of the executive branch of the Federal Government; the data cover both salaried workers and hourly paid wage-board employees. Since these averages relate to hours and earnings of all workers, both supervisory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers.

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

Major industry group	Average hourly earnings excluding overtime <sup>1</sup>				
	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
<b>MANUFACTURING</b>	\$5.24	\$5.27	\$5.70	\$5.69	\$5.71
<b>DURABLE GOODS</b>	5.57	5.61	6.05	6.05	6.08
Ordnance and accessories	5.88	5.92	6.41	6.42	-
Lumber and wood products	4.70	4.68	5.14	5.09	-
Furniture and fixtures	4.06	4.09	4.38	4.37	-
Stone, clay, and glass products	5.28	5.30	5.69	5.68	-
Primary metal industries	6.78	6.84	7.53	7.62	-
Fabricated metal products	5.37	5.42	5.79	5.79	-
Machinery, except electrical	5.78	5.79	6.20	6.22	-
Electrical equipment and supplies	5.02	5.04	5.45	5.45	-
Transportation equipment	6.58	6.62	7.11	7.12	-
Instruments and related products	4.95	4.96	5.28	5.30	-
Miscellaneous manufacturing industries	4.14	4.16	4.46	4.43	-
<b>NONDURABLE GOODS</b>	4.75	4.77	5.15	5.14	5.16
Food and kindred products	4.99	5.00	5.35	5.38	-
Tobacco manufactures	5.26	5.26	5.80	5.86	-
Textile mill products	3.69	3.69	4.00	3.98	-
Apparel and other textile products	3.49	3.51	3.79	3.77	-
Paper and allied products	5.42	5.44	5.88	5.92	-
Printing and publishing	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	-
Chemicals and allied products	5.95	5.97	6.47	6.48	-
Petroleum and coal products	7.36	7.40	7.90	8.04	-
Rubber and plastics products, nec	4.81	4.82	5.10	5.09	-
Leather and leather products	3.53	3.54	3.74	3.77	-

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

<sup>P</sup> = preliminary.

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



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

Industry	Gross average weekly earnings			Spendable average weekly earnings <sup>2</sup>					
				Worker with no dependents			Married worker with 3 dependents		
	Feb. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Feb. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Feb. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>
<b>TOTAL PRIVATE:</b>									
Current dollars .....	\$182.73	\$193.25	\$195.61	\$148.55	\$157.87	\$159.57	\$161.34	\$172.83	\$174.64
1967 dollars .....	103.18	103.29	103.83	83.88	84.38	84.70	91.10	92.37	92.70
<b>MINING:</b>									
Current dollars .....	292.71	290.28	294.80	228.07	224.80	227.73	244.95	245.82	249.11
1967 dollars .....	165.28	155.15	156.48	128.78	120.15	120.88	138.31	131.38	132.22
<b>CONTRACT CONSTRUCTION:</b>									
Current dollars .....	288.41	276.72	288.84	225.22	215.77	223.86	241.70	235.79	244.76
1967 dollars .....	162.85	147.90	153.31	127.17	115.32	118.82	136.48	126.02	129.92
<b>MANUFACTURING:</b>									
Current dollars .....	216.66	231.86	235.22	173.33	185.40	187.71	186.84	201.82	204.34
1967 dollars .....	122.34	123.92	124.85	97.87	99.09	99.63	105.50	107.87	108.46
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars .....	270.95	287.96	292.40	212.74	223.29	226.17	228.43	244.11	247.38
1967 dollars .....	152.99	153.91	155.20	120.12	119.34	120.05	128.98	130.47	131.31
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars .....	138.60	146.64	147.42	116.00	123.58	124.16	128.80	137.26	137.80
1967 dollars .....	78.26	78.38	78.25	65.50	66.05	65.90	72.73	73.36	73.14
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars .....	165.88	176.78	176.30	136.39	146.02	145.68	148.50	160.14	159.77
1967 dollars .....	93.66	94.48	93.58	77.01	78.04	77.32	83.85	85.59	84.80
<b>SERVICES:</b>									
Current dollars .....	153.97	166.50	166.16	127.55	138.46	138.21	139.29	152.13	151.86
1967 dollars .....	86.94	88.99	88.20	72.02	74.00	73.36	78.65	81.31	80.61
<b>CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100) .....</b>	177.1	187.1	188.4	NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is an estimate of the average change in the prices of goods and services purchased by those consumers, and is used to deflate the current dollar values in this table to the 1967 dollar values shown. A major revision in the Consumer Price Index (revised CPI-W) was introduced with data for January 1978. Data prior to January 1978 in 1967 dollars are based on the unrevised Consumer Price Index for Urban Wage Earners and Clerical Workers (unrevised CPI-W).					

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

<sup>2</sup> Spendable earnings are calculated by taking the average weekly pay for all production or nonsupervisory jobs, both full-time and part-time, and then deducting social security and Federal income taxes applicable to a single worker or to a married worker with three dependents who earned this amount (see Explanatory Notes for the establishment data in the back of this publication).  
The data for spendable earnings for the seven month period June-December 1977 are calcu-

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

p = preliminary (applicable to earnings data only).

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

(1967 = 100)

Industry division and group	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>P</sup>	Mar. 1978 <sup>P</sup>
	Hours				
<b>TOTAL</b> .....	110.5	112.1	112.5	113.3	115.8
<b>GOODS-PRODUCING</b> .....	93.9	96.6	94.9	96.7	100.1
<b>MINING</b> .....	130.7	136.3	107.3	108.6	114.0
<b>CONTRACT CONSTRUCTION</b> .....	89.4	96.8	88.3	91.9	101.0
<b>MANUFACTURING</b> .....	93.5	95.2	95.7	97.1	99.5
<b>DURABLE GOODS</b> .....	92.8	95.1	97.1	98.4	101.1
Ordnance and accessories .....	38.8	38.9	39.8	39.6	40.1
Lumber and wood products .....	98.6	99.2	99.7	102.3	104.5
Furniture and fixtures .....	100.2	103.0	107.2	113.1	114.9
Stone, clay, and glass products .....	91.5	98.0	97.3	99.3	103.2
Primary metal industries .....	84.5	87.5	88.9	90.0	89.7
Fabricated metal products .....	97.4	99.7	103.4	104.4	106.6
Machinery, except electrical .....	98.2	99.2	104.8	107.5	109.5
Electrical equipment and supplies .....	94.1	94.5	97.9	99.3	101.8
Transportation equipment .....	88.4	93.9	93.2	91.3	97.0
Instruments and related products .....	111.2	110.7	112.1	113.4	116.6
Miscellaneous manufacturing .....	91.9	92.8	85.9	88.8	92.4
<b>NONDURABLE GOODS</b> .....	94.5	95.4	93.6	95.1	97.2
Food and kindred products .....	90.3	90.8	89.3	88.9	90.5
Tobacco manufactures .....	78.2	67.9	72.2	71.2	70.2
Textile mill products .....	97.0	98.5	96.8	99.1	100.0
Apparel and other textile products .....	86.9	88.1	80.4	86.0	89.2
Paper and allied products .....	95.6	96.4	98.3	98.2	100.8
Printing and publishing .....	93.5	94.1	93.2	94.1	96.2
Chemicals and allied products .....	100.3	101.7	102.3	103.0	105.1
Petroleum and coal products .....	107.7	113.0	120.1	120.9	124.3
Rubber and plastics products, nec .....	129.3	130.1	129.7	129.8	132.3
Leather and leather products .....	70.6	71.1	68.1	69.3	71.5
<b>SERVICE-PRODUCING</b> .....	122.0	122.8	124.6	124.8	126.6
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	102.1	102.2	101.4	103.1	104.1
<b>WHOLESALE AND RETAIL TRADE</b> .....	116.1	117.2	119.0	118.1	120.4
<b>WHOLESALE TRADE</b> .....	114.7	115.0	117.6	118.0	119.4
<b>RETAIL TRADE</b> .....	116.6	118.0	119.5	118.1	120.7
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	128.8	129.3	134.1	134.2	135.2
<b>SERVICES</b> .....	137.1	137.9	140.3	141.2	143.1

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

p = preliminary.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

(1967 = 100)

Industry division and group	Feb. 1977	Mar. 1977	Jan. 1978	Feb. 1978 <sup>p</sup>	Mar. 1978 <sup>p</sup>
	Payrolls				
<b>TOTAL</b> .....	209.9	213.9	230.5	232.9	239.0
<b>GOODS-PRODUCING</b> .....	180.9	187.8	197.3	201.1	209.7
<b>MINING</b> .....	277.1	289.8	229.9	232.9	244.8
<b>CONTRACT CONSTRUCTION</b> .....	171.2	185.3	179.3	185.4	204.4
<b>MANUFACTURING</b> .....	179.6	184.5	200.6	203.9	209.7
<b>DURABLE GOODS</b> .....	178.8	185.1	204.2	207.4	213.9
Ordnance and accessories .....	73.8	74.8	82.9	83.3	84.0
Lumber and wood products .....	204.6	204.9	226.0	230.6	235.3
Furniture and fixtures .....	179.1	185.8	207.9	219.5	224.0
Stone, clay, and glass products .....	179.7	193.4	206.8	211.2	219.5
Primary metal industries .....	178.7	186.8	210.6	215.8	215.5
Fabricated metal products .....	182.3	189.1	209.6	211.7	218.7
Machinery, except electrical .....	185.4	187.9	213.3	220.6	224.4
Electrical equipment and supplies .....	175.3	176.5	198.8	202.1	206.9
Transportation equipment .....	176.8	191.1	202.7	199.0	214.5
Instruments and related products .....	198.9	198.1	214.0	218.8	224.8
Miscellaneous manufacturing .....	166.3	168.6	167.1	172.5	179.9
<b>NONDURABLE GOODS</b> .....	181.0	183.5	194.6	197.9	202.6
Food and kindred products .....	178.5	179.7	189.5	190.2	194.0
Tobacco manufactures .....	185.1	160.6	189.8	188.2	192.2
Textile mill products .....	181.0	184.2	196.3	200.6	202.4
Apparel and other textile products .....	151.8	155.0	152.1	162.3	170.1
Paper and allied products .....	189.4	192.2	212.8	214.2	220.2
Printing and publishing .....	169.1	171.3	179.8	182.1	186.9
Chemicals and allied products .....	199.8	203.4	222.0	224.9	229.0
Petroleum and coal products .....	229.7	242.7	277.4	284.5	291.7
Rubber and plastics products, nec .....	236.7	238.3	250.7	250.7	255.4
Leather and leather products .....	123.1	124.3	126.0	129.6	133.9
<b>SERVICE-PRODUCING</b> .....	234.9	236.3	259.1	260.3	264.1
<b>TRANSPORTATION AND PUBLIC   UTILITIES</b> .....	212.8	212.2	228.6	232.7	234.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	217.0	219.4	240.4	239.2	244.2
<b>WHOLESALE TRADE</b> .....	215.2	216.5	238.5	238.9	242.8
<b>RETAIL TRADE</b> .....	218.0	221.0	241.5	239.4	244.9
<b>FINANCE, INSURANCE, AND   REAL ESTATE</b> .....	225.4	225.6	250.6	251.0	253.1
<b>SERVICES</b> .....	276.4	278.1	306.5	309.4	313.8

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

p = preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED HOURS**

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

Industry	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. <sup>P</sup>	Mar. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	36.2	36.2	36.3	36.2	36.1	36.0	36.0	36.2	36.2	36.2	35.6	35.8	36.1
<b>MINING</b> .....	44.2	44.3	44.1	44.1	44.8	44.2	44.3	44.6	44.6	43.7	43.2	43.3	44.3
<b>CONTRACT CONSTRUCTION</b> .....	37.2	37.3	37.4	36.8	36.9	36.5	36.4	36.8	36.9	36.8	34.6	35.7	36.3
<b>MANUFACTURING</b> .....	40.4	40.3	40.4	40.5	40.2	40.3	40.3	40.4	40.5	40.5	39.6	40.0	40.5
<i>Overtime hours</i> .....	3.3	3.4	3.4	3.4	3.4	3.3	3.3	3.5	3.5	3.5	3.5	3.8	3.7
<b>DURABLE GOODS</b> .....	41.0	40.8	41.0	41.2	40.9	40.9	41.0	41.2	41.1	41.2	40.2	40.6	41.1
<i>Overtime hours</i> .....	3.5	3.5	3.6	3.6	3.6	3.5	3.5	3.8	3.7	3.7	3.7	4.0	3.9
Ordnance and accessories .....	40.7	41.0	41.1	40.8	40.3	40.2	40.6	40.8	40.2	41.1	40.2	39.9	39.7
Lumber and wood products .....	40.2	40.0	40.0	39.9	40.4	39.6	40.0	40.1	40.3	40.2	39.4	39.3	39.9
Furniture and fixtures .....	38.6	38.5	38.7	38.9	38.8	39.0	39.2	39.5	39.4	39.5	37.7	39.8	39.8
Stone, clay, and glass products .....	41.4	41.7	41.6	41.6	41.4	41.4	41.0	41.1	41.8	41.6	40.3	40.9	41.2
Primary metal industries .....	41.1	41.4	41.5	41.5	41.1	41.0	40.9	41.3	41.3	41.4	41.0	41.6	41.4
Fabricated metal products .....	41.0	40.8	41.0	41.3	41.0	40.9	40.9	41.1	41.1	41.5	40.3	40.7	41.2
Machinery, except electrical .....	41.5	41.4	41.6	42.0	41.8	41.8	41.8	42.0	41.9	41.9	40.9	41.7	42.2
Electrical equipment and supplies .....	40.3	40.1	40.2	40.4	40.2	40.3	40.3	40.3	40.2	40.3	39.5	39.7	40.3
Transportation equipment .....	42.6	42.0	42.5	42.8	42.0	42.3	42.3	42.7	42.5	42.2	41.1	40.6	41.9
Instruments and related products .....	40.4	40.3	40.4	40.7	40.3	40.3	40.3	40.6	40.4	40.4	39.8	40.3	41.3
Miscellaneous manufacturing, Ind. ....	39.2	39.0	39.0	39.3	38.7	38.8	39.0	39.1	39.0	38.9	38.0	38.2	38.7
<b>NONDURABLE GOODS</b> .....	39.5	39.6	39.5	39.5	39.3	39.3	39.3	39.4	39.5	39.5	38.7	39.1	39.7
<i>Overtime hours</i> .....	3.1	3.2	3.2	3.1	3.0	3.1	3.0	3.1	3.2	3.1	3.1	3.4	3.3
Food and kindred products .....	40.2	40.3	40.0	40.0	39.8	39.7	39.5	39.5	39.8	39.7	39.1	39.7	40.2
Tobacco manufactures .....	38.2	38.2	38.4	38.7	38.6	37.8	38.6	38.2	38.8	38.3	37.5	38.7	39.6
Textile mill products .....	40.7	40.5	40.5	40.3	40.1	40.2	40.3	40.5	40.7	40.6	40.0	40.3	40.4
Apparel and other textile products .....	35.6	35.3	35.6	35.8	35.3	35.5	35.3	35.6	35.7	35.8	33.9	35.2	35.9
Paper and allied products .....	42.8	43.5	42.9	43.1	42.7	42.4	42.7	42.8	42.7	42.9	42.2	42.5	43.3
Printing and publishing .....	37.7	37.8	37.6	37.7	37.8	37.7	38.0	37.9	37.9	37.9	37.4	37.5	38.0
Chemicals and allied products .....	41.8	41.8	41.7	41.9	41.7	41.8	41.7	41.6	41.7	41.7	41.6	41.7	42.1
Petroleum and coal products .....	42.9	42.7	42.6	43.1	42.8	43.0	42.8	43.2	43.3	43.9	43.6	43.6	44.1
Rubber and plastics products, nec .....	41.2	41.3	41.3	41.2	40.6	40.8	40.7	40.9	40.9	40.7	39.8	39.6	40.3
Leather and leather products .....	36.5	37.3	37.1	37.2	36.8	37.3	37.6	37.7	37.8	37.2	36.6	36.6	37.4
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.3	40.1	40.3	40.1	39.9	40.0	39.9	39.7	40.3	40.2	39.8	40.3	40.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	33.4	33.4	33.5	33.3	33.3	33.2	33.2	33.5	33.2	43.3	32.8	32.9	33.1
<b>WHOLESALE TRADE</b> .....	38.9	38.9	38.8	38.8	38.8	38.8	38.8	39.1	38.9	38.8	38.6	38.9	38.9
<b>RETAIL TRADE</b> .....	31.8	31.8	31.9	31.7	31.7	31.6	31.6	31.9	31.6	31.7	31.1	31.1	31.4
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.7	36.6	36.7	36.6	36.6	36.7	36.6	36.7	36.7	36.6	36.5	36.4	36.7
<b>SERVICES</b> .....	33.5	33.5	33.5	33.3	33.2	33.2	33.2	33.5	33.3	33.4	33.5	33.2	33.4

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

p = preliminary.

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

Industry	1978										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. <sup>P</sup>	Mar. <sup>P</sup>
<b>Average hourly earnings</b>													
<b>TOTAL PRIVATE</b> .....	\$ 5.13	\$5.17	\$ 5.20	\$ 5.22	\$ 5.27	\$ 5.28	\$ 5.32	\$ 5.38	\$ 5.41	\$ 5.42	\$5.49	\$ 5.52	\$ 5.54
<b>MINING</b> .....	6.77	6.79	6.82	6.91	6.95	6.92	7.03	7.13	7.12	6.64	6.76	6.79	6.84
<b>CONTRACT CONSTRUCTION</b> .....	7.91	7.95	7.97	8.04	8.06	8.08	8.09	8.17	8.18	8.21	8.32	8.32	8.36
<b>MANUFACTURING</b> .....	5.49	5.53	5.57	5.61	5.66	5.68	5.73	5.79	5.81	5.83	5.90	5.95	5.97
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	6.76	6.83	6.88	6.88	7.00	6.93	7.03	7.11	7.18	7.24	7.29	7.31	7.33
<b>WHOLESALE AND RETAIL TRADE</b> .....	4.20	4.23	4.24	4.26	4.30	4.31	4.33	4.37	4.39	4.43	4.51	4.52	4.55
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4.50	4.53	4.56	4.54	4.60	4.61	4.65	4.74	4.74	4.75	4.83	4.79	4.83
<b>SERVICES</b> .....	4.61	4.64	4.66	4.67	4.72	4.76	4.78	4.85	4.86	4.89	4.98	4.99	5.01
<b>Average weekly earnings</b>													
<b>TOTAL PRIVATE:</b>													
Current dollars .....	185.71	187.15	188.76	188.96	190.25	190.08	191.52	194.76	195.84	196.20	195.44	197.62	199.99
1967 dollars <sup>2</sup> .....	104.10	104.03	104.34	103.94	104.30	103.81	104.20	105.62	105.75	105.48	104.29	104.73	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) <sup>2,3</sup> .....	91.69	91.53	91.69	94.98	95.22	94.78	95.04	96.11	96.16	95.89	93.12	93.35	-

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

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

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

p=preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED**

**C-9. Indexes of aggregate weekly hours of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted**

[1967 = 100]

Industry division and group	1977										1978		
	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb. <sup>p</sup>	Mar. <sup>p</sup>
<b>TOTAL</b> .....	115.0	115.4	115.9	115.8	115.8	115.6	115.9	116.8	117.2	117.5	116.1	117.0	118.8
<b>GOODS-PRODUCING</b> .....	100.1	100.8	101.4	101.8	101.4	100.6	100.9	101.7	102.3	102.1	99.5	101.4	103.6
<b>MINING</b> .....	140.6	141.6	140.6	142.3	139.9	134.7	142.5	143.9	144.8	113.3	110.7	111.8	117.7
<b>CONTRACT CONSTRUCTION</b> .....	108.7	111.7	112.4	111.8	112.8	110.8	110.4	112.3	114.0	113.5	104.7	108.8	113.3
<b>MANUFACTURING</b> .....	97.2	97.5	98.1	98.7	98.0	97.6	97.8	98.4	98.8	99.7	98.2	99.8	101.5
<b>DURABLE GOODS</b> .....	96.8	96.9	97.8	98.7	98.3	98.1	98.4	99.3	99.5	100.8	99.3	101.0	102.8
Ordnance and accessories .....	39.2	40.1	40.7	41.0	40.5	39.3	39.1	38.2	38.2	40.2	39.8	40.1	39.9
Lumber and wood products .....	103.6	103.5	104.1	104.0	105.3	104.0	106.0	106.8	109.5	109.8	107.6	106.8	109.2
Furniture and fixtures .....	105.3	106.1	107.1	107.9	108.4	107.2	108.3	110.6	111.7	113.8	109.3	116.5	117.5
Stone, clay, and glass products .....	101.7	103.9	104.2	105.4	104.9	104.1	103.3	103.2	106.7	107.0	104.3	105.6	107.2
Primary metal industries .....	88.6	89.7	90.7	90.9	89.0	88.2	89.0	89.7	89.5	89.7	89.5	91.4	90.6
Fabricated metal products .....	101.7	101.3	102.8	104.2	103.7	103.3	103.1	105.0	105.7	107.7	105.3	107.6	108.6
Machinery, except electrical .....	98.7	98.8	100.2	101.6	103.2	103.5	103.6	105.5	104.9	106.0	104.0	107.1	109.0
Electrical equipment and supplies .....	96.1	96.3	97.2	97.9	98.3	98.3	97.8	98.8	99.4	100.4	98.9	100.7	103.5
Transportation equipment .....	96.4	94.7	95.3	96.5	94.8	95.4	96.5	96.2	94.5	96.7	96.5	95.9	99.5
Instruments and related products .....	111.6	111.7	112.3	113.2	111.7	111.3	112.4	113.2	113.4	114.4	113.4	114.8	117.7
Miscellaneous manufacturing, Ind. ....	95.5	95.0	94.7	94.6	91.4	91.3	90.3	91.1	91.5	93.9	92.3	93.3	94.9
<b>NONDURABLE GOODS</b> .....	97.7	98.5	98.5	98.7	97.7	96.9	96.9	97.1	97.8	98.1	96.5	98.0	99.5
Food and kindred products .....	97.8	98.5	97.3	97.3	95.9	94.5	94.1	92.8	94.2	94.6	94.4	96.1	97.5
Tobacco manufactures .....	75.1	80.5	78.2	80.2	77.2	71.7	73.2	72.4	72.2	74.0	72.4	74.8	77.9
Textile mill products .....	99.4	99.6	100.2	99.7	99.9	98.9	99.4	100.2	101.4	100.8	99.3	100.4	100.8
Apparel and other textile products .....	88.1	87.7	88.6	89.8	87.6	87.8	87.2	87.8	88.6	89.0	84.2	87.1	89.2
Paper and allied products .....	98.6	100.8	100.4	101.1	100.3	99.4	99.7	100.2	99.6	100.8	99.3	100.8	102.9
Printing and publishing .....	94.5	95.2	95.1	95.3	95.6	95.1	95.7	95.7	95.9	95.9	94.6	95.3	96.6
Chemicals and allied products .....	102.2	102.9	103.3	103.8	103.7	103.4	103.0	102.6	103.0	103.5	103.8	104.5	105.7
Petroleum and coal products .....	118.4	119.6	119.3	121.6	119.9	120.4	120.8	122.8	124.8	125.7	126.6	128.4	129.8
Rubber and plastics products, nec .....	132.9	134.8	135.3	133.9	132.5	129.7	129.3	130.5	132.5	133.8	131.3	132.6	135.7
Leather and leather products .....	71.8	73.4	73.3	72.9	69.9	71.8	72.7	73.8	73.7	71.9	70.7	70.7	72.3
<b>SERVICE-PRODUCING</b> .....	125.3	125.5	125.9	125.6	125.8	126.1	126.4	127.2	127.5	128.2	127.6	127.8	129.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	104.1	103.8	104.6	104.1	103.1	103.5	103.9	102.9	105.1	105.6	103.5	105.2	106.0
<b>WHOLESALE AND RETAIL TRADE</b> .....	120.7	121.0	121.4	121.2	121.6	121.6	121.8	122.7	122.4	123.2	122.3	122.5	123.9
<b>WHOLESALE TRADE</b> .....	116.9	117.3	117.3	117.3	117.5	117.5	117.8	118.7	118.8	118.9	118.9	120.5	121.3
<b>RETAIL TRADE</b> .....	122.1	122.4	123.0	122.7	123.1	123.1	123.3	124.2	123.7	124.8	123.5	123.2	124.9
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	131.0	131.0	131.6	131.7	132.3	132.7	133.2	134.2	134.9	134.9	135.4	135.5	137.0
<b>SERVICES</b> .....	139.8	140.1	140.3	139.6	140.1	140.6	140.9	142.7	142.6	143.4	143.8	143.3	145.0

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

p = preliminary.

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

Industry division	Millions of hours (Annual rate) <sup>2</sup>			Percent change		
	JANUARY 1978	FEBRUARY 1978 <sup>p</sup>	MARCH 1978 <sup>p</sup>	March 1977 to March 1978	Jan. 1978 to Feb. 1978	Feb. 1978 to March 1978
<b>TOTAL</b> .....	157,639	158,982	160,798	3.5	0.9	1.1
<b>PRIVATE SECTOR</b> .....	127,468	128,503	130,284	3.6	0.8	1.4
<b>MINING</b> .....	1,584	1,601	1,675	-13.3	1.1	4.6
<b>CONTRACT CONSTRUCTION</b> .....	7,046	7,327	7,594	4.4	4.0	3.6
<b>MANUFACTURING</b> .....	41,075	41,581	42,146	4.1	1.2	1.4
<b>DURABLE GOODS</b> .....	24,639	24,988	25,321	5.4	1.4	1.3
<b>NONDURABLE GOODS</b> .....	16,436	16,593	16,825	2.1	1.0	1.4
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	9,578	9,759	9,834	2.8	1.9	0.8
<b>WHOLESALE AND RETAIL TRADE</b> .....	32,061	32,170	32,546	3.1	0.3	1.2
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	8,788	8,800	8,910	4.8	0.1	1.3
<b>SERVICES</b> .....	27,337	27,265	27,579	4.5	-0.3	1.2
<b>GOVERNMENT</b> .....	30,171	30,478	30,514	3.0	1.0	0.1

<sup>1</sup> Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods for Survey Studies*, BLS Bulletin 1910—Chapter 30, Productivity Measures: Private Economy and Major Sectors.

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

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

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

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1975			1976				1977			
	1976	1977	II	III	IV	I	II	III	IV	I	II	III	IV
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons . . . .	116.5	119.4	111.7	113.8	113.3	115.4	116.4	117.2	117.2	118.9	118.6	120.2	120.3
Output . . . . .	126.9	134.6	117.2	120.6	121.8	124.9	126.7	127.7	128.4	131.3	134.0	135.7	137.3
Hours . . . . .	108.9	112.7	104.9	106.0	107.5	108.2	108.9	109.0	109.6	110.4	113.0	112.9	114.1
Compensation per hour . . . . .	196.5	213.9	179.2	181.1	184.6	190.5	194.5	198.6	202.7	208.4	211.7	216.0	219.7
Real compensation per hour . . . . .	115.3	117.9	112.3	111.2	111.6	113.9	114.9	115.6	116.7	117.7	117.0	117.9	118.7
Unit labor costs . . . . .	168.7	179.1	160.4	159.1	163.0	165.1	167.1	169.4	173.0	175.2	178.5	179.7	182.5
Unit nonlabor payments . . . . .	159.9	164.7	149.1	159.8	159.0	158.7	160.5	160.8	159.5	160.4	163.0	167.0	168.4
Implicit price deflator . . . . .	165.6	174.2	156.5	159.4	161.6	162.9	164.8	166.5	168.3	170.1	173.1	175.4	177.7
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons . . . .	114.3	116.8	109.6	112.0	111.0	112.9	114.5	115.2	114.6	116.1	116.3	117.4	117.5
Output . . . . .	127.4	134.9	117.1	120.6	121.8	125.2	127.2	128.3	128.7	131.6	134.5	136.0	137.5
Hours . . . . .	111.4	115.5	106.8	107.7	109.7	111.0	111.2	111.4	112.3	113.4	115.6	115.9	117.0
Compensation per hour . . . . .	193.1	210.0	176.3	179.1	181.9	186.9	191.3	195.2	198.7	204.3	208.1	211.9	215.6
Real compensation per hour . . . . .	113.3	115.7	110.5	110.0	110.0	111.7	113.1	113.7	114.4	115.3	115.0	115.6	116.5
Unit labor costs . . . . .	168.9	179.8	160.9	160.0	163.9	165.6	167.1	169.5	173.3	176.0	178.9	180.5	183.5
Unit nonlabor payments . . . . .	157.4	162.7	145.4	154.4	153.6	155.3	156.8	159.2	158.1	157.2	160.7	166.3	166.3
Implicit price deflator . . . . .	165.0	174.0	155.6	158.1	160.3	162.1	163.6	166.0	168.1	169.6	172.7	175.6	177.6
<b>MANUFACTURING:</b>													
Output per hour of all persons . . . .	124.2	126.9	114.1	120.5	121.2	122.1	124.3	125.5	125.0	125.0	126.2	127.8	127.5
Output . . . . .	120.0	127.1	103.8	111.2	114.3	117.8	119.9	121.1	121.2	123.0	126.5	128.3	129.4
Hours . . . . .	96.6	100.1	91.0	92.3	94.3	96.4	96.5	96.5	97.0	98.4	100.3	100.4	101.5
Compensation per hour . . . . .	194.8	211.9	178.4	180.8	183.5	189.0	193.7	196.7	200.0	206.1	210.1	213.6	217.7
Real compensation per hour . . . . .	114.3	116.8	111.8	111.0	110.9	113.0	114.5	114.5	115.2	116.4	116.2	116.6	117.6
Unit labor costs . . . . .	156.9	167.0	156.4	150.0	151.5	154.8	155.9	156.7	160.0	164.9	166.5	167.2	170.8
<b>DURABLE GOODS</b>													
Output per hour of all persons . . . .	120.3	122.2	110.0	116.8	116.8	118.0	120.7	121.9	120.8	120.3	122.1	123.2	122.7
Output . . . . .	114.9	122.3	99.1	105.6	107.7	111.7	114.9	116.8	116.2	117.6	121.8	124.0	125.2
Hours . . . . .	95.5	100.0	90.0	90.4	92.2	94.6	95.2	95.8	96.2	97.7	99.8	100.6	102.1
Compensation per hour . . . . .	197.0	213.8	179.7	182.9	185.8	191.6	196.4	198.8	201.1	207.5	212.3	215.3	219.6
Real compensation per hour . . . . .	115.5	117.8	112.6	112.3	112.3	114.6	116.1	115.8	115.8	117.2	117.4	117.5	118.6
Unit labor costs . . . . .	163.7	174.9	163.4	156.6	159.1	162.4	162.8	163.1	166.6	172.5	174.9	174.8	179.0
<b>NONDURABLE GOODS</b>													
Output per hour of all persons . . . .	130.5	134.5	120.7	126.6	128.2	128.8	130.1	131.3	131.8	132.6	132.8	135.2	135.4
Output . . . . .	128.3	134.9	111.4	120.3	124.9	127.6	128.1	128.1	129.4	131.7	134.2	135.3	136.3
Hours . . . . .	98.3	100.3	92.3	95.0	97.4	99.1	98.4	97.5	98.2	99.3	101.1	100.0	100.7
Compensation per hour . . . . .	191.7	208.8	176.6	178.3	180.8	185.5	189.9	193.4	198.4	204.0	206.6	210.6	214.2
Real compensation per hour . . . . .	112.5	115.0	110.7	109.5	109.3	110.9	112.2	112.6	114.2	115.2	114.2	115.0	115.7
Unit labor costs . . . . .	147.0	155.3	146.4	140.8	141.0	144.0	145.9	147.3	150.6	153.9	155.6	155.7	158.2
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour . . . .	117.2	119.8	112.8	115.4	114.8	116.2	117.5	118.0	117.2	118.9	119.4	120.7	N.A.
Output . . . . .	133.9	141.8	122.7	126.9	128.2	131.8	134.0	135.0	135.0	138.0	141.4	143.1	N.A.
Hours . . . . .	114.3	118.3	108.7	110.0	111.7	113.4	114.4	114.4	115.2	116.1	118.4	118.6	N.A.
Compensation per hour . . . . .	194.9	212.2	178.1	180.8	183.8	189.1	193.2	196.9	200.6	206.7	210.5	214.2	N.A.
Real compensation per hour . . . . .	114.3	116.9	111.6	111.0	111.1	113.0	114.2	114.7	115.5	116.7	116.4	116.9	N.A.
Total unit costs . . . . .	172.1	181.9	165.5	164.4	167.6	168.8	170.3	172.5	176.8	179.0	180.6	182.3	N.A.
Unit labor costs . . . . .	166.3	177.1	157.9	156.6	160.2	162.7	164.5	166.8	171.2	173.9	176.2	177.4	N.A.
Unit nonlabor costs . . . . .	190.1	196.9	189.3	188.5	190.6	187.7	188.3	190.1	194.1	195.0	194.3	197.5	N.A.
Unit profits . . . . .	113.2	114.8	87.8	111.2	107.8	113.1	115.0	117.7	107.0	103.7	115.5	123.1	N.A.
Implicit price deflator . . . . .	163.4	172.0	154.0	156.5	158.7	160.5	162.1	164.3	166.4	167.8	170.9	173.5	N.A.

p=preliminary.  
r=revised.

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	II 1976	III 1976	IV 1976	I 1977	II 1977	III 1977	III 1975	IV 1975	I 1976	II 1976	III 1976	IV 1976
	to III 1976	to IV 1976	to I 1977	to II 1977	to III 1977	to IV 1977	to III 1976	to IV 1976	to I 1977	to II 1977	to III 1977	to IV 1977
<b>PRIVATE BUSINESS SECTOR:</b>												
Output per hour of all persons	2.8	-0.1	6.1	-1.0	5.4	0.5	3.0	3.5	3.0	1.9	2.5	2.7
Output	3.1	2.1	9.6	8.5	5.2	4.6	5.9	5.4	5.1	5.8	6.3	6.9
Hours	0.3	2.2	3.3	9.5	-0.2	4.1	2.8	1.9	2.0	3.8	3.6	4.1
Compensation per hour	8.7	8.5	11.8	6.5	8.5	6.9	9.7	9.8	9.4	8.9	8.8	8.4
Real compensation per hour	2.4	3.7	3.4	-2.1	3.0	2.5	4.0	4.6	3.3	1.8	2.0	1.7
Unit labor costs	5.8	8.6	5.4	7.6	2.9	6.4	6.5	6.1	6.2	6.8	6.1	5.5
Unit nonlabor payments	0.9	-3.2	2.3	6.6	10.2	3.5	0.6	0.3	1.1	1.6	3.8	5.6
Implicit price deflator	4.1	4.6	4.4	7.2	5.2	5.4	4.5	4.1	4.5	5.1	5.3	5.6
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons	2.6	-1.9	5.1	0.8	3.8	0.5	2.9	3.2	2.8	1.6	1.9	2.5r
Output	3.2	1.3	9.5	8.8	4.8	4.4	6.4	5.6	5.1	5.7	6.1	6.9
Hours	0.6	3.3	4.2	7.9	0.9	3.9	3.4	2.3	2.2	4.0	4.1	4.2
Compensation per hour	8.5	7.3	11.7	7.7	7.5	7.3	9.0	9.2	9.3	8.8	8.5	8.5
Real compensation per hour	2.2	2.6	3.3	-1.0	2.1	2.9	3.3	4.0	3.2	1.8	1.7	1.8
Unit labor costs	5.7	9.4	6.3	6.8	3.5	6.8	5.9	5.8	6.3	7.1	6.5	5.9
Unit nonlabor payments	6.5	-2.7	-2.3	9.0	14.8	0.0	3.1	3.0	1.3	2.5	4.4	5.2
Implicit price deflator	6.0	5.3	3.5	7.5	7.0	4.6	5.0	4.9	4.6	5.6	5.8	5.6
<b>MANUFACTURING:</b>												
Output per hour of all persons	3.9	-1.6	0.1	3.8	5.2	-0.9	4.1	3.1	2.3	1.5	1.8	2.0
Output	3.9	0.5	5.8	12.2	5.6	3.7	8.9	6.1	4.4	5.5	5.9	6.8
Hours	-0.0	2.1	5.7	8.1	0.4	4.5	4.6	2.9	2.0	3.9	4.0	4.6
Compensation per hour	6.2	6.9	12.8	8.1	6.9	7.9	8.8	9.0	9.0	8.4	8.6	8.9
Real compensation per hour	0.1	2.2	4.3	-0.7	1.5	3.5	3.1	3.8	3.0	1.5	1.8	2.1
Unit labor costs	2.2	8.7	12.7	4.1	1.6	8.8	4.5	5.6	6.5	6.8	6.7	6.7
<b>DURABLE GOODS</b>												
Output per hour of all persons	4.0	-3.6	-1.5	6.1	3.5	-1.6	4.4	3.4	1.9	1.2	1.1	1.6
Output	6.7	-2.0	4.8	15.4	7.2	4.1	10.6	7.8	5.2	6.0	6.2	7.8
Hours	2.6	1.6	6.5	8.7	3.5	5.8	6.0	4.3	3.3	4.8	5.0	6.1
Compensation per hour	4.9	4.8	13.2	9.6	5.7	8.2	8.7	8.2	8.3	8.1	8.3	9.2
Real compensation per hour	-1.2	0.2	4.7	0.7	0.5	3.8	3.1	3.1	2.3	1.1	1.5	2.4
Unit labor costs	0.8	8.7	15.0	3.3	2.1	10.0	4.2	4.7	6.2	6.8	7.2	7.5
<b>NONDURABLE GOODS</b>												
Output per hour of all persons	3.7	1.3	2.5	0.5	7.7	0.4	3.7	2.8	2.9	2.0	3.0	2.7
Output	-0.1	4.3	7.2	7.7	3.3	3.0	6.5	3.6	3.2	4.7	5.6	5.3
Hours	-3.7	2.9	4.6	7.2	-4.1	2.6	2.7	0.8	0.3	2.7	2.5	2.5
Compensation per hour	7.8	10.7	11.8	5.3	7.9	7.0	8.5	9.7	10.0	8.8	8.9	8.0
Real compensation per hour	1.5	5.8	3.4	-3.2	2.5	2.6	2.9	4.6	3.9	1.8	2.1	1.3
Unit labor costs	3.9	9.2	9.0	4.7	0.2	6.6	4.6	6.8	6.8	6.7	5.7	5.1
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour	2.0	-2.9	6.0	1.9	4.4	N.A.	2.3	2.1	2.3	1.7	2.3	N.A.
Output	2.9	-0.1	9.4	10.1	5.0	N.A.	6.3	5.3	4.7	5.5	6.1	N.A.
Hours	1.0	2.9	3.3	8.1	0.6	N.A.	4.0	3.1	2.4	3.8	3.7	N.A.
Compensation per hour	7.9	7.7	12.8	7.5	7.2	N.A.	8.9	9.1	9.3	9.0	8.8	N.A.
Real compensation per hour	1.7	2.9	4.3	-1.2	1.9	N.A.	3.3	4.0	3.2	1.9	2.0	N.A.
Total unit costs	5.3	10.3	5.2	3.6	3.7	N.A.	4.9	5.5	6.1	6.1	5.7	N.A.
Unit labor costs	5.9	10.9	6.4	5.5	2.7	N.A.	6.5	6.9	6.9	7.1	6.3	N.A.
Unit nonlabor costs	3.8	8.9	1.7	-1.3	6.7	N.A.	0.8	1.9	3.9	3.2	3.9	N.A.
Unit profits	9.5	-31.7	-11.6	53.5	29.1	N.A.	5.8	-0.7	-8.3	0.4	4.6	N.A.
Implicit price deflator	5.7	5.1	3.5	7.6	6.1	N.A.	5.0	4.9	4.6	5.5	5.6	N.A.

p=preliminary.  
r=revised.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P
<b>ALABAMA</b> .....	\$188.60	\$201.63	\$213.83	40.3	39.0	41.2	\$4.68	\$5.17	\$5.19
Birmingham .....	216.26	231.57	250.30	39.9	37.9	41.1	5.42	6.11	6.09
Mobile .....	232.13	260.00	265.85	41.6	41.6	42.4	5.58	6.25	6.27
<b>ALASKA</b> .....	354.28	457.55	390.49	43.1	41.9	36.7	8.22	10.92	10.64
<b>ARIZONA</b> .....	218.65	231.87	230.69	39.9	39.3	39.1	5.48	5.90	5.90
Phoenix .....	216.14	229.32	230.30	40.1	39.2	39.1	5.39	5.85	5.89
Tucson .....	218.18	220.38	221.36	39.1	38.8	38.7	5.58	5.68	5.72
<b>ARKANSAS</b> .....	165.13	158.59	181.09	39.6	35.8	39.8	4.17	4.43	4.55
Fayetteville-Springdale .....	152.08	159.51	160.16	39.5	39.0	38.5	3.85	4.09	4.16
Fort Smith .....	167.27	162.02	184.60	38.9	34.4	38.7	4.30	4.71	4.77
Little Rock-North Little Rock .....	194.81	178.74	206.84	40.5	38.1	39.7	4.81	5.40	5.21
Pine Bluff .....	202.03	215.80	231.54	41.4	37.4	41.2	4.88	5.77	5.62
<b>CALIFORNIA</b> .....	230.66	246.54	245.74	39.7	39.7	39.7	5.81	6.21	6.19
Anheim-Santa Ana-Garden Grove .....	217.35	230.11	231.15	40.4	40.3	40.2	5.38	5.71	5.75
Bakersfield .....	247.02	259.26	258.84	40.1	40.7	39.7	6.16	6.37	6.52
Fresno .....	207.28	221.57	222.15	38.6	38.4	38.5	5.37	5.77	5.77
Los Angeles-Long Beach .....	216.26	232.58	230.98	39.9	40.1	40.1	5.42	5.80	5.76
Modesto .....	225.55	247.60	244.29	38.1	40.0	38.9	5.92	6.19	6.28
Oxnard-Simi Valley-Ventura .....	202.07	208.67	209.17	39.7	38.5	38.1	5.09	5.42	5.49
Riverside-San Bernardino-Ontario .....	234.62	251.54	251.62	39.3	39.8	39.5	5.97	6.32	6.37
Sacramento .....	244.72	262.19	266.17	38.6	38.9	39.2	6.34	6.74	6.79
Salinas-Seaside-Monterey .....	226.18	246.51	237.71	38.4	38.1	37.2	5.89	6.47	6.39
San Diego .....	223.11	231.77	228.92	38.6	38.5	37.9	5.78	6.02	6.04
San Francisco-Oakland .....	277.68	304.00	298.29	39.0	40.0	39.3	7.12	7.60	7.59
San Jose .....	255.84	264.14	265.86	40.1	39.9	39.8	6.38	6.62	6.68
Santa Barbara-Santa Maria-Lompoc .....	211.60	223.74	225.37	40.0	39.6	39.4	5.29	5.65	5.72
Santa Rosa .....	220.23	218.59	219.70	38.3	36.8	36.8	5.75	5.94	5.97
Stockton .....	263.46	277.29	277.50	40.1	39.5	39.7	6.57	7.02	6.99
Vallejo-Fairfield-Napa .....	229.82	249.17	250.04	37.8	38.1	38.0	6.08	6.54	6.58
<b>COLORADO</b> <sup>2</sup> .....	222.22	240.98	239.60	39.4	39.7	39.8	5.64	6.07	6.02
Denver-Boulder ? .....	222.26	239.51	236.19	39.2	39.2	39.3	5.67	6.11	6.01
<b>CONNECTICUT</b> .....	222.76	239.04	(*)	41.1	41.5	(*)	5.42	5.76	(*)
Bridgeport .....	232.48	243.02	237.58	42.5	41.9	40.2	5.47	5.80	5.91
Hartford .....	254.40	261.67	248.71	42.9	41.8	38.5	5.93	6.26	6.46
New Britain .....	232.10	249.40	219.48	42.2	42.2	37.2	5.50	5.91	5.90
New Haven-West Haven .....	222.50	235.13	213.30	40.9	40.4	36.4	5.44	5.86	5.86
Stamford .....	227.34	237.80	229.10	42.1	41.0	39.5	5.40	5.82	5.80
Waterbury .....	190.44	200.33	183.50	41.4	40.8	36.7	4.60	4.91	5.00
<b>DELAWARE</b> .....	212.46	255.60	(*)	38.7	40.0	(*)	5.49	6.39	(*)
Wilmington .....	249.01	281.24	(*)	39.4	39.5	(*)	6.32	7.12	(*)
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA .....	206.42	211.75	(*)	37.6	38.5	(*)	5.49	5.50	(*)
<b>FLORIDA</b> .....	185.36	198.70	199.59	41.1	40.8	40.9	4.51	4.87	4.88
Fort Lauderdale-Hollywood .....	183.08	190.24	187.98	41.8	41.0	40.6	4.38	4.64	4.63
Jacksonville .....	219.34	242.02	244.18	41.7	41.8	42.1	5.26	5.79	5.80
Miami .....	160.39	168.35	168.82	39.7	39.8	40.1	4.04	4.23	4.21
Orlando .....	204.53	215.69	216.91	42.7	41.4	42.2	4.79	5.21	5.14
Pensacola .....	226.32	247.70	269.25	41.3	41.7	44.8	5.48	5.94	6.01
Tampa-St. Petersburg .....	195.77	198.30	194.44	40.7	39.9	38.2	4.81	4.97	5.09
West Palm Beach-Boca Raton .....	235.04	243.09	245.08	44.6	43.8	43.3	5.27	5.55	5.66
<b>GEORGIA</b> <sup>1</sup> .....	173.96	186.05	188.81	39.9	38.6	39.5	4.36	4.82	4.78
Atlanta .....	210.65	213.38	213.10	39.3	37.9	39.1	5.36	5.63	5.45
Savannah .....	221.08	253.38	257.14	41.4	42.3	43.0	5.34	5.99	5.98
<b>HAWAII</b> .....	212.98	224.10	228.14	38.1	37.6	38.8	5.59	5.96	5.88
Honolulu .....	206.09	219.23	224.79	37.2	36.6	38.1	5.54	5.99	5.90
<b>IDAHO</b> .....	211.80	234.62	(*)	38.3	37.6	(*)	5.53	6.24	(*)

See footnotes at end of table.



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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P
<b>ILLINOIS</b> .....	\$244.97	\$261.12	\$264.65	40.4	40.0	40.3	\$6.06	\$6.53	\$6.57
Bloomington—Normal .....	191.24	204.63	206.88	38.6	38.1	37.3	4.96	5.38	5.55
Champaign—Urbana—Rantoul .....	255.86	249.73	259.28	41.8	38.7	39.8	6.13	6.45	6.51
Chicago SMSA .....	249.96	261.09	264.82	41.3	40.8	41.2	6.06	6.39	6.43
Davenport—Rock Island—Moline .....	263.43	270.18	265.96	40.5	38.6	37.9	6.50	6.99	7.01
Decatur .....	253.09	294.00	301.35	39.1	42.4	43.6	6.48	6.93	6.91
Peoria .....	283.88	289.32	294.38	38.6	36.3	36.7	7.35	7.97	8.02
Rockford .....	244.73	275.51	290.94	41.3	42.7	43.2	5.93	6.48	6.73
Springfield .....	278.43	301.88	298.57	42.4	42.7	42.7	6.57	7.06	7.00
<b>INDIANA</b> .....	258.04	281.76	285.10	40.7	40.6	41.2	6.34	6.94	6.92
Gary—Hammond—East Chicago .....	320.78	377.10	(*)	39.7	41.9	(*)	8.08	9.00	(*)
Indianapolis .....	275.98	281.12	(*)	41.5	41.1	(*)	6.65	6.84	(*)
<b>IOWA</b> <sup>2</sup> .....	252.90	269.56	(*)	40.4	39.7	(*)	6.26	6.79	(*)
Cedar Rapids .....	248.65	267.90	(*)	40.3	40.9	(*)	6.17	6.55	(*)
Des Moines <sup>2</sup> .....	258.52	273.94	(*)	38.7	38.1	(*)	6.68	7.19	(*)
Dubuque <sup>2</sup> .....	319.84	330.22	(*)	40.9	39.5	(*)	7.82	8.36	(*)
Sioux City <sup>2</sup> .....	228.74	213.60	(*)	40.2	35.6	(*)	5.69	6.00	(*)
Waterloo—Cedar Falls <sup>2</sup> .....	329.45	337.81	(*)	42.4	40.7	(*)	7.77	8.30	(*)
<b>KANSAS</b> .....	210.29	225.20	222.04	40.9	40.0	39.3	5.14	5.63	5.65
Topeka .....	234.26	229.36	228.44	43.0	38.1	38.2	5.45	6.02	5.98
Wichita .....	228.37	239.40	237.60	41.3	40.1	39.6	5.53	5.97	6.00
<b>KENTUCKY</b> .....	215.87	218.16	239.57	40.2	36.0	40.4	5.37	6.06	5.93
Louisville .....	245.86	255.00	276.62	39.4	37.5	40.8	6.24	6.80	6.78
<b>LOUISIANA</b> <sup>1</sup> .....	229.07	252.53	253.78	41.2	40.6	40.8	5.56	6.22	6.22
Baton Rouge .....	290.36	319.60	315.78	42.7	42.5	42.5	6.80	7.52	7.43
New Orleans .....	232.23	238.00	241.38	40.6	39.6	39.7	5.72	6.01	6.08
Shreveport .....	202.29	219.75	225.50	41.2	40.1	41.0	4.91	5.48	5.50
<b>MAINE</b> .....	174.84	187.23	186.03	40.1	39.5	39.0	4.36	4.74	4.77
Lewiston—Auburn .....	143.23	148.74	151.13	38.4	37.0	37.5	3.73	4.02	4.03
Portland .....	181.04	193.12	189.92	40.5	39.9	39.9	4.47	4.84	4.76
<b>MARYLAND</b> .....	229.31	242.30	240.41	39.4	38.4	38.1	5.82	6.31	6.31
Baltimore .....	240.58	255.42	252.98	39.7	38.7	38.1	6.06	6.60	6.64
<b>MASSACHUSETTS</b> .....	201.30	215.47	(*)	40.1	40.2	(*)	5.02	5.36	(*)
Boston .....	220.50	234.40	(*)	40.1	40.0	(*)	5.50	5.86	(*)
Brockton .....	157.32	166.50	(*)	38.0	37.5	(*)	4.14	4.44	(*)
Fall River .....	140.89	148.97	(*)	35.4	35.3	(*)	3.98	4.22	(*)
Lawrence—Haverhill .....	196.80	216.68	(*)	40.0	40.2	(*)	4.92	5.39	(*)
Lowell .....	174.44	184.47	(*)	39.2	39.5	(*)	4.45	4.67	(*)
New Bedford .....	166.66	179.36	(*)	38.4	38.0	(*)	4.34	4.72	(*)
Springfield—Chicopee—Holyoke .....	211.84	221.53	(*)	41.7	41.1	(*)	5.08	5.39	(*)
Worcester .....	201.89	222.60	(*)	39.9	40.4	(*)	5.06	5.51	(*)
<b>MICHIGAN</b> .....	302.02	326.92	325.37	42.0	41.8	42.0	7.19	7.82	7.75
Ann Arbor .....	327.33	369.79	368.40	42.4	43.5	43.5	7.72	8.50	8.47
Battle Creek .....	300.42	322.69	320.82	42.6	41.6	41.8	7.05	7.76	7.68
Bay City .....	318.38	343.25	306.05	47.0	46.7	42.0	6.77	7.35	7.29
Detroit .....	328.57	349.90	349.49	42.5	41.6	41.7	7.73	8.41	8.38
Flint .....	327.60	378.96	377.90	42.0	44.9	44.6	7.80	8.44	8.47
Grand Rapids .....	238.71	261.99	260.60	40.7	40.7	40.7	5.87	6.44	6.40
Jackson .....	262.63	282.80	288.96	41.7	41.6	42.5	6.30	6.80	6.80
Kalamazoo—Portage .....	262.13	275.93	280.18	41.3	39.6	40.6	6.35	6.97	6.90
Lansing—East Lansing .....	322.23	329.55	316.29	43.2	41.5	39.0	7.46	7.94	8.11
Muskegon—Norton Shores—Muskegon Heights .....	257.95	290.32	288.07	41.8	42.5	42.5	6.17	6.83	6.78
Saginaw .....	348.83	390.06	391.25	43.5	44.3	44.0	8.02	8.81	8.89
<b>MINNESOTA</b> .....	232.18	249.94	251.20	40.1	39.8	40.0	5.79	6.28	6.28
Duluth—Superior .....	209.47	235.42	234.82	39.3	39.5	39.4	5.33	5.96	5.96
Minneapolis—St. Paul .....	251.10	268.00	269.58	40.5	40.3	40.6	6.20	6.65	6.64
<b>MISSISSIPPI</b> .....	161.99	165.94	178.80	39.8	37.8	40.0	4.07	4.39	4.47
Jackson .....	169.24	189.85	195.64	40.2	39.8	41.1	4.21	4.77	4.76

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P
<b>MISSOURI</b> .....	\$217.65	\$233.22	\$235.81	39.5	39.0	39.5	\$5.51	\$5.98	\$5.97
Kansas City .....	243.60	268.27	255.36	40.0	40.1	38.4	6.09	6.69	6.65
St. Joseph .....	203.60	212.74	208.48	40.0	38.4	37.7	5.09	5.54	5.53
St. Louis .....	254.47	269.68	277.44	40.2	39.6	40.8	6.33	6.81	6.80
Springfield .....	178.60	191.38	198.29	37.6	38.2	39.5	4.75	5.01	5.02
<b>MONTANA</b> .....	247.25	322.77	323.95	40.6	43.5	43.6	6.09	7.42	7.43
<b>NEBRASKA</b> .....	214.24	231.01	221.76	40.7	40.6	38.5	5.26	5.69	5.76
Lincoln .....	201.68	222.51	213.81	38.4	38.9	36.8	5.25	5.72	5.81
Omaha .....	235.86	252.74	248.86	41.4	41.5	40.4	5.70	6.09	6.16
<b>NEVADA</b> .....	224.76	248.32	252.41	39.5	38.8	39.5	5.69	6.40	6.39
Las Vegas .....	292.83	308.03	(*)	42.5	39.9	(*)	6.89	7.72	(*)
<b>NEW HAMPSHIRE</b> .....	177.11	189.37	186.24	39.8	39.7	38.8	4.45	4.77	4.80
Manchester .....	158.34	166.37	168.25	39.0	38.6	38.5	4.06	4.31	4.37
Nashua .....	205.84	213.96	213.84	41.5	40.6	39.6	4.96	5.27	5.40
<b>NEW JERSEY</b> <sup>1</sup> .....	230.83	245.83	229.36	41.0	40.7	37.6	5.63	6.04	6.10
Atlantic City <sup>1</sup> .....	164.09	191.89	189.74	34.4	37.7	35.6	4.77	5.09	5.33
Camden <sup>1,3</sup> .....	223.56	243.20	228.51	40.5	40.0	37.4	5.52	6.08	6.11
Hackensack <sup>1,4</sup> .....	215.46	231.57	214.83	42.0	41.5	38.5	5.13	5.58	5.58
Jersey City <sup>1,4</sup> .....	225.28	242.14	229.74	40.3	39.5	37.6	5.59	6.13	6.11
New Brunswick—Perth Amboy—Sayreville <sup>1,4</sup> .....	251.58	266.09	236.16	42.0	41.0	36.5	5.99	6.49	6.47
Newark <sup>1,4</sup> .....	239.78	246.43	231.48	41.7	40.8	37.7	5.75	6.04	6.14
Paterson—Clifton—Passaic <sup>1,4</sup> .....	218.69	231.24	223.23	40.8	39.8	37.9	5.36	5.81	5.89
Trenton <sup>1</sup> .....	237.63	250.57	224.99	40.9	39.9	35.1	5.81	6.28	6.41
<b>NEW MEXICO</b> .....	165.50	182.62	186.19	38.4	39.7	39.7	4.31	4.60	4.69
Albuquerque .....	171.08	190.24	192.64	37.6	41.0	40.9	4.55	4.64	4.71
<b>NEW YORK</b> .....	220.18	231.27	230.83	39.6	39.0	38.6	5.56	5.93	5.98
Albany—Schenectady—Troy .....	246.45	244.53	255.67	41.7	39.0	40.2	5.91	6.27	6.36
Binghamton .....	195.60	206.04	209.20	40.0	39.7	40.0	4.89	5.19	5.23
Buffalo .....	297.91	303.16	303.35	41.9	40.1	40.5	7.11	7.56	7.49
Elmira .....	217.62	228.67	232.46	40.6	39.7	39.4	5.36	5.76	5.90
Monroe County <sup>5</sup> .....	286.86	303.73	303.48	42.0	41.1	40.9	6.83	7.39	7.42
Nassau—Suffolk <sup>6</sup> .....	212.00	221.48	216.58	40.0	39.2	37.6	5.30	5.65	5.76
New York—Northeastern New Jersey <sup>1</sup> .....	211.86	223.65	(*)	39.6	39.1	(*)	5.35	5.72	(*)
New York and Nassau—Suffolk <sup>4</sup> .....	195.83	204.17	197.64	38.1	37.6	36.0	5.14	5.43	5.49
New York SMSA <sup>6</sup> .....	194.67	200.14	193.49	37.8	37.2	35.7	5.15	5.38	5.42
New York City <sup>7</sup> .....	192.00	197.78	191.16	37.5	36.9	35.4	5.12	5.36	5.40
Poughkeepsie .....	222.98	247.08	244.53	41.6	43.5	41.8	5.36	5.68	5.85
Rochester .....	271.88	284.31	286.94	41.7	40.5	40.7	6.52	7.02	7.05
Rockland County <sup>7</sup> .....	218.17	232.26	227.43	42.2	42.0	39.9	5.17	5.53	5.70
Syracuse .....	242.95	256.40	264.50	40.9	40.0	41.2	5.94	6.41	6.42
Utica—Rome .....	204.00	223.20	220.80	40.0	40.0	40.0	5.10	5.58	5.52
Westchester County <sup>7</sup> .....	212.12	222.55	211.30	39.5	39.6	37.8	5.37	5.62	5.59
<b>NORTH CAROLINA</b> .....	155.23	165.79	172.33	39.1	38.2	39.8	3.97	4.34	4.33
Asheville .....	152.10	154.64	173.01	39.2	36.3	40.9	3.88	4.26	4.23
Charlotte—Gastonia .....	161.99	172.80	174.07	40.6	40.0	40.2	3.99	4.32	4.33
Greensboro—Winston-Salem—High Point .....	167.78	177.46	183.92	39.2	38.0	39.3	4.28	4.67	4.68
Raleigh—Durham .....	171.90	189.54	191.09	38.2	39.0	39.4	4.50	4.86	4.85
<b>NORTH DAKOTA</b> .....	192.77	209.38	210.82	38.4	38.0	38.4	5.02	5.51	5.49
Fargo—Moorhead .....	202.90	220.97	218.52	38.5	37.2	37.1	5.27	5.94	5.89
<b>OHIO</b> .....	268.27	280.50	295.40	41.4	39.9	42.2	6.48	7.03	7.00
Akron .....	276.45	277.89	289.95	42.4	40.1	41.9	6.52	6.93	6.92
Canton .....	254.41	294.33	291.13	39.2	40.1	40.1	6.49	7.34	7.26
Cincinnati .....	243.81	260.80	276.64	40.5	40.0	42.3	6.02	6.52	6.54
Cleveland .....	276.22	285.91	304.88	42.3	39.6	42.7	6.53	7.22	7.14
Columbus .....	243.98	240.28	263.68	40.8	38.2	41.2	5.98	6.29	6.40
Dayton .....	291.89	288.64	304.59	43.5	41.0	42.9	6.71	7.04	7.10
Toledo .....	282.91	300.76	311.32	42.1	41.2	43.0	6.72	7.30	7.24
Youngstown—Warren .....	291.51	314.11	317.10	39.5	38.4	39.1	7.38	8.18	8.11

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P	FEB. 1977	JAN. 1978	FEB. 1978P
<b>OKLAHOMA</b> .....	\$204.22	\$217.11	\$217.28	40.2	38.7	38.8	\$5.08	\$5.61	\$5.60
Oklahoma City .....	200.26	215.36	211.74	39.5	39.3	39.8	5.07	5.48	5.32
Tulsa .....	220.00	231.07	231.67	40.0	38.9	39.2	5.50	5.94	5.91
<b>OREGON</b> <sup>1</sup> .....	247.40	270.74	269.66	38.9	38.9	38.8	6.36	6.96	6.95
Eugene—Springfield <sup>1</sup> .....	268.54	302.06	(*)	40.2	40.6	(*)	6.68	7.44	(*)
Jackson County <sup>1</sup> .....	246.96	275.02	(*)	39.2	39.8	(*)	6.30	6.91	(*)
Portland <sup>1</sup> .....	241.88	255.56	(*)	38.7	38.2	(*)	6.25	6.69	(*)
<b>PENNSYLVANIA</b> <sup>1</sup> .....	216.93	238.62	238.70	38.6	38.8	38.5	5.62	6.15	6.20
Allentown—Bethlehem—Easton .....	217.17	234.38	229.96	38.1	37.5	36.1	5.70	6.25	6.37
Altoona .....	185.09	188.49	198.00	38.4	36.6	37.5	4.82	5.15	5.28
Delaware Valley <sup>1, 8</sup> .....	231.08	243.84	235.06	39.3	38.4	36.5	5.88	6.35	6.44
Erie .....	233.21	242.42	259.34	40.7	39.1	42.1	5.73	6.20	6.16
Harrisburg .....	195.05	209.37	205.84	38.7	38.7	37.7	5.04	5.41	5.46
Johnstown .....	226.31	283.73	281.80	37.1	41.3	40.9	6.10	6.87	6.89
Lancaster .....	196.78	211.85	202.20	39.2	38.8	37.1	5.02	5.46	5.45
Northeast Pennsylvania .....	160.38	174.47	166.77	35.8	35.9	34.6	4.48	4.86	4.82
Philadelphia SMSA <sup>1</sup> .....	(*)	244.20	233.87	(*)	38.7	36.6	(*)	6.31	6.39
Pittsburgh .....	262.08	295.42	303.35	39.0	39.6	40.5	6.72	7.46	7.49
Reading .....	192.65	214.70	206.15	38.3	37.8	35.3	5.03	5.68	5.84
Scranton <sup>9</sup> .....	171.23	186.38	179.58	37.8	37.5	36.8	4.53	4.97	4.88
Wilkes-Barre—Hazleton <sup>10</sup> .....	151.95	164.91	157.26	34.3	34.5	32.9	4.43	4.78	4.78
Williamsport .....	201.56	217.88	219.29	39.6	39.4	39.3	5.09	5.53	5.58
York .....	202.91	223.44	217.06	40.5	40.7	38.9	5.01	5.49	5.58
<b>RHODE ISLAND</b> .....	167.78	174.50	165.44	39.2	38.1	35.2	4.28	4.58	4.70
Providence—Warwick—Pawtucket .....	170.25	175.87	165.09	39.5	38.4	35.2	4.31	4.58	4.69
<b>SOUTH CAROLINA</b> .....	163.14	180.10	181.30	39.5	40.2	40.2	4.13	4.48	4.51
Charleston—North Charleston .....	190.34	204.12	207.97	41.2	40.5	41.1	4.62	5.04	5.06
Columbia .....	165.78	182.80	180.52	39.1	40.0	39.5	4.24	4.57	4.57
Greenville—Spartanburg .....	165.24	179.50	180.95	40.4	39.8	40.3	4.09	4.51	4.49
<b>SOUTH DAKOTA</b> .....	187.15	204.42	208.47	39.4	40.4	41.2	4.75	5.06	5.06
Sioux Falls .....	241.28	257.61	264.56	41.6	42.3	43.3	5.80	6.09	6.11
<b>TENNESSEE</b> .....	180.18	182.52	201.00	39.6	36.0	40.2	4.55	5.07	5.00
Chattanooga .....	190.54	184.24	211.46	40.8	35.5	41.3	4.67	5.19	5.12
Knoxville .....	213.84	209.05	234.55	40.5	34.9	40.3	5.28	5.99	5.82
Memphis .....	206.04	210.00	224.30	39.7	37.3	39.7	5.19	5.63	5.65
Nashville—Davidson .....	195.77	200.19	212.13	40.2	36.8	40.1	4.87	5.44	5.29
<b>TEXAS</b> .....	213.27	230.40	233.56	40.7	40.0	40.2	5.24	5.76	5.81
Amarillo .....	229.47	241.23	242.11	44.3	43.0	42.7	5.18	5.61	5.67
Austin .....	179.68	179.17	181.25	41.4	41.0	41.1	4.34	4.37	4.41
Beaumont—Port Arthur—Orange .....	310.43	325.54	336.18	40.9	39.7	40.7	7.59	8.20	8.26
Corpus Christi .....	247.63	260.99	267.69	41.9	41.1	44.1	5.91	6.35	6.07
Dallas—Fort Worth .....	195.69	207.62	204.14	40.1	39.1	38.3	4.88	5.31	5.33
El Paso .....	144.38	166.71	170.38	37.6	38.5	38.9	3.84	4.33	4.38
Galveston—Texas City .....	331.75	363.35	365.08	42.1	43.0	42.9	7.88	8.45	8.51
Houston .....	263.13	293.78	293.78	41.9	42.7	42.7	6.28	6.88	6.88
Lubbock .....	148.61	166.02	166.45	38.5	38.7	38.8	3.86	4.29	4.29
San Antonio .....	160.39	171.97	173.49	39.8	39.9	39.7	4.03	4.31	4.37
Waco .....	176.99	186.05	183.86	40.5	38.6	37.6	4.37	4.82	4.89
Wichita Falls .....	187.23	203.00	198.70	39.5	40.6	39.9	4.74	5.00	4.98
<b>UTAH</b> .....	202.69	213.59	213.44	39.9	39.7	39.6	5.08	5.38	5.39
Salt Lake City—Ogden .....	195.02	204.11	205.71	39.8	40.1	40.1	4.90	5.09	5.13
<b>VERMONT</b> .....	188.09	201.46	199.26	40.8	40.7	40.5	4.61	4.95	4.92
Burlington .....	231.42	241.36	232.26	43.5	43.1	42.0	5.32	5.60	5.53
Springfield .....	213.00	223.86	237.02	41.2	41.0	42.1	5.17	5.46	5.63
<b>VIRGINIA</b> .....	180.58	189.63	198.70	39.6	37.7	39.9	4.56	5.03	4.98
Bristol .....	161.95	161.36	176.99	39.5	34.7	37.9	4.10	4.65	4.67
Lynchburg .....	178.75	189.38	203.91	39.9	37.5	40.7	4.48	5.05	5.01
Norfolk—Virginia Beach—Portsmouth .....	211.14	216.22	215.60	41.4	39.6	40.0	5.10	5.46	5.39
Northern Virginia <sup>11</sup> .....	201.22	214.18	227.33	39.3	36.8	38.4	5.12	5.82	5.92
Petersburg—Colonial Heights—Hopewell .....	205.11	228.75	232.76	38.7	37.5	38.6	5.30	6.10	6.03
Richmond .....	212.14	234.60	237.00	38.5	39.1	39.5	5.51	6.00	6.00

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	FEB. 1977	JAN. 1978	FEB. 1978 <sup>P</sup>	FEB. 1977	JAN. 1978	FEB. 1978 <sup>P</sup>	FEB. 1977	JAN. 1978	FEB. 1978 <sup>P</sup>
<b>VIRGINIA—Continued</b>									
Roanoke .....	\$166.04	\$166.78	\$175.76	40.4	36.1	38.8	\$4.11	\$4.62	\$4.53
<b>WASHINGTON</b> .....	261.74	282.36	(*)	39.3	39.0	(*)	6.66	7.24	(*)
Seattle—Everett .....	265.95	288.75	(*)	39.4	39.5	(*)	6.75	7.31	(*)
Spokane .....	225.04	242.44	(*)	38.8	38.3	(*)	5.80	6.33	(*)
Tacoma .....	260.41	282.21	(*)	39.1	38.5	(*)	6.66	7.33	(*)
<b>WEST VIRGINIA</b> .....	222.32	245.10	253.34	38.2	38.0	39.4	5.82	6.45	6.43
Charleston .....	268.74	296.67	295.26	41.6	42.2	42.0	6.46	7.03	7.03
Huntington—Ashland .....	244.05	253.50	269.79	38.8	36.9	39.1	6.29	6.87	6.90
Parkersburg—Marietta .....	241.13	264.37	272.24	39.4	39.4	41.0	6.12	6.71	6.64
Wheeling .....	223.69	258.33	269.07	38.7	39.2	40.1	5.78	6.59	6.71
<b>WISCONSIN</b> .....	240.17	262.17	264.17	40.4	40.3	40.7	5.94	6.50	6.48
Appleton—Oshkosh .....	236.31	259.91	259.91	41.7	41.7	41.8	5.67	6.23	6.22
Green Bay .....	246.25	258.74	263.25	42.1	40.4	41.0	5.85	6.41	6.42
Kenosha .....	262.93	283.86	278.01	39.8	38.2	38.7	6.61	7.44	7.18
La Crosse .....	205.84	206.52	207.34	40.4	39.6	39.6	5.10	5.22	5.23
Madison .....	259.83	271.83	279.68	39.7	39.4	40.3	6.55	6.91	6.93
Milwaukee .....	262.06	293.12	293.32	40.4	41.1	41.2	6.49	7.13	7.12
Racine .....	255.77	287.92	293.48	40.4	41.3	42.1	6.33	6.97	6.98
<b>WYOMING</b> <sup>1</sup> .....	237.54	225.98	229.88	41.6	37.6	38.7	5.71	6.01	5.94
Casper <sup>1</sup> .....	280.03	283.40	286.06	41.0	40.0	41.1	6.83	7.08	6.96
Cheyenne <sup>1</sup> .....	211.46	(*)	(*)	38.8	(*)	(*)	5.45	(*)	(*)

<sup>1</sup> Revised to 1977 benchmark; not strictly comparable with previously published data.

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

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

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

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

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

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

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

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

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

<sup>11</sup> Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

\* Not available.

<sup>P</sup> preliminary.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.4	4.1	3.7	4.0	4.0	4.9	5.3	4.6	6.0	5.3	4.8	3.6	2.7
1973	4.8	4.6	4.0	4.4	4.5	5.3	5.9	5.1	6.2	5.7	5.2	3.8	2.6
1974	4.2	4.2	3.6	4.0	4.4	5.1	5.4	4.8	5.4	4.9	3.8	2.4	1.8
1975	3.7	3.0	2.7	3.2	3.7	3.9	4.5	4.5	5.1	4.6	3.7	2.8	2.2
1976	3.9	3.8	3.5	4.2	3.9	4.4	4.8	4.2	5.1	4.4	3.5	3.0	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.2	5.2	4.6	3.8	3.0	2.3
1978	-	3.7	P3.2										
<b>New hires</b>													
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.4	2.7	2.9	3.6	4.1	3.4	4.4	4.3	3.8	2.9	2.0
1973	3.9	3.5	3.1	3.5	3.6	4.4	5.0	4.1	5.0	4.7	4.3	3.0	2.0
1974	3.2	3.2	2.7	3.0	3.3	3.9	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.0	2.4	1.7	1.3
1976	2.6	2.1	2.1	2.6	2.5	3.0	3.6	2.8	3.5	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.4	3.7	3.0	3.9	3.5	2.9	2.2	1.5
1978	-	2.4	P2.2										
<b>Recalls</b>													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.8	1.0	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	1.0	1.0	.8	.6	.6	.6
1978	-	1.0	P.7										
<b>Total separations</b>													
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.2	4.0	3.5	3.8	3.8	3.9	4.2	4.8	5.4	5.3	4.3	3.7	3.7
1973	4.6	4.3	3.7	4.2	4.1	4.4	4.5	5.1	6.5	5.7	4.9	4.2	3.9
1974	4.8	4.9	4.0	4.4	4.2	4.4	4.2	4.9	6.1	5.4	5.0	5.0	5.2
1975	4.2	6.2	4.5	4.2	4.0	3.9	3.6	4.4	4.6	4.3	4.0	3.5	3.4
1976	3.8	3.7	3.1	3.5	3.5	3.4	3.5	4.3	4.9	4.6	4.1	3.4	3.5
1977	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.8	3.8	3.3	3.3
1978	-	3.5	P3.1										
<b>Quits</b>													
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.2	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	1.9	1.6
1973	2.7	2.2	2.1	2.5	2.5	2.7	2.8	2.8	4.5	3.9	3.0	2.2	1.6
1974	2.3	2.2	1.9	2.3	2.4	2.6	2.5	2.5	4.0	3.2	2.2	1.4	.9
1975	1.4	1.1	.9	1.0	1.1	1.3	1.3	1.5	2.4	2.0	1.6	1.2	.9
1976	1.7	1.3	1.2	1.5	1.6	1.7	1.8	1.8	2.8	2.4	1.7	1.2	1.0
1977	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978	-	1.5	P1.4										
<b>Layoffs</b>													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.4	1.1	1.1	1.0	.8	1.1	1.7	.9	.9	.9	1.0	1.3
1973	.9	1.0	.7	.8	.7	.6	.6	1.4	.8	.7	.8	1.1	1.5
1974	1.5	1.7	1.2	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.1	2.9	2.5	2.1	1.8	1.5	2.0	1.3	1.4	1.6	1.7	1.9
1976	1.3	1.6	1.1	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	1.1	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1	1.1	1.4
1978	-	1.2	P.9										

P=preliminary.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>
-	<b>MANUFACTURING</b> .....	3.7	3.2	2.4	2.2	1.0	0.7	3.5	3.1	1.5	1.4	1.2	0.9
19,24,25,32-39	<b>DURABLE GOODS</b> .....	3.5	3.0	2.3	2.1	.9	.6	3.2	2.9	1.3	1.2	1.1	.9
20-23,28-31	<b>NONDURABLE GOODS</b> .....	4.1	3.5	2.6	2.4	1.2	.9	4.0	3.4	1.8	1.7	1.4	1.0
	<b>DURABLE GOODS</b>												
19	<b>ORDNANCE AND ACCESSORIES</b> .....	2.5	1.5	1.3	.9	.9	.3	1.6	1.9	.5	.5	.4	.9
192	Ammunition, except for small arms .....	1.9	-	.9	-	.6	-	1.6	-	.5	-	.6	-
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	4.8	4.3	3.7	3.4	.9	.7	4.8	5.2	2.6	2.5	1.3	1.8
242	Sawmills and planing mills .....	4.5	-	3.6	-	.8	-	4.6	-	2.8	-	1.0	-
2421	Sawmills and planing mills, general .....	4.1	-	3.3	-	.8	-	4.4	-	2.5	-	1.0	-
243	Millwork, plywood and related products .....	4.9	-	3.9	-	.8	-	4.9	-	2.6	-	1.4	-
2431	Millwork .....	5.8	-	4.5	-	.9	-	5.0	-	2.8	-	1.0	-
2432	Veneer and plywood .....	3.8	-	3.2	-	.4	-	3.3	-	2.1	-	.5	-
244	Wooden containers .....	7.0	-	5.6	-	1.4	-	7.4	-	4.5	-	1.8	-
2441,2	Wooden boxes, shooks, and crates .....	6.0	-	4.8	-	1.2	-	7.6	-	4.0	-	2.3	-
249	Miscellaneous wood products .....	5.4	-	4.3	-	1.0	-	4.6	-	2.8	-	.8	-
26	<b>FURNITURE AND FIXTURES</b> .....	5.5	4.7	4.8	4.1	.5	.3	4.9	4.5	2.9	2.9	.9	.5
261	Household furniture .....	6.0	-	5.3	-	.4	-	5.0	-	3.3	-	.5	-
2611	Wood household furniture .....	6.0	-	5.4	-	.3	-	5.4	-	3.6	-	.4	-
2612	Upholstered household furniture .....	5.3	-	4.9	-	.2	-	4.6	-	3.4	-	.4	-
2616	Mattresses and bedsprings .....	5.7	-	4.8	-	.6	-	4.2	-	2.6	-	.6	-
262	Office furniture .....	4.3	-	4.0	-	.3	-	4.0	-	1.6	-	1.5	-
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	3.4	3.1	2.0	1.9	1.2	1.0	4.3	3.2	1.4	1.2	2.1	1.2
321	Flat glass .....	1.8	-	.2	-	1.5	-	3.8	-	.3	-	3.0	-
322	Glass and glassware, pressed or blown .....	2.8	-	1.0	-	1.5	-	2.8	-	.7	-	1.3	-
3221	Glass containers .....	2.8	-	1.0	-	1.7	-	3.3	-	.9	-	1.7	-
3229	Pressed and blown glass, nec .....	2.7	-	.9	-	1.4	-	2.2	-	.6	-	.7	-
324	Cement, hydraulic .....	2.1	-	.6	-	1.4	-	1.9	-	.2	-	1.2	-
325	Structural clay products .....	4.6	-	3.6	-	.8	-	5.5	-	2.6	-	1.9	-
3251	Brick and structural clay tile .....	5.0	-	4.4	-	.5	-	8.4	-	4.0	-	3.2	-
326	Pottery and related products .....	3.0	-	2.2	-	.5	-	3.1	-	1.4	-	.6	-
3291	Abrasive products .....	2.6	-	1.8	-	.4	-	1.8	-	.7	-	.3	-
33	<b>PRIMARY METAL INDUSTRIES</b> .....	3.3	2.2	1.5	1.1	1.5	.8	2.6	2.3	.6	.5	1.0	.8
331	Blast furnace and basic steel products .....	3.7	-	1.1	-	2.3	-	2.6	-	.3	-	1.2	-
3312	Blast furnaces and steel mills .....	3.8	-	1.0	-	2.4	-	2.5	-	.2	-	1.2	-
332	Iron and steel foundries .....	3.6	-	2.2	-	1.1	-	2.9	-	1.0	-	1.0	-
3321	Gray iron foundries .....	3.5	-	1.9	-	1.3	-	2.8	-	1.0	-	1.0	-
3322	Malleable iron foundries .....	2.9	-	2.4	-	.2	-	2.3	-	1.1	-	.4	-
3323	Steel foundries .....	4.2	-	2.7	-	1.2	-	3.4	-	1.0	-	1.2	-
333,4	Nonferrous metals .....	2.9	-	1.6	-	1.1	-	1.8	-	.5	-	.3	-
335	Nonferrous rolling and drawing .....	2.1	-	1.4	-	.5	-	2.4	-	.5	-	1.2	-
3351	Copper rolling and drawing .....	3.0	-	2.0	-	.9	-	1.5	-	.7	-	.1	-
3352	Aluminum rolling and drawing .....	2.1	-	1.4	-	.6	-	1.4	-	.4	-	.3	-
3357	Nonferrous wire drawing, and insulating .....	1.7	-	1.0	-	.2	-	3.5	-	.5	-	2.4	-
336	Nonferrous foundries .....	3.9	-	3.0	-	.8	-	3.2	-	1.5	-	.6	-
3361	Aluminum castings .....	4.3	-	3.4	-	.8	-	3.4	-	1.8	-	.6	-
3362,9	Other nonferrous castings .....	3.4	-	2.4	-	.8	-	2.9	-	1.2	-	.6	-
339	Miscellaneous primary metal products .....	2.2	-	1.6	-	.5	-	2.0	-	.8	-	.5	-
3391	Iron and steel forgings .....	2.0	-	1.3	-	.6	-	1.9	-	.7	-	.6	-
34	<b>FABRICATED METAL PRODUCTS</b> .....	3.7	3.3	2.6	2.4	.8	.6	3.8	3.4	1.5	1.4	1.5	1.1
341	Metal cans .....	6.4	-	1.1	-	4.5	-	5.7	-	.4	-	4.2	-
342	Cutlery, hand tools, and hardware .....	3.5	-	2.6	-	.3	-	3.4	-	1.4	-	1.2	-
3421,3,5	Cutlery and hand tools, incl. saws .....	3.3	-	2.9	-	.3	-	2.5	-	1.5	-	.3	-
3429	Hardware, nec .....	3.6	-	2.4	-	.2	-	3.9	-	1.3	-	1.7	-
343	Plumbing and heating, except electric .....	3.6	-	2.9	-	.6	-	2.5	-	1.2	-	.6	-
3431,2	Sanitary ware and plumbers' brass goods .....	3.5	-	2.5	-	.9	-	2.0	-	.7	-	.5	-
3433	Heating equipment, except electric .....	3.7	-	3.2	-	.4	-	3.0	-	1.5	-	.7	-
344	Fabricated structural metal products .....	3.8	-	3.0	-	.7	-	4.3	-	1.8	-	1.6	-
3441	Fabricated structural steel .....	4.8	-	3.7	-	1.0	-	5.4	-	1.9	-	2.1	-
3443	Fabricated plate work (boiler shops) .....	2.1	-	1.6	-	.4	-	2.4	-	1.0	-	.7	-
3446,9	Architectural and misc. metal work .....	3.7	-	2.7	-	.8	-	4.7	-	1.7	-	1.9	-
345	Screw machine products, bolts, etc. ....	3.3	-	3.0	-	.2	-	3.4	-	1.7	-	.8	-
3452	Bolts, nuts, rivets, and washers .....	2.3	-	1.9	-	.2	-	3.6	-	1.2	-	1.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>	Jan. 1978	Feb. 1978 <sup>P</sup>
	<b>DURABLE GOODS — Continued</b>												
	<b>FABRICATED METAL PRODUCTS — Continued</b>												
346	Metal stampings . . . . .	2.9	-	1.5	-	0.9	-	3.8	-	0.9	-	2.1	-
348	Miscellaneous fabricated wire products . . . . .	4.1	-	3.3	-	.6	-	3.6	-	1.8	-	1.0	-
349	Miscellaneous fabricated metal products . . . . .	3.2	-	2.6	-	.4	-	2.9	-	1.3	-	.7	-
3494,8	Valves, pipe, and pipe fittings . . . . .	2.9	-	2.4	-	.3	-	2.4	-	1.1	-	.5	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> . . . . .	2.9	2.4	2.1	1.9	.5	0.3	2.4	2.1	1.0	0.9	.6	0.4
351	Engines and turbines . . . . .	2.2	-	1.0	-	.4	-	2.0	-	.4	-	.3	-
3511	Steam engines and turbines . . . . .	1.6	-	.4	-	-	-	2.0	-	.2	-	( <sup>1</sup> )	-
3519	Internal combustion engines, nec . . . . .	2.5	-	1.4	-	.5	-	2.0	-	.6	-	.4	-
352	Farm machinery . . . . .	4.3	-	2.1	-	1.8	-	3.3	-	1.0	-	1.4	-
353	Construction and related machinery . . . . .	3.1	-	1.9	-	1.0	-	2.2	-	.9	-	.6	-
3531,2	Construction and mining machinery . . . . .	3.2	-	1.3	-	1.7	-	1.8	-	.5	-	.7	-
3533	Oil field machinery . . . . .	4.0	-	3.5	-	.2	-	2.8	-	1.7	-	.2	-
3535,6	Conveyors, hoists, cranes, monorails . . . . .	2.0	-	1.6	-	.4	-	2.4	-	.8	-	.9	-
354	Metal working machinery . . . . .	2.9	-	2.4	-	.3	-	2.4	-	1.2	-	.4	-
3541	Machine tools, metal cutting types . . . . .	2.0	-	1.8	-	.1	-	1.4	-	.8	-	.1	-
3545	Machine tool accessories . . . . .	2.6	-	2.3	-	.3	-	2.5	-	1.3	-	.3	-
3542,8	Miscellaneous metal working machinery . . . . .	3.0	-	2.5	-	.4	-	2.5	-	1.1	-	.6	-
355	Special industry machinery . . . . .	2.6	-	2.0	-	.3	-	2.4	-	1.0	-	.7	-
3551	Food products machinery . . . . .	3.2	-	2.3	-	.4	-	2.5	-	1.2	-	.6	-
3552	Textile machinery . . . . .	3.0	-	2.1	-	.6	-	3.6	-	1.2	-	1.3	-
356	General industrial machinery . . . . .	2.3	-	1.8	-	.4	-	2.1	-	.8	-	.6	-
3561	Pumps and compressors . . . . .	1.9	-	1.6	-	.2	-	1.7	-	.8	-	.3	-
3562	Ball and roller bearings . . . . .	1.7	-	.9	-	.6	-	2.0	-	.5	-	1.0	-
3566	Power transmission equipment . . . . .	1.9	-	1.6	-	.3	-	1.8	-	.7	-	.3	-
357	Office and computing machines . . . . .	2.4	-	2.0	-	.1	-	1.8	-	1.0	-	.2	-
3573	Electronic computing equipment . . . . .	2.5	-	2.1	-	.1	-	1.8	-	1.1	-	.1	-
358	Service industry machines . . . . .	3.5	-	2.7	-	.6	-	2.8	-	1.1	-	.6	-
3585	Refrigeration machinery . . . . .	3.4	-	2.5	-	.7	-	2.3	-	1.0	-	.3	-
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b> . . . . .	3.6	2.8	2.3	2.0	.7	.4	3.0	2.5	1.2	1.1	.8	.6
361	Electric test and distributing equipment . . . . .	3.3	-	2.5	-	.4	-	3.0	-	1.4	-	.6	-
3611	Electric measuring instruments . . . . .	3.9	-	3.3	-	.3	-	3.1	-	1.8	-	.5	-
3612	Transformers . . . . .	4.1	-	2.9	-	.5	-	3.0	-	1.2	-	.3	-
3613	Switchgear and switchboard apparatus . . . . .	2.1	-	1.3	-	.3	-	2.9	-	1.1	-	.7	-
362	Electrical industrial apparatus . . . . .	3.1	-	2.4	-	.3	-	2.2	-	1.1	-	.3	-
3621	Motors and generators . . . . .	3.2	-	2.4	-	.3	-	2.0	-	1.0	-	.2	-
3622	Industrial controls . . . . .	3.2	-	2.5	-	.3	-	2.7	-	1.1	-	.5	-
363	Household appliances . . . . .	5.0	-	2.7	-	1.5	-	4.2	-	1.3	-	1.9	-
3632	Household refrigerators and freezers . . . . .	8.7	-	4.4	-	2.9	-	3.0	-	.8	-	.6	-
3633	Household laundry equipment . . . . .	3.2	-	1.9	-	.8	-	1.5	-	.6	-	.5	-
3634	Electric housewares and fans . . . . .	5.3	-	2.8	-	2.1	-	6.6	-	2.3	-	3.6	-
364	Electric lighting and wiring equipment . . . . .	4.6	-	2.6	-	1.4	-	3.2	-	1.3	-	1.0	-
3641	Electric lamps . . . . .	2.2	-	1.2	-	.2	-	1.9	-	.7	-	.2	-
3642	Lighting fixtures . . . . .	6.3	-	3.9	-	1.5	-	3.4	-	1.5	-	.7	-
3643,4	Wiring devices . . . . .	4.4	-	2.3	-	1.7	-	3.7	-	1.4	-	1.6	-
365	Radio and TV receiving equipment . . . . .	6.5	-	2.5	-	1.9	-	5.9	-	1.7	-	2.1	-
366	Communication equipment . . . . .	2.1	-	1.5	-	.2	-	1.6	-	.8	-	.2	-
3661	Telephone and telegraph apparatus . . . . .	1.2	-	.9	-	.2	-	.9	-	.5	-	( <sup>1</sup> )	-
3662	Radio and TV communication equipment . . . . .	2.6	-	1.8	-	.3	-	1.9	-	1.0	-	.4	-
367	Electronic components and accessories . . . . .	3.6	-	2.7	-	.5	-	3.0	-	1.5	-	.5	-
3671-3	Electron tubes . . . . .	2.8	-	1.3	-	.7	-	2.1	-	.7	-	.4	-
3674,9	Other electronic components . . . . .	3.7	-	2.9	-	.5	-	3.1	-	1.7	-	.5	-
369	Miscellaneous electrical equipment and supplies . . . . .	3.1	-	2.3	-	.6	-	3.7	-	1.3	-	1.6	-
3694	Engine electrical equipment . . . . .	3.1	-	2.2	-	.7	-	3.4	-	1.3	-	1.4	-
37	<b>TRANSPORTATION EQUIPMENT</b> . . . . .	3.3	-	1.8	-	1.1	-	3.2	-	1.0	-	1.4	-
371	Motor vehicles and equipment . . . . .	2.0	-	.8	-	.5	-	2.4	-	.6	-	1.0	-
3711	Motor vehicles . . . . .	1.8	-	.6	-	.5	-	2.2	-	.6	-	1.1	-
3712	Passenger car bodies . . . . .	1.5	-	.3	-	.1	-	2.6	-	.1	-	1.8	-
3713	Truck and bus bodies . . . . .	3.6	-	2.8	-	.7	-	2.6	-	1.4	-	.3	-
3714	Motor vehicle parts and accessories . . . . .	1.8	-	.6	-	.6	-	2.6	-	.5	-	1.1	-
372	Aircraft and parts . . . . .	2.2	-	1.6	-	.3	-	1.5	-	.7	-	.3	-
3721	Aircraft . . . . .	2.3	-	1.5	-	.3	-	1.4	-	.6	-	.3	-
3722	Aircraft engines and engine parts . . . . .	1.6	-	1.2	-	.2	-	1.0	-	.4	-	.1	-
3723,9	Other aircraft parts and equipment . . . . .	3.1	-	2.5	-	.4	-	2.5	-	1.2	-	.6	-
373	Ship and boat building and repairing . . . . .	7.1	-	3.0	-	3.9	-	8.3	-	2.2	-	5.2	-
3731	Ship building and repairing . . . . .	7.2	-	2.3	-	4.6	-	9.4	-	2.1	-	6.4	-
374	Railroad equipment . . . . .	2.6	-	1.2	-	.9	-	2.5	-	.6	-	.5	-
375,9	Other transportation equipment . . . . .	9.5	-	6.2	-	3.1	-	6.3	-	3.3	-	1.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>
<b>DURABLE GOODS — Continued</b>													
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	2.4	2.4	1.9	2.0	0.2	0.2	2.1	2.3	1.1	1.1	0.3	0.5
381	Engineering and scientific instruments	2.8	-	2.4	-	.3	-	1.5	-	.9	-	.2	-
382	Mechanical measuring and control devices	2.6	-	2.1	-	.2	-	2.2	-	1.0	-	.3	-
3821	Mechanical measuring devices	2.2	-	1.9	-	.1	-	1.8	-	.9	-	.1	-
3822	Automatic temperature controls	3.4	-	2.5	-	.3	-	2.8	-	1.0	-	.6	-
383,5	Optical and ophthalmic goods	3.1	-	2.7	-	.2	-	2.8	-	1.6	-	.7	-
384	Medical instruments and supplies	3.1	-	2.5	-	.3	-	2.6	-	1.5	-	.3	-
386	Photographic equipment and supplies	.7	-	.5	-	.1	-	1.2	-	.5	-	.2	-
387	Watches, clocks, and watchcases	3.7	-	2.6	-	.8	-	3.9	-	1.9	-	.9	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	5.6	4.5	3.0	2.9	2.2	1.4	4.6	3.7	1.9	1.6	1.8	1.2
391	Jewelry, silverware, and plated ware	3.5	-	2.9	-	.5	-	4.5	-	2.2	-	1.5	-
394	Toys and sporting goods	9.7	-	3.0	-	5.7	-	6.0	-	1.9	-	2.8	-
3941-3	Games, toys, dolls and play vehicles	14.5	-	2.9	-	10.1	-	7.2	-	2.3	-	3.8	-
3949	Sporting and athletic goods, nec	5.3	-	3.2	-	1.7	-	4.9	-	1.5	-	1.9	-
395	Pens, pencils, office and art supplies	2.8	-	2.4	-	.2	-	2.7	-	1.5	-	.3	-
396	Costume jewelry and notions	5.8	-	3.7	-	1.9	-	5.2	-	2.1	-	2.4	-
393,9	Other manufacturing industries	4.2	-	2.9	-	1.1	-	3.9	-	1.7	-	1.4	-
<b>NONDURABLE GOODS</b>													
20	<b>FOOD AND KINDRED PRODUCTS</b>	4.8	4.4	2.9	2.8	1.8	1.4	5.4	4.4	2.1	2.1	2.5	1.6
201	Meat products	6.6	-	4.3	-	1.9	-	6.5	-	3.3	-	2.2	-
2011	Meat packing plants	3.7	-	1.7	-	1.8	-	3.9	-	1.2	-	1.8	-
2015	Poultry dressing plants	12.0	-	9.1	-	2.3	-	11.2	-	7.1	-	2.7	-
204	Grain mill products	3.0	-	2.2	-	.6	-	3.6	-	1.5	-	1.3	-
2041	Flour and other grain mill products	2.3	-	2.0	-	.3	-	3.2	-	1.0	-	1.5	-
2042	Prepared feeds for animals and fowls	3.9	-	3.0	-	.8	-	3.4	-	2.1	-	.6	-
205	Bakery products	2.3	-	1.7	-	.5	-	2.4	-	1.3	-	.6	-
2051	Bread, cake, and related products	2.1	-	1.8	-	.3	-	2.3	-	1.4	-	.4	-
2052	Cookies and crackers	3.0	-	1.3	-	1.6	-	3.0	-	.8	-	1.7	-
207	Confectionery and related products	6.5	-	2.5	-	3.9	-	6.8	-	2.1	-	4.2	-
2071	Confectionery products	8.0	-	2.9	-	5.0	-	8.0	-	2.6	-	4.8	-
208	Beverages	3.2	-	2.2	-	.9	-	4.4	-	1.8	-	1.9	-
2082	Malt liquors	2.9	-	1.0	-	1.6	-	5.2	-	.5	-	4.1	-
21	<b>TOBACCO MANUFACTURES</b>	1.5	-	.6	-	.5	-	4.1	-	.4	-	2.7	-
211	Cigarettes	.8	-	.2	-	.1	-	1.2	-	.2	-	(1)	-
212	Cigars	3.1	-	2.3	-	.5	-	2.9	-	1.5	-	.9	-
22	<b>TEXTILE MILL PRODUCTS</b>	4.5	3.6	3.4	2.8	.7	.6	4.0	3.9	2.5	2.2	.7	.8
221	Weaving mills, cotton	3.4	-	2.6	-	.2	-	3.3	-	2.2	-	.2	-
222	Weaving mills, synthetics	3.8	-	3.2	-	.4	-	3.6	-	2.3	-	.4	-
223	Weaving and finishing mills, wool	3.7	-	2.9	-	.5	-	3.2	-	2.1	-	.4	-
224	Narrow fabric mills	4.9	-	3.9	-	.8	-	3.8	-	2.5	-	.5	-
225	Knitting mills	5.4	-	4.0	-	1.0	-	4.8	-	2.7	-	1.3	-
2251	Women's hosiery, except socks	4.7	-	3.1	-	.4	-	4.6	-	2.6	-	1.5	-
2252	Hosiery, nec	5.4	-	4.2	-	1.1	-	3.9	-	3.1	-	.3	-
2254	Knit underwear mills	5.0	-	4.4	-	.4	-	3.7	-	2.7	-	.1	-
226	Textile finishing, except wool	4.0	-	2.4	-	1.3	-	3.0	-	1.6	-	.6	-
227	Floor covering mills	3.4	-	2.7	-	.5	-	3.7	-	1.8	-	1.0	-
228	Yarn and thread mills	5.5	-	4.6	-	.5	-	5.0	-	3.7	-	.2	-
229	Miscellaneous textile goods	4.4	-	2.1	-	1.8	-	3.4	-	1.4	-	.9	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	5.9	4.9	3.5	3.2	2.0	1.5	5.6	4.4	2.7	2.3	2.1	1.3
231	Men's and boys' suits and coats	4.5	-	1.7	-	2.3	-	3.9	-	1.4	-	1.7	-
232	Men's and boys' furnishings	4.9	-	3.6	-	1.1	-	4.9	-	3.1	-	1.1	-
2321	Men's and boys' shirts and nightwear	4.3	-	2.9	-	1.0	-	4.0	-	2.6	-	.6	-
2327	Men's and boys' separate trousers	4.2	-	3.5	-	.4	-	4.7	-	3.0	-	1.2	-
2328	Men's and boys' work clothing	5.1	-	4.3	-	.6	-	5.2	-	4.0	-	.5	-
234	Women's and children's undergarments	4.9	-	3.6	-	.9	-	5.3	-	3.1	-	1.4	-
2341	Women's and children's underwear	5.2	-	3.9	-	.9	-	5.4	-	3.3	-	1.2	-
2342	Corsets and allied garments	3.9	-	2.5	-	.6	-	5.1	-	2.5	-	2.0	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	2.6	2.3	1.6	1.6	.8	.6	2.6	2.2	1.0	.9	.9	.7
261,2,6	Paper and pulp mills	1.2	-	.7	-	.3	-	1.8	-	.5	-	.7	-
263	Paperboard mills	2.1	-	1.0	-	.7	-	1.8	-	.7	-	.7	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
LABOR TURNOVER**

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

[Per 100 employees]

SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>	Jan. 1978	Feb. 1978 <sup>p</sup>
	<b>NONDURABLE GOODS—Continued</b>												
	<b>PAPER AND ALLIED PRODUCTS—Continued</b>												
264	Miscellaneous converted paper products . . . . .	3.1	-	2.0	-	0.9	-	2.6	-	1.2	-	0.7	-
2643	Bags, except textile bags . . . . .	3.1	-	2.6	-	.3	-	3.0	-	1.5	-	.7	-
265	Paperboard containers and boxes . . . . .	3.5	-	2.1	-	1.1	-	3.6	-	1.2	-	1.5	-
2651,2	Folding and setup paperboard boxes . . . . .	3.8	-	2.1	-	1.4	-	5.0	-	1.3	-	2.9	-
2653	Corrugated and solid fiber boxes . . . . .	2.8	-	1.9	-	.8	-	2.3	-	1.1	-	.5	-
27	<b>PRINTING AND PUBLISHING . . . . .</b>	3.0	2.8	2.4	2.2	.5	0.5	2.9	2.6	1.5	1.5	.9	0.6
28	<b>CHEMICALS AND ALLIED PRODUCTS . . . . .</b>	1.8	1.5	1.2	1.1	.4	.3	1.7	1.3	.6	.5	.5	.3
281	Industrial chemicals . . . . .	1.2	-	.8	-	.1	-	1.2	-	.4	-	.2	-
282	Plastics materials and synthetics . . . . .	1.6	-	1.1	-	.3	-	1.2	-	.4	-	.2	-
2821	Plastics materials and resins . . . . .	1.3	-	.9	-	.2	-	1.4	-	.5	-	.3	-
2823,4	Synthetic fibers . . . . .	1.8	-	1.1	-	.4	-	.9	-	.3	-	.1	-
283	Drugs . . . . .	1.5	-	1.1	-	.2	-	1.5	-	.6	-	.4	-
2834	Pharmaceutical preparations . . . . .	1.6	-	1.2	-	.3	-	1.6	-	.7	-	.5	-
284	Soap, cleaners, and toilet goods . . . . .	2.9	-	1.7	-	.9	-	2.7	-	.8	-	1.2	-
2841	Soap and other detergents . . . . .	1.2	-	.7	-	.4	-	2.8	-	.4	-	1.7	-
2844	Toilet preparations . . . . .	3.3	-	1.7	-	1.3	-	2.5	-	.9	-	.8	-
285	Paints and allied products . . . . .	2.2	-	1.6	-	.6	-	2.0	-	.9	-	.4	-
285,9	Other chemical products . . . . .	1.8	-	1.4	-	.4	-	2.7	-	1.0	-	1.1	-
29	<b>PETROLEUM AND COAL PRODUCTS . . . . .</b>	2.3	1.9	1.7	1.4	.4	.4	2.2	1.7	.6	.6	.8	.3
291	Petroleum refining . . . . .	1.6	-	1.4	-	( <sup>1</sup> )	-	1.3	-	.3	-	.3	-
295,9	Other petroleum and coal products . . . . .	4.6	-	2.9	-	1.6	-	5.1	-	1.6	-	2.6	-
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC . . . . .</b>	4.6	3.7	3.2	2.8	1.1	.6	4.2	4.0	2.0	1.9	1.1	1.1
301	Tires and inner tubes . . . . .	1.8	-	.5	-	.7	-	1.7	-	.4	-	.6	-
302,3,6	Other rubber products . . . . .	3.2	-	2.1	-	.8	-	3.7	-	1.5	-	1.3	-
307	Miscellaneous plastics products . . . . .	6.0	-	4.5	-	1.3	-	5.1	-	2.7	-	1.1	-
31	<b>LEATHER AND LEATHER PRODUCTS . . . . .</b>	7.0	5.4	4.3	3.6	2.4	1.4	6.1	5.2	3.2	3.1	1.7	1.2
311	Leather tanning and finishing . . . . .	4.5	-	3.4	-	1.0	-	4.3	-	1.9	-	1.4	-
314	Footwear, except rubber . . . . .	6.9	-	4.6	-	1.9	-	6.3	-	3.6	-	1.3	-
	<b>NONMANUFACTURING</b>												
10	<b>METAL MINING . . . . .</b>	3.2	2.0	1.8	1.6	.9	.3	2.5	2.1	1.3	1.0	.5	.5
101	Iron ores . . . . .	4.0	-	1.7	-	2.1	-	2.1	-	.6	-	.8	-
102	Copper ores . . . . .	2.3	-	.6	-	.8	-	1.8	-	.6	-	.3	-
11,12	<b>COAL MINING . . . . .</b>	.9	.9	.3	.2	.2	.5	2.7	1.2	.3	.4	.3	.5
12	Bituminous coal and lignite mining . . . . .	.9	-	.3	-	.1	-	2.8	-	.3	-	.3	-
	<b>COMMUNICATION:</b>												
481	Telephone communication . . . . .	.9	-	-	-	.0	-	.6	-	.3	-	.1	-
482	Telegraph communication <sup>2</sup> . . . . .	(*)	-	-	-	(*)	-	(*)	-	(*)	-	(*)	-

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

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

p = preliminary.

\* not available.

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

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

(Per 100 employees)

Year	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>												
1966	4.9	5.0	5.3	5.1	5.0	4.9	4.9	5.0	5.0	4.9	4.7	4.7
1967	4.5	4.4	4.3	4.3	4.4	4.5	4.4	4.3	4.4	4.4	4.5	4.6
1968	4.4	4.4	4.6	4.6	4.6	4.5	4.5	4.7	4.6	4.8	4.9	4.9
1969	4.9	4.8	4.9	4.9	4.7	5.0	4.7	4.5	4.7	4.6	4.5	4.6
1970	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972	4.3	4.3	4.4	4.3	4.4	4.2	4.3	4.4	4.4	4.6	4.6	4.9
1973	5.0	5.1	5.0	4.8	4.7	4.6	4.6	4.6	4.7	4.8	4.9	4.7
1974	4.7	4.6	4.5	4.5	4.6	4.3	4.2	4.1	3.9	3.6	3.1	3.1
1975	3.1	3.2	3.2	3.7	3.6	3.7	4.0	4.0	3.8	3.7	3.8	3.9
1976	4.1	4.2	4.3	4.1	4.0	3.8	3.8	3.8	3.7	3.6	3.9	4.1
1977	4.0	4.6	4.2	4.0	4.1	3.9	3.8	3.8	3.9	3.8	3.9	4.5
1978	4.0	P4.0										
<b>New hires</b>												
1966	3.7	3.8	4.1	4.0	4.0	3.9	3.8	3.7	3.7	3.9	3.7	3.6
1967	3.4	3.4	3.2	3.1	3.1	3.3	3.2	3.1	3.3	3.3	3.4	3.5
1968	3.3	3.3	3.4	3.5	3.5	3.4	3.4	3.5	3.6	3.6	3.6	3.7
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.6	3.5	3.7	3.6	3.5	3.5
1970	3.4	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972	3.0	3.0	3.1	3.2	3.2	3.1	3.2	3.2	3.4	3.5	3.7	3.8
1973	4.0	4.2	4.1	3.9	3.9	3.8	3.7	3.7	3.7	3.8	3.9	3.8
1974	3.8	3.6	3.6	3.5	3.5	3.3	3.2	3.1	2.9	2.6	2.2	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.2	2.2	2.3	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.5	2.5	2.4	2.4	2.5	2.6
1977	2.7	2.9	3.0	3.0	3.0	2.8	2.7	2.7	2.7	2.7	2.9	3.3
1978	2.9	P3.0										
<b>Total separations</b>												
1966	4.3	4.3	4.5	4.5	4.6	4.7	4.9	4.8	4.6	4.6	4.8	4.9
1967	4.8	4.9	4.9	4.7	4.6	4.6	4.5	4.3	4.5	4.5	4.4	4.5
1968	4.7	4.6	4.5	4.5	4.4	4.5	4.6	4.7	4.7	4.6	4.6	4.6
1969	4.6	4.9	4.9	4.8	4.8	5.0	4.8	4.9	4.9	5.0	4.9	4.9
1970	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972	4.2	4.1	4.0	4.3	4.2	4.5	4.4	4.1	4.0	4.2	4.2	4.4
1973	4.5	4.6	4.6	4.5	4.6	4.6	4.7	4.6	4.4	4.6	4.7	4.9
1974	4.9	4.9	4.9	4.8	4.6	4.6	4.5	4.6	4.5	4.8	5.1	5.0
1975	5.2	5.0	4.6	4.5	4.6	4.3	3.9	3.9	3.8	3.8	3.8	3.6
1976	3.5	3.6	3.9	3.9	3.8	3.9	3.9	4.0	3.9	3.9	3.6	3.7
1977	3.8	4.1	3.8	3.8	3.8	3.8	3.9	3.9	3.9	3.7	3.6	3.9
1978	3.6	P3.8										
<b>Quits</b>												
1966	2.3	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7
1967	2.5	2.5	2.4	2.4	2.3	2.4	2.2	2.2	2.3	2.3	2.3	2.4
1968	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.5	2.6	2.6
1969	2.7	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6
1970	2.5	2.5	2.3	2.3	2.1	2.1	2.1	2.0	2.0	1.9	1.8	1.9
1971	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.4	2.6
1973	2.7	2.9	2.8	2.8	2.7	2.7	2.8	2.7	2.6	2.8	2.8	2.8
1974	2.7	2.7	2.7	2.7	2.6	2.5	2.4	2.3	2.2	2.0	1.8	1.6
1975	1.4	1.3	1.2	1.2	1.3	1.3	1.4	1.4	1.3	1.5	1.6	1.6
1976	1.6	1.7	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.6	1.5	1.7
1977	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	2.1
1978	1.9	P2.0										
<b>Layoffs</b>												
1966	1.2	1.1	1.1	1.1	1.1	1.2	1.5	1.2	1.0	1.1	1.2	1.3
1967	1.4	1.5	1.6	1.5	1.4	1.3	1.4	1.3	1.3	1.3	1.2	1.2
1968	1.4	1.3	1.2	1.2	1.2	1.2	1.3	1.3	1.2	1.2	1.1	1.1
1969	1.0	1.1	1.1	1.0	1.1	1.3	1.1	1.2	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.6	1.9	1.9	2.2	2.0	1.7
1971	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972	1.2	1.2	1.1	1.2	1.1	1.4	1.3	1.1	1.0	1.0	.9	.9
1973	.8	.7	.8	.8	.8	.8	1.1	.9	.8	.8	.9	1.1
1974	1.3	1.2	1.1	1.1	1.1	1.2	1.2	1.4	1.4	1.9	2.4	2.5
1975	2.9	2.9	2.6	2.5	2.5	2.2	1.7	1.7	1.7	1.6	1.5	1.3
1976	1.1	1.0	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.5	1.3	1.2
1977	1.2	1.4	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.1	.9	1.0
1978	.9	P.9										

p=preliminary.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Dec. 1977	Jan. 1978 <sup>P</sup>	Dec. 1977	Jan. 1978 <sup>P</sup>	Dec. 1977	Jan. 1978 <sup>P</sup>	Dec. 1977	Jan. 1978 <sup>P</sup>	Dec. 1977	Jan. 1978 <sup>P</sup>	Dec. 1977	Jan. 1978 <sup>P</sup>
<b>ALABAMA:</b>												
Birmingham <sup>1</sup>	1.6	2.2	0.8	1.1	0.6	0.9	2.2	2.3	0.6	0.6	1.2	1.0
Mobile <sup>1 2</sup>	3.9	7.4	1.4	1.5	2.5	5.7	8.6	5.1	2.4	1.6	5.3	2.8
<b>ALASKA</b> <sup>1</sup>	4.6	4.8	3.0	3.5	1.0	.5	11.2	7.3	2.4	1.8	6.0	4.6
<b>ARIZONA</b> <sup>1</sup>	3.1	4.2	2.5	3.4	.4	.6	3.0	4.1	1.5	2.1	.6	.9
Phoenix <sup>1</sup>	3.1	4.3	2.6	3.6	.4	.5	3.1	4.1	1.5	2.1	.6	.8
<b>ARKANSAS</b> <sup>1</sup>	4.0	5.9	3.2	4.4	.5	1.2	5.2	4.9	3.0	3.1	1.4	.9
Fort Smith <sup>1</sup>	3.6	6.9	2.9	4.7	.1	1.4	3.6	4.4	2.7	3.1	.1	.1
Little Rock—North Little Rock <sup>1</sup>	3.2	7.9	2.8	4.6	.2	3.1	18.0	4.0	2.3	2.6	14.8	.3
Pine Bluff <sup>1</sup>	3.7	4.5	3.1	3.4	.4	.9	3.9	4.9	2.8	2.7	.7	1.4
<b>COLORADO</b> <sup>3</sup>	3.3	4.6	2.4	3.6	.7	.8	3.7	4.6	1.9	2.3	1.1	1.6
Denver—Boulder <sup>3</sup>	3.1	3.9	2.3	3.4	.4	.5	2.9	4.5	1.6	2.1	.6	1.7
<b>CONNECTICUT</b> <sup>1</sup>	1.4	2.3	1.0	1.5	.3	.5	2.3	2.4	.6	.9	1.1	.9
Hartford <sup>1</sup>	1.3	2.0	.8	1.5	.4	.4	1.5	1.8	.4	.8	.6	.5
<b>DELAWARE</b> <sup>1 2</sup>	2.0	2.9	.8	1.5	.6	.5	2.3	1.7	.6	.7	1.0	.3
Wilmington <sup>1 2</sup>	1.8	2.3	.6	.9	.8	.6	2.2	1.6	.5	.5	1.0	.4
<b>DISTRICT OF COLUMBIA:</b>												
Washington SMSA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>FLORIDA</b> <sup>1</sup>	4.2	5.5	3.1	4.4	.9	.9	4.2	4.4	2.2	2.7	1.3	.8
Fort Lauderdale—Hollywood <sup>1</sup>	4.1	7.4	3.8	6.8	.2	.5	3.4	4.3	2.3	3.2	.2	.1
Jacksonville <sup>1</sup>	3.2	3.7	1.9	2.2	1.3	1.4	5.4	3.9	1.1	2.0	3.6	1.2
Miami <sup>1</sup>	3.7	6.4	3.3	4.8	.3	1.5	4.2	4.5	2.3	2.6	1.1	1.1
Orlando <sup>1</sup>	4.1	5.6	2.6	4.6	1.3	.6	3.2	3.5	1.7	2.0	.8	.3
Pensacola <sup>1</sup>	1.1	1.2	.7	.8	.3	.4	1.7	2.8	.8	1.4	.4	.1
Tampa—St. Petersburg <sup>1</sup>	4.5	5.5	3.5	4.6	.9	.8	4.6	4.4	2.7	2.9	1.1	.7
West Palm Beach—Boca Raton <sup>1</sup>	3.1	2.7	2.5	2.5	.5	.2	2.6	3.3	1.3	2.3	.8	.1
<b>GEORGIA</b> <sup>1</sup>	2.4	4.0	1.5	3.1	.6	.5	2.7	3.5	1.5	2.1	.5	.5
Atlanta <sup>1 4</sup>	1.7	3.2	1.2	2.5	.4	.6	2.4	2.8	1.1	1.4	.6	.6
<b>HAWAII</b> <sup>1 5</sup>	5.3	2.5	.8	1.3	3.8	1.0	2.8	2.5	.8	.7	1.6	1.3
<b>IDAHO</b> <sup>6</sup>	4.1	5.5	3.4	4.2	.5	1.2	5.3	6.0	2.2	3.3	2.5	1.9
<b>ILLINOIS:</b>												
Chicago SMSA <sup>1</sup>	2.0	3.4	1.4	2.3	.5	.7	3.0	3.1	.8	1.5	1.3	.6
<b>INDIANA</b> <sup>1</sup>	1.8	3.5	1.1	2.3	.3	.7	2.5	2.9	.8	1.0	1.2	1.1
Indianapolis <sup>1 7</sup>	1.8	2.0	1.3	1.4	.1	.1	2.0	2.6	.7	1.0	.9	.9
<b>IOWA</b> <sup>3</sup>	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Cedar Rapids <sup>3</sup>	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Des Moines <sup>3</sup>	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>KANSAS</b> <sup>1</sup>	2.9	4.5	2.4	3.6	.3	.7	3.1	3.8	1.6	2.3	.8	.6
Topeka <sup>1</sup>	3.3	4.3	2.4	3.2	.8	.9	2.4	2.9	1.1	1.3	.5	.7
Wichita <sup>1</sup>	2.9	5.3	2.6	4.2	.2	.9	3.2	3.3	1.6	2.4	.7	.4
<b>KENTUCKY</b>	2.5	2.5	1.6	1.5	.6	.7	3.6	2.8	1.2	1.1	1.6	1.1
Louisville <sup>1</sup>	1.4	1.6	.7	1.0	.2	.4	1.6	1.8	.6	.6	.3	.3
<b>LOUISIANA:</b>												
New Orleans <sup>1</sup>	2.9	4.8	2.4	3.5	.4	1.0	3.1	4.6	1.5	1.9	.9	1.7
<b>MAINE</b> <sup>1</sup>	3.9	6.1	2.9	4.1	.8	1.7	5.7	4.5	2.0	2.4	2.9	1.1
Portland <sup>1</sup>	2.7	4.7	2.2	3.5	.4	1.1	2.7	3.0	1.3	1.6	.9	.8
<b>MARYLAND</b> <sup>1</sup>	2.3	2.8	.9	1.4	1.2	1.3	3.0	3.1	.7	.8	1.7	1.6
Baltimore <sup>1</sup>	2.3	2.8	.8	1.2	1.4	1.5	3.0	3.1	.6	.7	1.8	1.8
<b>MASSACHUSETTS</b>	2.4	4.1	1.6	2.5	.5	1.3	3.7	3.2	1.2	1.5	1.7	.9
Boston	2.0	3.1	1.4	2.2	.4	.6	3.2	3.4	1.0	1.2	1.3	1.2
<b>MICHIGAN</b>	1.4	(*)	.7	(*)	.3	(*)	2.3	(*)	.6	(*)	.9	(*)
Detroit	1.4	(*)	.7	(*)	.2	(*)	2.5	(*)	.7	(*)	.9	(*)
Flint	.6	(*)	.1	(*)	( <sup>B</sup> )	(*)	2.4	(*)	.2	(*)	1.2	(*)
Grand Rapids	2.4	(*)	1.3	(*)	.7	(*)	2.3	(*)	1.0	(*)	.4	(*)
Lansing—East Lansing	1.3	(*)	.3	(*)	.3	(*)	4.0	(*)	.3	(*)	1.9	(*)

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Dec. 1977	Jan. p 1978	Dec. 1977	Jan. p 1978	Dec. 1977	Jan. p 1978	Dec. 1977	Jan. p 1978	Dec. 1977	Jan. p 1978	Dec. 1977	Jan. p 1978
MINNESOTA <sup>1</sup>	2.3	3.8	1.7	2.6	0.4	1.0	3.3	3.2	1.1	1.4	1.6	1.1
Minneapolis—St. Paul <sup>1</sup>	2.0	3.3	1.5	2.4	.3	.8	2.3	2.7	1.0	1.2	.9	.9
MISSISSIPPI:												
Jackson <sup>1</sup>	2.8	3.1	2.5	2.2	.2	.6	3.1	4.0	1.7	1.8	1.0	1.6
MISSOURI <sup>1</sup>	2.3	3.3	1.5	2.2	.6	.8	3.0	3.3	1.1	1.5	1.2	1.2
Kansas City <sup>1</sup>	1.8	3.3	1.4	2.7	.3	.4	2.3	3.4	1.0	1.3	.7	1.3
St. Louis <sup>1</sup>	1.5	2.3	.9	1.5	.4	.6	3.3	2.6	.6	.9	2.0	1.0
MONTANA	2.1	2.4	1.7	1.3	(*)	(*)	1.9	3.5	1.0	1.4	.5	1.2
NEBRASKA <sup>1</sup>	3.7	4.1	3.3	3.1	.3	.9	3.5	3.7	1.9	2.2	1.0	.7
NEVADA	6.3	8.8	4.5	6.8	.8	1.1	6.0	7.7	3.5	3.9	.3	1.2
NEW HAMPSHIRE <sup>1</sup>	2.6	4.4	2.2	3.5	.2	.3	3.1	3.8	1.7	2.1	.6	.5
NEW JERSEY:												
Camden <sup>9</sup>	1.8	3.3	.8	1.8	.7	.9	2.6	2.7	.5	.8	1.4	.8
Hackensack	2.2	3.8	1.6	2.3	.6	1.4	3.1	3.7	1.0	1.3	1.3	1.5
Jersey City	2.5	3.4	1.8	1.9	.6	1.4	7.1	4.1	.8	.9	5.2	2.3
Newark	2.0	2.8	1.4	1.8	.5	.5	2.3	3.1	.7	1.0	.9	1.3
New Brunswick—Perth Amboy—Sayreville	2.2	3.9	1.7	2.2	.4	1.1	3.8	2.8	1.0	1.1	1.9	.5
Paterson—Clifton—Passaic	1.7	3.9	1.4	2.5	.2	1.1	4.6	4.5	1.1	1.2	2.8	2.4
Trenton	2.4	3.6	1.0	1.3	1.2	1.6	4.6	2.8	.8	.7	2.9	1.3
NEW YORK <sup>1</sup>	2.2	3.5	1.3	1.9	.7	1.3	4.0	3.9	.8	1.0	2.5	2.0
Albany—Schenectady—Troy <sup>1</sup>	1.4	2.6	.7	1.2	.4	.6	2.3	3.0	.6	.8	1.0	1.0
Binghamton <sup>1</sup>	1.9	2.0	1.4	1.5	.1	.4	1.8	2.3	.7	1.1	.6	.4
Buffalo <sup>1</sup>	1.6	2.4	.6	.9	.8	1.1	2.6	2.8	.4	.5	1.3	1.4
Elmira <sup>1</sup>	1.7	2.3	1.2	1.2	.3	.5	1.8	3.1	.4	.7	.9	1.3
Monroe County <sup>1 10</sup>	1.0	1.1	.7	.8	.2	.1	1.3	1.5	.4	.7	.4	.3
Nassau—Suffolk <sup>1 11</sup>	3.1	4.5	2.6	3.6	.4	.7	5.6	5.2	1.8	2.0	2.6	2.2
New York and Nassau—Suffolk <sup>1</sup>	2.9	4.7	1.7	2.6	1.2	1.9	5.3	5.5	1.1	1.3	3.5	3.4
New York SMSA <sup>1 11</sup>	2.9	4.7	1.4	2.4	1.4	2.1	5.2	5.6	.9	1.1	3.7	3.7
New York City <sup>1 12</sup>	3.1	5.0	1.5	2.5	1.5	2.4	5.7	6.2	.9	1.2	4.2	4.2
Rochester <sup>1</sup>	1.3	1.5	.8	1.0	.3	.3	2.3	2.2	.5	.7	1.3	.9
Syracuse <sup>1</sup>	1.2	1.9	.8	1.2	.3	.5	2.3	2.2	.5	.7	1.3	.8
Utica—Rome <sup>1</sup>	1.8	3.1	1.1	1.9	.6	1.0	1.8	2.3	.6	.8	.7	1.0
Westchester County <sup>1 12</sup>	1.6	2.6	1.2	1.7	.2	.7	2.1	1.8	.7	.7	.9	.5
NORTH CAROLINA <sup>1</sup>	2.1	4.2	1.7	3.5	.2	.3	3.0	4.1	1.7	2.6	.7	.7
Charlotte—Gastonia <sup>1</sup>	2.6	5.1	2.3	4.2	.1	.5	3.7	4.9	2.1	3.3	1.0	.5
Greensboro—Winston-Salem—High Point <sup>1</sup>	2.2	4.0	1.8	3.3	.1	.2	2.7	3.7	1.6	2.3	.6	.6
NORTH DAKOTA <sup>1</sup>	3.3	4.2	2.4	2.7	.5	1.2	5.9	4.1	1.8	1.7	3.3	1.5
Fargo—Moorhead <sup>1</sup>	4.0	3.3	2.7	3.2	.2	(8)	8.8	8.4	1.4	1.5	6.4	5.8
OHIO <sup>1</sup>	1.5	2.5	.8	1.3	(*)	(*)	2.0	2.8	.6	.8	.8	1.3
Akron <sup>1</sup>	1.0	1.7	.6	.9	(*)	(*)	1.6	1.4	.5	.6	.7	.3
Canton <sup>1</sup>	1.8	2.6	.7	1.0	(*)	(*)	2.2	3.3	.5	.7	.7	1.5
Cincinnati <sup>1</sup>	1.6	2.1	1.0	1.6	(*)	(*)	1.7	2.1	.7	.8	.6	.5
Cleveland <sup>1</sup>	1.5	2.2	1.0	1.4	(*)	(*)	1.8	2.6	.7	.8	.5	.9
Columbus <sup>1</sup>	1.5	2.3	1.0	1.2	(*)	(*)	1.8	3.0	.6	.8	.5	1.5
Dayton <sup>1</sup>	1.0	1.6	.7	1.2	(*)	(*)	1.5	2.1	.5	.6	.4	.8
Toledo <sup>1</sup>	1.5	1.9	.6	1.3	(*)	(*)	1.6	2.5	.4	.7	.6	1.1
Youngstown—Warren <sup>1</sup>	1.3	2.6	.2	.5	(*)	(*)	2.4	4.7	.2	.3	1.5	3.3
OKLAHOMA <sup>1</sup>	3.7	5.5	3.3	4.9	.3	.5	3.9	4.8	2.7	3.3	.4	.5
Oklahoma City <sup>1</sup>	3.6	5.5	3.0	4.9	.5	.5	3.7	4.9	2.5	3.6	.5	.4
Tulsa <sup>1 13</sup>	3.9	5.1	3.5	4.8	.3	.3	3.9	5.1	2.6	3.0	.4	.8
OREGON <sup>1 3</sup>	3.3	4.6	2.6	3.6	.6	.7	3.7	3.9	1.6	1.9	1.4	1.1
Portland <sup>1 3</sup>	3.5	4.9	2.8	3.9	.6	.8	3.3	3.9	1.5	2.0	1.1	1.1
PENNSYLVANIA <sup>1</sup>	2.1	3.5	1.0	1.5	.9	1.7	3.4	3.2	.6	.8	2.2	1.6
Allentown—Bethlehem—Easton <sup>1</sup>	1.3	3.4	.6	1.0	.6	2.0	3.2	2.9	.6	.8	2.2	1.3
Altoona <sup>1</sup>	2.6	3.4	1.0	.7	1.6	2.6	3.0	5.8	1.0	.8	1.7	4.4
Erie <sup>1</sup>	2.0	2.2	1.1	1.4	.7	.5	2.0	2.7	.5	.8	.9	1.0
Harrisburg <sup>1</sup>	1.9	2.3	1.1	1.4	.7	.8	3.4	2.0	1.0	.9	1.8	.5
Johnstown <sup>1</sup>	3.5	3.5	1.1	.6	2.3	2.8	4.2	7.5	.7	1.0	3.3	4.8
Lancaster <sup>1</sup>	1.8	4.1	1.5	3.0	.2	1.1	5.2	2.9	1.0	1.4	3.7	.7

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Dec. 1977	Jan. 1978 <sup>p</sup>	Dec. 1977	Jan. 1978 <sup>p</sup>	Dec. 1977	Jan. 1978 <sup>p</sup>	Dec. 1977	Jan. 1978 <sup>p</sup>	Dec. 1977	Jan. 1978 <sup>p</sup>	Dec. 1977	Jan. 1978 <sup>p</sup>
<b>PENNSYLVANIA—Continued</b>												
Northeast Pennsylvania <sup>1</sup>	1.8	6.1	0.9	2.2	0.6	3.3	4.3	5.0	0.6	1.0	3.2	3.3
Philadelphia SMSA <sup>1</sup>	1.7	2.8	.9	1.3	.6	1.2	2.6	3.0	.6	.8	1.5	1.5
Pittsburgh <sup>1</sup>	1.8	3.0	.6	1.2	.9	1.5	2.7	2.7	.3	.4	1.8	1.6
Reading <sup>1</sup>	2.1	3.8	1.6	2.3	.4	1.4	3.0	3.1	1.0	1.2	1.5	1.2
Scranton <sup>1</sup>	2.1	5.5	1.2	1.8	.8	3.5	4.7	7.3	.8	1.1	3.6	5.7
Wilkes-Barre—Hazleton <sup>1</sup>	1.7	6.6	.7	2.2	.5	3.3	4.6	3.5	.6	.9	3.4	1.6
Williamsport <sup>1</sup>	1.8	2.1	1.0	1.3	.7	.6	1.3	1.8	.6	.6	.4	.9
York <sup>1</sup>	2.6	3.4	2.2	2.8	.3	.4	3.0	3.7	1.2	1.6	1.2	1.5
<b>RHODE ISLAND<sup>1</sup></b>												
Providence—Warwick—Pawtucket <sup>1</sup>	3.4	4.8	2.8	3.7	.4	.9	5.1	4.7	2.3	2.4	2.0	1.6
<b>SOUTH CAROLINA<sup>1</sup></b>												
Charleston—North Charleston <sup>1</sup>	2.8	5.0	1.6	4.2	1.1	.7	4.0	3.3	1.4	1.8	1.5	.1
Columbia <sup>1</sup>	1.4	3.9	1.2	3.4	( <sup>8</sup> )	.2	3.1	3.2	1.4	1.8	1.2	.9
Greenville—Spartanburg <sup>1</sup>	2.1	4.0	1.8	3.4	.1	.3	2.5	3.8	1.6	2.4	.2	.3
<b>SOUTH DAKOTA</b>												
Sioux Falls	2.1	1.9	1.7	1.4	.4	.5	4.8	4.2	1.1	1.0	2.8	2.9
<b>TENNESSEE:</b>												
Memphis <sup>1</sup>	2.0	3.0	1.5	2.1	.3	.7	3.4	2.8	1.0	1.2	1.6	.8
<b>TEXAS:</b>												
Dallas—Fort Worth	3.1	4.8	2.8	4.3	.2	.3	3.5	4.0	2.3	2.8	.5	.3
Houston	3.0	4.6	2.7	4.2	.1	.2	3.2	3.7	1.9	2.3	.3	.3
San Antonio	3.1	4.4	2.8	4.0	.2	.3	3.2	3.9	2.0	2.5	.5	.6
<b>UTAH<sup>5</sup></b>												
Salt Lake City—Ogden <sup>5</sup>	3.9	5.5	3.3	4.7	.5	.6	3.9	4.4	2.5	2.9	.6	.5
<b>VERMONT</b>												
Burlington	2.5	5.5	1.6	2.4	.7	2.9	5.0	3.4	1.0	1.2	3.5	1.6
Springfield	1.9	2.5	1.1	1.5	.6	.5	1.8	1.4	.5	.5	1.0	.6
<b>VIRGINIA<sup>1</sup></b>												
Richmond <sup>1</sup>	1.4	2.0	1.0	1.4	.2	.2	1.2	1.7	.6	.6	.1	.2
<b>WASHINGTON:</b>												
Seattle—Everett <sup>15</sup>	2.3	4.4	1.4	2.9	.8	1.3	2.6	3.2	1.0	1.4	1.1	1.2
<b>WISCONSIN<sup>1</sup></b>												
Milwaukee <sup>1</sup>	2.0	2.6	1.2	1.8	.5	.4	2.0	2.9	.6	1.0	.6	1.0
<b>WYOMING<sup>1</sup></b>												
	3.9	4.9	3.4	4.3	.5	.5	4.9	5.4	2.8	2.6	1.5	1.4

<sup>1</sup> Revised series; not strictly comparable with previously published data.

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

<sup>3</sup> Based on the 1967 Standard Industrial Classification Manual.

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

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

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

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

<sup>8</sup> Less than 0.05.

<sup>9</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

<sup>10</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

<sup>11</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

<sup>12</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>13</sup> Excludes new-hire rate for transportation equipment.

<sup>14</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

<sup>15</sup> Excludes canning and preserving, printing and publishing.

<sup>p</sup> preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	FEB. 1977R	JAN. 1978R	FEB. 1978P	FEB. 1977P	JAN. 1978R	FEB. 1978P	FEB. 1977R	JAN. 1978R	FEB. 1978P
<b>ALABAMA</b> .....	1,473.1	1,526.5	1,537.1	125.1	104.8	100.2	8.5	6.9	6.5
Birmingham .....	348.1	358.5	361.9	28.4	21.3	20.9	8.2	5.9	5.8
Huntsville .....	123.2	125.7	126.7	11.7	8.3	8.0	9.5	6.6	6.3
Mobile .....	164.7	173.4	175.4	14.3	12.4	12.9	8.7	7.1	7.3
Montgomery .....	101.4	108.0	108.9	6.5	5.2	5.0	6.5	4.8	4.6
Tuscaloosa .....	50.9	52.9	53.5	3.4	4.0	3.8	6.6	7.6	7.1
<b>ALASKA</b> .....	165.2	172.1	173.3	18.4	21.7	20.7	11.1	12.6	11.9
<b>ARIZONA</b> .....	963.3	988.1	981.3	87.3	70.4	66.0	9.1	7.1	6.7
Phoenix .....	567.4	586.1	585.1	48.0	35.8	33.4	8.5	6.1	5.7
Tucson .....	183.4	143.0	182.6	14.7	12.2	11.4	8.0	6.7	6.2
<b>ARKANSAS</b> .....	873.5	900.0	915.2	71.1	74.3	67.6	8.1	8.3	7.4
Fayetteville-Springdale .....	66.9	69.1	69.9	4.4	4.6	4.5	6.5	6.6	6.5
Fort Smith <sup>1</sup> .....	77.9	81.0	81.5	5.7	6.3	6.2	7.4	7.8	7.6
Little Rock-North Little Rock .....	168.5	176.8	176.9	9.7	11.2	8.7	5.8	6.3	4.9
Pine Bluff .....	33.6	35.2	35.6	2.3	2.9	2.5	7.0	8.2	7.1
<b>CALIFORNIA</b> <sup>2</sup> .....	9,956.6	10,280.4	10,386.0	904.9	813.0	853.6	9.1	7.9	8.2
Anaheim-Santa Ana-Garden Grove .....	887.5	959.9	968.7	57.9	54.4	50.3	6.5	5.7	5.2
Bakersfield .....	158.1	163.4	161.5	15.6	15.3	15.3	9.9	9.3	9.5
Fresno .....	229.2	245.6	246.6	24.7	25.1	27.9	10.8	10.2	11.3
Los Angeles-Long Beach <sup>2</sup> .....	3,315.0	3,353.0	3,383.0	276.0	249.0	282.0	8.3	7.4	8.3
Modesto .....	123.9	124.5	129.6	22.6	16.1	20.5	18.5	13.0	15.8
Oxnard-Simi Valley-Ventura .....	190.3	200.0	200.9	15.2	18.0	16.4	8.0	9.0	8.2
Riverside-San Bernardino-Ontario .....	511.6	530.7	534.1	45.3	39.2	37.1	8.9	7.4	6.9
Sacramento .....	412.4	433.9	440.1	40.7	36.8	38.6	9.9	8.5	8.8
Salinas-Seaside-Monterey .....	112.7	116.4	122.5	12.9	13.7	15.1	11.4	11.8	12.3
San Diego .....	631.3	655.3	660.4	60.8	49.3	48.4	9.6	7.5	7.3
San Francisco-Oakland .....	1,510.3	1,541.0	1,550.3	124.3	98.7	95.6	8.2	6.4	6.2
San Jose .....	600.4	633.4	643.4	46.2	41.5	42.2	7.7	6.6	6.6
Santa Barbara-Santa Maria-Lompoc .....	132.0	133.4	134.5	11.9	10.4	9.8	9.0	7.8	7.3
Santa Rosa .....	111.3	114.8	116.4	12.4	10.4	10.9	11.2	9.1	9.4
Stockton .....	143.9	147.6	153.2	18.9	19.5	21.9	13.1	13.2	14.3
Vallejo-Fairfield-Napa .....	114.4	116.7	118.6	10.2	8.8	8.9	8.9	7.6	7.5
<b>COLORADO</b> .....	1,217.7	1,236.0	1,234.0	87.7	80.2	72.7	7.2	6.5	5.9
Denver-Boulder .....	720.3	733.7	732.3	48.4	42.6	38.4	6.7	5.8	5.2
<b>CONNECTICUT</b> .....	1,467.3	1,523.1	1,505.9	129.7	100.5	95.9	8.9	6.6	6.4
Bridgeport .....	181.7	187.0	185.4	16.9	13.1	12.6	9.3	7.0	6.8
Hartford .....	348.0	363.9	359.9	29.2	21.8	20.2	8.4	6.0	5.6
New Britain .....	70.5	70.7	71.4	6.7	5.2	5.1	9.4	7.4	7.2
New Haven-West Haven .....	195.3	195.0	191.8	19.0	12.9	11.4	9.7	6.6	5.9
Stamford .....	107.4	117.9	115.3	7.0	5.6	5.5	6.5	4.7	4.7
Waterbury .....	106.1	108.9	106.8	10.7	8.3	7.7	10.0	7.7	7.2
<b>DELAWARE</b> .....	262.4	261.1	261.7	34.2	19.8	25.5	13.0	7.6	9.7
Wilmington <sup>1</sup> .....	232.8	229.3	229.7	30.6	16.2	21.6	13.1	7.1	9.4
<b>DISTRICT OF COLUMBIA</b> .....	323.8	323.6	325.1	33.2	27.0	26.1	10.3	8.3	8.0
Washington SMSA <sup>1</sup> .....	1,502.9	1,505.0	1,507.4	87.4	76.5	76.6	5.8	5.1	5.1
<b>FLORIDA</b> <sup>2</sup> .....	3,438.0	3,629.9	3,639.1	343.2	271.6	222.9	10.0	7.5	6.1
Fort Lauderdale-Hollywood .....	353.0	365.2	368.0	41.7	29.6	24.5	11.8	8.1	6.7
Jacksonville .....	278.8	298.1	298.5	21.1	20.0	16.5	7.6	6.7	5.5
Miami .....	661.2	697.4	692.6	70.3	54.6	45.2	10.6	7.8	6.5
Orlando .....	264.5	279.0	279.4	24.9	20.1	16.2	9.4	7.2	5.8
Pensacola .....	100.4	107.7	107.5	6.4	6.5	5.1	6.3	6.0	4.8
Tampa-St. Petersburg .....	528.9	555.9	558.7	52.1	39.1	31.8	9.9	7.0	5.7
West Palm Beach-Boca Raton .....	199.0	209.7	210.5	23.5	15.6	12.7	11.8	7.4	6.0
<b>GEORGIA</b> .....	2,188.0	2,250.3	2,247.2	161.7	150.8	129.1	7.4	6.7	5.7
Atlanta .....	853.6	860.2	854.6	66.8	58.1	48.7	7.8	6.8	5.7
Augusta <sup>1</sup> .....	116.0	121.2	121.3	10.1	9.0	8.0	8.7	7.4	6.6
Columbus <sup>1</sup> .....	80.0	86.0	85.8	5.7	5.9	5.3	7.2	6.9	6.2
Macon .....	101.3	103.2	103.3	8.6	8.8	8.2	8.5	8.5	7.9
Savannah .....	84.3	86.4	86.2	5.9	5.9	4.9	7.0	6.8	5.7

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	FEB. 1977R	JAN. 1978R	FEB. 1978P	FEB. 1977R	JAN. 1978R	FEB. 1978P	FEB. 1977R	JAN. 1978R	FEB. 1978P
<b>HAWAII</b> .....	399.4	393.9	399.6	31.9	25.2	24.3	8.0	6.4	6.1
Honolulu .....	316.4	310.3	315.5	24.3	19.3	18.8	7.7	6.2	6.0
<b>IDAHO</b> .....	366.6	389.0	388.5	29.3	26.2	25.1	8.0	6.7	6.4
Boise City .....	73.7	80.6	81.7	4.1	3.2	3.2	5.0	4.0	3.9
<b>ILLINOIS</b> <sup>2</sup> .....	5,093.1	5,254.3	5,234.8	335.6	395.9	374.0	6.0	7.5	7.1
Bloomington—Normal .....	57.4	N.A.	N.A.	2.8	N.A.	N.A.	4.9	N.A.	N.A.
Champaign—Urbana—Rantoul .....	72.4	N.A.	N.A.	3.7	N.A.	N.A.	5.1	N.A.	N.A.
Chicago .....	3,237.6	N.A.	N.A.	196.3	N.A.	N.A.	6.1	N.A.	N.A.
Davenport—Rock Island—Moline <sup>1</sup> .....	171.8	N.A.	N.A.	9.5	N.A.	N.A.	5.0	N.A.	N.A.
Decatur .....	59.6	N.A.	N.A.	5.0	N.A.	N.A.	8.4	N.A.	N.A.
Peoria .....	164.3	N.A.	N.A.	9.7	N.A.	N.A.	5.9	N.A.	N.A.
Rockford .....	126.4	N.A.	N.A.	8.3	N.A.	N.A.	6.5	N.A.	N.A.
Springfield .....	94.5	N.A.	N.A.	5.8	N.A.	N.A.	6.1	N.A.	N.A.
<b>INDIANA</b> .....	2,422.9	2,475.5	2,486.1	198.1	160.7	163.4	8.2	6.5	6.6
Evansville <sup>1</sup> .....	131.9	N.A.	133.9	7.9	N.A.	7.3	6.0	N.A.	5.4
Fort Wayne .....	172.1	N.A.	177.0	11.7	N.A.	9.5	6.0	N.A.	5.3
Gary—Hammond—East Chicago .....	276.8	N.A.	281.5	26.0	N.A.	17.7	9.4	N.A.	6.3
Indianapolis .....	541.9	N.A.	555.7	38.7	N.A.	34.0	7.1	N.A.	6.1
Muncie .....	55.5	N.A.	56.8	6.2	N.A.	4.3	11.1	N.A.	7.6
South Bend .....	132.2	N.A.	133.8	10.1	N.A.	7.8	7.7	N.A.	5.8
Terre Haute .....	75.3	N.A.	79.0	6.3	N.A.	6.4	8.4	N.A.	8.1
<b>IOWA</b> .....	1,323.6	1,352.8	1,362.5	68.3	68.3	67.0	5.2	5.0	4.9
Cedar Rapids .....	80.6	82.1	82.6	3.7	3.2	3.3	4.6	3.9	4.0
Des Moines .....	169.0	171.5	172.1	8.3	7.7	7.7	4.9	4.5	4.5
Dubuque .....	42.5	43.9	44.2	2.6	2.7	2.6	6.2	6.1	5.9
Sioux City <sup>1</sup> .....	55.7	57.5	57.6	3.1	3.5	3.4	5.5	6.1	5.8
Waterloo—Cedar Falls .....	63.7	64.4	64.9	3.5	3.1	3.2	5.5	4.8	5.0
<b>KANSAS</b> .....	1,085.2	1,098.4	1,112.0	49.8	44.0	44.6	4.5	4.0	4.0
Topeka .....	89.9	93.1	93.6	4.2	4.3	4.3	4.7	4.7	4.5
Wichita .....	201.8	204.1	203.5	10.9	8.4	8.3	5.4	4.1	4.1
<b>KENTUCKY</b> .....	1,431.2	1,464.7	1,490.6	94.2	89.6	101.9	6.6	6.1	6.8
Lexington—Fayette .....	149.3	147.7	151.0	5.4	5.3	5.6	3.7	3.6	3.7
Louisville <sup>1</sup> .....	387.8	N.A.	399.8	27.0	N.A.	23.7	7.0	N.A.	5.9
<b>LOUISIANA</b> .....	1,568.6	1,603.8	1,619.4	117.2	120.4	125.4	7.5	7.5	7.7
Baton Rouge .....	199.7	206.3	205.5	13.0	14.2	14.3	6.5	6.0	7.0
Lake Charles .....	66.1	64.7	65.9	5.2	6.3	7.0	7.4	9.8	10.6
Monroe .....	52.6	53.3	53.5	4.1	4.1	4.3	7.7	7.7	8.0
New Orleans .....	461.7	473.4	475.0	36.4	33.1	33.3	7.7	7.0	7.0
Shreveport .....	146.9	150.4	151.6	9.6	9.6	10.0	6.5	6.4	6.6
<b>MAINE</b> .....	451.9	450.4	450.6	46.0	36.2	33.8	10.2	8.0	7.5
Lewiston—Auburn .....	35.9	36.5	36.2	2.9	2.5	2.3	8.1	6.8	6.3
Portland .....	81.8	81.7	82.2	7.6	5.1	4.8	9.4	6.3	5.8
<b>MARYLAND</b> .....	1,914.5	1,958.5	1,962.9	156.6	136.3	137.0	8.2	7.0	7.0
Baltimore .....	955.3	1,005.6	1,004.0	84.0	75.9	74.8	8.8	7.5	7.4
<b>MASSACHUSETTS</b> <sup>2</sup> .....	2,731.3	2,818.4	2,793.7	265.4	212.2	199.5	9.7	7.5	7.1
Boston .....	1,322.1	1,357.8	1,346.8	119.1	94.3	91.9	9.0	6.9	6.8
Brockton .....	76.8	78.9	78.5	8.4	6.3	6.3	10.9	8.0	8.1
Fall River <sup>1</sup> .....	74.4	77.1	76.6	8.5	6.1	6.3	11.4	8.0	8.2
Lawrence—Haverhill <sup>1</sup> .....	N.A.	136.2	135.7	N.A.	11.8	10.8	N.A.	8.7	7.9
Lowell <sup>1</sup> .....	106.0	111.4	111.6	10.7	9.0	8.0	10.1	8.0	7.2
New Bedford .....	80.8	83.4	81.9	10.6	8.9	7.9	13.1	10.7	9.7
Springfield—Chicopee—Holyoke <sup>1</sup> .....	269.7	276.1	276.4	23.2	17.7	15.9	8.6	6.4	5.7
Worcester .....	191.2	198.3	195.8	15.0	12.7	11.5	7.7	6.4	5.9
<b>MICHIGAN</b> <sup>2</sup> .....	4,092.8	4,163.9	4,160.6	400.4	339.2	298.6	9.8	8.2	7.2
Ann Arbor .....	132.9	134.3	135.9	10.6	7.8	6.9	8.0	5.8	5.1
Battle Creek .....	81.4	81.2	81.3	8.1	6.7	5.9	9.9	8.2	7.3
Bay City .....	51.2	52.9	53.9	4.9	3.7	3.7	9.6	7.1	6.9
Detroit .....	1,955.5	2,000.5	1,991.3	181.1	153.2	141.5	9.3	7.7	7.1
Flint .....	215.1	223.9	221.2	21.3	19.5	15.9	9.9	8.7	7.2

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	FFB. 1977R	JAN. 1978R	FEB. 1978P	FEH. 1977R	JAN. 1978R	FEH. 1978P	FEH. 1977R	JAN. 1978R	FEB. 1978P
<b>MICHIGAN—Continued</b>									
Grand Rapids .....	278.7	283.0	285.1	21.2	17.0	14.5	7.6	6.0	5.1
Jackson .....	65.4	65.6	64.7	6.9	4.7	3.9	10.5	7.2	6.0
Kalamazoo—Portage .....	130.2	126.3	130.6	10.1	4.0	7.1	7.8	7.0	5.4
Lansing—East Lansing .....	220.5	224.1	226.0	17.9	15.6	13.4	8.1	7.0	5.9
Muskegon—Norton Shores—Muskegon Heights .....	75.1	75.8	75.7	7.9	7.5	6.9	10.5	10.0	9.1
Saginaw .....	97.2	102.4	102.6	7.6	6.4	5.3	7.7	6.2	5.2
<b>MINNESOTA</b>									
Duluth—Superior .....	1,831.5	1,900.1	1,904.9	122.7	99.7	94.3	6.7	5.2	5.0
Minneapolis—St. Paul .....	112.3	N.A.	N.A.	10.9	N.A.	N.A.	9.7	N.A.	N.A.
	977.8	1,025.1	1,019.2	49.2	38.6	35.8	5.0	3.8	3.5
<b>MISSISSIPPI</b>									
Jackson .....	926.4	960.8	967.8	73.8	76.2	73.2	8.0	7.9	7.6
	131.5	137.7	139.6	8.2	8.5	7.8	6.2	6.1	5.6
<b>MISSOURI</b>									
Kansas City <sup>1</sup> .....	2,170.5	2,216.2	2,205.3	153.1	153.6	150.2	7.1	6.9	6.8
Lincoln .....	637.0	655.3	651.5	40.8	35.8	33.5	6.4	5.5	5.1
St. Joseph .....	44.4	45.6	45.5	3.5	3.1	2.9	7.9	6.7	6.5
St. Louis <sup>1</sup> .....	1,041.6	N.A.	N.A.	80.5	N.A.	N.A.	7.7	N.A.	N.A.
Springfield .....	95.6	97.6	97.5	5.1	5.5	5.3	5.4	5.7	5.4
<b>MONTANA</b>									
Billings .....	320.3	N.A.	N.A.	25.4	N.A.	N.A.	7.9	N.A.	N.A.
Great Falls .....	48.8	N.A.	N.A.	2.4	N.A.	N.A.	5.0	N.A.	N.A.
	33.3	N.A.	N.A.	2.5	N.A.	N.A.	7.6	N.A.	N.A.
<b>NEBRASKA</b>									
Lincoln .....	714.1	735.1	733.2	30.4	33.8	33.1	4.3	4.6	4.5
Omaha <sup>1</sup> .....	100.9	103.6	104.5	3.1	4.0	4.0	3.1	3.9	3.8
	261.4	269.1	267.5	14.7	11.8	11.5	5.6	4.4	4.3
<b>NEVADA</b>									
Las Vegas .....	308.0	320.6	323.4	26.5	21.0	19.1	8.6	6.6	5.9
Reno .....	169.2	173.5	174.7	15.3	11.8	10.9	9.0	6.8	6.3
	85.8	92.0	93.0	6.3	5.1	4.4	7.3	5.5	4.7
<b>NEW HAMPSHIRE</b>									
Manchester .....	385.2	397.4	400.3	27.2	20.4	20.1	7.0	5.1	5.0
	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>NEW JERSEY<sup>2</sup></b>									
Atlantic City .....	3,317.3	3,360.2	3,326.1	382.2	263.1	276.8	11.5	7.9	8.3
Jersey City .....	78.8	78.1	77.3	13.9	9.4	11.1	17.5	12.1	14.3
Long Branch—Asbury Park .....	264.7	254.5	252.8	42.3	28.9	28.4	16.0	11.4	11.2
Newark .....	210.3	214.2	211.8	23.9	17.0	17.9	11.4	7.9	8.5
New Brunswick—Perth Amboy—Sayreville .....	926.1	948.0	936.6	98.8	66.5	72.9	10.7	7.0	7.8
Paterson—Clifton—Passaic .....	294.8	311.1	306.5	31.6	20.6	21.7	10.7	6.6	7.1
Trenton .....	212.4	210.6	209.1	28.3	19.3	20.5	13.5	9.1	9.8
Vineland—Millville—Bridgeton .....	153.9	157.8	156.8	11.0	9.3	9.2	7.1	5.9	5.9
	58.2	60.1	59.5	9.8	6.3	6.1	16.4	10.4	10.3
<b>NEW MEXICO</b>									
Albuquerque .....	478.6	495.5	501.4	45.3	35.1	32.6	9.5	7.1	6.5
	178.3	184.2	186.4	17.3	12.5	11.2	9.7	6.8	6.0
<b>NEW YORK<sup>2</sup></b>									
Albany—Schenectady—Troy .....	7,680.9	7,789.1	7,743.4	810.9	682.4	688.1	10.0	8.8	8.9
Binghamton <sup>1</sup> .....	349.2	361.4	358.2	32.2	22.5	24.8	9.2	6.2	6.9
Buffalo .....	128.4	135.0	133.3	11.3	10.1	10.5	8.8	7.5	7.9
Elmira .....	549.5	564.4	554.9	68.8	48.7	48.9	12.5	8.6	8.8
Nassau—Suffolk .....	39.6	40.3	39.9	4.9	3.3	3.7	12.5	8.2	9.2
New York .....	1,171.6	1,232.0	1,204.3	125.1	87.6	94.2	10.7	7.1	7.8
New York City <sup>2</sup> .....	3,654.4	3,627.3	3,639.0	362.9	361.4	346.2	9.9	10.0	9.5
Poughkeepsie .....	3,117.0	3,054.0	3,080.0	319.0	322.0	301.0	10.2	10.5	9.8
Rochester .....	93.9	97.9	97.6	6.8	5.4	5.7	7.3	5.6	5.9
Syracuse .....	439.7	452.6	448.3	39.0	29.7	32.5	8.9	6.6	7.3
Utica—Rome .....	279.0	291.9	290.1	28.4	20.4	22.4	10.2	7.0	7.7
	133.8	135.0	133.6	16.8	10.9	11.5	12.5	8.0	8.6
<b>NORTH CAROLINA</b>									
Asheville .....	2,542.1	2,652.7	2,622.2	175.3	191.0	143.3	6.9	7.2	5.5
Charlotte—Gastonia .....	77.3	80.9	80.4	5.8	5.6	4.5	7.5	6.9	5.5
Greensboro—Winston-Salem—High Point .....	311.1	327.8	323.5	15.6	16.9	11.3	5.0	5.2	3.5
Raleigh—Durham .....	394.9	407.8	405.2	23.8	23.2	19.2	6.0	5.7	4.7
	252.3	265.8	265.0	10.7	12.5	9.3	4.3	4.7	3.5
<b>NORTH DAKOTA</b>									
Fargo—Moorehead .....	269.0	274.1	278.1	16.2	17.5	16.0	6.0	6.4	5.8
	64.5	68.9	68.6	2.8	3.6	3.0	4.3	5.3	4.3

See footnotes at end of table.



STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	FFB. 1977R	JAN. 1978R	FEB. 1978P	FEB. 1977R	JAN. 1978R	FEB. 1978P	FEB. 1977R	JAN. 1978R	FEB. 1978P
<b>OHIO</b> <sup>2</sup>	4,683.1	4,745.8	4,732.7	440.7	290.8	296.1	9.4	6.1	6.3
Akron	286.9	289.7	287.6	26.7	17.7	18.0	9.3	6.1	6.3
Canton	172.1	170.3	170.2	19.8	11.2	11.3	11.5	6.6	6.6
Cincinnati <sup>1</sup>	596.2	611.4	610.9	45.9	34.6	34.8	7.7	5.7	5.7
Cleveland	881.4	892.3	887.7	69.2	45.9	45.0	7.9	5.1	5.1
Columbus	494.8	502.5	499.1	43.2	25.6	26.0	8.7	5.1	5.2
Dayton	357.2	365.4	363.9	27.5	17.3	18.2	7.7	4.7	5.0
Toledo <sup>1</sup>	348.1	353.2	352.9	34.7	24.1	24.1	10.0	6.8	6.8
Youngstown—Warren	229.8	231.1	230.7	26.6	18.4	20.6	11.6	8.0	8.9
<b>OKLAHOMA</b>	1,181.1	1,228.1	1,235.8	65.1	47.4	56.2	5.5	3.9	4.5
Oklahoma City	348.3	370.7	374.8	18.4	11.7	14.2	5.3	3.2	3.8
Tulsa	281.3	294.3	295.4	15.0	11.7	14.1	5.3	4.0	4.8
<b>OREGON</b>	1,086.4	1,135.2	1,132.2	102.9	73.4	69.2	9.5	6.5	6.1
Eugene—Springfield	113.8	118.6	118.0	11.0	8.1	7.6	9.7	6.8	6.4
Portland <sup>1</sup>	526.8	N.A.	N.A.	44.3	N.A.	N.A.	8.4	N.A.	N.A.
Salem	99.9	105.6	104.9	9.2	7.0	6.0	9.2	6.6	5.7
<b>PENNSYLVANIA</b> <sup>2</sup>	5,034.0	5,119.7	5,138.2	485.9	405.6	392.5	9.7	7.9	7.6
Allentown—Bethlehem—Easton <sup>1</sup>	293.8	295.3	297.3	25.2	19.2	20.0	8.6	6.5	6.7
Altoona	54.3	56.9	56.8	5.2	4.8	4.6	9.5	8.5	8.0
Erie	116.3	119.0	119.4	11.8	8.7	7.9	10.2	7.3	6.7
Harrisburg	201.2	205.4	206.3	13.3	11.8	11.4	6.5	5.8	5.5
Johnstown	104.1	108.3	104.7	11.6	13.9	13.2	11.2	12.8	12.6
Lancaster	158.1	163.1	162.7	11.2	9.5	8.2	7.1	5.8	5.1
Northeast Pennsylvania	266.3	265.1	265.8	31.3	26.7	24.5	11.7	10.1	9.2
Philadelphia <sup>1</sup>	2,028.1	2,032.9	2,037.4	202.5	154.9	152.0	10.0	7.6	7.5
Pittsburgh	942.0	962.6	967.9	86.2	68.4	69.4	9.2	7.1	7.2
Reading	142.4	145.8	147.2	10.9	8.6	8.8	7.7	5.9	6.0
Williamsport	49.8	50.1	50.6	5.7	4.7	4.9	11.5	9.4	9.6
York	152.1	156.6	157.1	13.1	9.8	9.4	8.5	6.3	6.0
<b>RHODE ISLAND</b>	431.9	434.7	431.2	41.7	36.1	40.9	9.7	8.3	9.5
Providence—Warwick—Pawtucket <sup>1</sup>	438.2	441.8	437.2	42.1	36.4	40.1	9.5	8.2	9.2
<b>SOUTH CAROLINA</b>	1,236.8	1,239.7	1,254.1	101.6	82.1	81.2	8.2	6.6	6.5
Charleston—North Charleston	139.8	143.2	144.9	10.8	10.1	9.8	7.7	7.0	6.8
Columbia	160.0	163.4	167.1	10.4	7.5	8.1	6.5	4.6	4.8
Greenville—Spartanburg	247.5	244.4	246.4	16.2	14.4	13.7	6.5	5.0	5.6
<b>SOUTH DAKOTA</b>	294.9	305.3	307.3	13.1	13.7	11.0	4.4	4.5	3.6
Sioux Falls	52.4	56.2	54.9	1.8	2.3	1.6	3.5	4.1	2.8
<b>TENNESSEE</b>	1,850.1	1,905.0	1,889.0	137.8	134.1	118.4	7.4	7.0	6.3
Chattanooga <sup>1</sup>	179.9	185.1	183.3	11.9	13.0	10.7	6.5	7.0	5.8
Knoxville	193.4	197.5	195.0	12.0	10.8	9.7	6.2	5.4	5.0
Memphis <sup>1</sup>	363.5	370.0	367.7	23.1	22.2	20.3	6.3	6.0	5.5
Nashville—Davidson	370.9	383.9	381.5	19.0	19.5	16.9	5.1	5.1	4.4
<b>TEXAS</b> <sup>2</sup>	5,692.9	5,904.9	5,842.8	363.8	324.7	317.7	6.4	5.5	5.4
Amarillo	81.7	85.5	83.9	3.7	3.7	3.5	4.5	4.3	4.1
Austin	220.1	229.5	231.1	10.6	9.1	8.2	4.7	4.0	3.6
Beaumont—Port Arthur—Orange	166.3	167.3	165.0	14.3	12.6	12.5	8.6	7.5	7.6
Corpus Christi	125.4	128.4	127.6	10.9	8.3	8.2	8.7	6.5	6.4
Dallas—Fort Worth	1,298.0	1,346.9	1,332.9	72.9	63.0	63.4	5.5	4.7	4.8
El Paso	165.7	162.4	159.6	23.1	17.0	15.4	13.9	10.4	9.7
Galveston—Texas City	85.0	88.3	86.9	8.3	6.4	6.1	9.7	7.3	7.0
Houston	1,237.7	1,325.6	1,310.2	64.6	60.9	58.0	5.2	4.6	4.4
Lubbock	94.1	99.2	99.0	4.3	4.2	4.3	4.7	4.3	4.3
San Antonio	386.2	398.6	395.2	29.2	27.8	26.6	7.7	7.0	6.7
Waco	73.8	77.4	76.5	4.2	4.0	4.2	5.7	5.2	5.5
Wichita Falls	56.6	60.0	59.6	2.7	2.3	2.5	4.5	3.8	4.3
<b>UTAH</b>	511.5	518.1	510.5	33.4	31.0	28.3	6.5	6.0	5.5
Salt Lake City—Ogden	342.7	348.3	344.0	21.3	19.9	18.1	6.2	5.7	5.2
<b>VERMONT</b>	220.2	234.3	232.8	19.0	17.3	16.8	8.6	7.4	7.2

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	FEB. 1977P	JAN. 1978R	FEB. 1978P	FEB. 1977R	JAN. 1978R	FEB. 1978P	FEB. 1977R	JAN. 1978R	FEB. 1978P
<b>VIRGINIA</b> .....	2,336.6	2,416.9	2,406.7	170.0	164.5	168.0	7.3	6.8	7.0
Lynchburg .....	68.6	71.1	71.0	3.6	4.5	4.7	5.3	6.4	6.7
Newport News—Hampton .....	149.9	154.3	151.1	11.9	11.8	10.7	8.0	7.6	7.1
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	299.6	312.0	308.4	22.1	24.5	24.7	7.4	7.9	8.0
Richmond .....	302.9	316.7	315.1	15.8	13.1	13.9	5.2	4.7	4.4
Roanoke .....	108.6	111.0	110.0	8.7	9.9	10.3	8.1	8.9	9.4
<b>WASHINGTON</b> .....	1,582.6	1,613.2	1,630.7	161.7	121.6	109.7	10.2	7.5	6.7
Seattle—Everett .....	678.4	702.0	708.3	65.6	44.7	39.4	9.7	6.4	5.6
Spokane .....	129.2	129.3	132.0	12.7	8.9	8.0	9.7	6.9	6.1
Tacoma .....	153.4	153.3	154.3	16.7	12.3	11.0	10.7	8.0	7.1
<b>WEST VIRGINIA</b> .....	691.3	N.A.	N.A.	84.7	N.A.	N.A.	12.3	N.A.	N.A.
Charleston .....	110.9	N.A.	N.A.	8.4	N.A.	N.A.	7.0	N.A.	N.A.
Huntington—Ashland <sup>1</sup> .....	115.3	N.A.	N.A.	12.1	N.A.	N.A.	10.5	N.A.	N.A.
Parkersburg—Martinsburg <sup>1</sup> .....	64.3	N.A.	N.A.	7.3	N.A.	N.A.	11.4	N.A.	N.A.
Wheeling <sup>1</sup> .....	77.0	N.A.	N.A.	9.0	N.A.	N.A.	11.0	N.A.	N.A.
<b>WISCONSIN</b> .....	2,152.1	2,189.1	2,187.5	135.2	120.3	120.0	6.3	5.5	5.5
Appleton—Oshkosh .....	134.7	N.A.	N.A.	7.8	N.A.	N.A.	5.7	N.A.	N.A.
Green Bay .....	82.7	N.A.	N.A.	5.1	N.A.	N.A.	6.2	N.A.	N.A.
Kenosha .....	55.9	N.A.	N.A.	8.0	N.A.	N.A.	14.2	N.A.	N.A.
La Crosse .....	42.1	N.A.	N.A.	2.6	N.A.	N.A.	6.2	N.A.	N.A.
Madison .....	167.5	N.A.	N.A.	7.3	N.A.	N.A.	4.3	N.A.	N.A.
Milwaukee .....	695.2	N.A.	N.A.	34.3	N.A.	N.A.	4.9	N.A.	N.A.
Racine .....	86.4	N.A.	N.A.	6.4	N.A.	N.A.	7.4	N.A.	N.A.
<b>WYOMING</b> .....	172.3	186.0	186.3	8.2	7.0	7.3	4.8	3.8	3.9

<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.)

p=preliminary.

r=revised.

N.A.=not available.

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

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

Labor force and unemployment estimates for counties, cities, and other small areas have been prepared for administration of various Federal economic assistance programs and may be ordered from the National Technical Information Service. When ordering, please specify "CETA Area Employment and Unemployment," "State, County, and Selected City Employment and Unemployment;" or "Unemployment Rates for States and Local Governments, Fourth Quarter 1977." A complete set of price schedules and publications is available from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield Virginia, 22161.

# Explanatory Notes

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

## Introduction

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

*Data based on household interviews* are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 56,000 households, representing 614 areas in 1,113 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

*Data based on establishment records* are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The establishment survey is designed to provide industry information on nonagricultural wage and salary employment, average weekly hours, average hourly and weekly earnings, and labor turnover for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of establishments employing over 30 million nonagricultural wage and salary workers. The data relate to all workers, full- or part-time, who received pay during the payroll period which includes the 12th of the month. Based on a somewhat smaller sample, labor turnover data relate to actions occurring during the entire month.

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

Data from these two sources differ from each other because of differences in definition and coverage, sources of information, methods of collection, and estimating procedures. Sampling variability and response errors are additional reasons for discrepancies. The major factors which have a differential effect on levels and trends of the two series are as follows.

### Employment

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

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

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

For a comprehensive discussion of the differences between household and establishment survey employment data, see Gloria P. Green's article "Comparing Employment Estimates from Household and Payroll Surveys," *Monthly Labor Review*, December 1969. Reprints of this article are available upon request from the Bureau of Labor Statistics.

### Hours of work

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

## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

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

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

## COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

*Employment covered by State unemployment insurance programs.* Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. Beginning in January 1972, coverage was expanded to include employees of small firms and selected nonprofit activities who had not been covered previously. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in BLS establishment statistics. Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

## Household data

(A tables)

### COLLECTION COVERAGE

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

These monthly surveys of the population are conducted with a scientifically selected sample designed to represent the civilian noninstitutional population. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. Separate statistics are also collected and published for 14 and 15 year olds. The inquiry relates to activity or status during the calendar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

Inmates of institutions, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumerations and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are included as part of the categories "total noninstitutional population" and "total labor force," are obtained from the Department of Defense.

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

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

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

## CONCEPTS

*Employed persons* comprise (a) all those who during the survey week did any work at all as paid employees, in their own business, profession, or farm, or who worked 15 hours or more as unpaid workers in an enterprise operated by a member of the family, and (b) all those who were not working but who had jobs or businesses from which they were temporarily absent because of illness, bad weather, vacation, labor-management dispute, or personal reasons, whether or not they were paid by their employers for the time off, and whether or not they were seeking other jobs.

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

Included in the total are employed citizens of foreign countries, temporarily in the United States, who are not living on the premises of an Embassy.

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

*Unemployed persons* comprise all persons who did not work during the survey week, who made specific efforts to find a job within the past 4 weeks, and who were available for work during the survey week (except for temporary illness). Also included as unemployed are those who did not work at all, were available for work, and were waiting to be called back to a job from which they had been laid off; or (b) were waiting to report to a new wage or salary job within 30 days.

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

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

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

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

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

The *unemployment rate* represents the number unemployed as a percent of the civilian labor force. This measure can also be computed for groups within the labor force classified by sex, age, marital status, race, etc. The job-loser, job-leaver, reentrant, and new entrant rates are each calculated as a percent of the civilian labor force; the sum of the rates for the four groups thus equals the total unemployment rate.

*Participation rates* represent the proportion of the noninstitutional population that is in the labor force. Two types of participation rates are published. The total labor force participation rate, which is the ratio of the total labor force and the total noninstitutional population; and the civilian labor force participation rate, which is the ratio of the civilian labor force and the civilian noninstitutional population. Participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.

*Employment-population ratios* represent the proportion of the total noninstitutional population that is employed. This measure can also be computed as a ratio of employment and the civilian noninstitutional population.

*Not in labor force* includes all civilians 16 years and over who are not classified as employed or unemployed. These persons are further classified as "engaged in own home housework," "in school," "unable to work" because of long-term physical or mental illness, and "other." The "other" group includes for the most part retired persons, those reported as too old to work, the voluntarily idle, and seasonal workers for whom the survey week fell in an "off" season and who were not reported as unemployed. Persons doing only incidental unpaid family work (less than 15 hours) are also classified as not in the labor force.

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

*Occupation, industry, and class of worker* for the employed apply to the job held in the survey week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours during the survey week. The unemployed are classified according to their last full-time civilian job lasting 2 weeks or more. The occupation and industry groups used in data derived from the CPS household interviews are defined as in the 1970 Census of Population. Information on the detailed categories included in these groups is available upon request.

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

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

For persons working in more than one job, the figures relate to the number of hours worked in all jobs during the week. However, all the hours are credited to the major job.

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

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

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

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

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

*Hispanic origin* refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American or other Hispanic origin or descent. According to the 1970 Census, approximately 96 percent of their population is white.

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

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

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

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

*Poverty areas* classification consists of all Census geographical divisions in which 20 percent or more of the residents were poor according to the 1970 Decennial Census. Persons were classified as poor or nonpoor by using income thresholds adopted by a Federal interagency committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas and, conversely, the areas include many people who are not poor.

The *metropolitan areas* classification consists of the total of all areas encompassed by Standard Metropolitan Statistical Areas (SMSA's). The metropolitan area total is based on the number of SMSA's as defined in the 1970 Decennial Census and does not include any subsequent additions or changes. Nonmetropolitan areas refer to the total of all areas outside SMSA's. The nonmetropolitan total is disaggregated into farm and nonfarm components.

## HISTORIC COMPARABILITY

### Raised lower age limit

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

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

### Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning 1953, as a result of the introduction of data from the 1950 census into the estimation procedure, population levels were raised by about 600,000; labor force, total employment, and agricultural employment by about 350,000, primarily affecting the figures for totals and males; other categories were relatively unaffected; (2) beginning 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force, four-fifths of this in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged.

In addition, beginning 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of about 800,000; labor force and employment totals were raised by a little more than 300,000, and unemployment levels and rates were essentially unchanged. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black and other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black and other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

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

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

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

#### Changes in occupational classification system

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

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

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

Additional information on changes in the occupational classification system of the CPS appears in "Revisions in Occupational Classifications for 1971" and "Revisions in the Current Population Survey" in the February 1971 and February 1972 issues, respectively, of *Employment and Earnings*.

#### Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for eight months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a non-contiguous cluster of six housing units to a usually contiguous cluster of four housing units. The most recent change was introduced in January 1978, when a supplemental sample of housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design.

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

Time period	Number of sample areas <sup>1</sup>	Households eligible		Households visited not eligible <sup>2</sup>
		Interviewed	Not interviewed	
Aug. 1947 to Jan. 1954 .....	68	21,000	500-1,000	3,000-3,500
Feb. 1954 to Apr. 1956 .....	230	21,000	500-1,000	3,000-3,500
May 1956 to Dec. 1959 .....	330	33,500	1,500	6,000
Jan. 1960 to Feb. 1963 .....	333 <sup>3</sup>	33,500	1,500	6,000
Mar. 1963 to Dec. 1966 .....	357	33,500	1,500	6,000
Jan. 1967 to July 1971 .....	449	48,000	2,000	8,500
Aug. 1971 to July 1972 .....	449	45,000	2,000	8,000
Aug. 1972 to Dec. 1977 .....	461	45,000	2,000	8,000
Jan. 1978 to present .....	614	53,500	2,500	9,500

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

<sup>2</sup> These are households which were visited, but were found to

be vacant or otherwise not eligible for interview.

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

## ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. There are no subsequent adjustments to independent benchmark data on labor force, employment, or unemployment. Therefore, revisions of the historical data are not an inherent feature of this statistical program.

The CPS estimation procedure involves weighting the data from each sample person. The basic weight, which is the inverse of the probability of the person being in the sample, is a rough measure of the number of actual persons that the sample person represents. In States supplemented in the 1978 expansion, almost all sample persons within the same sample area have the same basic weight, but the weight may differ across sample areas. The basic weight is the same for almost all sample persons in unsupplemented States. The basic weights are then adjusted for noninterview, and the ratio estimation procedure is applied.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 3 to 5 percent depending on weather, vacations, etc.

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

a. *First-stage ratio estimate.* In the CPS sample, a portion of the 614 sample areas are chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed

to reduce the contribution to the variance resulting from requiring sample areas to represent nonsample areas. Therefore this procedure is not applied to sample areas which represent only themselves. The procedure is applied within each State that contains nonsample areas and takes into account the differences that existed at the time of the 1970 census in the distribution by race and residence of the population in sample areas and the known race-residence distribution in the portions of the State represented by these areas.

b. *Second-stage ratio estimate.* In this stage, the sample proportion in the categories described below are adjusted to the distribution of independent current estimates of the population in the same categories. The second-stage ratio estimate is done in order to increase the reliability of the estimates and is done in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and over for the State. The second step involves "nonwhite" persons only, and is an adjustment to independent estimates of 40-age-sex-race categories across the whole Nation. (The race categories used are black and other minority races.) The third adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates within 68 age-sex-race groups. The entire second-stage ratio estimation procedure is iterated six times, each time beginning at the weights developed the previous time. This iteration ensures that the sample estimates both of State population and of national age-sex-race categories, will be virtually equal to the independent population estimates.

The independent controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation of the trend in the growth of this segment of the population from the April 1, 1970 census through the latest available July 1 estimate, adjusted as a last step to a current estimate of the U.S. population of this group. State estimates by age for July 1 are published annually in *Current Population Reports*, Series P-25. For a description of the methodology used in developing the State total, see Report 640 of that series. Descriptions of the age estimates methodology are available on request from the Chief of the Population Division, U.S. Bureau of the Census, Washington, D.C. 20233.

Prior to January 1974, the independent national controls used for the age-sex-race groups in both the second and third steps of the second-stage ratio estimation procedure were prepared by carrying forward the most recent census data (1970) after taking account of subsequent aging of the population, births, deaths, and migration between the United States and other countries. Beginning



in 1974, the "inflation-deflation" method of deriving independent population controls was introduced into the CPS estimation procedures. These independent controls are prepared by inflating the most recent census counts to include the estimated net census undercount by age, sex, and race, aging this population forward to each subsequent month and later age by adding births and net migration, and subtracting deaths. These post-censal population estimates are then "deflated" to census level to reflect the pattern of net undercount in the most recent census by age, sex, and race. The actual percent change over time in the population in any age group is preserved.

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

#### Rounding of estimates

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

#### Reliability of the estimates

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

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

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

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

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates vary by rotation group. A description of these effects appears in the article "The Effects of Rotation Group Bias on Estimates from Panel Surveys,"

by Barbara A. Bailer, *Journal of the American Statistical Association*, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Overall undercoverage, as compared to the level of the decennial census, is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than for females and larger for black and other races than for whites. Ratio estimation to independent age-sex-race population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls used have not been adjusted for undercoverage in the 1970 census, which was estimated at 2.5 percent of the population, with differentials by age, sex, and race similar to those observed in the CPS.

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

Additional information on nonsampling error in the CPS appears in the paper, "An Error Profile: Employment as Measured by the Current Population Survey," by Camilla Brooks and Barbara Bailer, Proceedings of the Annual Meetings of the American Statistical Association, Social Statistics Section, Chicago, Illinois, August 1977; in the paper "The Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, *Annals of Economic and Social Measurement*, Vol. 2, No. 2, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, U.S. Department of Commerce, Bureau of the Census. This last document includes a comprehensive and up-to-date discussion of various sources of errors, and describes attempts to measure them in the CPS.

**Sampling error.** Since the estimates are based on a sample, they may differ somewhat from the figures that would have been obtained if a complete census had been taken using the same schedules, instructions, and enumerators. The standard error is primarily a measure of sampling variability, that is, of the variation that occurs by chance because a sample rather than the entire population is surveyed. The chances are about 68 out of 100 that an estimate from the survey differs from a complete census figure by less than the standard error. The chances are about 95 out of 100 that the differences would be less than twice the standard error.

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in this report reflect the sample design and estimation procedure in effect prior to the expansion for annual average State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Secondly, instead of computing an individual standard error for each estimate, generalized sets of standard errors were computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of

standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

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

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change over other time periods are subject to higher standard errors. For years prior to 1967, the standard errors must be adjusted due to differences in sample size. For years before 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

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

*Illustration.* Assume that the tables showed that the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate of 12,000,000 is about 150,000. Consequently, the chances are about 68 out of 100 that the sample estimate differs by less than 150,000 from the figure which would have been obtained from a complete count of the number of persons working the given number of hours. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

*Standard errors for rates and percentages.* The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends on both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are not published when the monthly base is less than 75,000 or the annual average base is less than 35,000.

Tables E and F shows generalized standard errors for monthly level and month-to-month change for unemployment rates.

Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentages can be obtained through the use of the standard errors in table G and

the factors in table H. First obtain the standard error from table G for the specific percentage and base. The generalized standard error is then calculated by multiplying the standard error from table G by the appropriate factor from table H. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

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

**Table A. Standard errors of major employment status categories**

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
<i>(In thousands)</i>		
Total, 16 years and over:		
Civilian labor force . . . . .	226	173
Employed . . . . .	239	182
Unemployed . . . . .	112	115
Males, 20 years and over:		
Civilian labor force . . . . .	127	111
Employed . . . . .	138	121
Unemployed . . . . .	70	73
Females, 20 years and over:		
Civilian labor force . . . . .	176	129
Employed . . . . .	174	131
Unemployed . . . . .	70	73
Both sexes, 16-19 years:		
Civilian labor force . . . . .	80	85
Employed . . . . .	85	94
Unemployed . . . . .	57	70
Black and other, 16 years and over:		
Civilian labor force . . . . .	80	61
Employed . . . . .	87	66
Unemployed . . . . .	55	58
Males, 20 years and over:		
Civilian labor force . . . . .	47	41
Employed . . . . .	52	46
Unemployed . . . . .	35	38
Females, 20 years and over:		
Civilian labor force . . . . .	62	48
Employed . . . . .	62	49
Unemployed . . . . .	35	38
Both sexes, 16-19 years:		
Civilian labor force . . . . .	33	37
Employed . . . . .	30	35
Unemployed . . . . .	28	31

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

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

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

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

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

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

(In thousands)

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

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

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

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

Table E. Standard errors of unemployment rates

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

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

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

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

Monthly base of percentages (In thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50	2.03	2.85	4.44	6.12	7.28	8.15	8.83	9.34	9.72	10.19
100	1.43	2.02	3.14	4.32	5.15	5.77	6.24	6.61	6.88	7.21
500	.64	.90	1.41	1.93	2.30	2.58	2.79	2.95	3.07	3.22
1,000	.45	.64	.99	1.37	1.63	1.82	1.97	2.09	2.17	2.28
2,000	.32	.45	.70	.97	1.15	1.29	1.40	1.48	1.54	1.61
4,000	.23	.32	.50	.68	.81	.91	.99	1.04	1.09	1.14
6,000	.19	.26	.41	.56	.66	.74	.81	.85	.89	.93
10,000	.14	.20	.31	.43	.51	.58	.62	.66	.69	.73
20,000	.10	.14	.22	.31	.36	.41	.44	.47	.49	.51
40,000	.07	.10	.16	.22	.26	.29	.31	.33	.34	.36
60,000	.06	.08	.13	.18	.21	.24	.25	.27	.28	.29
80,000	.05	.07	.11	.15	.18	.20	.22	.23	.24	.25
100,000	.05	.06	.10	.14	.16	.18	.20	.21	.22	.23
160,000	.04	.05	.08	.11	.13	.14	.16	.17	.17	.18

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

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

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

# Establishment data

(B, C, and D tables)

## COLLECTION

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

### Federal-State cooperation

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

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

### Shuttle schedules

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

Form BLS 790 provides for entry of data on the number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, payroll and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month. Form DL 1219 provides for the collection of information on the total number of accessions and separations, by type, during the calendar month.

## CONCEPTS

### Industrial classification

Establishments reporting on Form BLS 790 and Form DL 1219 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. This information is collected each year on a supplement to the monthly 790 or 1219 report. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the most important product or activity.

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

### Industry employment

Employment data, except those for the Federal Government refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the

last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

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

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

### Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in contract construction, and nonsupervisory employees in the remaining private nonagricultural components. For Federal Government, hours and earnings relate to all employees, both supervisory and nonsupervisory. Terms are defined below. When the pay period reported is longer than 1 week, figures are reduced to a weekly basis.

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

*Construction workers* include the following employees in the contract construction division: Working supervisors, qualified craft workers, mechanic's apprentices, laborers, etc., whether working at the site of construction or in shops or yards, at jobs (such as pre-cutting and preassembling) ordinarily performed by members of the construction trades.

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

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

*Hours* cover the hours paid for, during the pay period which

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

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

**Gross average hourly and weekly earnings.** Average hourly earnings are on a "gross" basis, reflecting not only changes in basic hourly and incentive wage rates but also such variable factors as premium pay for overtime and late-shift work and changes in output of workers paid on an incentive plan. Shifts in the volume of employment between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments also affect the general earnings averages. Averages for groups and divisions further reflect changes in average hourly earnings for individual industries.

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

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

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

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

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

Since overtime hours are premium hours by definition, gross weekly hours and overtime hours do not necessarily move in the same direction from month-to-month; for example, overtime premiums may be paid for hours in excess of the straight-time workday although less than a full week is worked. Diverse trends at the

industry-group level also may be caused by a marked change in hours for a component industry where little or no overtime was worked in both the previous and current months. In addition, such factors as stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on gross hours.

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

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

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

**Spendable average weekly earnings.** Spendable average weekly earnings in current dollars are obtained by deducting estimated Federal social security and income taxes from average weekly earnings. The amount of income tax liability depends on the number of dependents supported by the worker and his marital status, as well as on the level of his gross income. To reflect these variables, spendable earnings are computed for a worker with no dependents and a married worker with three dependents. The computations are based on gross average weekly earnings for all production or nonsupervisory workers in the industry division excluding other income and income earned by other family members.

The series reflects the spendable earnings of only those workers, with either none or three dependents, whose gross weekly pay approximates the average earnings indicated for all production and nonsupervisory workers. It does not reflect, for example, the average earnings of all married workers with three dependents; such workers, in fact have higher gross average earnings than workers with no dependents.

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

"Real" earnings, or earnings in constant dollars are computed by dividing the earnings averages for the current month by the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and then multiplying by 100. "Real" earnings for months prior to January 1978, use the unrevised CPI-W as the deflator, whereas those for January 1978, forward use the revised CPI-W as the deflator.

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

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

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

#### **Labor turnover**

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

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

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

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

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

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

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

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

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

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

#### **Relationship of labor turnover to employment series**

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

#### **ESTIMATING METHODS**

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

#### **The "link relative" technique**

From a sample composed of establishments reporting for both the previous and current months, the ratio of current month employment to that of the previous month is computed. This is called a link relative. The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these "link relatives." In addition, small bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past experience. Other features of the general procedures are described in table 1. Summary of methods for



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

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
<b>Monthly data</b>		
All employees . . . . .	All employees estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months.	Sum of all employee estimates for component cells.
Production or nonsupervisory workers, women employees . . . . .	All employee estimate for current month multiplied by (1) ratio of production or nonsupervisory workers to all employees in sample establishments for current month, (2) ratio of women to all employees.	Sum of production or nonsupervisory worker estimates, or estimates of women employees, for component cells.
Gross average weekly hours . . . . .	Production or nonsupervisory worker hours divided by number of production or nonsupervisory workers.	Average, weighted by production or nonsupervisory employment, of the average weekly hours for component cells.
Average weekly overtime hours . . . . .	Production worker overtime hours divided by number of production workers.	Average, weighted by production worker employment, of the average weekly overtime hours for component cells.
Gross average hourly earnings . . . . .	Total production or nonsupervisory worker payroll divided by total production or nonsupervisory worker hours.	Average, weighted by aggregate hours, of the average hourly earnings for component cells.
Gross average weekly earnings . . . . .	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates . . . . .	The number of particular actions (e.g., quits) in reporting establishments divided by total employment in those firms. The result is multiplied by 100.	Average, weighted by employment, of the rates for component cells.
<b>Annual average data</b>		
All employees and production or nonsupervisory workers . . . . .	Sum of monthly estimates divided by 12.	Sum of monthly estimates divided by 12.
Gross average weekly hours . . . . .	Annual total of aggregate hours (production or nonsupervisory worker employment multiplied by average weekly hours) divided by annual sum of employment.	Annual total of aggregate hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours . . . . .	Annual total of aggregate overtime hours (production worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime hours for production workers divided by annual sum of employment for these workers.
Gross average hourly earnings . . . . .	Annual total of aggregate payrolls (production or nonsupervisory worker employment multiplied by weekly earnings) divided by annual aggregate hours.	Annual total of aggregate payrolls divided by annual aggregate hours.
Gross average weekly earnings . . . . .	Product of gross average weekly hours and average hourly earnings.	Product of gross average weekly hours and average hourly earnings.
Labor turnover rates . . . . .	Annual aggregate (of each labor turnover action) divided by annual sum of employment.	Annual aggregate (of each labor turnover action) divided by annual sum of employment.

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

**Size and regional stratification**

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

**Benchmark adjustments**

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1974 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by State agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover nearly nine-tenths of the total nonagricultural employment in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

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

Data for all months since the last benchmark to which the series has been adjusted are subject to revision. To provide users of the data with a convenient reference source for the revised data,

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

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

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

the BLS publishes as soon as possible after each benchmark revision a summary volume of employment, hours, earnings, and labor turnover statistics, entitled *Employment and Earnings*, United States.

#### THE SAMPLE

##### Design

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. The universe of establishments is stratified first by industry and then within each industry by size of establishment in terms of employment. For each industry, the number of sample units is distributed among the size class cells on the basis of average employment per establishment in each cell. In practice this is equivalent to distributing the predetermined total number of establishments required in the sample among the cells on the basis of the ratio of employment in each cell to total employment in the industry. Within each noncertainty stratum the sample members are selected at random.

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

In the context of the BLS employment and labor turnover statistics programs, with their emphasis on producing timely data

at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after reports are mailed by respondents, and at a somewhat later date, statistics in considerably greater industrial detail.

##### Coverage

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

##### Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a link relative technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling

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

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

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

<sup>2</sup> National estimates of Federal employment are provided to the BLS by the Civil Service Commission. State and area estimates are based on a sample of 3,200 reports covering about 53 percent of employment in Federal establishments.

and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from

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

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

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

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

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

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

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

improvements in the quality of the benchmark data. Improvements brought about by the most recent expansion in unemployment insurance coverage were the major cause of differences in the March 1973 benchmark adjustments. (See article by Carol M. Utter, "BLS Establishment Estimates Revised to March 1973 Benchmark Levels," in the December 1974 issue.) Table M presents the average percent revisions of the six most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

The hours and earnings estimates for cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors for major industries are presented in table M and for individual industries with the specified number of employees in table N. The chances are about 2 out of 3 that the

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

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

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

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

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

hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

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

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

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 experience of the last 6 years) of differences between final estimates and benchmarks are presented in table N.

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

## STATISTICS FOR STATES AND AREAS

State and area employment, hours, earnings, and labor turnover data are collected and prepared by State agencies in cooperation with BLS. The area statistics relate to metropolitan areas. Definitions for all areas are published each year in the issue of *Employment and Earnings* that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the inside back cover of each issue. These statistics are based on the same establishment reports used by BLS for preparing national estimates. For employment, the sum of the State figures may differ slightly from the equivalent official U.S. totals on a national basis, because some States have more recent benchmarks than others and because of the effects of differing industrial and geographic stratification.

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

## PRODUCTIVITY DATA

Tables C-10, C-11, and C-12 are compiled by the Bureau of Labor Statistics from establishment data and from estimates of compensation and Gross National Product supplied by the U.S. Department of Commerce and the Federal Reserve Board.

### Definition

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

*Output* is the constant dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of labor input, or labor productivity, measure changes in the volume of goods and services produced per unit of labor.

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

*Real compensation per hour* is compensation per hour adjusted to eliminate the effect of changes in the Consumer Price Index.

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

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

### Notes on the data

For the private business sector and the nonfarm business sector, these indexes relate to the Gross Domestic Product less households and institutions, owner-occupied housing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the Gross Domestic Product of nonfinancial corporate business.

Manufacturing data have been revised to reflect revisions in the Federal Reserve Board Index of Industrial Production. Output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hour data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

## State and area unemployment data

(E table)

### FEDERAL-STATE COOPERATIVE PROGRAM

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

hensive Employment and Training Act, the Public Work Employment Act and the Public Works and Economic Development Act.

### ESTIMATING METHODS

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

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

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

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

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

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

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

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

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

U=total entrant unemployment

E=total employment

X=total experienced unemployment

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

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

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

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

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

## Seasonal adjustment

Many economic statistics reflect a regularly recurring seasonal movement which can be estimated on the basis of past experience. By eliminating that part of the change which can be ascribed to usual seasonal variation, it is possible to observe the cyclical and other nonseasonal movements in the series. However, in evaluating deviations from the seasonal pattern—that is, changes in a seasonally adjusted series—it is important to note that seasonal adjustment is merely an approximation based on past experience. Seasonally adjusted estimates have a broader margin of possible error than the original data on which they are based, since they are subject not only to sampling and other errors, but in addition, are affected by the uncertainties of the seasonal adjustment process itself. Seasonally adjusted series for selected labor force and establishment data are published regularly in *Employment and Earnings*.

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

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

adjusting teenage unemployment and those few other unemployment series (e.g., unemployed new entrants) of which teenagers are the exclusive or major part. All other series are adjusted following past procedures.

All civilian labor force and unemployment rate statistics, as well as the major employment and unemployment estimates, are computed by aggregating independently adjusted series. For example, for each of the three major labor force components—agricultural employment, nonagricultural employment and unemployment—data for four sex-age groups (males and females under and over 20 years of age) are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. In order to provide seasonally adjusted total employment and civilian labor force estimates, the appropriate series are aggregated. The unemployment rate for all civilian workers is derived by dividing the estimate for total unemployment (the sum of 4 seasonally adjusted sex-age components) by the civilian labor force (the sum of 12 seasonally adjusted sex-age components).

Revised seasonally adjusted series for major components of the labor force based on data through December 1977, new seasonal factors for the 12 major components of the civilian labor force, and a description of the seasonal adjustment methodology are published in the February 1978 *Employment and Earnings*. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

For establishment data, seasonally adjusted series for all employees, production workers, hours, and earnings, are computed using the *BLS Seasonal Factor Method*. Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted average weekly hours. Average weekly earnings in constant

dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted revised Consumer Price Index for Urban Wage Earners and Clerical Workers (revised CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1967 base. For total private, total good-producing, total private service-producing, trade, manufacturing, and durable and nondurable goods, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1967 base.

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

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

The revised seasonally adjusted series for the establishment data reflect experience through August 1977. Seasonal factors to be used for current adjustment appear in the December 1977 issue of *Employment and Earnings*.

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

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

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## COOPERATING STATE AGENCIES

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

BLS  
Region

IV ALABAMA	-Department of Industrial Relations, Industrial Relations Building, Montgomery 36130
X ALASKA	-Employment Security Division, Department of Labor, P.O. Box 3-7000, Juneau 99802
IX ARIZONA	-Department of Economic Security, P.O. Box 6123, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, P.O. Box 2981, Little Rock 72203
IX CALIFORNIA	-Employment Development Department, P.O. Box 1679, Sacramento 95808 (LAUS and CES).
VIII COLORADO	-Management Services, Department of Labor and Employment, 1210 Sherman Street, Denver 80203
I CONNECTICUT	-Employment Security Division, Labor Department, 200 Folly Brook Boulevard, Wethersfield 06109
III DELAWARE	-Department of Labor, University Plaza Office Complex, Bldg. D, Chapman Rd., Route 273, Newark 19713
III DIST. OF COL.	-Office of Administration and Management Service, D.C. Department of Manpower, Suite 1000, 605 G Street, N. W., Washington 20001
IV FLORIDA	-Department of Commerce, Caldwell Building, Tallahassee 32304
IV GEORGIA	-Department of Labor, 254 Washington Street, S.W., Atlanta 30334
IX HAWAII	-Department of Labor and Industrial Relations, P.O. Box 3680, Honolulu 96811
X IDAHO	-Department of Employment, P.O. Box 35, Boise 83707
V ILLINOIS	-Bureau of Employment Security, 910 South Michigan Street, Chicago 60605
V INDIANA	-Employment Security Division, 10 North Senate Avenue, Indianapolis 46204
VII IOWA	-Department of Job Services, 1000 East Grand Avenue, Des Moines 50319
VII KANSAS	-Division of Employment, Department of Human Resources, 401 Topeka Avenue, Topeka 66603
IV KENTUCKY	-Department of Human Resources, 275 E. Main Street, 2nd Floor West, Frankfort 40601
VI LOUISIANA	-Department of Labor, P.O. Box 44094--Capitol Station, Baton Rouge 70804
I MAINE	-Employment Security Commission, Department of Manpower Affairs, 20 Union Street, Augusta 04330
III MARYLAND	-Department of Human Resources, 1100 North Eutaw Street, Baltimore 21201
I MASSACHUSETTS	-Division of Employment Security, Charles F. Hurley Building, Government Center, Boston 02114
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V MINNESOTA	-Department of Economic Security, 390 North Robert Street, St. Paul 55101
IV MISSISSIPPI	-Employment Security Commission, P.O. Box 1699, Jackson 39205
VII MISSOURI	-Division of Employment Security, Department 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, State House Station, Lincoln 68509
IX NEVADA	-Employment Security Department, P.O. Box 602, Carson City 89713
I NEW HAMPSHIRE	-Department of Employment Security, 32 South Main Street, Concord 03301
II NEW JERSEY	-Department of Labor and Industry, 202 John Fitch Plaza, Trenton 08625
VI NEW MEXICO	-Employment Security Commission, P.O. Box 1928, Albuquerque 87103
II NEW YORK	-Division of Research and Statistics, N.Y. State Department of Labor, State Campus--Building 12, Albany 12201
IV NORTH CAROLINA	-Employment Security Commission, P.O. Box 25903, Raleigh 27611
VIII NORTH DAKOTA	-Employment Security Bureau, P.O. Box 1537, Bismarck 58505
V OHIO	-Division of Research and Statistics, Bureau of Employment Services, 145 S. Front St., Columbus 43216
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X OREGON	-Employment Division, Department of Human Resources, Room 402, 875 Union Street, N.E., Salem 97310
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IV TENNESSEE	-Department of Employment Security, Room 519, Cordell Hull Office Building, Nashville 37219
VI TEXAS	-Employment Commission, TEC Building, 15th and Congress Avenue, Austin 78778
VIII UTAH	-Department of Employment Security, P.O. Box 11249, Salt Lake City 84147
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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 and LTS)
X WASHINGTON	-Employment Security Department, 1007 South Washington Street, Olympia 98501
III WEST VIRGINIA	-Department of Employment Security, State Office Building, 112 California Avenue, Charleston 25305
V WISCONSIN	-Department of Industry, Labor, and Human Relations, P.O. Box 7944, Madison 53707
VIII WYOMING	-Employment Security Commission, P.O. Box 2760, Casper 82601