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**In this issue:  
1979 annual averages**





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

BUREAU OF LABOR STATISTICS  
Janet L. Norwood, Commissioner

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## Calendar of Features

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

### Household data

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

### Establishment data

National annual averages:	
Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employment detail (final)	Mar.
National data adjusted to new benchmarks	Oct. <sup>1</sup>
Revised seasonally adjusted series	Oct. <sup>2</sup>
State and area annual averages	May
Area definitions	May

<sup>1</sup> The issue that introduces new benchmark varies. The October 1979 issue marks the introduction of March 1978 benchmarks.

<sup>2</sup> Revised data introduced October 1979.

# Employment and Earnings

Vol. 27 No. 1 January 1980

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Editors: Gloria P. Green, Gloria P. Goings, Rosalie K. Epstein

## Editors' Note

It is the annual practice of the Bureau of Labor Statistics to recalculate the seasonal adjustment factors for unemployment and other labor force series derived from the Current Population Survey (household survey) to incorporate experience in the most recent year. As a result of the recalculation of seasonal factors, seasonally adjusted data for the past 5 years are subject to revision. The data in tables A-1, A-2, A-33 through A-42, and A-44 through A-53 have been revised to reflect the updated seasonal adjustment factors. Revised monthly data covering the entire 1975-79 revision period for a broader range of labor force series will appear in next month's issue.

This year, the Bureau has introduced two modifications in the seasonal adjustment methodology which are described in the article, "Revision of Seasonally Adjusted Labor Force Series," beginning on page 9 in this issue. The article also gives the new seasonal adjustment factors to be used to calculate the overall unemployment rate for January-June 1980.

## CONTENTS

	Page
List of statistical tables .....	2
Employment and unemployment developments, December 1979 .....	7
Revision of seasonally adjusted labor force series .....	9
Charts .....	14
Statistical tables:	
<b>Not seasonally adjusted—</b>	
Household data .....	26
Quarterly averages .....	65
Establishment data:	
Employment .....	79
Hours and earnings .....	111
Labor turnover .....	142
State and area unemployment data .....	151
<b>Seasonally adjusted series—</b>	
Household data .....	50
Quarterly averages .....	57
Establishment data:	
Employment .....	96
Hours and earnings .....	132
Productivity .....	134
Labor turnover .....	147
<b>Annual averages</b> .....	156
Explanatory notes .....	207

# MONTHLY HOUSEHOLD DATA

Page

## Employment Status

A- 1. Employment status of the noninstitutional population 16 years and over, 1947 to date. . . . .	26
A- 2. Employment status of the noninstitutional population 16 years and over by sex, 1967 to date . . . . .	27
A- 3. Employment status of the noninstitutional population by sex, age, and race . . . . .	28
A- 4. Labor force by sex, age, and race . . . . .	30
A- 5. Employment status of black workers by sex and age . . . . .	32
A- 6. Employment status of the noninstitutional population by race, sex, and age . . . . .	33
A- 7. Employment status of the noninstitutional population 16-21 years of age by race and sex . . . . .	34
A- 8. Full- and part-time status of the civilian labor force by sex, age, and race . . . . .	35
A- 9. Employment status of the noninstitutional population by family relationship . . . . .	36

## Characteristics of the Unemployed

A-10. Unemployed persons by marital status, sex, age, and race . . . . .	36
A-11. Unemployed persons by occupation of last job and sex . . . . .	37
A-12. Unemployed persons by industry of last job and sex . . . . .	37
A-13. Unemployed persons by reason for unemployment, sex, age, and race . . . . .	38
A-14. Unemployed persons by reason for unemployment, duration, sex, and age . . . . .	38
A-15. Unemployed jobseekers by the jobsearch methods used, sex, age, and race . . . . .	39
A-16. Unemployed jobseekers by the jobsearch methods used, sex, and reason for unemployment . . . . .	39
A-17. Unemployed persons by duration of unemployment . . . . .	40
A-18. Unemployed persons by duration, sex, age, race, and marital status . . . . .	40
A-19. Unemployed persons by duration, occupation, and industry of last job . . . . .	41

## Characteristics of the Employed

A-20. Employed persons by sex and age . . . . .	41
A-21. Employed persons by occupation, sex, and age . . . . .	42
A-22. Employed persons by occupation, sex, and race . . . . .	43
A-23. Employed persons by class of worker, age, and sex . . . . .	44
A-24. Employed persons by industry and occupation . . . . .	44
A-25. Employed persons with a job but not at work by reason, pay status, and sex . . . . .	45
A-26. Persons at work by type of industry and hours of work . . . . .	45
A-27. Persons at work 1-34 hours by usual status and reason for working less than 35 hours . . . . .	46
A-28. Nonagricultural workers by industry and full- or part-time status . . . . .	46
A-29. Persons at work in nonagricultural industries by full- or part-time status, sex, age, race, and marital status . . . . .	47
A-30. Persons at work in nonfarm occupations by full- or part-time status and sex . . . . .	48

## Characteristics of 14 and 15 year-olds

A-31. Employment status of 14-15 year-olds by sex and race . . . . .	49
A-32. Employed 14-15 year-olds by sex, class of worker, and occupation . . . . .	49

## Seasonally Adjusted Employment and Unemployment Data

A-33. Employment status of the noninstitutional population by sex and age, seasonally adjusted . . . . .	50
A-34. Full- and part-time status of the civilian labor force, seasonally adjusted . . . . .	51
A-35. Employment status by race, sex, and age, seasonally adjusted . . . . .	51
A-36. Major unemployment indicators, seasonally adjusted . . . . .	52
A-37. Unemployed persons by duration of unemployment, seasonally adjusted . . . . .	52
A-38. Rates of unemployment by sex and age, seasonally adjusted . . . . .	53
A-39. Unemployed persons by reason for unemployment, seasonally adjusted . . . . .	53
A-40. Employed persons by sex and age, seasonally adjusted . . . . .	54
A-41. Unemployed persons by sex and age, seasonally adjusted . . . . .	54
A-42. Employed persons by selected social and economic categories, seasonally adjusted . . . . .	55

## Characteristics of Vietnam-Era Veterans and Nonveterans

A-43. Employment status of male Vietnam-era veterans and nonveterans by age . . . . .	56
---	----

# 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 .....	57
A-45. Full- and part-time status of the civilian labor force by sex and age, seasonally adjusted .....	58
A-46. Employment status by race, sex, and age, seasonally adjusted .....	59
A-47. Major unemployment indicators, seasonally adjusted .....	60
A-48. Unemployed persons by duration of unemployment, seasonally adjusted .....	61
A-49. Rates of unemployment by sex and age, seasonally adjusted .....	61
A-50. Unemployed persons by reason for unemployment, seasonally adjusted .....	62
A-51. Employed persons by sex and age, seasonally adjusted .....	62
A-52. Employed persons by selected social and economic categories, seasonally adjusted .....	63

## 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 .....	64
A-54. Job desire of persons not in labor force and reasons for not seeking work by age and sex .....	65
A-55. Job desire of persons not in labor force and reasons for not seeking work by age, race, and sex .....	66
A-56. Persons not in labor force who desire work but think they cannot get jobs by age, race, sex, and detailed reason .....	66
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 .....	67
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 .....	67

## Race and Hispanic Origin Data

A-59. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin .....	68
A-60. Employment status of persons of Mexican, Puerto Rican, and Cuban origin by sex and age .....	69
A-61. Employed persons by selected social and economic categories, race, and Hispanic origin .....	70
A-62. Employed persons of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories .....	71
A-63. Employed persons by sex, age, race, and Hispanic origin .....	72
A-64. Rates of unemployment by sex, age, race, and Hispanic origin .....	72
A-65. Unemployed persons by duration of unemployment, race, and Hispanic origin .....	73
A-66. Unemployed persons by reason for unemployment, race, and Hispanic origin .....	73

## Vietnam-Era Veterans and Nonveterans Data

A-67. Employment status of male Vietnam-era veterans and nonveterans by age .....	74
A-68. Employment status of male Vietnam-era veterans and nonveterans 25 to 39 years by age, race, and Hispanic origin .....	74

## Metropolitan-nonmetropolitan and Poverty-nonpoverty Area Data

A-69. Employment status of the population in metropolitan-nonmetropolitan areas by sex, age, and race .....	75
A-70. Employment status of the population in poverty and nonpoverty areas by race .....	76
A-71. Unemployment rates for selected labor force groups in poverty and nonpoverty areas by sex, age, and race .....	76

## Family Relationship Data

A-72. Unemployed persons by family relationship and presence of employed family members .....	77
A-73. Employed persons by family relationship and presence of additional employed family members .....	78

# MONTHLY ESTABLISHMENT DATA

Page

## Employment—National

B- 1. Employees on nonagricultural payrolls, by industry division, 1920 to date .....	79
B- 2. Employees on nonagricultural payrolls, by industry .....	80
B- 3. Women employees on nonagricultural payrolls, by industry .....	89
B- 4. Employees on nonagricultural payrolls, by industry, seasonally adjusted .....	96
B- 5. Women employees on nonagricultural payrolls, by industry, seasonally adjusted .....	97
B- 6. Production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted .....	98
B- 7. Indexes of diffusion: Percent of industries in which employment increased .....	99

## Employment—State and Area

B- 8. Employees on nonagricultural payrolls for States and selected areas, by industry division .....	100
---	-----

## Hours and Earnings—National

C- 1. Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, 1959 to date .....	111
C- 2. Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, by industry .....	112
C- 3. Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government .....	128
C- 4. Average hourly earnings excluding overtime of production workers on manufacturing payrolls, by industry .....	128
C- 5. Gross and spendable average weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, in current and 1967 dollars .....	129
C- 6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers on private nonagricultural payrolls .....	130
C- 7. Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted .....	132
C- 8. Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted .....	133
C- 9. Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted .....	134
C-10. Hours of wage and salary workers in nonagricultural establishments, by industry division .....	134
C-11. Indexes of output and compensation per hour, unit costs, and prices, private business sector, seasonally adjusted .....	135
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 .....	136

## Hours and Earnings—State and Area

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas .....	137
---	-----

## Labor Turnover—National

D- 1. Labor turnover rates in manufacturing, 1969 to date .....	142
D- 2. Labor turnover rates, by industry .....	143
D- 3. Labor turnover rates in manufacturing, 1969 to date, seasonally adjusted .....	147

## Labor Turnover—State and Area

D- 4. Labor turnover rates in manufacturing for selected States and areas .....	148
---	-----

# MONTHLY STATE AND AREA UNEMPLOYMENT DATA

E- 1. Labor force and unemployment by State and selected metropolitan areas .....	151
---	-----

# ANNUAL AVERAGES—HOUSEHOLD DATA

Page

## Employment Status

1. Employment status of the noninstitutional population, 1929 to date .....	156
2. Employment status of the noninstitutional population 16 years and over by sex, 1949 to date .....	157
3. Employment status of the noninstitutional population by sex, age, and race .....	158
4. Labor force by sex, age, and race .....	160
5. Employment status of black workers by sex and age .....	162
6. Employment status of the noninstitutional population by race, sex, and age .....	163
7. Employment status of the noninstitutional population 16-21 years of age by race and sex .....	164
8. Full- and part-time status of the civilian labor force by sex, age, and race .....	165
9. Employment status of the noninstitutional population by family relationship .....	166

## Characteristics of the Unemployed

10. Unemployed persons by marital status, sex, age, and race .....	166
11. Unemployed persons by occupation of last job and sex .....	167
12. Unemployed persons by industry of last job and sex .....	167
13. Unemployed persons by reason for unemployment, sex, age, and race .....	168
14. Unemployed persons by reason for unemployment, duration, sex, and age .....	168
15. Unemployed jobseekers by the jobsearch methods used, sex, age, and race .....	169
16. Unemployed jobseekers by the jobsearch methods used, sex, and reason for unemployment .....	169
17. Unemployed persons by duration of unemployment .....	170
18. Unemployed persons by duration, sex, age, race, and marital status .....	170
19. Unemployed persons by duration, occupation, and industry of last job .....	171

## Characteristics of the Employed

20. Employed persons by sex and age .....	171
21. Employed persons by occupation, sex, and age .....	172
22. Employed persons by occupation, sex, and race .....	173
23. Employed persons by detailed occupation, sex, and race .....	174
24. Employed persons by class of worker, age, and sex .....	176
25. Employed persons by industry and occupation .....	176
26. Employed persons in nonagricultural industries by class of worker and sex .....	177
27. Employed persons by industry, occupation, and sex .....	178
28. Employed persons by industry, occupation, and race .....	179
29. Employed persons in nonagricultural industries by sex, age, and race .....	180
30. Employed persons by detailed industry, sex, and race .....	181
31. Employed persons with a job but not at work by reason, pay status, and sex .....	183
32. Persons at work by type of industry and hours of work .....	183
33. Persons at work 1-34 hours by usual status and reason for working less than 35 hours .....	184
34. Nonagricultural workers by industry and full- or part-time status .....	184
35. Persons at work in nonagricultural industries by full- or part-time status, sex, age, race, and marital status .....	185
36. Persons at work in nonfarm occupations by full- or part-time status and sex .....	186

## Characteristics of 14 and 15 year olds

37. Employment status of 14-15 year-olds by sex and race .....	187
38. Employed 14-15 year-olds by sex, class of worker, and occupation .....	187

## Persons Not in Labor Force

39. Job desire of persons not in labor force and reasons for not seeking work by age and sex .....	188
40. Job desire of persons not in labor force and reasons for not seeking work by age, race, and sex .....	189
41. Persons not in labor force who desire work but think they cannot get jobs by age, race, sex, and detailed reason .....	189
42. 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 .....	190
43. 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 .....	190

# ANNUAL AVERAGES—HOUSEHOLD DATA—Continued

Page

## Race and Hispanic Origin Data

44. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin .....	191
45. Employment status of persons of Mexican, Puerto Rican, and Cuban origin by sex and age .....	192
46. Employed persons by selected social and economic categories, race, and Hispanic origin .....	193
47. Employed persons of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories .....	194
48. Employed black and Hispanic origin workers by occupation .....	195
49. Employed black and Hispanic origin workers by industry .....	195
50. Employed persons by sex, age, race, and Hispanic origin .....	196
51. Rates of unemployment by sex, age, race, and Hispanic origin .....	196
52. Unemployed persons by duration of unemployment, race, and Hispanic origin .....	197
53. Unemployed persons by reason for unemployment, race, and Hispanic origin .....	197
54. Job desire of black and Hispanic origin workers not in the labor force and reasons for not seeking work by age and sex .....	198

## Vietnam-Era Veterans and Nonveterans Data

55. Employment status of male Vietnam-era veterans and nonveterans by age .....	199
56. Employment status of male Vietnam-era veterans and nonveterans 25 to 39 years by age, race, and Hispanic origin .....	199

## Metropolitan-nonmetropolitan and Poverty-nonpoverty Area Data

57. Employment status of the population in metropolitan-nonmetropolitan areas by sex, age, and race .....	200
58. Employment status of the population in poverty and nonpoverty areas by race .....	201
59. Unemployment rates for selected labor force groups in poverty and nonpoverty areas by sex, age, and race .....	201

## Family Relationship Data

60. Unemployed persons by family relationship and presence of employed family members .....	202
61. Employed person by family relationship and presence of additional employed family members .....	203

# ANNUAL AVERAGES—ESTABLISHMENT DATA

## Employment—National

1. Employees on nonagricultural payrolls by industry and major manufacturing group .....	204
2. Production or nonsupervisory workers on private nonagricultural payrolls by industry division and major manufacturing group .....	205

## Hours and Earnings—National

3. Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by industry division and major manufacturing group .....	206
---	-----



# Employment and Unemployment Developments, December 1979

Employment rose in December and unemployment was virtually unchanged. The Nation's unemployment rate was 5.9 percent, little different from the November rate of 5.8 percent and similar to those which have prevailed since August 1978.

Total employment—as measured by the monthly survey of households—rose by 300,000 to 97.9 million. Over the past year, total employment has increased by 2.1 million.

Nonfarm payroll employment—as measured by the monthly survey of establishments—advanced 315,000 over the month to 90.4 million. Payroll jobs increased by 2.3 million since December 1978.

## Unemployment

The December unemployment rate, 5.9 percent, and the number of unemployed persons, 6.1 million, were about the same as in the previous month. Since August 1978, the jobless rate has fluctuated within the narrow band of 5.7 to 5.9 percent as revised, based on updated seasonal adjustment factors. See article beginning on page 9.

The December unemployment rates for adult men (4.2 percent), adult women (5.7 percent), and teenagers (16.0 percent) were virtually the same as in November. Jobless rates for whites (5.1 percent) and blacks (11.3 percent) and most other worker groups were also at or near the levels which have prevailed over the past several months. (See table A-36.)

Although unemployment has remained steady in recent months, the number of nonagricultural workers on part-time schedules for economic reasons—a group analysts sometimes refer to as the partially unemployed—has increased from 3.2 million in September to 3.5 million in December. (See table A-42.)

## Total employment and the labor force

Total employment advanced by 300,000 in December to 97.9 million, returning the employment-population ratio to its high of 59.4 percent first reached in July. Over the past year, total employment has increased by 2.1 million, with increases for both whites and blacks about proportionate to their share of the population. (See table A-33.)

The civilian labor force totaled 104.0 million in December, up 350,000 from November and nearly 2.3 million

from December a year ago. Women accounted for the bulk of these increases. The overall civilian labor force participation rate was 63.9 percent in December, equaling its previous high recorded in September.

## Discouraged workers

Discouraged workers are those 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 unemployed. These data are published on a quarterly basis.

The number of discouraged workers, at 740,000, was little changed both from the previous quarter and over the past year. Just over three-fifths of this number cited job-market factors as the reason for their discouragement. (See table A-53.)

## Industry payroll employment

Nonfarm payroll employment rose by 315,000 in December to 90.4 million. Over the past year, payroll employment grew 2.3 million. In contrast to recent months in which job growth had been concentrated in the service-producing industries, the December employment growth was marked by gains in both the goods- and the service-producing sectors. (See table B-4.)

Employment increased by 170,000 in the goods-producing sector, reversing the downward trend of the past 4 months and returning employment to near its July level. Manufacturing employment rose by 110,000, with durable and nondurable goods industries contributing 65,000 and 45,000 additional jobs, respectively. Electrical and transportation equipment accounted for most of the growth in durable goods, each rising by 25,000. Gains in nondurable goods industries were somewhat more widespread. Elsewhere in the goods sector, employment in construction and mining rose by 45,000 and 15,000, respectively.

Jobs in the service-producing sector grew by 145,000, continuing the pattern of long-term growth. The largest gain took place in the services industry (70,000), while increases also occurred in government (50,000) and finance (30,000). Employment in trade and transportation and public utilities remained at essentially the November levels.

## Hours

The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was 35.7 in December, unchanged from November. Manufacturing hours advanced by 0.2 to 40.3 hours but remained 0.3 hour below the first quarter level. Factory overtime edged up 0.1 to 3.3 hours, after holding at 3.2 hours in the August-November period. (See table C-7.)

The index of aggregate weekly hours rose 0.5 percent in December to 126.9 (1967=100), entirely the result of the rise in employment. The index was up 2.2 percent over the year. (See table C-8.)

## Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls rose 0.9 percent in December and were 7.9 percent above the December 1978 level (seasonally adjusted). Average weekly earnings also rose 0.9 percent in December and were up 7.6 percent over the year.

Before adjustment for seasonality, average hourly earnings rose 4 cents in December to \$6.38, 47 cents above December 1978; average weekly earnings were \$229.04, up \$3.34 from November and \$15.69 over the year. (See tables C-1 and C-9.)

## The Hourly Earnings Index

The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 239.1 (1967=100) in December, 0.8 percent higher than in November. The Index was 8.2 percent above December a year ago. In dollars of constant purchasing power, the Index decreased

4.1 percent during the 12-month period ended in November. (See table C-9.)

## Over-the-year developments

The Nation's job situation in 1979 was characterized by a slowdown in the rate of employment and labor force expansion compared with recent years. Growth in these two labor market measures, while still high by historical standards at over 2 million persons each, was nevertheless well below the pace of the previous 3 years. The unemployment rate showed little movement between late 1978 and late 1979.

There were no dramatic over-the-year changes in the overall unemployment picture. However, the unemployment rate for adult men, which is typically more sensitive to cyclical movements, registered a small rise. The unemployment rate in manufacturing was up almost a point. In addition, the number of unemployed persons on layoff at year-end was nearly a quarter of a million above the level of a year earlier, and the number of persons working part time for economic reasons increased by about 400,000.

While adult women have comprised a large proportion of the labor force growth in the past few years, this pattern was even more dramatic in 1979, when they accounted for two-thirds of the expansion in both labor force and employment.

Nonfarm payroll employment also increased by more than 2 million in 1979. The service-producing sector accounted for more than three-quarters of the overall gain. Manufacturing employment showed little over-the-year growth, while employment increases were strong in construction and mining as well as in several of the service-producing industries.

# Revision of Seasonally Adjusted Labor Force Series

\*Robert J. McIntire

At the end of each calendar year, the Bureau of Labor Statistics revises the seasonal adjustment factors for employment, unemployment, and other labor force series derived from the Current Population Survey (CPS). The inclusion of more recent data provides improved estimates of seasonality for the period revised. This year's revisions reflect data through December 1979 and also introduce two notable improvements in the seasonal adjustment methodology—the use of ARIMA (Auto-Regressive Integrated Moving Average) models and a 6-month updating cycle for seasonal factors.

Revised data for many of the major seasonally adjusted labor force series were published in the news release on the December 1979 employment situation, issued on January 11 (USDL 80-2). Data for the 13 most recent months and quarters for many more of the revised series appear in this issue of *Employment and Earnings*. In addition, this issue provides the new seasonal factors for the first 6 months of 1980 for the 12 component series used in the computation of the seasonally adjusted overall unemployment rate. The factors for the last 6 months of 1980 will be estimated in early July based on data through June 1980, and will be published in the July issue of this publication. Next month's issue will contain the historical revisions covering the period 1975-79 for a few hundred of the most demanded labor force series. These revised data replace the revisions published in the February 1979 issue for the years 1975-1978 and replace the seasonally adjusted estimates for 1979 published during the past year. Seasonally adjusted data for 1974 and previous years were not subject to further revision.

The combined effects of including the 1979 data and introducing the new methodology led to only minor revisions in most labor force series, particularly in the seasonally adjusted overall unemployment rate during 1979. As can be observed in table 1, the revised rate differs from the originally published rate by 0.1 percentage

point in 3 months of 1979 and is identical in the other 9 months. Of course, the levels of employment and unemployment which underlie the rates differ in each of the 12 months, but the differences are sufficiently small so that the effect on the unemployment rate, rounded to one decimal place, is minimal.

Table 1. Seasonally adjusted unemployment rates, 1979

Month	As published during 1979	As revised
January .....	5.8	5.8
February .....	5.7	5.7
March .....	5.7	5.7
April .....	5.8	5.8
May .....	5.8	5.8
June .....	5.6	5.7
July .....	5.7	5.7
August .....	6.0	5.9
September .....	5.8	5.8
October .....	6.0	5.9
November .....	5.8	5.8
December .....	<sup>1</sup> 5.9	5.9

<sup>1</sup> This value reflects use of the factors originally generated for December in last year's revision cycle. That is, it shows what the value would have been if those factors had actually been used. The published data for December incorporated this year's revision.

The smoothing typically effected by successful seasonal adjustment is noticeable in the 1979 revisions of the unemployment rate. The 3 months in which revised data differed from data originally published—June, August, and October—were those in which the rate had been furthest away from the average for 1979 (5.8 percent). The revisions moved these months toward that average. It had seemed throughout the year that the labor force situation was stable in spite of the occasional slight ups and downs in the overall unemployment rate. The revised seasonally adjusted data help to confirm that analysis.

\* Robert J. McIntire is an economist in the Office of Current Employment Analysis, Bureau of Labor Statistics.

**Table 2. Current seasonal adjustment factors for the 12 major labor force components, January-June 1980**

Procedure and series	January	February	March	April	May	June
<b>Multiplicative Adjustment</b> (Divide factor into original value)						
<b>Agricultural employment:</b>						
Males, 20 years and over .....	0.905	0.909	0.926	0.972	1.016	1.088
Females, 20 years and over .....	0.754	0.748	0.809	0.932	1.031	1.274
Males, 16-19 years .....	0.632	0.635	0.737	0.895	1.038	1.490
Females, 16-19 years .....	0.615	0.506	0.636	0.676	0.867	1.631
<b>Nonagricultural employment:</b>						
Males, 20 years and over .....	0.989	0.987	0.990	0.996	1.000	1.009
Females, 20 years and over .....	1.000	1.004	1.010	1.006	0.999	0.984
<b>Unemployment:</b>						
Males, 20 years and over .....	1.207	1.233	1.165	0.997	0.905	0.921
Females, 20 years and over .....	1.050	1.057	0.991	0.917	0.903	1.002
<b>Additive Adjustment</b> (Subtract factor from original value)						
<b>Nonagricultural employment:</b>						
Males, 16-19 years .....	-356	-442	-358	-247	-122	554
Females, 16-19 years .....	-266	-252	-226	-203	-177	288
<b>Unemployment:</b>						
Males, 16-19 years .....	8	54	12	-91	-156	261
Females, 16-19 years .....	-39	-80	-70	-108	-72	312

### Adjustment methods and procedures

For the past several years, the Census Bureau's X-11 method<sup>1</sup> has been used for seasonal adjustment of the labor force series. The new method used for the current revisions is an extension of the X-11 method called X-11 ARIMA.<sup>2</sup> Its use for seasonal adjustment of labor force data at BLS is consistent with the recommendations in the recent final report of the National Commission on Employment and Unemployment Statistics.<sup>3</sup>

The BLS has run extensive tests with the X-11 ARIMA method in preparation for this year's revisions. These tests have indicated that X-11 ARIMA performs current adjustment with significantly less error than the X-11 alone. The principal meaning of "significantly less error" in this context is that the initial seasonally adjusted estimates are closer to later intermediate and final revised estimates with X-11 ARIMA than with X-11 alone. Because ARIMA models are used to extend the data series and because of the nature of the moving averages used in the X-11 part of the process, the most significant differences between the results of the two methods tend to occur in the last 6 months of the actual

data series and in the seasonal factors projected for the subsequent months. This tendency is particularly marked (and valuable) when a turning point in a series occurs during the last 6 months. Differences in historical revisions tend to become relatively smaller as one moves back in time through the period revised. The differences between the methods may also be small during recent months if the series during that period follow

<sup>1</sup> The X-11 method is described in *X-11 Variant of the Census Method II Seasonal Adjustment Program*, by Julius Shiskin, Alan Young, and John Musgrave (Technical Paper No. 15, Bureau of the Census, 1967).

<sup>2</sup> The X-11 ARIMA program was developed by the Seasonal Adjustment and Time Series Staff of Statistics Canada, under the direction of Estela Bee Dagum. Ms. Dagum and her staff have been very helpful to BLS in the conversion to X-11 ARIMA. The method is described in *The X-11 ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum (Statistics Canada Catalogue No. 12-564E, September 1979).

<sup>3</sup> National Commission on Employment and Unemployment Statistics, *Counting the Labor Force* (Washington, D.C., 1979).

a fairly stable pattern, as was the case for the major labor force components in 1979. For example the officially revised overall unemployment rates for the months of 1979 are identical to what the revised results would have been even under the old method of seasonal adjustment using X-11 alone, since the differences between the results for the underlying levels of employment and unemployment are fairly small.

The X-11 ARIMA method provides improved current estimates by allowing recent observations, especially the last 6 months, to weigh more heavily in the estimates of current and recent seasonal factors than was the case with the X-11 alone. The method provides this improvement through the use of ARIMA models to extend the data series by 12 months at each end. The availability of ARIMA-projected values for 1980 for the seasonal adjustment estimation process at the end of 1979 is the key to improved current estimates.

ARIMA projections are based only on the past experience observed in a series itself. ARIMA models have proven to have good properties for projecting or extrapolating a large class of time series, particularly in a seasonal adjustment context, since the extrapolations tend to track intra-year movements quite well. The ARIMA models in the X-11 ARIMA program used to seasonally adjust the labor force series are of the Box and Jenkins type.<sup>4</sup> They can generally be described with the notation

#### (p,d,q)(P,D,Q) TRANSFORMATION

where:

- (1) p is the number of regular (non-seasonal) auto-regressive parameters
- (2) d is the number of regular differences
- (3) q is the number of regular moving average parameters
- (4) P is the number of seasonal auto-regressive parameters
- (5) D is the number of seasonal differences
- (6) Q is the number of seasonal moving average parameters
- (7) TRANSFORMATION may be NONE, LOG, or POWER(n).

While the lettered elements within the parentheses of the model specifications can theoretically take on many values, in practice only the values 0, 1, or 2 tend to be useful, which still leaves quite a few possible combinations.

For each labor force series which has been extended based on an ARIMA model, the model has

been specifically chosen from the possible combinations as well suited to the particular series, based on a set of established criteria. A model which meets those criteria essentially: (1) fits the series well; (2) has low average forecasting errors in the last 3 years prior to the projected year; and (3) produces residuals (the differences between the observed values and the values forecast by the model) which follow a basically random pattern. ARIMA models have been identified for 154 of the 222 labor force series which were directly seasonally adjusted at the end of 1979, including all 12 major labor force components, the models for which are identified in table 3. The remaining 68 series for which models have not yet been identified were simply adjusted with the X-11 part of the program only, the same way they have been adjusted in the past. The BLS will pursue an ongoing program of testing and evaluation of ARIMA models for all 222 series, plus any series that may be subsequently selected for seasonal adjustment.

Table 3. ARIMA models for the 12 major labor force components, 1980

Series	Model	Transformation
Agricultural employment:		
Males, 20 years and over . . .	(0,1,1) (0,1,1)	NONE
Females, 20 years and over . .	(0,1,2) (0,1,1)	LOG
Males, 16-19 years . . . . .	(0,1,2) (0,1,1)	NONE
Females, 16-19 years . . . . .	(2,0,1) (0,1,1)	NONE
Nonagricultural employment:		
Males, 20 years and over . . .	(0,1,1) (0,1,1)	LOG
Females, 20 years and over . .	(0,1,1) (0,1,1)	LOG
Males, 16-19 years . . . . .	(0,1,1) (0,1,1)	NONE
Females, 16-19 years . . . . .	(0,1,1) (0,1,1)	NONE
Unemployment:		
Males, 20 years and over . . .	(0,2,2) (0,1,1)	LOG
Females, 20 years and over . .	(0,2,2) (0,1,1)	LOG
Males, 16-19 years . . . . .	(0,1,1) (0,1,1)	NONE
Females, 16-19 years . . . . .	(2,0,2) (0,1,1)	LOG

The procedures used for adjusting the labor force series within the X-11 part of the process are the same as those followed for the last 2 years. The X-11 method assumes that the original series is either the product or the sum of three

<sup>4</sup> This presentation provides readers with some insight into the models identified for the major components shown in table 3. For more detailed discussion of ARIMA models, refer to the previously cited Dagum (1979) and to: Box and Jenkins, *Time Series Analysis Forecasting and Control* (San Francisco, Holden Day 1970); Granger and Newbold, *Forecasting Economic Time Series* (New York, Academic Press, 1977).

components—trend-cycle, seasonal and irregular. The method uses a ratio-to-moving-average approach to estimate the components. The seasonally adjusted series are computed by dividing each month's original value by the corresponding seasonal factor if the multiplicative model was specified or by subtracting that factor from the original value if the additive model was specified.

Of the 12 major labor force components, the 4 teenage unemployment and nonagricultural employment components were adjusted using the additive adjustment model, and the others were adjusted with the multiplicative model. Of all 222 adjusted series, 39 series, primarily involving teenage employment and unemployment, were adjusted with the additive model. As with the ARIMA models, the selection of these seasonal adjustment models is subject to an ongoing program of testing and evaluation.

To correct for the effects of the sudden large rise in adult male unemployment which occurred around the end of 1974, a "prior adjustment" to the major component series for unemployed men 20 years and over was introduced 2 years ago and is retained in the current procedures. It was discussed in some detail in the February 1978 issue of *Employment and Earnings*. This adjustment is carried out after ARIMA extrapolation but before actual seasonal adjustment by multiplying all values of the extended series prior to November 1974 by a constant of 1.5. While this adjustment has a negligible effect on current factors and recent revisions, it still has significant impact on the earliest years being revised, particularly 1975 and 1976.

For most of the 222 directly adjusted labor force series, the new seasonally adjusted estimates are based on data for the period January 1967 through December 1979. Some of the adjusted series, however, are not available as far back in time. In those cases, the span of available data was used.

### **Aggregation procedures**

The BLS maintains and publishes several hundred seasonally adjusted labor force time series in addition to the 222 directly adjusted series discussed above. These additional series are produced by arithmetically combining or aggregating the directly adjusted series. For example, the seasonally adjusted levels of total unemployment, employment, and civilian labor force, and the seasonally adjusted unemployment rate, are all produced by aggregation of the seasonally ad-

justed results for the 12 major labor force component series. The seasonally adjusted level of total unemployment is the sum of the seasonally adjusted levels of unemployment for the 4 sex-age groups—men and women 16-19, and men and women 20 years and over. Seasonally adjusted employment is the sum of the seasonally adjusted levels of employment for 8 sex-age-industry groups—men and women 16-19, and men and women 20 years and over, employed in nonagricultural and agricultural industries. The seasonally adjusted civilian labor force is the sum of all 12 components. Finally, the seasonally adjusted overall unemployment rate is calculated by taking the total seasonally adjusted unemployment level as a percent of the total seasonally adjusted civilian labor force.

### **Alternative seasonal adjustment procedures**

Research continues at BLS and elsewhere on further ways to improve the procedures for seasonally adjusting important economic time series. One of the potential ways which has been seriously considered is concurrent adjustment, which involves adjusting the data series each month as the latest observations become available. It has the advantage of incorporating all of the known actual behavior of the series into the computation of each month's factors, as opposed to using extrapolated or projected factors as in the new and old official procedures. However, the concurrent approach also has some disadvantages, the principal one being that seasonal factors cannot be published in advance. Since the BLS perceives that prior publication of factors enhances public confidence in the data and is important to users of the labor force data, this disadvantage is presently viewed as outweighing the potential technical advantages of concurrent adjustment and makes this approach less desirable as an official procedure than the new 6-month factor updating cycle being initiated this year. This 6-month cycle will produce better factors for the last 6 months of the year than the old 12-month cycle would have, since the computation of those factors reflects more of the actual behavior of the series and it also still allows prior publication of factors.

The BLS does compute several unofficial seasonally adjusted unemployment rate series based on alternate approaches, including concurrent adjustment with X-11 ARIMA. These alternative rates are issued in a table which is released monthly with the testimony of the BLS Commissioner to the Joint Economic Committee.

**Availability of revised series**

Data for any of the several hundred seasonally adjusted labor force series may be obtained from the BLS upon request. Inquiries should be addressed to the Division of Employment and Unemployment Analysis, Office of Current Employment Analysis, Bureau of Labor Statistics, Washington, D.C. 20212.

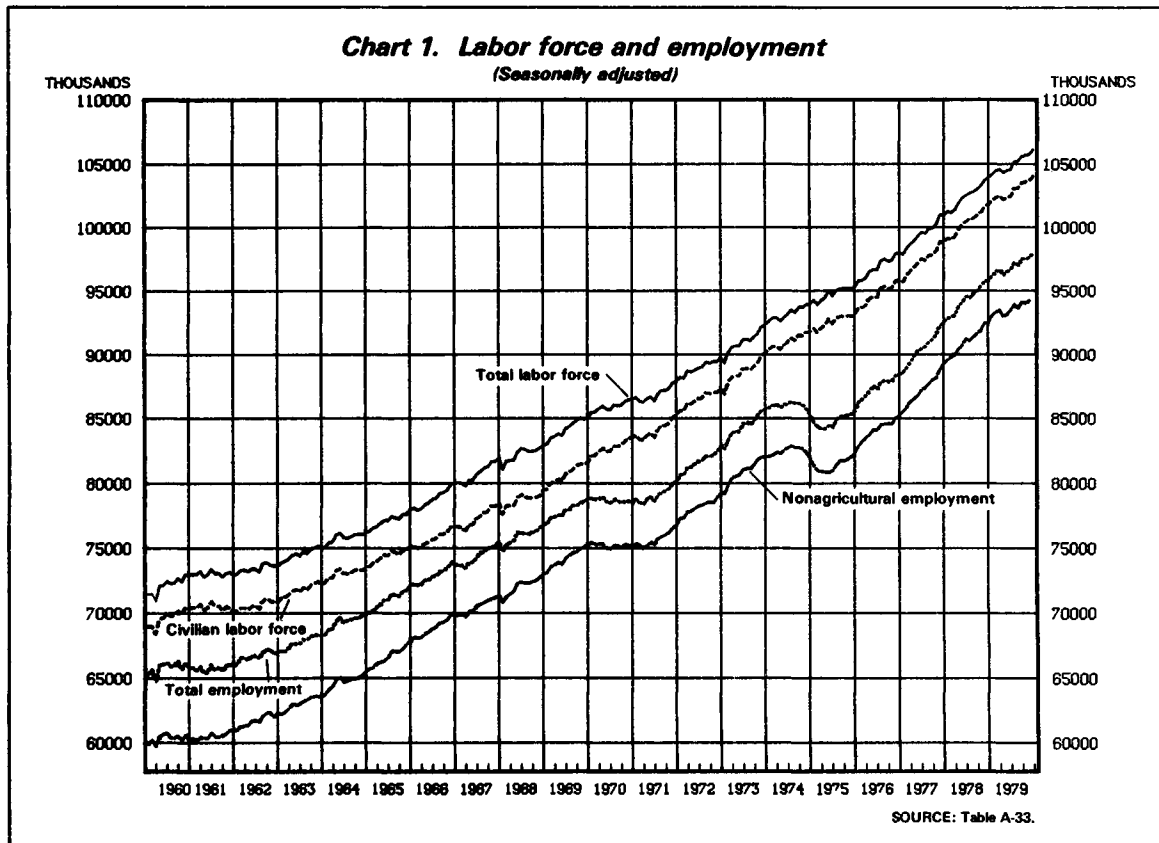
These series and many more are maintained in the BLS data bank known as LABSTAT, from

which series may be extracted in machine readable form. Labor force series in LABSTAT are updated monthly, and the seasonally adjusted revisions are incorporated annually at the time of their release. Inquiries concerning machine-readable files of labor force data or the seasonal adjustment methodology discussed in this article should be addressed to the Data Services Group, Office of Current Employment Analysis, Bureau of Labor Statistics, Washington, D.C. 20212.

## CHARTS

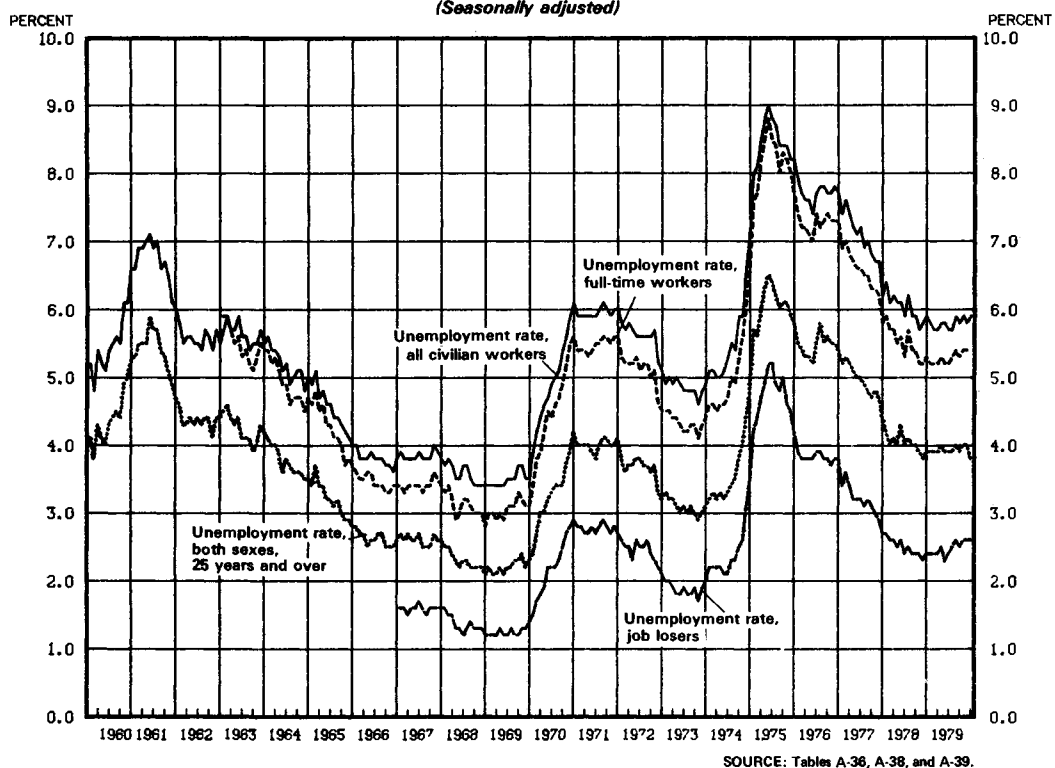
Page

1. Labor force and employment, 1960-79 .....	14
2. Major unemployment indicators, 1960-79 .....	15
3. Civilian labor force participation rates by sex and age, 1960-79 .....	15
4. Total employment by sex and age, 1960-79 .....	16
5. Employment-population ratios by sex and age, 1960-79 .....	17
6. Payroll employment in goods-and service-producing industries, 1960-79 .....	17
7. Nonagricultural payroll employment by industry, 1960-79 .....	18
8. Persons at work full and part time in nonagricultural industries, 1960-79 .....	19
9. Employment in nonfarm occupations, 1960-79 .....	20
10. Unemployment rates by sex and age, 1960-79 .....	21
11. Unemployment rates by race, 1960-79 .....	21
12. Unemployment rates by major occupational groups, 1960-79 .....	22
13. Duration of unemployment, 1960-79 .....	23
14. Average weekly hours in nonagricultural industries, 1960-79 .....	24
15. Average weekly earnings in nonagricultural industries, 1960-79 .....	24
16. Total private gross and spendable weekly earnings, 1960-79 .....	25
17. Labor turnover rates in manufacturing, 1960-79 .....	25

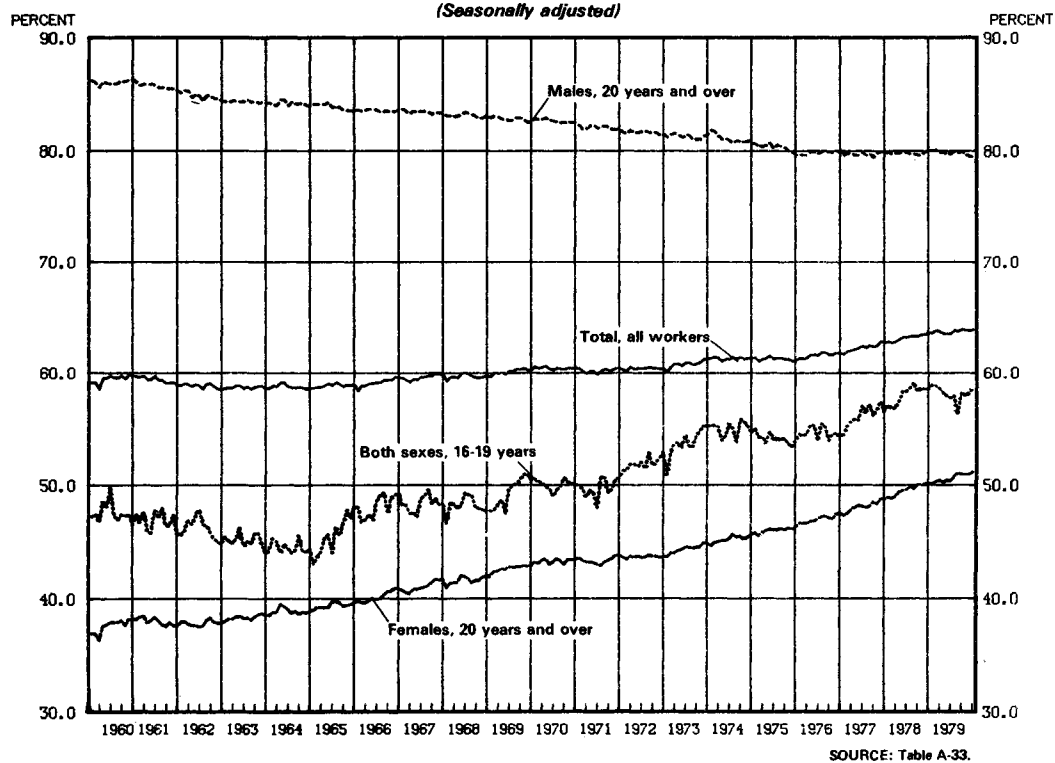




**Chart 2. Major unemployment indicators**  
(Seasonally adjusted)

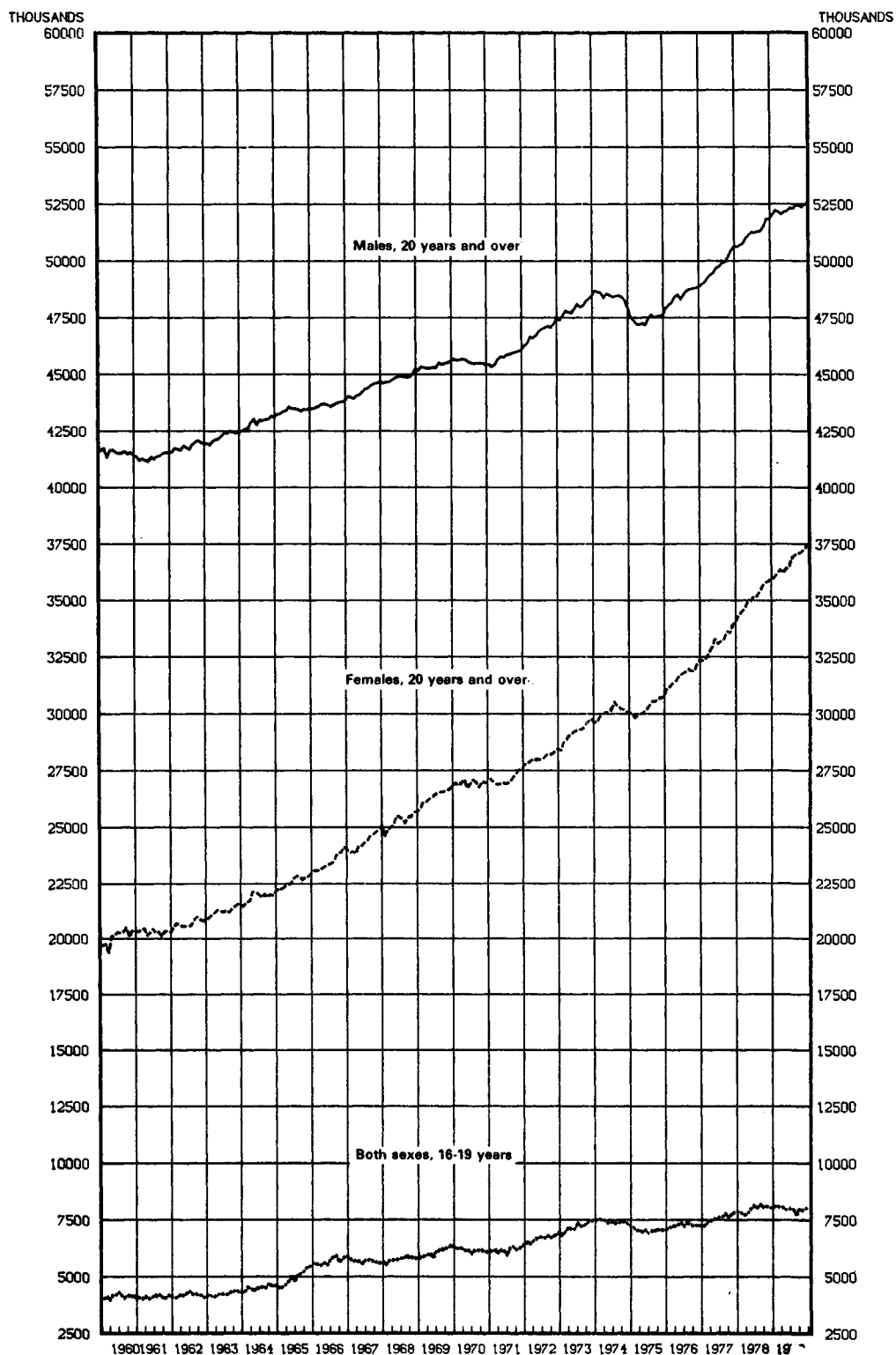


**Chart 3. Civilian labor force participation rates by sex and age**  
(Seasonally adjusted)



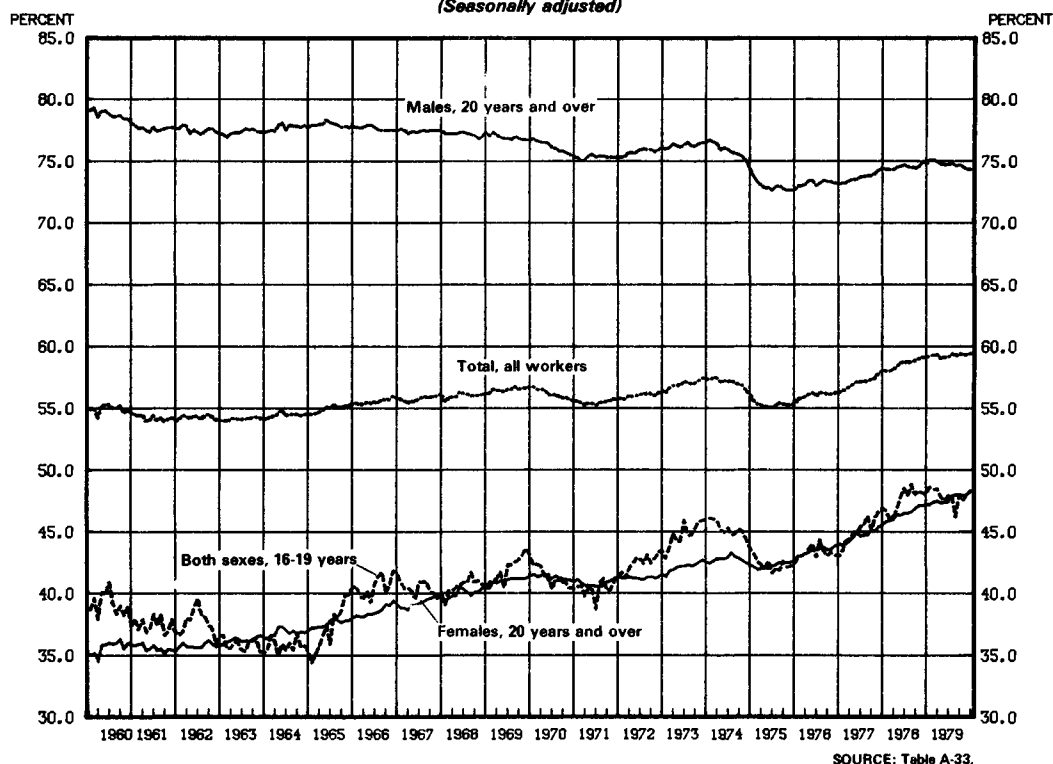
**Chart 4. Total employment by sex and age**

*(Seasonally adjusted)*

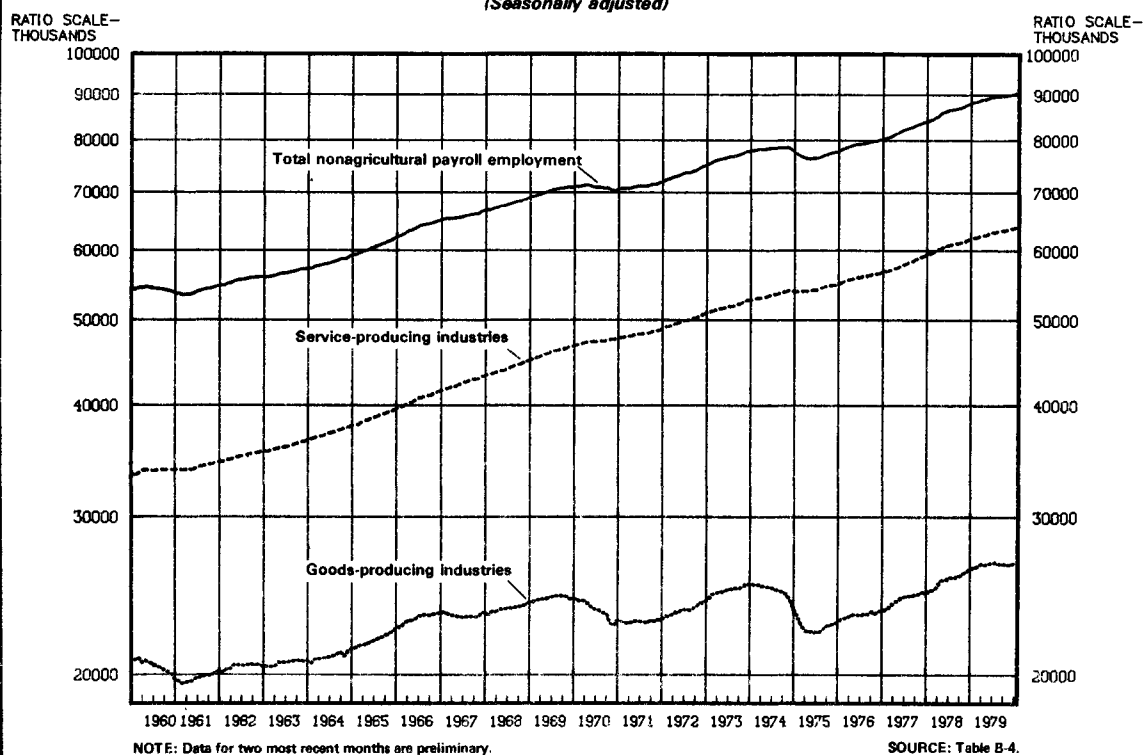


SOURCE: Table A-33.

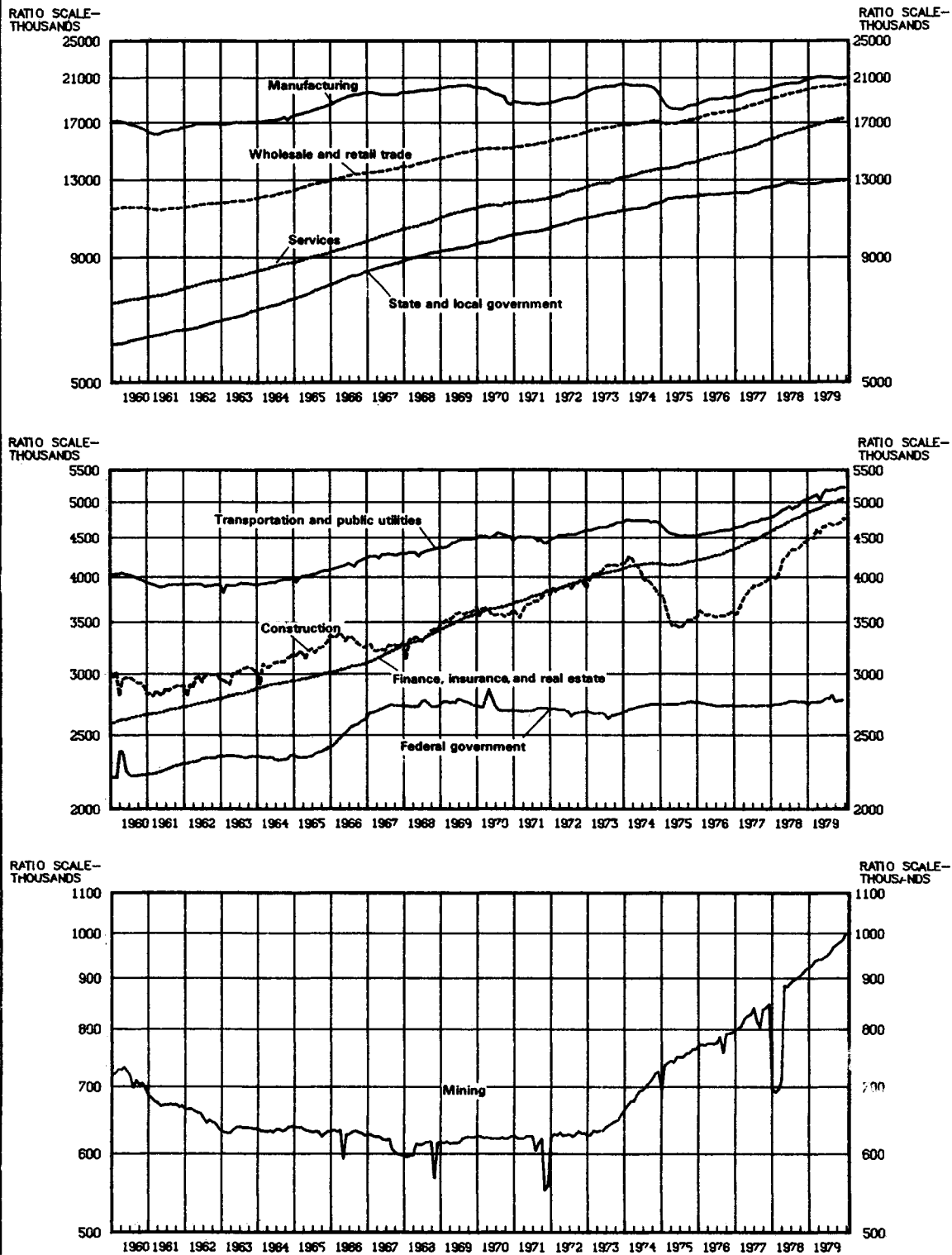
**Chart 5. Employment—population ratios by sex and age**  
(Seasonally adjusted)



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



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

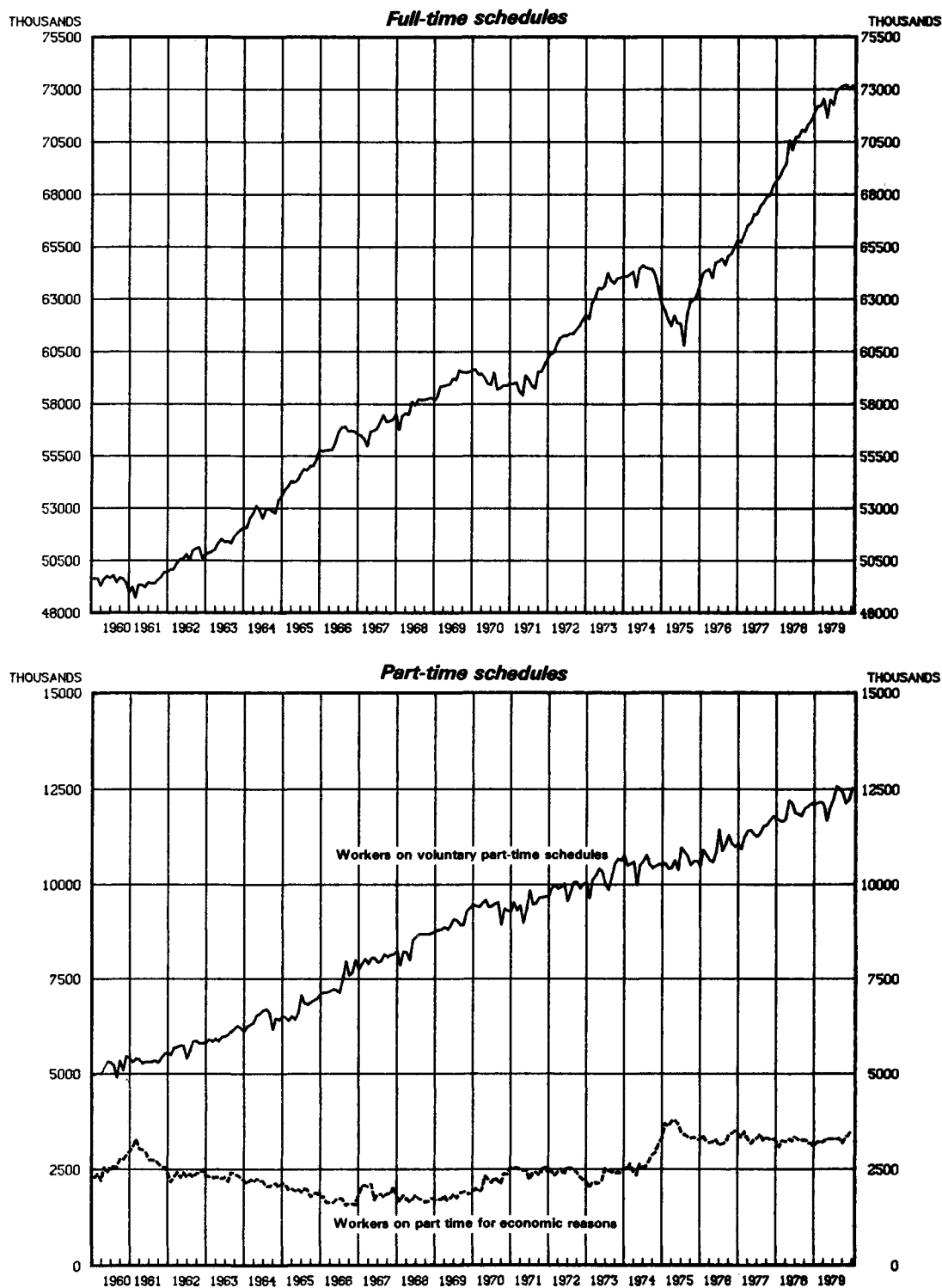


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

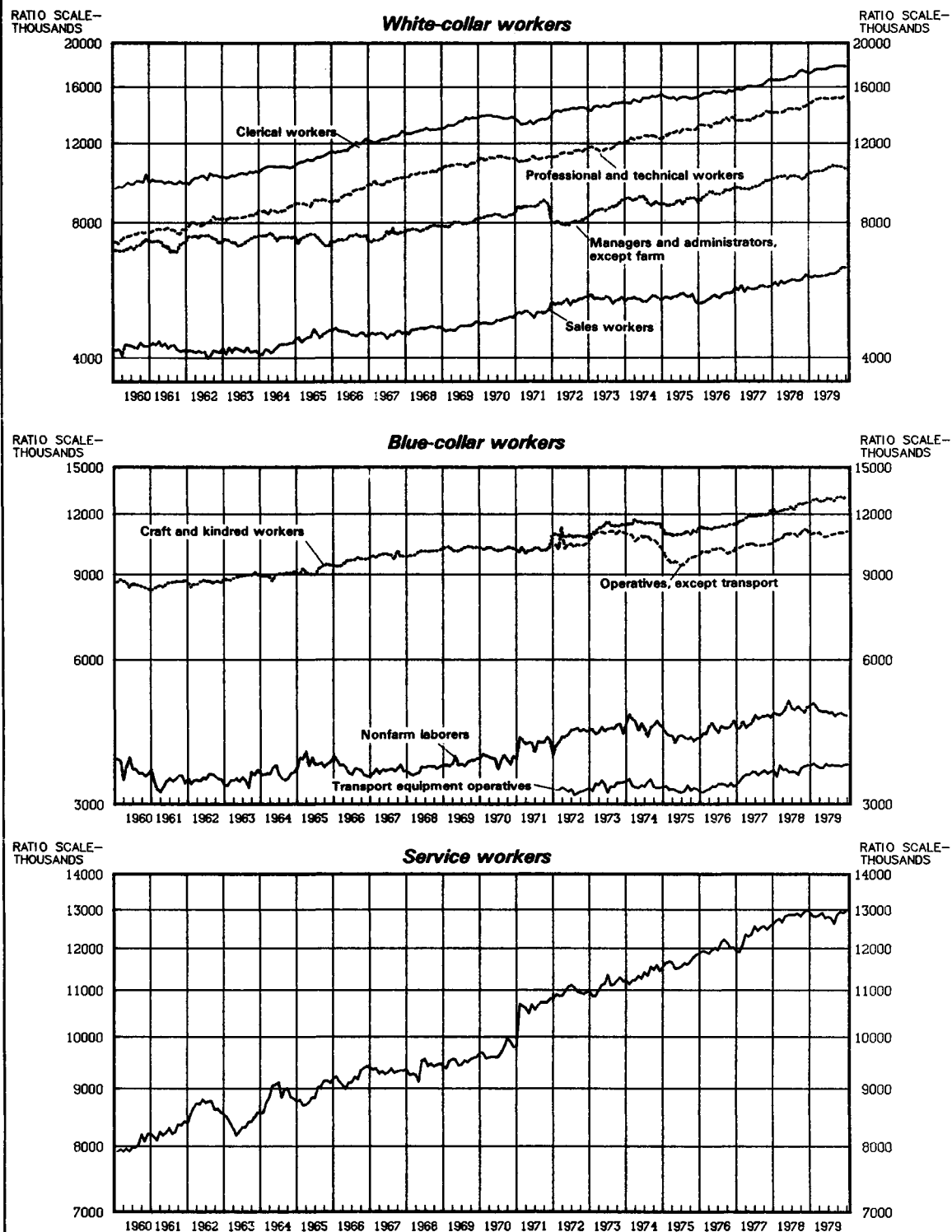
*(Seasonally adjusted)*



SOURCE: Table A-42.

# Chart 9. Employment in nonfarm occupations

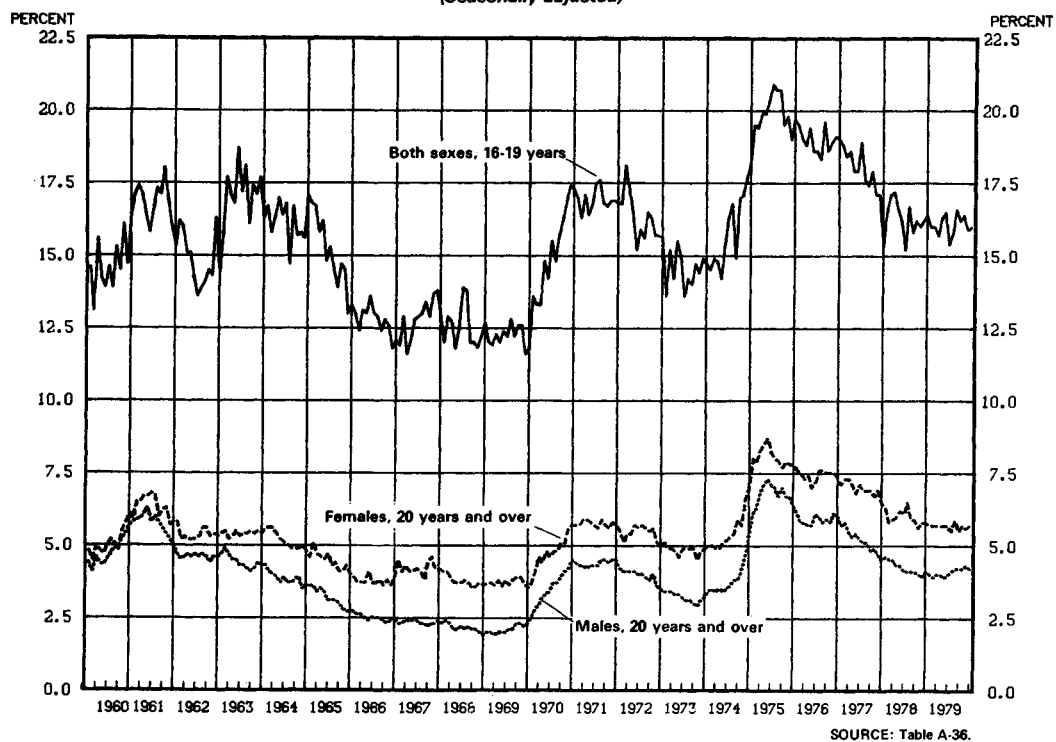
(Seasonally adjusted)



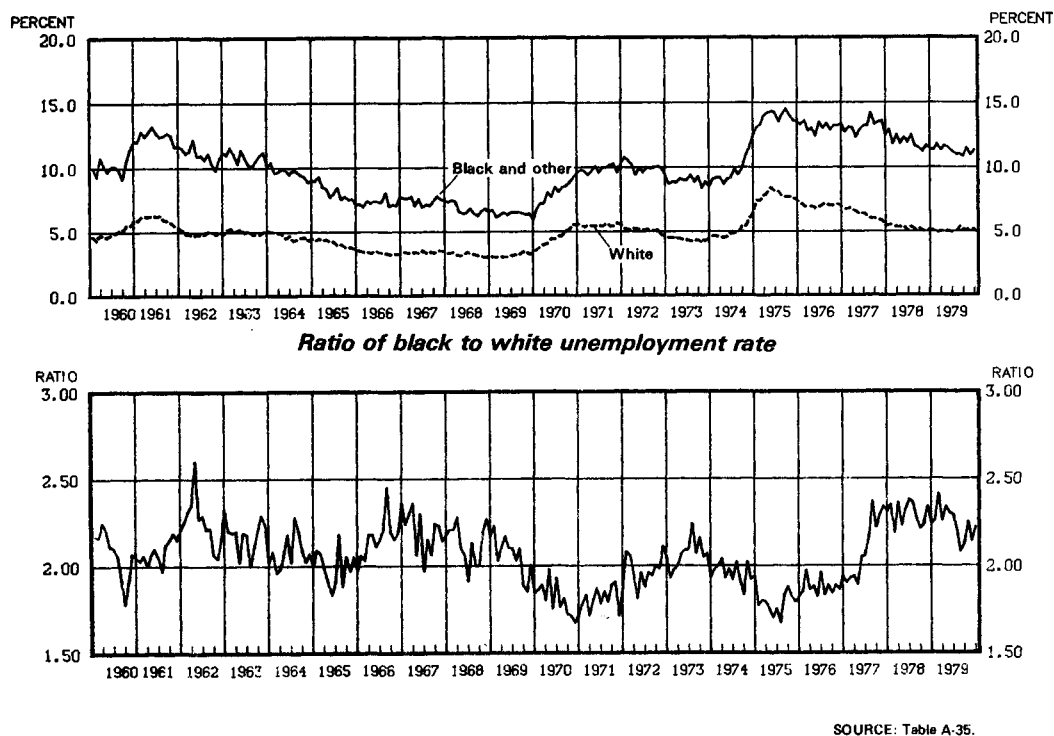
NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

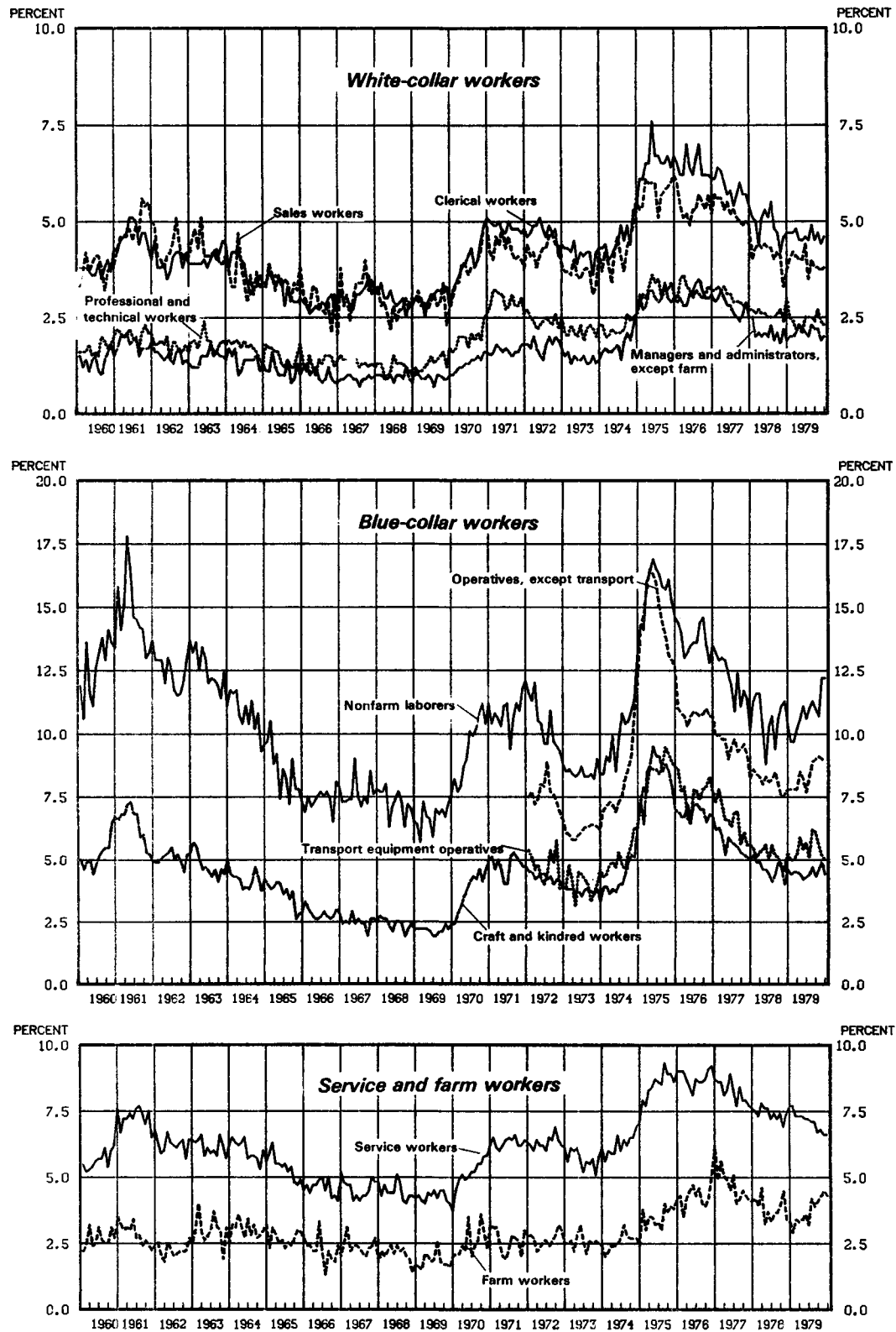
**Chart 10. Unemployment rates by sex and age**  
(Seasonally adjusted)



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



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

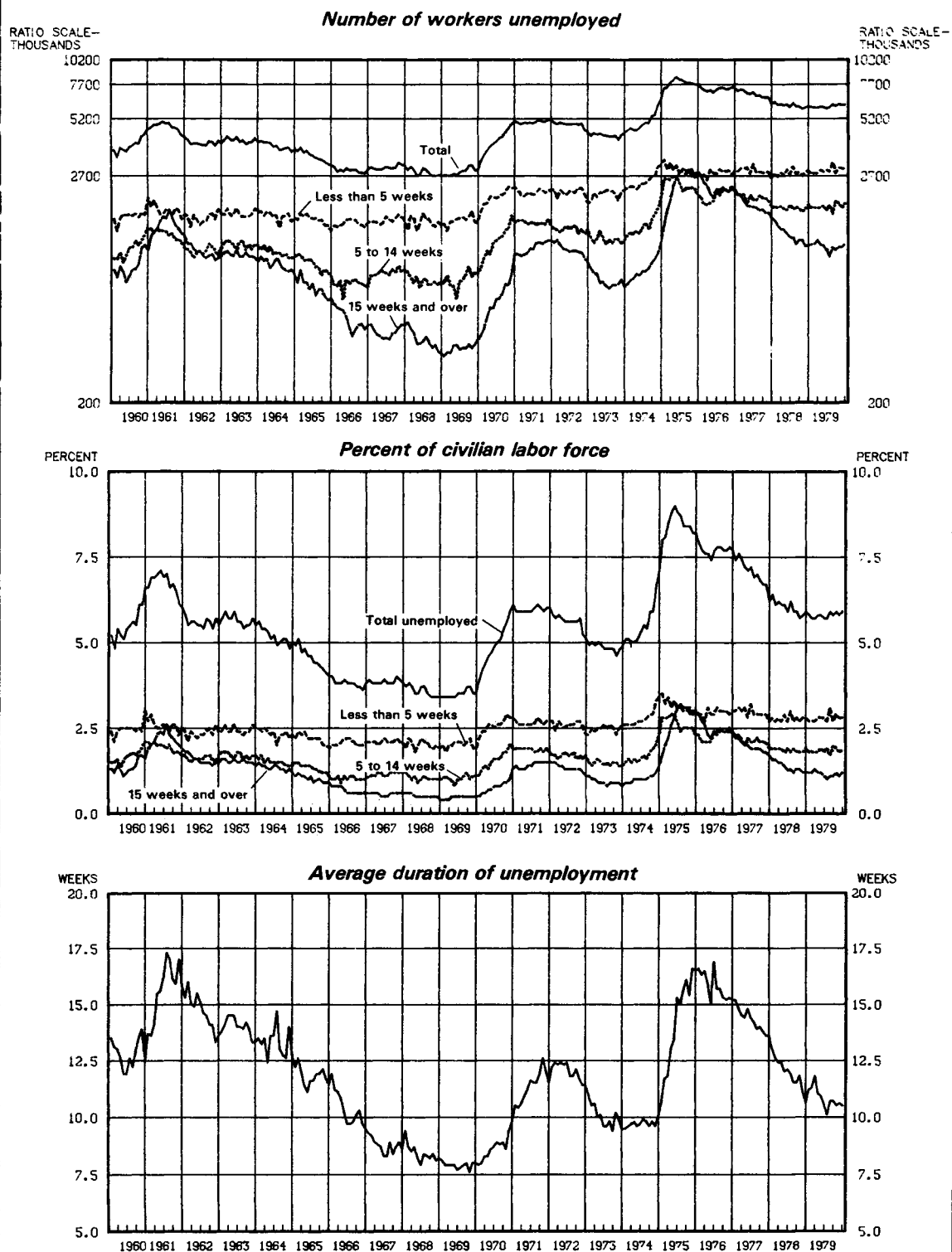


SOURCE: Table A-36.



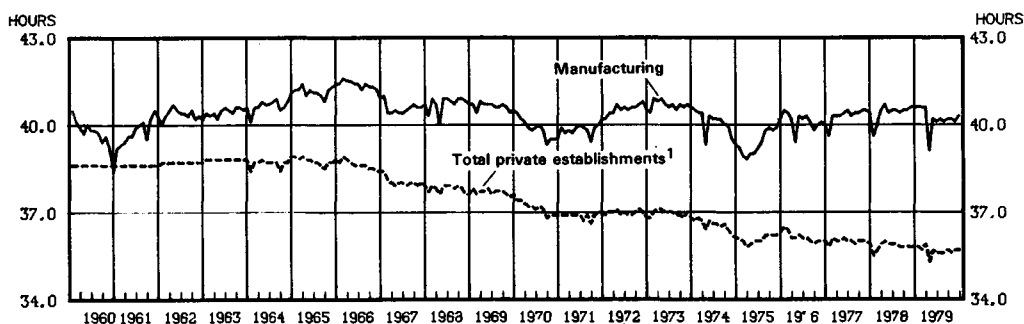
**Chart 13. Duration of unemployment**

(Seasonally adjusted)

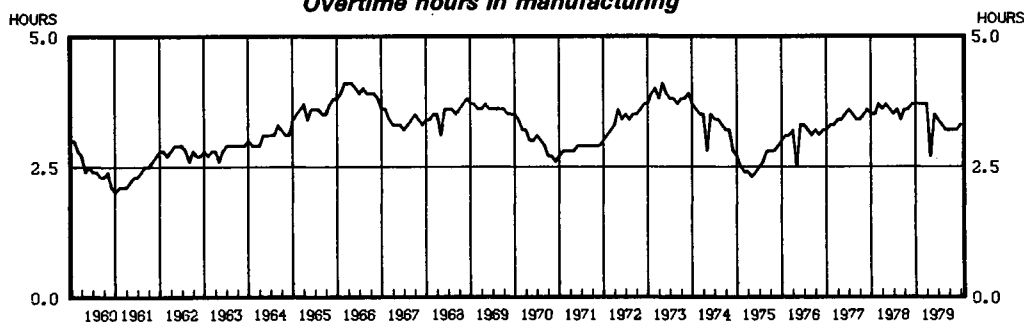


SOURCE: Table A-37.

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



**Overtime hours in manufacturing**

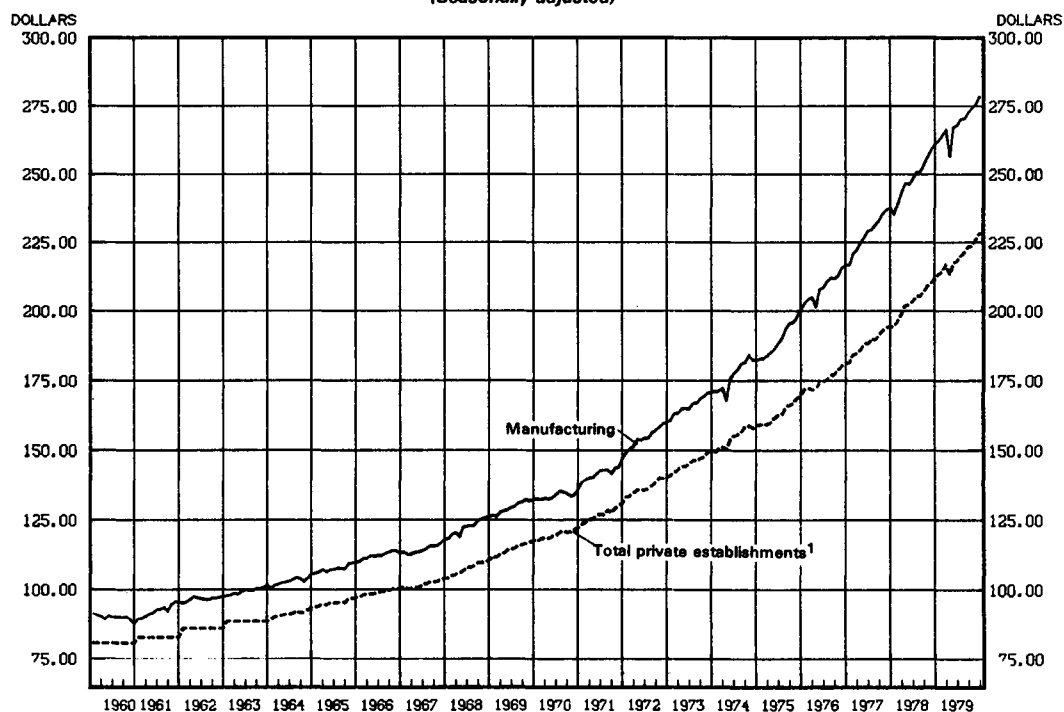


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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

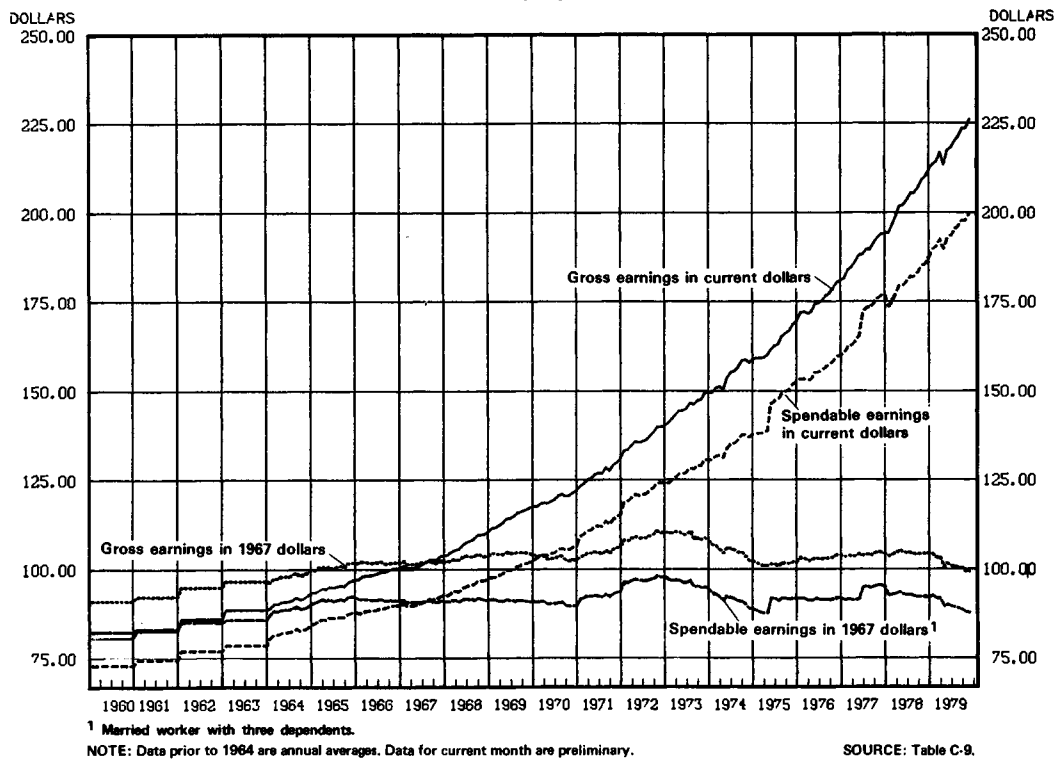


¹Annual averages prior to 1964.

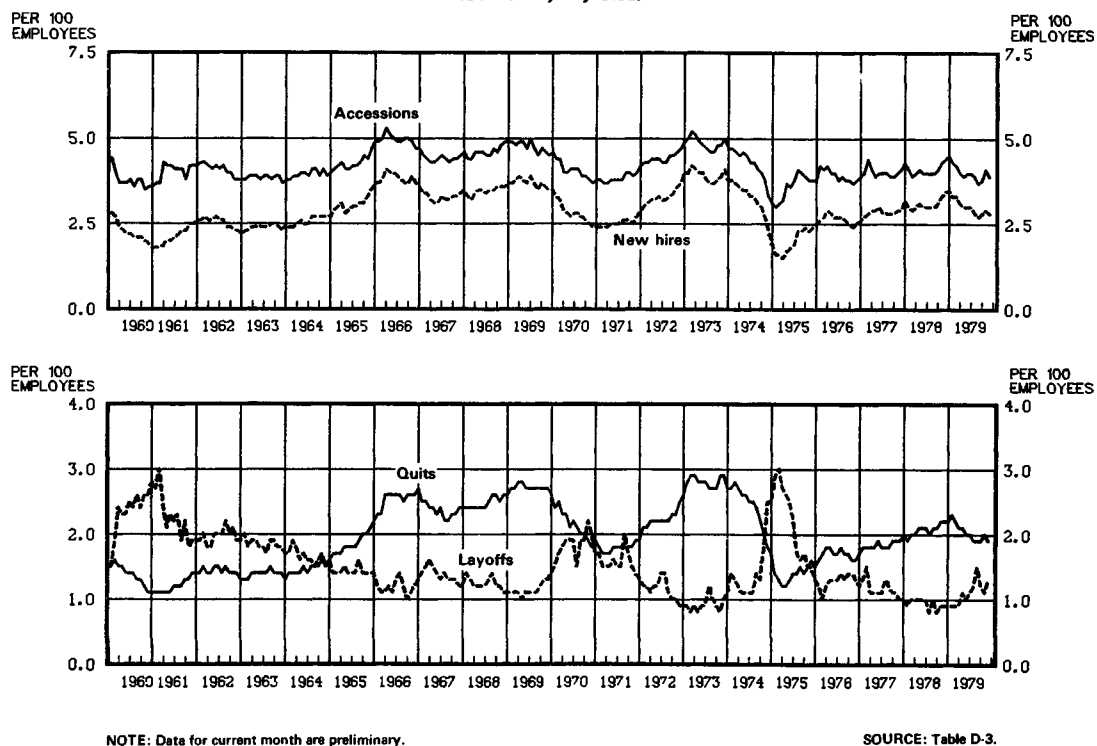
NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

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



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



# HOUSEHOLD DATA HISTORICAL

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

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
				Employed			Unemployed			
		Number	Percent of population	Total	Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
TOTAL	Annual averages									
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	70,455	65,746	5,200	60,546	4,714	6.7	48,312
1962 <sup>1</sup> .....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 <sup>1</sup> .....	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973.....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 <sup>1</sup> .....	161,058	102,537	63.7	100,426	94,373	3,342	91,031	6,047	6.0	58,521
1979.....	163,620	104,996	64.2	102,908	96,545	3,297	93,648	5,963	5.8	58,623
Monthly data, seasonally adjusted <sup>2</sup>										
1978:										
December..	162,250	103,923	64.1	101,815	95,831	3,375	92,456	5,964	5.9	58,327
1979:										
January...	162,448	104,155	64.1	102,061	96,157	3,260	92,897	5,904	5.8	58,292
February...	162,633	104,473	64.2	102,379	96,496	3,307	93,189	5,883	5.7	58,160
March.....	162,909	104,595	64.2	102,505	96,623	3,320	93,303	5,882	5.7	58,314
April.....	163,008	104,280	64.0	102,198	96,254	3,215	93,039	5,944	5.8	58,728
May.....	163,260	104,476	64.0	102,398	96,495	3,246	93,249	5,903	5.8	58,784
June.....	163,469	104,552	64.0	102,476	96,652	3,243	93,409	5,824	5.7	58,917
July.....	163,685	105,175	64.3	103,093	97,184	3,267	93,917	5,905	5.7	58,511
August....	163,891	105,218	64.2	103,128	97,004	3,315	93,689	6,124	5.9	58,673
September..	164,106	105,586	64.3	103,494	97,504	3,364	94,140	5,990	5.8	58,519
October...	164,468	105,688	64.3	103,595	97,474	3,294	94,180	6,121	5.9	58,780
November..	164,682	105,744	64.2	103,652	97,608	3,385	94,223	6,044	5.8	58,937
December..	164,898	106,088	64.3	103,999	97,912	3,359	94,553	6,067	5.9	58,810

<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.

NOTE: Seasonally adjusted data in this table have been revised. See article on page 9.

# HOUSEHOLD DATA HISTORICAL

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

[Numbers in thousands]

(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	
Annual averages										
MALES										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 <sup>1</sup> .....	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 <sup>1</sup> .....	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978.....	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979.....	78,397	61,466	78.4	59,517	56,499	2,645	53,854	3,018	5.1	16,931
Monthly data, seasonally adjusted <sup>2</sup>										
1978:										
December..	77,746	61,101	78.6	59,122	56,087	2,686	53,401	3,035	5.1	16,645
1979:										
January...	77,339	61,236	78.7	59,323	56,326	2,609	53,717	2,997	5.1	16,553
February..	77,926	61,397	78.8	59,434	56,476	2,655	53,821	2,958	5.0	16,529
March.....	78,058	61,376	78.6	59,421	56,449	2,656	53,793	2,972	5.0	16,682
April.....	78,105	61,240	78.4	59,293	56,294	2,593	53,701	2,999	5.1	16,865
May.....	78,225	61,257	78.3	59,313	56,372	2,608	53,764	2,941	5.0	16,968
June.....	78,323	61,311	78.3	59,370	56,477	2,600	53,877	2,893	4.9	17,012
July.....	78,427	61,540	78.5	59,597	56,570	2,614	53,956	3,027	5.1	16,887
August.....	78,525	61,437	78.2	59,491	56,408	2,650	53,758	3,083	5.2	17,088
September..	78,627	61,753	78.5	59,812	56,714	2,677	54,037	3,098	5.2	16,867
October....	78,805	61,675	78.3	59,727	56,629	2,666	53,963	3,098	5.2	17,130
November..	78,906	61,652	78.1	59,704	56,580	2,716	53,864	3,124	5.2	17,255
December..	79,009	61,762	78.2	59,823	56,734	2,714	54,020	3,089	5.2	17,247
Annual averages										
FEMALES										
1967.....	65,003	28,395	41.2	28,360	26,693	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> .....	75,511	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	6.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978 <sup>1</sup> .....	83,890	42,002	50.1	41,876	38,882	661	38,221	2,996	7.2	41,887
1979.....	85,223	43,531	51.1	43,391	40,446	652	39,794	2,945	6.8	41,692
Monthly data, seasonally adjusted <sup>2</sup>										
1978:										
December..	84,504	42,622	50.7	42,693	39,744	689	39,055	2,949	6.9	41,682
1979:										
January...	84,606	42,870	50.7	42,738	39,831	651	39,180	2,907	6.8	41,739
February..	84,707	43,077	50.9	42,945	40,020	652	39,368	2,925	6.8	41,631
March.....	84,851	43,220	50.9	43,084	40,174	664	39,510	2,910	6.8	41,632
April.....	84,903	43,040	50.7	42,905	39,960	622	39,338	2,945	6.9	41,863
May.....	85,035	43,220	50.8	43,085	40,123	638	39,485	2,962	6.9	41,815
June.....	85,145	43,241	50.6	43,106	40,175	643	39,532	2,931	6.8	41,905
July.....	85,259	43,635	51.2	43,496	40,614	653	39,961	2,882	6.6	41,624
August.....	85,366	43,782	51.3	43,637	40,596	665	39,931	3,041	7.0	41,585
September..	85,479	43,827	51.3	43,682	40,790	687	40,103	2,892	6.6	41,652
October....	85,603	44,013	51.4	43,868	40,845	628	40,217	3,023	6.9	41,651
November..	85,775	44,093	51.4	43,948	41,028	669	40,359	2,920	6.6	41,683
December..	85,889	44,326	51.6	44,176	41,178	645	40,533	2,998	6.8	41,563

See footnote 1, table A-1.

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

NOTE: Seasonally adjusted data in this table have been revised. See article on page 9.

# HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	December 1979										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over .....	61,351	77.7	59,412	56,325	3,087	5.2	17,658	429	4,529	1,747	10,954
16 to 21 years .....	8,476	66.7	7,827	6,722	1,105	14.1	4,228	21	3,780	36	391
16 to 19 years .....	5,030	59.8	4,745	3,990	755	15.9	3,384	9	3,109	21	245
16 to 17 years .....	2,015	48.6	1,996	1,625	371	18.6	2,131	3	2,032	9	87
18 to 19 years .....	3,016	70.6	2,749	2,365	384	14.0	1,253	6	1,076	12	159
20 to 64 years .....	54,426	89.4	52,772	50,495	2,277	4.3	6,431	187	1,416	1,233	3,595
20 to 24 years .....	8,863	85.9	8,132	7,352	780	9.6	1,451	25	1,059	50	317
25 to 54 years .....	38,453	94.5	37,531	36,215	1,316	3.5	2,246	93	351	656	1,146
25 to 29 years .....	8,675	94.7	8,315	7,912	403	4.8	482	6	216	55	205
30 to 34 years .....	7,977	96.5	7,727	7,440	287	3.7	292	16	65	59	152
35 to 39 years .....	6,425	96.1	6,236	6,012	223	3.6	261	15	32	79	135
40 to 44 years .....	5,346	95.6	5,261	5,120	141	2.7	246	9	13	91	134
45 to 49 years .....	5,009	92.9	4,979	4,864	115	2.3	380	20	17	146	198
50 to 54 years .....	5,021	89.6	5,014	4,866	147	2.9	585	27	5	227	322
55 to 64 years .....	7,111	72.2	7,110	6,928	182	2.6	2,734	69	6	527	2,133
55 to 59 years .....	4,396	81.9	4,395	4,293	102	2.3	974	27	4	268	675
60 to 64 years .....	2,715	60.7	2,715	2,635	80	3.0	1,760	42	2	259	1,458
65 years and over .....	1,894	19.4	1,894	1,840	54	2.8	7,843	233	4	493	7,113
65 to 69 years .....	1,108	29.1	1,108	1,074	34	3.0	2,701	81	3	195	2,422
70 years and over .....	786	13.3	786	766	20	2.6	5,141	152	1	298	4,691
White											
16 years and over .....	54,523	78.4	53,014	50,584	2,430	4.6	14,995	333	3,578	1,414	9,670
16 to 21 years .....	7,495	69.5	7,008	6,137	871	12.4	3,282	6	2,952	32	292
16 to 19 years .....	4,502	63.3	4,289	3,678	611	14.3	2,612	3	2,392	20	197
16 to 17 years .....	1,843	52.9	1,828	1,515	314	17.2	1,642	2	1,561	9	71
18 to 19 years .....	2,659	73.3	2,461	2,163	297	12.1	970	1	831	11	126
20 to 64 years .....	48,317	90.1	47,021	45,245	1,777	3.8	5,325	129	1,184	989	3,022
20 to 24 years .....	7,681	86.7	7,132	6,529	603	8.4	1,174	13	891	35	235
25 to 54 years .....	34,126	95.1	33,381	32,366	1,016	3.0	1,764	69	288	508	900
25 to 29 years .....	14,692	96.2	14,209	13,689	520	3.7	586	21	230	79	256
30 to 34 years .....	10,478	96.5	10,249	9,959	290	2.8	385	22	36	114	211
35 to 44 years .....	8,955	91.9	8,923	8,718	205	2.3	792	26	20	314	433
55 to 64 years .....	6,510	73.2	6,509	6,350	159	2.4	2,387	47	6	447	1,887
55 to 59 years .....	4,014	82.9	4,013	3,927	86	2.1	825	20	4	221	580
60 to 64 years .....	2,495	61.5	2,495	2,423	73	2.9	1,561	27	2	226	1,307
65 years and over .....	1,704	19.4	1,704	1,661	42	2.5	7,058	201	2	405	6,451
Black and other											
16 years and over .....	6,828	71.9	6,398	5,741	656	10.3	2,663	95	951	332	1,283
16 to 21 years .....	962	50.9	819	565	234	28.6	945	14	826	3	99
16 to 19 years .....	528	40.6	456	312	144	31.6	772	6	717	1	49
16 to 17 years .....	171	26.0	167	110	57	34.2	488	1	472	--	16
18 to 19 years .....	357	55.7	289	202	87	30.1	283	5	245	1	32
20 to 64 years .....	6,110	84.7	5,751	5,251	501	8.7	1,107	57	233	244	573
20 to 24 years .....	1,132	81.0	1,000	823	177	17.7	277	12	168	15	81
25 to 54 years .....	4,326	90.0	4,150	3,849	300	7.2	482	24	64	150	245
25 to 29 years .....	1,960	91.3	1,833	1,663	170	9.3	188	1	51	35	101
30 to 34 years .....	1,293	91.4	1,248	1,173	74	5.9	122	2	7	55	58
35 to 44 years .....	1,074	86.1	1,070	1,013	57	5.3	173	21	6	59	87
55 to 64 years .....	601	63.4	601	576	23	3.9	347	22	--	79	246
55 to 59 years .....	382	72.0	382	366	16	4.1	149	7	--	46	95
60 to 64 years .....	220	52.5	220	212	8	3.5	199	14	--	33	152
65 years and over .....	190	19.5	190	178	11	6.1	764	32	2	88	662

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

[Numbers in thousands]

		December 1979										
		Total labor force		Civilian labor force				Not in labor force				
Sex, age, and race	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons	
					Number	Percent of labor force						
FEMALES												
16 years and over .....	44,622	52.0	44,472	41,722	2,749	6.2	41,267	31,768	4,352	1,040	4,107	
16 to 21 years .....	7,198	57.9	7,139	6,213	925	13.0	5,241	1,279	3,626	15	320	
16 to 19 years .....	4,441	54.0	4,414	3,769	646	14.6	3,782	560	2,964	8	230	
16 to 17 years .....	1,825	45.5	1,823	1,537	286	15.7	2,186	150	1,952	--	84	
18 to 19 years .....	2,616	62.1	2,592	2,232	360	13.9	1,596	410	1,032	8	146	
20 to 64 years .....	39,024	61.2	38,900	36,825	2,075	5.3	24,757	21,355	1,349	465	1,587	
20 to 24 years .....	7,105	69.0	7,032	6,387	644	9.2	3,196	2,054	914	24	203	
25 to 54 years .....	27,251	64.2	27,201	25,905	1,292	4.7	15,226	13,812	414	224	776	
25 to 29 years .....	6,223	66.7	6,188	5,826	362	5.9	3,110	2,765	182	23	140	
30 to 34 years .....	5,441	64.1	5,431	5,142	289	5.3	3,042	2,604	103	17	119	
35 to 39 years .....	4,683	66.6	4,680	4,452	229	4.9	2,345	2,164	60	15	107	
40 to 44 years .....	3,842	64.8	3,841	3,697	144	3.7	2,088	1,911	39	44	94	
45 to 49 years .....	3,565	62.7	3,564	3,399	165	4.6	2,118	1,928	19	47	124	
50 to 54 years .....	3,497	58.1	3,497	3,393	104	3.0	2,522	2,242	10	79	192	
55 to 64 years .....	4,667	42.4	4,667	4,528	139	3.0	6,335	5,489	21	216	608	
55 to 59 years .....	2,904	49.2	2,904	2,827	77	2.6	2,598	2,683	14	119	182	
60 to 64 years .....	1,763	34.6	1,763	1,701	62	3.5	3,336	2,806	7	97	426	
65 years and over .....	1,157	8.3	1,157	1,129	29	2.5	12,728	9,853	18	567	2,290	
65 to 69 years .....	703	14.8	703	689	14	2.0	4,053	3,380	6	97	569	
70 years and over .....	455	5.0	455	440	15	3.2	8,676	6,473	12	470	1,721	
White												
16 years and over .....	38,608	51.7	38,495	36,410	2,085	5.4	36,141	28,451	3,438	780	3,472	
16 to 21 years .....	6,340	60.6	6,296	5,608	688	10.9	4,124	1,029	2,876	7	212	
16 to 19 years .....	3,943	57.1	3,924	3,435	489	12.5	2,962	463	2,339	4	156	
16 to 17 years .....	1,643	49.0	1,641	1,425	217	13.2	1,712	126	1,521	--	65	
18 to 19 years .....	2,300	64.8	2,282	2,010	272	11.9	1,249	336	818	4	91	
20 to 64 years .....	33,645	60.9	33,551	31,981	1,572	4.7	21,621	18,903	1,084	327	1,308	
20 to 24 years .....	6,135	70.5	6,080	5,626	454	7.5	2,569	1,667	747	17	138	
25 to 54 years .....	23,338	63.6	23,300	22,305	994	4.3	13,349	12,203	323	164	658	
25 to 34 years .....	9,879	64.8	9,845	9,373	472	4.8	5,366	4,913	220	24	209	
35 to 44 years .....	7,300	65.2	7,297	7,001	295	4.0	3,901	3,600	76	50	175	
45 to 54 years .....	6,159	60.1	6,158	5,930	228	3.7	4,081	3,689	27	90	274	
55 to 64 years .....	4,172	42.2	4,172	4,050	123	2.9	5,703	5,033	13	146	511	
55 to 59 years .....	2,591	49.1	2,591	2,524	67	2.6	2,690	2,449	9	85	148	
60 to 64 years .....	1,581	34.4	1,581	1,525	56	3.5	3,013	2,584	4	61	363	
65 years and over .....	1,020	6.1	1,020	994	25	2.5	11,558	9,085	16	449	2,008	
Black and other												
16 years and over .....	6,014	54.0	5,977	5,313	664	11.1	5,126	3,318	913	261	635	
16 to 21 years .....	858	43.4	843	605	237	28.2	1,117	251	749	8	108	
16 to 19 years .....	498	37.8	491	334	157	32.0	821	58	646	4	73	
16 to 17 years .....	182	27.7	181	112	69	38.0	474	23	431	1	19	
18 to 19 years .....	316	47.7	309	221	88	28.4	347	74	215	3	55	
20 to 64 years .....	5,378	63.2	5,343	4,845	503	9.4	3,136	2,452	266	138	280	
20 to 24 years .....	970	60.8	952	762	190	20.0	626	387	167	7	64	
25 to 54 years .....	3,914	67.6	3,902	3,604	297	7.6	1,878	1,609	90	61	117	
25 to 34 years .....	1,786	69.4	1,775	1,595	180	10.1	786	655	65	16	50	
35 to 44 years .....	1,226	69.7	1,225	1,148	77	6.3	532	474	23	9	25	
45 to 54 years .....	903	61.7	903	862	41	4.5	560	480	2	35	42	
55 to 64 years .....	494	43.9	494	479	16	3.2	632	456	8	70	98	
55 to 59 years .....	313	50.4	313	303	10	3.1	308	234	6	34	35	
60 to 64 years .....	182	36.0	182	176	6	3.4	323	222	2	36	63	
65 years and over .....	138	10.5	138	134	4	2.6	1,170	768	2	118	282	

# 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	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
<b>MALES</b>								
16 years and over	60,671	61,351	78.0	77.7	58,692	59,412	77.5	77.1
16 to 19 years	5,048	5,030	59.7	59.8	4,757	4,745	58.3	58.4
16 to 17 years	2,018	2,015	48.0	48.6	1,996	1,996	47.7	48.4
18 to 19 years	3,030	3,016	71.3	70.6	2,762	2,749	69.4	68.7
20 to 24 years	8,761	8,863	86.0	85.9	8,010	8,132	84.9	84.9
25 to 34 years	37,757	38,453	94.7	94.5	36,821	37,531	94.5	94.4
25 to 34 years	16,161	16,653	95.8	95.6	15,547	16,042	95.6	95.4
35 to 44 years	11,434	11,771	95.8	95.9	11,151	11,496	95.7	95.8
45 to 54 years	10,161	10,029	91.7	91.2	10,122	9,993	91.7	91.2
55 to 64 years	7,161	7,111	73.7	72.2	7,160	7,110	73.7	72.2
65 to 69 years	4,397	4,396	82.5	81.9	4,396	4,395	82.5	81.9
70 to 74 years	2,764	2,715	63.0	60.7	2,764	2,715	63.0	60.7
75 years and over	1,944	1,894	20.5	19.4	1,944	1,894	20.5	19.4
<b>White</b>								
16 years and over	53,936	54,523	78.7	78.4	52,347	53,014	78.2	78.0
16 to 19 years	4,471	4,502	62.4	63.3	4,242	4,289	61.1	62.1
16 to 17 years	1,843	1,843	51.4	52.9	1,808	1,828	51.2	52.7
18 to 19 years	2,645	2,659	73.0	73.3	2,434	2,461	71.4	71.7
20 to 24 years	7,602	7,681	86.7	86.7	7,015	7,132	85.7	85.9
25 to 34 years	33,609	34,126	95.4	95.1	32,837	33,381	95.3	95.0
25 to 34 years	14,308	14,692	96.5	96.2	13,809	14,209	96.4	96.0
35 to 44 years	10,206	10,478	96.7	96.5	9,968	10,249	96.6	96.4
45 to 54 years	9,095	8,955	92.3	91.9	9,060	8,923	92.3	91.8
55 to 64 years	6,509	6,510	74.1	73.2	6,507	6,509	74.1	73.2
65 to 69 years	3,996	4,014	83.2	82.9	3,995	4,013	83.2	82.9
70 to 74 years	2,512	2,495	63.1	61.5	2,512	2,495	63.1	61.5
75 years and over	1,745	1,704	20.4	19.4	1,745	1,704	20.4	19.4
<b>Black and other</b>								
16 years and over	6,735	6,828	73.0	71.9	6,345	6,398	71.8	70.6
16 to 19 years	577	528	44.0	40.6	515	456	42.1	37.2
16 to 17 years	192	171	29.2	26.0	188	167	28.8	25.5
18 to 19 years	385	357	61.2	55.7	327	289	57.2	50.5
20 to 24 years	1,159	1,192	81.8	81.0	994	1,003	79.4	78.3
25 to 34 years	4,148	4,326	89.2	90.0	3,985	4,150	88.8	89.6
25 to 34 years	1,853	1,960	90.6	91.3	1,738	1,833	90.1	90.7
35 to 44 years	1,228	1,293	89.5	91.4	1,183	1,248	89.1	91.1
45 to 54 years	1,067	1,074	86.5	86.1	1,063	1,070	86.5	86.1
55 to 64 years	653	601	70.4	63.4	653	601	70.4	63.4
65 to 69 years	401	382	76.4	72.0	401	382	76.4	72.0
70 to 74 years	252	220	62.5	52.5	252	220	62.5	52.5
75 years and over	198	190	21.0	19.5	198	190	21.0	19.5



## 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	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
<b>FEMALES</b>								
16 years and over . . . . .	43,069	44,622	51.0	52.0	42,940	44,472	50.9	51.9
16 to 19 years . . . . .	4,446	4,441	53.7	54.0	4,426	4,414	53.6	53.9
16 to 17 years . . . . .	1,864	1,825	45.8	45.5	1,863	1,823	45.7	45.5
18 to 19 years . . . . .	2,582	2,616	61.5	62.1	2,562	2,592	61.3	61.9
20 to 24 years . . . . .	7,019	7,105	69.0	69.0	6,952	7,032	68.8	68.8
25 to 54 years . . . . .	25,890	27,251	62.2	64.2	25,849	27,201	62.1	64.1
25 to 34 years . . . . .	11,072	11,665	64.2	65.5	11,035	11,619	64.1	65.4
35 to 44 years . . . . .	7,886	8,526	62.7	65.8	7,883	8,522	62.7	65.8
45 to 54 years . . . . .	6,932	7,062	58.6	60.3	6,931	7,061	58.6	60.3
55 to 64 years . . . . .	4,578	4,667	42.2	42.4	4,578	4,667	42.2	42.4
55 to 59 years . . . . .	2,860	2,904	48.8	49.2	2,860	2,904	48.8	49.2
60 to 64 years . . . . .	1,718	1,763	34.4	34.6	1,718	1,763	34.4	34.6
65 years and over . . . . .	1,135	1,157	8.4	8.3	1,135	1,157	8.4	8.3
<b>White</b>								
16 years and over . . . . .	37,311	38,608	50.6	51.7	37,209	38,495	50.6	51.6
16 to 19 years . . . . .	3,960	3,943	56.9	57.1	3,943	3,924	56.8	57.0
16 to 17 years . . . . .	1,691	1,643	49.4	49.0	1,690	1,641	49.4	48.9
18 to 19 years . . . . .	2,269	2,300	64.0	64.8	2,254	2,282	63.8	64.6
20 to 24 years . . . . .	6,036	6,135	70.0	70.5	5,983	6,080	69.9	70.3
25 to 54 years . . . . .	22,202	23,338	61.6	63.6	22,170	23,300	61.5	63.6
25 to 34 years . . . . .	9,416	9,879	63.7	64.8	9,388	9,845	63.6	64.7
35 to 44 years . . . . .	6,736	7,300	61.9	65.2	6,733	7,297	61.9	65.2
45 to 54 years . . . . .	6,051	6,159	58.3	60.1	6,050	6,158	58.3	60.1
55 to 64 years . . . . .	4,106	4,172	42.1	42.2	4,106	4,172	42.1	42.2
55 to 59 years . . . . .	2,571	2,591	49.0	49.1	2,571	2,591	49.0	49.1
60 to 64 years . . . . .	1,536	1,581	34.0	34.4	1,536	1,581	34.0	34.4
65 years and over . . . . .	1,006	1,020	8.2	8.1	1,006	1,020	8.2	8.1
<b>Black and other</b>								
16 years and over . . . . .	5,758	6,014	53.2	54.0	5,731	5,977	53.1	53.8
16 to 19 years . . . . .	486	493	37.1	37.8	483	491	36.9	37.4
16 to 17 years . . . . .	174	182	26.5	27.7	174	181	26.5	27.7
18 to 19 years . . . . .	312	316	47.7	47.7	309	309	47.4	47.1
20 to 24 years . . . . .	983	970	63.2	60.8	969	952	62.8	60.3
25 to 54 years . . . . .	3,688	3,914	65.9	67.6	3,679	3,902	65.8	67.5
25 to 34 years . . . . .	1,656	1,786	67.5	69.4	1,648	1,775	67.4	69.3
35 to 44 years . . . . .	1,150	1,226	67.6	69.7	1,150	1,225	67.6	69.7
45 to 54 years . . . . .	882	903	61.1	61.7	882	903	61.1	61.7
55 to 64 years . . . . .	472	494	43.0	43.9	472	494	43.0	43.9
55 to 59 years . . . . .	269	313	47.3	50.4	289	313	47.3	50.4
60 to 64 years . . . . .	182	182	37.6	36.0	182	182	37.6	36.0
65 years and over . . . . .	129	138	10.2	10.5	129	138	10.2	10.5

# HOUSEHOLD DATA

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

(Numbers in thousands)

Sex and age	December 1979						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
TOTAL							
16 years and over	10,457	9,276	240	9,036	1,180	11.3	6,749
16 to 19 years	803	527	11	516	276	34.4	1,414
16 to 17 years	286	175	6	169	111	38.8	867
18 to 19 years	518	352	6	347	166	32.0	547
20 to 24 years	1,656	1,326	23	1,304	330	19.9	792
25 to 54 years	6,761	6,232	167	6,065	528	7.8	1,958
25 to 34 years	3,005	2,695	53	2,642	310	10.3	778
35 to 44 years	2,094	1,958	53	1,905	136	6.5	552
45 to 54 years	1,662	1,579	62	1,518	82	5.0	628
55 to 64 years	951	916	26	890	35	3.7	872
55 to 59 years	587	565	9	556	22	3.8	413
60 to 64 years	364	351	17	334	13	3.4	460
65 years and over	285	275	13	261	11	3.8	1,711
Males							
16 years and over	5,404	4,804	203	4,601	599	11.1	2,306
16 to 19 years	387	252	8	244	135	34.9	677
16 to 17 years	136	86	6	80	50	36.8	440
18 to 19 years	251	166	3	164	86	34.3	236
20 to 24 years	852	685	21	665	167	19.6	237
25 to 54 years	3,490	3,221	140	3,081	267	7.7	405
25 to 34 years	1,520	1,370	43	1,327	150	9.9	151
35 to 44 years	1,061	991	46	945	70	6.6	104
45 to 54 years	909	860	53	809	47	5.2	151
55 to 64 years	513	492	21	471	21	4.1	317
55 to 59 years	320	306	8	298	14	4.4	142
60 to 64 years	194	186	13	173	7	3.6	176
65 years and over	161	153	11	140	9	5.6	668
Females							
16 years and over	5,053	4,472	37	4,435	581	11.5	4,443
16 to 19 years	416	275	3	272	141	34.0	737
16 to 17 years	150	89	--	89	61	40.7	427
18 to 19 years	267	186	3	183	80	30.2	311
20 to 24 years	804	641	2	639	163	20.3	555
25 to 54 years	3,271	3,011	27	2,984	261	8.0	1,553
25 to 34 years	1,485	1,325	10	1,315	160	10.8	627
35 to 44 years	1,033	967	7	960	66	6.4	448
45 to 54 years	753	719	9	709	35	4.6	477
55 to 64 years	438	424	5	419	14	3.2	555
55 to 59 years	267	259	1	258	8	3.1	271
60 to 64 years	170	165	4	161	6	3.5	284
65 years and over	124	122	2	121	2	1.6	1,043

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

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
<b>TOTAL</b>								
Total noninstitutional population .....	162,250	164,898	69,288	70,594	76,227	77,666	16,734	16,638
Total labor force .....	103,740	105,973	55,623	56,320	38,622	40,181	9,454	9,471
Percent of population .....	63.9	64.3	80.3	79.8	50.7	51.7	56.7	56.9
Civilian labor force .....	101,632	103,884	53,935	54,666	38,514	40,057	9,183	9,160
Employed .....	95,906	98,047	51,713	52,335	36,457	37,954	7,726	7,759
Agriculture .....	2,990	2,995	2,250	2,292	479	466	262	237
Nonagricultural industries .....	92,916	95,052	49,463	50,043	35,978	37,487	7,475	7,522
Unemployed .....	5,725	5,836	2,221	2,331	2,057	2,104	1,447	1,401
Percent of labor force .....	5.6	5.6	4.1	4.3	5.3	5.3	15.8	15.3
Not in labor force .....	58,510	58,925	13,665	14,274	37,605	37,485	7,235	7,166
<b>White</b>								
Total noninstitutional population .....	142,198	144,267	61,351	62,404	60,712	67,844	14,135	14,019
Total labor force .....	91,247	93,131	49,465	50,021	33,351	34,665	8,431	8,445
Percent of population .....	64.2	64.6	80.6	80.2	50.0	51.1	59.6	60.2
Civilian labor force .....	89,556	91,509	48,105	48,725	33,266	34,571	8,185	8,213
Employed .....	85,133	86,993	46,371	46,906	31,702	32,975	7,061	7,113
Agriculture .....	2,690	2,709	1,993	2,060	452	427	246	222
Nonagricultural industries .....	82,443	84,284	44,378	44,846	31,250	32,548	6,815	6,990
Unemployed .....	4,422	4,516	1,734	1,819	1,564	1,597	1,124	1,100
Percent of labor force .....	4.9	4.9	3.6	3.7	4.7	4.6	13.7	13.4
Not in labor force .....	50,951	51,136	11,886	12,383	33,361	33,179	5,704	5,574
<b>Black and other</b>								
Total noninstitutional population .....	20,051	20,631	7,937	8,191	9,516	9,822	2,598	2,618
Total labor force .....	12,492	12,842	6,158	6,300	5,271	5,516	1,063	1,026
Percent of population .....	62.3	62.2	77.6	76.9	55.4	56.2	40.5	39.2
Civilian labor force .....	12,076	12,374	5,830	5,941	5,248	5,486	998	947
Employed .....	10,773	11,054	5,343	5,429	4,755	4,979	676	646
Agriculture .....	300	286	257	232	27	40	15	14
Nonagricultural industries .....	10,473	10,768	5,085	5,197	4,728	4,939	660	632
Unemployed .....	1,303	1,321	487	512	493	507	322	301
Percent of labor force .....	10.8	10.7	8.4	8.6	9.4	9.2	32.3	31.8
Not in labor force .....	7,559	7,789	1,780	1,891	4,244	4,306	1,535	1,592

# HOUSEHOLD DATA

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

(Numbers in thousands)

Employment status	December 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
<b>TOTAL</b>									
Total noninstitutional population .....	25,142	12,704	12,438	21,241	10,777	10,464	3,901	1,927	1,974
Total labor force .....	15,674	8,476	7,198	13,835	7,495	6,340	1,839	982	858
Percent of population .....	62.3	66.7	57.9	65.1	69.5	60.6	47.1	50.9	43.4
Civilian labor force .....	14,966	7,827	7,139	13,304	7,008	6,296	1,662	819	843
Employed .....	12,936	6,722	6,213	11,745	6,137	5,608	1,191	585	605
Agriculture .....	381	331	50	353	307	46	28	24	4
Nonagricultural industries .....	12,555	6,392	6,163	11,392	5,830	5,562	1,163	561	602
Unemployed .....	2,030	1,105	925	1,559	871	688	471	234	237
Looking for full-time work .....	1,196	683	513	904	519	385	292	164	128
Looking for part-time work .....	834	422	413	655	352	303	179	70	109
Percent of labor force .....	13.6	14.1	13.0	11.7	12.4	10.9	26.4	28.6	28.2
Not in labor force .....	9,468	4,228	5,241	7,406	3,282	4,124	2,062	945	1,117
<b>Major activity: going to school</b>									
Civilian labor force .....	4,605	2,364	2,241	4,190	2,196	1,994	415	168	247
Employed .....	3,826	1,951	1,874	3,591	1,863	1,728	235	88	147
Agriculture .....	123	109	14	119	105	14	4	4	--
Nonagricultural industries .....	3,703	1,842	1,860	3,472	1,758	1,714	231	84	147
Unemployed .....	779	413	367	599	333	266	180	80	100
Looking for full-time work .....	62	31	31	34	17	17	28	13	14
Looking for part-time work .....	718	382	336	565	315	250	153	67	86
Percent of labor force .....	16.9	17.5	16.4	14.3	15.1	13.4	43.4	47.6	40.6
Not in labor force .....	7,406	3,780	3,626	5,829	2,952	2,876	1,578	828	749
<b>Major activity: other</b>									
Civilian labor force .....	10,360	5,463	4,897	9,114	4,812	4,302	1,246	651	596
Employed .....	9,110	4,771	4,339	8,154	4,274	3,880	956	497	459
Agriculture .....	258	222	36	234	202	32	23	20	4
Nonagricultural industries .....	8,852	4,549	4,303	7,920	4,072	3,848	932	477	455
Unemployed .....	1,251	692	559	960	538	422	291	154	137
Looking for full-time work .....	1,134	652	482	870	502	368	264	151	114
Looking for part-time work .....	116	40	77	90	36	54	26	3	23
Percent of labor force .....	12.1	12.7	11.4	10.5	11.2	9.8	23.3	23.6	23.0
Not in labor force .....	2,062	447	1,615	1,578	330	1,246	484	117	367

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

(Numbers in thousands)

December 1979									
Race, sex, and age	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
TOTAL									
Both sexes, 16 years and over.....	87,492	79,497	3,513	4,482	5.1	16,391	15,037	1,354	8.3
16 to 21 years.....	8,887	6,993	698	1,196	13.5	6,079	5,245	834	13.7
16 to 19 years.....	4,283	3,170	428	685	16.0	4,876	4,161	716	14.7
16 to 17 years.....	649	416	93	140	21.6	3,170	2,653	517	16.3
18 to 19 years.....	3,634	2,755	334	545	15.0	1,707	1,506	199	11.7
20 years and over.....	83,209	76,327	3,086	3,797	4.6	11,515	10,876	639	5.5
20 to 24 years.....	12,887	10,971	700	1,216	9.4	2,277	2,069	208	9.1
25 years and over.....	70,322	65,356	2,385	2,581	3.7	9,238	8,807	431	4.7
25 to 54 years.....	58,437	54,246	1,896	2,296	3.9	6,295	5,983	312	5.0
55 years and over.....	11,885	11,111	489	285	2.4	2,943	2,825	119	4.0
Males, 16 years and over.....	54,096	49,939	1,623	2,534	4.7	5,315	4,763	552	10.4
16 to 21 years.....	4,906	3,917	307	683	13.9	2,921	2,499	422	14.4
16 to 19 years.....	2,366	1,801	183	383	16.2	2,379	2,006	373	15.7
20 years and over.....	51,730	48,138	1,440	2,152	4.2	2,937	2,757	180	6.1
20 to 24 years.....	7,185	6,124	360	701	9.8	547	868	79	8.3
25 years and over.....	44,544	42,014	1,079	1,451	3.3	1,990	1,888	101	5.1
25 to 54 years.....	36,768	34,666	819	1,282	3.5	764	730	33	4.3
55 years and over.....	7,777	7,348	261	168	2.2	1,227	1,159	68	5.5
Females, 16 years and over.....	33,396	29,558	1,890	1,948	5.8	11,076	10,274	802	7.2
16 to 21 years.....	3,980	3,076	391	513	12.9	3,158	2,746	413	13.1
16 to 19 years.....	1,917	1,369	245	303	15.8	2,498	2,155	343	13.7
20 years and over.....	31,479	28,188	1,646	1,645	5.2	8,578	8,115	459	5.3
20 to 24 years.....	5,702	4,847	340	516	9.0	1,330	1,201	129	9.7
25 years and over.....	25,777	23,341	1,306	1,130	4.4	7,248	6,919	330	4.6
25 to 54 years.....	21,670	19,579	1,077	1,013	4.7	5,531	5,253	279	5.0
55 years and over.....	4,107	3,762	229	117	2.8	1,717	1,666	51	3.0
White									
Males, 16 years and over.....	48,215	44,913	1,338	1,964	4.1	4,799	4,333	466	9.7
16 to 21 years.....	4,336	3,563	254	519	12.0	2,671	2,320	352	13.2
16 to 19 years.....	2,107	1,653	151	303	14.4	2,182	1,874	309	14.1
20 years and over.....	46,108	43,260	1,187	1,662	3.6	2,617	2,463	154	6.0
20 to 24 years.....	6,286	5,462	294	530	8.4	846	773	72	8.6
25 years and over.....	39,822	37,798	893	1,131	2.8	1,771	1,687	84	4.7
25 to 54 years.....	32,713	31,035	689	989	3.0	668	642	26	3.9
55 years and over.....	7,110	6,763	204	143	2.0	1,103	1,045	58	5.3
Females, 16 years and over.....	28,444	25,477	1,530	1,437	5.1	10,051	9,402	649	6.5
16 to 21 years.....	3,456	2,738	333	385	11.1	2,840	2,537	303	10.7
16 to 19 years.....	1,684	1,237	211	236	14.0	2,240	1,987	252	11.3
20 years and over.....	26,760	24,240	1,319	1,200	4.5	7,811	7,415	396	5.1
20 to 24 years.....	4,883	4,242	281	360	7.4	1,197	1,103	94	7.9
25 years and over.....	21,876	19,997	1,038	840	3.9	6,615	6,313	302	4.6
25 to 54 years.....	18,178	16,575	865	737	4.1	5,121	4,865	256	5.0
55 years and over.....	3,698	3,422	173	102	2.8	1,493	1,448	45	3.0
Black and other									
Males, 16 years and over.....	5,882	5,026	285	570	9.7	516	430	86	16.7
16 to 21 years.....	570	353	53	164	28.8	249	179	70	28.0
16 to 19 years.....	260	148	32	80	30.8	197	132	64	32.6
20 years and over.....	5,622	4,878	253	490	8.7	319	297	22	6.9
20 to 24 years.....	899	662	66	170	19.0	101	95	7	6.5
25 years and over.....	4,723	4,216	188	319	6.8	218	203	15	6.9
25 to 54 years.....	4,055	3,630	131	294	7.3	94	88	7	7.4
55 years and over.....	668	586	56	26	3.9	123	115	9	7.3
Females, 16 years and over.....	4,952	4,080	360	511	10.3	1,025	872	153	14.9
16 to 21 years.....	525	338	59	128	24.4	318	209	109	34.4
16 to 19 years.....	233	132	34	66	28.5	258	167	91	35.1
20 years and over.....	4,719	3,948	326	445	9.4	767	704	62	8.1
20 to 24 years.....	819	605	58	156	19.0	133	99	35	25.9
25 years and over.....	3,900	3,344	268	290	7.4	634	606	28	4.4
25 to 54 years.....	3,491	3,004	213	276	7.9	411	388	23	5.6
55 years and over.....	409	340	55	14	3.4	223	218	6	2.7

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

# HOUSEHOLD DATA

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

[Numbers in thousands]

Family relationship	December 1979									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over .....	103,884	63.8	98,047	5,836	5.6	58,925	32,197	8,881	2,787	15,061
Husbands <sup>1</sup> .....	40,961	81.0	39,784	1,177	2.9	9,577	206	218	1,141	8,013
With employed wife .....	21,415	91.9	20,878	537	2.5	1,895	47	116	381	1,351
With unemployed wife .....	1,030	94.3	923	106	10.3	62	2	3	21	36
With wife not in labor force .....	16,790	70.3	16,340	451	2.7	7,108	120	63	671	6,254
Wives .....	24,402	50.5	23,310	1,092	4.5	23,899	21,992	310	262	1,333
With employed husband .....	21,802	57.2	20,878	923	4.2	16,339	15,418	262	105	554
With unemployed husband .....	643	58.8	537	106	16.5	451	419	9	1	22
With husband not in labor force .....	1,957	21.6	1,895	62	3.2	7,108	6,154	39	156	758
Relatives in husband-wife families .....	13,813	60.5	12,236	1,577	11.4	9,013	1,323	6,020	333	1,337
16-19 years .....	6,393	55.8	5,531	863	13.5	5,065	130	4,628	15	292
20-24 years .....	4,741	73.0	4,258	483	10.2	1,750	198	1,283	37	232
25 years and over .....	2,679	54.9	2,447	231	8.6	2,198	995	109	281	813
Women who head families .....	5,190	60.0	4,768	422	8.1	3,462	2,782	115	148	417
Relatives in female-headed families .....	4,251	55.6	3,531	720	16.9	3,389	801	1,550	283	754
16-19 years .....	1,413	49.3	1,058	355	25.1	1,455	71	1,232	10	142
20-24 years .....	1,260	71.1	1,024	236	18.7	513	103	275	18	117
25 years and over .....	1,578	52.6	1,449	129	8.2	1,421	627	43	255	495
Persons not living in families <sup>2</sup> .....	15,267	61.4	14,418	848	5.6	9,585	5,093	668	620	3,207

<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	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
Total, 16 years and over .....	3,024	3,087	5.2	5.2	2,701	2,749	6.3	6.2
Married, spouse present .....	1,061	1,164	2.6	2.9	1,224	1,166	5.1	4.7
Widowed, divorced, or separated .....	293	327	6.3	6.8	507	529	6.3	6.3
Single (never married) .....	1,670	1,595	12.0	11.0	970	1,054	8.9	9.3
White, 16 years and over .....	2,371	2,430	4.5	4.6	2,051	2,085	5.5	5.4
Married, spouse present .....	908	988	2.5	2.7	1,039	1,005	4.8	4.5
Widowed, divorced, or separated .....	216	223	5.7	5.8	358	388	5.6	5.8
Single (never married) .....	1,247	1,220	10.4	9.7	654	693	7.1	7.2
Black and other, 16 years and over .....	653	656	10.3	10.3	650	664	11.3	11.1
Married, spouse present .....	153	177	4.3	4.9	185	161	7.6	6.3
Widowed, divorced, or separated .....	78	104	8.7	11.3	148	142	9.3	8.7
Single (never married) .....	423	375	22.4	19.8	316	361	18.5	20.2
Total, 20 to 64 years of age .....	2,149	2,277	4.1	4.3	2,026	2,075	5.4	5.3
Married, spouse present .....	1,000	1,099	2.6	2.9	1,146	1,069	4.9	4.5
Widowed, divorced, or separated .....	265	311	6.0	6.8	477	500	6.5	6.5
Single (never married) .....	885	868	9.5	8.7	403	506	5.9	6.9
White, 20 to 64 years of age .....	1,679	1,777	3.6	3.8	1,538	1,572	4.8	4.7
Married, spouse present .....	853	934	2.4	2.7	968	920	4.6	4.3
Widowed, divorced, or separated .....	196	211	5.5	5.8	335	362	5.8	5.9
Single (never married) .....	629	633	7.9	7.4	234	289	4.2	4.8
Black and other, 20 to 64 years of age .....	469	501	8.3	8.7	489	503	9.6	9.4
Married, spouse present .....	145	165	4.2	4.8	178	148	7.5	6.0
Widowed, divorced, or separated .....	69	100	8.3	11.3	143	138	9.6	9.0
Single (never married) .....	256	235	18.5	16.2	169	218	13.5	16.4

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
Total, 16 years and over	5,725	5,836	5.6	5.6	5.2	5.2	6.3	6.2
White-collar workers	1,537	1,509	3.1	2.9	2.1	1.9	3.9	3.8
Professional and technical	378	297	2.5	1.9	1.9	1.4	3.3	2.5
Managers and administrators, except farm	204	216	1.9	2.0	1.6	1.6	3.0	3.3
Sales workers	205	218	3.1	3.2	2.2	2.4	4.2	4.1
Clerical workers	751	777	4.1	4.1	3.4	3.1	4.3	4.4
Blue-collar workers	2,347	2,579	6.9	7.5	6.5	6.9	8.8	9.8
Craft and kindred workers	640	620	4.8	4.6	4.8	4.5	5.6	5.1
Carpenters and other construction craft	356	332	8.6	7.7	8.6	7.8	(1)	(1)
All other	284	288	3.1	3.1	2.9	2.9	5.1	4.8
Operatives, except transport	896	1,070	7.6	8.8	6.3	7.8	9.5	10.4
Transport equipment operatives	219	208	5.7	5.4	5.9	5.7	3.6	2.1
Nonfarm laborers	593	681	11.5	13.5	11.7	13.2	9.4	15.3
Construction laborers	211	213	20.2	20.4	20.2	20.0	(1)	(1)
All other	382	468	9.3	11.7	9.3	11.2	8.9	14.5
Service workers	1,052	900	7.5	6.5	7.2	6.4	7.7	6.5
Private household	69	62	5.5	5.2	(1)	(1)	5.3	5.1
All other	983	838	7.7	6.6	7.1	6.4	8.1	6.8
Farm workers	111	138	4.3	5.5	3.6	3.7	8.0	14.6
No previous work experience	678	710	--	--	--	--	--	--
16 to 19 years	486	470	--	--	--	--	--	--
20 to 24 years	111	156	--	--	--	--	--	--
25 years and over	81	86	--	--	--	--	--	--

<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	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
Total, 16 years and over	100.0	100.0	5.6	5.6	5.2	5.2	6.3	6.2
Nonagricultural private wage and salary workers	73.8	74.1	5.7	5.6	5.3	5.4	6.2	5.9
Mining	.5	.5	2.9	3.2	3.4	3.3	--	2.0
Construction	10.7	10.2	12.4	11.3	12.8	11.7	7.6	6.9
Manufacturing	20.1	23.1	5.1	5.8	3.9	4.9	7.6	7.9
Durable goods	10.1	12.9	4.3	5.4	3.9	5.0	5.7	6.6
Lumber and wood products	1.0	.7	8.5	6.4	7.4	6.6	16.0	5.2
Furniture and fixtures	.5	.3	4.8	3.6	4.2	3.6	5.7	3.6
Stone, clay, and glass products	.5	.8	3.8	5.8	4.3	5.0	2.4	8.9
Primary metal industries	.9	1.4	3.8	5.9	3.7	5.9	4.4	5.6
Fabricated metal products	1.0	1.6	4.0	5.9	4.2	5.2	3.3	8.4
Machinery, except electrical equipment	1.2	2.0	2.6	4.1	2.4	3.6	3.6	6.1
Electrical equipment	1.9	1.2	4.8	3.0	3.2	2.3	6.8	3.8
Transportation equipment	1.6	3.5	4.0	9.0	3.7	8.4	5.2	12.1
Automobiles	1.0	2.7	4.4	12.6	4.0	12.0	6.1	15.4
Other transportation equipment	.6	.8	3.4	4.5	3.4	3.7	3.6	8.2
Instruments and related products	.4	.3	3.9	2.9	5.2	1.6	2.0	4.7
Other durable goods industries	1.1	1.1	8.7	7.9	7.1	5.6	10.7	10.8
Nondurable goods	10.0	10.2	6.2	6.4	4.0	4.5	9.2	9.1
Food and kindred products	2.3	2.8	6.6	8.4	4.8	6.0	10.7	13.2
Textile mill products	.8	.7	5.2	4.4	3.8	3.9	7.0	5.0
Apparel and other textile products	2.6	2.3	10.0	9.6	6.0	4.5	11.0	10.8
Paper and allied products	.7	.5	5.4	3.7	3.3	2.9	11.2	6.0
Printing and publishing	1.4	1.1	5.3	4.2	4.3	3.9	6.8	4.7
Chemicals and allied products	.7	.9	3.4	4.0	2.4	3.0	5.7	6.6
Rubber and plastics products	.8	1.3	6.0	10.0	3.7	7.7	9.6	13.9
Other nondurable goods industries	.7	.7	6.1	6.1	3.9	4.3	9.5	9.1
Transportation and public utilities	3.1	3.9	3.3	4.1	3.2	4.0	3.7	4.5
Railroads and railway express	.2	.2	2.3	1.9	2.1	1.6	(1)	(1)
Other transportation	2.1	2.9	4.6	6.3	4.8	6.1	4.0	7.1
Communication and other public utilities	.8	.9	2.0	2.2	1.2	1.7	3.5	2.9
Wholesale and retail trade	20.7	19.1	6.3	5.8	5.5	5.2	7.1	6.4
Finance, insurance, and real estate	2.7	2.6	3.0	2.8	2.8	1.9	3.2	3.4
Service industries	16.1	14.7	5.5	5.0	5.2	4.8	5.6	5.1
Professional services	6.9	5.8	4.0	3.4	3.6	3.1	4.2	3.5
All other service industries	9.1	8.9	7.5	7.3	6.8	6.4	8.2	8.1
Agricultural wage and salary workers	2.5	3.0	10.6	12.4	9.3	8.8	15.8	28.0
All other classes of workers	11.7	10.7	2.7	2.5	2.4	2.1	3.1	3.0
No previous work experience	11.8	12.2	--	--	--	--	--	--

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

# HOUSEHOLD DATA

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
<b>UNEMPLOYMENT LEVEL</b>												
Total unemployed, in thousands.....	5,725	5,836	2,221	2,331	2,057	2,104	1,447	1,401	4,422	4,516	1,303	1,321
Job losers.....	2,504	2,794	1,367	1,600	790	876	347	318	1,971	2,209	533	585
On layoff.....	760	969	398	591	267	310	94	78	648	822	112	148
Other job losers.....	1,744	1,825	969	1,019	523	566	253	240	1,323	1,387	421	437
Job leavers.....	827	724	332	266	343	308	153	150	687	603	141	121
Reentrants.....	1,715	1,607	451	381	803	762	462	464	1,302	1,206	414	401
New entrants.....	678	710	71	84	121	157	485	470	462	497	215	213
<b>PERCENT DISTRIBUTION</b>												
Total unemployed.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers.....	43.8	47.9	61.5	68.6	38.4	41.7	24.0	22.7	44.6	48.9	40.9	44.3
On layoff.....	13.3	16.6	17.9	24.9	13.0	14.8	6.5	5.6	14.7	18.2	8.6	11.2
Other job losers.....	30.5	31.3	43.6	43.7	25.4	26.9	17.5	17.1	29.9	30.7	32.3	33.1
Job leavers.....	14.5	12.4	14.9	11.4	16.7	14.7	10.6	10.7	15.5	13.4	10.8	9.2
Reentrants.....	30.0	27.5	20.3	16.3	39.0	36.2	31.9	33.1	29.4	26.7	31.8	30.4
New entrants.....	11.8	12.2	3.2	3.6	5.9	7.4	33.5	33.5	10.5	11.0	16.5	16.1
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate.....	5.6	5.6	4.1	4.3	5.3	5.3	15.8	15.3	4.9	4.9	10.8	10.7
Job loser rate <sup>1</sup> .....	2.4	2.7	2.5	3.0	2.1	2.2	3.8	3.5	2.2	2.4	4.4	4.7
Job leaver rate <sup>1</sup> .....	.8	.7	.6	.5	.9	.8	1.7	1.6	.8	.7	1.2	1.0
Reentrant rate <sup>1</sup> .....	1.7	1.5	.8	.7	2.1	1.9	5.0	5.1	1.5	1.3	3.4	3.2
New entrant rate <sup>1</sup> .....	.7	.7	.1	.2	.3	.4	5.3	5.1	.5	.5	1.8	1.7

<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	December 1979						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
<b>Total, 16 years and over.....</b>	<b>5,836</b>	<b>100.0</b>	<b>44.7</b>	<b>35.2</b>	<b>20.1</b>	<b>11.8</b>	<b>8.3</b>
Job losers.....	2,794	100.0	41.3	36.4	22.3	13.2	9.1
On layoff.....	969	100.0	57.2	31.8	11.0	7.9	3.1
Other job losers.....	1,825	100.0	32.9	38.8	28.3	16.0	12.3
Job leavers.....	724	100.0	43.7	38.8	17.5	9.5	8.0
Reentrants.....	1,607	100.0	47.7	35.8	16.6	9.4	7.2
New entrants.....	710	100.0	52.2	25.7	22.0	14.1	7.9
<b>Males, 20 years and over.....</b>	<b>2,331</b>	<b>100.0</b>	<b>40.1</b>	<b>35.3</b>	<b>24.7</b>	<b>13.2</b>	<b>11.5</b>
Job losers.....	1,600	100.0	41.2	34.2	24.6	14.0	10.6
On layoff.....	581	100.0	56.8	30.9	12.3	9.2	3.1
Other job losers.....	1,019	100.0	32.3	36.1	31.6	16.8	14.8
Job leavers.....	266	100.0	41.6	37.6	20.8	9.3	11.5
Reentrants.....	381	100.0	38.3	38.1	23.6	10.5	13.1
New entrants.....	84	100.0	22.0	34.4	43.7	22.7	21.0
<b>Females, 20 years and over.....</b>	<b>2,104</b>	<b>100.0</b>	<b>42.1</b>	<b>37.5</b>	<b>20.4</b>	<b>12.2</b>	<b>8.2</b>
Job losers.....	876	100.0	37.9	39.4	22.7	14.1	8.6
On layoff.....	310	100.0	54.0	35.4	10.7	6.4	4.2
Other job losers.....	566	100.0	29.1	41.6	29.3	18.2	11.1
Job leavers.....	308	100.0	41.3	39.4	19.3	10.9	8.4
Reentrants.....	762	100.0	46.4	36.5	17.1	10.1	6.9
New entrants.....	157	100.0	46.0	28.0	26.0	14.8	11.2
<b>Both sexes, 16 to 19 years.....</b>	<b>1,401</b>	<b>100.0</b>	<b>56.3</b>	<b>31.7</b>	<b>12.0</b>	<b>8.9</b>	<b>3.2</b>
Job losers.....	318	100.0	51.5	38.6	9.9	6.9	3.0
On layoff.....	78	100.0	72.8	23.7	3.5	4.1	--
Other job losers.....	240	100.0	44.5	43.6	12.0	7.8	4.2
Job leavers.....	150	100.0	52.3	39.8	7.9	6.9	1.0
Reentrants.....	464	100.0	57.4	32.7	9.9	7.2	2.7
New entrants.....	470	100.0	59.7	23.5	16.8	12.4	4.5



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

Sex, age, and race	December 1979								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	5,836	4,797	26.5	5.5	70.8	30.5	13.1	5.9	1.52
16 to 19 years .....	1,401	1,316	20.0	1.8	80.1	21.2	9.5	4.6	1.37
20 to 24 years .....	1,424	1,131	29.1	7.6	71.9	32.5	16.2	4.4	1.62
25 to 34 years .....	1,341	1,054	32.2	6.8	67.6	38.9	12.4	6.3	1.64
35 to 44 years .....	737	587	31.0	7.7	62.4	31.7	12.4	7.0	1.52
45 to 54 years .....	531	402	26.9	5.2	65.4	32.1	15.4	7.0	1.52
55 to 64 years .....	321	252	16.7	2.8	63.5	28.6	17.5	11.1	1.40
65 years and over .....	83	56	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Males, 16 years and over .....	3,087	2,423	27.9	5.3	73.3	29.2	14.6	7.1	1.57
16 to 19 years .....	755	700	20.4	2.3	80.0	22.3	10.1	5.0	1.40
20 to 24 years .....	780	589	30.6	7.3	75.6	31.2	19.0	5.1	1.69
25 to 34 years .....	690	504	38.5	6.7	68.5	37.9	14.7	7.7	1.74
35 to 44 years .....	364	272	31.6	9.2	67.6	29.0	12.9	8.5	1.59
45 to 54 years .....	262	185	27.6	1.6	73.5	25.4	16.8	10.8	1.56
55 to 64 years .....	182	134	9.7	1.5	62.7	26.1	17.2	14.9	1.32
65 years and over .....	54	38	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over .....	2,749	2,374	25.1	5.6	68.2	31.8	11.5	4.6	1.47
16 to 19 years .....	646	616	19.5	1.3	80.2	20.0	8.6	4.1	1.34
20 to 24 years .....	644	542	27.5	7.9	67.9	33.9	13.1	3.7	1.54
25 to 34 years .....	651	549	26.4	6.9	67.0	39.5	10.4	4.9	1.56
35 to 44 years .....	372	315	30.2	6.3	57.8	34.0	12.1	5.7	1.46
45 to 54 years .....	268	216	25.9	8.3	58.8	37.5	14.4	3.7	1.49
55 to 64 years .....	139	117	23.9	3.4	65.0	31.6	17.9	6.8	1.49
65 years and over .....	29	18	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over .....	4,516	3,626	24.2	5.2	70.8	31.9	13.7	5.8	1.52
Males .....	2,430	1,859	25.9	4.6	74.0	30.6	14.8	7.0	1.57
Females .....	2,085	1,767	22.5	5.8	67.5	33.3	12.6	4.6	1.46
Black and other, 16 years and over .....	1,321	1,171	33.4	6.4	70.5	26.0	11.1	6.1	1.53
Males .....	656	564	34.2	7.8	70.6	24.5	14.0	7.3	1.58
Females .....	664	607	32.6	5.1	70.3	27.5	8.4	4.9	1.49

<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	December 1979								
	Thousands of persons		Methods used as a percent of total jobseekers						Average number of methods used
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	5,836	4,797	26.5	5.5	70.8	30.5	13.1	5.9	1.52
Job losers .....	2,794	1,817	34.5	5.1	69.9	31.8	15.2	8.1	1.65
Job leavers .....	724	734	28.5	6.8	71.8	36.6	11.9	3.3	1.59
Reentrants .....	1,607	1,540	19.5	6.0	67.4	30.3	11.6	6.3	1.41
New entrants .....	710	706	19.0	4.0	79.0	20.8	12.2	2.0	1.37
Males, 16 years and over .....	3,087	2,423	27.9	5.3	73.3	29.2	14.6	7.1	1.57
Job losers .....	1,812	1,168	33.7	5.6	70.6	31.2	16.2	9.9	1.67
Job leavers .....	360	359	28.1	4.5	73.5	32.0	11.1	3.9	1.53
Reentrants .....	605	585	20.7	5.0	74.7	28.9	15.9	6.0	1.51
New entrants .....	310	310	19.0	5.8	80.0	19.0	10.6	1.6	1.36
Females, 16 years and over .....	2,749	2,374	25.1	5.6	68.2	31.8	11.5	4.6	1.47
Job losers .....	982	649	35.7	4.0	68.4	33.1	13.6	4.6	1.59
Job leavers .....	365	375	28.8	8.8	70.1	41.1	12.5	2.4	1.64
Reentrants .....	1,003	955	18.8	6.7	63.0	31.2	9.0	6.5	1.35
New entrants .....	400	396	18.9	2.5	78.3	22.2	13.4	2.3	1.38

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	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
Total, 16 years and over .....	5,725	5,836	100.0	100.0	4,302	4,482	100.0	100.0
Less than 5 weeks .....	2,553	2,608	44.6	44.7	1,794	1,811	41.7	40.4
5 to 14 weeks .....	2,015	2,055	35.2	35.2	1,534	1,648	35.7	36.8
15 to 26 weeks .....	1,431	1,468	25.0	25.2	1,116	1,188	25.9	26.5
27 to 51 weeks .....	584	587	10.2	10.1	415	460	9.7	10.3
52 weeks and over .....	1,157	1,173	20.2	20.1	974	1,023	22.6	22.8
Average (mean) duration, in weeks .....	11.0	11.0	--	--	12.0	12.1	--	--
Median duration, in weeks .....	6.1	6.1	--	--	6.6	6.9	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
December 1979											
Total, 16 years and over .....	5,836	2,608	2,055	689	484	11.0	6.1	44.6	44.7	20.2	20.1
16 to 21 years .....	2,030	1,091	659	191	89	8.2	4.7	48.6	53.7	14.8	13.8
16 to 19 years .....	1,401	788	444	124	45	7.5	4.4	50.3	56.3	13.8	12.0
20 to 24 years .....	1,424	620	522	182	100	10.4	6.3	44.2	43.6	19.4	19.8
25 to 34 years .....	1,341	544	511	169	116	11.6	6.9	42.4	40.6	21.6	21.3
35 to 44 years .....	737	303	250	92	91	13.7	7.2	42.2	41.2	25.3	24.9
45 to 54 years .....	531	196	202	66	67	13.4	7.0	41.5	36.9	25.6	25.1
55 to 64 years .....	321	121	104	48	48	15.7	8.0	41.5	37.6	26.1	29.8
65 years and over .....	83	35	22	9	17	15.3	6.1	40.3	42.6	21.6	30.4
Males, 16 years and over .....	3,087	1,353	1,063	383	291	11.8	6.2	42.5	43.8	21.7	21.8
16 to 21 years .....	1,105	574	365	119	48	8.4	4.8	46.6	51.9	14.2	15.1
16 to 19 years .....	755	419	238	75	23	7.6	4.5	47.4	55.5	13.0	13.0
20 to 24 years .....	780	341	286	101	51	10.1	6.2	45.1	43.7	20.8	19.6
25 to 34 years .....	690	255	261	99	72	13.1	7.4	38.0	37.5	25.1	24.7
35 to 44 years .....	364	141	128	47	49	15.1	7.3	40.0	38.7	27.9	26.2
45 to 54 years .....	262	98	81	34	49	16.1	7.7	40.6	37.5	27.6	31.6
55 to 64 years .....	182	72	52	24	34	18.3	8.1	37.0	35.4	28.1	31.8
65 years and over .....	54	24	14	4	12	15.8	6.5	(1)	(1)	(1)	(1)
Females, 16 years and over .....	2,749	1,255	996	306	193	10.1	5.9	46.9	45.6	18.5	18.2
16 to 21 years .....	925	517	294	72	42	8.0	4.5	51.1	55.9	15.6	12.3
16 to 19 years .....	646	369	207	49	21	7.5	4.4	53.8	57.2	14.8	10.8
20 to 24 years .....	644	279	236	81	48	10.7	6.5	43.2	43.3	17.7	20.0
25 to 34 years .....	651	286	250	71	45	9.9	6.4	46.9	43.9	18.1	17.7
35 to 44 years .....	372	163	122	45	43	12.4	7.2	44.2	43.7	22.9	23.6
45 to 54 years .....	268	97	121	32	18	10.7	6.8	42.4	36.3	23.4	18.7
55 to 64 years .....	139	49	51	24	14	12.2	8.0	46.8	35.6	23.8	27.3
65 years and over .....	29	11	8	4	5	14.2	5.9	(1)	(1)	(1)	(1)
White, 16 years and over .....	4,516	2,118	1,565	517	316	10.3	5.6	46.4	46.9	18.3	18.4
Males .....	2,430	1,139	811	278	202	11.1	5.6	44.5	46.9	19.3	19.8
Females .....	2,085	979	754	238	113	9.3	5.6	48.7	47.0	17.2	16.9
Black and other, 16 years and over .....	1,321	490	490	172	168	13.6	8.3	38.4	37.1	26.6	25.8
Males .....	656	214	249	105	88	14.7	9.2	35.2	32.6	30.5	29.4
Females .....	664	276	241	67	80	12.5	7.4	41.6	41.5	22.7	22.2
Males, 16 years and over:											
Married, spouse present .....	1,164	501	374	146	143	13.1	6.5	38.9	43.0	23.9	24.8
Widowed, divorced, or separated .....	327	111	119	50	48	15.7	8.6	41.8	33.8	26.8	29.7
Single (never married) .....	1,595	742	566	187	100	10.1	5.7	44.9	46.5	19.5	18.0
Females, 16 years and over:											
Married, spouse present .....	1,166	540	429	137	60	9.3	5.8	46.6	46.3	17.8	16.9
Widowed, divorced, or separated .....	529	204	217	54	55	11.2	7.3	46.1	38.5	22.7	20.5
Single (never married) .....	1,054	511	349	115	78	10.5	5.3	47.9	48.5	17.3	18.3

<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

A-15. 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			Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
<b>OCCUPATION</b>											
White-collar workers .....	1,509	625	580	175	129	11.4	6.6	38.3	41.4	25.2	20.1
Professional and managerial .....	513	216	168	69	61	13.3	7.1	32.8	42.1	28.5	25.1
Sales workers .....	218	73	108	22	15	11.6	7.5	46.2	33.4	17.0	17.3
Clerical workers .....	777	336	304	84	53	10.1	6.1	40.4	43.2	24.9	17.6
Blue-collar workers .....	2,579	1,126	902	336	215	11.2	6.2	47.9	43.6	18.5	21.4
Craft and kindred workers .....	620	258	231	74	57	11.8	6.2	50.0	41.6	15.9	21.1
Operatives, except transport .....	1,070	482	357	151	81	10.7	6.2	45.2	45.0	21.7	21.7
Transport equipment operatives .....	208	79	77	30	21	13.1	7.1	48.3	38.1	19.0	24.7
Nonfarm laborers .....	681	307	237	81	56	11.0	5.8	49.4	45.1	16.2	20.2
Service workers .....	900	409	338	72	81	10.2	5.9	44.4	45.5	17.2	17.0
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	175	99	64	9	2	6.2	4.4	50.6	56.8	5.2	6.7
Construction .....	619	306	233	37	43	9.6	5.1	54.4	49.4	13.0	12.9
Manufacturing .....	1,351	565	474	197	115	11.3	6.7	44.1	41.8	22.2	23.1
Durable goods .....	754	312	263	120	58	11.3	6.5	36.5	41.4	25.8	23.7
Nondurable goods .....	598	253	211	77	57	11.2	6.9	49.9	42.3	18.5	22.4
Transportation and public utilities .....	247	109	76	24	39	14.0	6.0	42.0	43.9	29.1	25.5
Wholesale and retail trade .....	1,121	472	440	130	80	10.1	6.2	46.2	42.1	17.3	18.7
Finance and service industries .....	1,299	570	462	140	125	11.7	6.5	35.1	43.9	22.5	20.5
Public administration .....	201	60	96	35	10	11.4	8.6	31.9	29.8	31.1	22.6
No previous work experience .....	710	371	183	100	56	11.4	4.8	47.4	52.2	21.7	22.0

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

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

(In thousands)

Age and type of industry	Total		Males		Females	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
<b>All industries</b> .....	95,906	98,047	55,668	56,325	40,239	41,722
16 to 19 years .....	7,736	7,759	3,955	3,990	3,782	3,769
16 to 17 years .....	3,131	3,162	1,585	1,625	1,546	1,537
18 to 19 years .....	4,605	4,597	2,369	2,365	2,236	2,232
20 to 24 years .....	13,681	13,740	7,317	7,352	6,365	6,387
25 to 54 years .....	60,099	62,125	35,539	36,215	24,560	25,909
25 to 34 years .....	25,252	26,321	14,879	15,352	10,373	10,968
35 to 44 years .....	16,351	19,281	10,833	11,132	7,518	8,149
45 to 54 years .....	16,496	16,523	9,827	9,731	6,669	6,792
55 to 64 years .....	11,414	11,456	6,986	6,928	4,428	4,528
55 to 59 years .....	7,070	7,120	4,294	4,293	2,776	2,827
60 to 64 years .....	4,344	4,336	2,692	2,635	1,652	1,701
65 years and over .....	2,976	2,968	1,872	1,840	1,104	1,129
<b>Nonagricultural industries</b> .....	92,916	95,052	53,208	53,833	39,708	41,220
16 to 19 years .....	7,475	7,522	3,745	3,789	3,730	3,733
16 to 17 years .....	3,012	3,044	1,489	1,523	1,524	1,521
18 to 19 years .....	4,463	4,479	2,256	2,266	2,207	2,212
20 to 24 years .....	13,361	13,395	7,055	7,049	6,307	6,345
25 to 54 years .....	58,497	60,496	34,250	34,914	24,247	25,582
25 to 34 years .....	24,655	25,705	14,389	14,843	10,266	10,861
35 to 44 years .....	17,848	18,796	10,442	10,755	7,406	8,041
45 to 54 years .....	15,995	15,995	9,420	9,316	6,575	6,679
55 to 64 years .....	10,915	10,978	6,563	6,513	4,352	4,465
55 to 59 years .....	6,793	6,678	4,069	4,088	2,724	2,790
60 to 64 years .....	4,122	4,100	2,494	2,426	1,628	1,675
65 years and over .....	2,667	2,662	1,595	1,566	1,072	1,096
<b>Agriculture</b> .....	2,990	2,995	2,460	2,492	530	502
16 to 19 years .....	262	237	210	201	51	36
16 to 17 years .....	119	118	97	102	22	16
18 to 19 years .....	143	119	113	-	29	20
20 to 24 years .....	320	345	262	300	58	42
25 to 54 years .....	1,601	1,629	1,288	1,300	312	328
25 to 34 years .....	597	616	490	509	108	107
35 to 44 years .....	503	485	391	377	112	108
45 to 54 years .....	501	528	407	415	93	113
55 to 64 years .....	499	473	423	415	76	63
55 to 59 years .....	278	242	226	206	52	37
60 to 64 years .....	222	236	197	209	24	27
65 years and over .....	308	306	276	273	32	33

# HOUSEHOLD DATA

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

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
<b>TOTAL</b>	95,906	98,047	51,713	52,335	36,457	37,954	3,955	3,950	3,782	3,769
White-collar workers	48,852	50,683	22,381	22,762	23,795	25,169	665	729	2,011	2,023
Professional and technical	14,870	15,505	8,267	8,405	6,395	6,902	111	103	97	96
Health workers	2,717	2,853	923	952	1,774	1,883	2	5	18	14
Teachers, except college	3,232	3,373	904	970	2,291	2,378	12	4	25	21
Other professional and technical	8,921	9,279	6,440	6,483	2,330	2,641	97	94	54	61
Managers and administrators, except farm	10,289	10,529	7,813	7,774	2,368	2,637	64	51	44	67
Salaried workers	8,513	8,808	6,429	6,467	1,985	2,221	57	51	42	67
Self-employed workers in retail trade	858	810	604	533	251	276	2	1	1	--
Self-employed workers, except retail trade	918	911	780	773	133	139	5	--	--	--
Sales workers	6,337	6,653	3,159	3,257	2,460	2,563	223	303	495	530
Retail trade	3,436	3,598	1,031	1,055	1,762	1,786	184	253	459	505
Other industries	2,901	3,054	2,129	2,202	698	777	39	50	36	25
Clerical workers	17,356	17,997	3,142	3,326	12,572	13,067	267	274	1,374	1,330
Stenographers, typists, and secretaries	4,772	4,856	76	68	4,325	4,441	5	9	365	338
Other clerical workers	12,584	13,141	3,066	3,258	8,247	8,626	262	265	1,009	992
Blue-collar workers	31,654	32,012	23,510	23,749	5,476	5,663	2,202	2,186	466	415
Craft and kindred workers	12,597	12,973	11,415	11,701	675	736	458	500	49	36
Carpenters	1,259	1,245	1,187	1,158	6	18	65	67	1	2
Construction craft, except carpenters	2,510	2,717	2,380	2,567	27	42	96	104	6	4
Mechanics and repairers	3,361	3,362	3,151	3,123	53	53	152	182	5	5
Metal craft	1,322	1,335	1,230	1,251	48	44	44	39	--	2
Blue-collar worker supervisors, not elsewhere classified	1,707	1,891	1,516	1,661	182	210	9	15	--	4
All other	2,438	2,421	1,951	1,941	358	369	92	92	38	19
Operatives, except transport	10,863	11,035	5,835	5,976	4,097	4,138	641	638	289	283
Durable goods manufacturing	4,944	4,984	3,020	3,016	1,589	1,649	239	213	98	107
Nondurable goods manufacturing	3,535	3,440	1,384	1,331	1,916	1,899	101	102	133	109
Other industries	2,383	2,611	1,432	1,630	592	589	300	323	58	68
Transport equipment operatives	3,617	3,644	3,122	3,141	301	316	169	175	24	13
Drivers, motor vehicles	3,088	3,084	2,644	2,636	281	291	145	145	18	12
All other	529	560	477	505	21	25	24	29	6	--
Nonfarm laborers	4,577	4,360	3,137	2,930	402	473	934	873	104	84
Construction	834	831	673	651	16	18	137	161	7	1
Manufacturing	1,146	974	854	725	147	148	131	87	14	14
Other industries	2,597	2,555	1,610	1,554	239	307	666	625	83	69
Service workers	12,942	12,980	3,921	3,954	6,843	6,790	910	927	1,268	1,308
Private household workers	1,180	1,141	11	20	927	855	13	11	228	255
Service workers, except private household	11,762	11,838	3,909	3,934	5,916	5,936	897	916	1,040	1,053
Food service workers	4,249	4,314	742	812	2,231	2,243	567	539	708	720
Protective service workers	1,407	1,447	1,257	1,271	121	137	26	26	3	10
All other	6,106	6,077	1,910	1,851	3,564	3,556	304	349	329	323
Farm workers	2,459	2,372	1,901	1,871	343	332	178	148	37	22
Farmers and farm managers	1,414	1,378	1,279	1,240	114	126	19	11	2	1
Farm laborers and supervisors	1,045	995	622	631	228	206	160	137	35	21
Paid workers	828	781	598	606	94	70	110	92	26	13
Unpaid family workers	217	213	24	25	135	136	49	45	9	8

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

(Percent distribution)

Occupation and race	Total		Males		Females	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
<b>TOTAL</b>						
Total, 16 years and over (thousands) . . . . .	95,906	98,047	55,668	56,325	40,239	41,722
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers . . . . .	50.9	51.7	41.4	41.7	64.1	65.2
Professional and technical . . . . .	15.5	15.8	15.0	15.1	16.1	16.8
Managers and administrators, except farm . . . . .	10.7	10.7	14.1	13.9	6.0	6.5
Sales workers . . . . .	6.6	6.8	6.1	6.3	7.3	7.4
Clerical workers . . . . .	18.1	18.4	6.1	6.4	34.7	34.5
Blue-collar workers . . . . .	33.0	32.6	46.2	46.0	14.8	14.6
Craft and kindred workers . . . . .	13.1	13.2	21.3	21.7	1.8	1.8
Operatives, except transport . . . . .	11.3	11.3	11.6	11.7	10.9	10.6
Transport equipment operatives . . . . .	3.8	3.7	5.9	5.9	.8	.8
Nonfarm laborers . . . . .	4.8	4.4	7.3	6.8	1.3	1.3
Service workers . . . . .	13.5	13.2	8.7	8.7	20.2	19.4
Private household workers . . . . .	1.2	1.2	(1)	.1	2.9	2.7
Other service workers . . . . .	12.3	12.1	8.6	8.6	17.3	16.8
Farm workers . . . . .	2.6	2.4	3.7	3.6	.9	.8
Farmers and farm managers . . . . .	1.5	1.4	2.3	2.2	.3	.3
Farm laborers and supervisors . . . . .	1.1	1.0	1.4	1.4	.7	.5
<b>White</b>						
Total, 16 years and over (thousands) . . . . .	85,133	86,993	49,976	50,584	35,158	36,410
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers . . . . .	52.6	53.4	43.1	43.4	66.3	67.4
Professional and technical . . . . .	15.9	16.3	15.6	15.7	16.3	17.0
Managers and administrators, except farm . . . . .	11.5	11.4	15.0	14.7	6.4	6.9
Sales workers . . . . .	7.1	7.3	6.5	6.8	7.5	8.0
Clerical workers . . . . .	18.2	18.5	5.9	6.3	35.6	35.4
Blue-collar workers . . . . .	32.6	32.0	45.4	45.1	14.3	14.0
Craft and kindred workers . . . . .	13.7	13.7	22.0	22.1	1.9	1.9
Operatives, except transport . . . . .	10.8	10.7	11.2	11.3	10.3	10.0
Transport equipment operatives . . . . .	3.6	3.5	5.6	5.5	.6	.8
Nonfarm laborers . . . . .	4.4	4.1	6.6	6.1	1.2	1.2
Service workers . . . . .	12.2	12.0	7.8	7.9	18.5	17.8
Private household workers . . . . .	.9	.9	(1)	(1)	2.2	2.1
Other service workers . . . . .	11.3	11.1	7.7	7.9	16.3	15.7
Farm workers . . . . .	2.6	2.5	3.7	3.6	1.0	.9
Farmers and farm managers . . . . .	1.6	1.5	2.5	2.4	.3	.3
Farm laborers and supervisors . . . . .	1.0	.9	1.2	1.2	.7	.5
<b>Black and other</b>						
Total, 16 years and over (thousands) . . . . .	10,773	11,054	5,692	5,741	5,081	5,313
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers . . . . .	37.4	38.0	26.8	26.9	49.4	50.0
Professional and technical . . . . .	12.3	12.4	10.0	10.0	14.9	14.9
Managers and administrators, except farm . . . . .	4.9	5.4	6.7	7.2	3.0	3.5
Sales workers . . . . .	3.0	2.9	2.4	2.5	3.6	3.4
Clerical workers . . . . .	17.3	17.3	7.7	7.3	27.9	28.2
Blue-collar workers . . . . .	36.6	37.4	52.9	54.7	18.3	18.7
Craft and kindred workers . . . . .	8.9	9.7	15.6	17.6	1.3	1.2
Operatives, except transport . . . . .	15.2	15.4	15.5	15.9	14.8	14.9
Transport equipment operatives . . . . .	4.9	5.0	8.5	9.1	.8	.6
Nonfarm laborers . . . . .	7.7	7.2	13.2	12.1	1.5	2.0
Service workers . . . . .	23.7	22.7	16.5	15.3	31.8	30.7
Private household workers . . . . .	3.6	3.3	.1	.2	7.5	6.7
Other service workers . . . . .	20.1	19.4	16.4	15.1	24.3	24.0
Farm workers . . . . .	2.3	1.9	3.9	3.1	.5	.6
Farmers and farm managers . . . . .	.5	.4	.8	.6	.2	.1
Farm laborers and supervisors . . . . .	1.8	1.5	3.1	2.5	.3	.5

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

# HOUSEHOLD DATA

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

[In thousands]

Age and sex	December 1979								
	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 .....	87,942	1,264	15,655	71,022	6,740	370	1,237	1,526	231
16 to 19 years .....	7,409	287	538	6,584	95	18	163	19	54
16 to 17 years .....	2,995	221	164	2,610	39	10	76	6	36
18 to 19 years .....	4,414	66	374	3,974	56	8	88	12	19
20 to 24 years .....	13,058	77	1,555	11,426	320	16	247	75	23
25 to 34 years .....	24,081	149	4,469	19,462	1,557	66	328	256	32
35 to 44 years .....	17,024	143	3,635	13,246	1,668	105	187	257	41
45 to 54 years .....	14,477	218	3,069	11,191	1,441	76	134	348	46
55 to 64 years .....	9,806	235	2,032	7,539	1,111	61	107	344	27
65 to 69 years .....	6,143	135	1,280	4,729	707	28	51	174	18
60 to 64 years .....	3,663	100	753	2,811	404	33	56	170	10
65 years and over .....	2,086	156	357	1,574	548	28	71	228	8
Males, 16 years and over .....	49,120	150	7,663	41,307	4,678	35	1,046	1,374	72
16 to 19 years .....	3,733	46	224	3,463	43	13	136	18	47
16 to 17 years .....	1,505	36	82	1,387	12	6	63	6	33
18 to 19 years .....	2,229	10	143	2,076	31	7	73	12	14
20 to 24 years .....	6,826	9	643	6,174	218	5	214	71	17
25 to 34 years .....	13,791	13	2,159	11,619	1,047	5	268	235	6
35 to 44 years .....	9,570	17	1,776	7,778	1,184	1	157	220	--
45 to 54 years .....	8,310	18	1,647	6,645	1,003	3	107	306	2
55 to 64 years .....	5,708	22	1,008	4,678	801	4	96	319	--
65 to 69 years .....	3,570	13	640	2,918	516	1	48	158	--
60 to 64 years .....	2,138	9	369	1,760	285	3	48	161	--
65 years and over .....	1,181	24	206	951	381	4	68	205	--
Females, 16 years and over .....	38,822	1,115	7,993	29,715	2,062	335	191	152	159
16 to 19 years .....	3,676	240	314	3,122	52	6	28	1	8
16 to 17 years .....	1,490	185	82	1,223	26	4	13	--	3
18 to 19 years .....	2,185	56	231	1,898	25	1	14	--	5
20 to 24 years .....	6,231	68	912	5,251	102	12	33	4	6
25 to 34 years .....	10,290	136	2,310	7,844	510	61	60	21	26
35 to 44 years .....	7,454	126	1,859	5,468	484	104	30	37	41
45 to 54 years .....	6,168	200	1,422	4,545	438	73	28	42	44
55 to 64 years .....	4,098	213	1,024	2,862	310	57	11	25	27
65 to 69 years .....	2,573	122	640	1,811	190	27	3	16	18
60 to 64 years .....	1,525	91	384	1,051	119	30	8	9	10
65 years and over .....	905	131	151	623	167	24	2	23	8

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

[In thousands]

Industry	December 1979											
	White-collar workers					Blue-collar workers				Service workers		Farm workers
	Total employed	Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Total, 16 years and over:												
Agriculture .....	2,995	73	43	11	76	80	27	43	255	--	13	2,372
Mining .....	905	140	69	2	112	219	266	57	25	--	15	--
Construction .....	6,288	167	719	33	432	3,549	319	201	831	--	36	--
Manufacturing .....	22,232	2,482	1,607	517	2,624	4,369	8,424	784	974	--	450	--
Durable goods .....	13,425	1,646	961	177	1,512	2,874	4,984	391	610	--	268	--
Nondurable goods .....	8,807	835	646	340	1,112	1,495	3,440	392	364	--	182	--
Transportation and public utilities .....	6,401	622	647	69	1,417	1,380	165	1,494	465	--	143	--
Wholesale and retail trade .....	20,321	393	3,730	4,568	3,666	1,517	1,020	769	1,181	--	3,476	--
Wholesale trade .....	3,876	131	794	970	824	321	171	383	258	--	24	--
Retail trade .....	16,445	262	2,935	3,598	2,842	1,196	849	386	924	--	3,452	--
Finance, insurance, and real estate .....	5,811	360	1,085	1,279	2,631	120	12	19	56	--	250	--
Services .....	28,104	10,320	2,011	168	5,235	1,451	757	232	436	1,141	6,354	--
Private households .....	1,336	14	1	--	10	11	4	4	106	1,141	45	--
Other service industries .....	26,768	10,306	2,010	168	5,225	1,440	753	228	330	--	6,309	--
Public administration .....	4,990	949	617	5	1,804	287	46	45	137	--	1,100	--

**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>	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
Total, 16 years and over . . . . .	3,395	3,287	3,201	3,140	1,313	1,292	1,470	1,477
Vacation . . . . .	950	958	922	928	656	642	182	216
Illness . . . . .	1,345	1,309	1,303	1,274	517	488	657	666
Bad weather . . . . .	228	70	158	56	--	--	--	--
Industrial dispute . . . . .	64	131	65	131	--	--	--	--
All other reasons . . . . .	808	819	754	750	141	162	631	594
Males, 16 years and over . . . . .	2,003	1,894	1,832	1,766	844	828	739	721
Vacation . . . . .	595	631	572	607	444	455	83	108
Illness . . . . .	790	709	752	679	326	292	345	303
All other reasons <sup>3</sup> . . . . .	618	553	509	480	73	81	311	310
Females, 16 years and over . . . . .	1,392	1,394	1,369	1,374	471	465	730	755
Vacation . . . . .	355	326	350	321	213	187	99	109
Illness . . . . .	555	600	552	595	191	196	312	363
All other reasons <sup>3</sup> . . . . .	482	467	467	457	67	81	320	284

<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	December 1979					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
Total, 16 years and over . . . . .	94,760	91,913	2,847	100.0	100.0	100.0
1-34 hours . . . . .	22,445	21,643	802	23.7	23.5	28.2
1-4 hours . . . . .	765	735	30	.8	.8	1.1
5-14 hours . . . . .	4,414	4,233	181	4.7	4.6	6.4
15-29 hours . . . . .	11,184	10,759	426	11.8	11.7	15.0
30-34 hours . . . . .	6,082	5,916	165	6.4	6.4	5.8
35 hours and over . . . . .	72,316	70,270	2,046	76.3	76.5	71.8
35-39 hours . . . . .	6,592	6,493	99	7.0	7.1	3.5
40 hours . . . . .	39,830	39,287	543	42.0	42.7	19.1
41 hours and over . . . . .	25,894	24,490	1,404	27.3	26.6	49.3
41 to 48 hours . . . . .	10,435	10,195	240	11.0	11.1	8.4
49 to 59 hours . . . . .	9,034	8,608	426	9.5	9.4	15.0
60 hours and over . . . . .	6,425	5,687	738	6.8	6.2	25.9
Average hours, total at work . . . . .	38.8	38.6	44.4	--	--	--
Average hours, workers on full-time schedules . . . . .	43.3	43.0	52.2	--	--	--

## HOUSEHOLD DATA

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

(Numbers in thousands)

Reason for working less than 35 hours	December 1979					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	22,445	6,244	16,201	21,643	5,960	15,684
Economic reasons	3,513	1,615	1,898	3,279	1,456	1,823
Slack work	1,872	1,280	592	1,673	1,133	540
Material shortages or repairs to plant and equipment	88	88	--	84	84	--
New job started during week	161	161	--	154	154	--
Job terminated during week	86	86	--	84	84	--
Could find only part-time work	1,306	--	1,306	1,283	--	1,283
Other reasons	18,932	4,629	14,303	18,363	4,502	13,861
Does not want, or unavailable for, full-time work	12,002	--	12,002	11,673	--	11,673
Vacation	818	818	--	810	810	--
Illness	2,086	1,842	244	2,049	1,815	230
Bad weather	273	273	--	242	242	--
Industrial dispute	17	17	--	17	17	--
Legal or religious holiday	115	115	--	115	115	--
Full time for this job	1,512	--	1,512	1,449	--	1,449
All other reasons	2,110	1,565	545	2,006	1,497	509
Average hours:						
Economic reasons	21.6	23.5	20.0	21.7	23.7	20.1
Other reasons	20.6	26.7	18.6	20.6	26.8	18.6
Worked 30 to 34 hours:						
Economic reasons	1,037	648	389	982	604	378
Other reasons	5,045	2,623	2,422	4,934	2,577	2,357

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

(Numbers in thousands)

Industry	December 1979								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules						
				Total	40 hours or less	41 to 48 hours	49 hours or more			
Total, 16 years and over <sup>1</sup>	91,913	3,279	13,861	74,773	50,283	10,195	14,295	38.6	43.0	
Wage and salary workers	85,133	2,872	12,553	69,708	48,107	9,625	11,976	38.4	42.6	
Construction	4,907	293	257	4,357	3,142	554	661	39.3	41.8	
Manufacturing	21,045	525	747	19,773	13,577	3,215	2,981	41.2	42.4	
Durable goods	12,644	203	309	12,132	8,298	1,996	1,838	41.6	42.4	
Nondurable goods	8,402	322	437	7,643	5,281	1,218	1,144	40.5	42.4	
Transportation and public utilities	5,888	142	392	5,354	3,594	690	1,070	41.4	43.5	
Wholesale and retail trade	17,849	903	4,776	12,170	7,475	2,006	2,689	36.1	43.7	
Finance, insurance, and real estate	5,205	90	560	4,555	3,422	520	613	38.6	41.4	
Service industries	24,594	829	5,564	18,201	13,092	2,020	3,089	36.0	42.3	
Private households	1,224	147	676	401	264	39	98	23.2	44.2	
All other industries	23,370	682	4,888	17,800	12,828	1,981	2,991	36.7	42.3	
Public administration	4,818	74	242	4,502	3,343	503	656	40.6	42.2	
Self-employed workers	6,409	396	1,126	4,887	2,073	556	2,258	41.6	48.9	
Unpaid family workers	370	12	183	175	102	14	59	33.6	46.1	

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



## 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	December 1979							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over .....	91,913	3,279	13,861	74,773	50,283	24,490	38.6	43.0
16 to 21 years .....	12,284	669	4,969	6,646	5,172	1,574	30.2	41.1
16 to 19 years .....	7,360	410	3,942	3,008	2,000	661	26.6	40.6
16 to 17 years .....	2,992	88	2,521	383	322	61	18.9	38.5
18 to 19 years .....	4,368	322	1,420	2,626	2,025	601	31.9	40.9
20 years and over .....	84,553	2,870	9,920	71,763	47,935	23,828	39.6	43.1
20 to 24 years .....	13,055	674	1,946	10,435	7,501	2,934	37.5	42.0
25 years and over .....	71,499	2,196	7,974	61,329	40,435	20,894	40.1	43.3
25 to 44 years .....	43,214	1,365	4,147	37,702	24,414	13,288	40.6	43.5
45 to 64 years .....	25,779	726	2,622	22,431	15,195	7,236	40.2	43.2
65 years and over .....	2,506	106	1,205	1,195	823	372	29.3	42.4
Males, 16 years and over .....								
16 to 21 years .....	52,067	1,429	4,244	46,394	27,963	18,431	41.7	44.4
16 to 19 years .....	6,248	278	2,315	3,655	2,548	1,107	32.1	42.3
16 to 17 years .....	3,705	164	1,859	1,682	1,201	481	28.4	41.7
18 to 19 years .....	1,490	37	1,226	227	191	36	20.2	39.2
20 years and over .....	2,215	127	633	1,455	1,011	444	34.0	42.1
20 to 24 years .....	48,362	1,265	2,384	44,713	26,763	17,950	42.7	44.5
25 years and over .....	6,868	334	799	5,735	3,687	2,048	39.5	43.4
25 to 44 years .....	41,494	930	1,585	38,979	23,078	15,901	43.2	44.7
45 to 64 years .....	24,936	607	499	23,830	13,707	10,123	43.9	45.0
65 years and over .....	15,089	257	454	14,378	8,859	5,519	43.1	44.3
	1,470	66	631	773	512	261	30.9	43.0
Females, 16 years and over .....								
16 to 21 years .....	39,846	1,849	9,617	28,380	22,321	6,059	34.6	40.8
16 to 19 years .....	6,036	391	2,654	2,991	2,525	466	28.2	39.7
16 to 17 years .....	3,655	245	2,082	1,328	1,146	182	24.8	39.2
18 to 19 years .....	1,502	50	1,295	157	132	25	17.7	37.6
20 years and over .....	2,153	195	787	1,171	1,015	156	29.7	39.4
20 to 24 years .....	36,191	1,605	7,535	27,051	21,173	5,878	35.6	40.9
25 years and over .....	6,187	339	1,147	4,701	3,815	886	35.3	40.4
25 to 44 years .....	30,005	1,265	6,388	22,352	17,361	4,991	35.7	41.0
45 to 64 years .....	18,279	757	3,647	13,875	10,711	3,164	36.0	40.9
65 years and over .....	10,689	468	2,168	8,053	6,336	1,717	36.1	41.2
	1,036	39	573	424	312	112	26.9	41.4
RACE								
White .....	81,592	2,682	12,664	66,246	43,434	22,812	38.7	43.3
Males .....	46,799	1,179	3,866	41,754	24,450	17,304	41.9	44.7
Females .....	34,792	1,502	8,798	24,492	18,983	5,509	34.5	40.9
Black and other .....								
Males .....	10,321	598	1,197	8,526	6,850	1,676	37.6	41.4
Females .....	5,267	251	378	4,638	3,512	1,126	39.6	42.3
	5,054	347	819	3,888	3,338	550	35.6	40.2
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present .....	35,978	714	1,231	34,033	19,737	14,296	43.5	44.9
Widowed, divorced, or separated .....	4,079	146	202	3,731	2,341	1,390	42.1	44.1
Single (never married) .....	12,010	569	2,811	8,630	5,885	2,745	35.9	42.8
Females, 16 years and over:								
Married, spouse present .....	22,305	992	5,549	15,764	12,649	3,115	34.5	40.5
Widowed, divorced, or separated .....	7,509	376	1,082	6,051	4,499	1,552	37.3	41.3
Single (never married) .....	10,031	481	2,987	6,563	5,171	1,392	32.7	40.9

# HOUSEHOLD DATA

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

(Numbers in thousands)

Occupational group and sex	December 1979								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over .....	92,506	3,318	13,969	75,219	50,515	10,248	14,456	38.6	40.5
White-collar workers .....	49,216	1,028	7,277	40,911	26,832	5,131	8,948	39.4	43.4
Professional and technical .....	15,063	208	1,753	13,102	8,467	1,709	2,926	40.4	43.6
Managers and administrators, except farm .....	10,244	104	462	9,678	4,509	1,357	3,812	46.0	47.5
Sales workers .....	6,433	245	1,673	4,515	2,694	617	1,204	36.6	44.0
Clerical workers .....	17,476	470	3,389	13,617	11,161	1,449	1,007	35.7	40.2
Blue-collar workers .....	30,768	1,484	2,348	26,936	18,187	4,318	4,431	40.0	42.8
Craft and kindred workers .....	12,433	438	477	11,518	7,500	1,912	2,106	41.4	43.1
Operatives, except transport .....	10,670	547	676	9,447	6,762	1,542	1,143	39.7	41.9
Transport equipment operatives .....	3,483	164	336	2,983	1,686	467	830	41.9	45.6
Nonfarm laborers .....	4,182	335	859	2,988	2,238	397	353	34.9	41.4
Service workers .....	12,522	806	4,344	7,372	5,496	799	1,077	32.2	42.1
Private household .....	1,103	125	625	353	236	32	85	23.1	44.1
Other service workers .....	11,419	681	3,720	7,018	5,260	767	991	33.1	42.0
Males, 16 years and over .....	52,518	1,462	4,297	46,759	28,139	6,988	11,632	41.7	42.2
White-collar workers .....	22,894	267	1,546	21,081	11,258	2,942	6,881	43.8	45.9
Professional and technical .....	8,310	63	502	7,745	4,518	1,045	2,182	43.3	45.0
Managers and administrators, except farm .....	7,629	73	196	7,360	3,108	1,003	3,249	47.4	48.4
Sales workers .....	3,458	65	418	2,975	1,539	440	996	41.8	45.7
Clerical workers .....	3,497	66	429	3,002	2,095	454	453	38.8	42.2
Blue-collar workers .....	24,903	1,034	1,616	22,253	14,532	3,613	4,108	40.8	43.3
Craft and kindred workers .....	11,700	414	357	10,929	7,107	1,790	2,032	41.6	43.1
Operatives, except transport .....	6,397	202	343	5,852	3,883	1,023	946	41.2	43.0
Transport equipment operatives .....	3,162	136	198	2,828	1,582	440	806	43.0	45.8
Nonfarm laborers .....	3,643	281	719	2,643	1,961	359	323	35.3	41.5
Service workers .....	4,721	161	1,135	3,425	2,349	433	643	36.1	43.3
Private household .....	32	2	17	13	4	3	6	26.6	51.3
Other service workers .....	4,690	161	1,118	3,411	2,344	430	637	36.2	43.3
Females, 16 years and over .....	39,987	1,855	9,674	28,458	22,372	3,261	2,825	34.6	37.7
White-collar workers .....	26,322	761	5,731	19,830	15,573	2,190	2,067	35.6	40.8
Professional and technical .....	6,753	146	1,251	5,356	3,949	664	743	36.7	41.4
Managers and administrators, except farm .....	2,616	32	266	2,318	1,400	354	564	41.8	44.6
Sales workers .....	2,974	180	1,255	1,539	1,155	176	208	30.6	40.9
Clerical workers .....	13,979	404	2,960	10,615	9,067	995	553	34.9	39.6
Blue-collar workers .....	5,865	450	733	4,682	3,652	705	325	36.6	40.5
Craft and kindred workers .....	732	23	121	588	392	122	74	37.7	42.2
Operatives, except transport .....	4,272	345	334	3,593	2,877	515	197	37.3	40.2
Transport equipment operatives .....	321	28	138	155	105	27	23	31.2	42.2
Nonfarm laborers .....	539	54	140	345	278	37	30	32.3	40.4
Service workers .....	7,800	644	3,210	3,946	3,147	366	433	29.9	41.1
Private household .....	1,071	125	608	338	231	28	79	23.0	43.8
Other service workers .....	6,730	520	2,602	3,608	2,917	337	354	31.0	40.8

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

[Numbers in thousands]

Employment status	December 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population . . . . .	7,777	3,956	3,821	6,478	3,304	3,175	1,299	653	646
Civilian labor force . . . . .	1,296	656	640	1,208	606	602	89	50	38
Employed . . . . .	1,094	538	556	1,043	509	534	51	29	22
Agriculture . . . . .	78	65	13	78	65	13	--	--	--
Nonagricultural industries . . . . .	1,015	473	542	965	444	521	50	29	21
Unemployed . . . . .	202	118	84	165	97	68	38	21	17
Unemployment rate . . . . .	15.6	18.0	13.1	13.7	16.0	11.3	42.7	(1)	(1)
Not in labor force . . . . .	6,481	3,300	3,181	5,271	2,698	2,573	1,210	602	608
Keeping house . . . . .	46	9	37	43	8	34	4	1	3
Going to school . . . . .	6,346	3,232	3,114	5,158	2,644	2,515	1,188	588	599
Unable to work . . . . .	3	3	--	3	3	--	--	--	--
All other reasons . . . . .	86	56	30	67	43	24	19	13	6

<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	December 1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
<b>Total</b>	1,094	538	556	100.0	100.0	100.0
Nonagricultural industries . . . . .	1,015	473	542	92.7	87.9	97.5
Wage and salary workers . . . . .	930	410	520	84.9	76.2	93.5
Private household workers . . . . .	344	48	296	31.4	8.9	53.2
Government workers . . . . .	57	31	26	5.2	5.8	4.7
Other wage and salary workers . . . . .	529	331	198	48.3	61.5	35.6
Self-employed workers . . . . .	84	60	20	7.3	11.2	3.6
Unpaid family workers . . . . .	6	3	3	.5	.6	.5
Agriculture . . . . .	78	65	13	7.1	12.1	2.3
Wage and salary workers . . . . .	47	40	7	4.3	7.4	1.3
Self-employed workers . . . . .	3	2	--	.3	.4	--
Unpaid family workers . . . . .	29	23	6	2.6	4.3	1.1
<b>OCCUPATION</b>						
<b>Total</b>	1,094	538	556	100.0	100.0	100.0
White-collar workers . . . . .	317	192	125	29.0	35.8	22.5
Professional and technical . . . . .	13	7	6	1.2	1.3	1.1
Managers and administrators, except farm . . . . .	4	4	--	.4	.7	--
Sales workers . . . . .	217	157	60	19.9	29.2	10.8
Clerical workers . . . . .	83	24	59	7.6	4.5	10.6
Blue-collar workers . . . . .	143	125	19	13.1	23.3	3.4
Craft and kindred workers . . . . .	11	10	2	1.0	1.9	.4
Operatives, except transport . . . . .	33	22	11	3.0	4.1	2.0
Transport equipment operatives . . . . .	6	6	--	.5	1.1	--
Nonfarm laborers . . . . .	92	86	6	8.4	16.0	1.1
Service workers . . . . .	567	167	400	51.9	31.1	71.9
Private household workers . . . . .	323	22	301	29.6	4.1	54.1
Other service workers . . . . .	244	145	99	22.3	27.0	17.8
Farm workers . . . . .	67	54	12	6.1	10.1	2.2
Farmers and farm managers . . . . .	1	--	--	.1	--	--
Farm laborers and supervisors . . . . .	66	54	12	6.0	10.1	2.2

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Numbers in thousands]

Employment status	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	162,250	162,448	162,633	162,909	163,008	163,260	163,469	163,685	163,891	164,106	164,468	164,682	164,898
Armed Forces <sup>1</sup> .....	2,108	2,094	2,094	2,090	2,082	2,078	2,076	2,082	2,090	2,092	2,093	2,092	2,089
Civilian noninstitutional population <sup>1</sup> .....	160,142	160,353	160,539	160,819	160,926	161,182	161,393	161,604	161,801	162,013	162,375	162,589	162,809
Civilian labor force .....	101,815	102,061	102,379	102,505	102,198	102,398	102,476	103,093	103,128	103,494	103,595	103,652	103,999
Percent of civilian population .....	63.6	63.6	63.8	63.7	63.5	63.5	63.5	63.8	63.7	63.9	63.8	63.8	63.9
Employed .....	95,831	96,157	96,496	96,623	96,254	96,495	96,652	97,184	97,004	97,504	97,474	97,608	97,912
Percent of total population .....	59.1	59.2	59.3	59.3	59.0	59.1	59.1	59.4	59.2	59.4	59.3	59.3	59.4
Agriculture .....	3,375	3,260	3,307	3,320	3,215	3,246	3,243	3,267	3,315	3,364	3,294	3,385	3,359
Nonagricultural industries .....	92,456	92,897	93,189	93,303	93,039	93,249	93,409	93,917	93,689	94,140	94,160	94,223	94,553
Unemployed .....	5,984	5,904	5,883	5,882	5,944	5,903	5,824	5,909	6,124	5,990	6,121	6,044	6,087
Unemployment rate .....	5.9	5.8	5.7	5.7	5.8	5.8	5.7	5.7	5.9	5.8	5.9	5.8	5.9
Not in labor force .....	58,327	58,292	58,160	58,314	58,728	58,784	58,917	58,511	58,673	58,519	58,780	58,937	58,810
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	69,288	69,385	69,476	69,612	69,663	69,787	69,889	69,995	70,099	70,205	70,380	70,487	70,594
Civilian noninstitutional population <sup>1</sup> .....	67,600	67,726	67,816	67,939	67,997	68,123	68,227	68,319	68,417	68,522	68,697	68,804	68,940
Civilian labor force .....	54,059	54,191	54,349	54,315	54,239	54,288	54,370	54,579	54,597	54,735	54,760	54,709	54,781
Percent of civilian population .....	80.0	80.0	80.1	79.9	79.8	79.7	79.7	79.9	79.8	79.9	79.7	79.5	79.5
Employed .....	51,861	52,024	52,211	52,151	52,049	52,158	52,201	52,325	52,311	52,453	52,443	52,374	52,478
Percent of total population .....	74.8	75.0	75.1	74.9	74.7	74.7	74.7	74.8	74.6	74.7	74.5	74.3	74.3
Agriculture .....	2,387	2,303	2,329	2,350	2,295	2,301	2,305	2,327	2,375	2,377	2,371	2,438	2,427
Nonagricultural industries .....	49,474	49,721	49,882	49,801	49,754	49,857	49,896	49,998	49,936	50,076	50,072	49,936	50,051
Unemployed .....	2,198	2,167	2,138	2,164	2,190	2,130	2,169	2,254	2,286	2,282	2,317	2,335	2,303
Unemployment rate .....	4.1	4.0	3.9	4.0	4.0	3.9	4.0	4.1	4.2	4.2	4.2	4.3	4.2
Not in labor force .....	13,541	13,535	13,467	13,624	13,758	13,835	13,857	13,740	13,820	13,787	13,937	14,095	14,159
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	76,227	76,337	76,440	76,589	76,645	76,782	76,896	77,014	77,127	77,245	77,429	77,547	77,666
Civilian noninstitutional population <sup>1</sup> .....	76,119	76,228	76,332	76,476	76,532	76,670	76,784	76,897	77,006	77,124	77,308	77,426	77,542
Civilian labor force .....	38,156	38,207	38,399	38,574	38,415	38,619	38,653	39,033	39,304	39,239	39,362	39,445	39,559
Percent of civilian population .....	50.1	50.1	50.3	50.4	50.2	50.4	50.3	50.8	51.0	50.9	50.9	50.9	51.1
Employed .....	35,944	36,012	36,197	36,362	36,216	36,411	36,457	36,873	37,000	37,075	37,112	37,248	37,402
Percent of total population .....	47.2	47.2	47.4	47.5	47.3	47.4	47.4	47.9	48.0	48.0	47.9	48.0	48.2
Agriculture .....	598	596	593	595	572	577	583	585	600	628	572	612	582
Nonagricultural industries .....	35,346	35,416	35,604	35,767	35,644	35,834	35,874	36,288	36,400	36,447	36,540	36,636	36,820
Unemployed .....	2,212	2,195	2,202	2,212	2,199	2,208	2,196	2,160	2,304	2,164	2,250	2,197	2,257
Unemployment rate .....	5.8	5.7	5.7	5.7	5.7	5.7	5.7	5.5	5.9	5.5	5.7	5.6	5.7
Not in labor force .....	37,963	38,021	37,933	37,902	38,117	38,051	38,131	37,864	37,702	37,885	37,946	37,981	37,883
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,734	16,725	16,717	16,709	16,700	16,692	16,684	16,677	16,665	16,655	16,659	16,648	16,638
Civilian noninstitutional population <sup>1</sup> .....	16,422	16,400	16,391	16,404	16,397	16,389	16,381	16,387	16,377	16,367	16,370	16,360	16,326
Civilian labor force .....	9,600	9,663	9,631	9,616	9,544	9,491	9,453	9,481	9,227	9,520	9,473	9,498	9,559
Percent of civilian population .....	58.5	58.9	58.8	58.6	58.2	57.9	57.7	57.9	56.3	58.2	57.9	58.1	58.6
Employed .....	8,026	8,121	8,088	8,110	7,989	7,926	7,994	7,986	7,693	7,976	7,915	7,986	8,032
Percent of total population .....	48.0	48.6	48.4	48.5	47.8	47.5	47.9	47.9	46.2	47.9	47.5	48.0	48.3
Agriculture .....	390	361	385	375	348	368	355	355	340	359	351	335	350
Nonagricultural industries .....	7,636	7,760	7,703	7,735	7,641	7,558	7,639	7,631	7,353	7,617	7,568	7,651	7,682
Unemployed .....	1,574	1,542	1,543	1,506	1,555	1,565	1,459	1,495	1,534	1,544	1,554	1,512	1,527
Unemployment rate .....	16.4	16.0	16.0	15.7	16.3	16.5	15.4	15.8	16.6	16.2	16.4	15.9	16.0
Not in labor force .....	6,822	6,737	6,760	6,788	6,853	6,898	6,928	6,906	7,150	6,847	6,897	6,862	6,767

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

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

Seasonally adjusted data in this table have been revised. See article on page 9.

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

Full- and part-time employment status	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>FULL TIME</b>													
Total, 16 years and over:													
Civilian labor force	86,697	86,953	87,264	87,408	87,412	87,397	87,501	87,749	87,685	88,134	88,394	88,469	88,576
Employed	82,088	82,439	82,699	82,869	82,775	82,864	82,986	83,132	82,958	83,419	83,598	83,699	83,785
Unemployed	4,609	4,514	4,565	4,539	4,637	4,533	4,515	4,617	4,727	4,715	4,796	4,770	4,791
Unemployment rate	5.3	5.2	5.2	5.2	5.3	5.2	5.2	5.3	5.4	5.3	5.4	5.4	5.4
<b>PART TIME</b>													
Total, 16 years and over:													
Civilian labor force	15,074	15,121	15,147	15,024	14,806	14,962	15,064	15,448	15,535	15,275	15,165	15,158	15,411
Employed	13,696	13,748	13,810	13,673	13,515	13,573	13,762	14,161	14,163	13,987	13,822	13,906	14,102
Unemployed	1,378	1,373	1,337	1,351	1,291	1,389	1,302	1,287	1,372	1,288	1,343	1,252	1,309
Unemployment rate	9.1	9.1	8.8	9.0	8.7	9.3	8.6	8.3	8.8	8.4	8.9	8.3	8.5

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.

Data in this table have been revised. See article on page 9.

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

(Numbers in thousands)

Characteristics	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>WHITE</b>													
Total, 16 years and over:													
Civilian labor force	89,668	89,973	90,250	90,260	89,996	90,120	90,215	90,659	90,759	91,082	91,147	91,242	91,579
Employed	85,069	85,434	85,786	85,754	85,497	85,632	85,775	86,120	85,976	86,425	86,454	86,571	86,894
Unemployed	4,599	4,539	4,464	4,506	4,499	4,488	4,440	4,539	4,783	4,657	4,693	4,671	4,685
Unemployment rate	5.1	5.0	4.9	5.0	5.0	5.0	4.9	5.0	5.3	5.1	5.1	5.1	5.1
Males, 20 years and over:													
Civilian labor force	48,202	48,387	48,545	48,460	48,400	48,421	48,525	48,634	48,646	48,727	48,752	48,754	48,811
Employed	46,496	46,686	46,908	46,789	46,721	46,797	46,831	46,873	46,833	46,920	46,548	46,939	47,025
Unemployed	1,706	1,701	1,637	1,671	1,679	1,624	1,694	1,761	1,813	1,807	1,604	1,815	1,786
Unemployment rate	3.5	3.5	3.4	3.4	3.5	3.4	3.5	3.6	3.7	3.7	3.7	3.7	3.7
Females, 20 years and over:													
Civilian labor force	32,928	32,966	33,151	33,238	33,122	33,286	33,288	33,604	33,879	33,858	33,946	33,979	34,205
Employed	31,244	31,320	31,489	31,569	31,479	31,617	31,649	31,986	32,126	32,223	32,249	32,310	32,492
Unemployed	1,684	1,646	1,662	1,669	1,643	1,669	1,639	1,618	1,753	1,635	1,697	1,669	1,713
Unemployment rate	5.1	5.0	5.0	5.0	5.0	5.0	4.9	4.8	5.2	4.8	5.0	4.9	5.0
Both sexes, 16 to 19 years:													
Civilian labor force	8,538	8,620	8,554	8,562	8,474	8,413	8,402	8,421	8,234	8,497	8,449	8,509	8,563
Employed	7,329	7,428	7,349	7,396	7,297	7,218	7,295	7,261	7,017	7,282	7,257	7,322	7,377
Unemployed	1,209	1,192	1,165	1,166	1,177	1,195	1,107	1,160	1,217	1,215	1,192	1,187	1,186
Unemployment rate	14.2	13.8	13.6	13.6	13.9	14.2	13.2	13.8	14.8	14.3	14.1	13.9	13.9
<b>BLACK AND OTHER</b>													
Total, 16 years and over:													
Civilian labor force	12,141	12,101	12,177	12,238	12,191	12,219	12,260	12,386	12,343	12,404	12,512	12,391	12,432
Employed	10,752	10,736	10,746	10,860	10,767	10,816	10,887	11,023	10,982	11,063	11,076	11,044	11,024
Unemployed	1,389	1,365	1,431	1,378	1,424	1,403	1,373	1,363	1,361	1,341	1,436	1,347	1,408
Unemployment rate	11.4	11.3	11.8	11.3	11.7	11.5	11.2	11.0	11.0	10.8	11.5	10.9	11.3
Males, 20 years and over:													
Civilian labor force	5,845	5,809	5,830	5,852	5,823	5,847	5,889	5,961	5,956	5,989	6,003	5,927	5,954
Employed	5,357	5,343	5,327	5,340	5,324	5,358	5,414	5,463	5,471	5,510	5,486	5,429	5,439
Unemployed	488	466	503	512	499	489	475	498	485	479	517	498	515
Unemployment rate	8.3	8.0	8.6	8.7	8.6	8.4	8.1	8.4	8.1	8.0	8.6	8.4	8.6
Females, 20 years and over:													
Civilian labor force	5,231	5,239	5,260	5,333	5,296	5,309	5,357	5,398	5,395	5,388	5,476	5,455	5,467
Employed	4,699	4,687	4,711	4,799	4,739	4,779	4,799	4,857	4,842	4,858	4,920	4,937	4,921
Unemployed	532	552	549	534	557	530	558	541	553	530	556	518	546
Unemployment rate	10.2	10.5	10.4	10.0	10.5	10.0	10.4	10.0	10.3	9.8	10.2	9.5	10.0
Both sexes, 16 to 19 years:													
Civilian labor force	1,065	1,053	1,087	1,053	1,072	1,063	1,014	1,027	992	1,027	1,033	1,009	1,011
Employed	696	706	708	721	704	679	674	703	669	695	670	678	664
Unemployed	369	347	379	332	368	384	340	324	323	332	363	331	347
Unemployment rate	34.6	33.0	34.9	31.5	34.3	36.1	33.5	31.5	32.6	32.3	35.1	32.8	34.3

NOTE: Data in this table have been revised. See article on page 9.

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Unemployment rates]

Selected categories	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	5.9	5.6	5.7	5.7	5.8	5.8	5.7	5.7	5.9	5.8	5.9	5.8	5.9
Males, 20 years and over .....	4.1	4.0	3.9	4.0	4.0	3.9	4.0	4.1	4.2	4.2	4.2	4.3	4.2
Females, 20 years and over .....	5.8	5.7	5.7	5.7	5.7	5.7	5.7	5.5	5.9	5.5	5.7	5.6	5.7
Both sexes, 16-19 years .....	16.4	16.0	16.0	15.7	16.3	16.5	15.4	15.8	16.6	16.2	16.4	15.9	16.0
White .....	5.1	5.0	4.9	5.0	5.0	5.0	4.9	5.0	5.3	5.1	5.1	5.1	5.1
Black and other .....	11.4	11.3	11.8	11.3	11.7	11.5	11.2	11.0	11.0	10.8	11.5	10.9	11.3
Married men, spouse present .....	2.6	2.6	2.6	2.6	2.7	2.5	2.7	2.8	2.9	2.9	2.9	2.9	2.8
Married women, spouse present .....	5.5	5.3	5.3	5.2	5.2	5.2	5.1	4.9	5.3	4.8	5.2	4.8	5.0
Women who head families .....	7.9	8.0	8.3	8.2	8.3	8.6	9.0	8.1	7.9	7.7	8.4	8.4	8.4
Full-time workers .....	5.3	5.2	5.2	5.2	5.3	5.2	5.2	5.3	5.4	5.3	5.4	5.4	5.4
Part-time workers .....	9.1	9.1	8.8	9.0	8.7	9.3	8.6	8.3	8.8	8.4	8.9	8.3	8.5
Unemployed 15 weeks and over <sup>1</sup> .....	1.2	1.2	1.2	1.3	1.2	1.2	1.1	1.0	1.1	1.1	1.2	1.1	1.2
Labor force time lost <sup>2</sup> .....	6.3	6.2	6.2	6.2	6.4	6.3	6.3	6.4	6.4	6.2	6.4	6.4	6.4
<b>OCCUPATION</b>													
White-collar workers .....	3.5	3.4	3.4	3.3	3.3	3.2	3.4	3.3	3.5	3.3	3.4	3.2	3.3
Professional and technical .....	3.0	2.5	2.4	2.2	2.3	2.1	2.5	2.5	2.5	2.4	2.7	2.4	2.3
Managers and administrators, except farm .....	1.9	2.0	2.0	2.1	2.3	2.2	2.1	2.0	2.3	2.2	2.2	1.9	2.0
Sales workers .....	3.7	4.0	4.2	4.1	4.0	4.0	4.4	3.5	4.0	3.8	3.8	3.7	3.8
Clerical workers .....	4.7	4.7	4.7	4.8	4.5	4.5	4.6	4.5	4.9	4.5	4.7	4.4	4.6
Blue-collar workers .....	6.7	6.5	6.5	6.6	6.9	6.8	6.6	6.8	7.3	7.1	7.2	7.5	7.2
Craft and kindred workers .....	4.6	4.4	4.5	4.5	4.4	4.2	4.3	4.4	4.7	4.3	4.6	4.9	4.4
Operatives, except transport .....	7.8	7.8	7.8	7.8	8.5	8.2	7.7	8.3	8.9	9.0	9.1	9.0	9.0
Transport equipment operatives .....	5.3	5.0	5.0	5.2	5.9	5.4	5.7	5.1	6.2	6.1	5.6	5.2	5.0
Nonfarm laborers .....	10.4	9.7	9.7	10.2	10.6	11.1	10.6	11.0	11.3	11.0	10.7	12.2	12.2
Service workers .....	7.7	7.7	7.3	7.3	7.3	7.2	7.2	7.1	7.1	6.7	6.6	6.6	6.6
Farm workers .....	3.3	2.9	3.4	3.3	3.4	3.6	3.2	4.2	3.9	4.1	4.3	4.5	4.3
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	5.8	5.7	5.6	5.6	5.7	5.7	5.6	5.7	6.0	5.8	5.9	5.8	5.8
Construction .....	11.4	10.3	10.9	10.1	10.5	10.0	10.0	10.0	10.1	9.6	9.9	10.2	10.3
Manufacturing .....	5.1	5.1	4.9	5.2	5.3	5.4	5.4	5.7	5.9	6.0	6.0	5.9	5.9
Durable goods .....	4.4	4.4	4.2	4.4	4.7	4.4	4.9	5.4	5.4	5.3	5.5	5.6	5.5
Nondurable goods .....	6.1	6.1	5.9	6.4	6.3	6.9	6.3	6.2	6.8	7.1	6.8	6.3	6.4
Transportation .....	3.3	3.5	3.2	3.9	3.0	3.6	3.1	3.8	3.7	4.0	3.8	4.2	4.1
Wholesale and retail trade .....	6.9	6.6	6.5	6.3	6.6	6.4	6.7	6.3	6.5	6.4	6.4	6.5	6.4
Finance and service industries .....	5.1	5.1	4.8	4.8	4.8	4.9	4.7	4.9	5.2	4.7	4.9	4.6	4.7
Government workers .....	3.9	3.9	3.8	4.1	3.7	3.6	3.6	3.6	3.7	3.3	4.0	3.6	3.6
Agricultural wage and salary workers .....	8.0	7.5	8.6	8.0	8.7	9.3	7.8	9.7	9.9	10.0	9.9	10.1	9.4

<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.

NOTE: Data in this table have been revised. See article on page 9.

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

[Numbers in thousands]

Weeks of unemployment	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>DURATION</b>													
Both sexes, 16 years and over:													
Less than 5 weeks .....	2,858	2,751	2,779	2,769	2,876	2,823	2,880	2,820	3,168	2,778	2,955	2,919	2,916
5 to 14 weeks .....	1,937	1,881	1,877	1,860	1,884	1,919	1,808	1,934	1,738	2,035	1,963	1,869	1,966
15 weeks and over .....	1,217	1,225	1,235	1,291	1,223	1,212	1,152	1,067	1,185	1,152	1,195	1,191	1,230
15 to 26 weeks .....	732	708	700	729	687	705	656	615	658	644	678	660	711
27 weeks and over .....	485	521	539	562	536	507	496	452	527	508	517	531	519
Average (mean) duration, in weeks .....	10.6	11.2	11.3	11.8	11.0	10.9	10.5	10.1	10.7	10.7	10.5	10.6	10.5
Median duration, in weeks .....	5.5	5.8	5.9	5.8	5.4	5.6	5.6	6.0	4.9	5.8	5.5	5.3	5.5
<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 .....	47.5	46.9	47.1	46.8	48.1	47.4	49.3	48.4	52.0	46.6	46.3	48.8	47.7
5 to 14 weeks .....	32.2	32.1	31.8	31.4	31.5	32.2	31.0	33.2	28.5	34.1	32.1	31.3	32.2
15 weeks and over .....	20.2	21.0	21.0	21.8	20.4	20.4	19.7	18.3	19.5	19.3	19.5	19.9	20.1
15 to 26 weeks .....	12.2	12.1	11.9	12.3	11.5	11.8	11.2	10.6	10.8	10.8	11.1	11.0	11.6
27 weeks and over .....	8.1	8.9	9.1	9.5	9.0	8.5	8.5	7.8	8.7	6.5	6.5	8.9	8.5

NOTE: Data in this table have been revised. See article on page 9.

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

Sex and age	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total, 16 years and over</b>	5.9	5.8	5.7	5.7	5.8	5.8	5.7	5.7	5.9	5.8	5.9	5.8	5.9
16 to 19 years	16.4	16.0	16.0	15.7	16.3	16.5	15.4	15.8	16.6	16.2	16.4	15.9	16.0
16 to 17 years	19.6	18.6	18.5	18.5	18.7	18.9	17.5	17.3	18.5	16.9	18.4	17.3	18.0
18 to 19 years	14.0	13.8	14.3	13.5	14.3	15.0	14.4	14.5	15.4	15.6	15.0	14.7	14.5
20 to 24 years	9.0	8.7	8.6	8.8	8.6	8.9	8.9	9.1	9.3	9.2	9.6	8.8	9.8
25 years and over	3.9	3.9	3.9	3.9	4.0	3.9	3.9	3.9	4.0	3.9	4.0	4.0	3.8
25 to 54 years	4.2	4.1	4.1	4.1	4.2	4.0	4.1	4.0	4.2	4.1	4.2	4.3	4.1
55 years and over	2.9	3.0	3.0	3.1	3.1	3.1	2.9	3.2	3.1	2.9	3.0	2.7	2.7
<b>Males, 16 years and over</b>	5.1	5.1	5.0	5.0	5.1	5.0	4.9	5.1	5.2	5.2	5.2	5.2	5.2
16 to 19 years	16.5	16.2	16.1	15.8	16.0	16.1	14.5	15.4	16.3	16.1	15.7	15.8	15.6
16 to 17 years	19.9	19.2	19.2	18.9	17.9	18.9	16.6	16.1	18.0	16.7	17.1	17.8	17.9
18 to 19 years	13.8	13.7	14.2	13.6	14.1	14.0	14.0	14.6	15.1	15.2	14.4	14.0	13.6
20 to 24 years	8.6	8.4	8.1	8.3	8.0	8.2	8.3	8.8	8.8	8.8	9.5	8.4	9.4
25 years and over	3.2	3.2	3.2	3.2	3.3	3.1	3.2	3.3	3.4	3.3	3.4	3.5	3.2
25 to 54 years	3.4	3.3	3.3	3.3	3.3	3.2	3.2	3.4	3.5	3.6	3.5	3.8	3.4
55 years and over	2.6	2.9	2.8	2.8	3.0	2.8	3.1	3.3	3.1	2.8	2.8	2.6	2.6
<b>Females, 16 years and over</b>	6.9	6.8	6.8	6.8	6.9	6.9	6.8	6.6	7.0	6.6	6.9	6.6	6.8
16 to 19 years	16.2	15.7	15.9	15.5	16.6	16.9	16.5	16.2	17.0	16.4	17.2	16.1	16.4
16 to 17 years	19.4	17.8	17.7	18.0	19.6	18.8	18.3	18.6	19.0	17.2	19.8	16.7	18.0
18 to 19 years	14.2	14.0	14.5	13.3	14.5	16.0	14.9	14.2	15.7	15.9	15.6	15.5	15.5
20 to 24 years	9.5	9.1	9.3	9.5	9.4	9.7	9.7	9.4	9.6	9.6	9.7	9.3	10.2
25 years and over	5.0	5.0	5.0	4.9	4.9	4.9	4.6	4.7	4.9	4.6	4.9	4.7	4.7
25 to 54 years	5.4	5.4	5.4	5.3	5.3	5.2	5.2	5.0	5.3	5.0	5.2	5.0	5.1
55 years and over	3.3	3.2	3.3	3.6	3.2	3.6	2.8	3.1	3.2	2.9	3.4	2.9	2.9

NOTE: Data in this table have been revised. See article on page 9.

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

(Numbers in thousands)

Reason for unemployment	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>NUMBER OF UNEMPLOYED</b>													
Both sexes, 16 years and over:													
Job losers	2,443	2,441	2,475	2,457	2,520	2,356	2,449	2,526	2,680	2,632	2,731	2,729	2,728
On layoff	735	752	779	791	839	725	816	797	915	855	929	987	944
Other job losers	1,708	1,689	1,696	1,666	1,681	1,631	1,633	1,729	1,765	1,777	1,802	1,742	1,784
Job leavers	912	900	828	864	847	940	857	846	875	825	835	845	800
Reentrants	1,904	1,721	1,766	1,766	1,778	1,767	1,753	1,762	1,788	1,760	1,762	1,698	1,771
New entrants	826	824	858	808	800	824	781	726	745	601	604	736	858
<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	40.1	41.5	41.8	41.7	42.4	40.0	41.9	43.1	44.0	43.7	44.5	45.4	44.3
On layoff	12.1	12.8	13.1	13.4	14.1	12.3	14.0	13.6	15.0	14.2	15.2	16.4	15.3
Other job losers	28.1	28.7	28.6	28.3	28.3	27.7	28.0	29.5	29.0	29.5	29.4	29.0	29.0
Job leavers	15.0	15.3	14.0	14.7	14.2	16.0	14.7	14.4	14.4	13.7	13.6	14.1	13.0
Reentrants	31.3	29.2	29.8	30.0	29.9	30.0	30.0	30.1	29.4	29.2	26.7	28.3	28.8
New entrants	13.6	14.0	14.5	13.7	13.5	14.0	13.4	12.4	12.2	13.3	13.1	12.3	13.9
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers	2.4	2.4	2.4	2.4	2.5	2.3	2.4	2.5	2.6	2.5	2.6	2.6	2.6
Job leavers	.9	.9	.8	.8	.8	.9	.8	.8	.8	.8	.8	.8	.8
Reentrants	1.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.7
New entrants	.8	.8	.8	.8	.8	.8	.8	.7	.7	.8	.8	.7	.8

NOTE: Data in this table have been revised. See article on page 9.

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[In thousands]

Sex and age	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total, 16 years and over</b>	95,831	96,157	96,496	96,623	96,254	96,495	96,652	97,184	97,004	97,504	97,474	97,608	97,912
16 to 19 years	8,026	8,121	8,088	8,110	7,989	7,926	7,994	7,986	7,693	7,976	7,919	7,986	8,032
16 to 17 years	3,292	3,336	3,345	3,320	3,275	3,212	3,252	3,242	3,048	3,335	3,251	3,315	3,320
18 to 19 years	4,728	4,802	4,747	4,781	4,723	4,699	4,704	4,725	4,623	4,665	4,674	4,694	4,717
20 to 24 years	13,771	13,843	13,943	13,914	13,937	13,867	13,859	13,910	13,849	13,949	13,875	13,920	13,837
25 years and over	74,010	74,208	74,465	74,575	74,296	74,711	74,864	75,290	75,436	75,616	75,726	75,650	76,030
25 to 54 years	59,698	59,823	60,070	60,236	60,092	60,331	60,552	60,986	61,082	61,208	61,302	61,281	61,686
55 years and over	14,324	14,360	14,393	14,364	14,241	14,311	14,305	14,304	14,399	14,381	14,417	14,368	14,350
<b>Males, 16 years and over</b>	56,087	56,326	56,476	56,449	56,294	56,372	56,477	56,570	56,408	56,714	56,629	56,580	56,734
16 to 19 years	4,226	4,302	4,265	4,298	4,245	4,214	4,276	4,245	4,097	4,261	4,186	4,206	4,256
16 to 17 years	1,745	1,785	1,777	1,784	1,774	1,745	1,754	1,743	1,632	1,839	1,758	1,755	1,783
18 to 19 years	2,483	2,524	2,479	2,509	2,473	2,470	2,489	2,485	2,445	2,452	2,430	2,462	2,477
20 to 24 years	7,451	7,524	7,568	7,519	7,593	7,519	7,530	7,510	7,498	7,590	7,531	7,533	7,498
25 years and over	44,393	44,519	44,640	44,636	44,418	44,658	44,681	44,806	44,818	44,912	44,924	44,796	44,966
25 to 54 years	35,539	35,648	35,760	35,828	35,701	35,857	35,921	36,020	35,962	36,052	36,100	36,020	36,206
55 years and over	8,857	8,870	8,868	8,840	8,746	8,802	8,767	8,789	8,831	8,844	8,793	8,782	8,759
<b>Females, 16 years and over</b>	39,744	39,831	40,020	40,174	39,960	40,123	40,175	40,614	40,596	40,790	40,845	41,028	41,178
16 to 19 years	3,800	3,819	3,823	3,812	3,744	3,712	3,718	3,741	3,596	3,715	3,733	3,780	3,776
16 to 17 years	1,547	1,551	1,568	1,536	1,501	1,467	1,498	1,499	1,416	1,496	1,493	1,560	1,537
18 to 19 years	2,245	2,278	2,268	2,272	2,250	2,229	2,215	2,240	2,178	2,213	2,244	2,232	2,240
20 to 24 years	6,320	6,319	6,375	6,395	6,344	6,348	6,329	6,400	6,351	6,359	6,344	6,387	6,339
25 years and over	29,617	29,689	29,825	29,939	29,878	30,053	30,183	30,484	30,618	30,704	30,804	30,854	31,064
25 to 54 years	24,159	24,175	24,310	24,408	24,391	24,474	24,631	24,966	25,120	25,156	25,202	25,261	25,480
55 years and over	5,467	5,490	5,525	5,524	5,495	5,509	5,538	5,515	5,568	5,537	5,624	5,586	5,591

NOTE: Data in this table have been revised. See article on page 9.

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

[In thousands]

Sex and age	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total, 16 years and over</b>	5,984	5,904	5,883	5,882	5,944	5,903	5,824	5,909	6,124	5,990	6,121	6,044	6,087
16 to 19 years	1,574	1,542	1,543	1,506	1,555	1,565	1,459	1,495	1,534	1,544	1,554	1,512	1,527
16 to 17 years	805	761	759	754	754	747	690	676	690	680	732	692	728
18 to 19 years	770	771	794	745	790	829	791	803	841	860	825	811	802
20 to 24 years	1,364	1,322	1,315	1,346	1,316	1,355	1,359	1,386	1,415	1,413	1,470	1,346	1,505
25 years and over	3,029	3,032	3,021	3,025	3,071	2,997	3,005	3,041	3,155	3,036	3,140	3,168	3,040
25 to 54 years	2,618	2,590	2,581	2,572	2,606	2,520	2,562	2,567	2,697	2,647	2,698	2,744	2,650
55 years and over	424	444	442	460	456	465	434	478	467	422	449	403	400
<b>Males, 16 years and over</b>	3,035	2,997	2,958	2,972	2,999	2,941	2,893	3,027	3,083	3,098	3,098	3,124	3,089
16 to 19 years	837	830	820	808	809	811	724	773	797	816	781	789	786
16 to 17 years	433	425	422	416	387	407	355	334	358	370	363	380	390
18 to 19 years	397	401	410	395	407	403	404	431	436	442	410	402	391
20 to 24 years	700	686	664	678	659	674	682	723	724	734	785	692	782
25 years and over	1,481	1,479	1,463	1,479	1,525	1,451	1,483	1,531	1,575	1,552	1,565	1,642	1,505
25 to 54 years	1,248	1,219	1,206	1,219	1,237	1,173	1,201	1,252	1,299	1,327	1,322	1,405	1,282
55 years and over	240	262	251	253	272	258	276	302	283	254	254	237	231
<b>Females, 16 years and over</b>	2,949	2,907	2,925	2,910	2,945	2,962	2,931	2,882	3,041	2,892	3,023	2,920	2,998
16 to 19 years	737	712	723	698	746	754	735	722	737	728	773	723	741
16 to 17 years	372	336	337	338	367	340	335	342	332	310	369	312	338
18 to 19 years	373	370	384	350	383	426	387	372	405	418	415	409	411
20 to 24 years	664	636	651	668	657	681	677	663	691	679	681	654	723
25 years and over	1,548	1,553	1,558	1,546	1,546	1,546	1,522	1,510	1,580	1,484	1,575	1,526	1,535
25 to 54 years	1,370	1,371	1,375	1,353	1,369	1,347	1,361	1,315	1,398	1,320	1,376	1,339	1,368
55 years and over	184	182	191	207	184	207	158	176	184	166	195	166	169

NOTE: Data in this table have been revised. See article on page 9.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Selected categories	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>CHARACTERISTICS</b>													
Total, 16 years and over .....	95,831	96,157	96,496	96,623	96,254	96,495	96,652	97,184	97,004	97,504	97,474	97,608	97,912
Married men, spouse present .....	39,030	39,139	39,291	39,193	38,910	39,045	39,079	39,176	39,180	39,198	39,124	38,845	38,924
Married women, spouse present .....	22,284	22,372	22,522	22,605	22,376	22,547	22,664	22,908	22,869	22,937	22,919	22,940	23,027
<b>OCCUPATION</b>													
White-collar workers .....	48,108	48,303	48,836	48,996	49,061	49,136	49,192	49,536	49,663	49,816	49,738	49,912	49,911
Professional and technical .....	14,645	14,734	14,950	15,012	15,091	15,100	15,010	15,057	15,068	15,141	15,057	15,131	15,272
Managers and administrators, except farm .....	10,284	10,312	10,379	10,392	10,398	10,427	10,534	10,612	10,698	10,659	10,639	10,617	10,535
Sales workers .....	6,058	6,048	6,090	6,055	6,084	6,101	6,103	6,163	6,145	6,181	6,261	6,362	6,346
Clerical workers .....	17,121	17,209	17,417	17,537	17,488	17,508	17,545	17,704	17,752	17,835	17,781	17,802	17,758
Blue-collar workers .....	31,966	32,290	32,176	32,041	31,705	31,904	31,992	32,051	31,849	32,209	32,205	32,110	32,302
Craft and kindred workers .....	12,666	12,807	12,898	12,792	12,703	12,820	12,944	12,876	12,761	12,993	13,001	12,925	13,041
Operatives, except transport equipment .....	10,868	10,958	10,901	10,991	10,770	10,755	10,804	10,884	10,909	10,964	10,967	10,963	11,042
operatives .....	3,613	3,651	3,602	3,569	3,564	3,644	3,605	3,627	3,604	3,617	3,593	3,628	3,635
Nonfarm laborers .....	4,819	4,874	4,775	4,689	4,668	4,685	4,639	4,664	4,575	4,635	4,644	4,594	4,584
Service workers .....	12,942	12,817	12,804	12,847	12,907	12,772	12,805	12,766	12,621	12,859	12,937	12,899	12,970
Farm workers .....	2,802	2,764	2,746	2,774	2,659	2,628	2,679	2,678	2,707	2,722	2,695	2,718	2,694
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,447	1,387	1,425	1,415	1,379	1,424	1,423	1,419	1,384	1,399	1,361	1,475	1,451
Self-employed workers .....	1,608	1,564	1,558	1,583	1,553	1,519	1,539	1,558	1,614	1,642	1,602	1,622	1,596
Unpaid family workers .....	312	295	334	314	291	283	291	291	310	325	313	310	310
Nonagricultural industries:													
Wage and salary workers .....	85,461	86,029	86,192	86,439	86,105	86,232	86,309	86,454	86,421	86,912	86,982	87,020	87,384
Government .....	15,326	15,251	15,322	15,281	15,359	15,616	15,318	15,353	15,279	15,407	15,423	15,358	15,397
Private industries .....	70,135	70,778	70,870	71,158	70,746	70,616	70,991	71,061	71,142	71,505	71,559	71,662	71,987
Private households .....	1,302	1,247	1,328	1,262	1,172	1,195	1,235	1,219	1,211	1,313	1,261	1,211	1,228
Other industries .....	68,833	69,531	69,542	69,896	69,574	69,421	69,756	69,842	69,931	70,192	70,298	70,451	70,759
Self-employed workers .....	6,506	6,497	6,591	6,542	6,463	6,608	6,629	6,752	6,689	6,731	6,812	6,781	6,737
Unpaid family workers .....	469	475	455	446	465	460	474	519	450	449	430	417	409
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	87,050	87,520	87,543	87,847	86,608	87,785	87,749	88,769	88,855	88,723	88,638	88,617	89,180
Full-time schedules .....	71,903	72,176	72,212	72,529	71,659	72,496	72,243	72,915	73,053	73,159	73,204	72,997	73,137
Part-time for economic reasons .....	3,082	3,203	3,176	3,211	3,279	3,283	3,284	3,274	3,298	3,167	3,315	3,392	3,519
Usually work full-time .....	1,202	1,252	1,246	1,254	1,287	1,273	1,322	1,334	1,401	1,273	1,354	1,413	1,491
Usually work part-time .....	1,880	1,951	1,930	1,957	1,992	2,010	1,962	1,940	1,897	1,894	1,961	1,979	2,028
Part time for noneconomic reasons .....	12,065	12,141	12,155	12,107	11,670	12,006	12,222	12,580	12,504	12,397	12,119	12,228	12,524

<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.

NOTE: Data in this table have been revised. See article on page 9.

# HOUSEHOLD DATA

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

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979	Dec. 1978	Dec. 1979
<b>VETERANS<sup>1</sup></b>										
Total, 20 years and over .....	8,446	8,560	8,036	8,121	7,638	7,787	398	334	5.0	4.1
20 to 24 years .....	653	459	589	416	489	371	100	45	17.0	10.8
25 to 39 years .....	7,018	7,196	6,776	6,926	6,506	6,656	270	270	4.0	3.9
25 to 29 years .....	2,148	1,846	2,059	1,741	1,941	1,626	118	115	5.7	6.6
30 to 34 years .....	3,535	3,623	3,423	3,519	3,309	3,421	114	98	3.3	2.8
35 to 39 years .....	1,335	1,727	1,294	1,666	1,256	1,609	38	57	2.9	3.4
40 years and over .....	775	905	671	779	643	760	28	19	4.2	2.4
<b>NONVETERANS<sup>2</sup></b>										
Total, 25 to 39 years .....	14,087	14,998	13,430	14,268	12,894	13,675	536	593	4.0	4.2
25 to 29 years .....	6,379	6,860	6,036	6,489	5,727	6,210	309	279	5.1	4.3
30 to 34 years .....	4,042	4,340	3,883	4,154	3,759	3,968	124	186	3.2	4.5
35 to 39 years .....	3,666	3,798	3,511	3,625	3,408	3,497	103	128	2.9	3.5

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

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

**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	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	156,990	157,582	158,223	158,896	159,531	160,126	160,715	161,355	162,037	162,663	163,260	163,894	164,682
Armed Forces <sup>1</sup> .....	2,147	2,136	2,130	2,135	2,132	2,122	2,110	2,120	2,115	2,093	2,079	2,088	2,091
Civilian noninstitutional population <sup>1</sup> ...	154,843	155,446	156,094	156,764	157,399	158,004	158,605	159,235	159,922	160,570	161,181	161,806	162,591
Civilian labor force.....	95,624	96,152	97,135	97,638	98,584	99,136	100,173	100,777	101,538	102,315	102,357	103,238	103,749
Percent of civilian population.....	61.8	61.9	62.2	62.3	62.6	62.7	63.2	63.3	63.5	63.7	63.5	63.8	63.8
Employed.....	88,242	88,974	90,188	90,913	92,108	92,954	94,145	94,734	95,653	96,425	96,467	97,231	97,665
Percent of total population.....	56.2	56.5	57.0	57.2	57.7	58.1	58.6	58.7	59.0	59.3	59.1	59.3	59.3
Agriculture.....	3,246	3,166	3,318	3,195	3,291	3,324	3,336	3,367	3,331	3,296	3,235	3,315	3,346
Nonagricultural industries.....	84,995	85,808	86,869	87,718	88,817	89,630	90,809	91,367	92,323	93,130	93,232	93,915	94,319
Unemployed.....	7,382	7,178	6,948	6,726	6,476	6,182	6,028	6,043	5,885	5,890	5,890	6,008	6,084
Unemployment rate.....	7.7	7.5	7.2	6.9	6.6	6.2	6.0	6.0	5.8	5.8	5.8	5.8	5.9
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	66,711	67,023	67,321	67,641	67,951	68,238	68,520	68,831	69,184	69,491	69,786	70,100	70,487
Civilian noninstitutional population <sup>1</sup> ...	65,014	65,338	65,635	65,949	66,261	66,556	66,844	67,134	67,489	67,827	68,123	68,419	68,814
Civilian labor force.....	51,928	52,059	52,293	52,487	52,938	53,090	53,374	53,465	53,886	54,285	54,295	54,637	54,750
Percent of civilian population.....	79.9	79.7	79.7	79.6	79.9	79.8	79.8	79.6	79.8	80.0	79.9	79.9	79.6
Employed.....	48,826	49,100	49,522	49,878	50,445	50,698	51,133	51,282	51,737	52,129	52,136	52,363	52,432
Percent of total population.....	73.2	73.3	73.6	73.7	74.2	74.3	74.6	74.5	74.8	75.0	74.7	74.7	74.4
Agriculture.....	2,290	2,260	2,338	2,300	2,326	2,341	2,360	2,382	2,353	2,327	2,300	2,360	2,412
Nonagricultural industries.....	46,536	46,840	47,184	47,578	48,119	48,357	48,773	48,901	49,383	49,801	49,836	50,003	50,020
Unemployed.....	3,102	2,959	2,770	2,609	2,493	2,392	2,241	2,182	2,149	2,156	2,163	2,274	2,318
Unemployment rate.....	6.0	5.7	5.3	5.0	4.7	4.5	4.2	4.1	4.0	4.0	4.0	4.2	4.2
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	73,468	73,746	74,079	74,429	74,770	75,094	75,413	75,756	76,112	76,455	76,782	77,129	77,547
Civilian noninstitutional population <sup>1</sup> ...	73,378	73,653	73,984	74,331	74,671	74,994	75,310	75,649	76,003	76,345	76,670	77,009	77,425
Civilian labor force.....	34,739	35,024	35,581	35,834	36,276	36,687	37,265	37,657	38,041	38,393	38,562	39,192	39,889
Percent of civilian population.....	47.3	47.6	48.1	48.2	48.6	48.9	49.5	49.8	50.1	50.3	50.3	50.9	51.0
Employed.....	32,161	32,490	33,092	33,361	33,841	34,484	35,002	35,362	35,863	36,190	36,361	36,983	37,254
Percent of total population.....	43.8	44.1	44.7	44.8	45.3	45.9	46.4	46.7	47.1	47.3	47.4	47.9	48.0
Unemployed.....	2,578	2,534	2,488	2,473	2,435	2,204	2,263	2,295	2,178	2,203	2,201	2,209	2,235
Unemployment rate.....	7.4	7.2	7.0	6.9	6.7	6.0	6.1	6.1	5.7	5.7	5.7	5.6	5.7
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,812	16,813	16,823	16,828	16,810	16,794	16,782	16,768	16,742	16,717	16,692	16,666	16,648
Civilian noninstitutional population <sup>1</sup> ...	16,451	16,454	16,475	16,484	16,468	16,454	16,452	16,452	16,429	16,398	16,389	16,377	16,352
Civilian labor force.....	8,957	9,069	9,262	9,317	9,370	9,358	9,534	9,656	9,612	9,637	9,496	9,409	9,510
Percent of civilian population.....	54.4	55.1	56.2	56.5	56.9	56.9	57.9	58.7	58.5	58.8	57.9	57.5	58.2
Employed.....	7,255	7,384	7,573	7,674	7,822	7,772	8,010	8,090	8,054	8,106	7,976	7,885	7,979
Percent of total population.....	43.2	43.9	45.0	45.6	46.5	46.3	47.7	48.2	48.1	48.5	47.7	47.3	47.9
Unemployed.....	1,702	1,685	1,689	1,643	1,548	1,586	1,524	1,565	1,558	1,530	1,526	1,524	1,531
Unemployment rate.....	19.0	18.6	18.2	17.6	16.5	16.9	16.0	16.2	16.2	15.9	16.1	16.2	16.1
<b>White</b>													
Total noninstitutional population <sup>1</sup> .....	138,105	138,574	139,084	139,620	140,107	140,568	141,028	141,526	142,034	142,521	142,977	143,462	144,102
Civilian noninstitutional population <sup>1</sup> ...	136,326	136,812	137,333	137,870	138,364	138,839	139,323	139,822	140,336	140,857	141,330	141,821	142,468
Civilian labor force.....	84,617	85,055	85,924	86,286	87,048	87,360	88,249	88,739	89,424	90,161	90,110	90,833	91,323
Percent of civilian population.....	62.1	62.2	62.6	62.6	62.9	62.9	63.3	63.5	63.7	64.0	63.8	64.0	64.1
Employed.....	78,689	79,327	80,424	81,081	82,093	82,635	83,665	84,111	84,930	85,658	85,635	86,174	86,640
Percent of total population.....	57.0	57.2	57.8	58.1	58.6	58.8	59.3	59.4	59.6	60.1	59.5	60.1	60.1
Unemployed.....	5,928	5,728	5,500	5,205	4,955	4,725	4,584	4,628	4,494	4,503	4,476	4,660	4,683
Unemployment rate.....	7.0	6.7	6.4	6.0	5.7	5.4	5.2	5.2	5.0	5.0	5.0	5.1	5.1
<b>Black and other</b>													
Total noninstitutional population <sup>1</sup> .....	18,885	19,008	19,139	19,279	19,424	19,557	19,687	19,829	20,003	20,142	20,282	20,432	20,581
Civilian noninstitutional population <sup>1</sup> ...	18,517	18,634	18,761	18,894	19,035	19,164	19,282	19,413	19,585	19,713	19,851	19,985	20,123
Civilian labor force.....	11,039	11,092	11,196	11,340	11,555	11,773	11,909	12,034	12,131	12,172	12,223	12,378	12,445
Percent of civilian population.....	59.6	59.5	59.7	60.0	60.7	61.4	61.8	62.0	61.9	61.7	61.6	61.9	61.8
Employed.....	9,577	9,657	9,762	9,800	10,030	10,313	10,480	10,611	10,742	10,781	10,823	11,023	11,048
Percent of total population.....	50.7	50.8	51.0	50.8	51.6	52.7	53.2	53.5	53.7	53.5	53.4	53.9	53.7
Unemployed.....	1,463	1,436	1,434	1,540	1,525	1,460	1,429	1,423	1,389	1,391	1,400	1,355	1,397
Unemployment rate.....	13.2	12.9	12.8	13.6	13.2	12.4	12.0	11.8	11.5	11.4	11.5	10.9	11.2

<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 will not necessarily add to totals, because of the independent seasonal adjustment of the various series. Seasonally adjusted data in this table have been revised. See article on page 9.

**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	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>FULL TIME</b>													
Total, 16 years and over:													
Civilian labor force	81,648	81,923	82,711	83,249	83,821	84,399	85,250	85,978	86,434	87,208	87,437	87,856	88,480
Employed <sup>1</sup>	75,664	76,269	77,296	77,888	78,704	79,546	80,574	81,263	81,909	82,669	82,875	83,170	83,694
Unemployed	5,985	5,654	5,505	5,361	5,118	4,853	4,676	4,715	4,525	4,539	4,562	4,686	4,786
Unemployment rate	7.3	6.9	6.7	6.4	6.1	5.8	5.5	5.5	5.2	5.2	5.2	5.3	5.4
Males, 20 years and over:													
Civilian labor force	52,264	52,025	52,179	52,221	52,483	52,510	52,719	52,772	53,154	53,591	53,677	53,951	54,136
Employed <sup>1</sup>	46,452	46,650	47,083	47,357	47,896	48,155	48,598	48,761	49,212	49,633	49,687	49,769	49,824
Unemployed	2,906	2,687	2,548	2,432	2,293	2,178	2,061	2,006	1,971	1,979	1,995	2,091	2,156
Unemployment rate	5.9	5.4	5.1	4.9	4.6	4.3	4.1	4.0	3.9	3.8	3.9	4.0	4.1
Females, 20 years and over:													
Civilian labor force	29,477	29,642	30,037	30,355	30,453	30,809	31,146	31,664	31,782	32,089	32,359	32,681	33,044
Employed <sup>1</sup>	25,280	25,600	26,016	26,331	26,547	27,205	27,557	27,995	28,410	28,646	28,870	29,191	29,538
Unemployed	2,099	2,021	2,010	2,012	1,953	1,802	1,794	1,834	1,686	1,722	1,745	1,745	1,753
Unemployment rate	7.7	7.3	7.2	7.1	6.9	6.2	6.1	6.1	5.6	5.7	5.7	5.6	5.6
Both sexes, 16-19 years:													
Civilian labor force	5,892	5,911	6,001	6,034	6,003	5,933	6,061	6,257	6,023	6,067	5,962	5,910	6,086
Employed <sup>1</sup>	3,932	4,019	4,107	4,200	4,261	4,187	4,419	4,506	4,287	4,391	4,318	4,209	4,332
Unemployed	980	946	947	917	871	873	821	875	868	838	822	850	877
Unemployment rate	20.9	19.1	18.7	17.9	17.0	17.3	15.7	16.3	16.8	16.0	16.0	16.8	16.8
<b>PART TIME</b>													
Total, 16 years and over:													
Civilian labor force	13,996	14,222	14,421	14,414	14,740	14,709	14,918	14,816	15,064	15,097	14,944	15,419	15,245
Employed <sup>1</sup>	12,583	12,718	12,970	13,041	13,377	13,383	13,561	13,490	13,708	13,744	13,617	14,104	13,943
Unemployed	1,413	1,503	1,451	1,373	1,363	1,326	1,357	1,326	1,356	1,354	1,327	1,316	1,301
Unemployment rate	10.1	10.6	10.1	9.5	9.2	9.0	9.1	8.9	9.0	9.0	8.9	8.5	8.5
Males, 20 years and over:													
Civilian labor force	2,589	2,683	2,687	2,707	2,747	2,734	2,749	2,685	2,698	2,671	2,649	2,763	2,761
Employed <sup>1</sup>	2,373	2,446	2,455	2,511	2,540	2,537	2,563	2,503	2,518	2,502	2,477	2,577	2,594
Unemployed	216	237	232	196	208	197	187	182	180	169	172	187	167
Unemployment rate	8.3	8.8	8.6	7.2	7.6	7.2	6.8	6.8	6.7	6.3	6.5	6.8	6.0
Females, 20 years and over:													
Civilian labor force	7,340	7,433	7,545	7,492	7,754	7,694	7,910	7,836	7,922	8,038	7,950	8,271	8,176
Employed <sup>1</sup>	6,868	6,907	7,064	7,036	7,283	7,277	7,440	7,382	7,444	7,541	7,495	7,815	7,705
Unemployed	471	526	480	455	471	417	471	454	478	497	455	456	472
Unemployment rate	6.4	7.1	6.4	6.1	6.1	5.4	6.0	5.8	6.0	6.2	5.7	5.5	5.8
Both sexes, 16-19 years:													
Civilian labor force	4,067	4,106	4,190	4,216	4,239	4,280	4,258	4,295	4,444	4,388	4,345	4,385	4,308
Employed <sup>1</sup>	3,341	3,366	3,451	3,493	3,555	3,569	3,558	3,605	3,746	3,701	3,645	3,712	3,645
Unemployed	726	740	739	722	684	712	700	689	698	688	700	673	663
Unemployment rate	17.9	18.0	17.6	17.1	16.1	16.6	16.4	16.1	15.7	15.7	16.1	15.3	15.4

<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.

NOTE: Data in this table have been revised. See article on page 9.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

[Numbers in thousands]

Characteristics	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>WHITE</b>													
Total, 16 years and over:													
Civilian labor force	84,617	85,055	85,924	86,286	87,048	87,360	88,249	88,739	89,424	90,161	90,110	90,833	91,323
Employed	78,689	79,327	80,424	81,081	82,093	82,635	83,665	84,111	84,930	85,658	85,635	86,174	86,640
Unemployed	5,928	5,728	5,500	5,205	4,955	4,725	4,584	4,628	4,494	4,503	4,476	4,660	4,683
Unemployment rate	7.0	6.7	6.4	6.0	5.7	5.4	5.2	5.2	5.0	5.0	5.0	5.1	5.1
Males, 20 years and over:													
Civilian labor force	46,505	46,544	46,815	47,018	47,366	47,420	47,678	47,745	48,047	48,464	48,449	48,669	48,772
Employed	43,984	44,155	44,577	44,974	45,420	45,547	45,941	46,036	46,383	46,794	46,783	46,875	46,971
Unemployed	2,520	2,389	2,238	2,044	1,946	1,873	1,737	1,709	1,664	1,670	1,666	1,794	1,802
Unemployment rate	5.4	5.1	4.8	4.3	4.1	3.9	3.6	3.6	3.5	3.4	3.4	3.7	3.7
Females, 20 years and over:													
Civilian labor force	30,072	30,327	30,782	30,958	31,322	31,603	32,096	32,408	32,818	33,118	33,232	33,780	34,043
Employed	28,031	28,341	28,856	29,042	29,478	29,944	30,389	30,674	31,179	31,459	31,582	32,112	32,350
Unemployed	2,041	1,986	1,926	1,916	1,845	1,659	1,708	1,734	1,639	1,659	1,650	1,669	1,693
Unemployment rate	6.8	6.5	6.3	6.2	5.9	5.2	5.3	5.3	5.0	5.0	5.0	4.9	5.0
Both sexes, 16 to 19 years:													
Civilian labor force	8,041	8,184	8,327	8,310	8,359	8,336	8,474	8,587	8,560	8,579	8,430	8,384	8,507
Employed	6,674	6,831	6,991	7,064	7,195	7,144	7,335	7,401	7,369	7,404	7,270	7,187	7,319
Unemployed	1,367	1,353	1,336	1,246	1,164	1,193	1,139	1,186	1,191	1,174	1,160	1,197	1,188
Unemployment rate	17.0	16.5	16.0	15.0	13.9	14.3	13.4	13.8	13.9	13.7	13.8	14.3	14.0
<b>BLACK AND OTHER</b>													
Total, 16 years and over:													
Civilian labor force	11,039	11,092	11,196	11,340	11,555	11,773	11,909	12,034	12,131	12,172	12,223	12,378	12,445
Employed	9,577	9,657	9,762	9,800	10,030	10,313	10,480	10,611	10,742	10,781	10,823	11,023	11,048
Unemployed	1,463	1,436	1,434	1,540	1,525	1,460	1,429	1,423	1,389	1,391	1,400	1,355	1,397
Unemployment rate	13.2	12.9	12.8	13.6	13.2	12.4	12.0	11.8	11.5	11.4	11.5	10.9	11.2
Males, 20 years and over:													
Civilian labor force	5,427	5,482	5,495	5,482	5,565	5,661	5,707	5,725	5,827	5,830	5,853	5,969	5,961
Employed	4,841	4,935	4,968	4,895	5,019	5,144	5,211	5,242	5,347	5,337	5,365	5,481	5,451
Unemployed	587	547	527	587	546	516	496	483	480	494	488	487	510
Unemployment rate	10.8	10.0	9.6	10.7	9.8	9.1	8.7	8.4	8.2	8.5	8.3	8.2	8.6
Females, 20 years and over:													
Civilian labor force	4,684	4,713	4,787	4,855	4,973	5,089	5,159	5,235	5,244	5,277	5,321	5,394	5,466
Employed	4,148	4,161	4,224	4,300	4,384	4,539	4,605	4,674	4,706	4,732	4,772	4,852	4,926
Unemployed	536	552	563	555	589	550	554	560	538	545	548	541	540
Unemployment rate	11.4	11.7	11.8	11.4	11.8	10.8	10.7	10.7	10.3	10.3	10.3	10.0	9.9
Both sexes, 16 to 19 years:													
Civilian labor force	928	897	914	1,003	1,017	1,024	1,043	1,075	1,061	1,064	1,050	1,015	1,018
Employed	588	561	570	605	626	630	663	695	689	712	686	689	671
Unemployed	340	336	344	398	391	394	379	380	371	353	364	326	347
Unemployment rate	36.6	37.5	37.7	39.7	38.4	38.5	36.4	35.4	35.0	33.1	34.7	32.1	34.1

NOTE: Data in this table have been revised. See article on page B.

# HOUSEHOLD DATA

## SEASONALLY ADJUSTED

### QUARTERLY AVERAGES

A-47. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	7.7	7.5	7.2	6.9	6.6	6.2	6.0	6.0	5.8	5.8	5.8	5.8	5.9
Males, 20 years and over .....	6.0	5.7	5.3	5.0	4.7	4.5	4.2	4.1	4.0	4.0	4.0	4.2	4.2
Females, 20 years and over .....	7.4	7.2	7.0	6.9	6.7	6.0	6.1	6.1	5.7	5.7	5.7	5.6	5.7
Both sexes, 16-19 years .....	19.0	18.6	18.2	17.6	16.5	16.9	16.0	16.2	16.2	15.9	16.1	16.2	16.1
White .....	7.0	6.7	6.4	6.0	5.7	5.4	5.2	5.2	5.0	5.0	5.0	5.1	5.1
Black and other .....	13.2	12.9	12.8	13.6	13.2	12.4	12.0	11.8	11.5	11.4	11.5	10.9	11.2
Married men, spouse present .....	4.2	4.0	3.6	3.4	3.3	3.0	2.8	2.7	2.5	2.6	2.6	2.9	2.9
Married women, spouse present .....	7.0	6.8	6.7	6.4	6.2	5.5	5.5	5.6	5.4	5.3	5.2	5.0	5.0
Women who head families .....	10.1	9.6	9.2	9.7	8.9	8.2	9.3	8.6	7.7	8.2	8.6	7.9	8.4
Full-time workers .....	7.3	6.9	6.7	6.4	6.1	5.8	5.5	5.5	5.2	5.2	5.2	5.3	5.4
Part-time workers .....	10.1	10.6	10.1	9.5	9.2	9.0	9.1	8.9	9.0	9.0	8.9	8.5	8.5
Unemployed 15 weeks and over <sup>1</sup> .....	2.4	2.2	2.0	1.9	1.8	1.6	1.4	1.3	1.2	1.2	1.2	1.1	1.2
Labor force time lost <sup>2</sup> .....	8.3	8.0	7.6	7.4	7.2	6.7	6.5	6.6	6.2	6.2	6.3	6.3	6.4
<b>OCCUPATION</b>													
White-collar workers .....	4.5	4.6	4.3	4.1	4.1	3.6	3.6	3.6	3.3	3.4	3.3	3.4	3.3
Professional and technical .....	3.2	3.2	3.2	2.9	2.8	2.7	2.6	2.5	2.7	2.4	2.3	2.5	2.4
Managers and administrators, except farm .....	3.0	3.0	2.9	2.5	2.7	2.2	2.0	2.1	2.0	2.0	2.2	2.2	2.0
Sales workers .....	5.4	5.6	5.3	5.1	4.9	4.2	4.3	4.2	3.7	4.1	4.1	3.8	3.8
Clerical workers .....	6.2	6.3	5.8	5.7	5.6	4.9	5.2	5.0	4.5	4.7	4.5	4.6	4.6
Blue-collar workers .....	9.3	8.7	8.1	7.9	7.4	7.2	6.7	6.8	6.6	6.5	6.8	7.1	7.3
Craft and kindred workers .....	6.7	6.2	5.6	5.4	5.1	5.0	4.5	4.5	4.4	4.5	4.3	4.5	4.6
Operatives, except transport .....	10.8	9.9	9.4	9.5	9.0	8.4	8.1	8.2	7.6	7.8	8.1	8.7	9.0
Transport equipment operatives .....	8.0	7.4	6.5	6.4	5.8	5.3	5.3	5.3	4.9	5.1	5.6	5.8	5.3
Nonfarm laborers .....	13.3	13.0	12.4	11.5	11.1	11.5	9.8	10.3	10.9	9.8	10.8	11.1	11.7
Service workers .....	9.0	8.4	8.5	8.0	7.8	7.5	7.5	7.3	7.3	7.4	7.3	7.0	6.7
Farm workers .....	5.2	5.2	4.8	4.3	4.2	4.2	3.4	3.7	3.8	3.2	3.4	4.0	4.4
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	7.9	7.5	7.1	6.8	6.5	6.2	5.9	5.9	5.7	5.6	5.7	5.9	5.9
Construction .....	14.7	14.3	13.0	11.7	11.1	11.0	9.9	10.4	11.0	10.4	10.2	9.9	10.1
Manufacturing .....	7.8	7.2	6.6	6.7	6.2	5.7	5.6	5.4	5.1	5.1	5.4	5.9	5.9
Durable goods .....	7.5	6.8	6.0	6.1	5.7	5.2	4.9	5.0	4.5	4.4	4.7	5.4	5.5
Nondurable goods .....	8.3	7.7	7.5	7.5	6.9	6.5	6.5	6.0	6.0	6.1	6.5	6.7	6.5
Transportation and public utilities .....	5.2	5.0	4.5	4.7	4.6	3.8	3.9	3.7	3.3	3.6	3.2	3.8	4.0
Wholesale and retail trade .....	8.6	8.5	8.1	7.9	7.5	7.2	6.8	6.7	6.7	6.5	6.5	6.4	6.4
Finance and service industries .....	6.6	6.3	6.2	5.7	5.7	5.3	5.1	5.2	4.9	4.9	4.8	4.9	4.7
Government workers .....	4.3	4.3	4.1	4.1	4.2	3.8	4.0	3.9	3.9	3.9	3.6	3.5	3.8
Agricultural wage and salary workers .....	12.8	12.8	11.9	9.9	9.8	9.6	8.1	8.7	8.5	8.0	8.6	9.8	9.8

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

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

as a percent of potentially available labor force hours.

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

NOTE: Data in this table have been revised. See article on page 9.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

[Numbers in thousands]

Weeks of unemployment	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>DURATION</b>													
Both sexes, 16 years and over:													
Less than 5 weeks .....	2,827	2,900	2,940	2,803	2,757	2,749	2,779	2,858	2,786	2,766	2,860	2,922	2,930
5 to 14 weeks .....	2,305	2,166	2,056	2,096	2,001	1,895	1,871	1,865	1,854	1,873	1,870	1,902	1,933
15 weeks and over .....	2,306	2,107	1,902	1,844	1,735	1,542	1,396	1,284	1,238	1,253	1,196	1,135	1,205
15 to 26 weeks .....	1,036	932	845	916	860	828	740	664	709	712	683	639	683
27 weeks and over .....	1,270	1,175	1,057	928	876	715	655	620	529	541	513	496	522
Average (mean duration, in weeks .....	15.2	14.8	14.5	14.0	13.7	12.7	12.2	11.6	11.2	11.4	10.8	10.5	10.5
Median duration, in weeks .....	8.0	7.3	7.1	7.0	6.9	6.4	5.9	5.9	5.6	5.8	5.5	5.6	5.4
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	38.0	40.4	42.6	41.6	42.5	44.4	46.0	47.6	47.4	47.0	48.3	49.0	48.3
5 to 14 weeks .....	31.0	30.2	29.8	31.1	30.8	30.6	30.9	31.1	31.5	31.8	31.6	31.9	31.9
15 weeks and over .....	31.0	29.4	27.6	27.3	26.7	24.9	23.1	21.4	21.1	21.3	20.2	19.0	19.9
15 to 26 weeks .....	13.9	13.0	12.3	13.6	13.2	13.4	12.2	11.1	12.1	12.1	11.5	10.7	11.3
27 weeks and over .....	17.1	16.4	15.3	13.8	13.5	11.6	10.8	10.3	9.0	9.2	8.7	8.3	8.6

NOTE: Data in this table have been revised. See article on page 9.

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

Sex and age	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>Total, 16 years and over .....</b>													
16 to 19 years .....	19.0	18.6	18.2	17.6	16.5	16.9	16.0	16.2	16.2	15.9	16.1	16.2	16.1
16 to 17 years .....	21.3	20.5	20.5	19.9	18.5	19.8	18.7	19.5	19.3	18.5	18.4	17.5	17.9
18 to 19 years .....	17.4	17.0	16.7	15.9	15.1	14.9	14.1	13.7	13.9	13.9	14.6	15.2	14.8
20 to 24 years .....	12.2	11.5	11.0	10.9	10.2	10.3	9.5	9.4	8.9	8.7	8.8	9.2	9.4
25 years and over .....	5.5	5.2	5.0	4.8	4.6	4.1	4.1	4.0	3.9	3.9	3.9	3.9	3.9
25 to 54 years .....	5.7	5.4	5.2	5.0	4.8	4.3	4.3	4.3	4.1	4.1	4.1	4.1	4.2
55 years and over .....	4.4	4.4	4.1	3.9	4.0	3.3	3.2	3.1	2.9	3.0	3.1	3.1	2.8
<b>Males, 16 years and over .....</b>													
16 to 19 years .....	19.3	18.1	17.7	17.4	15.9	16.3	15.1	15.4	16.2	16.0	15.5	15.9	15.7
16 to 17 years .....	21.6	20.2	20.2	20.2	17.5	19.5	18.4	18.9	19.9	19.1	17.9	16.9	17.6
18 to 19 years .....	17.5	16.7	16.1	15.1	14.5	13.9	12.9	12.6	13.2	13.8	14.0	15.1	14.0
20 to 24 years .....	12.4	11.4	10.9	10.8	9.7	10.1	8.7	8.8	8.6	8.2	8.2	8.8	9.1
25 years and over .....	4.9	4.6	4.3	4.0	3.9	3.5	3.4	3.3	3.2	3.2	3.2	3.3	3.4
25 to 54 years .....	5.1	4.7	4.4	4.1	3.9	3.5	3.4	3.4	3.3	3.3	3.3	3.5	3.6
55 years and over .....	4.2	4.3	3.7	3.6	3.8	3.2	3.2	3.0	2.7	2.8	3.0	3.1	2.7
<b>Females, 16 years and over .....</b>													
16 to 19 years .....	18.7	19.2	18.8	17.9	17.3	17.8	16.9	17.1	16.2	15.7	16.7	16.5	16.5
16 to 17 years .....	20.9	21.7	20.9	19.5	19.7	20.1	18.9	20.2	18.7	17.8	18.9	18.2	18.2
18 to 19 years .....	17.2	17.3	17.4	16.8	15.7	16.1	15.5	14.9	14.7	13.9	15.2	15.3	15.5
20 to 24 years .....	12.0	11.7	11.1	10.9	10.9	10.4	10.5	10.1	9.3	9.3	9.6	9.6	9.7
25 years and over .....	6.4	6.2	6.1	6.0	5.8	5.0	5.1	5.2	4.9	4.9	4.9	4.7	4.8
25 to 54 years .....	6.8	6.6	6.5	6.3	6.1	5.4	5.6	5.6	5.2	5.3	5.3	5.1	5.1
55 years and over .....	4.7	4.6	4.6	4.5	4.3	3.5	3.2	3.3	3.3	3.4	3.2	3.1	3.1

NOTE: Data in this table have been revised. See article on page 9.

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

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

(Numbers in thousands)

Reason for unemployment	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>NUMBER OF UNEMPLOYED</b>													
Both sexes, 16 years and over:													
Job losers .....	3,610	3,328	3,094	3,056	2,842	2,612	2,534	2,452	2,413	2,458	2,442	2,613	2,729
On layoff .....	1,020	914	837	858	770	713	660	653	707	774	793	856	953
Other job losers .....	2,590	2,415	2,256	2,198	2,072	1,899	1,874	1,799	1,705	1,684	1,648	1,757	1,776
Job leavers .....	888	904	908	862	890	865	847	848	851	864	881	849	827
Reentrants .....	1,953	1,975	1,975	1,869	1,880	1,834	1,775	1,847	1,795	1,751	1,766	1,770	1,744
New entrants .....	937	947	975	957	873	895	862	869	843	830	862	757	799
<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 .....	48.9	46.5	44.5	45.3	43.8	42.1	42.1	40.8	40.9	41.6	41.4	43.6	44.8
On layoff .....	13.8	12.8	12.0	12.7	11.9	11.5	11.0	11.5	12.0	13.1	13.5	14.3	15.6
Other job losers .....	35.1	33.7	32.5	32.6	32.0	30.6	31.1	29.2	28.9	28.5	28.0	29.3	29.1
Job leavers .....	12.0	12.6	13.1	12.8	13.7	13.9	14.1	14.1	14.4	14.6	15.0	14.2	13.6
Reentrants .....	26.4	27.6	28.4	27.7	29.0	29.5	29.5	30.7	30.4	29.7	30.0	29.6	28.6
New entrants .....	12.7	13.2	14.0	14.2	13.5	14.4	14.3	14.4	14.3	14.1	13.6	12.6	13.1
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.8	3.5	3.2	3.1	2.9	2.6	2.5	2.4	2.4	2.4	2.4	2.5	2.6
Job leavers .....	.9	.9	.9	.9	.9	.9	.8	.8	.8	.8	.9	.8	.8
Reentrants .....	2.0	2.1	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7
New entrants .....	1.0	1.0	1.0	1.0	.9	.9	.9	.9	.8	.8	.8	.7	.8

NOTE: Data in this table have been revised. See article on page 9.

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

(In thousands)

Sex and age	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Total, 16 years and over	88,242	88,974	90,188	90,913	92,108	92,954	94,145	94,734	95,653	96,425	96,467	97,231	97,665
16 to 19 years	7,255	7,384	7,573	7,674	7,822	7,772	8,010	8,090	8,054	8,106	7,970	7,885	7,979
16 to 17 years	2,896	2,970	3,041	3,116	3,210	3,159	3,294	3,326	3,297	3,334	3,246	3,208	3,295
18 to 19 years	4,366	4,419	4,538	4,558	4,613	4,612	4,705	4,773	4,762	4,777	4,709	4,671	4,695
20 to 24 years	12,434	12,633	12,763	12,927	13,089	13,177	13,471	13,584	13,752	13,900	13,888	13,903	13,877
25 years and over	68,550	68,960	69,859	70,307	71,191	71,997	72,674	73,057	73,844	74,416	74,624	75,447	75,803
25 to 54 years	54,971	55,424	56,131	56,551	57,262	58,023	58,506	58,906	59,599	60,043	60,325	61,092	61,423
55 years and over	13,589	13,537	13,720	13,714	13,939	13,965	14,163	14,161	14,249	14,372	14,299	14,361	14,378
Males, 16 years and over	52,732	53,086	53,643	54,005	54,716	54,922	55,421	55,603	56,010	56,417	56,381	56,564	56,648
16 to 19 years	3,906	3,986	4,121	4,127	4,271	4,224	4,287	4,320	4,274	4,288	4,245	4,201	4,216
16 to 17 years	1,595	1,620	1,684	1,715	1,799	1,751	1,778	1,789	1,748	1,782	1,758	1,738	1,765
18 to 19 years	2,309	2,365	2,426	2,418	2,469	2,472	2,504	2,544	2,530	2,504	2,477	2,461	2,456
20 to 24 years	6,854	6,956	6,953	7,062	7,149	7,158	7,344	7,359	7,449	7,537	7,547	7,533	7,521
25 years and over	41,967	42,147	42,571	42,820	43,283	43,540	43,788	43,934	44,273	44,598	44,586	44,845	44,895
25 to 54 years	33,542	33,714	34,042	34,269	34,632	34,895	35,059	35,192	35,455	35,745	35,826	36,011	36,109
55 years and over	8,436	8,431	8,536	8,539	8,655	8,641	8,743	8,732	8,815	8,859	8,772	8,821	8,778
Females, 16 years and over	35,509	35,888	36,545	36,908	37,392	38,032	38,724	39,132	39,643	40,008	40,086	40,667	41,017
16 to 19 years	3,348	3,398	3,452	3,547	3,551	3,548	3,722	3,770	3,780	3,818	3,725	3,684	3,763
16 to 17 years	1,300	1,351	1,357	1,401	1,411	1,408	1,516	1,537	1,549	1,552	1,485	1,470	1,530
18 to 19 years	2,057	2,054	2,092	2,137	2,144	2,140	2,201	2,229	2,232	2,273	2,231	2,210	2,239
20 to 24 years	5,580	5,677	5,810	5,865	5,940	6,019	6,127	6,225	6,303	6,363	6,340	6,370	6,357
25 years and over	26,583	26,813	27,288	27,487	27,909	28,458	28,885	29,123	29,571	29,818	30,038	30,602	30,907
25 to 54 years	21,429	21,710	22,089	22,322	22,630	23,128	23,447	23,714	24,145	24,298	24,455	25,081	25,314
55 years and over	5,153	5,106	5,184	5,174	5,284	5,324	5,421	5,429	5,434	5,513	5,514	5,540	5,600

NOTE: Data in this table have been revised. See article on page 8.



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

(In thousands)

Selected categories	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>CHARACTERISTICS</b>													
Total, 16 years and over .....	88,242	88,974	90,188	90,913	92,108	92,954	94,145	94,734	95,653	96,425	96,467	97,231	97,665
Married men, spouse present .....	38,025	38,189	38,463	38,377	38,562	38,527	38,625	38,666	38,938	39,208	39,011	39,185	38,964
Married women, spouse present .....	20,494	20,687	20,933	20,987	21,291	21,585	21,760	21,921	22,250	22,500	22,529	22,905	22,962
<b>OCCUPATION</b>													
White-collar workers .....	44,353	44,446	44,757	45,319	46,227	46,534	46,957	47,382	47,951	48,712	49,130	49,672	49,854
Professional and technical .....	13,542	13,449	13,508	13,788	14,035	14,019	14,212	14,255	14,509	14,899	15,067	15,089	15,153
Managers and administrators, except farm .....	9,486	9,509	9,515	9,681	9,941	10,085	10,100	10,123	10,114	10,361	10,453	10,656	10,597
Sales workers .....	5,642	5,681	5,705	5,756	5,767	5,871	5,905	5,960	6,061	6,064	6,056	6,163	6,323
Clerical workers .....	15,683	15,807	16,029	16,094	16,484	16,558	16,740	17,044	17,267	17,388	17,514	17,764	17,780
Blue-collar workers .....	29,170	29,736	30,204	30,293	30,605	30,934	31,567	31,563	32,031	32,169	31,867	32,036	32,206
Craft and kindred workers .....	11,388	11,652	11,864	11,913	12,095	12,138	12,307	12,462	12,631	12,832	12,822	12,877	12,989
Operatives, except transport .....	10,098	10,300	10,383	10,341	10,404	10,649	10,938	10,872	11,043	10,950	10,776	10,919	10,991
Transport equipment operatives .....	3,300	3,419	3,487	3,492	3,506	3,526	3,519	3,508	3,613	3,607	3,604	3,616	3,619
Nonfarm laborers .....	4,384	4,365	4,471	4,547	4,600	4,620	4,803	4,740	4,744	4,779	4,664	4,625	4,607
Service workers .....	11,982	12,104	12,397	12,509	12,547	12,706	12,847	12,854	12,947	12,823	12,828	12,749	12,935
Farm workers .....	2,770	2,692	2,835	2,711	2,771	2,807	2,786	2,818	2,773	2,761	2,655	2,702	2,702
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
Agriculture:													
Wage and salary workers .....	1,318	1,288	1,324	1,322	1,382	1,389	1,424	1,428	1,426	1,409	1,409	1,401	1,436
Self-employed workers .....	1,592	1,535	1,610	1,553	1,573	1,588	1,617	1,621	1,596	1,566	1,537	1,605	1,607
Unpaid family workers .....	343	344	377	315	340	342	296	320	309	314	288	309	311
Nonagricultural industries:													
Wage and salary workers .....	78,767	79,453	80,413	81,118	82,204	82,917	84,041	84,561	85,459	86,220	86,215	86,596	87,129
Government .....	14,922	14,993	15,050	15,211	15,346	15,274	15,283	15,265	15,317	15,285	15,431	15,360	15,393
Private industries .....	63,844	64,461	65,363	65,907	66,859	67,643	68,759	69,295	70,142	70,935	70,784	71,236	71,736
Private households .....	1,387	1,357	1,358	1,394	1,389	1,372	1,400	1,365	1,313	1,279	1,201	1,248	1,233
Other industries .....	62,457	63,104	64,005	64,513	65,470	66,271	67,359	67,930	68,829	69,656	69,584	69,988	70,503
Self-employed workers .....	5,759	5,844	5,982	6,065	6,135	6,269	6,312	6,241	6,404	6,543	6,567	6,724	6,777
Unpaid family workers .....	470	483	506	503	474	476	482	466	463	455	466	473	419
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	79,965	80,680	81,480	82,450	83,339	83,994	85,813	86,068	86,833	87,637	87,381	88,782	88,812
Full-time schedules .....	65,502	66,120	66,919	67,654	68,344	69,155	70,473	70,938	71,596	72,306	72,133	73,042	73,113
Part time for economic reasons .....	3,438	3,365	3,239	3,315	3,266	3,167	3,279	3,257	3,159	3,197	3,282	3,246	3,409
Usually work full time .....	1,278	1,277	1,251	1,253	1,243	1,192	1,272	1,298	1,228	1,251	1,294	1,336	1,419
Usually work part time .....	2,160	2,088	1,989	2,062	2,023	1,975	2,007	1,958	1,931	1,946	1,988	1,910	1,989
Part time for noneconomic reasons .....	11,025	11,194	11,322	11,481	11,729	11,671	12,062	11,874	12,078	12,134	11,966	12,494	12,290

<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.

NOTE: Data in this table have been revised. See article on page 9.

# 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	1976	1977				1978				1979			
	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
<b>TOTAL</b>													
Both sexes, 16 years and over:													
Total not in labor force.....	59,219	59,294	58,959	59,126	58,815	58,869	58,432	58,458	58,384	58,255	58,824	58,568	58,642
Do not want job now.....	53,791	53,681	53,170	53,398	53,125	53,568	53,169	52,928	53,068	53,236	53,666	52,955	53,563
Current activity:													
Going to school.....	6,332	6,173	6,159	6,214	6,200	6,261	6,227	6,007	5,969	5,944	5,976	5,974	6,003
Ill, disabled.....	4,600	4,712	4,509	4,567	4,395	4,505	4,573	4,424	4,629	4,563	4,542	4,480	4,540
Keeping house.....	30,349	30,603	30,098	30,123	30,113	29,711	29,647	29,422	29,296	29,303	29,215	28,723	28,736
Retired.....	8,787	8,721	9,051	9,045	9,036	9,408	9,196	9,400	9,466	9,583	9,979	9,978	10,206
Other.....	3,724	3,472	3,353	3,445	3,381	3,633	3,526	3,675	3,708	3,845	3,954	3,799	4,078
Want a job now.....	5,454	5,535	5,759	5,818	5,570	5,434	5,299	5,386	5,261	5,246	5,150	5,527	5,287
Reason not looking:													
School attendance.....	1,500	1,519	1,513	1,587	1,514	1,415	1,312	1,455	1,351	1,348	1,378	1,564	1,493
Ill health, disability.....	635	686	783	808	746	699	754	703	722	750	708	772	751
Home responsibilities.....	1,292	1,225	1,276	1,278	1,222	1,226	1,236	1,227	1,219	1,227	1,220	1,266	1,238
Think cannot get job.....	1,002	965	1,058	1,030	977	925	836	851	772	740	807	731	741
Job-market factors.....	734	677	740	713	635	645	537	612	491	495	507	531	459
Personal factors.....	268	289	318	317	341	281	300	239	281	245	300	200	282
Other reasons <sup>1</sup> .....	1,025	1,140	1,127	1,115	1,111	1,169	1,150	1,151	1,197	1,181	1,078	1,194	1,064
<b>Males</b>													
Total not in labor force.....	16,400	16,568	16,503	16,642	16,414	16,587	16,586	16,742	16,675	16,588	16,556	16,948	17,211
Do not want job now.....	14,753	14,811	14,662	14,808	14,658	14,885	14,889	15,050	14,952	15,012	15,395	15,177	15,485
Want a job now.....	1,668	1,673	1,779	1,806	1,733	1,742	1,647	1,700	1,676	1,679	1,537	1,826	1,725
Reason not looking:													
School attendance.....	717	762	786	760	746	710	649	727	697	666	686	815	739
Ill health, disability.....	270	298	332	343	321	315	336	326	327	362	276	355	337
Think cannot get job.....	353	290	311	350	323	340	300	287	294	294	256	286	285
Other reasons <sup>1</sup> .....	328	323	350	353	314	377	362	359	358	358	319	370	364
<b>Females</b>													
Total not in labor force.....	42,819	42,725	42,456	42,883	42,401	42,281	41,846	41,716	41,709	41,667	41,868	41,620	41,632
Do not want job now.....	39,038	38,870	38,508	38,590	38,467	38,683	38,280	37,878	38,115	38,226	38,271	37,778	38,078
Want a job now.....	3,785	3,862	3,990	4,012	3,867	3,691	3,642	3,666	3,584	3,566	3,653	3,701	3,562
Reason not looking:													
School attendance.....	783	757	721	827	769	704	664	727	655	682	692	749	753
Ill health, disability.....	365	387	451	466	426	384	418	376	395	389	432	417	414
Home responsibilities.....	1,292	1,225	1,278	1,278	1,222	1,226	1,236	1,227	1,219	1,227	1,220	1,266	1,238
Think cannot get job.....	649	675	747	680	654	585	536	564	478	446	551	445	455
Other reasons.....	697	817	777	762	797	792	789	752	839	823	759	824	700
<b>White</b>													
Total not in labor force.....	51,709	51,757	51,409	51,584	51,316	51,479	51,074	51,083	50,912	50,696	51,220	50,988	51,145
Do not want job now.....	47,530	47,390	47,081	47,309	46,945	47,419	47,150	46,913	46,854	46,850	47,276	46,845	46,983
Want a job now.....	4,165	4,267	4,325	4,271	4,298	4,154	3,977	4,256	3,911	3,991	3,919	4,274	4,014
Reason not looking:													
School attendance.....	1,067	1,179	1,095	1,092	1,109	1,038	961	1,202	989	985	966	1,222	1,124
Ill health, disability.....	450	520	630	571	559	500	536	516	516	541	505	529	521
Home responsibilities.....	1,031	978	976	958	979	959	962	961	904	952	944	980	968
Think cannot get job.....	748	692	725	717	720	660	569	585	537	527	564	541	540
Other reasons.....	850	898	899	933	932	958	939	951	962	986	929	1,002	861
<b>Black and other</b>													
Total not in labor force.....	7,478	7,542	7,565	7,554	7,480	7,391	7,373	7,379	7,454	7,541	7,628	7,607	7,678
Do not want job now.....	6,202	6,221	6,098	6,076	6,241	6,071	6,075	6,137	6,149	6,244	6,372	6,305	6,451
Want a job now.....	1,269	1,311	1,368	1,584	1,245	1,331	1,265	1,222	1,317	1,287	1,193	1,345	1,236
Reason not looking:													
School attendance.....	406	346	403	510	401	363	334	319	357	370	390	401	367
Ill health, disability.....	190	182	157	223	190	216	218	170	204	230	169	219	234
Home responsibilities.....	279	270	284	337	236	275	280	282	309	278	261	315	262
Think cannot get job.....	255	291	301	316	249	287	285	274	232	221	216	200	191
Other reasons.....	139	222	223	197	169	171	198	178	216	187	135	211	181

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

NOTE: Data in this table have been revised. See article on page 9.

# 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	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>TOTAL</b>										
Total not in labor force . . . . .	58,307	58,744	7,216	7,233	4,536	4,584	21,705	21,376	24,850	25,551
Do not want a job now . . . . .	53,297	53,717	5,999	5,921	3,795	3,788	19,250	18,992	24,253	25,019
Current activity:										
Going to school . . . . .	7,631	7,676	5,171	5,199	1,774	1,740	679	715	9	25
Ill, disabled . . . . .	4,533	4,445	56	34	122	138	2,201	2,053	2,152	2,220
Keeping house . . . . .	29,006	28,440	508	390	1,600	1,607	14,478	14,197	12,420	12,247
Retired . . . . .	9,337	10,050	--	--	--	--	229	205	9,107	9,843
Other . . . . .	2,790	3,106	264	298	299	303	1,663	1,822	565	684
Want a job now . . . . .	5,009	5,026	1,218	1,311	741	796	2,455	2,385	596	535
Reason not looking:										
School attendance . . . . .	1,282	1,414	941	1,024	202	235	130	150	8	4
Ill health, disability . . . . .	738	768	27	28	38	67	473	500	200	173
Home responsibilities . . . . .	1,149	1,167	75	61	219	242	816	827	40	38
Think cannot get job . . . . .	729	700	81	99	97	86	401	377	150	137
Job-market factors . . . . .	469	438	53	56	81	62	304	268	32	54
Personal factors . . . . .	260	262	27	45	16	25	99	107	117	83
Other reasons <sup>1</sup> . . . . .	1,110	977	94	99	185	166	635	531	198	183
<b>Males</b>										
Total not in labor force	16,959	17,502	3,352	3,423	1,397	1,413	3,069	3,152	9,142	9,513
Do not want a job now . . . . .	15,410	15,911	2,740	2,803	1,197	1,169	2,595	2,686	8,873	9,253
Current activity:										
Going to school . . . . .	3,867	3,878	2,576	2,650	979	915	308	311	1	2
Ill, disabled . . . . .	2,438	2,415	24	25	57	64	1,224	1,175	1,132	1,151
Keeping house . . . . .	276	272	13	10	11	12	41	65	209	186
Retired . . . . .	7,273	7,597	--	--	--	--	206	180	7,067	7,414
Other . . . . .	1,556	1,749	127	118	150	178	816	955	464	500
Want a job now . . . . .	1,548	1,590	611	619	199	244	473	468	267	260
Reason not looking:										
School attendance . . . . .	661	699	523	527	86	120	50	52	4	--
Ill health, disability . . . . .	325	333	8	17	17	36	203	199	97	81
Think cannot get job . . . . .	249	243	50	57	32	45	97	81	70	61
Other reasons <sup>1</sup> . . . . .	313	315	30	18	64	43	123	136	96	118
<b>Females</b>										
Total not in labor force . . . . .	41,348	41,242	3,864	3,809	3,139	3,171	18,636	18,223	15,708	16,038
Do not want a job now . . . . .	37,887	37,806	3,260	3,118	2,597	2,619	16,654	16,306	15,379	15,764
Current activity:										
Going to school . . . . .	3,764	3,799	2,595	2,548	794	824	370	403	7	23
Ill, disabled . . . . .	2,095	2,030	33	9	65	74	978	879	1,019	1,068
Keeping house . . . . .	28,730	28,168	494	380	1,589	1,595	14,436	14,133	12,211	12,060
Retired . . . . .	2,064	2,453	--	--	--	--	23	25	2,040	2,429
Other . . . . .	1,234	1,356	138	181	149	126	847	866	102	184
Want a job now . . . . .	3,461	3,435	606	690	543	552	1,982	1,918	331	274
Reason not looking:										
School attendance . . . . .	621	714	419	497	117	115	81	98	4	4
Ill health, disability . . . . .	413	435	18	11	21	31	270	301	104	93
Home responsibilities . . . . .	1,149	1,167	75	61	219	242	816	827	40	38
Think cannot get job . . . . .	480	457	30	42	65	41	304	297	81	76
Other reasons . . . . .	798	662	64	79	121	123	511	395	102	63

<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						Sex			
			16-24		25-59		60 and over		Males		Females	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>WHITE</b>												
Total not in labor force	50,819	51,036	9,375	9,337	18,915	18,590	22,529	23,108	14,486	14,885	36,333	36,151
Do not want a job now	47,088	47,204	7,996	7,807	17,067	16,719	22,030	22,682	13,326	13,648	33,762	33,556
Current activity:												
Going to school	6,168	6,166	5,599	5,573	562	570	6	25	3,138	3,105	3,030	3,061
Ill, disabled	3,651	3,585	117	111	1,756	1,598	1,782	1,876	2,010	2,028	1,641	1,557
Keeping house	26,462	25,807	1,849	1,691	13,153	12,845	11,461	11,273	229	200	26,233	25,607
Retired	8,483	9,097	--	--	224	203	8,258	8,892	6,656	6,895	1,827	2,202
Other	2,324	2,549	431	432	1,372	1,503	523	616	1,293	1,420	1,031	1,129
Want a job now	3,731	3,831	1,384	1,530	1,849	1,872	499	428	1,160	1,236	2,571	2,595
Reason not looking:												
School attendance	915	1,044	809	930	99	108	8	4	489	532	426	512
Ill health, disability	538	535	45	76	342	339	150	121	228	256	310	279
Home responsibilities	863	927	205	204	624	686	34	37	--	--	863	927
Think cannot get job	512	518	110	130	271	283	131	106	177	178	335	340
Other reasons <sup>1</sup>	903	807	215	190	513	456	176	160	266	270	637	537
<b>BLACK AND OTHER</b>												
Total not in labor force	7,487	7,708	2,377	2,479	2,790	2,785	2,321	2,443	2,472	2,617	5,015	5,091
Do not want a job now	6,207	6,511	1,802	1,904	2,180	2,266	2,225	2,340	2,083	2,261	4,124	4,250
Current activity:												
Going to school	1,463	1,510	1,347	1,366	115	142	2	--	729	772	734	738
Ill, disabled	881	858	64	61	447	453	371	345	428	386	453	472
Keeping house	2,543	2,633	260	307	1,324	1,352	959	975	46	72	2,497	2,561
Retired	854	953	--	--	5	2	850	951	617	702	237	251
Other	466	557	131	170	289	317	43	69	263	329	203	228
Want a job now	1,279	1,196	574	575	606	516	96	103	389	355	890	841
Reason not looking:												
School attendance	367	370	334	329	32	43	--	--	172	168	195	202
Ill health, disability	200	233	20	20	129	162	50	51	97	77	103	156
Home responsibilities	286	240	88	98	192	142	6	--	--	--	286	240
Think cannot get job	218	183	68	55	131	94	18	31	72	65	145	118
Other reasons <sup>1</sup>	209	170	64	73	122	75	22	21	48	45	161	125

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

## 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)

4th Quarter 1979

Detailed reason for not seeking work	Total	Age in years				Race	
		16-19	20-24	25-59	60 and over	White	Black and other
TOTAL							
Personal factors:							
Employers think too young or old . . . . .	108	11	2	19	75	88	20
Lacks education or training . . . . .	89	21	10	57	--	67	21
Other personal handicap . . . . .	66	13	13	31	8	56	10
Job-market factors:							
Could not find job . . . . .	221	39	48	103	32	123	98
Thinks no job available . . . . .	217	17	14	165	22	185	32
Males							
Personal factors:							
Employers think too young or old . . . . .	49	5	2	7	35	39	10
Lacks education or training . . . . .	40	15	6	19	--	26	14
Other personal handicap . . . . .	27	8	6	7	6	27	--
Job-market factors:							
Could not find job . . . . .	69	16	21	23	9	37	31
Thinks no job available . . . . .	58	13	11	23	10	49	9
Females							
Personal factors:							
Employers think too young or old . . . . .	59	6	--	12	41	49	10
Lacks education or training . . . . .	48	5	5	38	--	41	7
Other personal handicap . . . . .	39	3	8	25	2	29	10
Job-market factors:							
Could not find job . . . . .	152	23	27	80	23	86	67
Thinks no job available . . . . .	159	4	2	141	11	136	23

# 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					
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
Total, not in labor force	58,307	58,744	11,752	11,817	21,705	21,376	24,850	25,551	50,819	51,036	7,487	7,708
Never worked	8,793	8,894	4,407	4,424	1,985	2,104	2,400	2,366	6,946	6,932	1,847	1,962
Last worked over 5 years ago	28,417	29,144	248	260	10,966	10,916	17,204	17,967	25,448	25,956	2,970	3,188
Last worked 1 to 5 years ago	10,679	10,353	1,602	1,615	5,157	4,881	3,920	3,856	9,400	9,084	1,278	1,269
Left job during previous 12 months	10,417	10,350	5,494	5,515	3,596	3,472	1,326	1,362	9,025	9,063	1,392	1,287
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	49.4	51.9	66.2	69.1	40.0	42.0	5.9	7.3	50.7	52.6	41.2	47.1
Ill health, disability	6.9	7.1	1.9	1.8	11.9	12.5	14.0	14.7	6.5	6.6	9.3	10.9
Retirement, old age	7.6	7.5	--	--	4.1	3.9	48.2	46.8	8.1	8.1	4.2	3.2
Economic reasons	19.7	17.3	17.2	13.5	22.4	21.4	22.3	22.2	18.3	16.7	28.0	21.3
End of seasonal job	9.5	7.4	10.2	7.6	8.5	6.7	9.6	8.8	8.6	7.4	15.9	7.5
Slack work	4.4	4.5	3.2	2.7	5.9	7.4	4.7	4.1	4.2	4.2	5.0	6.2
End of temporary job	5.8	5.4	3.8	3.3	7.9	7.3	8.1	9.3	5.5	5.1	7.2	7.5
All other reasons	16.4	16.2	14.7	15.5	21.6	20.3	9.6	8.9	16.3	16.0	17.3	17.5
Males, not in labor force	16,959	17,502	4,749	4,836	3,069	3,152	9,142	9,513	14,486	14,885	2,472	2,617
Never worked	1,955	2,056	1,709	1,744	219	267	27	44	1,382	1,421	573	635
Last worked over 5 years ago	7,216	7,832	36	35	1,060	1,281	6,120	6,516	6,279	6,791	937	1,041
Last worked 1 to 5 years ago	3,686	3,460	376	411	1,045	898	2,266	2,152	3,238	3,071	448	389
Left job during previous 12 months	4,101	4,153	2,627	2,645	745	705	728	803	3,587	3,602	514	551
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	46.5	47.8	66.1	68.3	20.9	20.9	2.5	4.1	47.3	48.1	41.6	45.8
Ill health, disability	8.8	8.4	1.9	1.9	25.8	24.1	16.1	15.7	8.8	8.4	8.6	8.0
Retirement, old age	11.4	11.7	--	1.1	11.8	9.8	52.3	51.3	12.7	12.5	2.9	6.2
Economic reasons	19.7	17.3	19.7	14.9	17.8	19.5	21.6	22.8	18.2	16.8	30.0	20.2
End of seasonal job	11.0	9.0	12.2	9.6	7.7	6.1	9.8	9.3	9.6	9.0	20.2	8.7
Slack work	4.1	3.8	3.3	2.5	6.2	8.5	5.0	3.9	4.2	3.8	3.5	3.5
End of temporary job	4.6	4.5	4.2	2.8	3.9	4.8	6.9	9.6	4.4	4.0	6.2	8.0
All other reasons	13.5	15.0	12.3	14.8	23.7	25.7	7.6	6.1	13.0	14.2	16.9	19.8
Females, not in labor force	41,348	41,242	7,003	6,980	18,636	18,223	15,708	16,038	36,333	36,151	5,015	5,091
Never worked	6,838	6,838	2,699	2,679	1,766	1,837	2,373	2,322	5,564	5,511	1,274	1,327
Last worked over 5 years ago	21,201	21,313	212	226	9,905	9,636	11,083	11,451	19,769	19,165	2,033	2,147
Last worked 1 to 5 years ago	6,993	6,893	1,226	1,204	4,113	3,984	1,653	1,705	6,162	6,013	830	880
Left job during previous 12 months	6,316	6,198	2,866	2,870	2,851	2,768	599	560	5,438	5,461	878	736
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	51.3	54.7	66.2	69.9	45.1	47.5	9.8	12.1	53.0	55.5	40.9	48.1
Ill health, disability	5.7	6.3	1.9	1.8	8.2	9.5	11.5	13.4	5.0	5.3	9.7	13.0
Retirement, old age	5.0	4.7	--	--	2.0	2.3	43.2	40.2	5.0	5.2	5.0	1.0
Economic reasons	19.6	17.3	14.9	12.2	23.5	21.8	23.4	21.4	18.4	16.7	26.9	22.1
End of seasonal job	8.6	6.4	8.3	5.7	8.8	6.7	9.3	7.9	7.8	6.3	13.3	6.7
Slack work	4.5	4.9	3.2	2.8	5.8	7.1	4.5	4.6	4.3	4.4	5.8	8.3
End of temporary job	6.5	6.1	3.5	3.7	8.9	8.0	9.5	8.9	6.3	5.9	7.8	7.2
All other reasons	18.3	17.1	16.9	16.1	21.1	18.9	12.0	12.9	18.5	17.2	17.4	15.8

## 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]

[in thousands]												
Work-seeking intentions and work history	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over					
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>Total</b>												
Do not intend to seek work .....	48,373	48,843	5,909	5,906	18,250	18,023	24,215	24,913	42,799	42,920	5,573	5,923
Intend to seek work in the next 12 months .....	9,933	9,899	5,843	5,910	3,455	3,352	635	638	8,020	8,115	1,914	1,785
Never worked .....	1,533	1,549	1,424	1,404	102	138	7	8	1,101	1,172	432	377
Last worked over 5 years ago .....	1,108	1,129	47	67	922	867	139	194	889	897	218	231
Last worked 1 to 5 years ago .....	1,934	1,840	621	636	1,059	995	255	209	1,487	1,436	447	404
Worked during previous 12 months .....	5,358	5,382	3,752	3,804	1,371	1,350	234	228	4,542	4,610	816	772
<b>Males</b>												
Do not intend to seek work .....	13,280	13,759	2,024	2,112	2,442	2,484	8,813	9,164	11,439	11,806	1,840	1,953
Intend to seek work in the next 12 months .....	3,679	3,742	2,724	2,723	626	669	328	350	3,047	3,078	632	664
Never worked .....	659	601	637	573	23	29	--	--	473	421	186	180
Last worked over 5 years ago .....	121	219	8	16	76	103	37	99	86	160	35	59
Last worked 1 to 5 years ago .....	505	538	176	217	177	198	152	124	410	428	95	110
Worked during previous 12 months .....	2,393	2,383	1,905	1,919	350	338	139	127	2,077	2,069	316	314
<b>Females</b>												
Do not intend to seek work .....	35,093	35,084	3,885	3,794	15,806	15,540	15,402	15,749	31,360	31,114	3,733	3,970
Intend to seek work in the next 12 months .....	6,254	6,157	3,119	3,186	2,828	2,683	306	289	4,973	5,037	1,282	1,121
Never worked .....	874	948	788	831	80	110	7	8	628	751	246	197
Last worked over 5 years ago .....	986	909	38	52	847	763	102	95	803	737	183	172
Last worked 1 to 5 years ago .....	1,429	1,302	445	420	882	796	103	85	1,077	1,008	352	294
Worked during previous 12 months .....	2,965	2,998	1,848	1,885	1,021	1,013	96	101	2,465	2,541	500	458

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-59. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin

(Numbers in thousands)

Employment status	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>TOTAL</b>								
Civilian noninstitutional population . . . . .	159,922	162,591	140,336	142,468	16,797	17,179	7,512	7,923
Civilian labor force . . . . .	101,615	103,847	89,517	91,432	10,308	10,510	4,847	5,061
Percent of population . . . . .	63.5	63.9	63.8	64.2	61.4	61.2	64.5	63.9
Employment . . . . .	96,010	98,049	85,230	86,956	9,113	9,310	4,455	4,626
Agriculture . . . . .	3,215	3,240	2,900	2,950	261	238	183	220
Nonagricultural industries . . . . .	92,796	94,810	82,330	84,008	8,852	9,072	4,272	4,405
Unemployment . . . . .	5,605	5,798	4,287	4,473	1,195	1,199	392	435
Unemployment rate . . . . .	5.5	5.6	4.8	4.9	11.6	11.4	8.1	8.6
Not in labor force . . . . .	58,307	58,744	50,819	51,036	6,489	6,670	2,665	2,862
<b>Males, 20 years and over</b>								
Civilian noninstitutional population . . . . .	67,489	68,814	59,902	61,001	6,460	6,631	3,074	3,242
Civilian labor force . . . . .	53,882	54,735	48,056	48,775	4,934	5,043	2,631	2,758
Percent of population . . . . .	79.8	79.5	80.2	80.0	76.4	76.1	85.6	85.1
Employment . . . . .	51,853	52,545	46,490	47,077	4,510	4,558	2,487	2,599
Agriculture . . . . .	2,329	2,389	2,069	2,153	221	197	140	180
Nonagricultural industries . . . . .	49,523	50,156	44,420	44,924	4,289	4,402	2,347	2,419
Unemployment . . . . .	2,030	2,190	1,566	1,698	424	444	144	159
Unemployment rate . . . . .	3.8	4.0	3.3	3.5	8.6	8.8	5.5	5.8
Not in labor force . . . . .	13,607	14,078	11,846	12,226	1,526	1,587	443	484
<b>Females, 20 years and over</b>								
Civilian noninstitutional population . . . . .	76,003	77,425	66,536	67,659	8,106	8,327	3,444	3,656
Civilian labor force . . . . .	38,520	39,993	33,238	34,484	4,521	4,662	1,716	1,778
Percent of population . . . . .	50.7	51.7	50.0	51.0	55.8	56.0	49.8	48.6
Employment . . . . .	36,397	37,812	31,632	32,822	4,056	4,200	1,567	1,604
Agriculture . . . . .	568	571	532	531	27	31	26	24
Nonagricultural industries . . . . .	35,829	37,241	31,100	32,290	4,029	4,169	1,541	1,580
Unemployment . . . . .	2,123	2,181	1,606	1,662	465	462	149	174
Unemployment rate . . . . .	5.5	5.5	4.8	4.8	10.3	9.9	8.7	9.8
Not in labor force . . . . .	37,483	37,433	33,299	33,175	3,585	3,666	1,728	1,878
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population . . . . .	16,429	16,352	13,898	13,807	2,231	2,221	994	1,025
Civilian labor force . . . . .	9,213	9,119	8,224	8,173	853	805	501	525
Percent of population . . . . .	56.1	55.8	59.2	59.2	38.2	36.2	50.4	51.2
Employment . . . . .	7,761	7,692	7,109	7,059	548	512	401	423
Agriculture . . . . .	317	280	299	266	14	11	17	17
Nonagricultural industries . . . . .	7,443	7,412	6,810	6,794	534	501	384	406
Unemployment . . . . .	1,452	1,427	1,115	1,114	305	293	100	102
Unemployment rate . . . . .	15.8	15.7	13.6	13.6	35.8	36.4	19.9	19.5
Not in labor force . . . . .	7,216	7,233	5,674	5,634	1,377	1,417	493	500

<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> 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 Census, approximately 96 percent of their population was white.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-60 Employment status of persons of Mexican, Puerto Rican, and Cuban origin by sex and age

(Numbers in thousands)

Employment status	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>TOTAL</b>								
Civilian noninstitutional population	7,312	7,923	4,456	4,746	1,064	1,009	579	594
Civilian labor force	4,347	5,061	2,592	3,173	532	512	390	387
Percent of population	64.5	63.9	67.1	66.9	50.0	50.7	67.4	65.2
Employment	4,455	4,626	2,762	2,884	470	458	354	362
Agriculture	133	220	163	198	6	4	7	3
Nonagricultural industries	4,272	4,405	2,602	2,686	464	454	348	358
Unemployment	392	435	230	289	62	54	36	26
Unemployment rate	8.1	8.6	7.7	9.1	11.7	10.5	9.2	6.6
Not in labor force	2,665	2,862	1,464	1,573	531	497	188	206
<b>Males, 20 years and over</b>								
Civilian noninstitutional population	3,074	3,242	1,910	2,031	380	363	225	225
Civilian labor force	2,631	2,758	1,672	1,782	300	285	194	191
Percent of population	85.6	85.1	87.5	87.7	78.9	78.5	86.2	84.9
Employment	2,487	2,599	1,592	1,679	269	265	179	182
Agriculture	140	180	122	164	5	1	7	3
Nonagricultural industries	2,347	2,419	1,470	1,515	264	263	172	179
Unemployment	144	159	80	103	30	20	15	9
Unemployment rate	5.5	5.8	4.8	5.8	10.1	7.2	7.9	4.7
Not in labor force	443	484	238	249	80	78	31	33
<b>Females, 20 years and over</b>								
Civilian noninstitutional population	3,444	3,656	1,916	2,076	543	492	299	299
Civilian labor force	1,716	1,778	982	1,019	185	179	169	163
Percent of population	49.8	48.6	51.3	49.1	34.1	36.4	57.0	54.5
Employment	1,567	1,604	892	905	167	160	155	152
Agriculture	26	24	23	20	--	3	--	--
Nonagricultural industries	1,541	1,580	869	885	167	157	155	152
Unemployment	149	174	90	114	17	19	13	11
Unemployment rate	8.7	9.8	9.2	11.2	9.5	10.6	7.9	6.6
Not in labor force	1,728	1,878	934	1,057	358	313	130	135
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population	994	1,025	630	640	142	154	54	70
Civilian labor force	501	525	338	372	48	48	28	33
Percent of population	50.4	51.2	53.7	58.1	33.8	31.2	(2)	47.1
Employment	501	423	278	300	34	33	20	27
Agriculture	17	17	15	15	2	--	--	--
Nonagricultural industries	384	406	263	286	32	34	20	27
Unemployment	100	102	59	71	14	14	7	6
Unemployment rate	19.9	19.5	17.6	19.2	(2)	(2)	(2)	(2)
Not in labor force	493	500	292	268	94	106	27	38

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

NOTE: See note, table A-59.

<sup>2</sup> Percent not shown where base is less than 60,000.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-61. Employed persons by selected social and economic categories, race, and Hispanic origin

[In thousands]

Selected categories	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>CHARACTERISTICS</b>								
Total, 16 years and over .....	96,010	98,049	85,230	86,958	10,780	11,091	4,455	4,626
Males .....	55,896	56,533	50,191	50,742	5,705	5,791	2,715	2,852
Females .....	40,114	41,516	35,039	36,217	5,075	5,300	1,740	1,774
<b>OCCUPATION</b>								
White-collar workers .....	48,415	50,342	44,444	46,113	3,971	4,230	1,452	1,521
Professional and technical .....	14,686	15,329	13,398	13,988	1,288	1,342	337	350
Managers and administrators, except farm ..	10,152	10,629	9,625	10,024	527	605	246	275
Sales workers .....	6,161	6,438	5,845	6,121	316	316	179	191
Clerical workers .....	17,416	17,946	15,575	15,980	1,841	1,967	690	705
Blue-collar workers .....	31,976	32,158	28,010	28,007	3,966	4,150	2,119	2,154
Craft and kindred workers .....	12,621	12,974	11,671	11,930	950	1,044	597	640
Operatives, except transport .....	11,111	11,064	9,428	9,334	1,683	1,730	980	1,005
Transport equipment operatives .....	3,637	3,643	3,099	3,085	538	558	176	170
Nonfarm laborers .....	4,607	4,476	3,812	3,658	795	818	366	339
Service workers .....	12,951	12,946	10,367	10,456	2,584	2,489	734	784
Farm workers .....	2,668	2,604	2,410	2,382	258	222	150	166
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,342	1,352	1,097	1,135	245	217	164	200
Self-employed workers .....	1,598	1,611	1,534	1,548	64	63	16	20
Unpaid family workers .....	275	277	270	266	5	10	3	--
Nonagricultural industries:								
Wage and salary workers .....	86,003	87,689	75,951	77,319	10,052	10,370	4,060	4,191
Government .....	15,564	15,650	13,077	13,200	2,487	2,450	622	616
Private industries .....	70,439	72,038	62,874	64,119	7,565	7,920	3,438	3,574
Private households .....	1,345	1,263	897	862	447	401	77	97
Other industries .....	69,094	70,775	61,977	63,257	7,118	7,519	3,361	3,477
Self-employed workers .....	6,368	6,740	5,983	6,323	386	416	201	200
Unpaid family workers .....	424	381	396	367	28	15	11	15
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	78,358	79,903	69,430	70,696	8,927	9,207	3,773	3,911
Part time for economic reasons .....	3,115	3,360	2,550	2,758	565	602	202	247
Part time for noneconomic reasons .....	14,537	14,787	13,250	13,504	1,287	1,282	480	468

<sup>1</sup> See footnote 2, table A-59.

<sup>2</sup> Employed persons "with a job but not at work" during the survey period are distributed

proportionately among the full- and part-time employed categories.



# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-62. Employed persons of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories

[In thousands]

Selected categories	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>CHARACTERISTICS</b>								
Total, 16 years and over .....	4,455	4,626	2,762	2,884	470	458	354	362
Males .....	2,715	2,852	1,745	1,861	287	284	191	197
Females .....	1,740	1,774	1,017	1,023	184	174	163	165
<b>OCCUPATION</b>								
White-collar workers .....	1,452	1,521	812	816	142	173	139	155
Professional and technical .....	337	350	155	159	32	42	39	45
Managers and administrators, except farm ..	246	275	147	144	20	25	21	29
Sales workers .....	179	191	89	93	22	19	19	25
Clerical workers .....	690	705	421	420	68	87	60	56
Blue-collar workers .....	2,119	2,154	1,369	1,433	228	183	170	163
Craft and kindred workers .....	597	640	385	423	56	42	50	45
Operatives, except transport .....	980	1,005	590	647	127	99	97	85
Transport equipment operatives .....	176	170	114	114	24	16	7	15
Nonfarm laborers .....	366	339	280	249	21	26	16	18
Service workers .....	734	784	446	482	95	101	42	43
Farm workers .....	150	166	129	153	6	--	2	1
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	164	200	147	185	6	3	5	2
Self-employed workers .....	16	20	11	12	--	1	1	1
Unpaid family workers .....	3	--	3	1	--	--	--	--
Nonagricultural industries:								
Wage and salary workers .....	4,060	4,191	2,492	2,587	445	438	323	327
Government .....	622	616	407	387	77	90	31	37
Private industries .....	3,438	3,574	2,086	2,200	369	347	292	290
Private households .....	77	97	55	64	1	2	1	2
Other industries .....	3,361	3,477	2,031	2,136	368	345	291	288
Self-employed workers .....	201	200	105	90	18	16	25	30
Unpaid family workers .....	11	15	4	9	1	--	1	1
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	3,773	3,911	2,321	2,423	412	397	299	304
Part time for economic reasons .....	202	247	135	181	24	13	8	15
Part time for noneconomic reasons .....	480	468	306	280	35	48	47	43

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

<sup>2</sup> See footnote 2, table A-61.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-63. Employed persons by sex, age, race, and Hispanic origin

[In thousands]

Sex and age	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>Total, 16 years and over</b> .....	96,010	98,049	85,230	86,958	9,113	9,310	4,455	4,626
16 to 19 years .....	7,761	7,692	7,109	7,059	548	512	401	423
16 to 17 years .....	3,143	3,141	2,917	2,922	181	169	144	139
18 to 19 years .....	4,618	4,551	4,193	4,138	366	343	257	284
20 to 24 years .....	13,732	13,856	12,154	12,249	1,334	1,348	782	804
25 years and over .....	74,517	76,501	65,967	67,650	7,232	7,451	3,271	3,399
25 to 54 years .....	60,141	61,986	52,988	54,544	5,998	6,224	2,895	3,004
55 years and over .....	14,375	14,515	12,979	13,105	1,234	1,227	376	396
<b>Males, 16 years and over</b> .....	55,896	56,533	50,191	50,742	4,800	4,860	2,715	2,852
16 to 19 years .....	4,044	3,988	3,702	3,664	290	262	228	253
16 to 17 years .....	1,617	1,633	1,500	1,519	93	88	86	88
18 to 19 years .....	2,427	2,355	2,202	2,146	197	173	142	165
20 to 24 years .....	7,384	7,453	6,589	6,616	675	704	470	471
25 years and over .....	44,468	45,092	39,902	40,461	3,835	3,894	2,016	2,128
25 to 54 years .....	35,578	36,234	31,824	32,392	3,130	3,217	1,764	1,877
55 years and over .....	8,890	8,859	8,078	8,069	706	677	253	251
<b>Females, 16 years and over</b> .....	40,114	41,516	35,039	36,217	4,313	4,450	1,740	1,774
16 to 19 years .....	3,717	3,704	3,408	3,395	257	250	173	170
16 to 17 years .....	1,526	1,508	1,417	1,403	88	81	58	51
18 to 19 years .....	2,191	2,197	1,991	1,992	169	170	115	119
20 to 24 years .....	6,348	6,403	5,565	5,632	659	644	313	333
25 years and over .....	30,049	31,409	26,066	27,190	3,398	3,556	1,254	1,271
25 to 54 years .....	24,563	25,753	21,165	22,153	2,869	3,007	1,131	1,127
55 years and over .....	5,486	5,656	4,902	5,037	528	549	123	145

<sup>1</sup> See footnote 1, table A-59.

<sup>2</sup> See footnote 2, table A-59.

## A-64. Rates of unemployment by sex, age, race, and Hispanic origin

Sex and age	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>Total, 16 years and over</b> .....	5.5	5.6	4.8	4.9	11.6	11.4	8.1	8.6
16 to 19 years .....	15.8	15.7	13.6	13.6	35.8	36.4	19.9	19.5
16 to 17 years .....	18.7	17.2	16.9	15.3	38.7	40.9	27.7	26.8
18 to 19 years .....	13.6	14.5	11.1	12.4	34.2	33.8	14.8	15.3
20 to 24 years .....	8.4	8.8	6.7	7.4	20.6	19.8	9.5	11.4
25 years and over .....	3.7	3.8	3.4	3.4	7.0	7.1	6.0	6.3
25 to 54 years .....	4.0	4.1	3.5	3.6	7.4	7.8	6.3	6.5
55 years and over .....	2.9	2.7	2.6	2.6	5.1	3.7	3.8	5.0
<b>Males, 16 years and over</b> .....	4.8	4.9	4.1	4.3	10.7	10.7	6.7	6.8
16 to 19 years .....	16.1	15.6	14.0	13.9	34.1	34.5	17.9	16.2
16 to 17 years .....	19.9	17.7	18.2	16.2	39.5	37.2	25.7	20.4
18 to 19 years .....	13.3	14.1	11.0	12.2	31.1	33.1	12.3	13.7
20 to 24 years .....	8.0	8.5	6.5	7.4	20.3	18.3	8.2	10.0
25 years and over .....	3.0	3.2	2.7	2.8	6.2	6.9	4.8	4.8
25 to 54 years .....	3.1	3.4	2.8	2.9	6.6	7.5	5.0	4.8
55 years and over .....	2.6	2.3	2.4	2.4	4.3	4.0	3.8	4.9
<b>Females, 16 years and over</b> .....	6.5	6.5	5.7	5.7	12.6	12.2	10.3	11.4
16 to 19 years .....	15.4	15.7	13.0	13.3	37.6	38.2	22.4	24.0
16 to 17 years .....	17.3	16.7	15.5	14.2	37.9	44.5	30.5	35.7
18 to 19 years .....	14.1	15.0	11.2	12.7	37.5	34.6	17.6	17.4
20 to 24 years .....	8.7	9.2	7.0	7.4	20.9	21.5	11.4	13.3
25 years and over .....	4.8	4.7	4.4	4.3	7.9	7.4	7.9	8.8
25 to 54 years .....	5.1	5.0	4.7	4.5	8.2	8.1	8.3	9.3
55 years and over .....	3.3	3.1	3.0	3.0	6.2	3.3	3.9	5.2

<sup>1</sup> See footnote 1, table A-59.

<sup>2</sup> See footnote 2, table A-59.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-65. Unemployed persons by duration of unemployment, race, and Hispanic origin

[In thousands]

Weeks of unemployment	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>Duration</b>								
Total, 16 years and over .....	5,605	5,798	4,287	4,473	1,318	1,325	392	435
Less than 5 weeks .....	2,651	2,794	2,109	2,237	543	556	206	228
5 to 14 weeks .....	1,828	1,903	1,384	1,448	444	455	124	146
15 weeks and over .....	1,125	1,102	795	788	331	314	62	61
15 to 26 weeks .....	640	621	457	464	183	156	43	46
27 weeks and over .....	486	481	338	324	148	157	19	14
Average (mean) duration, in weeks .....	11.1	10.5	10.4	9.9	13.3	12.8	8.6	8.0
Median duration, in weeks .....	5.6	5.4	5.2	5.0	7.2	7.1	4.8	4.8
<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 .....	47.3	48.2	49.2	50.0	41.2	42.0	52.6	52.5
5 to 14 weeks .....	32.6	32.8	32.3	32.4	33.7	34.4	31.6	33.6
15 weeks and over .....	20.1	19.0	18.5	17.6	25.1	23.6	15.8	13.8
15 to 26 weeks .....	11.4	10.7	10.7	10.4	13.9	11.8	11.0	10.6
27 weeks and over .....	8.7	8.3	7.9	7.2	11.2	11.9	4.8	3.2

<sup>1</sup> See footnote 2, table A-59.

## A-66. Unemployed persons by reason for unemployment, race and Hispanic origin

[Numbers in thousands]

Reason for unemployment	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	5,605	5,798	4,287	4,473	1,318	1,325	392	435
Job losers .....	2,283	2,588	1,745	2,015	538	572	172	225
On layoff .....	618	826	505	690	112	137	31	52
Other job losers .....	1,665	1,761	1,240	1,326	425	436	141	173
Job leavers .....	839	816	701	688	138	128	57	64
Reentrants .....	1,742	1,699	1,342	1,290	400	409	111	94
New entrants .....	741	696	499	480	242	216	52	52
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	40.7	44.7	40.7	45.0	40.8	43.2	43.9	51.7
On layoff .....	11.0	14.3	11.8	15.4	8.5	10.3	7.9	12.0
Other job losers .....	29.7	30.4	28.9	29.6	32.3	32.9	36.0	39.8
Job leavers .....	15.0	14.1	16.4	15.4	10.5	9.6	14.5	14.7
Reentrants .....	31.1	29.3	31.3	28.8	30.3	30.8	28.3	21.6
New entrants .....	13.2	12.0	11.6	10.7	18.4	16.3	13.3	12.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	2.2	2.5	2.0	2.2	4.4	4.6	3.5	4.4
Job leavers .....	.8	.8	.8	.8	1.1	1.0	1.2	1.3
Reentrants .....	1.7	1.6	1.5	1.4	3.3	3.3	2.3	1.9
New entrants .....	.7	.7	.6	.5	2.0	1.7	1.1	1.0

<sup>1</sup> See footnote 2, table A-59.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-67. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninsti- tutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>VETERANS<sup>1</sup></b>										
Total, 20 years and over .....	8,424	8,559	7,990	8,130	7,645	7,819	345	311	4.3	3.8
20 to 24 years .....	664	476	593	435	521	385	71	50	12.0	11.5
25 to 39 years .....	6,998	7,189	6,742	6,925	6,490	6,686	252	238	3.7	3.4
25 to 29 years .....	2,175	1,856	2,076	1,747	1,958	1,658	118	89	5.7	5.1
30 to 34 years .....	3,524	3,633	3,405	3,536	3,307	3,438	99	98	2.9	2.8
35 to 39 years .....	1,299	1,700	1,261	1,642	1,225	1,590	35	52	2.8	3.1
40 years and over .....	762	894	656	770	634	748	22	22	3.4	2.9
<b>NONVETERANS<sup>2</sup></b>										
Total, 25 to 39 years .....	14,012	14,923	13,358	14,231	12,877	13,656	482	575	3.6	4.0
25 to 29 years .....	6,337	6,833	6,006	6,487	5,738	6,192	268	295	4.5	4.5
30 to 34 years .....	4,019	4,301	3,848	4,116	3,730	3,954	118	162	3.1	3.9
35 to 39 years .....	3,655	3,788	3,505	3,628	3,409	3,510	95	118	2.7	3.2

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

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

## A-68. Employment status of male Vietnam-Era veterans and nonveterans 25 to 39 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>	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>Total, 25 to 39 years:</b>												
Civilian noninstitutional population .....	6,333	6,444	665	745	261	248	12,129	12,999	1,882	1,925	966	1,056
Civilian labor force .....	6,117	6,224	625	701	247	230	11,660	12,496	1,697	1,735	924	1,000
Employed .....	5,915	6,036	575	650	234	220	11,293	12,058	1,583	1,598	877	943
Unemployed .....	202	188	50	51	13	10	367	438	114	137	47	57
Unemployment rate .....	3.3	3.0	8.0	7.3	5.3	4.3	3.1	3.5	6.7	7.9	5.1	5.9
<b>25 to 29 years</b>												
Civilian noninstitutional population .....	1,942	1,604	233	252	113	81	5,537	6,023	800	811	399	438
Civilian labor force .....	1,857	1,508	219	239	106	73	5,305	5,774	700	713	390	416
Employed .....	1,769	1,441	189	217	97	70	5,098	5,538	639	654	371	397
Unemployed .....	88	67	30	22	9	3	207	236	61	59	19	19
Unemployment rate .....	4.7	4.4	13.7	9.2	8.5	4.1	7.0	4.1	8.7	8.3	4.9	4.6
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	3,215	3,309	309	324	111	108	3,454	3,694	565	608	293	332
Civilian labor force .....	3,115	3,231	290	305	107	103	3,325	3,560	523	556	274	317
Employed .....	3,029	3,155	277	283	104	100	3,243	3,443	487	511	262	297
Unemployed .....	86	76	13	22	3	3	82	117	36	45	12	20
Unemployment rate .....	2.8	2.4	4.5	7.2	2.8	2.9	2.5	3.3	6.9	8.1	4.4	6.3
<b>35 to 39 years</b>												
Civilian noninstitutional population .....	1,176	1,531	123	169	37	59	3,138	3,282	517	506	274	286
Civilian labor force .....	1,145	1,485	116	157	34	54	3,030	3,162	474	466	260	267
Employed .....	1,117	1,440	109	150	33	50	2,952	3,077	457	433	244	249
Unemployed .....	28	45	7	7	1	4	78	85	17	33	16	18
Unemployment rate .....	2.4	3.0	6.0	4.5	(3)	(3)	2.6	2.7	3.6	7.1	6.2	6.7

<sup>1</sup> See footnote 1, table A-67.

<sup>2</sup> See footnote 2, table A-59.

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

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-69. 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	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>Total</b>												
Civilian noninstitutional population	108,490	110,482	45,733	46,000	62,757	64,481	51,431	52,109	4,795	4,582	46,636	47,527
Civilian labor force	69,950	71,751	28,556	28,957	41,394	42,795	31,665	32,096	3,004	2,884	28,661	29,212
Percent of population	64.5	64.9	62.4	63.0	66.0	66.4	61.6	61.6	62.6	62.9	61.5	61.5
Employed	66,065	67,752	26,602	26,987	39,463	40,767	29,945	30,297	2,939	2,823	27,006	27,474
Unemployed	3,884	3,999	1,955	1,971	1,929	2,028	1,721	1,799	65	61	1,656	1,738
Unemployment rate	5.6	5.6	6.8	6.8	4.7	5.4	5.6	2.2	2.2	2.1	5.8	5.9
Not in labor force	38,541	38,730	17,177	17,044	21,364	21,687	19,766	20,013	1,791	1,698	17,962	18,315
<b>Males, 20 years and over</b>												
Civilian noninstitutional population	45,652	46,577	18,819	18,960	26,833	27,618	21,837	22,236	2,157	2,098	19,680	20,138
Civilian labor force	36,908	37,501	14,656	14,747	22,252	22,754	16,974	17,234	1,785	1,721	15,189	15,513
Percent of population	80.8	80.5	77.9	77.8	82.9	82.4	77.7	77.5	82.7	82.0	77.2	77.0
Employed	35,497	35,985	13,893	13,952	21,604	22,033	16,355	16,560	1,760	1,700	14,595	14,860
Unemployed	1,411	1,516	764	796	647	720	619	674	25	22	594	652
Unemployment rate	3.8	4.0	5.2	5.4	2.9	3.2	3.6	3.9	1.4	1.3	3.9	4.2
Not in labor force	8,744	9,076	4,162	4,212	4,582	4,864	4,863	5,002	372	377	4,491	4,625
<b>Females, 20 years and over</b>												
Civilian noninstitutional population	51,768	52,912	22,544	22,670	29,224	30,242	24,235	24,513	2,034	1,966	22,201	22,547
Civilian labor force	26,764	28,046	11,621	11,956	15,143	16,090	11,756	11,947	912	891	10,844	11,056
Percent of population	51.7	53.0	51.5	52.7	51.8	53.2	48.5	48.7	44.8	45.3	48.8	49.0
Employed	25,308	26,510	10,890	11,220	14,418	15,290	11,089	11,302	891	873	10,198	10,429
Unemployed	1,456	1,535	731	737	725	800	667	645	20	18	647	627
Unemployment rate	5.4	5.5	6.3	6.2	4.8	5.0	5.7	5.4	2.2	2.1	6.0	5.7
Not in labor force	25,004	24,867	10,922	10,714	14,082	14,152	12,479	12,566	1,122	1,075	11,357	11,491
<b>Both sexes, 16-19 years</b>												
Civilian noninstitutional population	11,070	10,992	4,370	4,372	6,700	6,622	5,359	5,360	604	517	4,755	4,843
Civilian labor force	6,278	6,205	2,278	2,253	4,000	3,951	2,935	2,914	307	271	2,628	2,643
Percent of population	56.7	56.4	52.1	51.5	59.7	59.7	54.8	54.4	50.9	52.4	55.3	54.6
Employed	5,261	5,257	1,819	1,815	3,442	3,442	2,500	2,435	288	251	2,212	2,184
Unemployed	1,017	948	459	438	558	510	435	479	19	21	416	458
Unemployment rate	16.2	15.3	20.1	19.4	14.0	12.9	14.8	16.5	6.2	7.6	15.8	17.3
Not in labor force	4,792	4,787	2,093	2,117	2,699	2,670	2,424	2,445	297	246	2,127	2,199
<b>White</b>												
Civilian noninstitutional population	93,652	94,892	35,059	35,054	58,593	59,837	46,685	47,576	4,476	4,324	42,209	43,252
Civilian labor force	60,611	61,933	22,008	22,289	38,603	39,645	28,907	29,498	2,840	2,755	26,067	26,743
Percent of population	64.7	65.3	62.8	63.6	65.9	66.3	61.9	62.0	63.4	63.7	61.8	61.8
Employed	57,756	58,978	20,859	21,137	36,897	37,841	27,474	27,980	2,788	2,706	24,686	25,274
Unemployed	2,854	2,955	1,149	1,151	1,705	1,804	1,432	1,518	52	50	1,380	1,468
Unemployment rate	4.7	4.8	5.2	5.2	4.4	4.6	5.0	5.1	1.8	1.8	5.3	5.5
Not in labor force	33,041	32,958	13,050	12,766	19,991	20,193	17,778	18,078	1,636	1,568	16,142	16,510
<b>Black and other</b>												
Civilian noninstitutional population	14,839	15,590	10,674	10,947	4,165	4,644	4,747	4,533	319	258	4,428	4,275
Civilian labor force	9,339	9,818	6,548	6,669	2,791	3,150	2,759	2,597	164	128	2,595	2,469
Percent of population	62.9	63.0	61.3	60.9	67.0	67.8	58.1	57.3	51.5	49.7	58.6	57.8
Employed	8,309	8,774	5,743	5,849	2,566	2,925	2,471	2,317	151	117	2,320	2,200
Unemployed	1,030	1,044	806	820	224	224	288	280	13	11	275	269
Unemployment rate	11.0	10.6	12.3	12.3	8.0	7.1	10.4	10.8	7.7	8.5	10.6	10.9
Not in labor force	5,500	5,772	4,126	4,278	1,374	1,494	1,988	1,936	155	130	1,833	1,806

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-70. 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	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>Total</b>												
Civilian noninstitutional population	28,836	28,918	131,086	133,673	11,039	10,924	97,451	99,558	17,796	17,994	33,635	34,115
Civilian labor force	16,247	16,327	85,368	87,520	6,063	6,007	63,887	65,744	10,184	10,320	21,482	21,776
Percent of population	56.3	56.5	65.1	65.5	54.9	55.0	65.6	66.0	57.2	57.4	63.9	63.8
Employed	14,907	15,052	81,103	82,998	5,360	5,349	60,706	62,403	9,548	9,702	20,397	20,594
Unemployed	1,339	1,276	4,265	4,522	703	658	3,181	3,341	636	618	1,085	1,181
Unemployment rate	8.2	7.8	5.0	5.2	11.6	11.0	5.0	5.1	6.2	6.0	5.0	5.4
Not in labor force	12,589	12,591	45,717	46,153	4,976	4,916	33,564	33,814	7,613	7,674	12,153	12,339
<b>White</b>												
Civilian noninstitutional population	20,354	20,519	119,983	121,949	5,691	5,493	87,961	89,399	14,662	15,026	32,022	32,550
Civilian labor force	11,678	11,825	77,839	79,606	3,177	3,096	57,433	58,837	8,501	8,729	20,406	20,769
Percent of population	57.4	57.6	64.9	65.3	55.8	56.4	65.3	65.8	58.0	58.1	63.7	63.8
Employed	10,976	11,138	74,255	75,821	2,921	2,842	54,835	56,137	8,054	8,296	19,420	19,684
Unemployed	703	688	3,584	3,786	256	255	2,598	2,700	447	433	986	1,085
Unemployment rate	6.0	5.8	4.6	4.8	8.1	8.2	4.5	4.6	5.3	5.0	4.8	5.2
Not in labor force	8,675	8,693	42,144	42,342	2,514	2,397	30,527	30,562	6,162	6,297	11,617	11,781
<b>Black and other</b>												
Civilian noninstitutional population	8,482	8,399	11,103	11,724	5,348	5,431	9,490	10,160	3,134	2,969	1,613	1,565
Civilian labor force	4,568	4,502	7,530	7,913	2,886	2,911	6,453	6,907	1,683	1,591	1,076	1,006
Percent of population	53.9	53.6	67.8	67.5	54.0	53.6	68.0	68.0	53.7	53.6	66.7	64.3
Employed	3,931	3,914	6,848	7,177	2,438	2,508	5,871	6,266	1,493	1,406	978	910
Unemployed	637	588	681	737	447	403	583	641	190	185	99	96
Unemployment rate	13.9	13.1	9.0	9.3	15.5	13.8	9.0	9.3	11.3	11.6	9.2	9.5
Not in labor force	3,914	3,897	3,574	3,811	2,463	2,520	3,037	3,253	1,451	1,377	537	558

## A-71. 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	
	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979	IV 1978	IV 1979
<b>Total</b>												
Both sexes, 16 years and over	8.2	7.8	5.0	5.2	11.6	11.0	5.0	5.1	6.2	6.0	5.0	5.4
Males, 20 years and over	6.0	5.4	3.3	3.7	9.0	7.8	3.3	3.7	4.4	4.1	3.3	3.8
Females, 20 years and over	8.3	7.6	5.0	5.1	10.6	10.3	4.9	5.0	6.8	5.9	5.1	5.2
Both sexes, 16-19 years	21.2	23.2	14.7	14.3	31.1	32.2	14.8	13.7	15.4	17.9	14.6	15.8
<b>White</b>												
Both sexes, 16 years and over	6.0	5.8	4.6	4.8	8.1	8.2	4.5	4.6	5.3	5.0	4.8	5.2
Males, 20 years and over	4.6	3.9	3.1	3.4	6.5	5.4	3.0	3.3	3.9	3.4	3.1	3.7
Females, 20 years and over	6.2	6.0	4.6	4.7	7.6	8.8	4.5	4.6	5.6	5.0	5.0	4.9
Both sexes, 16-19 years	14.5	17.3	13.4	13.1	20.5	23.3	13.4	12.3	12.4	15.1	13.5	15.3
<b>Black and other</b>												
Both sexes, 16 years and over	13.9	13.1	9.0	9.3	15.5	13.8	9.0	9.3	11.3	11.6	9.2	9.5
Males, 20 years and over	10.2	10.0	6.6	7.3	12.1	10.8	6.6	7.5	7.0	8.6	6.7	5.7
Females, 20 years and over	13.1	11.2	7.9	8.4	13.5	11.5	8.2	8.2	12.3	10.6	6.5	10.1
Both sexes, 16-19 years	36.8	37.8	32.0	29.6	41.3	41.9	31.2	30.0	29.2	31.1	35.7	27.5

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-72. Unemployed persons by family relationship and presence of employed family members

(Numbers in thousands)

Family relationship	IV 1978				IV 1979			
	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 em- ployed full time		With no employed person in family	With at least one employed person in family	With at least one person in family em- ployed full time
<b>TOTAL</b>								
Unemployed, total .....	5,605	38.0	62.0	56.3	5,798	39.0	61.0	54.7
Unemployed, in families <sup>1</sup> .....	4,775	27.2	72.8	66.1	4,950	28.5	71.5	64.1
Husbands <sup>2</sup> .....	963	48.5	51.5	39.1	1,096	48.5	51.5	40.1
Wives .....	1,206	10.7	89.3	83.9	1,159	12.8	87.2	82.0
Relatives in husband-wife families .....	1,548	11.0	89.0	85.3	1,566	10.2	89.8	84.7
Women who head families .....	379	79.7	20.3	13.7	430	82.3	17.7	12.6
Relatives of female heads .....	679	33.9	66.1	58.0	699	31.3	68.7	57.7
Unemployed, not in families <sup>3</sup> .....	830	--	--	--	848	--	--	--
<b>White</b>								
Unemployed, total .....	4,287	35.9	64.1	58.5	4,473	37.3	62.7	56.7
Unemployed, in families <sup>1</sup> .....	3,638	24.5	75.5	68.9	3,793	26.1	73.9	66.9
Husbands <sup>2</sup> .....	801	48.8	51.2	38.8	906	48.5	51.5	39.6
Wives .....	1,019	10.2	89.8	84.6	986	12.8	87.2	81.9
Relatives in husband-wife families .....	1,217	9.8	90.2	87.0	1,286	10.1	89.9	85.7
Women who head families .....	218	75.2	24.8	17.0	247	77.7	22.3	16.2
Relatives of female heads .....	383	29.2	70.8	61.9	386	26.9	73.1	62.7
Unemployed, not in families <sup>3</sup> .....	649	--	--	--	680	--	--	--
<b>Black <sup>4</sup></b>								
Unemployed, total .....	1,195	45.1	54.9	48.4	1,199	45.2	54.8	47.2
Unemployed, in families <sup>1</sup> .....	1,037	36.7	63.3	55.7	1,047	37.2	62.8	54.1
Husbands <sup>2</sup> .....	141	46.8	53.2	39.0	163	47.9	52.1	42.9
Wives .....	166	13.3	86.7	80.1	145	12.4	87.6	81.4
Relatives in husband-wife families .....	295	16.3	83.7	77.6	269	10.8	89.2	79.2
Women who head families .....	156	85.3	14.7	9.6	173	88.4	11.6	8.1
Relatives of female heads .....	279	40.1	59.9	52.3	297	37.7	62.3	50.8
Unemployed, not in families <sup>3</sup> .....	157	--	--	--	152	--	--	--

<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-73. Employed persons by family relationship and presence of additional employed family members

(Numbers in thousands)

Family relationship	IV 1978				IV 1979			
	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 .....	96,010	37.2	62.8	53.7	98,049	37.2	62.8	53.6
Employed, in families <sup>1</sup> .....	82,485	26.9	73.1	62.5	86,657	26.4	73.6	62.8
Husbands <sup>2</sup> .....	39,859	39.2	60.8	44.2	39,940	38.3	61.7	44.9
Wives .....	22,487	7.9	92.1	88.1	23,207	8.5	91.5	87.2
Relatives in husband-wife families .....	12,290	6.5	93.5	90.2	12,302	6.4	93.6	90.0
Women who head families .....	4,523	67.3	32.7	21.6	4,698	65.9	34.1	23.7
Relatives of female heads .....	3,335	27.3	72.7	61.9	3,510	27.5	72.5	62.1
Employed, not in families <sup>3</sup> .....	13,525	--	--	--	14,392	--	--	--
<b>White</b>								
Employed, total .....	85,230	36.7	63.3	53.9	86,958	36.7	63.3	53.8
Employed, in families <sup>1</sup> .....	73,468	26.5	73.5	62.6	74,422	26.0	74.0	62.9
Husbands <sup>2</sup> .....	36,309	39.7	60.3	43.2	36,400	38.7	61.3	43.9
Wives .....	20,193	7.5	92.5	88.6	20,825	8.0	92.0	87.6
Relatives in husband-wife families .....	11,102	6.4	93.6	90.6	11,081	6.2	93.8	90.4
Women who head families .....	3,352	65.0	35.0	22.7	3,422	63.3	36.7	25.0
Relatives of female heads .....	2,512	26.5	73.5	63.0	2,694	27.3	72.7	62.7
Employed, not in families <sup>3</sup> .....	11,762	--	--	--	12,536	--	--	--
<b>Black<sup>4</sup></b>								
Employed, total .....	9,113	42.3	57.7	50.8	9,310	42.7	57.3	50.5
Employed, in families <sup>1</sup> .....	7,628	31.1	68.9	60.6	7,757	31.3	68.7	60.6
Husbands <sup>2</sup> .....	2,942	34.9	65.1	54.7	2,924	33.6	66.4	55.6
Wives .....	1,882	11.6	88.4	83.0	1,937	13.0	87.0	82.6
Relatives in husband-wife families .....	940	8.8	91.2	85.1	95.0	9.6	90.4	83.9
Women who head families .....	1,096	74.2	25.8	18.7	1,194	74.0	26.0	19.7
Relatives of female heads .....	768	29.7	70.3	58.5	752	29.0	71.0	58.9
Employed, not in families <sup>3</sup> .....	1,485	--	--	--	1,554	--	--	--

<sup>1</sup> See footnote 1, table A-72.

<sup>2</sup> See footnote 2, table A-72.

<sup>3</sup> See footnote 3, table A-72.

<sup>4</sup> See footnote 4, table A-72.



# ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

B-1. Employees on nonagricultural payrolls by industry division, 1920 to date

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1920.....	27,340	12,760	1,239	863	10,658	14,605	3,998	4,467	-	-	1,160	2,352	2,603	-	-
1925.....	28,766	12,489	1,089	1,461	9,939	16,304	3,826	5,576	-	-	1,218	2,857	2,800	-	-
1926.....	29,806	12,911	1,185	1,570	10,156	16,923	3,942	5,784	-	-	1,290	3,033	2,846	-	-
1927.....	29,962	12,738	1,114	1,623	10,001	17,253	3,895	5,908	-	-	1,352	3,154	2,915	-	-
1928.....	29,986	12,618	1,050	1,621	9,947	17,397	3,828	5,874	-	-	1,420	3,251	2,995	-	-
1929.....	31,324	13,301	1,087	1,512	10,702	18,053	3,916	6,123	-	-	1,494	3,425	3,065	533	2,532
1930.....	29,409	11,958	1,009	1,387	9,562	17,481	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931.....	26,635	10,272	873	1,229	8,170	16,392	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932.....	23,615	8,647	731	985	6,931	14,996	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933.....	23,699	8,965	744	824	7,397	14,761	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934.....	25,940	10,261	883	877	8,501	15,707	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935.....	27,039	10,893	897	927	9,069	16,175	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936.....	29,068	11,933	946	1,160	9,827	17,164	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937.....	31,011	12,936	1,015	1,127	10,794	18,105	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938.....	29,194	11,401	891	1,070	9,440	17,823	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939.....	30,603	12,297	854	1,165	10,278	16,544	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940.....	32,361	13,221	925	1,311	10,985	17,304	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941.....	36,535	15,963	957	1,814	13,192	18,615	3,274	7,210	1,960	5,251	1,525	3,905	4,660	1,340	3,320
1942.....	40,106	18,470	992	2,198	15,280	19,730	3,460	7,118	1,906	5,212	1,505	4,066	5,483	2,213	3,270
1943.....	42,434	20,114	925	1,587	17,602	20,498	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,175
1944.....	41,864	19,328	892	1,108	17,328	20,692	3,829	7,058	1,845	5,214	1,461	4,145	6,043	2,928	3,116
1945.....	40,374	17,507	836	1,147	15,524	20,920	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946.....	41,652	17,248	862	1,683	14,703	22,112	4,061	8,376	2,291	6,084	1,675	4,697	5,595	2,254	3,341
1947.....	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,485	1,728	5,025	5,474	1,892	3,582
1948.....	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949.....	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950.....	45,197	18,506	901	2,364	15,241	26,690	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951.....	47,819	19,959	929	2,637	16,393	27,861	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952.....	48,755	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953.....	50,202	21,074	866	2,659	17,549	29,127	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954.....	48,990	19,751	791	2,646	16,314	29,238	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727
1956.....	52,369	21,104	822	3,039	17,243	31,264	4,244	10,858	3,018	7,840	2,389	6,497	7,278	2,209	5,069
1957.....	52,853	20,964	828	2,962	17,174	31,888	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958.....	51,324	19,513	751	2,817	15,945	31,810	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959.....	53,268	20,411	732	3,004	16,675	32,858	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960.....	54,185	20,434	712	2,926	16,796	33,756	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,652	20,640	635	3,010	16,995	36,014	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,277	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,838	4,036	12,715	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,744	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,496	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,158	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969.....	70,384	24,362	619	3,575	20,167	46,022	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,750	9,437
1970.....	70,880	23,577	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971.....	71,214	22,935	609	3,704	18,623	48,276	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972.....	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973.....	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974.....	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975.....	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976.....	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977.....	82,423	24,346	813	3,851	19,682	58,077	4,713	18,516	4,708	13,808	4,467	15,303	15,079	2,727	12,352
1978.....	86,446	25,597	851	4,271	20,476	60,849	4,927	19,499	4,957	14,542	4,727	16,220	15,476	2,753	12,723
1979 P.....	89,497	26,579	958	4,642	20,979	62,918	5,154	20,140	5,173	14,968	4,964	17,047	15,613	2,773	12,840
1978:															
DEC.....	88,893	26,220	916	4,402	20,902	62,673	5,084	20,523	5,092	15,431	4,832	16,547	15,687	2,733	12,954
1979:															
JAN.....	87,128	25,671	910	3,998	20,763	61,457	5,010	19,765	5,066	14,699	4,829	16,353	15,500	2,730	12,770
FEB.....	87,331	25,647	915	3,957	20,775	61,684	5,028	19,548	5,067	14,481	4,845	16,545	15,718	2,738	12,980
MAR.....	88,207	26,039	926	4,226	20,887	62,168	5,060	19,690	5,098	14,592	4,870	16,749	15,799	2,740	13,059
APR.....	88,820	26,252	932	4,413	20,907	62,568	4,989	19,957	5,112	14,845	4,900	16,897	15,825	2,750	13,075
MAY.....	89,671	26,594	944	4,662	20,988	63,077	5,125	20,119	5,146	14,973	4,936	17,039	15,858	2,773	13,085
JUN.....	90,541	27,083	968	4,881	21,234	63,458	5,231	20,222	5,211	15,011	5,003	17,239	15,763	2,824	12,939
JUL.....	89,618	26,934	976	4,993	20,965	62,684	5,200	20,118	5,208	14,910	5,032	17,314	15,020	2,838	12,182
AUG.....	89,673	27,030	986	5,048	20,996	62,643	5,210	20,137	5,211	14,926	5,053	17,312	14,931	2,844	12,067
SEPT.....	90,211	27,156	980	4,984	21,192	63,055	5,242	20,260	5,206	15,054	5,002	17,225	15,326	2,751	12,575
OCT.....	90,678	27,052	982	4,976	21,094	63,626	5,244	20,314	5,235	15,079	5,013	17,292	15,763	2,756	13,007
NOV. P.....	90,908	26,836	985	4,877	20,974	64,072	5,253	20,575	5,249	15,326	5,031	17,297	15,916	2,760	13,156
DEC. P.....	91,179	26,655	992	4,688	20,975	64,524	5,255	20,978	5,262	15,716	5,055	17,298	15,938	2,770	13,168

<sup>1</sup> Data include Alaska and Hawaii beginning 1960. This inclusion has resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1969 benchmark month.

p = preliminary.  
c = corrected.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. p 1979	Dec. p 1979	Nov. 1978	Dec. 1978	Oct. 1979	Nov. p 1979	Dec. p 1979
-	<b>TOTAL</b> .....	88,622	88,893	90,678	90,908	91,179	-	-	-	-	-
-	<b>PRIVATE SECTOR</b> .....	72,919	73,206	74,915	74,992	75,241	59,773	60,021	61,250	61,291	61,540
-	<b>MINING</b> .....	920	916	982	985	992	697	692	735	736	740
10	<b>METAL MINING</b> .....	93.3	93.5	99.3	100.3	-	72.0	72.0	76.2	76.9	-
101	Iron ores .....	25.1	24.8	24.9	25.0	-	20.4	20.0	19.9	20.0	-
102	Copper ores .....	28.9	29.3	33.1	33.6	-	22.2	22.5	25.7	26.1	-
11, 12	<b>COAL MINING</b> .....	258.5	255.8	259.2	261.7	-	216.9	215.2	215.9	218.0	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	255.5	252.8	256.2	258.6	-	214.3	212.5	213.2	215.3	-
13	<b>OIL AND GAS EXTRACTION</b> .....	445.2	447.0	494.2	495.7	-	308.9	310.1	339.1	339.7	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	188.4	189.2	205.0	206.4	-	91.0	91.5	94.9	95.1	-
138	Oil and gas field services .....	256.8	257.8	289.2	289.3	-	217.9	218.6	244.2	244.6	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	123.4	119.2	129.5	127.3	-	98.7	94.7	103.3	101.2	-
142	Crushed and broken stone .....	41.2	39.1	42.8	42.1	-	34.7	32.7	36.2	35.3	-
144	Sand and gravel .....	38.4	36.2	41.2	39.9	-	-	-	-	-	-
147	Chemical and fertilizer minerals .....	24.0	24.1	24.6	24.9	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	4,584	4,402	4,976	4,877	4,688	3,691	3,510	4,021	3,916	3,736
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,329.7	1,275.5	1,384.8	1,359.1	-	1,050.9	995.4	1,084.2	1,057.2	-
152	Residential building construction .....	709.4	680.8	710.6	694.2	-	553.8	524.1	540.0	523.2	-
153	Operative builders .....	83.8	82.8	87.2	85.8	-	55.5	54.2	55.9	54.4	-
154	Nonresidential building construction .....	536.5	511.9	587.0	579.1	-	441.6	417.1	488.3	479.6	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	910.7	831.9	991.8	942.6	-	751.7	676.4	832.2	782.4	-
161	Highway and street construction .....	288.9	237.7	341.7	311.0	-	250.0	199.4	299.1	269.0	-
162	Heavy construction, except highway .....	621.8	594.2	650.1	631.6	-	501.7	477.0	533.1	513.4	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	2,343.3	2,294.4	2,599.1	2,575.4	-	1,888.7	1,837.9	2,104.3	2,076.6	-
171	Plumbing, heating, air conditioning .....	543.5	540.4	566.0	566.7	-	418.7	416.0	434.8	434.1	-
172	Painting, paper hanging, decorating .....	152.1	144.2	174.3	168.5	-	129.4	120.9	148.4	141.2	-
173	Electrical work .....	396.6	394.6	430.5	431.5	-	312.8	310.6	340.3	340.5	-
174	Masonry, stonework, and plastering .....	382.1	379.1	443.1	442.5	-	333.5	330.1	387.9	386.9	-
175	Carpentering and flooring .....	148.5	148.4	156.4	152.8	-	117.0	116.0	122.4	117.8	-
176	Roofing and sheet metal work .....	173.3	165.5	196.0	194.0	-	143.4	135.1	161.1	159.1	-
-	<b>MANUFACTURING</b> .....	20,903	20,902	21,094	20,974	20,975	15,058	15,047	15,082	14,961	14,969
24, 25, 32-39	<b>DURABLE GOODS</b> .....	12,583	12,616	12,737	12,669	12,694	9,057	9,081	9,058	8,991	9,019
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	8,320	8,286	8,357	8,305	8,281	6,001	5,966	6,024	5,970	5,950
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	757.2	753.9	771.3	749.9	731.4	646.1	642.9	659.3	637.1	617.9
241	Logging camps and logging contractors .....	87.8	86.5	95.6	91.9	-	72.0	70.7	80.9	77.2	-
242	Sawmills and planing mills .....	230.3	229.6	233.9	228.8	-	205.5	204.9	209.3	204.0	-
2421	Sawmills and planing mills, general .....	189.9	189.2	193.5	188.4	-	169.9	169.3	173.6	168.6	-
2426	Hardwood dimension and flooring .....	33.3	33.4	32.4	32.2	-	29.3	29.4	28.4	28.0	-
243	Millwork, plywood, and structural members .....	225.5	226.2	226.5	219.7	-	189.9	190.7	190.2	182.9	-
2431	Millwork .....	79.3	80.3	78.4	76.3	-	65.2	66.0	63.8	61.7	-
2434	Wood kitchen cabinets .....	50.2	50.3	51.6	50.3	-	41.4	41.8	44.0	42.4	-
2435	Hardwood veneer and plywood .....	27.7	27.8	27.3	27.2	-	24.8	24.9	24.3	24.1	-
2436	Softwood veneer and plywood .....	49.9	49.9	50.2	48.8	-	43.7	43.8	43.6	42.1	-
244	Wooden containers .....	43.5	43.3	42.6	41.3	-	38.4	38.0	37.5	36.1	-
245	Wood buildings and mobile homes .....	85.1	83.3	85.9	81.8	-	68.6	66.9	68.6	64.5	-
2451	Mobile homes .....	58.1	57.2	59.8	56.7	-	49.0	48.1	49.4	46.2	-
249	Miscellaneous wood products .....	85.0	85.0	86.8	86.4	-	71.7	71.7	72.8	72.4	-
25	<b>FURNITURE AND FIXTURES</b> .....	498.0	498.4	487.6	488.3	488.1	409.6	409.7	398.7	399.3	398.9
251	Household furniture .....	333.4	332.9	322.2	323.0	-	283.8	283.4	273.3	274.2	-
2511	Wood household furniture .....	146.8	147.1	143.5	144.0	-	130.1	130.5	127.2	127.6	-
2512	Upholstered household furniture .....	103.8	103.3	99.5	99.0	-	86.0	85.4	82.0	81.9	-
2514	Metal household furniture .....	32.8	33.2	30.3	32.2	-	26.6	26.9	24.4	26.0	-
2515	Mattresses and bedsprings .....	32.4	32.1	32.5	32.0	-	25.3	25.0	25.4	24.9	-
252	Office furniture .....	48.1	48.2	47.0	47.4	-	39.0	39.0	37.4	37.8	-
253	Public building and related furniture .....	26.0	26.2	25.4	25.3	-	19.8	20.0	19.1	19.1	-
254	Partitions and fixtures .....	63.5	63.7	66.1	65.7	-	48.3	48.4	50.1	49.7	-
259	Miscellaneous furniture and fixtures .....	27.0	27.4	26.9	26.9	-	18.7	18.9	18.8	18.5	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	712.9	703.6	721.0	713.0	700.4	566.6	557.2	568.3	561.4	549.5
321	Flat glass	19.4	19.3	20.3	19.7	-	15.0	14.9	15.8	15.2	-
322	Glass and glassware, pressed or blown	135.6	134.5	130.8	131.0	-	116.6	115.6	111.8	111.7	-
3221	Glass containers	75.6	74.7	71.7	70.9	-	66.7	65.7	63.0	62.1	-
3229	Pressed and blown glass, nec	60.0	59.8	59.1	60.1	-	49.9	49.9	48.8	49.6	-
323	Products of purchased glass	49.2	49.0	50.1	49.8	-	35.8	35.5	36.8	36.7	-
324	Cement, hydraulic	32.7	32.4	33.5	33.6	-	26.2	26.1	26.7	26.8	-
325	Structural clay products	51.1	51.2	49.6	49.5	-	40.5	40.4	38.1	38.3	-
326	Pottery and related products	47.2	46.4	47.4	47.6	-	39.7	39.1	40.0	40.1	-
327	Concrete, gypsum, and plaster products	218.6	211.0	226.6	221.0	-	172.4	164.9	177.4	172.6	-
3271	Concrete block and brick	25.5	24.8	25.6	25.1	-	18.2	17.4	18.3	17.8	-
3272	Concrete products, nec	74.0	72.4	74.1	71.6	-	58.3	56.5	57.1	55.0	-
3273	Ready-mixed concrete	97.6	92.4	104.8	102.2	-	78.3	73.4	83.9	81.6	-
329	Misc. nonmetallic mineral products	146.2	146.9	149.4	147.8	-	110.0	110.3	110.9	109.6	-
3291	Abrasive products	28.9	29.3	29.5	29.6	-	19.8	20.1	20.3	20.3	-
3292	Asbestos products	23.1	23.1	21.8	21.2	-	17.8	18.1	16.8	16.5	-
3296	Mineral wool	31.1	31.1	32.6	32.0	-	-	-	-	-	-
33	<b>PRIMARY METAL INDUSTRIES</b>	1,236.1	1,243.0	1,225.1	1,217.2	1,218.5	975.9	982.0	959.4	951.5	952.5
331	Blast furnace and basic steel products	564.4	565.6	555.4	548.8	-	447.6	448.1	437.1	430.6	-
3312	Blast furnaces and steel mills	475.5	476.0	466.1	461.0	-	378.7	378.4	367.8	362.8	-
3317	Steel pipe and tubes	31.2	31.5	31.1	30.8	-	24.5	24.9	24.4	24.1	-
332	Iron and steel foundries	244.2	245.9	227.5	225.5	-	200.5	202.2	184.4	182.9	-
3321	Gray iron foundries	154.2	155.3	137.5	135.4	-	128.9	130.0	113.1	111.5	-
3322	Malleable iron foundries	23.1	22.7	19.0	19.8	-	18.9	18.5	15.0	15.5	-
3326	Steel foundries, nec	54.1	54.7	56.1	55.4	-	43.5	44.1	44.7	44.4	-
333	Primary nonferrous metals	70.8	71.1	72.9	73.0	-	55.4	55.5	56.4	56.4	-
3334	Primary aluminum	36.1	36.2	37.3	37.2	-	29.3	29.4	29.8	29.6	-
335	Nonferrous rolling and drawing	215.3	216.0	221.0	222.0	-	158.2	159.2	162.6	163.3	-
3351	Copper rolling and drawing	33.8	33.1	33.4	33.6	-	26.4	26.3	25.7	25.8	-
3353	Aluminum sheet, plate, and foil	35.1	35.3	35.7	35.6	-	26.5	26.7	27.2	27.2	-
3357	Nonferrous wire drawing and insulating	86.1	87.4	90.6	91.1	-	64.2	65.2	67.0	67.5	-
336	Nonferrous foundries	95.9	97.9	97.6	96.7	-	79.5	81.4	79.7	78.9	-
3361	Aluminum foundries	54.3	55.7	55.5	55.3	-	45.6	47.0	46.1	46.0	-
34	<b>FABRICATED METAL PRODUCTS</b>	1,717.9	1,723.6	1,738.3	1,737.4	1,731.6	1,307.4	1,310.9	1,312.0	1,311.3	1,304.8
341	Metal cans and shipping containers	78.5	76.7	76.9	76.9	-	66.1	64.3	64.6	64.6	-
3411	Metal cans	64.8	63.0	62.4	62.4	-	54.9	53.1	52.7	52.8	-
342	Cutlery, hand tools, and hardware	187.1	187.2	183.2	184.4	-	145.9	146.1	142.1	143.3	-
3423.5	Hand and edge tools, and hand saws and blades	64.9	65.1	64.6	65.0	-	50.9	51.3	50.7	50.9	-
3429	Hardware, nec	105.7	105.6	102.4	103.0	-	82.9	82.8	79.6	80.5	-
343	Plumbing and heating, except electric	76.2	76.7	77.3	78.0	-	57.1	57.4	57.5	58.4	-
3432	Plumbing fittings and brass goods	28.6	28.5	29.1	29.1	-	23.4	23.3	23.9	24.0	-
3433	Heating equipment, except electric	36.0	36.7	37.1	37.3	-	25.1	25.6	26.0	26.2	-
344	Fabricated structural metal products	519.0	518.7	532.2	531.5	-	369.1	368.2	376.3	375.8	-
3441	Fabricated structural metal	102.3	103.0	108.8	109.6	-	74.1	74.5	78.3	79.4	-
3442	Metal doors, sash, and trim	89.2	87.4	90.9	90.1	-	67.4	65.6	68.6	67.9	-
3443	Fabricated plate work (boiler shops)	148.6	149.7	148.5	148.7	-	97.1	98.1	96.5	95.9	-
3444	Sheet metal work	107.2	107.1	111.3	111.1	-	79.9	79.6	82.4	82.7	-
3446	Architectural metal work	31.5	31.5	31.7	31.9	-	22.7	22.8	22.9	22.9	-
345	Screw machine products, bolts, etc.	114.2	115.9	121.2	122.0	-	89.9	91.1	95.0	95.7	-
3451	Screw machine products	54.2	55.2	58.0	58.4	-	44.8	45.7	47.9	48.0	-
3452	Bolts, nuts, rivets, and washers	60.0	60.7	63.2	63.6	-	45.1	45.4	47.1	47.7	-
346	Metal forgings and stampings	313.8	314.4	302.6	298.3	-	255.2	255.5	242.9	238.5	-
3462	Iron and steel forgings	54.3	54.8	56.2	55.3	-	43.5	43.9	44.2	43.1	-
3465	Automotive stampings	121.0	121.3	105.0	102.2	-	102.6	102.7	87.8	84.5	-
3469	Metal stampings, nec	127.2	126.9	130.1	129.2	-	100.3	100.0	102.1	101.8	-
347	Metal services, nec	106.7	107.1	109.6	110.0	-	87.8	88.3	89.3	89.7	-
3471	Plating and polishing	73.4	73.6	74.0	74.3	-	61.2	61.5	61.0	61.3	-
3479	Metal coating and allied services	33.3	33.5	35.6	35.7	-	26.6	26.8	28.3	28.4	-
348	Ordinance and accessories, nec	60.9	61.2	59.9	60.2	-	42.4	42.5	40.6	40.7	-
3483	Ammunition, exc. for small arms, nec	26.4	26.4	26.5	26.7	-	18.5	18.5	18.3	18.4	-
349	Misc. fabricated metal products	261.5	265.7	275.4	276.1	-	193.9	197.5	203.7	204.6	-
3494	Valves and pipe fittings	102.4	104.4	108.4	109.2	-	69.6	71.6	73.9	74.5	-
3496	Misc. fabricated wire products	55.5	55.8	58.3	58.8	-	42.8	43.1	45.2	45.8	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2,384.5	2,415.7	2,447.2	2,447.4	2,468.0	1,571.7	1,601.1	1,596.2	1,603.1	1,622.6
351	Engines and turbines	138.9	139.6	139.7	130.3	-	91.3	91.8	91.6	85.0	-
3511	Turbines and turbine generator sets	43.4	43.5	41.0	40.9	-	22.8	23.0	21.0	21.0	-
3519	Internal combustion engines, nec	95.5	96.1	98.7	89.4	-	68.5	68.8	70.6	64.0	-
352	Farm and garden machinery	165.9	174.5	156.6	174.4	-	117.3	125.9	107.0	125.1	-
3523	Farm machinery and equipment	146.8	154.6	137.8	153.6	-	104.0	111.7	93.8	110.3	-
353	Construction and related machinery	391.7	395.0	376.3	360.7	-	261.9	265.0	246.6	238.7	-
3531	Construction machinery	171.6	172.3	138.1	120.9	-	117.7	118.9	92.0	81.9	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

(in thousands)		All employees					Production workers <sup>1</sup>				
1972 SIC Code	Industry	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery.....	36.8	37.1	39.9	40.2	-	23.5	23.7	25.2	25.5	-
3533	Oil field machinery.....	81.1	81.6	87.0	87.9	-	56.1	56.6	59.1	60.1	-
3535	Conveyors and conveying equipment.....	34.3	35.4	37.2	37.4	-	20.2	21.0	21.1	21.4	-
3537	Industrial trucks and tractors.....	37.5	38.0	40.0	39.9	-	26.2	26.5	27.7	27.9	-
354	Metalworking machinery.....	353.7	357.6	374.0	375.2	-	257.8	260.9	272.0	272.8	-
3541	Machine tools, metal cutting types.....	73.7	74.4	80.9	81.6	-	47.3	47.9	52.0	52.3	-
3542	Machine tools, metal forming types.....	25.5	25.8	27.2	27.5	-	16.8	17.0	17.8	18.1	-
3544	Special dies, tools, jigs, and fixtures.....	131.5	132.9	135.7	134.9	-	105.6	106.9	108.4	107.8	-
3545	Machine tool accessories.....	64.2	65.0	68.4	69.0	-	45.6	46.2	48.4	48.9	-
3546	Power driven hand tools.....	34.6	35.0	36.8	37.3	-	26.0	26.3	28.4	28.9	-
355	Special industry machinery.....	202.9	204.4	210.8	212.5	-	127.7	129.1	132.3	133.8	-
3551	Food products machinery.....	46.4	46.8	48.5	48.7	-	28.8	29.1	30.4	30.6	-
3552	Textile machinery.....	26.6	26.8	27.2	27.5	-	18.8	18.9	19.2	19.5	-
3555	Printing trades machinery.....	40.1	40.6	43.1	44.2	-	24.0	24.6	26.3	26.8	-
356	General industrial machinery.....	319.7	324.4	330.8	332.0	-	213.3	217.4	220.0	220.9	-
3561	Pumps and pumping equipment.....	59.7	60.8	61.0	61.5	-	36.7	37.5	37.0	37.5	-
3562	Ball and roller bearings.....	58.4	59.6	60.7	61.3	-	45.3	46.4	48.4	49.0	-
3563	Air and gas compressors.....	31.3	31.6	30.8	31.0	-	18.1	18.5	18.0	18.2	-
3564	Blowers and fans.....	40.3	41.0	42.5	42.4	-	25.5	26.0	25.9	25.7	-
3566	Speed changers, drives, and gears.....	26.0	26.4	28.0	28.2	-	17.9	18.2	19.2	19.4	-
3568	Power transmission equipment, nec.....	24.5	24.6	24.6	24.4	-	17.9	18.1	17.8	17.7	-
357	Office and computing machines.....	358.8	361.4	393.9	398.0	-	165.3	167.0	180.1	181.4	-
3573	Electronic computing equipment.....	283.7	285.9	318.2	321.8	-	119.7	121.4	135.6	136.9	-
358	Refrigeration and service machinery.....	184.6	188.6	183.6	181.2	-	129.6	134.3	128.7	125.9	-
3585	Refrigeration and heating equipment.....	127.4	130.5	126.4	124.3	-	89.8	93.5	89.2	86.9	-
359	Misc. machinery, except electrical.....	268.3	270.2	281.5	283.1	-	207.5	209.7	217.9	219.5	-
3592	Carburetors, pistons, rings, valves.....	42.4	43.6	44.7	44.7	-	33.5	34.7	35.4	35.6	-
3599	Machinery, except electrical, nec.....	225.9	226.6	236.8	238.4	-	174.0	175.0	182.5	183.9	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT.....	2,057.2	2,062.4	2,143.7	2,145.8	2,163.8	1,356.2	1,359.3	1,396.9	1,394.2	1,405.8
361	Electric distributing equipment.....	122.6	122.9	121.1	122.0	-	88.0	88.7	85.5	86.4	-
3612	Transformers.....	55.8	55.9	55.7	56.1	-	39.7	40.0	39.4	39.8	-
3613	Switchgear and switchboard apparatus.....	66.8	67.0	65.4	65.9	-	48.3	48.7	46.1	46.6	-
362	Electrical industrial apparatus.....	253.3	254.3	259.5	259.5	-	182.3	183.8	185.4	184.5	-
3621	Motors and generators.....	138.3	137.9	136.2	135.4	-	104.6	104.5	102.3	101.8	-
3622	Industrial controls.....	67.6	68.6	72.6	73.1	-	43.7	44.9	46.4	45.8	-
363	Household appliances.....	178.3	174.9	180.0	179.0	-	140.1	135.9	142.8	142.6	-
3632	Household refrigerators and freezers.....	39.8	38.6	38.0	37.5	-	31.0	29.9	30.5	30.5	-
3633	Household laundry equipment.....	21.9	21.2	23.8	23.7	-	17.0	16.3	18.8	18.7	-
3634	Electric housewares and fans.....	54.6	52.7	53.7	54.0	-	43.9	41.3	43.1	43.5	-
364	Electric lighting and wiring equipment.....	226.0	226.4	230.1	228.3	-	172.6	172.5	173.3	171.6	-
3641	Electric lamps.....	38.5	38.7	38.5	37.8	-	33.9	33.9	34.1	33.5	-
3643	Current-carrying wiring devices.....	93.9	95.1	99.9	100.7	-	66.9	67.6	69.6	70.2	-
3644	Noncurrent-carrying wiring devices.....	22.6	22.6	22.2	21.9	-	16.6	16.6	16.1	15.9	-
3645	Residential lighting fixtures.....	26.9	27.4	28.1	27.2	-	20.9	21.2	22.0	21.3	-
365	Radio and TV receiving equipment.....	120.4	117.3	115.2	112.9	-	90.4	88.0	86.1	83.3	-
3651	Radio and TV receiving sets.....	94.3	92.9	91.3	91.9	-	69.5	68.7	66.4	66.5	-
366	Communication equipment.....	508.9	512.2	541.0	545.9	-	251.8	253.6	269.6	271.6	-
3661	Telephone and telegraph apparatus.....	153.8	154.2	164.5	165.5	-	106.4	106.6	115.9	116.8	-
3662	Radio and TV communication equipment.....	355.1	358.0	376.5	380.4	-	145.4	147.0	153.7	154.8	-
367	Electronic components and accessories.....	479.2	485.0	529.6	535.5	-	303.6	308.8	330.8	335.2	-
3671-3	Electronic tubes.....	42.1	41.9	44.9	45.7	-	27.6	27.3	28.5	28.6	-
3674	Semiconductors and related devices.....	178.6	181.4	200.8	203.1	-	85.8	87.8	92.4	94.2	-
3679	Electronic components, nec.....	189.2	192.2	208.9	210.9	-	134.2	137.3	149.0	150.8	-
369	Misc. electrical equipment and supplies.....	168.5	169.4	167.2	162.7	-	127.4	128.0	123.4	119.0	-
3691	Storage batteries.....	32.1	32.4	33.2	33.1	-	25.7	25.9	26.6	26.6	-
3694	Engine electrical equipment.....	80.0	80.6	73.7	68.8	-	63.6	64.1	56.4	51.9	-
37	TRANSPORTATION EQUIPMENT.....	2,073.4	2,087.6	2,040.9	2,011.8	2,046.4	1,446.4	1,459.3	1,388.4	1,360.4	1,405.4
371	Motor vehicles and equipment.....	1,043.2	1,047.3	953.3	913.4	-	820.8	825.2	730.0	692.3	-
3711	Motor vehicles and car bodies.....	481.1	480.6	432.3	405.5	-	362.1	363.0	315.8	290.7	-
3713	Truck and bus bodies.....	48.4	48.6	47.2	46.3	-	39.4	39.6	37.1	36.5	-
3714	Motor vehicle parts and accessories.....	479.8	483.9	440.7	428.6	-	392.4	395.5	351.4	339.3	-
3715	Truck trailers.....	33.9	34.2	33.1	33.0	-	26.9	27.1	25.7	25.8	-
372	Aircraft and parts.....	560.3	567.4	624.2	632.8	-	299.6	305.2	340.2	348.3	-
3721	Aircraft.....	311.3	314.7	347.4	351.9	-	151.2	153.7	174.7	178.9	-
3724	Aircraft engines and engine parts.....	138.9	141.1	152.7	155.3	-	78.2	80.1	86.9	89.7	-
3728	Aircraft equipment, nec.....	110.1	111.6	124.1	125.6	-	70.2	71.4	78.6	79.7	-
373	Ship and boat building and repairing.....	219.2	221.9	216.5	218.0	-	176.3	178.8	174.4	175.5	-
3731	Ship building and repairing.....	165.1	167.7	168.2	170.3	-	131.6	133.8	134.4	135.9	-
3732	Boat building and repairing.....	54.1	54.2	48.3	47.7	-	44.7	45.0	40.0	39.6	-
374	Railroad equipment.....	68.5	69.1	72.6	72.7	-	52.5	53.1	56.3	56.6	-
376	Guided missiles, space vehicles, parts.....	92.6	93.7	100.6	101.6	-	28.0	28.8	32.5	32.7	-
3761	Guided missiles and space vehicles.....	73.3	74.2	79.3	80.4	-	20.0	20.6	23.6	23.9	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
	<b>TRANSPORTATION EQUIPMENT—Continued</b>										
379	Miscellaneous transportation equipment .....	72.2	71.9	53.9	53.8	-	55.7	55.7	39.1	39.2	-
3792	Travel trailers and campers .....	49.9	49.4	32.3	32.1	-	40.1	39.7	24.6	24.6	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS .....</b>	<b>672.0</b>	<b>675.6</b>	<b>695.4</b>	<b>695.9</b>	<b>701.7</b>	<b>414.4</b>	<b>416.4</b>	<b>420.4</b>	<b>419.6</b>	<b>424.8</b>
381	Engineering and scientific instruments .....	67.7	68.3	74.2	74.8	-	34.4	34.9	37.2	37.3	-
382	Measuring and controlling devices .....	220.6	222.0	230.5	231.0	-	140.9	142.4	146.4	146.0	-
3822	Environmental controls .....	47.4	47.0	46.5	46.4	-	32.6	32.5	32.8	32.7	-
3823	Process control instruments .....	50.3	50.7	51.1	51.7	-	27.0	27.5	26.3	26.8	-
3825	Instruments to measure electricity .....	85.4	86.3	93.6	93.6	-	54.7	55.5	58.7	57.9	-
383	Optical instruments and lenses .....	29.1	29.3	32.5	32.8	-	16.6	16.6	18.2	18.1	-
384	Medical instruments and supplies .....	143.3	144.9	147.9	150.2	-	95.8	96.8	95.7	97.8	-
3841	Surgical and medical instruments .....	62.0	62.4	63.7	65.4	-	41.9	41.5	40.7	42.3	-
3842	Surgical appliances and supplies .....	63.7	64.5	66.8	67.4	-	42.4	43.5	43.9	44.3	-
385	Ophthalmic goods .....	44.6	44.7	46.0	44.8	-	33.0	33.1	32.9	32.7	-
386	Photographic equipment and supplies .....	135.6	136.0	136.2	135.7	-	69.6	69.2	68.0	67.3	-
387	Watches, clocks, and watchcases .....	31.1	30.4	28.1	26.6	-	24.1	23.4	22.0	20.4	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES .....</b>	<b>473.4</b>	<b>452.3</b>	<b>466.9</b>	<b>462.5</b>	<b>444.1</b>	<b>363.0</b>	<b>341.9</b>	<b>358.5</b>	<b>353.3</b>	<b>336.6</b>
391	Jewelry, silverware, and plated ware .....	66.0	64.1	61.0	61.7	-	48.7	46.3	44.5	45.0	-
3911	Jewelry, precious metal .....	43.3	41.8	39.4	40.0	-	31.5	29.3	28.4	29.0	-
393	Musical instruments .....	26.3	25.7	24.5	24.1	-	21.6	21.1	20.2	19.8	-
394	Toys and sporting goods .....	127.8	113.1	131.9	127.3	-	99.6	85.1	102.9	98.2	-
3942, 4	Dolls, games, toys, and children's vehicles .....	67.0	53.8	70.5	65.9	-	51.6	38.3	54.4	49.7	-
3949	Sporting and athletic goods, nec .....	60.8	59.3	61.4	61.4	-	48.0	46.8	48.5	48.5	-
395	Pens, pencils, office and art supplies .....	39.2	39.5	42.3	42.8	-	28.3	28.5	30.5	30.9	-
396	Costume jewelry and notions .....	68.6	66.2	60.8	60.8	-	56.1	53.9	48.9	48.9	-
3961	Costume jewelry .....	38.8	37.6	34.1	34.0	-	32.2	31.0	27.5	27.3	-
399	Miscellaneous manufactures .....	145.5	143.7	146.4	145.8	-	108.7	107.0	111.5	110.5	-
3993	Signs and advertising displays .....	48.9	48.3	50.5	49.8	-	35.2	34.7	36.9	36.2	-
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS .....</b>	<b>1,740.9</b>	<b>1,717.2</b>	<b>1,766.8</b>	<b>1,726.5</b>	<b>1,703.4</b>	<b>1,192.8</b>	<b>1,171.3</b>	<b>1,226.8</b>	<b>1,190.0</b>	<b>1,168.5</b>
201	Meat products .....	361.9	361.7	366.8	370.5	-	300.4	299.9	306.7	309.1	-
2011	Meat packing plants .....	170.5	170.4	162.4	166.5	-	138.2	138.1	132.8	135.6	-
2013	Sausages and other prepared meats .....	71.6	71.4	70.5	70.6	-	53.0	52.7	51.6	52.0	-
2016	Poultry dressing plants .....	106.3	106.3	119.0	118.6	-	97.3	97.1	109.2	108.6	-
202	Dairy products .....	182.5	182.2	182.5	181.0	-	95.7	95.7	97.3	96.2	-
2022	Cheese, natural and processed .....	32.1	32.2	32.8	32.5	-	24.9	25.0	25.5	25.3	-
2026	Fluid milk .....	117.0	116.9	115.5	115.3	-	50.3	50.3	50.6	50.5	-
203	Preserved fruits and vegetables .....	251.9	231.4	268.5	233.1	-	204.8	185.8	224.8	191.2	-
2032	Canned specialties .....	26.8	27.5	26.3	25.7	-	18.6	19.1	18.6	18.1	-
2033	Canned fruits and vegetables .....	87.3	73.8	106.6	83.3	-	70.1	58.3	91.9	69.8	-
2037	Frozen fruits and vegetables .....	56.8	52.6	56.0	51.0	-	49.7	45.6	49.0	44.1	-
204	Grain mill products .....	146.1	146.3	145.0	144.7	-	100.0	99.9	99.2	99.2	-
2041	Flour and other grain mill products .....	25.8	26.2	26.4	26.6	-	16.5	16.7	16.5	16.7	-
2048	Prepared feeds, nec .....	59.3	59.6	59.4	59.4	-	37.8	38.0	38.4	38.5	-
205	Bakery products .....	236.1	234.8	236.6	236.3	-	137.3	136.3	138.9	138.8	-
2051	Bread, cake, and related products .....	192.5	191.7	191.7	192.0	-	103.0	102.7	103.7	104.3	-
2052	Cookies and crackers .....	43.6	43.1	44.9	44.3	-	34.3	33.6	35.2	34.5	-
206	Sugar and confectionery products .....	122.0	121.2	118.7	118.3	-	94.8	94.7	92.4	92.0	-
2061-3	Cane and beet sugar .....	39.6	39.1	33.7	33.0	-	29.8	29.5	25.1	24.7	-
2065	Confectionery products .....	61.7	61.6	64.0	64.5	-	50.0	50.4	52.2	52.4	-
207	Fats and oils .....	41.9	42.0	40.6	40.9	-	30.3	30.5	29.8	30.1	-
208	Beverages .....	229.0	228.5	233.5	231.2	-	107.5	106.8	107.6	106.2	-
2082	Malt beverages .....	49.7	49.7	49.4	49.9	-	33.4	33.5	33.3	33.9	-
2086	Bottled and canned soft drinks .....	135.1	134.8	138.9	137.6	-	47.1	46.9	48.2	47.1	-
209	Misc. foods and kindred products .....	169.5	169.1	174.6	170.5	-	122.0	121.7	130.1	127.2	-
21	<b>TOBACCO MANUFACTURES .....</b>	<b>74.2</b>	<b>73.9</b>	<b>71.9</b>	<b>64.6</b>	<b>66.9</b>	<b>60.3</b>	<b>60.1</b>	<b>58.1</b>	<b>50.5</b>	<b>52.9</b>
211	Cigarettes .....	44.4	44.7	43.8	43.4	-	34.8	35.1	33.8	33.4	-
22	<b>TEXTILE MILL PRODUCTS .....</b>	<b>901.8</b>	<b>899.9</b>	<b>889.8</b>	<b>891.8</b>	<b>893.3</b>	<b>786.9</b>	<b>784.5</b>	<b>775.2</b>	<b>777.5</b>	<b>779.3</b>
221	Weaving mills, cotton .....	148.8	149.9	150.1	150.7	-	134.0	135.4	135.0	135.7	-
222	Weaving mills, synthetics .....	125.6	125.9	124.6	124.9	-	112.3	112.8	111.9	112.4	-
223	Weaving and finishing mills, wool .....	21.1	21.3	20.7	21.0	-	17.6	17.8	17.1	17.3	-
224	Narrow fabric mills .....	26.0	26.0	25.3	25.6	-	22.9	22.8	22.1	22.3	-
225	Knitting mills .....	235.9	232.4	230.9	231.9	-	204.4	200.4	199.9	201.0	-
2251	Women's hosiery, except socks .....	30.0	30.1	30.5	30.7	-	26.9	26.9	27.4	27.6	-
2252	Hosiery, nec .....	35.0	34.4	33.7	34.8	-	31.8	31.4	30.6	31.7	-
2253	Knit outerwear mills .....	78.1	75.5	76.6	76.2	-	66.7	64.0	65.8	65.1	-
2254	Knit underwear mills .....	33.8	33.6	33.0	33.2	-	29.1	28.9	28.6	28.8	-

See footnotes at end of table.

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979p	Dec. 1979p	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979p	Dec. 1979p
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
2257	Circular knit fabric mills	34.0	33.8	32.5	32.5	-	28.8	28.1	27.0	27.3	-
226	Textile finishing, except wool	79.3	79.0	77.6	77.3	-	67.4	67.0	65.5	65.1	-
2261	Finishing plants, cotton	33.6	33.5	32.5	32.6	-	28.2	28.1	27.2	27.3	-
2262	Finishing plants, synthetics	29.2	29.3	28.6	28.4	-	25.1	25.0	24.1	23.8	-
227	Floor covering mills	62.4	62.5	60.8	60.4	-	51.0	51.0	49.6	49.2	-
228	Yarn and thread mills	132.4	132.7	131.8	133.0	-	120.7	120.8	119.6	120.8	-
2281	Yarn mills, except wool	88.8	88.8	89.0	90.1	-	82.2	82.1	82.5	83.6	-
2282	Throwing and winding mills	22.2	22.3	22.0	21.9	-	19.8	19.8	19.2	19.2	-
229	Miscellaneous textile goods	70.3	70.2	68.0	67.0	-	56.6	56.5	54.5	53.7	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,345.0	1,327.4	1,317.0	1,304.8	1,295.2	1,156.0	1,136.7	1,125.5	1,115.1	1,105.5
231	Men's and boys' suits and coats	90.6	90.3	83.1	83.8	-	79.4	79.0	71.6	72.4	-
232	Men's and boys' furnishings	366.4	361.8	369.3	369.4	-	316.2	311.2	317.1	317.5	-
2321	Men's and boys' shirts and nightwear	107.4	106.2	106.7	105.9	-	93.3	92.1	92.9	92.3	-
2327	Men's and boys' separate trousers	79.7	79.0	79.7	79.9	-	69.7	69.0	69.4	69.2	-
2328	Men's and boys' work clothing	97.6	96.6	102.0	104.0	-	82.8	81.5	85.2	87.7	-
233	Women's and misses' outerwear	449.6	443.2	438.8	431.8	-	388.6	380.5	376.6	370.3	-
2331	Women's and misses' blouses and waists	62.6	62.1	59.9	59.6	-	54.9	54.5	51.9	51.4	-
2335	Women's and misses' dresses	173.4	170.4	168.7	167.0	-	153.1	148.5	148.0	146.7	-
2337	Women's and misses' suits and coats	64.8	62.3	67.0	61.3	-	55.6	53.2	58.3	53.1	-
2339	Women's and misses' outerwear, nec	148.8	148.4	143.2	143.9	-	125.0	124.3	118.4	119.1	-
234	Women's and children's undergarments	92.4	90.8	90.4	90.5	-	79.0	77.3	76.5	76.9	-
2341	Women's and children's underwear	72.6	71.2	71.7	71.6	-	63.2	61.7	62.0	61.7	-
2342	Brassieres and allied garments	19.8	19.6	18.7	18.9	-	15.8	15.6	14.5	15.2	-
236	Children's outerwear	68.4	67.8	64.4	64.9	-	58.2	57.8	55.5	56.2	-
2361	Children's dresses and blouses	26.8	26.3	25.0	24.6	-	24.0	23.4	22.6	22.3	-
238	Misc. apparel and accessories	60.2	58.2	57.4	55.7	-	51.9	49.9	49.6	47.8	-
239	Misc. fabricated textile products	197.6	195.6	194.2	189.4	-	165.4	163.9	162.1	157.5	-
2391	Curtains and draperies	31.1	30.8	31.5	31.3	-	27.2	27.0	27.3	27.1	-
2392	House furnishings, nec	52.8	51.9	53.9	54.4	-	44.1	43.6	45.2	45.8	-
2396	Automotive and apparel trimmings	38.9	39.5	38.1	33.3	-	32.7	33.2	32.0	27.2	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	702.4	704.1	717.7	715.8	716.4	527.9	530.4	545.9	543.6	545.4
261, 26	Paper and pulp mills	193.2	194.0	200.2	201.0	-	143.3	144.2	150.8	151.1	-
262	Paper mills, except building paper	164.5	165.1	170.5	171.0	-	120.8	121.5	126.9	127.0	-
263	Paperboard mills	69.2	69.5	71.7	70.8	-	54.5	54.9	56.6	55.6	-
264	Misc. converted paper products	221.7	221.8	227.4	226.6	-	160.7	161.5	169.2	168.3	-
2641	Paper coating and glazing	57.0	57.8	61.0	61.0	-	33.5	34.9	39.9	39.7	-
2642	Envelopes	24.4	24.6	24.8	25.1	-	19.1	19.3	19.8	20.0	-
2643	Bags, except textile bags	51.2	51.7	52.5	53.1	-	39.8	40.4	40.8	41.7	-
265	Paperboard containers and boxes	218.3	218.8	218.4	217.4	-	169.4	169.8	169.3	168.6	-
2651	Folding paperboard boxes	46.9	47.2	47.2	46.6	-	37.6	37.8	37.5	37.0	-
2653	Corrugated and solid fiber boxes	108.8	108.9	109.1	109.0	-	80.8	81.1	81.2	81.1	-
2654	Sanitary food containers	28.6	28.4	28.1	27.9	-	23.8	23.4	23.3	23.2	-
27	<b>PRINTING AND PUBLISHING</b>	1,215.1	1,226.4	1,254.5	1,265.5	1,273.5	682.9	692.4	709.8	717.3	724.3
271	Newspapers	413.7	415.7	424.4	428.4	-	166.3	166.7	170.0	172.4	-
272	Periodicals	81.8	81.7	83.0	83.9	-	14.1	14.1	13.8	13.8	-
273	Books	99.8	101.8	100.9	103.3	-	49.0	51.1	50.2	52.5	-
2731	Book publishing	70.9	72.1	72.2	73.8	-	24.7	25.9	26.2	27.7	-
2732	Book printing	28.9	29.7	28.7	29.5	-	24.3	25.2	24.0	24.8	-
274	Miscellaneous publishing	46.7	48.3	48.0	50.1	-	28.8	30.4	29.2	31.1	-
275	Commercial printing	401.8	407.0	418.6	420.0	-	297.3	302.2	312.6	313.2	-
2751	Commercial printing, letterpress	172.4	174.7	174.9	175.1	-	127.8	129.9	130.2	130.2	-
2752	Commercial printing, lithographic	207.3	210.1	221.1	221.8	-	151.3	153.8	163.6	163.9	-
276	Manifold business forms	46.2	46.6	49.4	49.8	-	33.2	33.4	34.9	35.2	-
278	Blankbooks and bookbinding	62.2	62.4	66.2	66.6	-	51.1	51.4	55.0	55.6	-
279	Printing trade services	40.5	40.6	40.9	41.0	-	29.5	29.5	30.2	30.4	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1,103.2	1,103.0	1,115.0	1,116.6	1,122.3	630.8	631.8	637.3	635.2	641.6
281	Industrial inorganic chemicals	167.3	168.6	171.6	174.1	-	93.0	93.8	91.8	91.2	-
2819	Industrial inorganic chemicals, nec	109.1	109.5	110.6	112.9	-	59.9	60.0	58.9	58.4	-
282	Plastics materials and synthetics	216.2	216.5	217.2	217.0	-	147.5	147.8	148.1	147.5	-
2821	Plastics materials and resins	83.9	83.8	84.2	84.5	-	51.7	51.8	51.0	51.2	-
2824	Organic fibers, noncellulosic	96.7	97.1	96.2	95.5	-	69.4	69.6	69.4	68.4	-
283	Drugs	188.6	188.8	191.9	192.8	-	90.0	90.7	94.7	95.1	-
2834	Pharmaceutical preparations	151.2	151.4	153.4	154.2	-	69.1	70.0	73.0	73.6	-
284	Soap, cleaners, and toilet goods	139.7	138.2	140.6	138.2	-	86.0	84.4	85.1	84.5	-
2841	Soap and other detergents	41.8	41.9	41.0	40.7	-	27.4	27.2	26.6	26.5	-
2844	Toilet preparations	57.4	55.6	58.1	56.6	-	35.8	34.3	35.9	35.5	-
2842, 3	Polishing, sanitation, and finishing preparations	40.5	40.7	41.5	40.9	-	22.8	22.9	22.6	22.5	-
285	Paints and allied products	70.3	68.8	69.0	68.6	-	36.1	35.7	35.6	34.8	-
286	Industrial organic chemicals	165.1	165.1	165.4	165.4	-	85.8	85.8	87.0	86.5	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
2865	Cyclic crudes and intermediates . . . . .	37.0	37.1	37.8	37.6	-	23.3	23.4	23.7	23.3	-
2861,9	Gum, wood, and industrial organic chemicals, nec . . . . .	128.1	128.0	127.6	127.8	-	62.5	62.4	63.3	63.2	-
287	Agricultural chemicals . . . . .	66.0	66.6	68.6	69.6	-	41.5	42.3	43.5	44.0	-
289	Miscellaneous chemical products . . . . .	90.0	90.4	90.7	90.9	-	50.9	51.3	51.5	51.6	-
29	<b>PETROLEUM AND COAL PRODUCTS . . . . .</b>	210.7	209.0	218.1	217.3	214.7	137.9	136.1	142.1	140.9	139.2
291	Petroleum refining . . . . .	165.1	165.1	171.6	172.3	-	104.2	104.4	107.6	107.5	-
295	Paving and roofing materials . . . . .	34.5	32.7	34.9	33.5	-	26.9	24.9	27.2	26.1	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS . . . . .</b>	771.9	773.5	762.6	759.2	753.6	606.9	608.6	596.4	594.0	589.2
301	Tires and inner tubes . . . . .	128.8	129.0	117.9	118.0	-	93.4	94.0	83.7	84.6	-
302	Rubber and plastics footwear . . . . .	24.6	25.1	22.5	22.3	-	21.5	22.0	19.8	19.6	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting . . . . .	23.4	23.7	23.0	23.3	-	17.6	17.9	16.8	17.1	-
306	Fabricated rubber products, nec . . . . .	116.1	116.9	113.3	111.9	-	91.5	92.3	89.0	87.7	-
307	Miscellaneous plastics products . . . . .	479.0	478.8	485.9	483.7	-	382.9	382.4	387.1	385.0	-
31	<b>LEATHER AND LEATHER PRODUCTS . . . . .</b>	255.1	251.5	243.1	242.6	241.7	218.4	214.0	206.6	205.9	204.3
311	Leather tanning and finishing . . . . .	21.4	21.6	19.6	19.5	-	18.0	18.2	16.4	16.5	-
314	Footwear, except rubber . . . . .	156.7	154.9	147.0	146.8	-	135.9	133.8	125.7	125.2	-
3143	Men's footwear, except athletic . . . . .	62.9	62.6	56.3	56.3	-	55.3	54.7	48.5	48.5	-
3144	Women's footwear, except athletic . . . . .	62.2	62.6	61.0	60.8	-	53.6	53.7	51.8	51.4	-
316	Luggage . . . . .	18.0	17.4	17.6	17.6	-	13.9	13.3	13.8	13.8	-
317	Handbags and personal leather goods . . . . .	32.9	31.7	34.3	34.1	-	28.0	26.5	29.7	29.4	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES . . . . .</b>	5,063	5,084	5,244	5,253	5,255	4,249	4,260	4,396	4,398	4,407
40	<b>RAILROAD TRANSPORTATION . . . . .</b>	552.9	544.1	555.9	551.9	-	-	-	-	-	-
4011	Class I railroads <sup>2</sup> . . . . .	509.9	501.8	511.0	507.3	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT . . . . .</b>	267.9	268.1	272.3	273.2	-	247.5	247.7	251.6	252.4	-
411	Local and suburban transportation . . . . .	70.7	70.1	74.4	74.8	-	65.5	64.9	68.8	68.9	-
412	Taxis . . . . .	65.1	65.9	63.7	64.5	-	-	-	-	-	-
413	Intercity highway transportation . . . . .	35.4	36.0	37.6	37.5	-	32.4	33.1	34.7	34.6	-
415	School buses . . . . .	82.9	82.9	81.9	81.9	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING . . . . .</b>	1,373.0	1,385.3	1,408.0	1,409.6	-	1,219.2	1,228.3	1,245.4	1,245.0	-
421,3	Trucking and trucking terminals . . . . .	1,280.6	1,292.6	1,311.6	1,309.7	-	1,139.0	1,147.9	1,161.8	1,157.9	-
422	Public warehousing . . . . .	92.4	92.7	96.4	99.9	-	80.2	80.4	83.6	87.1	-
44	<b>WATER TRANSPORTATION . . . . .</b>	214.6	217.0	227.3	227.6	-	-	-	-	-	-
45	<b>TRANSPORTATION BY AIR . . . . .</b>	411.6	418.5	432.1	430.6	-	-	-	-	-	-
451,2	Air transportation . . . . .	368.9	375.3	385.0	383.2	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS . . . . .</b>	19.5	19.5	19.1	19.1	-	13.9	13.9	13.6	13.6	-
47	<b>TRANSPORTATION SERVICES . . . . .</b>	174.9	175.0	192.7	192.4	-	-	-	-	-	-
48	<b>COMMUNICATION . . . . .</b>	1,263.3	1,269.9	1,320.9	1,331.8	-	954.3	958.7	994.1	999.8	-
481	Telephone communication . . . . .	1,011.7	1,015.1	1,053.6	1,060.5	-	749.2	751.0	773.4	776.2	-
483	Radio and television broadcasting . . . . .	184.7	185.8	195.6	198.3	-	146.5	147.4	157.5	159.6	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES . . . . .</b>	785.0	786.2	816.1	816.4	-	640.2	641.8	664.3	664.9	-
491	Electric services . . . . .	360.3	361.3	377.4	378.5	-	290.6	291.7	304.6	305.5	-
492	Gas production and distribution . . . . .	164.7	165.0	169.8	168.7	-	134.7	134.9	138.3	137.6	-
493	Combination utility services . . . . .	192.2	192.4	196.0	196.5	-	156.2	157.1	158.6	159.2	-
495	Sanitary services . . . . .	44.1	43.9	47.8	47.6	-	39.1	38.9	42.2	41.9	-
-	<b>WHOLESALE AND RETAIL TRADE . . . . .</b>	20,095	20,523	20,314	20,575	20,978	17,725	18,138	17,851	18,101	18,495
50,51	<b>WHOLESALE TRADE . . . . .</b>	5,069	5,092	5,235	5,249	5,262	4,174	4,187	4,300	4,310	4,323
50	<b>WHOLESALE TRADE - DURABLE GOODS . . . . .</b>	2,956	2,970	3,081	3,093	-	2,426	2,435	2,529	2,537	-
501	Motor vehicles and automotive equipment . . . . .	430.4	431.1	437.5	434.6	-	352.6	352.7	356.7	354.1	-
502	Furniture and home furnishing . . . . .	104.7	104.8	106.0	107.8	-	84.9	85.4	86.6	88.1	-
503	Lumber and construction materials . . . . .	183.7	183.0	188.3	188.8	-	153.3	152.7	157.4	157.4	-
504	Sporting goods, toys, and hobby goods . . . . .	65.6	65.7	65.2	66.6	-	54.4	54.5	53.8	54.9	-
505	Metals and minerals, except petroleum . . . . .	146.4	147.1	155.7	156.1	-	119.0	119.5	126.8	127.0	-
506	Electrical goods . . . . .	398.3	400.9	419.2	423.3	-	328.6	330.5	342.4	345.4	-
507	Hardware, plumbing, and heating equipment . . . . .	236.3	237.7	243.1	244.5	-	195.6	197.0	201.4	202.1	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p
	<b>WHOLESALE TRADE-DURABLE GOODS—</b>										
	Continued										
508	Machinery, equipment, and supplies .....	1,188.2	1,195.5	1,255.4	1,258.7	-	966.2	970.2	1,025.6	1,027.8	-
509	Miscellaneous durable goods .....	202.8	203.8	210.6	212.7	-	170.9	172.2	178.0	179.8	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	2,113	2,122	2,154	2,156	-	1,748	1,752	1,771	1,773	-
511	Paper and paper products .....	136.9	137.7	140.3	141.0	-	111.2	111.7	113.9	114.4	-
512	Drugs, proprietaries, and sundries .....	141.6	142.3	144.1	145.7	-	121.4	122.3	122.6	124.3	-
513	Apparel, piece goods, and notions .....	165.7	165.5	173.1	173.6	-	132.0	130.9	137.9	138.3	-
514	Groceries and related products .....	643.4	648.2	650.4	643.2	-	557.9	560.2	561.3	554.2	-
516	Chemicals and allied products .....	114.3	115.7	117.1	117.7	-	82.0	82.7	85.6	86.2	-
517	Petroleum and petroleum products .....	225.0	226.8	221.9	223.8	-	169.8	170.8	161.5	163.1	-
518	Beer, wine, and distilled beverages .....	133.8	135.8	140.4	142.0	-	114.1	115.8	119.3	120.6	-
519	Miscellaneous nondurable goods .....	392.0	392.4	409.4	411.9	-	324.4	325.0	338.7	340.5	-
52-59	<b>RETAIL TRADE</b> .....	15,026	15,431	15,079	15,326	15,716	13,551	13,951	13,551	13,791	14,172
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	SUPPLIES .....	620.7	621.9	633.6	634.9	-	530.5	532.1	540.8	542.5	-
521	Lumber and other building materials .....	330.5	328.0	339.7	336.8	-	284.7	282.0	291.3	288.1	-
525	Hardware stores .....	145.3	149.2	149.1	151.4	-	124.5	128.6	129.2	131.7	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	2,452.4	2,644.5	2,262.1	2,406.4	-	2,299.2	2,487.7	2,107.5	2,248.8	-
531	Department stores .....	2,002.0	2,162.8	1,829.2	1,952.1	-	1,889.2	2,046.1	1,715.1	1,836.8	-
533	Variety stores .....	304.4	322.4	281.4	295.4	-	284.0	302.1	261.1	274.3	-
539	Misc. general merchandise stores .....	146.0	159.3	151.5	158.9	-	126.0	139.5	131.3	137.7	-
54	<b>FOOD STORES</b> .....	2,264.5	2,290.3	2,308.8	2,342.7	-	2,089.2	2,113.9	2,130.7	2,164.2	-
541	Grocery stores .....	1,975.0	1,995.8	2,032.5	2,056.8	-	1,824.5	1,843.4	1,877.8	1,901.6	-
542	Meat markets and freezer provisioners .....	52.3	53.5	51.3	52.2	-	-	-	-	-	-
546	Retail bakeries .....	127.8	128.5	126.6	128.0	-	117.6	118.3	116.2	118.0	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	STATIONS .....	1,880.6	1,884.6	1,798.9	1,791.8	-	1,614.0	1,617.5	1,530.9	1,521.6	-
551.2	New and used car dealers .....	905.0	904.0	877.6	872.3	-	755.5	753.8	727.2	721.4	-
553	Auto and home supply stores .....	262.0	267.1	260.4	260.2	-	228.9	232.9	227.1	226.8	-
554	Gasoline service stations .....	631.4	631.9	572.3	572.4	-	559.7	561.4	501.0	499.4	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	958.3	1,042.2	939.1	980.0	-	833.7	916.6	808.3	847.8	-
561	Men's and boys' clothing and furnishings .....	145.6	164.3	140.5	145.7	-	124.6	143.4	118.9	124.1	-
562	Women's ready-to-wear stores .....	366.3	394.1	358.6	375.1	-	321.2	348.3	312.6	328.1	-
565	Family clothing stores .....	178.0	202.2	177.3	188.4	-	158.1	182.0	155.3	166.0	-
566	Shoe stores .....	177.2	186.6	175.2	180.0	-	149.2	158.4	145.2	149.9	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	STORES .....	615.9	626.4	616.7	623.4	-	513.2	524.1	509.2	516.3	-
571	Furniture and home furnishings .....	371.2	373.8	367.3	370.2	-	313.3	316.1	306.9	309.7	-
572	Household appliance stores .....	89.6	90.9	91.1	91.8	-	76.2	77.9	78.1	78.9	-
573	Radio, television, and music stores .....	155.1	161.7	158.3	161.4	-	123.7	130.1	124.2	127.7	-
58	<b>EATING AND DRINKING PLACES</b> .....	4,319.5	4,319.7	4,610.6	4,579.5	-	3,980.1	3,979.0	4,244.5	4,214.0	-
59	<b>MISCELLANEOUS RETAIL</b> .....	1,914.1	2,000.5	1,909.3	1,967.5	-	1,691.1	1,779.9	1,679.2	1,735.5	-
591	Drug stores and proprietary stores .....	496.6	517.9	511.0	518.0	-	453.4	473.9	465.7	472.8	-
592	Liquor stores .....	128.2	135.7	140.5	141.2	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	590.5	635.9	582.1	614.2	-	508.4	553.7	497.0	528.0	-
596	Nonstore retailers .....	304.5	303.8	274.7	287.1	-	285.8	288.4	258.6	271.3	-
598	Fuel and ice dealers .....	103.7	108.1	101.5	105.3	-	88.3	92.6	85.4	88.8	-
599	Retail stores, nec. ....	236.7	246.3	244.4	246.8	-	201.6	211.1	205.7	207.1	-
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> ..	4,817	4,832	5,013	5,031	5,055	3,669	3,679	3,800	3,808	3,827
60	<b>BANKING</b> .....	1,447.2	1,454.8	1,497.0	1,508.5	-	1,128.6	1,133.9	1,156.8	1,166.3	-
602	Commercial and stock savings banks .....	1,321.5	1,328.1	1,366.1	1,376.8	-	1,026.1	1,030.9	1,050.5	1,058.9	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	528.3	532.7	558.4	561.6	-	407.5	411.3	427.8	430.5	-
612	Savings and loan associations .....	224.6	227.1	242.6	244.7	-	176.0	178.2	187.6	189.2	-
614	Personal credit institutions .....	204.1	205.9	214.1	215.5	-	155.7	156.9	163.0	164.6	-
62	<b>SECURITY, COMMODITY BROKERS, AND SERVICES</b> ..	196.5	196.7	209.5	211.4	-	-	-	-	-	-
621	Security brokers and dealers .....	158.4	158.4	167.7	168.7	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	1,189.8	1,193.6	1,220.7	1,223.3	-	832.5	833.4	853.2	853.0	-
631	Life insurance .....	518.6	519.5	524.1	524.6	-	311.3	310.4	313.5	313.7	-

See footnotes at end of table.



# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p
	<b>INSURANCE CARRIERS—Continued</b>										
632	Medical service and health insurance .....	137.2	137.6	137.8	137.8	-	110.8	111.1	110.6	110.4	-
633	Fire, marine, and casualty insurance .....	460.4	462.9	482.4	484.9	-	349.8	351.2	367.5	367.9	-
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b>	417.2	419.6	435.7	438.1	-	-	-	-	-	-
65	<b>REAL ESTATE</b>	906.9	903.3	953.8	948.7	-	-	-	-	-	-
651	Real estate operators and lessors .....	426.1	425.8	441.8	442.2	-	-	-	-	-	-
653	Real estate agents and managers .....	329.7	331.5	352.9	350.6	-	-	-	-	-	-
655	Subdividers and developers .....	126.8	122.1	134.4	131.2	-	-	-	-	-	-
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b>	26.9	26.7	26.8	26.8	-	-	-	-	-	-
67	<b>HOLDING AND OTHER INVESTMENT OFFICES.</b>	103.7	104.6	111.4	113.0	-	-	-	-	-	-
-	<b>SERVICES</b>	16,537	16,547	17,292	17,297	17,298	14,684	14,695	15,365	15,371	15,366
70	<b>HOTELS AND OTHER LODGING PLACES</b>	937.4	933.1	1,043.3	1,011.8	-	-	-	-	-	-
701	Hotels, motels, and tourist courts .....	904.9	899.0	1,002.2	974.5	-	831.4	827.8	921.1	894.9	-
72	<b>PERSONAL SERVICES</b>	907.7	912.9	895.4	895.8	-	-	-	-	-	-
721	Laundry, cleaning, and garment services .....	359.8	358.7	352.7	353.9	-	320.6	319.3	314.8	315.5	-
723	Beauty shops .....	279.3	283.0	275.6	275.0	-	257.1	260.4	254.7	253.7	-
726	Funeral service and crematories .....	69.5	70.0	71.5	72.0	-	-	-	-	-	-
73	<b>BUSINESS SERVICES</b>	2,735.3	2,741.3	2,935.0	2,946.6	-	2,384.8	2,386.8	2,563.6	2,572.0	-
731	Advertising .....	145.0	144.6	150.2	150.8	-	107.1	107.0	111.7	112.6	-
732	Credit reporting and collection .....	77.8	77.5	75.2	74.5	-	-	-	-	-	-
733	Mailing, reproduction, stenographic .....	109.8	106.5	108.7	109.4	-	-	-	-	-	-
734	Services to buildings .....	453.8	452.7	499.5	500.1	-	407.4	407.1	452.4	452.4	-
736	Personnel supply services .....	481.2	482.0	523.4	523.4	-	-	-	-	-	-
737	Computer and data processing services .....	234.7	239.5	266.6	272.3	-	193.0	196.6	220.4	225.4	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b>	561.0	566.4	572.8	570.3	-	482.6	487.9	490.8	488.1	-
753	Automotive repair shops .....	349.1	351.7	359.6	356.3	-	298.5	301.1	305.9	302.6	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b>	263.6	267.7	284.6	289.6	-	225.7	229.3	243.8	249.2	-
78	<b>MOTION PICTURES</b>	210.6	206.6	211.6	209.6	-	185.4	182.7	188.6	186.1	-
781	Motion picture production and services .....	80.6	78.1	80.4	82.1	-	69.2	67.6	70.4	71.6	-
783	Motion picture theaters .....	118.8	117.4	120.4	116.9	-	-	-	-	-	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b>	683.3	667.6	689.7	651.5	-	613.3	601.1	623.1	587.7	-
80	<b>HEALTH SERVICES</b>	4,894.0	4,906.9	5,109.2	5,127.5	-	4,357.5	4,374.1	4,551.7	4,570.7	-
801	Offices of physicians .....	691.2	694.9	727.2	726.7	-	566.4	571.6	595.7	595.0	-
802	Offices of dentists .....	305.3	307.3	320.7	320.9	-	265.9	268.4	277.4	278.2	-
805	Nursing and personal care facilities .....	940.0	942.8	995.3	1,000.1	-	846.9	849.5	896.9	902.0	-
806	Hospitals .....	2,587.7	2,589.2	2,676.8	2,687.6	-	2,361.5	2,365.4	2,447.0	2,457.3	-
81	<b>LEGAL SERVICES</b>	441.4	444.2	471.9	473.2	-	380.5	382.5	403.9	406.0	-
82	<b>EDUCATIONAL SERVICES</b>	1,126.0	1,107.3	1,128.3	1,146.4	-	-	-	-	-	-
821	Elementary and secondary schools .....	237.4	234.0	241.2	250.0	-	-	-	-	-	-
822	Colleges and universities .....	774.9	758.9	769.9	777.2	-	-	-	-	-	-
83	<b>SOCIAL SERVICES</b>	995.1	1,007.9	1,021.3	1,033.0	-	-	-	-	-	-
86	<b>MEMBERSHIP ORGANIZATIONS</b>	1,530.4	1,539.4	1,593.4	1,608.0	-	-	-	-	-	-
89	<b>MISCELLANEOUS SERVICES</b>	891.2	897.3	953.9	965.2	-	738.9	741.0	788.3	800.8	-
891	Engineering and architectural services .....	485.2	486.3	522.4	529.6	-	409.0	409.6	442.9	450.0	-
893	Accounting, auditing, and bookkeeping .....	279.0	283.5	295.8	298.2	-	222.7	227.1	233.4	237.0	-
-	<b>GOVERNMENT<sup>4</sup></b>	15,703	15,687	15,763	15,916	15,938	-	-	-	-	-
-	<b>FEDERAL GOVERNMENT</b>	2,746	2,733	2,756	2,760	2,770	-	-	-	-	-
-	Executive .....	2,694.4	2,681.2	2,702.7	2,707.0	-	-	-	-	-	-
-	Department of Defense .....	905.3	902.0	887.8	888.0	-	-	-	-	-	-
-	Postal Service .....	651.4	651.4	653.7	673.0	-	-	-	-	-	-
-	Other executive agencies .....	1,137.7	1,127.8	1,161.2	1,146.0	-	-	-	-	-	-
-	Manufacturing activities .....	122.6	122.4	120.9	121.5	-	-	-	-	-	-
-	Shipbuilding .....	71.7	71.6	71.2	71.6	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sup>p</sup>	Dec. 1979 <sup>p</sup>	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sup>p</sup>	Dec. 1979 <sup>p</sup>
-	Executive—Continued										
-	Transportation and public utilities, except										
-	Postal Service .....	49.0	48.2	4.1	4.2	-	-	-	-	-	-
-	Services .....	384.4	382.2	380.4	380.3	-	-	-	-	-	-
-	Hospitals .....	225.3	224.3	223.3	224.4	-	-	-	-	-	-
-	Legislative .....	38.7	38.7	39.6	40.0	-	-	-	-	-	-
-	Judicial .....	12.9	12.9	13.3	13.0	-	-	-	-	-	-
-	<b>STATE AND LOCAL GOVERNMENT .....</b>	<b>12,957</b>	<b>12,954</b>	<b>13,007</b>	<b>13,156</b>	<b>13,168</b>	-	-	-	-	-
-	State government .....	3,504.4	3,482.5	3,537.8	3,573.5	-	-	-	-	-	-
-	Hospitals .....	556.5	559.6	556.0	563.6	-	-	-	-	-	-
-	State education .....	1,479.7	1,455.6	1,477.3	1,507.5	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions .....	893.0	892.0	911.6	910.3	-	-	-	-	-	-
-	Local government .....	9,452.2	9,471.3	9,465.2	9,582.8	-	-	-	-	-	-
-	Transportation and public utilities .....	574.3	575.7	591.9	596.0	-	-	-	-	-	-
-	Hospitals .....	517.9	517.6	532.9	533.6	-	-	-	-	-	-
-	Local education .....	5,308.5	5,330.2	5,266.7	5,378.8	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions .....	2,716.8	2,711.4	2,728.9	2,727.5	-	-	-	-	-	-

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

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

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

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

\* Not available.  
p = preliminary.

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979	Oct. 1979
--	<b>TOTAL</b> .....	35,542	36,040	36,524	37,105	37,629
--	<b>PRIVATE SECTOR</b> .....	28,593	28,773	29,801	29,987	30,143
--	<b>MINING</b> .....	80	81	96	94	94
10	<b>METAL MINING</b> .....	7.0	7.0	8.7	8.4	8.4
11, 12	<b>COAL MINING</b> .....	8.5	8.5	9.5	9.3	9.7
13	<b>OIL AND GAS EXTRACTION</b> .....	56.4	56.9	68.1	66.2	66.7
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	36.3	36.6	43.7	42.6	43.2
138	Oil and gas field services .....	20.1	20.3	24.4	23.6	23.5
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	8.3	8.2	9.5	9.6	9.6
142	Crushed and broken stone .....	2.5	2.5	2.8	2.7	2.8
144	Sand and gravel .....	2.7	2.6	3.2	3.3	3.2
--	<b>CONSTRUCTION</b> .....	344	345	388	388	388
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	125.9	125.7	140.5	140.1	139.5
152	Residential building construction .....	76.1	75.8	84.5	84.2	83.5
153	Operative builders .....	17.0	16.7	17.6	17.7	17.5
154	Nonresidential building construction .....	32.8	33.2	38.4	38.2	38.5
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	52.8	53.1	58.7	59.1	58.6
161	Highway and street construction .....	15.3	15.3	20.3	20.5	19.8
162	Heavy construction, except highway .....	37.5	37.8	38.4	38.6	38.8
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	164.9	166.5	188.5	188.8	190.0
171	Plumbing, heating, air conditioning .....	44.9	45.3	49.3	49.1	49.3
172	Painting, paper hanging, decorating .....	10.2	10.5	12.8	12.5	12.4
173	Electrical work .....	29.6	29.9	31.7	32.4	32.8
174	Masonry, stonework, and plastering .....	18.5	19.1	22.5	22.9	22.7
175	Carpentering and flooring .....	13.4	13.3	16.2	16.2	16.4
176	Roofing and sheet metal work .....	11.4	11.6	13.5	13.4	13.8
--	<b>MANUFACTURING</b> .....	6,405	6,421	6,505	6,568	6,576
24, 25, 32-39	<b>DURABLE GOODS</b> .....	2,966	3,001	3,067	3,122	3,137
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	3,439	3,420	3,438	3,446	3,439
	<b>DURABLE GOODS</b>					
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	110.0	110.5	115.1	116.7	117.2
241	Logging camps and logging contractors .....	5.1	5.0	5.4	5.3	5.5
242	Sawmills and planing mills .....	21.7	21.8	22.9	23.2	23.0
2421	Sawmills and planing mills, general .....	14.9	14.9	15.9	16.1	15.9
243	Millwork, plywood, and structural members .....	44.9	45.0	46.9	47.6	47.7
244	Wooden containers .....	7.2	7.2	7.3	7.2	7.3
245	Wood buildings and mobile homes .....	10.9	10.9	11.3	11.3	11.3
249	Miscellaneous wood products .....	20.2	20.6	21.3	22.1	22.4
25	<b>FURNITURE AND FIXTURES</b> .....	144.7	146.4	142.9	144.4	144.9
251	Household furniture .....	108.6	109.9	105.6	106.8	107.4
2511	Wood household furniture .....	44.8	45.0	44.7	45.2	45.5
2512	Upholstered household furniture .....	37.3	37.5	35.6	35.9	36.4
2515	Mattresses and bedsprings .....	8.9	8.9	8.9	8.9	8.9
252	Office furniture .....	10.9	11.0	11.5	11.5	11.4
253	Public building and related furniture .....	5.1	5.1	5.4	5.4	5.3
254	Partitions and fixtures .....	10.1	10.2	10.7	10.7	10.9
259	Miscellaneous furniture and fixtures .....	10.0	10.2	9.7	10.0	9.9
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	131.3	131.8	134.7	136.1	136.0
322	Glass and glassware, pressed or blown .....	46.4	45.8	43.6	44.4	44.3
3221	Glass containers .....	26.9	26.3	24.6	24.6	24.5
3229	Pressed and blown glass, nec .....	19.5	19.5	19.0	19.8	19.8
323	Products of purchased glass .....	12.1	12.6	14.0	14.5	14.6
324	Cement, hydraulic .....	1.7	1.7	1.8	1.8	1.8
325	Structural clay products .....	6.2	6.3	6.8	6.8	6.8
326	Pottery and related products .....	16.7	17.0	16.4	16.4	17.0
327	Concrete, gypsum, and plaster products .....	15.0	14.6	15.9	16.0	15.8
329	Misc. nonmetallic mineral products .....	30.3	30.9	33.1	32.9	32.7
33	<b>PRIMARY METAL INDUSTRIES</b> .....	125.2	126.2	134.6	133.9	133.8
331	Blast furnace and basic steel products .....	39.7	39.8	46.4	44.7	43.1
3312	Blast furnaces and steel mills .....	30.8	30.8	36.6	35.1	33.4
332	Iron and steel foundries .....	19.6	20.0	20.2	20.4	20.1

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

(In thousands)						
1972 SIC Code	Industry	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979	Oct. 1979
<b>PRIMARY METAL INDUSTRIES — Continued</b>						
3321	Gray iron foundries .....	10.0	10.1	9.5	9.7	9.2
3322	Malleable iron foundries .....	1.6	1.6	1.6	1.4	1.4
3325	Steel foundries, nec .....	4.3	4.4	4.8	4.8	4.9
333	Primary nonferrous metals .....	4.5	4.6	5.1	4.9	4.9
3334	Primary aluminum .....	1.7	1.7	2.2	2.0	2.0
335	Nonferrous rolling and drawing .....	40.9	41.1	41.6	42.2	43.7
3351	Copper rolling and drawing .....	3.7	3.7	4.0	3.7	3.7
3353	Aluminum sheet, plate, and foil .....	4.3	4.4	4.6	4.5	4.4
3357	Nonferrous wire drawing and insulating .....	24.0	24.2	23.6	24.8	26.2
336	Nonferrous foundries .....	15.7	15.9	15.9	16.3	16.7
3381	Aluminum foundries .....	7.3	7.5	8.0	8.1	8.3
34	<b>FABRICATED METAL PRODUCTS</b> .....	348.3	353.4	359.2	363.2	366.6
341	Metal cans and shipping containers .....	13.3	12.8	13.8	13.7	13.7
3411	Metal cans .....	11.6	11.1	11.9	11.8	11.8
342	Cutlery, hand tools, and hardware .....	61.4	62.4	60.5	61.1	62.0
3423, 5	Hand and edge tools, and hand saws and blades .....	16.9	17.1	18.0	17.6	17.8
3429	Hardware, nec .....	37.3	38.0	35.4	36.4	36.9
343	Plumbing and heating, except electric .....	18.3	18.6	19.6	19.7	19.8
344	Fabricated structural metal products .....	70.6	71.4	74.8	75.7	76.7
3441	Fabricated structural metal .....	7.0	7.2	7.9	8.0	8.1
3442	Metal doors, sash, and trim .....	24.0	24.1	24.4	24.7	25.1
3443	Fabricated plate work (boiler shops) .....	15.2	15.3	16.7	17.0	17.1
3444	Sheet metal work .....	14.6	14.8	15.5	15.8	16.2
345	Screw machine products, bolts, etc. ....	23.5	24.2	26.3	26.7	27.2
3451	Screw machine products .....	12.1	12.4	13.5	13.8	14.1
3452	Bolts, nuts, rivets, and washers .....	11.4	11.8	12.8	12.9	13.1
346	Metal forgings and stampings .....	59.4	60.6	58.6	58.7	59.1
3462	Iron and steel forgings .....	4.1	4.4	4.6	4.6	4.6
3465	Automotive stampings .....	15.7	16.2	13.3	14.1	13.9
3469	Metal stampings, nec .....	37.5	37.9	38.5	37.9	38.6
347	Metal services, nec .....	25.9	26.3	25.9	26.6	26.7
3471	Plating and polishing .....	18.1	18.5	17.9	18.2	18.4
3479	Metal coating and allied services .....	7.8	7.8	8.0	8.4	8.3
348	Ordinance and accessories, nec .....	16.6	16.7	17.2	17.1	17.0
349	Misc. fabricated metal products .....	59.3	60.4	62.5	63.9	64.4
3494	Valves and pipe fittings .....	21.5	21.4	23.3	23.7	23.6
3496	Misc. fabricated wire products .....	13.5	13.8	14.3	14.6	14.9
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	437.3	443.5	473.7	481.3	481.6
351	Engines and turbines .....	23.2	23.7	25.6	26.0	25.5
3511	Turbines and turbine generator sets .....	6.0	5.9	5.8	5.8	5.8
3519	Internal combustion engines, nec .....	17.2	17.8	19.8	20.2	19.7
352	Farm and garden machinery .....	23.8	24.4	25.2	26.7	24.2
3523	Farm machinery and equipment .....	18.1	18.8	20.4	21.1	18.8
353	Construction and related machinery .....	40.9	41.4	46.1	47.1	45.7
3531	Construction machinery .....	13.9	13.9	14.9	15.3	13.3
3533	Oil field machinery .....	9.5	9.7	11.7	11.9	12.2
354	Metalworking machinery .....	53.0	53.7	58.9	58.8	59.6
3541	Machine tools, metal cutting types .....	8.6	8.8	10.2	10.2	10.3
3544	Special dies, tools, jigs, and fixtures .....	14.6	15.0	15.7	15.4	15.5
3545	Machine tool accessories .....	12.8	12.9	14.5	14.6	14.8
355	Special industry machinery .....	29.6	30.1	31.4	31.5	31.9
3551	Food products machinery .....	6.2	6.2	6.6	6.7	6.8
3552	Textile machinery .....	5.1	5.0	5.4	5.5	5.5
3555	Printing trades machinery .....	7.2	7.4	7.4	7.3	7.3
356	General industrial machinery .....	58.5	59.1	62.1	62.7	64.0
3561	Pumps and pumping equipment .....	10.6	10.8	11.0	11.2	11.1
3562	Ball and roller bearings .....	13.3	13.4	13.6	13.6	14.6
357	Office and computing machines .....	125.2	126.4	139.7	141.5	142.6
3573	Electronic computing equipment .....	97.6	98.6	113.1	114.2	115.4
358	Refrigeration and service machinery .....	36.5	37.6	36.3	38.2	39.4
3585	Refrigeration and heating equipment .....	23.4	24.2	23.3	24.9	26.3
359	Misc. machinery, except electrical .....	46.6	47.1	48.4	48.8	48.7
3599	Machinery, except electrical, nec .....	36.0	36.3	37.1	37.1	36.9
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b> .....	852.6	861.6	887.5	909.4	916.3
361	Electric distributing equipment .....	43.1	43.5	42.4	45.4	45.3
3612	Transformers .....	19.3	19.5	19.2	20.5	20.2
3613	Switchgear and switchboard apparatus .....	23.8	24.0	23.2	24.9	25.1
362	Electrical industrial apparatus .....	95.6	96.3	95.5	98.1	98.8
3621	Motors and generators .....	54.1	54.6	51.1	54.6	54.6
3622	Industrial controls .....	28.7	28.9	30.2	29.1	29.7
363	Household appliances .....	63.5	63.6	59.3	61.7	62.7
3632	Household refrigerators and freezers .....	10.9	10.4	9.4	10.5	10.4
3633	Household laundry equipment .....	4.8	4.8	5.0	5.1	5.0
3634	Electric housewares and fans .....	29.7	29.9	26.5	27.2	28.0
364	Electric lighting and wiring equipment .....	103.0	103.9	102.3	106.8	107.1
3641	Electric lamps .....	24.0	24.3	21.4	24.8	24.6

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]						
1972 SIC Code	Industry	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979	Oct. 1979
<b>ELECTRIC AND ELECTRONIC EQUIPMENT—Continued</b>						
3643	Current-carrying wiring devices .....	46.0	46.3	48.7	49.0	49.6
365	Radio and TV receiving equipment .....	64.1	65.3	59.3	62.4	62.5
3651	Radio and TV receiving sets .....	48.0	48.7	46.7	47.4	47.6
366	Communication equipment .....	180.2	182.4	197.9	201.5	203.5
3661	Telephone and telegraph apparatus .....	72.9	73.4	79.4	80.2	80.7
3662	Radio and TV communication equipment .....	107.3	109.0	118.5	121.3	122.8
367	Electronic components and accessories .....	245.9	248.8	274.8	275.9	279.0
3671-3	Electronic tubes .....	15.9	15.9	16.7	17.0	16.9
3674	Semiconductors and related devices .....	82.3	84.2	93.6	94.0	95.8
3679	Electronic components, nec .....	101.3	102.3	112.7	112.9	114.0
369	Misc. electrical equipment and supplies .....	57.2	57.8	56.0	57.6	57.4
3694	Engine electrical equipment .....	27.8	28.0	24.7	25.1	24.8
<b>TRANSPORTATION EQUIPMENT</b>						
37	Motor vehicles and equipment .....	307.3	312.6	304.6	319.5	318.5
371	Motor vehicles and equipment .....	142.9	146.2	125.4	136.0	133.8
3711	Motor vehicles and car bodies .....	56.8	58.0	44.6	53.2	51.9
3713	Truck and bus bodies .....	5.4	5.4	4.7	5.7	5.6
3714	Motor vehicle parts and accessories .....	78.5	80.6	73.7	74.8	73.8
372	Aircraft and parts .....	96.0	98.3	112.5	115.0	115.8
3721	Aircraft .....	55.8	57.2	66.5	66.2	66.3
3724	Aircraft engines and engine parts .....	20.9	21.2	23.2	25.7	26.0
3728	Aircraft equipment, nec .....	19.3	19.9	22.8	23.1	23.5
373	Ship and boat building and repairing .....	23.4	23.5	22.4	23.8	23.5
3731	Ship building and repairing .....	14.7	14.7	15.2	16.2	15.9
374	Railroad equipment .....	5.7	5.9	6.5	6.4	6.6
376	Guided missiles, space vehicles, parts .....	18.4	18.1	21.0	21.1	21.3
3761	Guided missiles and space vehicles .....	15.2	14.9	17.4	17.4	17.6
379	Miscellaneous transportation equipment .....	15.2	14.9	9.9	10.1	10.4
<b>INSTRUMENTS AND RELATED PRODUCTS</b>						
38	Engineering and scientific instruments .....	281.9	283.5	296.1	295.1	297.1
381	Measuring and controlling devices .....	20.2	20.3	22.5	22.7	23.1
382	Environmental controls .....	93.2	93.1	100.1	100.2	100.6
3823	Process control instruments .....	23.5	23.3	23.6	23.7	23.7
3825	Instruments to measure electricity .....	16.0	16.4	16.5	16.2	16.9
383	Optical instruments and lenses .....	39.1	39.1	43.8	43.7	43.3
384	Medical instruments and supplies .....	9.8	10.0	11.3	11.6	11.8
3841	Surgical and medical instruments .....	75.5	76.2	77.8	77.5	79.0
3842	Surgical appliances and supplies .....	33.9	34.5	35.3	35.4	36.0
385	Ophthalmic goods .....	33.0	33.3	34.5	34.4	35.0
386	Photographic equipment and supplies .....	25.5	25.5	26.1	26.2	26.3
387	Watches, clocks, and watchcases .....	37.6	38.1	39.7	38.1	38.3
		20.1	20.3	18.6	18.8	18.0
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>						
39	Jewelry, silverware, and plated ware .....	227.5	231.4	218.2	222.4	225.3
391	Musical instruments .....	31.2	32.3	28.1	28.8	29.5
393	Toys and sporting goods .....	12.3	12.1	10.9	10.8	10.8
394	Dolls, games, toys, and children's vehicles .....	71.8	72.7	68.7	71.2	72.9
3942, 4	Sporting and athletic goods, nec .....	41.8	42.8	38.6	40.6	42.0
3949	Pens, pencils, office and art supplies .....	30.0	29.9	30.1	30.6	30.9
395	Costume jewelry and notions .....	21.1	21.4	22.9	23.4	23.4
396	Miscellaneous manufactures .....	38.7	40.1	35.4	35.8	35.6
399		52.4	52.8	52.2	52.4	53.1
<b>NONDURABLE GOODS</b>						
<b>FOOD AND KINDRED PRODUCTS</b>						
20	Meat products .....	556.7	527.0	553.7	558.4	535.5
201	Meat packing plants .....	109.7	110.9	118.2	118.2	119.5
2011	Sausages and other prepared meats .....	27.3	27.3	28.8	28.7	28.8
2013	Poultry dressing plants .....	21.0	21.2	21.3	20.9	21.0
2016	Dairy products .....	55.0	55.6	61.2	61.5	62.0
202	Fluid milk .....	37.9	37.2	39.1	38.0	37.8
2026	Preserved fruits and vegetables .....	19.3	19.1	19.5	19.2	19.2
203	Canned specialties .....	157.2	123.0	144.6	149.9	119.4
2032	Canned fruits and vegetables .....	10.0	9.8	9.0	9.6	9.2
2033	Frozen fruits and vegetables .....	77.2	43.1	72.2	75.6	45.8
2037	Grain mill products .....	29.1	29.7	26.5	27.8	27.7
204	Bakery products .....	29.2	29.1	29.5	29.2	29.1
205	Bread, cake, and related products .....	63.4	63.3	62.2	62.1	63.2
2051	Cookies and crackers .....	42.5	42.5	42.0	41.9	41.9
2052	Sugar and confectionery products .....	20.9	20.8	20.2	20.2	21.3
206	Fats and oils .....	43.1	47.0	43.4	45.0	48.1
207	Beverages .....	5.0	5.2	5.1	5.3	5.4
208	Malt beverages .....	36.1	36.1	37.7	38.6	39.3
2082	Bottled and canned soft drinks .....	5.8	5.7	6.5	6.6	6.5
2086	Misc. foods and kindred products .....	16.5	16.6	17.8	17.8	17.9
209		75.1	75.2	73.9	72.1	73.7
<b>TOBACCO MANUFACTURES</b>						
21	Cigarettes .....	28.7	29.4	25.7	27.6	27.8
211		13.5	13.6	13.7	13.8	13.7

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979	Oct. 1979
22	<b>TEXTILE MILL PRODUCTS</b>	427.8	427.8	423.7	424.2	424.5
221	Weaving mills, cotton	63.2	63.5	65.3	65.5	65.7
222	Weaving mills, synthetics	50.4	50.8	51.6	51.4	51.9
223	Weaving and finishing mills, wool	8.1	8.1	8.3	8.3	8.3
224	Narrow fabric mills	15.2	15.3	14.9	15.2	15.2
225	Knitting mills	157.1	155.9	150.9	149.6	149.2
2251	Women's hosiery, except socks	22.2	22.8	23.4	23.5	23.9
2252	Hosiery, nec	25.6	25.6	25.2	24.0	24.1
2253	Knit outerwear mills	59.8	58.1	54.5	54.4	53.9
2254	Knit underwear mills	25.3	25.4	25.2	25.2	25.1
2257	Circular knit fabric mills	14.1	14.0	12.9	12.8	12.7
226	Textile finishing, except wool	23.5	23.2	23.0	23.4	23.6
2261	Finishing plants, cotton	10.2	10.3	10.1	10.1	10.2
2262	Finishing plants, synthetic	6.4	5.8	6.2	6.4	6.4
227	Floor covering mills	25.1	25.4	25.0	25.2	24.9
228	Yarn and thread mills	64.3	64.7	64.6	65.0	65.2
2281	Yarn mills, except wool	40.6	41.3	41.5	41.6	41.7
2282	Throwing and winding mills	12.6	12.7	12.3	12.5	12.5
229	Miscellaneous textile goods	20.9	20.9	20.1	20.6	20.5
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,095.2	1,095.8	1,059.0	1,060.3	1,068.0
231	Men's and boys' suits and coats	71.1	70.4	66.2	64.4	63.7
232	Men's and boys' furnishings	312.2	309.6	311.2	309.8	311.8
2321	Men's and boys' shirts and nightwear	95.0	95.2	93.5	93.5	93.5
2327	Men's and boys' separate trousers	66.2	65.9	65.8	65.4	66.1
2328	Men's and boys' work clothing	81.3	79.7	85.9	84.2	85.6
233	Women's and misses' outerwear	384.5	388.0	369.9	371.1	375.6
2331	Women's and misses' blouses and waists	54.0	54.7	52.6	52.0	52.7
2335	Women's and misses' dresses	151.6	153.1	145.9	146.4	147.2
2337	Women's and misses' suits and coats	56.7	55.4	55.8	54.7	54.9
2339	Women's and misses' outerwear, nec	122.2	124.8	115.6	118.0	120.8
234	Women's and children's undergarments	81.3	81.0	78.9	78.7	78.6
2341	Women's and children's underwear	65.0	64.7	63.1	63.1	63.0
2342	Brassieres and allied garments	16.3	16.3	15.8	15.6	15.6
236	Children's outerwear	59.5	59.6	56.7	56.3	55.3
2361	Children's dresses and blouses	23.5	23.9	21.5	21.9	22.2
238	Misc. apparel and accessories	47.5	47.1	44.5	45.0	44.8
239	Misc. fabricated textile products	126.0	126.9	118.6	121.7	124.9
2391	Curtains and draperies	25.1	25.0	24.4	24.8	25.3
2392	House furnishings, nec	33.5	33.6	33.1	33.4	34.3
2396	Automotive and apparel trimmings	19.8	20.2	16.1	18.8	19.5
26	<b>PAPER AND ALLIED PRODUCTS</b>	161.1	160.7	166.4	165.5	166.1
261, 2,6	Paper and pulp mills	24.7	23.6	27.4	26.5	26.8
262	Paper mills, except building paper	21.9	20.8	24.5	23.6	23.6
263	Paperboard mills	6.0	6.1	6.6	6.4	6.5
264	Misc. converted paper products	78.4	78.2	80.3	79.9	79.6
265	Paperboard containers and boxes	52.0	52.8	52.1	52.7	53.2
27	<b>PRINTING AND PUBLISHING</b>	457.2	463.3	487.5	490.5	495.5
271	Newspapers	141.6	144.6	154.1	154.7	156.9
272	Periodicals	48.5	49.1	51.2	50.6	51.0
273	Books	51.3	52.2	54.1	53.9	54.0
274	Miscellaneous publishing	25.5	25.3	26.4	25.7	25.9
275	Commercial printing	122.0	123.4	127.6	131.7	133.0
2751	Commercial printing, letterpress	55.8	55.9	56.6	58.9	59.4
2752	Commercial printing, lithographic	61.3	62.6	65.4	67.2	67.9
276	Manifold business forms	14.2	14.2	15.7	15.9	15.8
278	Blankbooks and bookbinding	32.2	32.7	35.0	34.8	35.4
279	Printing trade services	8.4	8.6	9.2	9.2	9.4
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	263.7	264.4	275.5	274.3	275.5
281	Industrial inorganic chemicals	22.9	23.1	25.3	25.1	25.2
2819	Industrial inorganic chemicals, nec	15.6	15.7	16.7	16.6	16.5
282	Plastics materials and synthetics	44.9	44.6	47.9	47.2	47.1
2821	Plastics materials and resins	10.1	10.3	11.5	11.2	11.3
2824	Organic fibers, noncellulosic	26.2	26.0	26.8	26.6	26.4
283	Drugs	74.8	75.7	79.3	78.8	79.0
2834	Pharmaceutical preparations	63.6	64.4	67.3	67.2	67.3
284	Soap, cleaners, and toilet goods	57.4	57.2	55.8	56.5	57.2
2841	Soap and other detergents	9.5	9.5	9.2	9.2	9.1
2844	Toilet preparations	34.8	34.5	33.2	33.9	34.6
285	Paints and allied products	12.6	12.6	13.3	13.1	13.1
286	Industrial organic chemicals	23.8	23.8	24.5	24.3	24.5
2861,9	Gum, wood, and industrial organic chemicals, nec	19.1	19.3	19.6	19.3	19.4
287	Agricultural chemicals	9.1	9.1	10.0	10.2	9.9
289	Miscellaneous chemical products	18.2	18.3	19.4	19.1	19.5

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979	Oct. 1979
29	PETROLEUM AND COAL PRODUCTS .....	25.0	24.8	27.7	27.6	27.9
291	Petroleum refining .....	20.2	19.9	22.3	22.3	22.5
30	RUBBER AND MISC. PLASTICS PRODUCTS .....	266.4	270.5	269.5	269.2	270.3
301	Tires and inner tubes .....	12.3	12.3	11.9	11.7	11.6
302	Rubber and plastics footwear .....	13.8	14.2	13.0	13.2	13.3
303,4	Reclaimed rubber, and rubber and plastics hose and belting .....	6.3	6.4	6.1	6.1	6.0
306	Fabricated rubber products, nec .....	39.7	40.3	40.7	40.0	39.9
307	Miscellaneous plastics products .....	194.3	197.3	197.8	198.2	199.5
31	LEATHER AND LEATHER PRODUCTS .....	157.4	156.5	148.8	148.0	148.2
311	Leather tanning and finishing .....	3.2	3.2	3.0	2.8	2.8
314	Footwear, except rubber .....	106.2	104.5	98.2	97.2	96.6
3143	Men's footwear, except athletic .....	40.8	40.2	35.5	35.2	34.8
3144	Women's footwear, except athletic .....	43.9	43.0	43.2	42.2	41.7
316	Luggage .....	10.0	9.9	9.6	9.6	10.0
317	Handbags and personal leather goods .....	23.3	23.9	24.5	24.6	24.9
	TRANSPORTATION AND PUBLIC UTILITIES .....	1,154	1,170	1,232	1,256	1,260
41	LOCAL AND INTERURBAN PASSENGER TRANSIT .....	55.6	57.5	35.2	65.1	64.5
411	Local and suburban transportation .....	9.3	9.1	10.8	11.5	11.7
412	Taxis .....	7.0	7.2	6.7	7.5	7.5
413	Intercity highway transportation .....	4.6	4.5	5.2	5.1	5.0
415	School buses .....	32.3	34.2	10.6	38.4	37.8
42	TRUCKING AND WAREHOUSING .....	145.9	147.8	158.4	158.2	160.0
421,3	Trucking and trucking terminals .....	129.5	130.5	141.6	141.0	141.1
422	Public warehousing .....	16.4	17.3	16.8	17.2	18.9
44	WATER TRANSPORTATION .....	18.1	17.9	20.3	20.2	19.7
45	TRANSPORTATION BY AIR .....	125.7	126.2	137.9	136.3	137.4
451,2	Air transportation .....	119.0	119.4	130.4	128.7	129.7
46	PIPE LINES, EXCEPT NATURAL GAS .....	2.0	2.1	2.2	2.3	2.2
47	TRANSPORTATION SERVICES .....	78.4	78.7	87.8	88.2	89.1
48	COMMUNICATION .....	574.8	583.1	621.5	618.6	619.1
481	Telephone communication .....	505.3	512.5	543.6	540.5	539.9
483	Radio and television broadcasting .....	54.1	54.8	60.5	60.7	61.3
49	ELECTRIC, GAS, AND SANITARY SERVICES .....	133.1	133.7	146.1	144.3	144.9
491	Electric services .....	59.1	59.6	65.4	65.1	65.7
492	Gas production and distribution .....	33.7	33.7	36.6	35.7	35.4
493	Combination utility services .....	31.3	31.2	34.0	33.4	33.7
495	Sanitary services .....	4.4	4.5	4.9	5.0	5.1
	WHOLESALE AND RETAIL TRADE .....	8,383	8,452	8,635	8,740	8,798
50,51	WHOLESALE TRADE .....	1,247	1,278	1,316	1,323	1,339
50	WHOLESALE TRADE-DURABLE GOODS .....	677	688	728	728	733
501	Motor vehicles and automotive equipment .....	90.0	90.8	94.2	94.4	94.1
502	Furniture and home furnishings .....	35.9	36.3	37.9	38.6	38.9
503	Lumber and construction materials .....	29.5	29.9	32.3	32.4	32.9
504	Sporting goods, toys, and hobby goods .....	22.0	22.6	22.0	22.0	22.4
506	Metals and minerals, except petroleum .....	26.3	26.6	28.4	28.3	28.7
506	Electrical goods .....	109.3	110.4	115.9	116.7	117.5
507	Hardware, plumbing, and heating equipment .....	62.6	63.8	68.4	67.5	68.4
508	Machinery, equipment, and supplies .....	253.7	258.3	280.7	279.3	280.6
509	Miscellaneous durable goods .....	47.9	49.0	48.3	48.9	49.1
51	WHOLESALE TRADE-NONDURABLE GOODS .....	570	590	588	595	606
511	Paper and paper products .....	39.0	39.5	41.5	40.7	41.7
512	Drugs, proprietaries, and sundries .....	59.8	60.7	64.9	64.8	66.5
513	Apparel, piece goods, and notions .....	79.5	80.6	81.6	82.5	83.9
514	Groceries and related products .....	148.5	151.8	146.3	150.0	148.6
516	Chemicals and allied products .....	28.8	28.7	30.4	30.2	30.4
517	Petroleum and petroleum products .....	47.9	47.5	49.4	48.8	49.4
518	Beer, wine, and distilled beverages .....	19.4	19.7	21.1	21.1	21.4
519	Miscellaneous nondurable goods .....	109.4	114.2	118.5	120.0	123.6

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979	Oct. 1979
52-59	RETAIL TRADE .....	7,136	7,174	7,319	7,417	7,459
52	BUILDING MATERIALS AND GARDEN SUPPLIES .....	148.5	150.3	152.4	155.1	158.8
521	Lumber and other building materials .....	60.4	60.2	62.3	62.8	63.8
525	Hardware stores .....	48.9	49.6	52.9	53.2	54.6
53	GENERAL MERCHANDISE STORES .....	1,548.2	1,572.6	1,461.4	1,497.5	1,523.9
531	Department stores .....	1,234.2	1,258.2	1,145.9	1,178.0	1,205.0
533	Variety stores .....	226.6	225.0	216.0	217.5	218.0
539	Misc. general merchandise stores .....	87.4	89.4	99.5	102.0	100.9
54	FOOD STORES .....	911.9	915.4	941.5	953.7	970.2
541	Grocery stores .....	751.5	762.1	798.0	806.7	820.2
542	Meat markets and freezer provisioners .....	14.5	15.4	17.1	17.2	17.1
546	Retail bakeries .....	75.1	74.9	72.7	74.7	75.9
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS .....	303.8	307.0	315.9	315.4	317.3
551,2	New and used car dealers .....	122.0	123.5	125.2	124.6	125.5
553	Auto and home supply stores .....	46.8	46.1	47.8	47.5	47.4
554	Gasoline service stations .....	119.9	122.4	125.9	126.8	127.9
56	APPAREL AND ACCESSORY STORES .....	614.7	627.3	632.7	641.7	658.3
561	Men's and boys' clothing and furnishings .....	57.4	59.6	60.1	61.1	61.6
562	Women's ready-to-wear stores .....	301.6	310.5	304.3	310.5	318.1
565	Family clothing stores .....	122.2	122.6	129.9	130.7	134.2
566	Shoe stores .....	68.4	69.5	73.4	73.3	76.3
57	FURNITURE AND HOME FURNISHING STORES .....	185.7	188.1	196.3	200.7	202.8
571	Furniture and home furnishings .....	125.9	127.0	127.7	129.2	130.4
572	Household appliance stores .....	23.3	23.5	24.2	24.4	24.7
573	Radio, television, and music stores .....	36.5	37.6	44.4	47.1	47.7
58	EATING AND DRINKING PLACES .....	2,484.7	2,434.9	2,651.2	2,663.1	2,616.5
59	MISCELLANEOUS RETAIL .....	948.5	978.0	967.3	989.7	1,011.4
591	Drug stores and proprietary stores .....	290.2	293.1	310.0	312.1	314.6
592	Liquor stores .....	27.2	28.3	33.7	34.5	34.5
594	Miscellaneous shopping goods stores .....	325.3	337.0	331.6	343.1	349.1
596	Nonstore retailers .....	157.0	165.7	141.9	147.6	157.0
598	Fuel and ice dealers .....	21.3	21.8	21.6	21.8	22.5
599	Retail stores, nec .....	106.1	110.7	109.0	110.7	114.0
	FINANCE, INSURANCE, AND REAL ESTATE .....	2,749	2,764	2,932	2,916	2,932
60	BANKING .....	995.7	1,000.7	1,060.5	1,053.7	1,057.6
602	Commercial and stock savings banks .....	917.1	921.4	975.9	969.7	973.3
61	CREDIT AGENCIES OTHER THAN BANKS .....	337.8	340.5	365.6	365.0	368.1
612	Savings and loan associations .....	161.3	162.8	175.9	176.0	177.3
614	Personal credit institutions .....	114.9	115.7	124.2	124.1	126.1
62	SECURITY, COMMODITY BROKERS, AND SERVICES .....	74.2	75.0	82.0	82.4	82.9
621	Security brokers and dealers .....	58.5	59.3	64.9	65.3	65.8
63	INSURANCE CARRIERS .....	700.9	704.0	738.3	736.1	739.0
631	Life insurance .....	270.2	269.9	280.9	278.9	280.8
632	Medical service and health insurance .....	98.3	98.8	100.2	100.2	100.7
633	Fire, marine, and casualty insurance .....	282.6	285.2	304.7	304.9	305.1
64	INSURANCE AGENTS, BROKERS, AND SERVICE .....	249.5	252.0	267.6	264.6	266.8
65	REAL ESTATE .....	322.6	324.6	344.4	341.2	343.3
651	Real estate operators and lessors .....	130.5	130.8	136.4	134.2	134.4
653	Real estate agents and managers .....	143.7	144.8	159.3	158.1	159.5
655	Subdividers and developers .....	32.0	31.9	31.3	31.6	31.9
66	COMBINED REAL ESTATE, INSURANCE, ETC .....	17.0	16.7	17.0	16.7	16.5
67	HOLDING AND OTHER INVESTMENT OFFICES .....	51.0	50.8	56.8	56.6	57.5
-	SERVICES .....	9,478	9,540	10,013	10,025	10,095
70	HOTELS AND OTHER LODGING PLACES .....	553.0	526.6	642.5	601.1	572.5
701	Hotels, motels, and tourist courts .....	529.7	506.9	595.5	576.5	550.5



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Sept. 1978	Oct. 1978	Aug. 1979	Sept. 1979	Oct. 1979
72	<b>PERSONAL SERVICES</b> .....	604.2	607.6	600.0	603.6	607.7
721	Laundry, cleaning, and garment services .....	222.8	225.2	218.0	219.7	220.6
723	Beauty shops .....	248.5	248.0	249.8	247.5	248.0
726	Funeral service and crematories .....	17.9	18.0	18.9	19.0	19.1
73	<b>BUSINESS SERVICES</b> .....	1,134.5	1,155.2	1,227.9	1,249.6	1,267.1
731	Advertising .....	65.4	65.3	69.3	70.0	70.3
732	Credit reporting and collection .....	58.4	59.0	56.5	55.4	55.5
733	Mailing, reproduction, stenographic .....	51.1	52.4	49.7	53.2	54.8
734	Services to buildings .....	162.6	162.9	181.3	185.9	185.6
736	Personnel supply services .....	268.9	274.9	291.0	298.8	304.7
737	Computer and data processing services .....	105.3	108.0	122.1	123.8	126.6
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	91.1	92.7	93.9	94.2	95.0
753	Automotive repair shops .....	42.3	43.1	42.5	42.2	42.6
76	<b>MISCELLANEOUS REPAIR SERVICES</b> ....	49.7	50.7	58.3	59.5	60.2
78	<b>MOTION PICTURES</b> .....	82.5	79.9	85.3	82.4	78.4
781	Motion picture production and services .....	22.3	23.1	22.4	23.3	23.3
783	Motion picture theaters .....	54.2	50.8	57.0	53.1	49.1
79	<b>AMUSEMENT AND RECREATION SERVICES</b> ....	304.0	271.2	325.5	301.3	265.8
80	<b>HEALTH SERVICES</b> .....	3,940.0	3,954.7	4,139.1	4,139.6	4,163.2
801	Offices of physicians .....	537.5	540.7	565.8	563.5	569.5
802	Offices of dentists .....	257.8	257.8	271.9	272.8	273.6
805	Nursing and personal care facilities .....	831.5	833.5	887.5	884.3	888.1
806	Hospitals .....	2,068.5	2,075.4	2,149.9	2,152.8	2,163.4
81	<b>LEGAL SERVICES</b> .....	307.7	310.4	332.1	331.3	334.3
82	<b>EDUCATIONAL SERVICES</b> .....	504.2	557.8	441.5	514.7	576.3
821	Elementary and secondary schools .....	140.8	145.9	124.2	145.2	152.2
822	Colleges and universities .....	304.0	350.3	255.5	305.9	357.4
83	<b>SOCIAL SERVICES</b> .....	722.8	730.2	786.6	764.1	773.4
89	<b>MISCELLANEOUS SERVICES</b> .....	259.5	262.8	290.0	289.9	292.3
891	Engineering and architectural services .....	92.1	92.9	104.5	103.9	104.7
893	Accounting, auditing, and bookkeeping .....	115.5	117.7	127.6	128.5	129.4
	<b>GOVERNMENT</b> .....	6,949	7,267	6,723	7,118	7,486
	<b>FEDERAL GOVERNMENT</b> .....	865	866	899	866	871
	<b>STATE AND LOCAL GOVERNMENT</b> .....	6,084	6,401	5,824	6,252	6,615
	State government .....	1,469.8	1,538.0	1,422.1	1,518.3	1,609.8
	Hospitals .....	310.8	315.3	328.3	336.9	335.4
	State education .....	570.8	643.1	508.1	602.3	703.2
	General administration including executive, legislative, and judicial functions .....	400.3	393.8	386.7	385.7	382.8
	Local government .....	4,614.1	4,862.6	4,402.2	4,733.9	5,005.1
	Transportation and public utilities .....	77.9	79.2	88.3	89.7	90.2
	Hospitals .....	396.4	397.1	422.5	423.6	425.2
	Local education .....	3,052.1	3,321.7	2,681.6	3,090.2	3,383.3
	General administration including executive, legislative, and judicial functions .....	896.1	880.9	995.2	925.7	907.3

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>TOTAL</b> .....	88,133	88,433	88,700	89,039	89,036	89,398	89,626	89,713	89,762	89,803	89,982	90,109	90,426
<b>GOODS-PRODUCING</b> .....	26,272	26,382	26,448	26,627	26,565	26,651	26,674	26,723	26,599	26,593	26,572	26,542	26,712
<b>MINING</b> .....	922	927	937	940	940	944	949	956	968	973	979	984	999
<b>CONSTRUCTION</b> .....	4,469	4,497	4,486	4,614	4,559	4,648	4,662	4,688	4,674	4,671	4,694	4,712	4,759
<b>MANUFACTURING</b> .....	20,881	20,958	21,025	21,073	21,066	21,059	21,063	21,079	20,957	20,949	20,899	20,846	20,954
<b>DURABLE GOODS</b> .....	12,583	12,640	12,715	12,751	12,752	12,739	12,760	12,786	12,714	12,737	12,650	12,597	12,660
Lumber and wood products .....	765	768	768	769	761	762	757	753	752	758	760	752	742
Furniture and fixtures .....	494	497	496	493	490	487	485	488	484	480	482	483	484
Stone, clay, and glass products .....	710	709	712	718	714	715	715	711	710	708	709	705	707
Primary metal industries .....	1,247	1,250	1,256	1,259	1,260	1,254	1,257	1,256	1,245	1,236	1,226	1,223	1,222
Fabricated metal products .....	1,718	1,725	1,733	1,732	1,732	1,730	1,737	1,730	1,714	1,716	1,723	1,725	1,726
Machinery, except electrical .....	2,404	2,419	2,437	2,450	2,466	2,471	2,484	2,500	2,492	2,496	2,455	2,445	2,456
Electric and electronic equipment .....	2,050	2,065	2,079	2,093	2,101	2,106	2,124	2,131	2,092	2,117	2,125	2,125	2,151
Transportation equipment .....	2,063	2,069	2,094	2,094	2,084	2,077	2,057	2,073	2,079	2,086	2,025	1,996	2,022
Instruments and related products .....	674	679	682	685	689	688	693	694	695	692	696	694	700
Miscellaneous manufacturing ind. ....	458	459	458	458	455	449	451	450	451	448	449	449	450
<b>NONDURABLE GOODS</b> .....	8,298	8,318	8,310	8,322	8,314	8,320	8,303	8,293	8,243	8,212	8,249	8,249	8,294
Food and kindred products .....	1,736	1,735	1,729	1,736	1,728	1,725	1,720	1,707	1,696	1,691	1,707	1,711	1,722
Tobacco manufactures .....	69	68	68	69	69	70	69	68	64	65	65	60	62
Textile mill products .....	899	900	899	897	892	893	892	892	886	884	887	887	892
Apparel and other textile products .....	1,333	1,339	1,327	1,324	1,325	1,324	1,312	1,324	1,302	1,294	1,299	1,291	1,300
Paper and allied products .....	703	706	711	716	717	714	715	718	717	714	715	714	716
Printing and publishing .....	1,218	1,225	1,229	1,232	1,234	1,236	1,242	1,250	1,247	1,245	1,252	1,262	1,265
Chemicals and allied products .....	1,106	1,109	1,108	1,108	1,111	1,114	1,119	1,116	1,111	1,110	1,113	1,115	1,126
Petroleum and coal products .....	211	211	212	213	213	213	212	212	213	215	217	217	217
Rubber and misc. plastic products .....	770	774	779	780	781	784	775	777	764	751	751	750	751
Leather and leather products .....	253	251	248	247	244	247	247	229	243	243	243	242	243
<b>SERVICE-PRODUCING</b> .....	61,861	62,051	62,252	62,412	62,471	62,747	62,952	62,990	63,163	63,210	63,410	63,567	63,714
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	5,054	5,071	5,094	5,116	5,024	5,130	5,190	5,169	5,194	5,180	5,218	5,227	5,224
<b>WHOLESALE AND RETAIL TRADE</b> .....	19,858	19,965	20,016	20,054	20,088	20,129	20,116	20,122	20,126	20,169	20,243	20,303	20,300
<b>WHOLESALE TRADE</b> .....	5,077	5,102	5,118	5,134	5,138	5,156	5,180	5,182	5,185	5,190	5,209	5,233	5,246
<b>RETAIL TRADE</b> .....	14,781	14,863	14,898	14,920	14,950	14,973	14,936	14,940	14,941	14,979	15,034	15,070	15,054
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,847	4,868	4,884	4,899	4,915	4,936	4,958	4,972	5,003	4,997	5,018	5,041	5,070
<b>SERVICES</b> .....	16,630	16,670	16,763	16,833	16,880	16,954	17,051	17,092	17,141	17,191	17,257	17,314	17,385
<b>GOVERNMENT</b> .....	15,472	15,477	15,495	15,510	15,564	15,598	15,637	15,635	15,699	15,673	15,674	15,682	15,735
<b>FEDERAL</b> .....	2,734	2,758	2,757	2,757	2,758	2,770	2,788	2,785	2,813	2,762	2,770	2,771	2,787
<b>STATE AND LOCAL</b> .....	12,738	12,719	12,738	12,753	12,806	12,828	12,849	12,850	12,886	12,911	12,904	12,911	12,948

p=preliminary.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1978			1979									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
<b>TOTAL</b> .....	35,748	35,951	36,074	36,271	36,385	36,517	36,669	36,789	36,916	37,102	37,262	37,144	37,324
<b>GOODS-PRODUCING</b> .....	6,735	6,781	6,827	6,865	6,877	6,899	6,920	6,939	6,960	6,971	6,907	6,906	6,942
<b>MINING</b> .....	81	82	83	84	85	87	87	89	91	92	94	94	94
<b>CONSTRUCTION</b> .....	342	343	345	350	353	357	362	367	374	379	380	383	385
<b>MANUFACTURING</b> ..	6,312	6,356	6,399	6,431	6,439	6,455	6,471	6,483	6,495	6,500	6,433	6,429	6,463
<b>DURABLE GOODS</b> .....	2,960	2,985	3,012	3,029	3,053	3,069	3,082	3,087	3,102	3,109	3,068	3,082	3,094
Lumber and wood products .....	109	110	112	112	113	114	114	114	113	113	113	114	115
Furniture and fixtures .....	144	145	146	146	146	145	145	144	145	146	145	143	142
Stone, clay, and glass products .....	130	130	132	131	132	134	134	134	135	134	133	134	134
Primary metal industries .....	126	127	129	130	131	131	134	134	138	137	135	134	134
Fabricated metal products .....	349	352	355	357	360	361	361	362	363	363	360	359	362
Machinery, except electrical .....	444	446	453	456	460	464	469	473	473	479	478	482	482
Electric and electronic equipment .....	849	855	863	870	877	884	887	892	902	907	888	898	903
Transportation equipment .....	309	315	318	320	326	326	326	326	323	321	307	312	314
Instruments and related products .....	282	286	286	289	291	293	294	295	296	296	296	295	296
Miscellaneous manufacturing ind. ....	218	219	218	218	217	217	218	213	214	213	213	211	212
<b>NONDURABLE GOODS</b> .....	3,352	3,371	3,387	3,402	3,386	3,386	3,389	3,396	3,393	3,391	3,365	3,347	3,369
Food and kindred products .....	493	503	509	512	507	509	508	511	511	502	495	488	501
Tobacco manufactures .....	26	25	26	25	25	25	26	26	25	24	23	24	24
Textile mill products .....	424	424	425	425	424	423	422	422	424	422	422	421	421
Apparel and other textile products .....	1,081	1,080	1,081	1,087	1,075	1,071	1,072	1,072	1,062	1,073	1,056	1,049	1,053
Paper and allied products .....	159	160	161	163	163	165	165	164	164	165	164	164	164
Printing and publishing .....	462	467	470	474	476	477	479	479	482	487	488	491	494
Chemicals and allied products .....	262	264	266	268	268	268	269	271	273	274	271	271	273
Petroleum and coal products .....	25	25	25	25	25	25	26	26	27	27	27	28	28
Rubber and misc. plastics products .....	264	269	271	271	273	273	273	275	275	279	272	263	264
Leather and leather products .....	156	154	153	152	150	150	149	150	150	138	147	148	147
<b>SERVICE-PRODUCING</b> .....	29,013	29,170	29,247	29,406	29,508	29,618	29,749	29,850	29,956	30,131	30,355	30,238	30,382
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,163	1,170	1,179	1,195	1,205	1,209	1,202	1,214	1,233	1,236	1,243	1,251	1,252
<b>WHOLESALE AND RETAIL TRADE</b> ..	8,400	8,449	8,423	8,526	8,552	8,595	8,627	8,673	8,670	8,684	8,695	8,713	8,744
<b>WHOLESALE TRADE</b> .....	1,262	1,271	1,279	1,286	1,290	1,297	1,297	1,307	1,310	1,317	1,317	1,318	1,322
<b>RETAIL TRADE</b> .....	7,138	7,178	7,144	7,240	7,262	7,298	7,330	7,366	7,360	7,367	7,378	7,395	7,422
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,767	2,787	2,802	2,817	2,826	2,837	2,850	2,862	2,880	2,892	2,912	2,916	2,935
<b>SERVICES</b> .....	9,512	9,581	9,640	9,672	9,710	9,754	9,798	9,846	9,898	9,939	10,003	10,015	10,065
<b>GOVERNMENT</b> ..	7,171	7,183	7,203	7,196	7,215	7,223	7,272	7,255	7,275	7,380	7,502	7,343	7,386
<b>FEDERAL</b> .....	877	874	866	863	862	862	861	866	875	874	891	878	882
<b>STATE AND LOCAL</b> .....	6,294	6,309	6,337	6,333	6,353	6,361	6,411	6,389	6,400	6,506	6,611	6,465	6,504

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

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	59,470	59,688	59,883	60,161	60,051	60,326	60,495	60,544	60,475	60,528	60,668	60,757	60,986
<b>GOODS-PRODUCING</b> .....	19,289	19,372	19,409	19,555	19,475	19,542	19,537	19,560	19,415	19,416	19,371	19,323	19,490
<b>MINING</b> .....	697	700	707	707	708	708	709	713	725	730	733	734	745
<b>CONSTRUCTION</b> .....	3,571	3,587	3,574	3,695	3,633	3,722	3,732	3,757	3,734	3,729	3,744	3,751	3,801
<b>MANUFACTURING</b> .....	15,021	15,085	15,128	15,153	15,134	15,112	15,096	15,090	14,956	14,957	14,894	14,838	14,944
<b>DURABLE GOODS</b> .....	9,042	9,085	9,138	9,158	9,146	9,119	9,123	9,124	9,044	9,066	8,972	8,918	8,980
Lumber and wood products .....	654	656	655	657	649	649	646	643	642	646	649	640	629
Furniture and fixtures .....	406	408	406	404	401	397	395	398	394	392	394	394	395
Stone, clay, and glass products .....	563	562	564	569	563	564	565	560	558	557	557	554	555
Primary metal industries .....	985	987	992	995	995	987	991	988	976	970	960	955	955
Fabricated metal products .....	1,306	1,310	1,317	1,315	1,314	1,310	1,316	1,309	1,291	1,295	1,298	1,300	1,300
Machinery, except electrical .....	1,585	1,595	1,610	1,615	1,625	1,628	1,632	1,641	1,628	1,637	1,601	1,598	1,607
Electric and electronic equipment .....	1,346	1,360	1,369	1,378	1,384	1,384	1,393	1,395	1,359	1,375	1,380	1,375	1,392
Transportation equipment .....	1,434	1,439	1,456	1,455	1,446	1,438	1,417	1,426	1,431	1,433	1,371	1,343	1,381
Instruments and related products .....	414	418	421	422	423	421	424	422	421	420	421	418	423
Miscellaneous manufacturing ind. ....	349	350	348	348	346	341	344	342	344	341	341	341	343
<b>NONDURABLE GOODS</b> .....	5,979	6,000	5,990	5,995	5,988	5,993	5,973	5,966	5,912	5,891	5,922	5,920	5,964
Food and kindred products .....	1,189	1,191	1,184	1,191	1,187	1,184	1,181	1,170	1,157	1,153	1,169	1,174	1,186
Tobacco manufactures .....	55	55	54	55	56	56	55	54	50	52	52	46	49
Textile mill products .....	783	785	783	781	777	778	777	778	771	769	772	774	778
Apparel and other textile products .....	1,142	1,149	1,137	1,131	1,131	1,133	1,122	1,130	1,110	1,104	1,109	1,102	1,111
Paper and allied products .....	530	532	537	542	543	541	541	547	545	543	543	542	545
Printing and publishing .....	685	690	694	696	696	700	701	707	705	703	708	715	716
Chemicals and allied products .....	635	637	636	635	636	636	640	639	634	635	637	636	645
Petroleum and coal products .....	138	138	139	139	140	139	139	138	139	140	140	140	141
Rubber and misc. plastics products .....	606	609	614	614	614	616	607	609	595	585	585	586	587
Leather and leather products .....	216	214	212	211	208	210	210	194	206	207	207	205	206
<b>SERVICE-PRODUCING</b> .....	40,181	40,316	40,474	40,606	40,576	40,784	40,958	40,984	41,060	41,112	41,297	41,434	41,496
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,235	4,248	4,268	4,283	4,197	4,293	4,351	4,333	4,348	4,337	4,370	4,376	4,381
<b>WHOLESALE AND RETAIL TRADE</b> ..	17,487	17,578	17,618	17,648	17,662	17,691	17,689	17,681	17,689	17,721	17,789	17,840	17,833
<b>WHOLESALE TRADE</b> .....	4,175	4,194	4,206	4,222	4,221	4,237	4,257	4,255	4,256	4,259	4,279	4,293	4,310
<b>RETAIL TRADE</b> .....	13,312	13,384	13,412	13,426	13,441	13,454	13,432	13,426	13,433	13,462	13,510	13,547	13,523
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,690	3,705	3,716	3,729	3,743	3,756	3,777	3,788	3,804	3,794	3,804	3,816	3,839
<b>SERVICES</b> .....	14,769	14,785	14,872	14,946	14,974	15,044	15,141	15,182	15,219	15,260	15,334	15,402	15,443

<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
1976				
January.....	77.0	85.8	86.9	84.0
February.....	70.3	84.3	85.8	83.7
March.....	69.2	82.3	79.4	85.2
April.....	70.6	73.8	72.4	77.6
May.....	59.6	64.8	67.7	82.6
June.....	51.7	62.5	71.5	80.2
July.....	59.0	56.4	60.8	78.2
August.....	54.4	68.3	66.9	77.3
September.....	68.9	55.8	68.6	78.8
October.....	47.4	66.9	73.8	79.4
November.....	65.1	62.2	77.9	80.8
December.....	66.0	78.8	78.2	82.6
1977				
January.....	73.0	80.2	86.3	80.5
February.....	67.2	84.3	84.6	81.4
March.....	72.4	82.6	84.0	82.8
April.....	71.5	81.7	82.3	84.6
May.....	70.3	76.5	79.1	85.2
June.....	65.1	72.7	77.6	86.6
July.....	70.3	70.3	75.3	84.9
August.....	57.8	70.9	76.7	83.1
September.....	67.2	67.7	79.7	83.1
October.....	64.2	76.2	80.5	82.8
November.....	73.3	79.7	84.0	81.1
December.....	75.3	79.4	82.3	82.0
1978				
January.....	68.3	80.2	83.1	81.4
February.....	69.2	75.6	79.1	83.1
March.....	69.5	77.3	77.6	81.1
April.....	68.0	69.8	73.5	82.0
May.....	57.8	67.2	72.7	81.7
June.....	66.6	66.6	71.2	82.3
July.....	64.5	69.5	73.0	81.4
August.....	60.5	67.2	77.3	78.2
September.....	62.5	71.2	79.7	77.9
October.....	73.0	78.2	82.3	73.5
November.....	75.9	81.1	82.3	76.2
December.....	74.4	82.3	80.5	71.8
1979				
January.....	70.3	76.5	74.1	71.8
February.....	65.1	72.1	67.4	70.6
March.....	60.5	57.8	61.9	63.7
April.....	44.8	55.2	58.1	64.0
May.....	54.7	51.5	50.3	60.5p
June.....	57.0	58.4	46.8	60.8p
July.....	61.6	56.7	56.1	
August.....	48.8	52.0	53.8p	
September.....	46.8	52.9	61.3p	
October.....	69.8	59.6p		
November.....	59.9p	70.9p		
December.....	69.2p			

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

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
1 ALABAMA .....	1,361.7	1,365.0	1,364.0	16.2	16.0	16.3	81.6	79.9	78.6	368.2	362.5	360.7
2 Birmingham .....	357.0	359.3	360.4	9.1	9.1	9.3	23.8	22.6	22.2	70.4	67.9	68.2
3 Huntsville .....	119.1	121.0	121.1	(1)	(1)	(1)	4.3	4.5	4.3	35.2	35.3	35.6
4 Mobile .....	148.4	149.6	149.3	(1)	(1)	(1)	11.5	13.3	13.8	30.4	29.2	29.7
5 Montgomery .....	105.1	107.8	108.1	(1)	(1)	(1)	6.6	8.2	8.2	16.0	16.3	16.3
6 Tuscaloosa .....	49.4	50.0	50.0	1.1	1.4	1.4	3.0	3.1	2.9	8.9	9.3	9.0
7 ALASKA .....	160.8	167.4	(*)	5.4	5.2	(*)	10.9	12.3	(*)	9.5	11.0	(*)
8 ARIZONA .....	924.4	973.5	985.0	19.6	22.2	22.6	76.4	78.2	77.6	130.3	145.6	146.6
9 Phoenix .....	575.3	605.7	614.5	.2	.2	.2	49.0	50.6	50.4	96.6	106.6	107.6
10 Tucson .....	165.6	176.6	179.0	5.8	7.2	7.4	13.6	14.5	14.6	15.3	19.3	19.5
11 ARKANSAS .....	733.8	755.8	750.4	4.9	5.3	5.2	36.5	38.7	37.0	215.5	216.5	214.0
12 Fayetteville-Springdale .....	62.8	64.6	64.3	(1)	(1)	(1)	3.0	3.2	3.2	18.7	19.2	19.0
13 Fort Smith .....	67.6	66.4	66.1	.8	.9	.9	3.1	3.2	2.9	24.5	22.9	22.8
14 Little Rock-North Little Rock .....	173.1	179.3	178.9	(1)	(1)	(1)	9.0	9.7	9.6	31.0	31.5	31.1
15 Pine Bluff .....	31.2	32.0	31.9	(1)	(1)	(1)	2.0	2.3	2.1	6.2	6.3	6.3
16 CALIFORNIA .....	9,463.0	9,811.6	9,827.7	37.8	39.4	39.2	446.5	458.5	449.8	1,926.6	2,004.4	1,990.8
17 Anaheim-Santa Ana-Garden Grove .....	776.7	817.6	826.9	2.3	2.3	2.2	49.5	50.4	50.4	204.1	215.1	217.4
18 Bakersfield .....	123.1	126.3	126.6	10.2	10.5	10.5	7.2	7.0	7.0	9.6	9.9	10.0
19 Fresno .....	178.5	187.4	187.6	.9	.9	.9	11.9	13.3	13.3	24.2	25.7	25.1
20 Los Angeles-Long Beach .....	3,528.5	3,613.7	3,643.5	11.4	11.7	11.7	114.4	117.1	116.7	905.9	933.9	939.1
21 Modesto .....	86.6	91.1	90.4	.1	.1	.1	6.2	6.7	6.7	18.8	20.6	19.0
22 Oxnard-Simi Valley-Ventura .....	137.2	141.6	143.0	2.3	2.5	2.5	7.2	7.8	8.1	21.5	22.2	22.5
23 Riverside-San Bernardino-Ontario .....	421.0	436.8	441.2	2.3	2.5	2.5	29.3	31.0	31.0	65.3	68.1	67.8
24 Sacramento .....	385.9	403.3	405.7	.4	.4	.4	23.8	26.8	26.4	26.7	28.1	27.9
25 Salinas-Seaside-Monterey .....	85.8	86.8	86.3	.6	.6	.6	3.8	3.6	3.6	10.2	10.1	9.8
26 San Diego .....	616.9	640.0	642.4	.7	.7	.7	41.3	41.5	41.0	92.8	100.2	100.2
27 San Francisco-Oakland .....	1,518.4	1,541.3	1,551.1	2.0	2.0	2.0	72.6	74.2	73.2	202.0	205.3	203.9
28 San Jose .....	603.1	636.9	639.2	.1	.2	.2	25.4	26.0	26.0	205.4	224.6	224.4
29 Santa Barbara-Santa Maria-Lompoc .....	114.8	116.6	117.1	1.1	1.1	1.1	4.9	5.2	5.2	15.5	16.0	15.8
30 Santa Rosa .....	84.8	88.4	88.0	.4	.5	.4	5.5	5.7	5.3	13.5	15.0	14.5
31 Stockton .....	115.9	122.7	120.6	.1	.1	.1	6.1	6.5	6.6	15.3	21.4	19.6
32 Vallejo-Fairfield-Napa .....	97.2	98.7	98.6	.3	.3	.3	5.1	5.2	5.1	16.3	10.9	10.3
33 COLORADO .....	1,168.0	1,207.8	1,203.4	28.4	31.7	32.0	76.3	84.0	81.1	172.8	182.7	180.5
34 Denver-Boulder .....	740.9	767.8	766.1	15.6	17.7	18.1	46.8	52.8	50.8	117.9	123.6	123.5
35 CONNECTICUT .....	1,386.7	1,414.5	(*)	(2)	(2)	(*)	52.3	54.0	(*)	429.3	430.5	(*)
36 Bridgeport .....	165.5	167.1	167.8	(2)	(2)	(2)	5.7	6.4	6.2	64.9	66.3	66.6
37 Hartford .....	379.9	390.7	393.7	(2)	(2)	(2)	13.5	14.0	13.9	91.0	94.0	95.4
38 New Britain .....	61.8	62.8	62.9	(2)	(2)	(2)	2.2	2.4	2.3	29.2	29.7	30.0
39 New Haven-West Haven .....	190.3	191.0	191.3	(2)	(2)	(2)	6.3	6.6	6.5	45.5	43.6	43.2
40 Stamford .....	103.9	107.4	108.5	(2)	(2)	(2)	5.0	5.2	5.1	29.9	30.7	31.0
41 Waterbury .....	88.3	89.1	89.6	(2)	(2)	(2)	3.4	3.7	3.7	33.1	32.9	32.9
42 DELAWARE .....	248.4	250.2	247.9	(1)	(1)	(1)	15.5	15.0	15.0	69.8	69.0	64.8
43 Wilmington .....	216.8	219.3	216.8	(1)	(1)	(1)	14.5	14.2	14.3	65.0	64.0	60.2
44 DISTRICT OF COLUMBIA .....	590.5	596.6	599.1	(1)	(1)	(1)	15.2	15.2	15.1	15.2	15.5	15.6
45 Washington SMSA .....	1,473.0	1,486.0	1,493.8	(1)	(1)	(1)	83.2	78.0	77.4	52.1	53.6	54.1
46 FLORIDA .....	3,206.3	3,301.0	3,350.1	9.6	9.7	9.6	212.5	237.3	238.3	438.4	454.1	462.5
47 Daytona Beach .....	70.6	72.3	72.4	(1)	(1)	(1)	4.4	4.8	4.7	7.7	8.1	8.1
48 Fort Lauderdale-Hollywood .....	292.7	298.7	303.6	(1)	(1)	(1)	23.0	24.8	25.1	36.6	39.3	39.6
49 Gainesville .....	61.2	62.2	63.2	(1)	(1)	(1)	3.1	4.0	3.9	3.9	3.8	3.8
50 Jacksonville .....	282.5	285.6	287.0	(1)	(1)	(1)	15.6	15.8	15.9	32.3	32.4	32.2
51 Miami .....	655.5	667.9	678.3	(1)	(1)	(1)	31.5	38.3	38.6	97.1	97.9	98.6
52 Orlando .....	254.5	264.7	267.3	(1)	(1)	(1)	16.3	18.6	18.5	32.8	34.8	35.0
53 Pensacola .....	93.5	95.5	95.6	(1)	(1)	(1)	6.5	6.9	6.9	13.2	12.9	12.8
54 Sarasota .....	62.2	63.4	64.8	(1)	(1)	(1)	6.8	6.5	6.5	6.4	6.5	6.5
55 Tallahassee .....	67.7	70.0	71.0	(1)	(1)	(1)	3.4	3.3	3.3	2.5	2.3	2.3
56 Tampa-St. Petersburg .....	484.8	491.3	494.2	(1)	(1)	(1)	32.7	32.8	33.2	66.6	70.3	70.6
57 West Palm Beach-Boca Raton .....	177.5	183.6	188.8	(1)	(1)	(1)	16.1	17.3	17.8	24.3	27.0	27.7
58 GEORGIA .....	2,019.0	2,029.1	2,033.3	7.6	7.8	7.8	100.0	95.2	95.3	516.2	518.3	520.6
59 Albany .....	42.6	44.0	44.6	(1)	(1)	(1)	3.9	3.5	3.2	10.8	11.5	12.3
60 Atlanta .....	866.8	868.5	872.1	(1)	(1)	(1)	39.7	37.1	37.0	136.5	137.5	135.6
61 Augusta .....	120.5	121.5	121.9	(1)	(1)	(1)	7.4	6.8	6.9	36.4	36.4	36.5
62 Columbus .....	81.1	81.7	82.1	(1)	(1)	(1)	5.1	4.3	4.5	20.4	20.8	20.9
63 Macon .....	96.4	94.3	94.7	(1)	(1)	(1)	4.8	4.3	4.2	14.9	14.6	14.8

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	
71.1	73.2	72.0	275.8	277.2	279.6	58.2	58.0	58.0	194.6	199.5	199.2	296.0	298.7	299.6	1
28.6	29.0	29.0	85.9	88.3	89.1	22.8	23.2	23.1	63.1	65.1	65.4	53.3	54.1	54.1	2
2.7	2.7	2.7	22.3	23.0	23.0	3.4	3.5	3.5	17.5	18.0	17.9	33.7	34.0	34.1	3
10.9	13.5	11.3	37.3	36.7	37.6	7.0	7.2	7.3	26.6	26.1	26.0	24.7	23.6	23.6	4
4.9	5.0	5.0	24.7	24.5	24.7	6.0	6.1	6.1	18.6	19.1	19.2	28.3	28.6	28.6	5
1.7	1.6	1.7	9.8	9.5	9.6	1.7	1.7	1.7	5.9	6.1	6.1	17.3	17.3	17.6	6
15.9	17.3	(*)	28.7	29.3	(*)	7.7	7.5	(*)	27.2	29.4	(*)	55.5	55.4	(*)	7
46.4	47.0	49.4	222.5	236.0	241.8	51.0	53.6	53.9	177.4	188.7	189.6	200.8	202.2	203.5	8
28.0	27.4	29.4	149.5	158.2	162.6	39.0	40.7	40.9	113.4	120.4	121.3	99.6	101.6	102.1	9
8.3	8.7	8.8	37.7	39.4	40.3	7.3	7.9	8.0	34.4	36.0	36.3	43.2	43.6	44.1	10
42.9	45.8	45.1	161.9	165.1	164.8	30.7	32.0	31.9	105.4	113.1	112.3	136.0	139.3	140.1	11
3.3	3.4	3.4	14.8	15.1	15.2	2.2	2.3	2.3	8.4	9.0	8.8	12.4	12.4	12.4	12
3.4	3.5	3.5	14.8	14.5	14.6	2.4	2.6	2.6	11.0	11.2	11.1	7.6	7.6	7.7	13
12.4	12.7	12.7	41.3	42.0	42.0	12.0	12.3	12.4	31.9	34.7	34.5	35.5	36.4	36.6	14
3.7	4.0	4.0	6.3	6.0	6.1	1.2	1.3	1.3	4.7	4.9	4.9	7.1	7.2	7.2	15
524.1	538.1	539.9	2,217.2	2,297.3	2,317.5	566.2	592.3	593.9	2,013.2	2,131.9	2,136.0	1,731.4	1,749.7	1,760.6	16
24.8	26.2	26.5	190.1	200.9	203.7	48.5	53.7	54.0	155.0	165.1	166.5	102.4	103.9	106.2	17
7.6	7.7	7.8	31.8	32.9	33.2	4.5	4.6	4.5	20.9	21.5	21.4	31.3	32.2	32.2	18
10.4	10.7	10.7	47.6	50.8	50.7	9.7	10.4	10.5	33.6	35.2	35.2	40.2	40.4	41.2	19
199.2	203.7	204.6	819.2	836.7	846.8	214.9	219.9	221.0	782.1	812.6	817.5	481.4	478.1	486.1	20
3.8	3.9	3.8	22.3	23.5	24.3	2.9	3.2	3.2	16.1	16.7	16.7	16.4	16.4	16.6	21
6.0	6.1	6.1	33.2	34.0	34.2	6.0	6.3	6.3	25.7	27.6	27.6	35.3	35.1	35.7	22
22.3	23.6	23.7	101.9	106.5	107.5	17.1	17.9	17.9	86.2	89.3	90.6	96.6	97.9	100.2	23
20.7	22.0	21.9	89.4	94.9	96.5	19.2	20.8	20.9	69.3	75.0	75.2	136.4	135.3	136.5	24
4.9	4.9	4.8	21.8	22.4	22.3	3.9	4.1	4.1	18.2	18.7	18.6	22.4	22.4	22.5	25
26.8	27.1	27.2	146.1	150.1	152.0	34.1	36.0	36.1	134.1	141.0	141.3	141.0	143.4	143.9	26
128.0	124.6	126.4	358.0	366.3	369.0	134.3	140.1	140.6	331.6	344.4	344.0	289.9	284.4	292.0	27
20.2	21.2	21.2	117.6	122.6	124.1	23.9	25.6	25.5	131.2	138.0	138.0	79.3	78.7	79.8	28
4.3	4.5	4.5	29.8	30.4	30.6	4.9	5.0	5.0	29.6	30.9	31.1	24.7	23.5	23.8	29
4.2	4.3	4.3	20.5	21.6	21.7	5.2	5.3	5.4	16.1	16.6	16.6	19.4	19.4	19.8	30
8.1	8.4	8.5	27.4	29.5	29.0	4.8	5.1	5.1	22.9	24.4	24.4	27.2	27.3	27.3	31
4.2	4.4	4.3	19.9	20.7	20.9	3.3	3.5	3.5	17.5	18.0	18.0	36.6	35.7	36.2	32
71.1	75.4	75.6	291.2	294.3	294.0	69.1	72.7	72.8	237.5	242.2	242.6	221.5	224.6	224.8	33
49.5	53.2	53.2	184.8	186.4	186.2	49.2	51.8	51.9	153.4	158.2	158.3	123.7	124.0	124.1	34
59.1	61.8	(*)	294.5	302.3	(*)	97.0	100.1	(*)	266.9	278.6	(*)	187.6	187.2	(*)	35
6.0	6.3	6.3	34.6	33.7	34.3	6.7	6.8	6.8	31.0	31.4	31.5	16.5	16.3	16.2	36
14.9	15.4	15.3	80.4	81.8	83.0	55.1	57.2	57.3	72.0	75.1	75.1	53.0	53.2	53.6	37
1.5	1.5	1.5	10.5	10.6	10.6	1.7	1.7	1.7	9.6	9.8	9.9	7.1	7.0	7.0	38
15.5	15.6	15.6	40.4	40.8	41.3	10.5	10.4	10.4	45.4	47.1	47.2	26.7	26.9	27.1	39
3.6	3.8	3.8	24.3	24.6	25.0	7.2	7.4	7.5	24.1	25.7	25.7	9.7	10.0	10.3	40
3.1	3.1	3.1	15.8	15.9	16.1	3.2	3.3	3.3	17.9	19.1	19.2	11.9	11.2	11.3	41
13.0	12.9	13.0	55.6	53.7	54.8	11.4	11.5	11.5	42.5	43.4	43.3	40.6	44.7	45.5	42
12.2	12.3	12.3	45.7	43.3	44.0	10.1	10.2	10.2	37.3	38.8	38.6	32.0	36.5	37.2	43
25.7	26.3	26.3	66.3	66.4	66.8	33.6	33.7	33.9	161.3	166.0	167.0	273.2	273.5	274.4	44
64.5	66.9	66.9	287.9	285.8	290.3	84.6	87.2	87.5	366.4	381.1	381.4	534.3	533.4	536.2	45
197.1	207.9	211.1	825.6	825.3	842.1	224.7	242.6	243.0	683.9	709.3	720.3	614.5	614.8	623.2	46
2.8	2.9	2.9	19.7	19.3	19.4	4.0	4.3	4.3	17.8	18.7	18.6	14.2	14.2	14.4	47
14.5	14.6	14.7	83.9	82.6	84.8	24.6	25.1	25.0	67.5	69.1	71.3	42.6	43.2	43.1	48
1.5	1.5	1.5	12.7	12.1	12.2	2.6	2.7	2.7	7.8	8.4	8.6	29.6	29.7	30.5	49
22.8	23.8	24.0	74.4	73.3	73.9	28.0	28.4	28.3	54.5	56.1	56.5	54.9	55.8	56.2	50
64.7	70.6	73.2	167.8	165.1	166.8	47.4	50.0	50.8	156.6	157.5	160.7	90.4	88.5	89.6	51
12.6	13.2	13.5	70.0	69.3	70.2	17.0	18.3	18.3	64.5	67.5	68.1	41.3	43.0	43.7	52
4.8	5.6	5.3	22.0	22.0	22.3	4.2	4.3	4.4	17.2	17.8	17.7	25.6	26.0	26.2	53
2.7	2.7	2.8	18.0	17.7	18.6	4.7	4.9	4.9	14.2	15.3	15.7	9.4	9.8	9.8	54
2.2	2.3	2.3	13.8	15.3	15.3	3.1	3.1	3.2	9.2	11.8	11.8	33.5	31.9	32.8	55
28.2	28.2	28.2	133.3	133.3	134.5	35.3	37.6	37.7	108.5	111.2	112.0	78.2	77.9	78.0	56
7.7	8.1	8.1	45.1	45.0	46.9	13.7	14.3	14.6	40.5	40.0	41.3	30.1	31.9	32.4	57
128.0	130.3	129.5	465.4	466.9	467.7	102.8	106.0	106.4	301.1	305.9	305.8	397.7	398.7	400.3	58
1.9	2.0	1.9	9.3	9.7	9.7	1.7	1.8	1.9	4.9	5.3	5.3	10.2	10.2	10.3	59
78.0	79.6	79.4	243.9	238.7	239.9	59.3	62.6	61.6	158.5	160.3	160.3	150.9	152.8	154.4	60
4.2	4.4	4.4	25.1	24.9	24.8	4.3	4.4	4.4	14.9	15.6	15.6	28.1	29.1	29.3	61
3.4	3.5	3.4	17.4	17.1	16.8	5.2	5.2	5.2	10.7	10.9	10.8	19.0	19.8	20.5	62
4.5	4.6	4.6	20.4	19.5	19.8	5.7	5.8	5.7	15.2	15.1	15.2	30.9	30.4	30.3	63

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>GEORGIA—Continued</b>												
1 Savannah .....	85.2	83.1	82.9	(1)	(1)	(1)	6.5	4.6	4.6	17.0	16.4	16.5
<b>HAWAII</b>												
2 Honolulu .....	384.2	399.1	397.8	(1)	(1)	(1)	21.4	23.4	23.1	22.4	21.9	22.4
3 Honolulu .....	318.0	330.8	329.9	(1)	(1)	(1)	17.6	18.6	18.3	16.3	16.0	16.2
<b>IDAHO</b>												
4 Boise City .....	341.3	345.4	343.0	3.9	4.2	4.2	20.2	20.5	19.6	60.2	61.2	59.6
5 Boise City .....	81.0	82.9	81.9	(1)	(1)	(1)	6.3	6.5	6.3	9.1	10.2	9.7
<b>ILLINOIS</b>												
6 Bloomington-Normal .....	4,841.7	4,860.8	4,833.0	27.9	29.1	29.0	185.4	185.9	180.0	1,249.5	1,194.9	1,157.5
7 Chicago-Gary .....	49.9	50.4	50.4	(2)	(2)	(2)	1.6	1.4	1.3	7.0	7.3	7.1
8 Champaign-Urbana-Rantoul .....	71.1	73.6	74.1	(2)	(2)	(2)	2.8	3.0	2.9	7.9	8.1	8.1
9 Chicago-Gary .....	3,469.3	3,508.5	(*)	4.9	5.1	(*)	149.8	155.8	(*)	951.4	943.6	(*)
10 Chicago SMSA .....	3,207.6	3,245.9	3,244.6	4.8	5.0	5.0	132.7	137.3	135.9	846.5	844.0	833.6
11 Davenport-Rock Island-Moline .....	160.7	156.9	156.4	(2)	(2)	(2)	7.3	7.5	7.4	48.8	43.4	43.3
12 Decatur .....	55.1	51.0	50.2	(2)	(2)	(2)	3.1	3.5	3.3	15.3	14.5	13.4
13 Kankakee .....	33.4	33.2	33.5	(2)	(2)	(2)	1.2	1.1	1.1	10.1	9.5	9.7
14 Peoria .....	151.9	118.9	119.1	(2)	(2)	(2)	9.3	9.5	9.2	51.8	16.2	15.8
15 Rockford .....	122.5	123.3	123.1	(2)	(2)	(2)	3.6	3.4	3.3	56.8	56.7	56.2
16 Springfield .....	83.0	82.1	82.9	(2)	(2)	(2)	4.0	4.2	4.0	7.8	6.7	7.3
<b>INDIANA</b>												
17 Anderson .....	2,233.5	2,258.4	2,243.1	10.1	10.2	10.0	110.1	122.4	119.8	752.6	731.8	714.3
18 Evansville .....	53.6	51.6	51.0	(1)	(1)	(1)	1.2	1.2	1.2	26.1	24.2	23.5
19 Fort Wayne .....	126.2	125.6	125.3	2.5	2.6	2.5	8.5	8.4	8.1	38.4	37.5	37.0
20 Gary-Hammond-East Chicago .....	176.9	179.8	172.3	(1)	(1)	(1)	7.6	8.1	7.9	62.3	61.5	53.3
21 Indianapolis .....	261.7	260.6	259.4	(1)	(1)	(1)	17.1	18.6	18.1	104.9	99.9	99.0
22 Lafayette-West Lafayette .....	516.4	522.6	522.6	(1)	(1)	(1)	18.7	20.6	20.1	131.6	127.7	126.0
23 Muncie .....	59.4	59.8	59.4	(1)	(1)	(1)	2.0	2.3	2.3	13.0	12.5	11.9
24 South Bend .....	50.1	50.6	50.8	(1)	(1)	(1)	2.0	2.0	1.9	14.3	14.3	14.4
25 Terre Haute .....	113.6	113.9	113.5	(1)	(1)	(1)	5.2	4.8	4.8	34.8	34.1	33.6
26 Terre Haute .....	65.2	65.8	65.6	1.5	1.5	1.5	2.4	3.1	3.0	17.7	16.9	16.8
<b>IOWA</b>												
27 Cedar Rapids .....	1,126.6	1,131.0	1,147.0	2.5	2.4	2.3	60.7	64.0	60.9	253.9	241.4	259.5
28 Des Moines .....	85.0	88.5	88.5	(1)	(1)	(1)	4.3	4.6	4.4	29.8	30.2	30.1
29 Dubuque .....	181.7	180.9	183.4	(1)	(1)	(1)	9.0	8.9	8.8	26.3	24.6	26.3
30 Sioux City .....	45.1	40.4	46.0	(1)	(1)	(1)	2.2	2.3	2.3	17.4	12.4	17.8
31 Waterloo-Cedar Falls .....	52.3	51.4	51.7	(1)	(1)	(1)	3.9	3.8	3.7	9.9	9.3	9.3
32 Waterloo-Cedar Falls .....	66.9	59.7	70.4	(1)	(1)	(1)	2.9	3.3	3.2	22.2	14.1	24.7
<b>KANSAS</b>												
33 Lawrence .....	931.7	958.8	963.5	12.8	13.3	13.5	49.4	55.8	53.6	194.1	198.5	203.1
34 Topeka .....	27.2	28.6	28.8	(2)	(2)	(2)	1.3	1.5	1.5	4.4	4.7	4.8
35 Wichita .....	85.3	85.6	85.7	.3	.3	.3	3.8	3.8	3.7	11.3	10.6	10.6
36 Wichita .....	197.3	209.0	210.6	2.0	2.4	2.4	10.4	13.0	12.3	62.8	69.5	70.8
<b>KENTUCKY</b>												
37 Lexington-Fayette .....	1,270.2	1,290.0	1,295.6	61.0	59.7	60.5	74.7	72.9	73.4	293.3	286.9	289.5
38 Louisville .....	150.0	153.9	155.2	(1)	(1)	(1)	8.3	10.0	9.8	31.3	30.9	31.2
39 Owensboro .....	410.8	412.6	412.2	(1)	(1)	(1)	21.9	21.1	20.9	112.4	106.6	103.5
40 Owensboro .....	31.0	31.9	31.8	.9	.8	.8	2.5	2.8	2.5	7.1	6.9	6.9
<b>LOUISIANA</b>												
41 Alexandria .....	1,431.6	1,458.5	1,467.9	74.0	77.8	78.4	118.8	125.4	125.9	212.9	213.9	215.8
42 Baton Rouge .....	51.8	51.6	51.8	(1)	(1)	(1)	3.3	3.2	3.2	6.5	6.4	6.5
43 Lafayette .....	190.2	188.5	189.7	1.0	1.0	1.0	25.7	24.7	24.8	24.9	25.2	25.3
44 Lake Charles .....	64.4	69.9	70.5	11.6	12.3	12.6	5.3	7.0	7.0	3.8	4.3	4.2
45 Monroe .....	58.6	59.1	59.2	1.9	1.9	1.9	5.5	5.6	5.6	12.4	12.6	12.7
46 New Orleans .....	49.8	50.2	50.2	.4	.4	.3	4.8	4.9	4.8	6.7	8.7	8.4
47 Shreveport .....	478.9	483.4	486.2	15.7	16.4	16.4	28.8	28.9	29.1	52.8	52.3	52.4
48 Shreveport .....	143.4	146.0	146.7	5.3	5.5	5.5	10.4	11.6	11.7	28.5	28.1	28.0
<b>MAINE</b>												
49 Lewiston-Auburn .....	410.5	416.2	413.1	(1)	(1)	(1)	20.4	19.6	18.8	113.0	114.0	114.4
50 Portland .....	34.8	36.3	36.4	(1)	(1)	(1)	1.3	1.5	1.4	12.6	11.9	12.0
51 Portland .....	87.9	89.0	90.3	(1)	(1)	(1)	3.9	4.0	4.0	16.1	17.3	17.5
<b>MARYLAND</b>												
52 Baltimore .....	1,623.5	1,626.1	1,632.8	(1)	(1)	(1)	109.7	106.8	106.7	246.6	247.8	247.5
53 Baltimore .....	900.3	897.8	903.1	(1)	(1)	(1)	53.1	52.8	52.8	166.9	166.4	166.6
<b>MASSACHUSETTS</b>												
54 Boston .....	2,557.8	2,602.2	2,614.3	(1)	(1)	(1)	78.7	84.0	83.9	665.2	669.2	668.9
55 Brockton .....	1,387.9	1,411.4	1,423.0	(1)	(1)	(1)	40.0	42.6	41.9	287.4	284.5	285.2
56 Fall River .....	55.8	58.2	58.9	(1)	(1)	(1)	2.0	1.8	1.8	12.8	13.2	13.0
57 Lawrence-Haverhill .....	56.9	57.8	57.7	(1)	(1)	(1)	1.8	1.9	1.9	21.1	21.1	20.8
58 Lowell .....	107.6	107.5	107.9	(1)	(1)	(1)	3.1	3.1	3.2	40.1	39.8	39.8
59 New Bedford .....	72.0	76.2	76.5	(1)	(1)	(1)	2.8	3.1	3.0	24.2	26.6	26.8
60 Springfield-Chicopee-Holyoke .....	66.1	66.6	66.4	(1)	(1)	(1)	1.9	1.7	1.6	27.0	26.6	26.6
61 Springfield-Chicopee-Holyoke .....	234.3	241.2	241.8	(1)	(1)	(1)	6.0	6.5	6.3	66.4	69.9	69.9

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			
NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	
9.4	10.3	9.8	19.6	19.3	19.4	4.0	4.2	4.2	13.6	13.7	13.9	15.0	14.7	14.6	1
29.5	30.8	31.0	100.3	106.2	107.0	29.5	30.6	30.7	93.1	101.3	102.6	88.0	84.9	81.0	2
24.2	25.7	25.7	84.0	89.1	89.9	25.7	26.5	26.6	75.2	82.7	83.3	75.0	72.2	69.9	3
20.2	20.2	20.2	85.1	84.5	85.3	22.7	23.0	23.0	56.8	59.8	59.4	72.2	72.0	71.7	4
5.0	5.4	5.4	21.6	20.5	20.6	8.9	9.0	9.0	13.4	14.3	14.0	16.7	17.0	16.9	5
298.1	304.3	310.6	1,112.3	1,112.1	1,117.5	289.1	297.1	297.9	901.3	931.6	929.6	778.1	805.9	810.9	6
3.1	3.1	3.1	11.8	11.9	12.1	7.3	7.5	7.5	7.0	7.3	7.3	12.0	11.9	11.9	7
2.5	2.6	2.6	16.2	16.9	17.0	2.3	2.4	2.4	9.5	9.5	9.7	29.8	31.1	31.4	8
214.6	219.6	(*)	775.4	773.3	(*)	216.8	220.9	(*)	662.5	678.1	(*)	494.0	512.3	(*)	9
200.1	203.8	208.0	725.2	720.6	724.4	207.9	212.3	213.2	627.9	642.4	642.2	462.5	480.7	482.4	10
6.9	7.9	7.9	42.0	42.3	42.5	6.6	6.7	6.7	23.3	23.5	23.3	25.9	25.4	25.4	11
4.7	4.8	4.8	11.4	11.4	11.6	2.5	2.6	2.6	8.6	8.9	8.9	5.4	5.4	5.6	12
1.3	1.5	1.5	7.8	8.0	8.1	1.0	1.0	1.0	6.1	6.2	6.3	5.9	5.9	5.8	13
7.7	8.0	8.1	36.1	36.6	37.2	7.5	7.6	7.6	26.5	27.9	27.9	13.0	13.2	13.3	14
5.3	5.1	5.1	24.7	25.4	25.7	4.0	4.1	4.2	16.0	16.6	16.6	12.1	12.0	12.0	15
4.8	4.8	4.8	19.7	19.6	19.9	6.7	6.8	6.8	15.4	15.8	15.8	24.6	24.1	24.3	16
110.2	110.6	110.3	484.6	486.8	488.3	97.3	100.5	100.5	315.1	329.9	330.2	353.7	366.2	369.6	17
1.5	1.5	1.5	10.7	10.4	10.5	1.7	1.7	1.7	6.9	6.8	6.8	5.5	5.8	5.8	18
6.8	6.7	6.8	30.1	30.2	30.8	4.3	4.4	4.4	23.3	23.7	23.5	12.3	12.1	12.2	19
10.8	11.5	11.4	41.8	42.9	43.7	9.7	10.1	10.1	26.8	27.7	27.9	17.9	18.0	18.0	20
14.5	15.4	15.3	50.2	51.6	51.7	8.9	9.0	9.0	34.6	34.5	34.4	31.5	31.6	31.9	21
31.0	31.5	31.6	127.9	130.6	132.7	34.7	35.7	35.7	84.3	88.6	88.3	88.2	87.9	88.2	22
1.6	1.6	1.6	12.0	11.9	12.0	2.8	2.6	2.5	8.5	9.1	9.0	19.5	19.8	20.1	23
2.2	2.2	2.2	11.6	11.5	11.6	1.5	1.6	1.6	7.3	7.7	7.8	11.2	11.3	11.3	24
5.3	5.3	5.2	27.0	27.6	27.8	5.1	5.2	5.2	23.1	23.8	23.7	13.1	13.1	13.2	25
4.0	4.0	4.0	16.3	16.1	16.3	2.0	2.1	2.0	8.9	9.3	9.2	12.4	12.8	12.8	26
56.1	57.2	56.7	287.3	294.4	296.3	55.7	58.5	58.4	198.4	204.7	203.7	212.0	208.4	209.2	27
3.9	3.9	3.9	18.5	19.9	20.3	4.3	4.4	4.4	14.7	15.1	15.2	9.5	10.5	10.2	28
11.3	11.7	11.7	48.3	48.6	49.3	19.6	20.2	20.2	37.7	37.7	37.9	29.5	29.2	29.3	29
1.6	1.6	1.6	9.3	9.5	9.5	1.3	1.3	1.3	9.4	9.3	9.3	4.0	4.2	4.2	30
4.0	4.0	4.0	13.7	13.5	13.6	2.7	2.8	2.8	11.2	11.5	11.7	6.7	6.5	6.5	31
2.5	2.5	2.6	14.8	14.8	15.0	2.0	2.0	2.0	10.4	10.9	10.9	12.0	12.0	12.0	32
64.1	67.7	67.1	224.3	226.7	228.5	45.4	47.3	47.3	157.7	166.1	166.0	183.9	183.4	184.4	33
1.4	1.4	1.5	5.6	5.7	5.7	.8	.9	.8	3.3	3.5	3.5	10.6	10.9	11.0	34
7.4	7.5	7.5	19.3	19.5	19.4	5.7	5.9	6.0	16.2	16.9	17.0	21.3	21.1	21.2	35
10.2	10.8	10.9	43.7	44.5	45.1	9.0	9.4	9.3	36.2	37.1	37.5	23.0	22.3	22.5	36
69.9	69.6	69.6	276.1	290.3	290.8	48.9	50.8	51.4	205.2	214.1	213.9	241.1	245.7	246.5	37
7.0	7.8	7.8	34.4	34.1	35.5	7.0	7.1	7.2	26.5	29.7	29.7	35.5	34.0	34.0	38
24.7	25.8	25.9	96.5	100.6	102.3	22.0	23.0	23.2	74.7	76.5	77.0	58.5	59.1	59.4	39
2.2	2.3	2.3	7.5	7.5	7.7	1.1	1.2	1.2	5.3	6.0	5.9	4.4	4.4	4.5	40
110.2	111.8	110.8	342.0	344.2	348.8	70.5	72.8	73.3	241.7	245.2	246.7	261.5	267.4	268.2	41
2.5	2.6	2.6	11.4	10.9	10.9	3.2	3.2	3.2	9.7	10.2	10.2	15.2	15.1	15.2	42
9.6	9.8	9.8	40.0	41.6	42.4	10.6	11.0	11.0	27.3	26.7	26.8	51.1	48.5	48.6	43
4.6	4.7	4.7	16.5	17.9	18.2	2.0	2.2	2.2	11.5	11.9	12.0	9.1	9.6	9.6	44
3.1	2.9	2.8	13.0	13.1	13.2	2.6	2.6	2.6	9.5	9.5	9.5	10.6	10.9	10.9	45
2.3	2.4	2.4	13.1	12.6	12.7	3.3	3.4	3.4	7.7	8.2	8.4	9.5	9.6	9.8	46
48.4	49.8	49.4	120.4	119.4	121.1	28.6	29.9	30.0	104.8	105.8	106.8	79.4	80.9	81.0	47
10.0	10.4	10.5	34.8	35.0	35.4	6.5	6.8	6.8	24.3	24.7	24.7	23.6	23.9	24.1	48
18.1	18.9	18.7	90.4	91.5	90.4	16.0	16.3	16.2	69.0	72.0	70.6	83.6	83.9	84.0	49
1.1	1.2	1.2	7.8	8.9	8.9	1.5	1.5	1.6	7.0	7.7	7.7	3.5	3.6	3.6	50
5.2	5.4	5.2	24.4	23.2	24.0	6.8	7.2	7.2	18.1	18.8	19.0	13.4	13.1	13.4	51
87.7	88.1	88.5	386.9	383.2	386.5	86.6	89.7	89.9	321.4	336.5	334.1	384.6	374.0	379.6	52
60.5	62.4	62.9	199.3	194.9	196.4	52.3	54.1	54.2	173.6	178.8	178.0	194.6	188.4	192.2	53
118.3	118.0	117.8	572.3	576.1	581.7	148.6	152.0	152.0	572.1	599.1	599.1	402.6	403.8	410.9	54
69.9	71.8	72.1	311.8	309.9	314.9	101.7	105.5	106.0	374.6	391.0	394.7	202.5	206.1	208.2	55
4.2	4.5	4.5	14.8	15.0	15.6	2.1	2.2	2.2	8.8	9.8	9.8	11.1	11.7	12.0	56
1.9	2.0	2.0	12.2	12.2	12.4	2.6	2.6	2.6	9.6	10.3	10.3	7.7	7.7	7.7	57
4.2	4.4	4.4	23.3	22.9	23.0	3.8	3.8	3.8	16.0	16.3	16.4	17.1	17.2	17.3	58
3.4	3.9	3.9	15.7	16.0	16.0	2.1	2.2	2.2	11.0	11.6	11.7	12.8	12.8	12.9	59
2.4	2.4	2.5	12.4	12.5	12.6	1.9	2.0	2.0	8.6	8.9	8.8	11.9	12.5	12.3	60
9.8	10.1	10.1	49.2	51.4	51.6	12.6	13.0	13.0	44.4	46.4	46.7	43.9	43.9	44.2	61

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>MASSACHUSETTS—Continued</b>												
1 Worcester .....	163.5	166.8	167.8	(1)	(1)	(1)	4.8	5.2	5.1	47.8	48.4	48.7
<b>2 MICHIGAN</b> .....	(*)	3,608.1	3,597.3	(*)	11.9	11.9	(*)	159.6	152.0	(*)	1,103.6	1,080.4
3 Ann Arbor .....	(*)	142.2	141.0	(*)	(1)	(1)	(*)	3.5	3.2	(*)	44.5	41.9
4 Battle Creek .....	(*)	68.0	67.5	(*)	(1)	(1)	(*)	2.4	2.2	(*)	23.1	22.8
5 Bay City .....	(*)	37.0	37.1	(*)	(1)	(1)	(*)	1.6	1.5	(*)	11.8	11.6
6 Detroit .....	(*)	1,782.4	1,772.9	(*)	1.2	1.2	(*)	68.4	65.6	(*)	560.3	543.6
7 Flint .....	(*)	202.9	202.1	(*)	(1)	(1)	(*)	6.7	6.5	(*)	85.7	84.7
8 Grand Rapids .....	(*)	265.2	264.4	(*)	(1)	(1)	(*)	14.9	13.7	(*)	90.9	90.6
9 Jackson .....	(*)	55.7	55.2	(*)	(1)	(1)	(*)	2.2	2.1	(*)	16.3	16.1
10 Kalamazoo-Portage .....	(*)	111.5	111.2	(*)	(1)	(1)	(*)	5.4	5.2	(*)	35.4	35.0
11 Lansing-East Lansing .....	(*)	198.3	199.9	(*)	(1)	(1)	(*)	7.4	7.1	(*)	43.9	44.9
12 Muskegon-Norton Shores-Musk. Hgts. ....	(*)	63.0	62.3	(*)	(1)	(1)	(*)	3.2	3.0	(*)	23.2	22.7
13 Saginaw .....	(*)	90.8	90.2	(*)	(1)	(1)	(*)	3.2	3.2	(*)	34.5	33.3
<b>14 MINNESOTA</b> .....	1,727.4	1,795.6	1,797.7	17.3	17.8	17.4	88.0	101.0	95.5	365.1	384.2	382.6
15 Duluth-Superior .....	63.2	64.8	64.2	(1)	(1)	(1)	2.6	3.0	2.9	8.3	8.6	8.5
16 Minneapolis-St. Paul .....	1,045.5	1,082.7	1,088.4	(1)	(1)	(1)	47.2	57.0	54.9	235.8	244.9	244.6
<b>17 MISSISSIPPI</b> .....	832.1	838.9	836.9	8.9	9.5	9.4	47.2	49.9	48.3	237.6	233.5	231.2
18 Jackson .....	143.5	146.9	146.9	1.1	1.2	1.2	8.7	9.8	9.3	15.1	18.9	19.0
<b>19 MISSOURI</b> .....	1,956.9	1,976.5	1,965.4	8.1	8.8	8.6	85.0	91.6	87.9	460.8	446.1	437.6
20 Kansas City .....	624.2	626.9	627.5	.5	.5	.5	28.5	31.8	31.0	126.0	124.7	124.9
21 St. Joseph .....	36.4	36.0	35.7	(2)	(2)	(2)	1.9	2.0	2.0	9.2	8.7	8.6
22 St. Louis .....	988.3	970.3	967.6	2.5	2.6	2.6	46.3	47.0	45.6	258.0	245.4	239.7
23 Springfield .....	83.7	83.8	83.7	(2)	(2)	(2)	3.5	3.9	4.0	18.6	18.2	18.0
<b>24 MONTANA</b> .....	282.0	294.2	291.8	7.6	8.2	8.2	16.9	17.9	16.7	27.1	28.1	27.7
25 Billings .....	46.0	48.7	48.5	(1)	(1)	(1)	2.3	3.1	2.8	4.1	4.6	4.6
26 Great Falls .....	30.6	31.2	31.0	(1)	(1)	(1)	1.9	2.0	1.9	1.9	1.8	1.8
<b>27 NEBRASKA</b> .....	609.9	619.1	620.5	1.6	1.6	1.6	34.2	34.5	33.3	93.9	97.6	97.1
28 Lincoln .....	101.9	100.9	101.4	(2)	(2)	(2)	4.8	4.9	4.8	14.0	13.6	13.4
29 Omaha .....	255.8	261.8	262.7	(2)	(2)	(2)	12.6	12.3	11.8	35.4	37.1	36.9
<b>30 NEVADA</b> .....	368.1	383.3	384.4	3.9	4.2	4.2	27.5	26.5	25.7	18.7	20.1	20.1
31 Las Vegas .....	195.6	205.0	206.3	.3	.2	.2	14.3	13.9	13.6	6.6	7.3	7.3
32 Reno .....	110.3	114.0	114.1	.6	.6	.7	8.8	7.8	7.6	8.3	8.7	8.6
<b>33 NEW HAMPSHIRE</b> .....	371.8	389.6	387.8	.5	.5	.5	21.0	22.5	22.2	112.2	114.7	114.5
34 Manchester .....	73.8	75.1	75.7	(2)	(2)	(2)	3.8	3.8	3.8	19.3	18.6	18.6
35 Nashua .....	57.4	61.0	61.2	(2)	(2)	(2)	2.9	3.4	3.3	26.1	27.5	27.6
<b>36 NEW JERSEY</b> .....	3,025.0	3,053.8	3,056.7	2.5	2.6	2.5	117.9	122.2	121.2	805.0	804.3	798.1
37 Atlantic City .....	72.2	83.9	84.8	-	-	-	3.5	7.5	7.4	6.7	7.9	8.0
38 Camden .....	331.0	331.6	332.4	.1	.1	.1	14.8	14.3	14.0	71.6	72.2	72.1
39 Hackensack .....	400.3	391.7	393.9	(1)	(1)	(1)	14.0	14.4	14.0	114.2	110.4	109.8
40 Jersey City .....	236.2	235.0	233.8	-	-	-	4.0	4.2	4.1	73.1	71.9	70.5
41 Long Branch-Asbury Park .....	154.2	154.6	155.3	(1)	(1)	(1)	6.6	5.6	5.4	24.0	24.4	24.2
42 New Bruns. Perth Amboy-Sayreville .....	282.2	287.8	287.5	(1)	(1)	(1)	11.6	11.2	11.0	91.1	90.5	88.2
43 Newark .....	942.4	952.3	955.3	.9	.9	.9	36.2	36.3	36.4	255.1	259.8	259.3
44 Paterson-Clifton-Passaic .....	197.3	196.6	198.8	(1)	(1)	(1)	7.6	6.9	6.8	69.5	70.4	70.8
45 Trenton .....	164.5	167.3	167.5	(1)	(1)	(1)	3.1	3.2	3.2	37.4	36.9	36.3
46 Vineland-Millville-Bridgeton .....	57.0	58.8	58.9	(1)	(1)	(1)	1.7	1.8	1.8	19.6	19.7	19.3
<b>47 NEW MEXICO</b> .....	455.0	475.3	474.7	25.3	27.2	27.4	36.5	37.5	36.6	34.1	35.5	35.5
48 Albuquerque .....	182.1	190.0	189.3	(1)	(1)	(1)	15.7	15.6	15.1	17.4	18.4	18.3
<b>49 NEW YORK</b> .....	7,139.0	7,154.4	7,172.7	6.5	7.1	7.1	214.5	215.2	209.2	1,511.5	1,511.2	1,502.1
50 Albany-Schenectady-Troy .....	332.0	331.0	331.8	(1)	(1)	(1)	11.7	11.4	11.0	61.8	58.2	58.0
51 Binghamton .....	119.3	120.0	119.3	(1)	(1)	(1)	4.9	5.6	5.4	42.5	42.7	41.8
52 Buffalo .....	518.0	519.1	519.5	(1)	(1)	(1)	20.4	20.7	19.9	146.2	144.5	143.7
53 Elmira .....	38.2	38.3	38.2	(1)	(1)	(1)	1.7	1.5	1.4	11.9	12.1	11.9
54 Monroe County .....	337.9	339.7	339.8	(1)	(1)	(1)	10.8	10.4	9.8	133.8	134.1	133.7
55 Nassau-Suffolk .....	878.4	881.9	884.5	(1)	(1)	(1)	35.7	33.9	33.8	161.0	163.6	163.6
56 New York-Northeastern New Jersey .....	6,626.1	6,636.3	(*)	3.0	3.0	(*)	195.9	193.7	(*)	1,399.1	1,396.6	(*)
57 New York and Nassau-Suffolk .....	4,567.8	4,571.6	4,593.3	1.7	1.7	1.8	122.5	121.8	122.1	795.9	794.0	792.7
58 New York SMSA .....	3,689.4	3,689.7	3,708.9	1.5	1.5	1.6	86.8	87.9	88.3	634.9	630.5	629.1
59 New York City .....	3,262.4	3,258.5	3,275.3	1.3	1.3	1.3	69.5	71.0	71.3	545.2	539.1	537.5
60 Poughkeepsie .....	94.4	95.7	95.7	(1)	(1)	(1)	3.2	3.3	3.3	31.2	31.9	31.8
61 Rochester .....	416.7	419.3	418.6	(1)	(1)	(1)	13.3	13.1	12.1	156.4	156.4	155.4

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	
7.1	7.3	7.3	35.8	37.1	37.9	8.5	8.8	8.8	32.3	32.9	33.0	27.2	27.1	27.0	1
(*)	156.5	155.6	(*)	754.1	765.8	(*)	150.2	150.8	(*)	641.5	641.9	(*)	630.8	638.8	2
(*)	3.6	3.7	(*)	20.9	21.2	(*)	3.7	3.7	(*)	21.5	21.4	(*)	44.5	45.9	3
(*)	2.4	2.4	(*)	11.8	11.9	(*)	3.8	3.8	(*)	11.6	11.5	(*)	12.9	12.9	4
(*)	1.7	1.7	(*)	8.3	8.4	(*)	1.3	1.3	(*)	6.3	6.5	(*)	6.0	6.1	5
(*)	86.1	85.6	(*)	365.9	372.4	(*)	86.0	86.1	(*)	350.6	351.3	(*)	263.9	267.1	6
(*)	6.8	6.8	(*)	41.2	41.8	(*)	5.8	5.8	(*)	29.2	29.2	(*)	27.5	27.3	7
(*)	10.2	10.2	(*)	60.6	61.4	(*)	9.8	9.8	(*)	47.2	46.9	(*)	31.6	31.8	8
(*)	5.2	5.2	(*)	11.4	11.3	(*)	1.5	1.5	(*)	10.3	10.3	(*)	8.8	8.7	9
(*)	3.7	3.7	(*)	21.7	21.9	(*)	4.0	4.0	(*)	20.1	20.2	(*)	21.2	21.2	10
(*)	5.5	5.6	(*)	36.5	36.8	(*)	9.2	9.2	(*)	26.7	26.6	(*)	69.1	69.7	11
(*)	3.0	2.9	(*)	11.8	11.9	(*)	1.8	1.8	(*)	9.2	9.2	(*)	10.8	10.8	12
(*)	4.8	4.8	(*)	18.1	18.3	(*)	3.9	3.9	(*)	13.5	13.7	(*)	12.8	13.0	13
97.8	103.3	103.4	438.5	443.3	448.5	88.4	92.1	92.4	336.3	356.7	356.1	296.0	297.2	301.8	14
7.3	6.9	6.8	17.2	17.7	17.8	2.2	2.4	2.4	12.2	12.5	12.5	13.4	13.6	13.4	15
62.8	67.0	67.1	262.5	264.9	268.8	65.7	68.5	68.7	216.3	227.8	228.5	155.2	152.7	155.7	16
39.1	41.2	41.3	163.7	164.7	166.1	31.9	32.2	32.2	117.0	120.8	121.0	186.7	187.2	187.4	17
8.9	9.0	9.0	35.4	36.3	36.8	11.0	11.0	11.0	27.5	28.3	28.3	31.7	32.3	32.3	18
136.3	139.7	137.8	470.3	474.0	478.3	102.7	104.9	104.8	349.1	362.9	359.6	344.6	348.4	350.8	19
54.5	53.2	52.4	159.2	156.8	159.1	41.8	42.5	42.8	121.9	126.3	124.7	91.8	91.1	92.1	20
2.2	2.1	2.1	9.2	9.0	9.2	1.8	1.9	1.8	6.2	6.3	6.0	5.9	6.0	6.0	21
69.7	68.1	68.2	222.9	217.3	221.0	53.4	54.7	54.6	195.3	197.9	196.7	140.2	137.3	139.2	22
6.3	6.5	6.5	23.7	23.6	23.6	3.3	3.3	3.3	16.3	16.3	16.1	12.0	12.0	12.2	23
22.6	24.2	24.3	72.4	75.9	76.0	12.6	14.1	14.1	51.9	53.6	53.0	70.9	72.1	71.7	24
4.4	4.4	4.4	15.9	16.2	16.3	2.1	2.4	2.4	9.4	10.0	10.0	7.8	8.0	8.0	25
1.9	2.1	2.1	10.2	10.7	10.5	2.0	2.1	2.1	6.6	6.5	6.5	6.2	6.0	6.1	26
45.1	46.8	46.5	157.5	159.1	160.2	39.6	40.8	40.8	109.2	113.9	113.7	128.8	124.8	127.3	27
7.0	7.2	7.2	22.5	23.2	23.4	7.1	7.1	7.0	17.3	16.5	16.5	29.2	28.4	29.1	28
23.6	24.3	24.1	67.8	68.8	69.5	23.1	23.8	24.0	54.0	56.7	56.6	39.3	38.8	39.8	29
22.6	24.1	24.4	73.1	78.2	79.8	15.1	15.8	15.8	154.0	159.0	159.0	53.2	55.4	55.4	30
12.8	13.6	13.7	41.1	45.0	46.0	8.1	8.5	8.5	88.4	91.1	91.6	24.0	25.4	25.4	31
7.3	7.8	8.0	22.2	23.3	23.8	5.6	5.9	5.8	42.6	44.4	44.1	14.9	15.5	15.5	32
13.7	13.9	13.9	83.8	89.3	89.7	17.8	18.9	18.9	65.3	71.4	68.9	57.5	58.4	59.2	33
4.6	4.9	4.9	19.3	19.9	20.3	5.3	5.5	5.6	13.3	13.8	13.9	8.2	8.6	8.6	34
1.8	1.8	1.8	11.4	12.4	12.5	1.8	1.9	1.9	7.8	8.3	8.3	5.6	5.7	5.8	35
191.9	193.4	192.4	685.2	681.4	688.9	149.4	152.2	152.3	551.0	579.7	577.1	522.0	518.0	524.2	36
3.5	3.7	3.5	18.6	18.7	18.7	4.5	4.8	4.7	17.3	25.0	26.1	16.1	16.2	16.4	37
15.6	15.7	15.7	86.0	84.1	85.0	15.2	15.9	16.0	64.6	66.5	66.5	63.2	62.8	63.0	38
21.0	20.0	20.0	119.0	112.4	114.2	15.3	16.1	15.9	72.5	76.3	76.3	44.4	42.1	43.7	39
27.5	27.9	27.5	45.9	46.2	46.6	8.4	8.9	8.9	31.3	30.9	30.7	45.9	45.0	45.5	40
6.2	6.4	6.4	39.9	41.1	41.4	7.0	7.1	7.1	37.9	38.3	38.2	32.7	31.7	32.6	41
20.1	23.0	23.2	66.5	68.5	70.0	9.4	9.7	9.7	38.5	39.5	39.6	45.0	45.4	45.8	42
70.3	69.5	70.0	183.6	182.7	184.3	62.5	62.1	62.3	183.3	190.8	190.9	150.4	150.2	151.2	43
7.8	7.1	7.0	43.9	43.2	44.3	9.3	9.7	9.7	31.1	32.7	33.1	28.1	26.6	27.1	44
6.0	5.9	5.9	26.4	26.5	27.0	6.8	6.9	6.8	39.5	40.6	40.5	45.3	47.3	47.8	45
3.1	3.0	3.1	9.5	9.8	9.8	2.4	2.4	2.4	8.5	9.1	9.2	12.3	13.0	13.3	46
27.8	28.8	29.0	104.2	109.3	109.8	20.3	21.5	21.5	88.2	89.9	89.4	118.6	125.6	125.5	47
10.9	12.0	12.1	46.6	48.4	48.7	10.4	11.1	11.1	40.7	42.3	42.1	40.4	42.2	41.9	48
434.4	434.1	434.6	1,488.8	1,475.1	1,493.8	588.3	595.2	596.1	1,592.3	1,636.9	1,636.9	1,302.7	1,279.6	1,293.0	49
15.4	15.5	15.5	68.0	67.4	67.9	14.9	15.2	15.1	65.3	66.9	66.8	94.7	96.5	97.4	50
4.7	4.7	4.6	22.7	22.1	22.5	3.6	3.7	3.7	17.6	18.0	17.9	23.2	23.2	23.3	51
28.7	28.9	28.9	116.6	118.0	118.7	21.5	22.1	22.1	94.8	95.7	95.7	89.7	89.2	90.4	52
1.4	1.4	1.4	8.4	8.3	8.3	1.0	1.0	1.0	6.9	7.1	7.1	7.0	6.9	7.0	53
10.1	9.9	9.9	63.8	63.0	63.5	14.6	15.2	15.1	64.6	66.9	67.2	40.2	40.1	40.7	54
37.5	37.5	37.5	231.6	230.6	232.4	47.6	48.2	48.3	185.0	190.6	189.3	180.0	177.5	179.6	55
466.1	463.6	(*)	1,424.3	1,407.2	(*)	590.7	598.7	(*)	1,471.6	1,509.0	(*)	1,075.4	1,064.5	(*)	56
319.2	317.1	317.4	965.2	953.2	964.2	485.8	490.4	491.8	1,115.6	1,140.1	1,142.6	761.8	753.1	760.7	57
281.8	279.7	280.0	733.6	722.7	731.8	438.2	442.2	443.5	930.8	949.7	953.6	581.8	575.6	581.0	58
260.0	257.7	258.0	632.6	621.1	629.0	418.7	422.6	423.9	831.3	848.1	852.7	503.9	497.6	501.6	59
2.9	3.0	3.0	16.0	15.9	15.9	2.5	2.6	2.6	16.6	16.7	16.7	22.0	22.4	22.5	60
13.1	12.9	12.9	80.9	80.4	80.9	16.2	16.9	16.8	75.9	78.3	78.5	60.9	61.2	62.1	61

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>NEW YORK—Continued</b>												
1 Rockland County <sup>8</sup>	78.6	78.6	79.2	(1)	(1)	(1)	2.5	2.2	2.4	15.7	15.3	15.5
2 Syracuse	263.5	264.1	261.4	(1)	(1)	(1)	11.6	11.6	11.0	61.4	60.0	56.8
3 Utica-Rome	116.6	118.6	117.6	(1)	(1)	(1)	3.4	4.0	3.7	32.2	32.4	32.2
4 Westchester County <sup>8</sup>	335.8	340.4	342.2	(1)	(1)	(1)	13.9	13.8	13.8	72.8	74.8	74.9
<b>5 NORTH CAROLINA</b>	<b>2,315.3</b>	<b>2,371.7</b>	<b>2,375.5</b>	<b>4.9</b>	<b>4.8</b>	<b>4.7</b>	<b>115.5</b>	<b>125.5</b>	<b>125.7</b>	<b>814.8</b>	<b>815.1</b>	<b>814.1</b>
6 Asheville	68.8	69.1	69.1	(1)	(1)	(1)	3.7	3.3	3.2	21.9	21.5	21.6
7 Charlotte-Gastonia	314.4	316.9	318.1	(1)	(1)	(1)	16.3	16.2	16.2	87.7	88.2	88.5
8 Greensboro-Winston-Salem-High Pt.	379.9	385.0	385.9	(1)	(1)	(1)	16.7	15.5	15.3	146.3	148.9	148.7
9 Raleigh-Durham	253.4	260.8	261.8	(1)	(1)	(1)	13.0	12.7	12.8	39.9	42.5	42.1
<b>10 NORTH DAKOTA</b>	<b>240.1</b>	<b>252.0</b>	<b>250.0</b>	<b>5.0</b>	<b>6.1</b>	<b>6.1</b>	<b>20.9</b>	<b>24.3</b>	<b>23.0</b>	<b>16.5</b>	<b>17.5</b>	<b>16.4</b>
11 Fargo-Moorhead	63.1	65.1	64.3	(2)	(2)	(2)	4.9	5.4	5.1	5.3	5.5	4.5
<b>12 OHIO</b>	<b>4,490.4</b>	<b>4,526.6</b>	<b>4,522.5</b>	<b>33.1</b>	<b>31.7</b>	<b>31.7</b>	<b>194.3</b>	<b>203.5</b>	<b>198.7</b>	<b>1,404.4</b>	<b>1,370.4</b>	<b>1,358.4</b>
13 Akron	270.6	273.9	273.7	.4	.4	.4	9.6	10.0	9.7	86.1	83.4	82.9
14 Canton	158.1	161.4	161.2	1.2	1.2	1.2	7.3	7.5	7.3	57.7	57.6	56.8
15 Cincinnati	609.3	629.0	628.4	.4	.4	.4	28.5	29.9	29.4	175.0	175.8	174.2
16 Cleveland	926.2	926.2	923.6	1.6	1.6	1.6	34.9	36.9	35.8	283.6	275.9	275.7
17 Columbus	508.3	519.5	523.7	.9	.9	.9	22.8	24.0	23.5	102.3	99.0	99.6
18 Dayton	367.1	370.0	370.1	.5	.5	.5	15.4	16.6	16.3	114.1	107.5	106.6
19 Toledo	311.0	313.0	311.9	.6	.6	.6	13.0	13.4	13.1	92.8	89.4	87.7
20 Youngstown-Warren	216.0	218.6	219.2	.5	.5	.5	9.1	9.5	9.2	81.3	79.4	79.7
<b>21 OKLAHOMA</b>	<b>1,047.2</b>	<b>1,093.3</b>	<b>1,098.5</b>	<b>55.8</b>	<b>60.0</b>	<b>60.5</b>	<b>57.6</b>	<b>59.7</b>	<b>59.6</b>	<b>175.5</b>	<b>182.5</b>	<b>184.8</b>
22 Oklahoma City	370.2	397.2	400.4	12.6	13.6	13.7	20.7	20.8	20.8	46.9	55.7	57.6
23 Tulsa	273.9	279.8	280.8	17.8	18.3	18.4	14.7	14.4	14.2	57.5	59.5	60.1
<b>24 OREGON</b>	<b>1,029.5</b>	<b>1,072.1</b>	<b>1,066.5</b>	<b>2.1</b>	<b>2.3</b>	<b>2.2</b>	<b>53.7</b>	<b>58.0</b>	<b>55.2</b>	<b>215.6</b>	<b>236.5</b>	<b>229.9</b>
25 Eugene-Springfield	106.8	106.0	104.5	(1)	(1)	(1)	6.2	5.6	5.2	21.4	21.8	20.8
26 Jackson County	-	-	-	-	-	-	-	-	-	7.9	8.2	7.8
27 Portland	538.5	550.9	553.3	(1)	(1)	(1)	28.7	28.9	28.7	108.6	118.3	117.5
28 Salem	88.1	94.3	92.1	(1)	(1)	(1)	4.8	5.0	5.0	15.4	17.4	14.8
<b>29 PENNSYLVANIA</b>	<b>4,738.2</b>	<b>4,735.7</b>	<b>4,745.5</b>	<b>53.9</b>	<b>51.4</b>	<b>52.0</b>	<b>208.7</b>	<b>203.7</b>	<b>198.7</b>	<b>1,375.3</b>	<b>1,372.6</b>	<b>1,368.6</b>
30 Allentown-Bethlehem-Easton	262.2	260.7	262.7	(1)	(1)	(1)	9.4	8.8	8.8	110.3	110.6	111.0
31 Altoona	51.9	53.1	53.0	(1)	(1)	(1)	2.1	2.2	2.2	13.1	13.2	13.2
32 Delaware Valley <sup>9</sup>	1,573.9	1,572.8	1,584.5	(1)	(1)	(1)	59.5	62.1	61.9	382.5	383.3	385.6
33 Erie	117.9	117.0	117.1	(1)	(1)	(1)	4.9	3.6	3.5	45.3	45.5	44.6
34 Harrisburg	216.3	213.4	213.2	(1)	(1)	(1)	10.0	8.5	8.4	42.2	43.3	43.0
35 Johnstown	88.8	90.1	90.3	9.6	8.8	8.8	3.1	3.2	3.1	20.3	19.8	19.9
36 Lancaster	151.1	151.2	151.9	(1)	(1)	(1)	8.5	8.5	8.3	60.1	59.4	59.4
37 Northeast Pennsylvania	243.1	239.7	240.8	1.2	1.2	1.3	13.2	12.8	12.4	72.9	69.3	70.4
38 Philadelphia SMSA	1,905.3	1,904.3	1,916.9	(1)	(1)	(1)	74.3	76.4	75.9	454.2	455.5	457.8
39 Philadelphia City <sup>10</sup>	807.0	803.7	806.7	(1)	(1)	(1)	18.5	19.6	19.4	151.4	147.1	147.9
40 Pittsburgh	950.2	948.3	948.0	12.0	10.9	10.9	53.6	50.8	49.1	253.0	253.1	252.2
41 Reading	138.4	141.9	142.8	(1)	(1)	(1)	5.5	5.6	5.6	54.2	54.6	55.0
42 Scranton <sup>11</sup>	86.9	87.1	87.9	(1)	(1)	(1)	2.2	2.4	2.3	28.5	28.5	29.3
43 Wilkes-Barre-Hazleton <sup>12</sup>	126.9	123.3	123.3	1.1	1.2	1.2	9.5	8.8	8.7	35.9	36.3	36.3
44 Williamsport	50.2	49.3	49.3	(1)	(1)	(1)	2.0	2.1	2.2	18.3	17.4	17.0
45 York	152.9	154.3	151.4	(1)	(1)	(1)	7.2	7.3	6.9	64.8	66.6	63.2
<b>46 RHODE ISLAND</b>	<b>409.6</b>	<b>405.2</b>	<b>406.5</b>	<b>(1)</b>	<b>(1)</b>	<b>(1)</b>	<b>15.9</b>	<b>14.6</b>	<b>14.2</b>	<b>139.7</b>	<b>136.7</b>	<b>136.4</b>
47 Providence-Warwick-Pawtucket	421.8	415.7	417.1	(1)	(1)	(1)	16.1	14.8	14.4	156.2	152.9	152.5
<b>48 SOUTH CAROLINA</b>	<b>1,150.9</b>	<b>1,174.0</b>	<b>1,175.8</b>	<b>1.9</b>	<b>1.9</b>	<b>2.0</b>	<b>67.6</b>	<b>65.2</b>	<b>64.4</b>	<b>394.8</b>	<b>393.8</b>	<b>393.3</b>
49 Charleston-North Charleston	141.6	144.9	145.1	(1)	(1)	(1)	11.1	11.2	11.2	19.2	19.3	19.2
50 Columbia	174.6	177.5	177.6	(1)	(1)	(1)	8.5	7.9	7.7	26.1	27.1	26.8
51 Greenville-Spartanburg	258.2	260.0	259.2	(1)	(1)	(1)	15.3	16.5	16.2	105.4	104.3	103.6
<b>52 SOUTH DAKOTA</b>	<b>234.4</b>	<b>240.7</b>	<b>238.3</b>	<b>2.6</b>	<b>2.9</b>	<b>2.9</b>	<b>13.3</b>	<b>13.7</b>	<b>12.8</b>	<b>25.0</b>	<b>26.5</b>	<b>26.6</b>
53 Rapid City	28.8	29.9	29.1	(2)	(2)	(2)	2.9	3.1	2.9	2.7	3.2	3.2
54 Sioux Falls	53.3	53.0	52.4	(2)	(2)	(2)	3.9	3.0	2.8	7.3	7.9	7.8
<b>55 TENNESSEE</b>	<b>1,741.6</b>	<b>1,740.8</b>	<b>1,737.8</b>	<b>10.3</b>	<b>10.3</b>	<b>10.1</b>	<b>93.0</b>	<b>97.0</b>	<b>96.3</b>	<b>525.4</b>	<b>518.8</b>	<b>515.5</b>
56 Chattanooga	169.0	168.0	168.0	1.3	1.4	1.4	7.3	7.0	6.8	55.7	53.8	53.5
57 Knoxville	199.4	197.2	197.4	1.6	1.2	1.3	12.8	12.5	12.1	54.4	53.2	53.0
58 Memphis	355.0	355.0	354.3	.1	.2	.2	13.7	14.3	14.4	64.0	63.5	61.2
59 Nashville-Davidson	358.3	355.6	355.9	(1)	(1)	(1)	21.9	21.4	21.4	82.2	80.8	80.3

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			
NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	
3.4	3.4	3.4	17.1	17.6	17.5	2.4	2.4	2.4	16.6	16.6	16.6	21.0	21.1	21.4	1
14.7	15.0	15.0	58.6	59.3	59.6	15.2	15.5	15.4	53.2	53.6	53.8	48.9	49.2	49.6	2
4.0	4.1	4.1	22.2	22.2	22.1	5.4	5.5	5.4	19.7	21.1	20.6	29.6	29.4	29.4	3
17.8	17.9	17.9	80.7	80.8	82.1	16.6	16.7	16.8	80.7	82.9	82.2	53.3	53.4	54.6	4
109.8	114.1	113.9	455.5	470.3	473.5	85.8	89.3	89.9	316.8	336.9	334.5	412.2	415.7	419.2	5
3.6	3.6	3.6	14.4	14.2	14.3	2.3	2.2	2.2	11.6	12.9	12.6	11.3	11.4	11.6	6
29.2	29.9	30.0	77.8	78.9	80.0	19.8	19.9	20.0	46.0	47.1	46.4	37.6	36.7	37.0	7
21.0	21.3	21.2	78.0	78.5	79.9	17.3	17.9	17.7	54.4	56.2	56.1	46.2	46.7	47.0	8
12.4	13.3	13.3	49.7	50.2	51.4	14.6	14.8	14.9	52.7	55.3	55.8	71.1	72.0	71.5	9
15.4	16.4	16.5	66.2	68.7	68.8	10.7	11.2	11.2	45.8	47.8	47.8	59.6	60.0	60.2	10
4.2	4.4	4.5	19.2	19.5	19.7	3.7	3.9	4.0	13.4	14.0	14.1	12.4	12.4	12.4	11
233.0	238.8	239.1	984.0	999.2	1,011.6	193.9	203.0	203.4	783.7	831.6	827.8	664.1	648.4	651.8	12
14.6	15.3	15.2	60.7	62.3	63.1	9.3	9.7	9.7	46.7	50.1	49.3	43.3	42.8	43.4	13
7.4	7.6	7.6	34.4	35.7	36.1	5.6	5.9	5.9	27.5	29.2	29.2	17.0	16.7	17.1	14
34.1	36.4	36.6	141.2	144.7	146.5	30.8	32.3	32.4	115.6	128.2	127.1	83.8	81.4	81.8	15
48.8	50.1	50.3	214.0	218.3	220.0	45.8	46.6	46.4	182.0	191.9	192.2	115.4	105.0	101.6	16
26.1	27.4	27.6	124.3	127.2	130.0	34.9	37.1	37.1	97.9	104.2	103.9	99.1	99.7	101.1	17
13.2	14.2	14.3	77.5	79.3	80.3	12.7	13.2	13.2	67.4	71.5	71.7	66.3	67.3	67.4	18
21.5	22.1	22.0	69.9	71.3	72.3	10.1	10.6	10.6	56.4	60.0	59.6	46.6	45.7	45.9	19
10.3	10.5	10.5	46.6	48.4	48.7	6.8	7.0	7.0	35.3	37.0	36.9	26.1	26.4	26.7	20
61.8	64.0	64.1	251.3	257.8	260.3	50.8	53.3	53.1	172.4	184.4	184.2	222.0	231.6	231.9	21
22.0	22.5	22.7	90.6	96.8	97.8	23.1	24.4	24.3	63.4	67.9	68.0	88.9	95.5	95.5	22
20.6	21.5	21.6	67.2	66.8	67.5	13.8	14.2	14.2	53.1	55.5	55.4	29.2	29.6	29.4	23
58.8	60.7	60.6	253.2	263.4	265.5	65.4	68.2	67.9	174.7	180.0	178.6	202.0	203.0	206.6	24
5.3	5.5	5.4	26.2	26.0	25.8	5.2	5.2	5.2	18.4	19.0	18.5	24.1	22.9	23.6	25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
34.9	35.5	35.5	139.7	138.8	141.0	41.5	43.0	42.8	102.1	103.9	103.5	83.0	82.5	84.3	27
3.3	3.3	3.2	18.5	19.0	19.1	5.3	5.5	5.5	14.0	15.0	14.8	26.8	29.1	29.7	28
269.2	271.2	269.9	998.6	972.1	983.1	229.5	237.2	237.6	902.3	931.7	928.4	700.7	695.8	707.2	29
13.9	14.2	14.3	50.3	49.3	50.3	8.3	8.6	8.6	39.4	39.7	40.0	30.6	29.5	29.7	30
8.1	7.6	7.5	11.6	12.5	12.6	1.3	1.3	1.3	8.4	8.8	8.7	7.3	7.5	7.5	31
84.4	83.5	83.0	339.4	333.1	336.7	105.2	107.1	107.8	369.7	371.0	373.3	233.2	232.7	236.2	32
5.4	5.1	5.2	23.3	24.8	25.1	4.4	4.5	4.5	19.8	19.8	19.7	14.8	13.7	14.5	33
15.9	16.1	16.2	45.1	43.3	43.6	12.2	11.9	11.9	34.9	35.3	35.1	56.0	55.0	55.0	34
5.4	5.7	5.7	16.9	17.1	17.4	3.6	3.8	3.8	15.0	15.4	15.3	14.9	16.3	16.3	35
6.6	6.5	6.4	34.4	34.8	35.3	5.2	5.4	5.5	20.9	21.7	21.7	15.4	14.9	15.3	36
13.5	13.8	13.7	53.7	51.8	52.2	9.4	9.5	9.4	40.8	42.1	42.1	38.4	39.2	39.3	37
100.0	99.2	98.6	425.8	417.1	421.6	120.5	122.9	123.9	434.4	437.7	439.9	296.1	295.5	299.2	38
56.5	56.4	56.0	158.9	155.9	157.0	68.6	69.9	69.9	209.8	210.5	210.9	143.3	144.3	145.6	39
58.1	58.3	58.7	212.5	213.5	215.3	43.9	44.6	44.3	198.1	198.1	198.0	119.0	119.0	119.8	40
6.5	6.6	6.5	27.3	28.1	28.3	5.7	6.0	6.1	22.4	23.7	23.7	16.8	17.3	17.6	41
4.7	4.8	4.8	20.3	19.5	19.8	3.3	3.4	3.4	16.4	16.7	16.8	11.5	11.8	11.5	42
6.8	6.9	6.8	28.2	26.9	27.1	5.2	5.3	5.2	17.7	18.4	18.4	18.5	19.5	19.6	43
2.5	2.5	2.5	10.8	10.6	10.8	1.9	2.0	2.0	7.6	7.9	7.9	7.1	6.8	6.9	44
7.0	6.6	6.6	31.9	31.3	31.7	3.9	4.1	4.2	19.4	19.6	19.7	18.7	18.8	19.1	45
13.6	13.3	13.3	82.5	81.0	82.3	20.1	20.8	20.8	77.2	78.2	78.4	60.6	60.6	61.1	46
13.5	13.3	13.2	84.1	81.5	82.9	20.4	21.0	21.0	73.9	74.9	75.2	57.6	57.3	57.9	47
50.8	52.1	52.1	216.9	224.7	226.7	44.3	46.8	46.7	145.3	159.3	157.0	229.3	230.2	233.6	48
8.3	8.9	8.9	31.0	31.2	31.4	5.9	6.2	6.1	21.6	23.7	23.7	44.5	44.4	44.6	49
8.8	9.2	9.2	39.1	38.8	39.2	13.0	13.7	13.7	25.9	26.2	26.4	53.2	54.6	54.6	50
10.3	10.2	10.1	50.9	50.0	50.8	8.7	8.8	8.8	33.5	35.3	35.3	34.1	34.7	34.6	51
13.5	13.8	13.7	63.4	65.0	64.3	11.0	11.8	11.8	48.5	49.3	48.4	57.1	57.7	57.8	52
1.9	1.9	1.8	8.3	8.5	8.4	1.3	1.4	1.4	6.1	5.9	5.5	5.6	5.9	5.9	53
5.1	4.9	4.9	15.2	15.5	15.4	2.9	3.2	3.1	12.2	11.7	11.7	6.7	6.8	6.7	54
83.3	82.5	83.5	380.1	369.3	370.9	72.8	74.7	74.5	266.7	277.0	274.3	310.0	311.2	312.7	55
6.7	6.8	6.9	30.6	29.8	29.7	9.5	9.9	9.8	26.4	26.2	26.4	31.5	33.1	33.5	56
7.7	7.9	7.9	42.4	41.5	41.9	7.9	8.2	8.2	30.5	30.7	30.7	42.1	42.0	42.3	57
25.9	26.5	26.3	96.1	93.4	94.6	18.7	19.2	19.1	68.2	70.8	70.4	68.3	67.1	68.1	58
19.2	19.5	19.5	81.8	79.7	80.2	22.2	22.5	22.5	67.0	67.1	66.8	64.0	64.6	65.2	59

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
1 TEXAS .....	5,369.6	5,594.1	5,617.3	185.5	199.2	200.7	391.2	411.2	410.3	976.1	1,007.3	1,011.6
2 Amarillo .....	72.2	74.4	75.0	(1)	(1)	(1)	5.1	5.6	5.6	8.8	9.7	9.7
3 Austin .....	221.0	230.0	231.0	(1)	(1)	(1)	13.2	14.4	14.6	27.0	28.2	28.5
4 Beaumont-Port Arthur-Orange .....	146.7	145.1	145.3	(1)	(1)	(1)	15.4	14.7	14.8	41.5	42.2	42.0
5 Corpus Christi .....	112.4	112.8	113.8	5.0	5.3	5.3	12.4	11.9	11.5	13.8	13.9	13.8
6 Dallas-Fort Worth .....	1,313.6	1,387.0	1,391.6	20.2	21.5	21.6	70.2	77.1	76.1	292.3	305.2	306.7
7 El Paso .....	152.7	155.3	157.5	(1)	(1)	(1)	8.9	7.7	8.3	31.6	30.8	31.5
8 Galveston-Texas City .....	68.0	67.8	67.8	(1)	(1)	(1)	5.1	4.9	4.9	12.1	12.0	12.0
9 Houston .....	1,289.0	1,332.5	1,339.2	62.4	63.8	63.8	139.4	139.0	140.6	212.1	219.1	219.8
10 Lubbock .....	89.9	89.9	90.2	(1)	(1)	(1)	5.5	5.6	5.5	13.3	12.8	12.8
11 San Antonio .....	367.2	375.3	376.1	1.9	1.9	1.9	23.7	25.2	25.0	46.8	47.5	48.0
12 Waco .....	66.8	68.7	69.3	(1)	(1)	(1)	3.4	3.3	3.3	16.1	17.3	17.5
13 Wichita Falls .....	49.6	50.7	50.7	2.6	2.5	2.5	2.4	2.8	2.8	5.1	9.6	9.5
14 UTAH .....	546.2	574.6	576.2	16.9	18.0	18.2	36.9	39.7	37.6	83.4	87.8	88.8
15 Salt Lake City-Ogden .....	386.6	406.6	407.7	7.2	7.6	7.6	25.3	27.5	26.3	56.2	59.5	60.2
16 VERMONT .....	193.5	200.3	197.6	.8	.9	.8	10.6	10.6	10.0	48.8	50.3	49.6
17 Burlington .....	52.9	55.6	55.7	-	-	-	-	-	-	13.0	13.8	13.8
18 Springfield .....	14.0	14.5	14.6	-	-	-	-	-	-	5.9	6.1	6.2
19 VIRGINIA .....	2,085.2	2,124.4	2,128.5	24.3	23.5	23.6	136.5	139.8	137.3	416.6	420.7	419.9
20 Bristol .....	28.0	28.0	28.3	(1)	(1)	(1)	1.5	1.6	1.5	10.1	9.8	9.7
21 Lynchburg .....	69.8	73.5	73.6	(1)	(1)	(1)	3.6	4.0	3.8	25.3	30.1	29.8
22 Newport News-Hampton .....	144.8	149.9	149.7	(1)	(1)	(1)	8.4	8.5	8.2	32.9	33.4	33.5
23 Norfolk-Virginia Beach-Portsmouth .....	281.8	283.2	282.5	(1)	(1)	(1)	20.1	19.7	19.1	29.3	30.3	30.0
24 Northern Virginia .....	413.5	420.3	422.2	.3	.4	.4	28.6	27.8	27.3	15.8	16.3	16.5
25 Petersburg-Colonial Hgts.-Hopewell .....	47.6	47.2	47.6	(1)	(1)	(1)	2.6	2.5	2.6	11.9	11.3	11.4
26 Richmond .....	321.8	323.3	324.3	.4	.4	.4	19.7	18.4	18.2	54.5	55.4	55.7
27 Roanoke .....	105.9	104.5	104.8	.2	.1	.1	6.2	6.0	6.0	21.4	20.6	20.7
28 WASHINGTON .....	1,557.2	1,641.3	(*)	3.1	3.2	(*)	103.7	112.5	(*)	293.5	316.8	(*)
29 Seattle-Everett .....	731.7	786.2	(*)	(1)	(1)	(*)	44.7	53.8	(*)	153.8	170.4	(*)
30 Spokane .....	126.9	130.8	(*)	(1)	(1)	(*)	7.2	8.2	(*)	17.9	18.8	(*)
31 Tacoma .....	136.9	143.0	(*)	(1)	(1)	(*)	9.0	10.1	(*)	21.5	22.2	(*)
32 WEST VIRGINIA .....	639.7	639.9	639.1	75.6	67.8	66.9	42.3	42.3	41.7	126.5	124.6	123.8
33 Charleston .....	111.0	114.5	114.6	6.9	6.9	6.5	7.3	7.4	7.4	15.6	19.1	19.1
34 Huntington-Ashland .....	104.7	104.6	105.0	1.0	1.0	1.1	6.8	7.1	7.0	29.3	28.7	28.5
35 Parkersburg-Marietta .....	57.7	57.9	58.2	.5	.5	.5	4.3	4.5	4.5	16.2	17.6	17.7
36 Wheeling .....	67.4	65.2	64.5	7.2	6.4	5.6	4.6	3.7	3.7	13.6	13.3	13.4
37 WISCONSIN .....	1,933.8	2,007.3	2,002.4	2.8	3.0	2.8	91.3	95.2	91.1	571.5	583.3	579.1
38 Appleton-Oshkosh .....	125.6	131.1	130.9	(1)	(1)	(1)	7.1	7.4	6.9	48.4	50.4	50.1
39 Eau Claire .....	45.1	45.9	45.9	(1)	(1)	(1)	1.8	1.8	1.7	8.9	8.6	8.4
40 Green Bay .....	76.8	78.8	78.4	(1)	(1)	(1)	3.9	4.0	3.8	21.5	21.5	21.3
41 Kenosha .....	44.5	45.5	46.0	(1)	(1)	(1)	1.5	1.4	1.4	18.5	19.2	19.6
42 La Crosse .....	42.3	43.6	43.6	(1)	(1)	(1)	1.8	2.2	2.1	10.6	10.8	10.9
43 Madison .....	161.0	169.5	170.8	(1)	(1)	(1)	7.9	8.5	8.3	18.8	19.3	19.3
44 Milwaukee .....	669.7	689.0	690.9	(1)	(1)	(1)	25.6	26.4	25.8	213.1	215.0	214.2
45 Racine .....	70.0	72.4	72.2	(1)	(1)	(1)	2.6	2.4	2.3	30.8	31.6	31.6
46 WYOMING .....	195.9	221.2	221.2	30.2	34.9	35.4	23.3	27.1	25.8	10.1	11.6	10.9
47 Casper .....	39.1	48.4	48.8	8.2	11.4	11.6	4.3	6.4	6.4	1.7	1.9	1.9
48 Cheyenne .....	26.2	29.0	28.8	(1)	(1)	(1)	2.1	3.1	2.9	1.5	2.0	2.1

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

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

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

<sup>4</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

<sup>5</sup> Subarea of New York-Northeastern New Jersey.

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

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

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

<sup>9</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

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

<sup>11</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lack-

awanna County.

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

<sup>13</sup> Total includes data for industry divisions not shown separately.

<sup>14</sup> Revised to December 1978 benchmark; not strictly comparable with previously published data.

<sup>15</sup> Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

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			
NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	
340.7	354.4	354.7	1,310.6	1,345.5	1,355.4	301.4	314.2	315.1	902.1	945.3	947.7	962.0	1,017.0	1,021.8	1
6.8	6.9	6.9	21.8	21.6	22.1	3.7	3.6	3.7	13.9	14.6	14.6	12.1	12.4	12.4	2
6.7	6.6	6.6	44.9	47.9	47.9	13.2	13.7	13.8	36.2	38.3	38.3	79.8	80.9	81.3	3
10.7	10.6	10.7	31.9	29.7	30.1	5.3	5.4	5.3	23.6	23.7	23.4	18.3	18.8	19.0	4
6.4	6.4	6.6	26.1	25.8	26.9	5.2	5.6	5.6	17.6	18.2	18.2	25.9	25.7	25.9	5
84.9	91.4	91.7	345.4	369.6	374.5	96.0	101.1	101.3	228.1	244.0	242.5	176.5	177.1	177.2	6
10.2	10.5	10.4	37.7	39.1	39.3	6.9	7.3	7.3	25.0	26.2	26.7	32.4	33.7	34.0	7
6.7	6.8	6.8	12.9	12.8	12.9	4.4	4.5	4.5	10.3	10.5	10.4	16.5	16.3	16.3	8
96.0	99.1	99.0	311.0	317.3	320.1	76.9	80.6	80.9	247.6	261.7	262.8	143.6	151.9	152.2	9
5.0	5.0	5.2	26.4	26.3	26.4	4.4	4.7	4.6	15.7	16.4	16.3	19.6	19.1	19.4	10
16.1	16.9	16.8	91.9	93.3	93.5	24.3	25.0	24.8	68.7	71.3	71.7	93.8	94.2	94.4	11
3.2	3.3	3.2	15.8	15.8	16.1	3.7	4.1	4.2	13.6	14.3	14.2	11.0	10.6	10.8	12
2.4	2.4	2.4	12.2	12.4	12.5	2.2	2.3	2.3	7.5	7.5	7.5	11.2	11.2	11.2	13
33.2	35.0	35.1	134.3	137.0	139.5	25.1	26.3	26.3	92.9	104.3	103.3	123.5	126.7	127.3	14
26.4	27.7	27.8	99.9	101.9	104.2	20.4	21.5	21.5	63.2	71.4	70.6	87.9	89.5	89.7	15
8.8	9.1	9.1	40.5	42.1	41.9	7.3	7.7	7.7	40.7	42.9	41.5	36.0	36.7	37.0	16
2.2	2.2	2.2	11.6	12.1	12.3	-	-	-	10.4	11.7	11.4	-	-	-	17
.8	.7	.7	2.1	2.2	2.3	-	-	-	2.5	2.6	2.6	-	-	-	18
112.6	114.8	115.1	445.0	444.0	452.5	98.8	105.0	104.3	362.2	378.3	375.5	489.2	498.3	500.3	19
1.0	1.0	1.1	6.4	6.5	6.7	.9	.9	1.0	3.3	3.4	3.4	4.8	4.8	4.9	20
2.4	2.7	2.7	11.9	12.3	12.7	3.1	3.5	3.5	9.6	10.8	10.9	9.9	10.1	10.2	21
4.8	5.0	4.9	28.0	27.7	28.1	4.8	5.0	4.9	25.5	28.3	27.7	40.4	42.0	42.4	22
17.9	17.5	17.5	69.1	70.0	70.6	14.3	14.6	14.4	50.2	50.2	49.9	80.9	80.9	81.0	23
27.3	28.7	28.7	100.4	99.5	101.4	25.2	26.0	26.0	100.1	104.1	104.7	115.8	117.5	117.2	24
1.5	1.6	1.7	9.0	8.6	8.7	1.3	1.3	1.3	5.8	6.1	6.1	15.5	15.8	15.8	25
19.5	20.1	20.1	75.1	71.9	73.0	25.1	26.0	26.1	55.1	57.0	56.5	72.4	74.1	74.3	26
10.1	10.0	10.0	26.6	26.1	26.2	5.8	5.9	6.0	19.1	19.2	19.1	16.5	16.6	16.7	27
89.6	95.6	(*)	382.9	401.9	(*)	87.5	93.0	(*)	284.5	305.1	(*)	312.4	313.2	(*)	28
49.1	52.6	(*)	179.9	189.4	(*)	50.9	54.0	(*)	135.3	147.0	(*)	118.0	119.0	(*)	29
7.9	8.0	(*)	35.0	37.4	(*)	8.0	8.1	(*)	28.8	29.0	(*)	22.1	21.3	(*)	30
6.6	6.8	(*)	33.2	34.7	(*)	6.8	7.2	(*)	28.4	29.5	(*)	31.4	32.5	(*)	31
42.0	43.8	43.5	128.5	132.8	134.2	20.5	21.4	21.5	88.9	91.4	91.1	115.5	115.8	116.2	32
9.5	9.8	9.7	25.9	28.0	28.5	4.9	4.9	4.9	18.7	19.8	19.6	18.4	18.7	16.7	33
9.5	9.5	9.5	23.4	23.3	23.8	3.7	3.7	3.8	14.2	14.3	14.3	16.8	17.0	17.2	34
2.5	2.6	2.5	12.2	12.2	12.4	1.9	1.8	1.9	8.6	8.7	8.7	9.6	10.1	10.1	35
3.8	3.7	3.7	15.5	15.2	15.2	2.4	2.5	2.5	12.6	12.8	12.7	7.7	7.7	7.8	36
91.3	93.2	93.2	448.8	474.4	479.9	86.9	92.1	92.3	340.7	364.0	361.8	300.4	302.0	302.1	37
4.3	4.5	4.5	26.6	27.6	28.0	4.8	5.2	5.2	19.3	20.2	20.1	15.1	15.9	16.1	38
2.6	2.7	2.7	11.9	12.7	12.8	1.4	1.4	1.4	9.0	9.5	9.5	9.6	9.2	9.3	39
5.4	5.6	5.5	19.5	21.1	21.1	2.7	2.8	2.8	13.8	13.7	13.7	10.0	10.2	10.2	40
2.2	1.7	1.8	8.3	8.6	8.6	.9	1.0	1.0	7.3	7.6	7.6	5.9	6.0	5.9	41
2.5	2.4	2.4	11.5	12.0	12.0	.9	1.0	1.0	8.6	9.2	9.1	6.3	6.1	6.1	42
5.8	6.1	6.1	36.1	37.7	39.3	11.8	13.0	13.2	28.0	30.0	29.9	52.7	54.9	54.8	43
33.9	35.3	35.6	153.3	158.6	161.5	35.8	36.9	37.0	133.4	142.2	142.3	74.6	74.5	74.6	44
2.3	2.3	2.3	13.0	13.4	13.4	2.1	2.3	2.3	10.6	11.1	11.0	8.5	9.2	9.3	45
15.3	17.2	17.5	44.9	50.5	52.2	6.9	7.4	7.4	25.3	29.4	29.0	39.9	43.1	43.0	46
2.7	3.0	3.0	11.1	13.7	14.1	1.4	1.5	1.5	5.2	5.7	5.7	4.5	4.8	4.6	47
3.7	3.8	3.8	6.9	8.1	8.1	1.5	1.5	1.5	3.7	3.6	3.5	6.8	6.9	6.9	48

# ESTABLISHMENT DATA HISTORICAL HOURS AND EARNINGS

C-1. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls by industry division, 1959 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 excl. overtime
	Total private <sup>2</sup>			Mining			Construction			Manufacturing		
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
1960.....	80.67	38.6	2.09	105.04	40.4	2.60	112.67	36.7	3.07	89.72	39.7	2.26
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
1962.....	85.91	38.7	2.22	110.70	41.0	2.70	122.47	37.0	3.31	96.56	40.4	2.39
1963.....	88.46	38.8	2.28	114.40	41.6	2.75	127.19	37.3	3.41	99.23	40.5	2.45
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
1965.....	95.45	38.8	2.46	123.52	42.3	2.92	138.38	37.4	3.70	107.53	41.2	2.61
1966.....	98.82	38.6	2.56	130.24	42.7	3.05	146.26	37.6	3.89	112.19	41.4	2.71
1967.....	101.84	38.0	2.68	135.89	42.6	3.19	154.95	37.7	4.11	114.49	40.6	2.82
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
1969.....	114.61	37.7	3.04	154.80	43.0	3.60	181.54	37.9	4.79	129.51	40.6	3.19
1970.....	119.83	37.1	3.23	164.40	42.7	3.85	195.45	37.3	5.24	133.33	39.8	3.35
1971.....	127.31	36.9	3.45	172.14	42.4	4.06	211.67	37.2	5.69	142.44	39.9	3.57
1972.....	136.90	37.0	3.70	189.14	42.6	4.44	221.19	36.5	6.06	154.71	40.5	3.82
1973.....	145.59	36.9	3.94	201.40	42.4	4.75	235.89	36.8	6.41	166.46	40.7	4.09
1974.....	154.76	36.5	4.24	219.14	41.9	5.23	249.25	36.6	6.81	176.80	40.0	4.42
1975.....	163.53	36.1	4.53	249.31	41.9	5.95	266.08	36.4	7.31	190.79	39.5	4.83
1976.....	175.45	36.1	4.86	273.90	42.4	6.46	283.73	36.8	7.71	209.32	40.1	5.22
1977.....	189.00	36.0	5.25	301.20	43.4	6.94	295.65	36.5	8.10	228.90	40.3	5.68
1978.....	203.70	35.8	5.69	332.11	43.3	7.67	318.32	36.8	8.65	249.27	40.4	6.17
1979P.....	219.91	35.7	6.16	365.07	43.0	8.49	341.33	36.9	9.25	268.94	40.2	6.69
1978:												
DEC.....	213.35	36.1	5.91	349.80	43.4	8.06	330.04	37.0	8.92	268.27	41.4	6.48
1979:												
JAN.....	210.14	35.2	5.97	347.68	42.4	8.20	310.71	34.6	8.98	260.25	40.1	6.49
FEB.....	212.40	35.4	6.00	349.75	42.6	8.21	319.31	35.4	9.02	262.10	40.2	6.52
MAR.....	214.91	35.7	6.02	354.78	42.9	8.27	331.89	37.0	8.97	266.34	40.6	6.56
APR.....	211.65	35.1	6.03	363.80	42.6	8.54	320.21	35.5	9.02	254.41	38.9	6.54
MAY.....	216.20	35.5	6.09	361.66	42.8	8.45	340.01	37.2	9.14	265.86	40.1	6.63
JUN.....	219.71	35.9	6.12	367.62	43.3	8.49	346.03	37.9	9.13	265.06	40.4	6.66
JUL.....	221.76	36.0	6.16	355.28	41.7	8.52	348.35	37.7	9.24	267.73	39.9	6.71
AUG.....	222.84	36.0	6.19	365.49	43.1	8.48	354.16	38.0	9.32	267.60	40.0	6.69
SEPT.....	225.90	35.8	6.31	372.80	43.5	8.57	360.43	37.9	9.51	274.04	40.3	6.80
OCT.....	225.62	35.7	6.32	374.51	43.7	8.57	356.82	37.6	9.49	274.85	40.3	6.82
NOV.P ..	225.70	35.6	6.34	381.06	43.8	8.70	346.75	36.5	9.50	277.55	40.4	6.87
DEC.P ..	229.04	35.9	6.38	384.56	43.9	8.76	353.19	37.1	9.52	285.77	41.0	6.97
	Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services		
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.....	\$118.78	41.1	\$ 2.89	74.66	37.9	1.97	85.79	37.3	2.30	\$ 70.03	36.1	\$ 1.94
1965.....	125.14	41.3	3.03	76.91	37.7	2.04	88.91	37.2	2.39	73.60	35.9	2.05
1966.....	128.13	41.2	3.11	79.39	37.1	2.14	92.13	37.3	2.47	77.04	35.5	2.17
1967.....	130.82	40.5	3.23	82.35	36.6	2.25	95.72	37.1	2.58	80.38	35.1	2.29
1968.....	138.85	40.6	3.42	87.00	36.1	2.41	101.75	37.0	2.75	83.97	34.7	2.42
1969.....	147.74	40.7	3.63	91.39	35.7	2.56	108.70	37.1	2.93	90.57	34.7	2.61
1970.....	155.93	40.5	3.85	96.02	35.3	2.72	112.67	36.7	3.07	96.66	34.4	2.81
1971.....	168.82	40.1	4.21	101.09	35.1	2.88	117.85	36.6	3.22	103.06	33.9	3.04
1972.....	187.66	40.4	4.65	106.45	34.9	3.05	122.98	36.6	3.36	110.85	33.9	3.27
1973.....	203.31	40.5	5.02	111.76	34.6	3.23	129.20	36.6	3.53	117.29	33.8	3.47
1974.....	217.48	40.2	5.41	119.02	34.2	3.48	137.61	36.5	3.77	126.00	33.6	3.75
1975.....	233.44	39.7	5.88	126.45	33.9	3.73	148.19	36.5	4.06	134.67	33.5	4.02
1976.....	256.71	39.8	6.45	133.79	33.7	3.97	155.43	36.4	4.27	143.52	33.3	4.31
1977.....	278.90	39.9	6.99	142.52	33.3	4.28	165.26	36.4	4.54	153.45	33.0	4.65
1978.....	302.60	40.0	7.57	153.64	32.9	4.67	178.36	36.4	4.90	163.67	32.8	4.99
1979P.....	325.98	39.9	8.17	164.96	32.6	5.06	191.66	36.3	5.28	175.27	32.7	5.36
1978:												
DEC.....	315.57	40.2	7.85	159.21	33.1	4.81	184.04	36.3	5.07	167.70	32.5	5.16
1979:												
JAN.....	312.84	39.6	7.90	158.72	32.0	4.96	186.73	36.4	5.13	169.45	32.4	5.23
FEB.....	316.01	39.9	7.92	159.54	32.1	4.97	188.92	36.4	5.19	170.75	32.4	5.27
MAR.....	314.42	39.8	7.90	161.35	32.4	4.98	187.31	36.3	5.16	171.48	32.6	5.26
APR.....	307.32	39.0	7.88	162.50	32.5	5.00	190.37	36.4	5.23	171.93	32.5	5.29
MAY.....	314.42	39.6	7.94	162.00	32.4	5.00	188.44	36.1	5.22	171.28	32.5	5.27
JUN.....	321.20	40.0	8.03	165.16	32.9	5.02	188.96	36.2	5.22	173.38	32.9	5.27
JUL.....	327.60	40.0	8.19	168.17	33.3	5.05	192.56	36.4	5.29	176.16	33.3	5.29
AUG.....	335.30	40.3	8.32	167.99	33.2	5.06	191.50	36.2	5.29	175.96	33.2	5.30
SEPT.....	337.16	39.9	8.45	167.75	32.7	5.13	195.29	36.3	5.38	178.22	32.7	5.45
OCT.....	337.16	39.9	8.45	167.38	32.5	5.15	194.93	36.3	5.37	178.65	32.6	5.48
NOV.P ..	339.60	40.0	8.49	167.83	32.4	5.18	197.29	36.4	5.42	180.28	32.6	5.53
DEC.P ..	343.71	40.2	8.55	170.09	32.9	5.17	199.84	36.4	5.49	182.79	32.7	5.59

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

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

p = preliminary.



# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sup>p</sup>	Dec. 1979 <sup>p</sup>	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sup>p</sup>	Dec. 1979 <sup>p</sup>
	<b>TOTAL PRIVATE</b> .....	\$210.50	\$213.35	\$225.62	\$225.70	\$229.04	\$5.88	\$5.91	\$6.32	\$6.34	\$6.38
	<b>MINING</b> .....	352.59	349.80	374.51	381.06	384.56	8.05	8.06	8.57	8.70	8.76
10	<b>METAL MINING</b> .....	362.34	367.98	396.47	402.37	-	8.71	8.72	9.67	9.79	-
101	Iron ores .....	377.52	383.10	413.56	434.58	-	9.01	8.93	9.80	10.13	-
102	Copper ores .....	371.96	387.43	427.43	429.66	-	8.92	9.01	10.01	10.23	-
11, 12	<b>COAL MINING</b> .....	415.53	401.14	427.23	429.73	-	9.87	9.76	10.27	10.38	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	416.37	401.96	428.48	430.97	-	9.89	9.78	10.30	10.41	-
13	<b>OIL AND GAS EXTRACTION</b> .....	323.73	328.33	352.56	363.43	-	7.21	7.28	7.80	7.97	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	338.23	343.62	359.31	377.22	-	8.15	8.28	8.85	8.96	-
138	Oil and gas field services .....	317.16	322.01	350.15	357.85	-	6.85	6.91	7.45	7.63	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	299.34	292.60	324.47	318.34	-	6.55	6.59	7.10	7.09	-
142	Crushed and broken stone .....	295.78	284.58	317.09	308.48	-	6.32	6.31	6.79	6.75	-
	<b>CONSTRUCTION</b> .....	324.19	330.04	356.82	346.75	353.19	8.89	8.92	9.49	9.50	9.52
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	293.81	295.56	320.32	312.92	-	8.23	8.21	8.80	8.79	-
152	Residential building construction .....	280.96	276.68	301.68	294.14	-	7.87	7.75	8.38	8.38	-
153	Operative builders .....	247.37	253.34	282.51	284.79	-	7.17	7.28	7.74	7.76	-
154	Nonresidential building construction .....	315.40	324.12	344.82	336.60	-	8.81	8.88	9.37	9.35	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	321.98	331.23	369.51	352.32	-	8.32	8.26	8.84	8.83	-
161	Highway and street construction .....	300.70	312.30	369.80	348.94	-	7.77	7.58	8.62	8.49	-
162	Heavy construction, except highway .....	333.68	339.44	369.56	353.19	-	8.60	8.55	8.97	9.01	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	341.64	349.67	370.11	360.98	-	9.49	9.58	10.14	10.14	-
171	Plumbing, heating, air conditioning .....	361.34	369.39	392.45	380.18	-	9.61	9.67	10.22	10.22	-
172	Painting, paper hanging, decorating .....	306.40	315.58	324.55	313.41	-	8.83	8.94	9.38	9.30	-
173	Electrical work .....	402.53	411.77	428.22	416.25	-	10.51	10.64	11.21	11.25	-
174	Masonry, stonework, and plastering .....	314.74	314.68	344.46	335.95	-	9.23	9.31	9.87	9.91	-
175	Carpentering and flooring .....	296.52	305.87	318.29	314.86	-	8.57	8.52	9.12	9.10	-
176	Roofing and sheet metal work .....	272.39	270.03	290.50	286.09	-	8.33	8.36	8.75	8.83	-
	<b>MANUFACTURING</b> .....	260.94	268.27	274.85	277.55	285.77	6.38	6.48	6.82	6.87	6.97
24, 25, 32-39	<b>DURABLE GOODS</b> .....	283.71	293.14	295.80	298.16	309.41	6.82	6.93	7.25	7.29	7.42
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	226.29	229.43	241.92	245.52	250.40	5.70	5.75	6.14	6.20	6.26
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	229.43	232.18	248.35	244.61	250.00	5.75	5.79	6.24	6.24	6.25
241	Logging camps and logging contractors .....	293.92	300.98	327.27	325.85	-	7.46	7.45	8.37	8.42	-
242	Sawmills and planing mills .....	243.19	245.40	262.58	252.89	-	5.99	6.00	6.42	6.37	-
2421	Sawmills and planing mills, general .....	257.22	260.16	277.43	265.99	-	6.32	6.33	6.75	6.70	-
2426	Hardwood dimension and flooring .....	166.87	169.74	176.88	175.08	-	4.10	4.13	4.40	4.41	-
243	Millwork, plywood, and structural members .....	227.03	230.92	241.96	239.68	-	5.69	5.73	6.11	6.13	-
2431	Millwork .....	213.10	216.61	233.04	234.43	-	5.45	5.47	5.87	5.95	-
2434	Wood kitchen cabinets .....	208.17	208.26	215.73	215.08	-	5.27	5.34	5.56	5.66	-
2435	Hardwood veneer and plywood .....	184.68	189.93	196.66	194.00	-	4.56	4.61	4.88	4.85	-
2436	Softwood veneer and plywood .....	293.97	299.29	310.78	300.66	-	7.17	7.16	7.75	7.67	-
244	Wooden containers .....	162.47	163.31	175.64	177.08	-	4.22	4.22	4.61	4.66	-
245	Wood buildings and mobile homes .....	206.36	201.11	218.11	215.45	-	5.36	5.45	5.68	5.73	-
2451	Mobile homes .....	201.25	195.12	219.22	215.08	-	5.31	5.42	5.65	5.69	-
249	Miscellaneous wood products .....	188.87	195.69	203.81	206.55	-	4.71	4.82	5.07	5.10	-
25	<b>FURNITURE AND FIXTURES</b> .....	189.12	194.89	204.36	204.62	209.62	4.80	4.86	5.20	5.22	5.28
251	Household furniture .....	176.73	182.74	190.42	191.30	-	4.52	4.58	4.87	4.88	-
2511	Wood household furniture .....	167.58	172.98	179.44	180.18	-	4.20	4.25	4.52	4.55	-
2512	Upholstered household furniture .....	187.98	197.11	198.78	201.24	-	4.87	4.94	5.19	5.20	-
2514	Metal household furniture .....	173.64	178.02	199.41	198.86	-	4.51	4.60	5.10	5.06	-
2515	Mattresses and bedsprings .....	191.89	195.56	211.85	208.35	-	5.09	5.16	5.46	5.44	-
252	Office furniture .....	211.64	220.25	223.04	223.11	-	5.20	5.32	5.59	5.62	-
253	Public building and related furniture .....	211.58	217.34	207.97	212.42	-	5.25	5.34	5.43	5.59	-
254	Partitions and fixtures .....	228.80	231.49	256.64	254.63	-	5.72	5.73	6.40	6.43	-
259	Miscellaneous furniture and fixtures .....	210.14	212.67	225.23	226.98	-	5.28	5.33	5.79	5.82	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sup>P</sup>	Dec. 1979 <sup>P</sup>	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sup>P</sup>	Dec. 1979 <sup>P</sup>
	<b>TOTAL PRIVATE</b> .....	35.8	36.1	35.7	35.6	35.9	-	-	-	-	-
	<b>MINING</b> .....	43.8	43.4	43.7	43.8	43.9	-	-	-	-	-
10	<b>METAL MINING</b> .....	41.6	42.2	41.0	41.1	-	-	-	-	-	-
101	Iron ores .....	41.9	42.9	42.2	42.9	-	-	-	-	-	-
102	Copper ores .....	41.7	43.0	42.7	42.0	-	-	-	-	-	-
11, 12	<b>COAL MINING</b> .....	42.1	41.1	41.6	41.4	-	-	-	-	-	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	42.1	41.1	41.6	41.4	-	-	-	-	-	-
13	<b>OIL AND GAS EXTRACTION</b> .....	44.9	45.1	45.2	45.6	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	41.5	41.5	40.6	42.1	-	-	-	-	-	-
138	Oil and gas field services .....	46.3	46.6	47.0	46.9	-	-	-	-	-	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	45.7	44.4	45.7	44.9	-	-	-	-	-	-
142	Crushed and broken stone .....	46.8	45.1	46.7	45.7	-	-	-	-	-	-
	<b>CONSTRUCTION</b> .....	36.5	37.0	37.6	36.5	37.1	-	-	-	-	-
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	35.7	36.0	36.4	35.6	-	-	-	-	-	-
152	Residential building construction .....	35.7	35.7	36.0	35.1	-	-	-	-	-	-
153	Operative builders .....	34.5	34.8	36.5	36.7	-	-	-	-	-	-
154	Nonresidential building construction .....	35.8	36.5	36.8	36.0	-	-	-	-	-	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	38.7	40.1	41.8	39.9	-	-	-	-	-	-
161	Highway and street construction .....	38.7	41.2	42.9	41.1	-	-	-	-	-	-
162	Heavy construction, except highway .....	38.8	39.7	41.2	39.2	-	-	-	-	-	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	36.0	36.5	36.5	35.6	-	-	-	-	-	-
171	Plumbing, heating, air conditioning .....	37.6	38.2	38.4	37.2	-	-	-	-	-	-
172	Painting, paper hanging, decorating .....	34.7	35.3	34.6	33.7	-	-	-	-	-	-
173	Electrical work .....	38.3	38.7	38.2	37.0	-	-	-	-	-	-
174	Masonry, stonework, and plastering .....	34.1	33.8	34.9	33.9	-	-	-	-	-	-
175	Carpentering and flooring .....	34.6	35.9	34.9	34.6	-	-	-	-	-	-
176	Roofing and sheet metal work .....	32.7	32.3	33.2	32.4	-	-	-	-	-	-
	<b>MANUFACTURING</b> .....	40.9	41.4	40.3	40.4	41.0	3.8	3.9	3.4	3.4	3.4
24, 25, 32-39	<b>DURABLE GOODS</b> .....	41.6	42.3	40.8	40.9	41.7	4.1	4.3	3.5	3.5	3.5
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	39.7	39.9	39.4	39.6	40.0	3.3	3.3	3.2	3.3	3.3
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	39.9	40.1	39.8	39.2	40.0	3.7	3.8	3.7	3.2	-
241	Logging camps and logging contractors .....	39.4	40.4	39.1	38.7	-	4.1	4.8	4.8	3.9	-
242	Sawmills and planing mills .....	40.6	40.9	40.9	39.7	-	4.6	4.6	4.5	3.8	-
2421	Sawmills and planing mills, general .....	40.7	41.1	41.1	39.7	-	4.8	4.8	4.8	4.0	-
2426	Hardwood dimension and flooring .....	40.7	41.1	40.2	39.7	-	3.6	3.8	3.4	3.3	-
243	Millwork, plywood, and structural members .....	39.9	40.3	39.6	39.1	-	3.3	3.5	3.0	2.7	-
2431	Millwork .....	39.1	39.6	39.7	39.4	-	2.3	2.7	2.0	1.8	-
2434	Wood kitchen cabinets .....	39.5	39.0	38.8	38.0	-	2.5	2.8	2.0	1.9	-
2435	Hardwood veneer and plywood .....	40.5	41.2	40.3	40.0	-	3.9	3.9	4.0	4.0	-
2436	Softwood veneer and plywood .....	41.0	41.8	40.1	39.2	-	5.0	5.0	4.8	4.0	-
244	Wooden containers .....	38.5	38.7	38.1	38.0	-	3.0	3.1	2.7	2.5	-
245	Wood buildings and mobile homes .....	38.5	36.9	38.4	37.6	-	2.3	2.1	2.4	2.0	-
2451	Mobile homes .....	37.9	36.0	38.8	37.8	-	1.8	1.6	2.1	1.8	-
249	Miscellaneous wood products .....	40.1	40.6	40.2	40.5	-	3.5	3.6	3.6	3.7	-
25	<b>FURNITURE AND FIXTURES</b> .....	39.4	40.1	39.3	39.2	39.7	2.7	3.0	2.6	2.4	-
251	Household furniture .....	39.1	39.9	39.1	39.2	-	2.6	2.9	2.5	2.4	-
2511	Wood household furniture .....	39.9	40.7	39.7	39.6	-	3.4	3.6	3.0	2.9	-
2512	Upholstered household furniture .....	38.6	39.9	38.3	38.7	-	1.9	2.5	1.9	1.8	-
2514	Metal household furniture .....	38.5	38.7	39.1	39.3	-	1.6	1.6	1.6	1.6	-
2515	Mattresses and bedsprings .....	37.7	37.9	38.8	38.3	-	2.1	2.4	3.1	2.4	-
252	Office furniture .....	40.7	41.4	39.9	39.7	-	2.8	3.3	2.4	2.2	-
253	Public building and related furniture .....	40.3	40.7	38.3	38.0	-	2.8	3.0	2.5	2.6	-
254	Partitions and fixtures .....	40.0	40.4	40.1	39.6	-	3.0	3.0	3.4	3.1	-
259	Miscellaneous furniture and fixtures .....	39.8	39.9	38.9	39.0	-	2.6	3.0	2.5	2.2	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	\$275.33	\$277.68	\$291.90	\$294.40	\$296.52	\$6.54	\$6.58	\$7.00	\$7.06	\$7.06
321	Flat glass	372.96	402.55	361.47	368.92	-	8.40	8.62	8.71	9.02	-
322	Glass and glassware, pressed or blown	273.51	280.17	290.40	296.94	-	6.77	6.85	7.26	7.35	-
3221	Glass containers	283.61	293.15	304.27	306.73	-	7.02	7.03	7.55	7.63	-
3229	Pressed and blown glass, nec	260.18	262.68	273.53	284.61	-	6.44	6.60	6.89	7.01	-
323	Products of purchased glass	277.77	278.38	262.85	267.32	-	6.49	6.55	6.49	6.52	-
324	Cement, hydraulic	404.32	380.75	412.85	429.41	-	9.21	8.98	9.76	10.08	-
325	Structural clay products	219.12	221.76	235.41	235.82	-	5.28	5.28	5.70	5.71	-
326	Pottery and related products	213.20	216.91	225.15	228.45	-	5.33	5.45	5.70	5.74	-
327	Concrete, gypsum, and plaster products	278.63	276.90	307.65	303.86	-	6.51	6.50	7.04	7.05	-
3271	Concrete block and brick	260.89	254.75	284.16	278.60	-	5.97	5.98	6.40	6.39	-
3272	Concrete products, nec	242.76	241.92	266.28	262.29	-	5.78	5.76	6.31	6.26	-
3273	Ready-mixed concrete	305.83	304.80	340.89	334.03	-	7.23	7.24	7.73	7.75	-
329	Misc. nonmetallic mineral products	277.56	283.62	290.65	295.26	-	6.44	6.55	6.97	7.03	-
3291	Abrasive products	261.65	268.69	271.08	276.49	-	6.32	6.49	6.71	6.81	-
3292	Asbestos products	294.81	300.79	300.24	297.02	-	6.61	6.64	7.20	7.14	-
33	<b>PRIMARY METAL INDUSTRIES</b>	359.54	363.80	372.19	377.29	382.42	8.52	8.56	9.10	9.27	9.35
331	Blast furnace and basic steel products	410.48	408.10	424.00	435.41	-	9.82	9.81	10.60	10.94	-
3312	Blast furnaces and steel mills	422.24	418.78	434.72	448.33	-	10.15	10.14	10.95	11.35	-
3317	Steel pipe and tubes	330.54	337.55	356.04	349.34	-	7.87	7.98	8.60	8.69	-
332	Iron and steel foundries	319.27	339.34	317.60	311.52	-	7.53	7.66	7.69	7.73	-
3321	Gray iron foundries	324.78	353.58	312.29	305.34	-	7.66	7.84	7.73	7.73	-
3322	Malleable iron foundries	335.37	354.01	342.19	343.20	-	8.14	8.31	8.47	8.58	-
3325	Steel foundries, nec	305.73	306.74	334.85	325.36	-	7.16	7.15	7.68	7.71	-
333	Primary nonferrous metals	375.20	376.74	414.54	413.25	-	8.87	8.97	9.87	9.91	-
3334	Primary aluminum	391.25	394.42	432.43	423.23	-	9.36	9.55	10.37	10.45	-
335	Nonferrous rolling and drawing	328.74	332.34	346.38	356.40	-	7.54	7.64	8.15	8.25	-
3351	Copper rolling and drawing	303.02	305.64	322.59	324.32	-	6.95	7.01	7.45	7.49	-
3353	Aluminum sheet, plate, and foil	401.65	404.05	399.51	416.99	-	9.17	9.31	9.65	9.72	-
3357	Nonferrous wire drawing and insulating	309.60	315.23	321.64	332.98	-	7.15	7.23	7.64	7.78	-
336	Nonferrous foundries	263.94	276.64	277.02	274.57	-	6.36	6.54	6.84	6.83	-
3361	Aluminum foundries	275.81	291.29	285.01	282.46	-	6.63	6.87	7.02	6.94	-
34	<b>FABRICATED METAL PRODUCTS</b>	270.76	279.36	285.36	286.30	297.20	6.54	6.62	6.96	7.00	7.11
341	Metal cans and shipping containers	356.56	360.77	397.67	408.04	-	8.37	8.39	9.10	9.19	-
3411	Metal cans	368.07	371.09	412.16	422.31	-	8.62	8.65	9.41	9.49	-
342	Cutlery, hand tools, and hardware	252.55	261.45	270.55	267.46	-	6.19	6.30	6.73	6.72	-
3423, 5	Hand and edge tools, and hand saws and blades	243.81	250.28	268.96	268.21	-	6.02	6.06	6.56	6.59	-
3429	Hardware, nec	261.12	273.14	276.71	269.49	-	6.40	6.55	6.97	6.91	-
343	Plumbing and heating, except electric	229.20	230.98	252.75	249.64	-	5.73	5.76	6.21	6.21	-
3432	Plumbing fittings and brass goods	225.84	222.24	246.22	242.80	-	5.59	5.57	6.02	6.01	-
3433	Heating equipment, except electric	224.53	231.09	243.60	238.60	-	5.67	5.72	6.09	6.01	-
344	Fabricated structural metal products	251.91	258.93	276.62	281.67	-	6.22	6.30	6.78	6.87	-
3441	Fabricated structural metal	272.83	275.98	296.74	302.73	-	6.59	6.65	7.22	7.33	-
3442	Metal doors, sash, and trim	197.79	201.79	216.40	221.45	-	5.02	5.07	5.41	5.55	-
3443	Fabricated plate work (boiler shops)	276.35	286.06	312.57	324.00	-	6.79	6.86	7.46	7.57	-
3444	Sheet metal work	251.70	258.56	272.12	269.00	-	6.34	6.40	6.82	6.81	-
3446	Architectural metal work	246.24	255.42	261.14	265.61	-	6.05	6.14	6.48	6.51	-
345	Screw machine products, bolts, etc.	269.63	274.56	281.11	282.63	-	6.17	6.24	6.63	6.65	-
3451	Screw machine products	248.09	252.29	260.15	259.76	-	5.81	5.84	6.15	6.17	-
3452	Bolts, nuts, rivets, and washers	291.44	296.58	303.31	305.16	-	6.52	6.62	7.12	7.13	-
346	Metal forgings and stampings	326.83	345.10	318.30	313.22	-	7.69	7.79	7.84	7.85	-
3462	Iron and steel forgings	357.70	375.75	346.98	336.96	-	8.28	8.35	8.74	8.64	-
3465	Automotive stampings	400.58	435.24	372.27	364.72	-	9.23	9.30	9.33	9.40	-
3469	Metal stampings, nec	238.88	240.86	255.64	256.88	-	5.77	5.79	6.16	6.25	-
347	Metal services, nec	213.96	218.24	230.61	230.68	-	5.27	5.31	5.68	5.71	-
3471	Plating and polishing	205.23	210.23	221.35	221.45	-	5.08	5.14	5.52	5.55	-
3479	Metal coating and allied services	233.86	236.97	250.20	250.47	-	5.69	5.71	6.00	6.05	-
348	Ordinance and accessories, nec	256.64	264.86	284.82	291.46	-	6.40	6.46	6.93	7.04	-
3483	Ammunition, exc. for small arms, nec	232.86	243.97	254.08	264.77	-	6.08	6.13	6.40	6.57	-
349	Misc. fabricated metal products	256.27	264.39	271.17	275.88	-	6.19	6.28	6.63	6.68	-
3494	Valves and pipe fittings	278.38	286.18	291.99	301.46	-	6.55	6.64	7.07	7.11	-
3496	Misc. fabricated wire products	223.16	230.04	236.23	237.46	-	5.51	5.57	5.79	5.82	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	297.93	311.74	309.92	315.51	328.19	7.01	7.15	7.45	7.53	7.65
351	Engines and turbines	351.90	368.90	362.80	364.00	-	8.28	8.50	9.07	9.01	-
3511	Turbines and turbine generator sets	317.75	325.44	327.13	336.98	-	7.62	7.88	8.24	8.30	-
3519	Internal combustion engines, nec	363.80	383.23	373.33	372.37	-	8.50	8.69	9.31	9.24	-
352	Farm and garden machinery	312.07	341.20	313.40	338.19	-	7.63	7.88	7.57	8.11	-
3523	Farm machinery and equipment	321.85	355.28	321.86	351.10	-	7.85	8.13	7.70	8.32	-
353	Construction and related machinery	319.18	335.07	325.89	327.47	-	7.51	7.65	7.91	7.91	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	42.1	42.2	41.7	41.7	42.0	4.9	4.7	4.6	4.4	-
321	Flat glass	44.4	46.7	41.5	40.9	-	6.4	6.7	3.8	3.8	-
322	Glass and glassware, pressed or blown	40.4	40.9	40.0	40.4	-	4.1	4.1	4.0	3.9	-
3221	Glass containers	40.4	41.7	40.3	40.2	-	4.5	4.4	4.4	4.3	-
3229	Pressed and blown glass, nec	40.4	39.8	39.7	40.6	-	3.5	3.6	3.4	3.5	-
323	Products of purchased glass	42.8	42.5	40.5	41.0	-	5.2	5.1	2.7	3.1	-
324	Cement, hydraulic	43.9	42.4	42.3	42.6	-	4.1	4.0	4.0	4.1	-
325	Structural clay products	41.5	42.0	41.3	41.3	-	4.2	4.4	4.2	4.2	-
326	Pottery and related products	40.0	39.8	39.5	39.8	-	3.0	2.7	2.8	2.8	-
327	Concrete, gypsum, and plaster products	42.8	42.6	43.7	43.1	-	6.2	5.8	6.4	5.8	-
3271	Concrete block and brick	43.7	42.6	44.4	43.6	-	7.1	6.0	6.7	6.1	-
3272	Concrete products, nec	42.0	42.0	42.2	41.9	-	5.6	5.0	5.2	4.7	-
3273	Ready-mixed concrete	42.3	42.1	44.1	43.1	-	6.0	5.8	6.9	6.0	-
329	Misc. nonmetallic mineral products	43.1	43.3	41.7	42.0	-	4.6	4.5	4.3	4.3	-
3291	Abrasive products	41.4	41.4	40.4	40.6	-	3.9	3.8	3.6	3.6	-
3292	Asbestos products	44.6	45.3	41.7	41.6	-	4.7	4.7	3.5	3.2	-
33	<b>PRIMARY METAL INDUSTRIES</b>	42.2	42.5	40.9	40.7	40.9	4.3	4.4	3.6	3.5	-
331	Blast furnace and basic steel products	41.8	41.6	40.0	39.8	-	3.5	3.5	2.9	2.9	-
3312	Blast furnaces and steel mills	41.6	41.3	35.7	39.5	-	3.4	3.3	2.7	2.7	-
3317	Steel pipe and tubes	42.0	42.3	41.4	40.2	-	4.2	4.5	3.5	2.7	-
332	Iron and steel foundries	42.4	44.3	41.3	40.3	-	5.3	5.6	3.8	3.3	-
3321	Gray iron foundries	42.4	45.1	40.4	39.5	-	5.6	5.9	3.2	2.9	-
3322	Malleable iron foundries	41.2	42.6	40.4	40.0	-	5.1	6.0	3.7	3.9	-
3325	Steel foundries, nec	42.7	42.9	43.6	42.2	-	4.5	4.8	5.0	4.2	-
333	Primary nonferrous metals	42.3	42.0	42.0	41.7	-	3.7	3.5	3.9	3.9	-
3334	Primary aluminum	41.8	41.3	41.7	40.5	-	3.9	3.5	4.0	3.9	-
335	Nonferrous rolling and drawing	43.6	43.5	42.5	43.2	-	5.7	5.8	5.2	5.5	-
3351	Copper rolling and drawing	43.6	43.6	43.3	43.3	-	5.4	6.0	5.9	5.6	-
3353	Aluminum sheet, plate and foil	43.8	43.4	41.4	42.9	-	7.5	7.2	6.0	6.4	-
3357	Nonferrous wire drawing and insulating	43.3	43.6	42.1	42.8	-	5.3	5.3	4.5	5.0	-
336	Nonferrous foundries	41.5	42.3	40.5	40.2	-	3.8	4.4	3.2	3.0	-
3361	Aluminum foundries	41.6	42.4	40.6	40.7	-	4.2	4.9	3.3	3.3	-
34	<b>FABRICATED METAL PRODUCTS</b>	41.4	42.2	41.0	40.9	41.8	4.0	4.1	3.5	3.4	-
341	Metal cans and shipping containers	42.6	43.0	43.7	44.4	-	4.2	4.0	5.0	5.1	-
3411	Metal cans	42.7	42.9	43.8	44.5	-	4.0	3.5	5.0	5.0	-
342	Cutlery, hand tools, and hardware	40.8	41.5	40.2	39.8	-	3.4	3.9	2.9	2.7	-
3423, 5	Hand and edge tools, and hand saws and blades	40.5	41.3	41.0	40.7	-	3.2	3.8	3.3	3.0	-
3429	Hardware, nec	40.8	41.7	39.7	39.0	-	3.5	4.1	2.5	2.4	-
343	Plumbing and heating, except electric	40.0	40.1	40.7	40.2	-	3.0	2.9	3.3	3.0	-
3432	Plumbing fittings and brass goods	40.4	39.9	40.9	40.4	-	3.4	2.9	3.2	2.8	-
3433	Heating equipment, except electric	39.6	40.4	40.0	39.7	-	2.7	2.7	3.3	3.1	-
344	Fabricated structural metal products	40.5	41.1	40.8	41.0	-	3.3	3.3	3.4	3.4	-
3441	Fabricated structural metal	41.4	41.5	41.1	41.3	-	4.0	4.0	3.8	3.6	-
3442	Metal doors, sash, and trim	39.4	39.8	40.0	39.9	-	2.8	2.5	2.9	2.9	-
3443	Fabricated plate work (boiler shops)	40.7	41.7	41.9	42.8	-	3.2	3.6	3.5	3.8	-
3444	Sheet metal work	39.7	40.4	39.9	39.5	-	3.3	3.2	3.3	3.1	-
3446	Architectural metal work	40.7	41.6	40.3	40.8	-	2.4	2.7	2.9	3.2	-
345	Screw machine products, bolts, etc.	43.7	44.0	42.4	42.5	-	5.9	6.0	4.7	4.6	-
3451	Screw machine products	42.7	43.2	42.3	42.1	-	5.8	6.0	5.0	4.9	-
3452	Bolts, nuts, rivets, and washers	44.7	44.8	42.6	42.8	-	5.9	5.9	4.4	4.4	-
346	Metal forgings and stampings	42.5	44.3	40.6	39.9	-	5.2	4.9	3.6	3.1	-
3462	Iron and steel forgings	43.2	45.0	39.7	39.0	-	6.0	6.5	4.1	3.3	-
3465	Automotive stampings	43.4	46.8	39.9	38.8	-	6.3	5.3	3.1	1.8	-
3469	Metal stampings, nec	41.4	41.6	41.5	41.1	-	3.7	3.8	3.7	3.9	-
347	Metal services, nec	40.6	41.1	40.6	40.4	-	3.9	4.2	3.8	3.7	-
3471	Plating and polishing	40.4	40.9	40.1	39.9	-	3.7	3.9	3.3	3.2	-
3479	Metal coating and allied services	41.1	41.5	41.7	41.4	-	4.5	4.8	4.8	4.8	-
348	Ordnance and accessories, nec	40.1	41.0	41.1	41.4	-	2.8	3.1	3.0	2.9	-
3483	Ammunition, exc. for small arms, nec	38.3	39.8	39.7	40.3	-	1.4	1.9	2.0	2.1	-
349	Misc. fabricated metal products	41.4	42.1	40.9	41.3	-	3.6	4.1	3.3	3.3	-
3494	Valves and pipe fittings	42.5	43.1	41.3	42.4	-	4.1	4.7	3.7	4.1	-
3496	Misc. fabricated wire products	40.5	41.3	40.8	40.8	-	3.3	3.6	3.2	3.0	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	42.5	43.6	41.6	41.9	42.9	4.5	5.0	4.0	4.2	-
351	Engines and turbines	42.5	43.4	40.0	40.4	-	4.3	5.5	3.2	3.0	-
3511	Turbines and turbine generator sets	41.7	41.3	39.7	40.6	-	4.6	5.7	3.6	3.7	-
3519	Internal combustion engines, nec	42.8	44.1	40.1	40.3	-	4.2	5.5	3.1	2.7	-
352	Farm and garden machinery	40.9	43.3	41.4	41.7	-	4.3	4.7	3.6	4.4	-
3523	Farm machinery and equipment	41.0	43.7	41.8	42.2	-	4.4	4.9	3.6	4.6	-
353	Construction and related machinery	42.5	43.8	41.2	41.4	-	3.9	4.5	3.5	3.6	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery .....	\$346.53	\$364.22	\$342.68	\$345.72	-	\$8.33	\$8.49	\$8.61	\$8.60	-
3532	Mining machinery .....	314.63	329.43	345.66	339.58	-	7.30	7.47	8.02	7.99	-
3533	Oil field machinery .....	309.52	324.10	316.94	325.80	-	6.94	7.00	7.44	7.63	-
3535	Conveyers and conveying equipment .....	263.11	277.33	294.17	295.36	-	6.22	6.39	7.14	7.10	-
3537	Industrial trucks and tractors .....	281.52	298.32	297.27	295.25	-	6.80	6.97	7.34	7.29	-
354	Metalworking machinery .....	324.12	335.51	338.34	343.83	-	7.30	7.39	7.76	7.85	-
3541	Machine tools, metal cutting types .....	340.80	352.20	357.78	360.37	-	7.49	7.64	8.04	8.08	-
3542	Machine tools, metal forming types .....	334.40	344.06	342.08	348.43	-	7.60	7.68	8.03	8.16	-
3544	Special dies, tools, jigs, and fixtures .....	355.81	370.51	362.12	368.68	-	7.82	7.90	8.23	8.36	-
3545	Machine tool accessories .....	281.39	291.45	314.65	321.33	-	6.59	6.70	7.25	7.37	-
3546	Power driven hand tools .....	238.71	249.90	248.05	258.40	-	5.78	5.88	6.05	6.08	-
355	Special industry machinery .....	279.72	288.96	295.60	307.52	-	6.66	6.72	7.14	7.27	-
3551	Food products machinery .....	295.96	304.29	310.50	317.18	-	7.03	7.06	7.50	7.68	-
3552	Textile machinery .....	224.26	237.54	240.90	240.54	-	5.43	5.55	5.89	5.91	-
3555	Printing trades machinery .....	280.90	294.50	304.92	329.38	-	6.72	6.77	7.26	7.52	-
356	General industrial machinery .....	293.16	303.88	314.42	319.20	-	6.98	7.10	7.54	7.60	-
3561	Pumps and pumping equipment .....	288.43	301.89	309.48	312.77	-	6.95	7.07	7.53	7.61	-
3562	Ball and roller bearings .....	298.07	308.74	325.80	329.99	-	7.08	7.18	7.63	7.71	-
3563	Air and gas compressors .....	310.61	312.06	328.67	351.48	-	7.19	7.36	7.77	7.97	-
3564	Blowers and fans .....	258.13	270.30	280.16	287.04	-	6.25	6.36	6.80	6.90	-
3566	Speed changers, drives, and gears .....	328.24	343.99	367.04	358.13	-	7.46	7.73	8.38	8.29	-
3568	Power transmission equipment, nec .....	289.07	299.64	303.78	305.21	-	6.85	6.92	7.32	7.39	-
357	Office and computing machines .....	243.23	248.09	254.61	263.08	-	5.75	5.81	6.15	6.19	-
3573	Electronic computing equipment .....	242.95	249.55	255.65	263.11	-	5.73	5.79	6.19	6.22	-
358	Refrigeration and service machinery .....	259.20	273.84	273.88	271.83	-	6.40	6.52	6.83	6.83	-
3585	Refrigeration and heating equipment .....	265.52	283.41	279.90	278.10	-	6.54	6.70	6.98	6.97	-
359	Misc. machinery, except electrical .....	290.06	305.67	305.86	304.06	-	6.73	6.90	7.37	7.38	-
3592	Carburetors, pistons, rings, valves .....	337.70	372.67	348.94	335.96	-	7.71	7.98	8.49	8.42	-
3599	Machinery, except electrical, nec .....	281.22	292.15	297.44	298.39	-	6.54	6.67	7.15	7.19	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT .....	242.98	251.52	261.14	266.02	\$274.48	5.97	6.09	6.48	6.52	\$6.63
361	Electric distributing equipment .....	249.08	256.89	263.74	266.18	-	6.09	6.22	6.48	6.54	-
3612	Transformers .....	238.46	241.78	249.69	252.13	-	5.76	5.84	6.15	6.21	-
3613	Switchgear and switchboard apparatus .....	258.62	268.79	274.73	278.26	-	6.37	6.54	6.75	6.82	-
362	Electrical industrial apparatus .....	251.12	258.55	266.64	273.47	-	6.11	6.23	6.60	6.67	-
3621	Motors and generators .....	255.22	263.91	265.98	270.25	-	6.24	6.39	6.60	6.64	-
3622	Industrial controls .....	236.74	244.02	261.76	275.93	-	5.76	5.88	6.61	6.73	-
363	Household appliances .....	233.25	246.04	263.31	264.71	-	5.92	6.06	6.55	6.52	-
3632	Household refrigerators and freezers .....	243.05	267.86	296.21	294.17	-	6.43	6.47	7.26	7.21	-
3633	Household laundry equipment .....	269.35	299.71	313.34	312.26	-	6.96	7.31	7.68	7.71	-
3634	Electric housewares and fans .....	207.46	204.69	212.00	215.87	-	5.06	5.13	5.34	5.33	-
364	Electric lighting and wiring equipment .....	226.95	234.58	241.59	245.40	-	5.59	5.68	5.98	6.00	-
3641	Electric lamps .....	251.40	270.57	276.12	273.97	-	6.00	6.22	6.59	6.57	-
3643	Current-carrying wiring devices .....	209.90	212.74	230.20	239.93	-	5.17	5.24	5.67	5.74	-
3644	Noncurrent-carrying wiring devices .....	227.86	236.55	241.41	253.43	-	5.64	5.70	6.19	6.32	-
3645	Residential lighting fixtures .....	167.32	172.28	182.28	182.44	-	4.45	4.51	4.65	4.69	-
365	Radio and TV receiving equipment .....	213.25	216.50	232.02	238.12	-	5.44	5.58	5.98	6.09	-
3651	Radio and TV receiving sets .....	215.39	221.36	240.56	245.16	-	5.58	5.72	6.20	6.27	-
366	Communication equipment .....	284.28	293.41	311.95	318.59	-	6.85	6.92	7.59	7.64	-
3661	Telephone and telegraph apparatus .....	283.91	294.11	328.72	335.16	-	7.01	7.07	7.94	7.98	-
3662	Radio and TV communication equipment .....	285.10	292.15	299.39	306.27	-	6.74	6.81	7.32	7.38	-
367	Electronic components and accessories .....	204.82	210.33	218.90	225.74	-	5.02	5.13	5.50	5.56	-
3671-3	Electronic tubes .....	270.07	272.43	286.47	299.33	-	6.31	6.41	6.97	7.11	-
3674	Semiconductors and related devices .....	229.50	239.67	250.72	258.96	-	5.53	5.72	6.13	6.21	-
3679	Electronic components, nec .....	191.63	196.66	202.66	209.72	-	4.72	4.82	5.17	5.23	-
369	Misc. electrical equipment and supplies .....	292.63	311.41	301.99	298.74	-	7.12	7.31	7.42	7.34	-
3691	Storage batteries .....	306.71	316.09	311.66	305.72	-	7.32	7.42	7.62	7.53	-
3694	Engine electrical equipment .....	323.99	350.60	333.72	326.00	-	7.98	8.23	8.24	8.15	-
37	TRANSPORTATION EQUIPMENT .....	355.61	374.25	358.07	354.96	379.18	8.27	8.41	8.67	8.70	8.88
371	Motor vehicles and equipment .....	395.60	417.65	375.97	362.86	-	8.91	9.04	9.17	9.14	-
3711	Motor vehicles and car bodies .....	423.49	451.23	406.23	390.65	-	9.39	9.56	9.86	9.84	-
3713	Truck and bus bodies .....	285.82	291.04	293.92	296.03	-	7.04	7.03	7.46	7.61	-
3714	Motor vehicle parts and accessories .....	392.93	412.53	367.02	355.02	-	8.81	8.91	8.93	8.92	-
3715	Truck trailers .....	225.59	234.02	244.67	250.27	-	5.89	5.97	6.21	6.32	-
372	Aircraft and parts .....	335.91	346.62	360.40	369.37	-	7.83	7.95	8.46	8.59	-
3721	Aircraft .....	345.40	350.78	367.20	377.07	-	8.07	8.12	8.64	8.81	-
3724	Aircraft engines and engine parts .....	340.00	362.75	378.32	380.03	-	8.00	8.32	8.86	8.90	-
3728	Aircraft equipment, nec .....	309.72	319.96	325.71	341.88	-	7.12	7.19	7.61	7.77	-
373	Ship and boat building and repairing .....	264.60	279.57	300.58	308.10	-	6.75	6.92	7.44	7.57	-
3731	Shipbuilding and repairing .....	282.63	300.29	317.09	325.51	-	7.21	7.36	7.81	7.92	-
3732	Boat building and repairing .....	213.01	218.28	244.11	247.59	-	5.42	5.54	6.18	6.30	-
374	Railroad equipment .....	336.36	358.26	390.83	399.31	-	8.43	8.53	9.35	9.53	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p
	<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>										
3531	Construction machinery	41.6	42.9	35.8	40.2	-	2.9	3.4	2.3	2.2	-
3532	Mining machinery	43.1	44.1	43.1	42.5	-	3.6	4.8	3.6	3.2	-
3533	Oil field machinery	44.6	46.3	42.6	42.7	-	5.6	6.5	5.0	5.3	-
3535	Conveyers and conveying equipment	42.3	43.4	41.2	41.6	-	4.0	5.3	3.4	3.7	-
3537	Industrial trucks and tractors	41.4	42.8	40.5	40.5	-	3.8	4.3	3.2	3.2	-
354	Metalworking machinery	44.4	45.4	43.6	43.8	-	6.3	6.8	5.8	6.1	-
3541	Machine tools, metal cutting types	45.5	46.1	44.5	44.6	-	7.3	7.6	6.8	6.9	-
3542	Machine tools, metal forming types	44.0	44.8	42.6	42.7	-	6.7	8.8	6.3	6.2	-
3544	Special dies, tools, jigs, and fixtures	45.5	46.9	44.0	44.1	-	7.2	7.6	6.0	6.2	-
3545	Machine tool accessories	42.7	43.5	43.4	43.6	-	5.2	5.8	5.5	6.0	-
3546	Power driven hand tools	41.3	42.5	41.0	42.5	-	3.7	4.5	3.8	4.7	-
355	Special industry machinery	42.0	43.0	41.4	42.3	-	4.3	4.8	3.8	4.2	-
3551	Food products machinery	42.1	43.1	41.4	41.3	-	3.8	4.4	3.3	3.5	-
3552	Textile machinery	41.3	42.8	40.9	40.7	-	3.0	4.1	3.1	3.1	-
3555	Printing trades machinery	41.8	43.5	42.0	43.8	-	4.5	5.1	4.2	4.9	-
356	General industrial machinery	42.0	42.8	41.7	42.0	-	4.5	5.2	4.3	4.3	-
3561	Pumps and pumping equipment	41.5	42.7	41.1	41.1	-	4.1	4.6	3.6	3.7	-
3562	Ball and roller bearings	42.1	43.0	42.7	42.8	-	5.2	6.1	5.2	5.3	-
3563	Air and gas compressors	43.2	42.4	42.3	44.1	-	4.5	4.3	4.7	5.9	-
3564	Blowers and fans	41.3	42.5	41.2	41.6	-	3.6	4.3	4.2	4.0	-
3566	Speed changers, drives, and gears	44.0	44.5	43.8	43.2	-	5.4	7.1	5.9	4.8	-
3568	Power transmission equipment, nec	42.2	43.3	41.5	41.3	-	4.8	5.6	3.6	3.5	-
357	Office and computing machines	42.3	42.7	41.4	42.5	-	3.4	3.5	2.9	3.4	-
3573	Electronic computing equipment	42.4	43.1	41.3	42.3	-	3.3	3.6	3.0	3.4	-
358	Refrigeration and service machinery	40.5	42.0	40.1	39.8	-	3.1	3.7	2.5	2.3	-
3585	Refrigeration and heating equipment	40.6	42.3	40.1	39.9	-	3.3	3.9	2.7	2.4	-
359	Misc. machinery, except electrical	43.1	44.3	41.5	41.2	-	5.2	5.5	4.4	4.3	-
3592	Carburetors, pistons, rings, valves	43.8	46.7	41.1	39.9	-	4.7	4.6	3.2	3.3	-
3599	Machinery, except electrical, nec	43.0	43.8	41.6	41.5	-	5.3	5.7	4.6	4.5	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	40.7	41.3	40.3	40.8	41.4	3.1	3.3	2.8	3.0	-
361	Electric distributing equipment	40.9	41.3	40.7	40.7	-	3.1	3.6	2.9	3.1	-
3612	Transformers	41.4	41.4	40.6	40.6	-	3.3	3.9	3.1	3.2	-
3613	Switchgear and switchboard apparatus	40.6	41.1	40.7	40.8	-	3.0	3.4	2.8	3.0	-
362	Electrical industrial apparatus	41.1	41.5	40.4	41.0	-	3.2	3.6	2.9	3.3	-
3621	Motors and generators	40.9	41.3	40.3	40.7	-	3.3	3.6	3.0	3.4	-
3622	Industrial controls	41.1	41.5	39.6	41.0	-	2.8	3.2	2.1	2.7	-
363	Household appliances	39.4	40.6	40.2	40.6	-	2.3	2.6	2.7	3.0	-
3632	Household refrigerators and freezers	37.8	41.4	40.8	40.8	-	1.4	1.8	2.7	2.7	-
3633	Household laundry equipment	38.7	41.0	40.8	40.5	-	1.5	3.0	1.5	1.6	-
3634	Electric housewares and fans	41.0	39.9	39.7	40.5	-	3.1	2.6	2.9	3.5	-
364	Electric lighting and wiring equipment	40.6	41.3	40.4	40.9	-	3.1	3.2	2.9	3.1	-
3641	Electric lamps	41.9	43.5	41.9	41.7	-	3.3	3.5	3.0	2.7	-
3643	Current-carrying wiring devices	40.6	40.6	40.6	41.8	-	2.9	3.0	3.2	3.9	-
3644	Noncurrent-carrying wiring devices	40.4	41.5	39.0	40.1	-	3.1	3.1	2.4	2.4	-
3645	Residential lighting fixtures	37.6	38.2	39.2	38.9	-	1.8	2.1	2.3	2.5	-
365	Radio and TV receiving equipment	39.2	38.8	38.8	39.1	-	2.1	1.9	2.1	2.1	-
3651	Radio and TV receiving sets	38.6	38.7	38.8	39.1	-	1.6	1.8	1.9	1.9	-
366	Communication equipment	41.5	42.4	41.1	41.7	-	3.3	3.5	2.9	3.2	-
3661	Telephone and telegraph apparatus	40.5	41.6	41.4	42.0	-	3.3	3.7	3.4	3.8	-
3662	Radio and TV communication equipment	42.3	42.9	40.9	41.5	-	3.3	3.4	2.6	2.7	-
367	Electronic components and accessories	40.8	41.0	39.8	40.6	-	3.0	3.2	3.0	3.2	-
3671-3	Electronic tubes	42.8	42.5	41.1	42.1	-	2.6	2.7	2.1	2.6	-
3674	Semiconductors and related devices	41.5	41.9	40.9	41.7	-	3.8	4.0	3.9	4.3	-
3679	Electronic components, nec	40.6	40.8	39.2	40.1	-	3.0	3.2	2.8	3.0	-
369	Misc. electrical equipment and supplies	41.1	42.6	40.7	40.7	-	3.9	4.0	2.7	2.5	-
3691	Storage batteries	41.9	42.6	40.9	40.6	-	5.1	5.0	3.6	2.8	-
3694	Engine electrical equipment	40.6	42.6	40.5	40.0	-	3.9	3.7	2.2	1.8	-
37	<b>TRANSPORTATION EQUIPMENT</b>	43.0	44.5	41.3	40.8	42.7	5.7	5.7	3.8	3.4	-
371	Motor vehicles and equipment	44.4	46.2	41.0	39.7	-	7.1	6.6	3.5	2.5	-
3711	Motor vehicles and car bodies	45.1	47.2	41.2	39.7	-	7.8	7.1	3.8	2.6	-
3713	Truck and bus bodies	40.6	41.4	39.4	38.9	-	3.6	4.6	2.8	2.5	-
3714	Motor vehicle parts and accessories	44.6	46.3	41.1	39.8	-	7.1	6.7	3.3	2.4	-
3715	Truck trailers	38.3	39.2	39.4	39.6	-	3.1	3.2	2.2	2.1	-
372	Aircraft and parts	42.9	43.6	42.6	43.0	-	4.8	5.4	4.8	5.1	-
3721	Aircraft	42.8	43.2	42.5	42.8	-	4.0	4.4	4.3	4.4	-
3724	Aircraft engines and engine parts	42.5	43.6	42.7	42.7	-	5.3	6.4	5.3	5.9	-
3728	Aircraft equipment, nec	43.5	44.5	42.8	44.0	-	5.8	6.4	5.5	5.8	-
373	Ship and boat building and repairing	39.2	40.4	40.4	40.7	-	2.6	3.1	3.8	3.5	-
3731	Ship building and repairing	39.2	40.8	40.6	41.1	-	2.7	3.2	4.1	3.8	-
3732	Boat building and repairing	39.3	39.4	39.5	39.3	-	2.4	2.8	2.7	2.6	-
374	Railroad equipment	39.9	42.0	41.8	41.9	-	3.6	5.0	4.3	4.3	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
	<b>TRANSPORTATION EQUIPMENT—Continued</b>										
376	Guided missiles, space vehicles, parts	\$345.93	\$353.58	\$351.44	\$363.78	-	\$7.88	\$7.91	\$8.53	\$8.60	-
3761	Guided missiles and space vehicles	345.56	356.53	354.65	370.58	-	8.15	8.14	8.65	8.74	-
379	Miscellaneous transportation equipment	221.60	230.92	251.94	259.50	-	5.61	5.73	6.51	6.62	-
3792	Travel trailers and campers	193.17	193.16	219.58	224.91	-	5.07	5.11	5.84	5.95	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	241.19	248.12	257.86	263.91	\$269.61	5.84	5.95	6.32	6.39	\$6.45
381	Engineering and scientific instruments	262.88	275.25	279.64	284.08	-	6.20	6.27	6.69	6.70	-
382	Measuring and controlling devices	248.12	252.00	257.70	266.85	-	5.95	6.00	6.27	6.43	-
3822	Environmental controls	228.98	234.68	237.96	240.99	-	5.64	5.71	5.89	5.98	-
3823	Process control instruments	260.15	266.30	268.18	281.66	-	6.05	6.15	6.34	6.52	-
3825	Instruments to measure electricity	259.98	262.48	273.41	284.54	-	6.19	6.22	6.62	6.84	-
383	Optical instruments and lenses	282.06	291.84	296.67	289.33	-	6.31	6.40	6.82	6.76	-
384	Medical instruments and supplies	201.60	207.87	206.80	220.05	-	5.04	5.12	5.33	5.42	-
3841	Surgical and medical instruments	192.56	200.31	192.56	210.50	-	4.79	4.85	4.95	5.06	-
3842	Surgical appliances and supplies	209.48	215.47	218.62	227.83	-	5.25	5.36	5.62	5.71	-
385	Ophthalmic goods	184.71	184.24	194.22	201.68	-	4.70	4.70	4.98	5.08	-
386	Photographic equipment and supplies	310.25	326.32	361.12	357.83	-	7.30	7.66	8.34	8.38	-
387	Watches, clocks, and watchcases	178.75	183.81	185.28	191.07	-	4.48	4.63	4.80	4.95	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	188.73	191.48	201.22	203.54	208.03	4.79	4.86	5.12	5.14	5.24
391	Jewelry, silverware, and plated ware	197.69	195.42	206.85	212.00	-	4.93	4.96	5.25	5.30	-
3911	Jewelry, precious metal	192.94	192.17	199.02	207.60	-	4.86	4.94	5.09	5.19	-
393	Musical instruments	188.47	189.34	212.38	212.98	-	4.70	4.71	5.18	5.22	-
394	Toys and sporting goods	169.40	172.93	180.57	181.89	-	4.40	4.48	4.63	4.64	-
3942, 4	Dolls, games, toys, and children's vehicles	161.66	161.41	173.55	172.43	-	4.21	4.27	4.45	4.41	-
3949	Sporting and athletic goods, nec	177.49	182.35	188.85	191.88	-	4.61	4.64	4.83	4.87	-
395	Pens, pencils, office and art supplies	204.85	209.48	218.89	219.76	-	4.96	5.06	5.30	5.27	-
396	Costume jewelry and notions	155.45	154.50	163.75	166.76	-	4.08	4.12	4.39	4.40	-
3961	Costume jewelry	140.59	138.52	150.79	152.81	-	3.81	3.88	4.12	4.13	-
399	Miscellaneous manufactures	216.40	218.69	226.73	229.82	-	5.41	5.44	5.74	5.76	-
3993	Signs and advertising displays	226.40	229.64	233.82	238.37	-	5.66	5.67	5.98	6.05	-
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS</b>	238.80	242.61	254.40	260.65	264.22	5.97	6.02	6.36	6.50	6.54
201	Meat products	245.60	246.83	261.23	267.19	-	6.14	6.14	6.45	6.63	-
2011	Meat packing plants	311.22	309.01	336.41	347.70	-	7.34	7.34	7.86	8.03	-
2013	Sausages and other prepared meats	274.11	285.42	305.07	310.49	-	6.87	7.03	7.57	7.61	-
2016	Poultry dressing plants	146.49	147.75	160.82	156.22	-	3.97	3.94	4.21	4.28	-
202	Dairy products	249.04	250.66	263.81	270.34	-	6.03	6.04	6.45	6.53	-
2022	Cheese, natural and processed	226.86	223.97	240.30	242.81	-	5.70	5.67	6.13	6.21	-
2026	Fluid milk	262.03	263.69	278.28	285.90	-	6.18	6.19	6.61	6.68	-
203	Preserved fruits and vegetables	194.04	198.92	213.15	210.68	-	5.04	5.14	5.41	5.43	-
2032	Canned specialties	255.09	255.73	269.14	266.48	-	5.96	6.06	6.23	6.27	-
2033	Canned fruits and vegetables	187.21	195.70	204.36	199.64	-	4.85	5.07	5.24	5.24	-
2037	Frozen fruits and vegetables	179.45	181.28	207.19	195.15	-	4.85	4.86	5.34	5.26	-
204	Grain mill products	287.32	299.25	309.83	321.78	-	6.53	6.65	7.09	7.28	-
2041	Flour and other grain mill products	341.29	332.75	352.50	355.42	-	7.17	7.11	7.50	7.53	-
2048	Prepared feeds, nec	226.80	237.89	254.46	261.36	-	5.19	5.31	5.77	5.94	-
205	Bakery products	242.97	242.35	263.06	268.81	-	6.23	6.23	6.78	6.84	-
2051	Bread, cake, and related products	241.64	240.86	263.73	270.87	-	6.26	6.24	6.85	6.91	-
2052	Cookies and crackers	247.85	247.38	259.91	262.94	-	6.15	6.20	6.58	6.64	-
206	Sugar and confectionery products	227.03	227.03	241.70	249.20	-	5.69	5.69	6.15	6.23	-
2061-3	Cane and beet sugar	272.41	272.24	293.44	308.92	-	6.58	6.56	7.41	7.48	-
2065	Confectionery products	193.83	193.72	208.44	213.10	-	4.97	4.98	5.40	5.45	-
207	Fats and oils	277.50	278.13	287.32	293.93	-	6.25	6.25	6.59	6.65	-
208	Beverages	289.35	294.98	306.40	311.22	-	7.18	7.23	7.66	7.80	-
2082	Malt beverages	408.92	417.31	433.42	440.02	-	9.69	9.66	10.52	10.68	-
2086	Bottled and canned soft drinks	205.67	211.07	217.84	218.27	-	5.26	5.33	5.60	5.64	-
209	Misc. foods and kindred products	198.88	205.64	211.69	213.93	-	5.22	5.30	5.63	5.72	-
21	<b>TOBACCO MANUFACTURES</b>	232.97	239.78	249.48	272.69	276.59	6.02	6.18	6.43	7.01	7.02
211	Cigarettes	288.79	297.14	308.27	328.84	-	7.56	7.58	8.07	8.18	-
22	<b>TEXTILE MILL PRODUCTS</b>	180.67	182.78	197.06	200.23	203.91	4.45	4.48	4.83	4.86	4.89
221	Weaving mills, cotton	194.84	198.05	211.68	218.44	-	4.65	4.66	5.04	5.08	-
222	Weaving mills, synthetics	198.34	198.13	213.09	215.97	-	4.70	4.74	5.11	5.13	-
223	Weaving and finishing mills, wool	187.01	189.77	197.11	200.79	-	4.55	4.54	4.94	4.97	-
224	Narrow fabric mills	167.27	167.67	176.36	180.85	-	4.13	4.14	4.42	4.51	-
225	Knitting mills	156.62	157.80	173.05	175.56	-	4.10	4.12	4.46	4.49	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p
	<b>TRANSPORTATION EQUIPMENT—Continued</b>										
376	Guided missiles, space vehicles, parts	43.9	44.7	41.2	42.3	-	5.5	5.7	4.3	4.3	-
3761	Guided missiles and space vehicles	42.4	43.8	41.0	42.4	-	4.4	5.1	3.5	3.7	-
379	Miscellaneous transportation equipment	39.5	40.3	38.7	39.2	-	2.2	1.9	1.6	1.6	-
3792	Travel trailers and campers	38.1	37.8	37.6	37.8	-	1.9	1.3	1.5	1.4	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	41.3	41.7	40.8	41.3	41.8	2.8	3.1	2.6	2.9	-
381	Engineering and scientific instruments	42.4	43.9	41.8	42.4	-	3.6	4.0	3.8	3.9	-
382	Measuring and controlling devices	41.7	42.0	41.1	41.5	-	2.6	3.0	2.6	3.0	-
3822	Environmental controls	40.6	41.1	40.4	40.3	-	2.0	2.7	1.6	1.9	-
3823	Process control instruments	43.0	43.3	42.3	43.2	-	3.7	4.4	3.3	3.5	-
3825	Instruments to measure electricity	42.0	42.2	41.3	41.6	-	2.1	2.3	2.1	3.0	-
383	Optical instruments and lenses	44.7	45.6	43.5	42.8	-	4.0	4.5	4.0	3.5	-
384	Medical instruments and supplies	40.0	40.6	38.8	40.6	-	2.7	2.9	2.1	2.7	-
3841	Surgical and medical instruments	40.2	41.3	38.9	41.6	-	3.3	3.7	2.3	3.2	-
3842	Surgical appliances and supplies	39.9	40.2	38.9	39.9	-	2.2	2.5	2.1	2.6	-
385	Ophthalmic goods	39.3	39.2	39.0	39.7	-	1.9	1.9	1.7	2.1	-
386	Photographic equipment and supplies	42.5	42.6	43.3	42.7	-	3.5	3.6	3.3	3.2	-
387	Watches, clocks, and watchcases	39.9	39.7	38.6	38.6	-	2.1	2.0	1.3	1.2	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	39.4	39.4	39.3	39.6	39.7	2.6	2.5	2.7	2.8	-
391	Jewelry, silverware, and plated ware	40.1	39.4	39.4	40.0	-	3.8	3.1	2.7	3.4	-
3911	Jewelry, precious metal	39.7	38.9	39.1	40.0	-	4.0	3.2	2.7	3.8	-
393	Musical instruments	40.1	40.2	41.0	40.8	-	2.1	1.9	2.4	2.2	-
394	Toys and sporting goods	38.5	38.6	39.0	39.2	-	1.9	2.0	2.6	2.6	-
3942, 4	Dolls, games, toys, and children's vehicles	38.4	37.8	39.0	39.1	-	2.0	1.6	2.8	2.5	-
3949	Sporting and athletic goods, nec	38.5	39.3	39.1	39.4	-	1.7	2.3	2.4	2.7	-
395	Pens, pencils, office and art supplies	41.3	41.4	41.3	41.7	-	3.1	3.0	3.0	2.9	-
396	Costume jewelry and notions	38.1	37.5	37.3	37.9	-	2.7	2.3	2.2	2.4	-
3961	Costume jewelry	36.9	35.7	36.6	37.0	-	2.4	2.0	1.8	2.0	-
399	Miscellaneous manufactures	40.0	40.2	39.5	39.9	-	2.6	2.6	3.1	3.0	-
3993	Signs and advertising displays	40.0	40.5	39.1	39.4	-	2.7	2.8	2.7	2.8	-
	<b>NONDURABLE GOODS</b>										
20	<b>FOOD AND KINDRED PRODUCTS</b>	40.0	40.3	40.0	40.1	40.4	4.0	4.0	4.2	4.3	-
201	Meat products	40.0	40.2	40.5	40.3	-	4.0	4.1	4.5	4.8	-
2011	Meat packing plants	42.4	42.1	42.8	43.3	-	4.8	4.9	5.5	6.4	-
2013	Sausages and other prepared meats	39.9	40.6	40.3	40.8	-	3.4	4.3	4.3	4.0	-
2016	Poultry dressing plants	36.9	37.5	38.2	36.5	-	3.2	3.1	3.7	3.3	-
202	Dairy products	41.3	41.5	40.9	41.4	-	3.9	3.9	3.8	3.9	-
2022	Cheese, natural and processed	39.8	39.5	39.2	39.1	-	3.3	3.2	3.2	3.2	-
2026	Fluid milk	42.4	42.6	42.1	42.8	-	4.3	4.3	4.2	4.2	-
203	Preserved fruits and vegetables	38.5	38.7	39.4	38.8	-	3.3	3.1	3.4	3.6	-
2032	Canned specialties	42.8	42.2	43.2	42.5	-	7.2	6.4	7.4	6.5	-
2033	Canned fruits and vegetables	38.6	38.6	39.0	38.1	-	3.5	3.1	4.4	3.4	-
2037	Frozen fruits and vegetables	37.0	37.3	38.8	37.1	-	2.5	2.7	4.7	3.2	-
204	Grain mill products	44.0	45.0	43.7	44.2	-	6.3	6.8	6.5	6.7	-
2041	Flour and other grain mill products	47.6	46.8	47.0	47.2	-	8.1	7.8	8.3	8.5	-
2048	Prepared feeds, nec	43.7	44.8	44.1	44.0	-	6.0	6.8	6.7	6.5	-
205	Bakery products	39.0	38.9	38.8	39.3	-	3.5	3.3	3.1	3.7	-
2051	Bread, cake, and related products	38.6	38.6	38.5	39.2	-	3.9	3.6	3.3	4.3	-
2052	Cookies and crackers	40.3	39.9	39.5	39.6	-	2.4	2.3	2.3	1.8	-
206	Sugar and confectionery products	39.9	39.9	39.3	40.0	-	3.4	3.6	3.6	3.8	-
2061-3	Cane and beet sugar	41.4	41.5	39.6	41.3	-	4.7	5.0	5.4	5.9	-
2065	Confectionery products	39.0	38.9	38.6	39.1	-	2.9	3.1	2.8	3.0	-
207	Fats and oils	44.4	44.5	43.6	44.2	-	6.1	6.1	6.4	6.5	-
208	Beverages	40.3	40.8	40.0	39.9	-	3.8	3.9	3.8	3.8	-
2082	Malt beverages	42.2	43.2	41.2	41.2	-	5.5	5.7	5.0	5.4	-
2086	Bottled and canned soft drinks	39.1	39.6	38.9	38.7	-	2.8	3.2	3.3	3.1	-
209	Misc. foods and kindred products	38.1	38.8	37.6	37.4	-	3.6	3.4	3.3	3.1	-
21	<b>TOBACCO MANUFACTURES</b>	38.7	38.8	38.8	38.9	39.4	2.1	2.0	1.6	1.8	-
211	Cigarettes	38.2	39.2	38.2	40.2	-	2.2	2.3	1.6	2.1	-
22	<b>TEXTILE MILL PRODUCTS</b>	40.6	40.8	40.8	41.2	41.7	3.8	3.8	3.8	3.9	-
221	Weaving mills, cotton	41.9	42.5	42.0	43.0	-	4.7	4.7	4.6	5.2	-
222	Weaving mills, synthetics	42.2	41.8	41.7	42.1	-	4.5	4.4	4.3	4.3	-
223	Weaving and finishing mills, wool	41.1	41.8	39.9	40.4	-	3.6	4.0	3.3	3.7	-
224	Narrow fabric mills	40.5	40.5	39.9	40.1	-	3.0	2.8	3.0	3.4	-
225	Knitting mills	38.2	38.3	38.8	39.1	-	2.7	2.5	2.8	2.9	-

See footnotes at end of table.



# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$154.42	\$156.82	\$165.98	\$172.30	-	\$3.88	\$3.96	\$4.30	\$4.34	-
2252	Hosiery, nec	140.82	141.66	159.60	160.70	-	3.89	3.86	4.20	4.24	-
2253	Knit outerwear mills	147.86	147.42	168.52	171.16	-	4.04	4.05	4.40	4.40	-
2254	Knit underwear mills	144.02	145.92	150.95	151.20	-	3.79	3.84	4.17	4.20	-
2257	Circular knit fabric mills	183.06	186.18	199.92	203.53	-	4.52	4.53	4.90	4.94	-
226	Textile finishing, except wool	196.05	201.12	215.79	219.11	-	4.77	4.80	5.15	5.18	-
2261	Finishing plants, cotton	200.86	209.23	221.23	229.29	-	4.84	4.90	5.28	5.32	-
2262	Finishing plants, synthetics	203.77	210.58	226.42	226.53	-	4.97	4.99	5.34	5.33	-
227	Floor covering mills	193.28	197.66	206.29	208.32	-	4.58	4.64	4.90	4.96	-
228	Yarn and thread mills	168.87	169.29	187.42	190.07	-	4.18	4.18	4.56	4.58	-
2281	Yarn mills, except wool	169.30	170.96	191.03	193.66	-	4.17	4.18	4.57	4.60	-
2282	Throwing and winding mills	163.21	162.41	174.68	174.49	-	4.06	4.04	4.40	4.44	-
229	Miscellaneous textile goods	200.64	205.92	218.06	216.89	-	4.87	4.95	5.28	5.29	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	145.04	146.06	153.36	153.79	\$157.68	4.04	4.08	4.32	4.32	\$4.38
231	Men's and boys' suits and coats	180.18	184.02	182.51	187.80	-	4.95	4.96	5.29	5.29	-
232	Men's and boys' furnishings	131.77	132.12	144.94	147.97	-	3.65	3.67	3.96	4.01	-
2321	Men's and boys' shirts and nightwear	131.38	129.95	141.26	144.65	-	3.57	3.57	3.87	3.92	-
2327	Men's and boys' separate trousers	132.38	134.55	145.08	144.79	-	3.75	3.79	4.11	4.09	-
2328	Men's and boys' work clothing	131.02	132.84	146.30	150.54	-	3.57	3.60	3.81	3.89	-
233	Women's and misses' outerwear	135.94	134.40	143.52	141.70	-	4.01	4.00	4.31	4.32	-
2331	Women's and misses' blouses and waists	130.15	130.13	138.04	137.30	-	3.74	3.75	4.06	4.05	-
2335	Women's and misses' dresses	135.05	131.24	139.84	135.08	-	4.13	4.14	4.37	4.40	-
2337	Women's and misses' suits and coats	140.61	141.62	153.64	157.41	-	4.30	4.24	4.67	4.77	-
2339	Women's and misses' outerwear, nec	137.42	137.00	144.70	145.53	-	3.86	3.87	4.17	4.17	-
234	Women's and children's undergarments	132.13	128.85	141.87	145.78	-	3.64	3.65	3.93	3.94	-
2341	Women's and children's underwear	128.52	126.02	140.50	144.74	-	3.57	3.58	3.86	3.87	-
2342	Brassieres and allied garments	146.23	140.30	147.20	150.52	-	3.91	3.93	4.23	4.24	-
236	Children's outerwear	131.41	130.68	138.87	143.81	-	3.62	3.64	3.89	3.94	-
2361	Children's dresses and blouses	130.30	129.24	137.14	138.57	-	3.56	3.58	3.82	3.86	-
238	Misc. apparel and accessories	143.58	143.89	154.56	158.36	-	3.87	3.91	4.20	4.28	-
239	Misc. fabricated textile products	186.05	192.94	188.93	183.36	-	4.71	4.86	4.92	4.80	-
2391	Curtains and draperies	134.82	135.55	145.92	147.84	-	3.52	3.53	3.82	3.86	-
2392	House furnishing, nec	161.20	158.77	167.45	171.17	-	4.03	4.04	4.25	4.29	-
2396	Automotive and apparel trimmings	314.99	349.08	305.74	280.05	-	7.59	7.88	7.76	7.61	-
26	PAPER AND ALLIED PRODUCTS	291.60	294.69	312.68	317.89	324.08	6.75	6.79	7.34	7.41	7.45
261, 2, 6	Paper and pulp mills	351.85	354.63	387.94	391.43	-	7.75	7.76	8.64	8.66	-
262	Paper mills, except building paper	354.18	358.20	388.72	393.93	-	7.75	7.77	8.60	8.62	-
263	Paperboard mills	364.14	352.72	383.66	394.69	-	8.11	8.09	8.68	8.81	-
264	Misc. converted paper products	249.00	254.75	264.68	269.04	-	6.00	6.08	6.44	6.53	-
2641	Paper coating and glazing	299.15	303.79	311.18	309.10	-	6.83	6.92	7.22	7.29	-
2642	Envelopes	231.69	236.68	238.60	246.02	-	5.61	5.64	5.95	6.03	-
2643	Bags, except textile bags	239.13	242.68	254.20	260.62	-	5.68	5.71	6.14	6.22	-
265	Paperboard containers and boxes	258.83	263.41	270.40	275.94	-	6.09	6.14	6.50	6.57	-
2651	Folding paperboard boxes	270.24	279.59	278.88	280.73	-	6.27	6.34	6.64	6.70	-
2653	Corrugated and solid fiber boxes	274.34	276.92	286.02	289.33	-	6.38	6.44	6.81	6.84	-
2654	Sanitary food containers	234.17	237.42	257.30	266.91	-	5.67	5.68	6.20	6.31	-
27	PRINTING AND PUBLISHING	253.75	256.61	264.75	269.09	273.51	6.66	6.70	7.06	7.10	7.16
271	Newspapers	247.81	246.38	252.93	260.09	-	7.06	7.08	7.31	7.41	-
272	Periodicals	233.36	238.23	242.43	253.05	-	6.03	6.14	6.57	6.73	-
273	Books	230.88	235.39	244.48	245.07	-	5.92	5.87	6.40	6.30	-
2731	Book publishing	223.44	221.69	233.75	235.90	-	5.70	5.57	6.25	6.08	-
2732	Book printing	238.23	248.65	256.11	255.06	-	6.14	6.17	6.55	6.54	-
274	Miscellaneous publishing	213.22	221.77	219.35	225.82	-	5.89	6.01	6.11	5.99	-
275	Commercial printing	269.01	271.26	283.36	284.90	-	6.88	6.92	7.36	7.40	-
2751	Commercial printing, letterpress	248.58	251.16	260.44	264.03	-	6.44	6.49	6.89	6.93	-
2752	Commercial printing, lithographic	278.95	282.82	295.62	292.97	-	7.08	7.16	7.58	7.59	-
276	Manifold business forms	263.55	276.92	281.40	288.39	-	6.29	6.44	6.83	6.85	-
278	Blankbooks and bookbinding	200.38	206.00	209.37	212.31	-	5.06	5.15	5.41	5.43	-
279	Printing trade services	332.35	336.11	344.89	352.94	-	8.61	8.73	9.10	9.12	-
28	CHEMICALS AND ALLIED PRODUCTS	305.41	307.94	326.09	330.91	335.81	7.22	7.28	7.82	7.86	7.92
281	Industrial inorganic chemicals	340.63	336.66	360.40	366.36	-	7.94	7.94	8.52	8.60	-
2819	Industrial inorganic chemicals, nec	333.48	335.58	360.39	364.59	-	7.94	7.99	8.54	8.66	-
282	Plastics materials and synthetics	302.87	302.74	319.49	322.63	-	7.06	7.09	7.68	7.70	-
2821	Plastics materials and resins	343.54	343.20	359.54	362.08	-	7.79	7.80	8.44	8.44	-
2824	Organic fibers, noncellulosic	274.03	277.20	297.88	301.71	-	6.54	6.60	7.23	7.27	-
283	Drugs	271.00	278.94	295.92	299.63	-	6.53	6.61	7.20	7.22	-
2834	Pharmaceutical preparations	261.76	270.22	281.88	284.90	-	6.40	6.48	6.96	7.00	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks .....	35.8	39.6	38.6	39.7	-	3.1	3.4	3.4	4.0	-
2252	Hosiery, nec .....	36.2	36.7	38.0	37.9	-	2.1	1.7	2.2	2.0	-
2253	Knit outerwear mills .....	36.6	36.4	38.3	38.9	-	1.9	1.7	2.5	2.5	-
2254	Knit underwear mills .....	38.0	38.0	36.2	36.0	-	2.1	2.0	1.3	1.2	-
2257	Circular knit fabric mills .....	40.5	41.1	40.8	41.2	-	4.2	4.1	4.0	4.5	-
226	Textile finishing, except wool .....	41.1	41.9	41.9	42.3	-	4.1	4.8	4.1	4.3	-
2261	Finishing plants, cotton .....	41.5	42.7	41.9	43.1	-	4.1	5.4	4.0	4.7	-
2262	Finishing plants, synthetics .....	41.0	42.2	42.4	42.5	-	4.8	5.2	4.7	4.6	-
227	Floor covering mills .....	42.2	42.6	42.1	42.0	-	4.6	5.2	4.4	4.2	-
228	Yarn and thread mills .....	40.4	40.5	41.1	41.5	-	3.5	3.4	4.0	4.0	-
2281	Yarn mills, except wool .....	40.6	40.9	41.8	42.1	-	3.7	3.7	4.4	4.4	-
2282	Throwing and winding mills .....	40.2	40.2	39.7	39.3	-	3.5	3.2	3.4	2.9	-
229	Miscellaneous textile goods .....	41.2	41.6	41.3	41.0	-	3.7	3.9	3.9	3.4	-
APPAREL AND OTHER TEXTILE PRODUCTS											
23		35.9	35.8	35.5	35.6	36.0	1.4	1.1	1.2	1.2	-
231	Men's and boys' suits and coats .....	36.4	37.1	34.5	35.5	-	.9	.9	.5	.6	-
232	Men's and boys' furnishings .....	36.1	36.0	36.6	36.9	-	1.0	.9	1.2	1.3	-
2321	Men's and boys' shirts and nightwear .....	36.8	36.4	36.5	36.9	-	1.1	1.0	1.1	1.3	-
2327	Men's and boys' separate trousers .....	35.3	35.5	35.3	35.4	-	.7	.7	1.2	1.0	-
2328	Men's and boys' work clothing .....	36.7	36.9	38.4	38.7	-	1.1	1.1	1.3	1.5	-
233	Women's and misses' outerwear .....	33.9	33.6	33.3	32.8	-	1.2	1.0	.9	1.0	-
2331	Women's and misses' blouses and waists .....	34.8	34.7	34.0	33.9	-	1.1	.9	.6	.7	-
2335	Women's and misses' dresses .....	32.7	31.7	32.0	30.7	-	1.2	.9	.9	1.0	-
2337	Women's and misses' suits and coats .....	32.7	33.4	32.9	33.0	-	.7	.6	.8	.8	-
2339	Women's and misses' outerwear, nec .....	35.6	35.4	34.7	34.9	-	1.5	1.3	1.0	1.1	-
234	Women's and children's undergarments .....	36.3	35.3	36.1	37.0	-	1.2	.8	1.5	1.5	-
2341	Women's and children's underwear .....	36.0	35.2	36.4	37.4	-	1.2	.9	1.6	1.5	-
2342	Brassieres and allied garments .....	37.4	35.7	34.8	35.5	-	1.0	.6	1.2	1.3	-
236	Children's outerwear .....	36.3	35.9	35.7	36.5	-	1.4	1.1	1.2	1.2	-
2361	Children's dresses and blouses .....	36.6	36.1	35.9	35.9	-	1.8	1.2	1.1	1.1	-
238	Misc. apparel and accessories .....	37.1	36.8	36.8	37.0	-	1.8	1.4	1.6	1.7	-
239	Misc. fabricated textile products .....	39.5	39.7	38.4	38.2	-	2.8	2.2	1.7	1.6	-
2391	Curtains and draperies .....	38.3	38.4	38.2	38.3	-	2.2	1.7	1.1	1.3	-
2392	House furnishings, nec .....	40.0	39.3	39.4	39.9	-	2.7	2.2	2.7	2.8	-
2396	Automotive and apparel trimmings .....	41.5	44.3	39.4	36.8	-	4.6	3.7	1.8	.6	-
PAPER AND ALLIED PRODUCTS											
26		43.2	43.4	42.6	42.9	43.5	5.3	5.2	5.0	5.0	-
261, 2, 6	Paper and pulp mills .....	45.4	45.7	44.9	45.2	-	6.9	7.0	6.9	7.1	-
262	Paper mills, except building paper .....	45.7	46.1	45.2	45.7	-	7.1	7.2	7.0	7.2	-
263	Paperboard mills .....	44.9	43.6	44.2	44.8	-	7.5	7.1	7.3	7.7	-
264	Misc. converted paper products .....	41.5	41.9	41.1	41.2	-	4.1	3.9	3.5	3.5	-
2641	Paper coating and glazing .....	43.8	43.9	43.1	42.4	-	5.7	5.4	4.4	4.5	-
2642	Envelopes .....	41.3	42.0	40.1	40.8	-	3.6	3.8	3.1	3.1	-
2643	Bags, except textile bags .....	42.1	42.5	41.4	41.9	-	4.1	4.1	3.5	3.6	-
265	Paperboard containers and boxes .....	42.5	42.9	41.6	42.0	-	4.4	4.3	4.0	3.9	-
2651	Folding paperboard boxes .....	43.1	44.1	42.0	41.9	-	4.6	4.8	3.8	3.5	-
2653	Corrugated and solid fiber boxes .....	43.0	43.0	42.0	42.3	-	4.8	4.7	4.6	4.3	-
2654	Sanitary food containers .....	41.3	41.8	41.5	42.3	-	3.3	3.2	3.4	3.4	-
PRINTING AND PUBLISHING											
27		38.1	38.3	37.5	37.9	38.2	3.2	3.3	3.0	3.0	-
271	Newspapers .....	35.1	34.8	34.6	35.1	-	2.6	2.5	2.2	2.6	-
272	Periodicals .....	38.7	38.8	36.9	37.6	-	3.1	3.1	2.1	2.1	-
273	Books .....	39.0	40.1	38.2	38.9	-	3.6	3.8	2.8	3.0	-
2731	Book publishing .....	39.2	39.8	37.4	38.8	-	2.1	2.4	1.7	2.1	-
2732	Book printing .....	38.8	40.3	39.1	39.0	-	5.1	5.3	4.0	4.1	-
274	Miscellaneous publishing .....	36.2	36.9	35.9	37.7	-	2.4	2.4	1.8	2.3	-
275	Commercial printing .....	39.1	39.2	38.5	38.5	-	3.7	3.7	3.5	3.3	-
2751	Commercial printing, letterpress .....	38.6	38.7	37.8	38.1	-	2.9	3.1	2.8	2.8	-
2752	Commercial printing, lithographic .....	39.4	39.5	39.0	38.6	-	4.0	4.1	3.8	3.4	-
276	Manifold business forms .....	41.9	43.0	41.2	42.1	-	4.0	5.0	3.6	4.0	-
278	Blankbooks and bookbinding .....	39.6	40.0	38.7	39.1	-	2.5	2.5	2.5	2.2	-
279	Printing trade service .....	38.6	38.5	37.9	38.7	-	3.5	3.5	3.7	3.7	-
CHEMICALS AND ALLIED PRODUCTS											
28		42.3	42.3	41.7	42.1	42.4	3.6	3.5	3.6	3.6	-
281	Industrial inorganic chemicals .....	42.9	42.4	42.3	42.6	-	4.1	3.6	3.9	4.0	-
2819	Industrial inorganic chemicals, nec .....	42.0	42.0	42.2	42.1	-	3.2	3.2	3.7	3.7	-
282	Plastics materials and synthetics .....	42.9	42.7	41.6	41.9	-	3.5	3.3	3.4	3.4	-
2821	Plastics materials and resins .....	44.1	44.0	42.6	42.9	-	5.0	4.6	4.4	4.4	-
2824	Organic fibers, noncellulosic .....	41.9	42.0	41.2	41.5	-	2.2	2.2	2.5	2.5	-
283	Drugs .....	41.5	42.2	41.1	41.5	-	3.0	3.2	2.9	2.8	-
2834	Pharmaceutical preparations .....	40.9	41.7	40.5	40.7	-	2.9	3.2	2.8	2.7	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	\$276.89	\$288.52	\$293.63	\$303.64	-	\$6.82	\$7.02	\$7.25	\$7.37	-
2841	Soap and other detergents .....	378.01	391.50	403.09	420.01	-	8.73	9.00	9.44	9.70	-
2844	Toilet preparations .....	219.22	228.67	231.67	237.18	-	5.65	5.76	5.88	5.90	-
2842, 3	Polishing, sanitation, and finishing preparations .....	247.04	255.73	263.34	270.55	-	6.13	6.33	6.65	6.73	-
286	Paints and allied products .....	268.69	271.88	276.86	277.67	-	6.49	6.52	6.87	6.89	-
286	Industrial organic chemicals .....	366.75	368.08	397.38	401.99	-	8.47	8.56	9.22	9.22	-
2865	Cyclic crudes and intermediates .....	329.30	349.92	364.19	374.52	-	7.73	8.10	8.63	8.59	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	381.06	374.95	409.70	412.02	-	8.74	8.74	9.44	9.45	-
287	Agricultural chemicals .....	299.75	301.31	325.18	331.25	-	7.02	7.04	7.58	7.65	-
289	Miscellaneous chemical products .....	284.01	288.74	303.78	307.23	-	6.73	6.81	7.32	7.35	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	390.71	388.49	418.51	428.67	\$422.04	8.78	8.89	9.49	9.59	\$9.57
291	Petroleum refining .....	417.25	411.35	447.48	459.07	-	9.44	9.50	10.17	10.27	-
295	Paving and roofing materials .....	318.30	323.62	338.23	340.18	-	6.86	7.02	7.45	7.46	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	236.39	242.34	247.86	246.43	252.32	5.71	5.77	6.12	6.13	6.23
301	Tires and inner tubes .....	370.05	375.91	377.65	361.30	-	8.26	8.28	9.10	9.01	-
302	Rubber and plastics footwear .....	150.54	156.82	162.12	166.49	-	3.88	3.97	4.20	4.28	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	245.95	250.67	261.43	260.07	-	5.87	5.94	6.33	6.39	-
306	Fabricated rubber products, nec .....	221.94	228.10	233.56	234.77	-	5.40	5.47	5.81	5.84	-
307	Miscellaneous plastics products .....	212.16	216.83	226.08	226.73	-	5.20	5.25	5.61	5.64	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	147.26	148.77	157.32	159.71	162.87	3.98	4.01	4.31	4.34	4.39
311	Leather tanning and finishing .....	205.15	206.06	223.10	226.58	-	5.22	5.27	5.75	5.78	-
314	Footwear, except rubber .....	139.78	142.05	149.64	153.24	-	3.84	3.86	4.18	4.21	-
3143	Men's footwear, except athletic .....	147.73	151.60	163.61	165.24	-	3.95	4.00	4.41	4.43	-
3144	Women's footwear, except athletic .....	133.46	135.36	136.86	142.61	-	3.77	3.76	3.99	4.04	-
316	Luggage .....	162.11	160.45	175.80	172.37	-	4.30	4.36	4.59	4.56	-
317	Handbags and personal leather goods .....	144.02	141.75	152.22	150.26	-	3.79	3.79	4.07	4.05	-
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	310.42	315.57	337.16	339.60	343.71	7.78	7.85	8.45	8.49	8.55
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	354.53	359.75	406.73	(*)	-	8.15	8.27	9.14	(*)	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	194.36	191.08	206.40	206.57	-	5.65	5.62	6.00	6.04	-
411	Local and suburban transportation .....	287.02	284.97	282.49	279.35	-	6.85	6.90	6.89	6.83	-
413	Intercity highway transportation .....	312.58	287.45	332.10	349.91	-	8.14	8.12	9.00	9.16	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	319.20	332.88	345.79	344.05	-	7.96	8.06	8.71	8.71	-
421, 3	Trucking and trucking terminals .....	325.61	340.31	352.93	351.05	-	8.12	8.22	8.89	8.91	-
422	Public warehousing .....	225.50	224.47	236.56	246.23	-	5.68	5.64	6.05	6.11	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	374.69	376.74	416.11	422.61	-	8.90	9.10	9.61	9.76	-
48	<b>COMMUNICATION</b> .....	300.53	302.51	328.40	327.18	-	7.57	7.62	8.21	8.20	-
481	Telephone communication .....	310.80	313.58	343.40	342.19	-	7.77	7.82	8.50	8.47	-
4817	Switchboard operating employees <sup>3</sup> .....	226.24	223.07	233.77	247.04	-	6.52	6.41	7.02	7.14	-
4818	Line construction employees <sup>4</sup> .....	424.70	430.80	474.72	466.14	-	9.48	9.51	10.32	10.20	-
483	Radio and television broadcasting .....	258.40	257.80	266.11	267.08	-	6.80	6.82	6.93	7.01	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> ..	329.80	331.80	353.20	354.03	-	7.89	7.90	8.47	8.49	-
491	Electric services .....	334.22	339.89	357.81	360.73	-	7.92	7.96	8.56	8.63	-
492	Gas production and distribution .....	299.80	299.88	324.99	324.16	-	7.33	7.35	7.85	7.83	-
493	Combination utility services .....	370.90	367.04	394.80	393.86	-	8.81	8.76	9.40	9.40	-
496	Sanitary services .....	267.10	268.81	288.74	283.33	-	6.39	6.37	6.81	6.73	-
	<b>WHOLESALE AND RETAIL TRADE</b> .....	156.00	159.21	167.38	167.83	170.09	4.80	4.81	5.15	5.18	5.17
50, 51	<b>WHOLESALE TRADE</b> .....	235.52	240.07	253.24	256.23	260.29	6.07	6.14	6.51	6.57	6.64
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	238.55	244.16	256.24	258.86	-	6.07	6.15	6.52	6.57	-
501	Motor vehicles and automotive equipment .....	219.04	229.68	231.94	234.47	-	5.66	5.80	6.04	6.09	-
502	Furniture and home furnishings .....	210.10	214.10	226.13	228.31	-	5.50	5.59	6.03	6.04	-
503	Lumber and construction materials .....	243.36	246.76	261.36	261.46	-	6.13	6.20	6.60	6.67	-
504	Sporting goods, toys, and hobby goods .....	231.10	241.16	250.61	250.49	-	6.13	6.38	6.81	6.77	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	40.6	41.1	40.5	41.2	-	3.1	3.3	3.0	3.1	-
2841	Soap and other detergents .....	43.3	43.5	42.7	43.3	-	5.0	5.6	4.5	4.7	-
2844	Toilet preparations .....	38.8	39.7	39.4	40.2	-	1.8	1.8	2.2	2.1	-
2842, 3	Polishing, sanitation, and finishing preparations .....	40.3	40.4	39.6	40.2	-	2.9	2.8	2.6	2.6	-
285	Paints and allied products .....	41.4	41.7	40.3	40.3	-	3.0	3.0	2.4	2.2	-
286	Industrial organic chemicals .....	43.3	43.0	43.1	43.6	-	3.9	3.8	4.4	4.5	-
2865	Cyclic crudes and intermediates .....	42.6	43.2	42.2	43.6	-	4.0	4.5	4.5	4.9	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	43.6	42.9	43.4	43.6	-	3.8	3.6	4.4	4.3	-
287	Agricultural chemicals .....	42.7	42.8	42.9	43.3	-	4.8	4.5	4.7	4.8	-
289	Miscellaneous chemical products .....	42.2	42.4	41.5	41.8	-	3.7	3.9	3.8	4.0	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	44.5	43.7	44.1	44.7	44.1	4.5	4.5	4.4	4.7	-
291	Petroleum refining .....	44.2	43.3	44.0	44.7	-	3.8	3.9	3.7	4.1	-
295	Paving and roofing materials .....	46.4	46.1	45.4	45.6	-	7.2	7.4	7.6	7.5	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	41.4	42.0	40.5	40.2	40.5	3.9	4.0	3.3	3.1	-
301	Tires and inner tubes .....	44.8	45.4	41.5	40.1	-	5.7	6.4	4.0	2.9	-
302	Rubber and plastics footwear .....	38.8	39.5	38.6	38.9	-	2.0	2.4	2.1	2.3	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	41.9	42.2	41.3	40.7	-	4.8	4.6	3.9	3.5	-
306	Fabricated rubber products, nec .....	41.1	41.7	40.2	40.2	-	3.5	3.7	2.7	2.7	-
307	Miscellaneous plastics products .....	40.8	41.3	40.3	40.2	-	3.5	3.5	3.4	3.2	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	37.0	37.1	36.5	36.8	37.1	1.6	1.5	1.6	1.7	-
311	Leather tanning and finishing .....	39.3	39.1	38.8	39.2	-	2.8	2.6	2.4	2.7	-
314	Footwear, except rubber .....	36.4	36.8	35.8	36.4	-	1.2	1.3	1.4	1.4	-
3143	Men's footwear, except athletic .....	37.4	37.9	37.1	37.3	-	1.1	1.2	1.8	1.4	-
3144	Women's footwear, except athletic .....	35.4	36.0	34.3	35.3	-	1.2	1.4	1.1	1.4	-
316	Luggage .....	37.7	36.8	38.3	37.8	-	2.1	2.2	2.0	3.1	-
317	Handbags and personal leather goods .....	38.0	37.4	37.4	37.1	-	2.5	1.6	2.0	1.8	-
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	39.9	40.2	39.9	40.0	40.2					
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	43.5	43.5	44.5	(*)						
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	34.4	34.0	34.4	34.2	-	-	-	-	-	-
411	Local and suburban transportation .....	41.9	41.3	41.0	40.9	-	-	-	-	-	-
413	Intercity highway transportation .....	38.4	35.4	36.9	38.2	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	40.1	41.3	39.7	39.5	-	-	-	-	-	-
421, 3	Trucking and trucking terminals .....	40.1	41.4	39.7	39.4	-	-	-	-	-	-
422	Public warehousing .....	39.7	39.8	39.1	40.3	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	42.1	41.4	43.3	43.3	-	-	-	-	-	-
48	<b>COMMUNICATION</b> .....	39.7	39.7	40.0	39.9	-	-	-	-	-	-
481	Telephone communication .....	40.0	40.1	40.4	40.4	-	-	-	-	-	-
4817	Switchboard operating employees <sup>3</sup> .....	34.7	34.8	33.3	34.6	-	-	-	-	-	-
4818	Line construction employees <sup>4</sup> .....	44.8	45.3	46.0	45.7	-	-	-	-	-	-
483	Radio and television broadcasting .....	38.0	37.8	38.4	38.1	-	-	-	-	-	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	41.8	42.0	41.7	41.7	-	-	-	-	-	-
491	Electric services .....	42.2	42.7	41.8	41.8	-	-	-	-	-	-
492	Gas production and distribution .....	40.9	40.8	41.4	41.4	-	-	-	-	-	-
493	Combination utility services .....	42.1	41.9	42.0	41.9	-	-	-	-	-	-
495	Sanitary services .....	41.8	42.2	42.4	42.1	-	-	-	-	-	-
	<b>WHOLESALE AND RETAIL TRADE</b> .....	32.5	33.1	32.5	32.4	32.9					
50, 51	<b>WHOLESALE TRADE</b> .....	38.8	39.1	38.9	39.0	39.2					
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	39.3	39.7	39.3	39.4	-	-	-	-	-	-
501	Motor vehicles and automotive equipment .....	38.7	39.6	38.4	38.5	-	-	-	-	-	-
502	Furniture and home furnishings .....	38.2	38.3	37.5	37.8	-	-	-	-	-	-
503	Lumber and construction materials .....	39.7	39.8	39.6	39.2	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods .....	37.7	37.8	36.8	37.0	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 P	Dec. 1979 P
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	\$275.42	\$279.10	\$300.40	\$305.16	-	\$6.92	\$6.96	\$7.51	\$7.61	-
506	Electrical goods .....	238.78	247.10	261.30	267.02	-	6.17	6.24	6.70	6.76	-
507	Hardware, plumbing, and heating equipment .....	220.99	225.43	241.92	243.55	-	5.77	5.81	6.30	6.32	-
508	Machinery, equipment, and supplies .....	253.20	256.88	268.80	269.72	-	6.33	6.39	6.72	6.76	-
509	Miscellaneous durable goods .....	205.15	209.88	218.51	220.64	-	5.22	5.30	5.56	5.60	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	231.65	234.78	248.57	252.67	-	6.08	6.13	6.49	6.58	-
511	Paper and paper products .....	264.99	269.38	282.41	284.34	-	7.30	7.34	7.78	7.79	-
512	Drugs, proprietaries, and sundries .....	239.23	244.68	251.17	256.06	-	6.23	6.29	6.68	6.81	-
513	Apparel, piece goods, and notions .....	207.92	209.81	223.25	223.94	-	5.65	5.64	6.05	6.02	-
514	Groceries and related products .....	235.01	236.01	250.75	259.35	-	6.12	6.13	6.53	6.65	-
516	Chemicals and allied products .....	269.00	276.71	305.69	308.47	-	6.81	6.97	7.70	7.77	-
517	Petroleum and petroleum products .....	287.10	290.60	314.41	319.20	-	7.25	7.32	7.88	8.00	-
518	Beer, wine, and distilled beverages .....	273.35	282.36	271.58	281.15	-	7.27	7.45	7.36	7.64	-
519	Miscellaneous nondurable goods .....	190.62	194.18	204.14	204.06	-	4.99	5.07	5.33	5.37	-
52-59	<b>RETAIL TRADE</b> .....	131.89	134.90	139.54	140.45	\$141.83	4.31	4.31	4.59	4.62	\$4.59
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	181.61	181.13	191.86	190.32	-	4.83	4.83	5.13	5.13	-
521	Lumber and other building materials .....	202.29	201.17	214.24	213.15	-	5.07	5.08	5.41	5.41	-
525	Hardware stores .....	137.97	141.64	146.29	146.96	-	4.07	4.07	4.38	4.40	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	117.91	124.12	130.69	129.80	-	4.08	4.03	4.43	4.43	-
531	Department stores .....	122.54	128.44	136.29	134.90	-	4.24	4.17	4.62	4.62	-
533	Variety stores .....	97.92	106.22	106.86	106.03	-	3.40	3.46	3.61	3.57	-
539	Misc. general merchandise stores .....	93.15	97.24	104.66	104.02	-	3.19	3.22	3.56	3.55	-
54	<b>FOOD STORES</b> .....	171.81	172.58	180.34	184.28	-	5.42	5.41	5.78	5.85	-
541	Grocery stores .....	179.44	180.32	187.11	191.75	-	5.59	5.60	5.94	6.03	-
546	Retail bakeries .....	116.58	120.07	131.28	130.09	-	4.02	4.07	4.45	4.44	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	188.50	190.26	202.83	204.12	-	5.04	5.06	5.38	5.40	-
551, 2	New and used car dealers .....	232.32	233.31	242.26	244.05	-	6.05	6.06	6.26	6.29	-
553	Auto and home supply stores .....	183.60	187.92	196.83	198.53	-	4.50	4.55	4.86	4.89	-
554	Gasoline service stations .....	130.18	131.60	144.20	146.08	-	3.73	3.76	4.12	4.15	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	110.78	117.89	118.53	117.14	-	3.82	3.84	4.13	4.11	-
561	Men's and boys' clothing and furnishings .....	139.43	151.26	148.04	147.89	-	4.33	4.41	4.67	4.71	-
562	Women's ready-to-wear stores .....	95.90	102.90	104.39	103.25	-	3.50	3.50	3.81	3.81	-
565	Family clothing stores .....	107.53	115.94	111.79	111.39	-	3.67	3.74	3.95	3.95	-
566	Shoe stores .....	121.64	123.26	128.58	122.69	-	4.18	4.15	4.48	4.32	-
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	174.74	183.32	184.63	185.50	-	4.95	5.05	5.26	5.27	-
571	Furniture and home furnishings .....	180.93	189.33	189.56	190.45	-	5.14	5.23	5.37	5.38	-
572	Household appliance stores .....	187.82	192.92	192.42	196.38	-	5.09	5.20	5.39	5.44	-
573	Radio, television, and music stores .....	151.11	163.08	168.26	168.07	-	4.38	4.53	4.92	4.90	-
58	<b>EATING AND DRINKING PLACES</b> .....	87.45	88.31	90.57	90.74	-	3.30	3.32	3.47	3.49	-
59	<b>MISCELLANEOUS RETAIL</b> .....	133.24	139.26	146.56	146.24	-	4.19	4.22	4.58	4.57	-
591	Drug stores and proprietary stores .....	120.04	122.54	132.18	132.91	-	3.91	3.89	4.25	4.26	-
594	Miscellaneous shopping goods stores .....	118.04	128.44	130.90	128.40	-	3.87	3.94	4.32	4.28	-
596	Nonstore retailers .....	164.02	169.82	180.90	182.66	-	4.81	4.88	5.40	5.31	-
598	Fuel and ice dealers .....	222.22	231.66	235.80	240.30	-	5.64	5.72	6.00	6.13	-
599	Retail stores, nec .....	131.36	139.26	152.21	152.09	-	4.17	4.22	4.53	4.54	-
	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	182.59	184.04	194.93	197.29	199.84	5.03	5.07	5.37	5.42	5.49
60	<b>BANKING</b> .....	156.09	157.54	166.42	167.87	-	4.30	4.34	4.61	4.65	-
602	Commercial and stock savings banks .....	153.19	154.64	163.53	164.98	-	4.22	4.26	4.53	4.57	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	164.70	165.35	176.70	176.86	-	4.50	4.53	4.75	4.78	-
612	Savings and loan associations .....	153.87	155.30	170.85	169.46	-	4.31	4.35	4.63	4.63	-
614	Personal credit institutions .....	163.17	163.76	169.74	170.66	-	4.41	4.45	4.60	4.65	-
63	<b>INSURANCE CARRIERS</b> .....	199.76	202.17	213.18	216.92	-	5.37	5.42	5.70	5.80	-
631	Life insurance .....	197.42	200.56	211.31	216.97	-	5.35	5.45	5.62	5.74	-
632	Medical service and health insurance .....	195.56	197.49	209.63	212.43	-	5.16	5.17	5.62	5.68	-
633	Fire, marine, and casualty insurance .....	201.47	203.68	212.91	216.97	-	5.46	5.49	5.77	5.88	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sub>p</sub>	Dec. 1979 <sub>p</sub>	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sub>p</sub>	Dec. 1979 <sub>p</sub>
	<b>WHOLESALE TRADE-DURABLE</b>										
	<b>GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	39.8	40.1	40.0	40.1	-	-	-	-	-	-
506	Electrical goods .....	38.7	39.6	39.0	39.5	-	-	-	-	-	-
507	Hardware, plumbing, and heating equipment ..	38.3	38.8	38.4	38.6	-	-	-	-	-	-
508	Machinery, equipment, and supplies .....	40.0	40.2	40.0	39.9	-	-	-	-	-	-
509	Miscellaneous durable goods .....	39.3	39.6	39.3	39.4	-	-	-	-	-	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	38.1	38.3	38.3	38.4	-	-	-	-	-	-
511	Paper and paper products .....	36.3	36.7	36.3	36.5	-	-	-	-	-	-
512	Drugs, proprietaries, and sundries .....	38.4	38.9	37.6	37.6	-	-	-	-	-	-
513	Apparel, piece goods, and notions .....	36.8	37.2	36.9	37.2	-	-	-	-	-	-
514	Groceries and related products .....	38.4	38.5	38.4	39.0	-	-	-	-	-	-
516	Chemicals and allied products .....	39.5	39.7	39.7	39.7	-	-	-	-	-	-
517	Petroleum and petroleum products .....	39.6	39.7	39.9	39.9	-	-	-	-	-	-
518	Beer, wine, and distilled beverages .....	37.6	37.9	36.9	36.8	-	-	-	-	-	-
519	Miscellaneous nondurable goods .....	38.2	38.3	38.3	38.0	-	-	-	-	-	-
52-59	<b>RETAIL TRADE</b> .....	30.6	31.3	30.4	30.4	30.9	-	-	-	-	-
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	<b>SUPPLIES</b> .....	37.6	37.5	37.4	37.1	-	-	-	-	-	-
521	Lumber and other building materials .....	39.9	39.6	39.6	39.4	-	-	-	-	-	-
525	Hardware stores .....	33.9	34.8	33.4	33.4	-	-	-	-	-	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	28.9	30.8	29.5	29.3	-	-	-	-	-	-
531	Department stores .....	28.9	30.8	29.5	29.2	-	-	-	-	-	-
533	Variety stores .....	28.8	30.7	29.6	29.7	-	-	-	-	-	-
539	Misc. general merchandise stores .....	29.2	30.2	29.4	29.3	-	-	-	-	-	-
54	<b>FOOD STORES</b> .....	31.7	31.9	31.2	31.5	-	-	-	-	-	-
541	Grocery stores .....	32.1	32.2	31.5	31.8	-	-	-	-	-	-
546	Retail bakeries .....	29.0	29.5	29.5	29.3	-	-	-	-	-	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	<b>STATIONS</b> .....	37.4	37.6	37.7	37.8	-	-	-	-	-	-
551, 2	New and used car dealers .....	38.4	38.5	38.7	38.8	-	-	-	-	-	-
553	Auto and home supply stores .....	40.8	41.3	40.5	40.6	-	-	-	-	-	-
554	Gasoline service stations .....	34.9	35.0	35.0	35.2	-	-	-	-	-	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	29.0	30.7	28.7	28.5	-	-	-	-	-	-
561	Men's and boys' clothing and furnishings .....	32.2	34.3	31.7	31.4	-	-	-	-	-	-
562	Women's ready-to-wear stores .....	27.4	29.4	27.4	27.1	-	-	-	-	-	-
565	Family clothing stores .....	29.3	31.0	28.3	28.2	-	-	-	-	-	-
566	Shoe stores .....	29.1	29.7	28.7	28.4	-	-	-	-	-	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	<b>STORES</b> .....	35.3	36.3	35.1	35.2	-	-	-	-	-	-
571	Furniture and home furnishings .....	35.2	36.2	35.3	35.4	-	-	-	-	-	-
572	Household appliance stores .....	36.9	37.1	35.7	36.1	-	-	-	-	-	-
573	Radio, television, and music stores .....	34.5	36.0	34.2	34.3	-	-	-	-	-	-
58	<b>EATING AND DRINKING PLACES</b> .....	26.5	26.6	26.1	26.0	-	-	-	-	-	-
59	<b>MISCELLANEOUS RETAIL</b> .....	31.8	33.0	32.0	32.0	-	-	-	-	-	-
591	Drug stores and proprietary stores .....	30.7	31.5	31.1	31.2	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	30.5	32.6	30.3	30.0	-	-	-	-	-	-
596	Nonstore retailers .....	34.1	34.8	33.5	34.4	-	-	-	-	-	-
598	Fuel and ice dealers .....	39.4	40.5	39.3	39.2	-	-	-	-	-	-
599	Retail stores, nec .....	31.5	33.0	33.6	33.5	-	-	-	-	-	-
	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> ..	36.3	36.3	36.3	36.4	36.4	-	-	-	-	-
60	<b>BANKING</b> .....	36.3	36.3	36.1	36.1	-	-	-	-	-	-
602	Commercial and stock savings banks .....	36.3	36.3	36.1	36.1	-	-	-	-	-	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	36.6	36.5	37.2	37.0	-	-	-	-	-	-
612	Savings and loan associations .....	35.7	35.7	36.9	36.6	-	-	-	-	-	-
614	Personal credit institutions .....	37.0	36.8	36.9	36.7	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	37.2	37.3	37.4	37.4	-	-	-	-	-	-
631	Life insurance .....	36.9	36.8	37.6	37.8	-	-	-	-	-	-
632	Medical service and health insurance .....	37.9	38.2	37.3	37.4	-	-	-	-	-	-
633	Fire, marine, and casualty insurance .....	36.9	37.1	36.9	36.9	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p
	<b>SERVICES .....</b>	<b>\$167.24</b>	<b>\$167.70</b>	<b>\$178.65</b>	<b>\$180.28</b>	<b>\$182.79</b>	<b>\$5.13</b>	<b>\$5.16</b>	<b>\$5.48</b>	<b>\$5.53</b>	<b>\$5.59</b>
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts .....	114.82	114.84	123.41	124.64	-	3.74	3.79	4.02	4.10	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	133.21	134.21	144.70	145.17	-	3.85	3.89	4.17	4.22	-
723	Beauty shops .....	119.88	127.03	126.98	130.19	-	3.83	4.02	4.07	4.12	-
	<b>BUSINESS SERVICES .....</b>	<b>169.85</b>	<b>170.30</b>	<b>180.60</b>	<b>181.58</b>	<b>-</b>	<b>5.21</b>	<b>5.24</b>	<b>5.54</b>	<b>5.57</b>	<b>-</b>
731	Advertising .....	260.28	261.36	275.15	274.68	-	7.19	7.22	7.58	7.63	-
734	Services to buildings .....	123.94	124.49	128.31	128.25	-	4.54	4.56	4.70	4.75	-
737	Computer and data processing services .....	216.22	218.40	239.81	237.77	-	5.94	6.00	6.57	6.55	-
	<b>AUTO REPAIR, SERVICES, AND GARAGES .....</b>	<b>191.66</b>	<b>194.40</b>	<b>218.48</b>	<b>218.79</b>	<b>-</b>	<b>5.18</b>	<b>5.24</b>	<b>5.78</b>	<b>5.85</b>	<b>-</b>
753	Automotive repair shops .....	217.28	218.83	240.73	242.26	-	5.60	5.64	6.11	6.18	-
76	<b>MISCELLANEOUS REPAIR SERVICES .....</b>	<b>253.79</b>	<b>255.65</b>	<b>269.53</b>	<b>268.94</b>	<b>-</b>	<b>6.19</b>	<b>6.19</b>	<b>6.59</b>	<b>6.69</b>	<b>-</b>
	<b>MOTION PICTURES .....</b>	<b>191.82</b>	<b>188.22</b>	<b>209.12</b>	<b>224.52</b>	<b>-</b>	<b>6.95</b>	<b>6.92</b>	<b>7.66</b>	<b>7.99</b>	<b>-</b>
781	Motion picture production and services .....	368.86	363.26	410.22	434.79	-	9.81	9.61	10.60	11.12	-
79	<b>AMUSEMENT AND RECREATION SERVICES ..</b>	<b>151.70</b>	<b>149.70</b>	<b>153.70</b>	<b>159.43</b>	<b>-</b>	<b>4.99</b>	<b>4.99</b>	<b>5.30</b>	<b>5.46</b>	<b>-</b>
	<b>HEALTH SERVICES .....</b>	<b>161.70</b>	<b>162.20</b>	<b>172.66</b>	<b>174.50</b>	<b>-</b>	<b>4.90</b>	<b>4.93</b>	<b>5.28</b>	<b>5.32</b>	<b>-</b>
801	Offices of physicians .....	170.67	171.93	176.68	178.75	-	5.11	5.21	5.47	5.50	-
802	Offices of dentists .....	137.24	136.80	149.12	151.44	-	4.70	4.75	5.16	5.24	-
805	Nursing and personal care facilities .....	112.84	113.46	119.95	121.44	-	3.64	3.66	3.92	3.93	-
806	Hospitals .....	177.48	177.64	192.32	193.69	-	5.22	5.24	5.64	5.68	-
81	<b>LEGAL SERVICES .....</b>	<b>218.88</b>	<b>216.02</b>	<b>232.22</b>	<b>238.00</b>	<b>-</b>	<b>6.40</b>	<b>6.41</b>	<b>6.83</b>	<b>6.80</b>	<b>-</b>
	<b>MISCELLANEOUS SERVICES .....</b>	<b>280.82</b>	<b>284.21</b>	<b>300.20</b>	<b>302.06</b>	<b>-</b>	<b>7.39</b>	<b>7.44</b>	<b>7.90</b>	<b>7.97</b>	<b>-</b>
891	Engineering and architectural services .....	303.42	304.54	323.79	326.02	-	7.82	7.91	8.41	8.49	-
893	Accounting, auditing, and bookkeeping .....	238.88	243.96	259.46	259.24	-	6.37	6.42	6.81	6.84	-

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

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

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

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

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

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

<sup>\*</sup> Not available.

p = preliminary.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 p	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 p	Dec. 1979 P
	<b>SERVICES .....</b>	32.6	32.5	32.6	32.6	32.7	-	-	-	-	-
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts .....	30.7	30.3	30.7	30.4		-	-	-	-	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	34.6	34.5	34.7	34.4	-	-	-	-	-	-
723	Beauty shops .....	31.3	31.6	31.2	31.6	-	-	-	-	-	-
73	<b>BUSINESS SERVICES .....</b>	32.6	32.5	32.6	32.6	-	-	-	-	-	-
731	Advertising .....	36.2	36.2	36.3	36.0	-	-	-	-	-	-
734	Services to buildings .....	27.3	27.3	27.3	27.0	-	-	-	-	-	-
737	Computer and data processing services .....	36.4	36.4	36.5	36.3	-	-	-	-	-	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES .....</b>	37.0	37.1	37.8	37.4	-	-	-	-	-	-
753	Automotive repair shops .....	38.8	38.8	39.4	39.2	-	-	-	-	-	-
76	<b>MISCELLANEOUS REPAIR SERVICES .....</b>	41.0	41.3	40.9	40.2	-	-	-	-	-	-
78	<b>MOTION PICTURES .....</b>	27.6	27.2	27.3	28.1	-	-	-	-	-	-
781	Motion picture production and services .....	37.6	37.8	38.7	39.1	-	-	-	-	-	-
79	<b>AMUSEMENT AND RECREATION SERVICES .....</b>	30.4	30.0	29.0	29.2	-	-	-	-	-	-
80	<b>HEALTH SERVICES .....</b>	33.0	32.9	32.7	32.8	-	-	-	-	-	-
801	Offices of physicians .....	33.4	33.0	32.3	32.5	-	-	-	-	-	-
802	Offices of dentists .....	29.2	28.8	28.9	28.9	-	-	-	-	-	-
805	Nursing and personal care facilities .....	31.0	31.0	30.6	30.9	-	-	-	-	-	-
806	Hospitals .....	34.0	33.9	34.1	34.1	-	-	-	-	-	-
81	<b>LEGAL SERVICES .....</b>	34.2	33.7	34.0	35.0	-	-	-	-	-	-
89	<b>MISCELLANEOUS SERVICES .....</b>	38.0	38.2	38.0	37.9	-	-	-	-	-	-
891	Engineering and architectural services .....	38.8	38.5	38.5	38.4	-	-	-	-	-	-
893	Accounting, auditing, and bookkeeping .....	37.5	38.0	38.1	37.9	-	-	-	-	-	-



# 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	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Executive Branch													
Total employment .....	2,760.3	2,738.5	2,691.9	2,694.5	2,694.4	2,681.2	2677.5	2,686.3	2,688.3	2,697.4	2,720.3	2,770.2	2,783.0
Average weekly hours .....	39.8	39.7	39.5	39.9	39.9	40.1	39.7	39.7	39.5	39.5	39.4	39.4	39.8
Average overtime hours .....	1.2	1.2	1.3	1.3	1.2	1.5	1.2	1.1	1.1	1.1	1.0	1.0	1.2
Indexes (1967=100):													
Average weekly earnings ..	227.7	226.8	230.0	242.0	242.2	244.3	243.2	242.4	240.6	239.8	238.9	238.6	241.3
Average hourly earnings .....	225.4	225.1	229.5	238.9	239.2	240.0	241.4	240.5	240.0	239.2	238.9	238.6	238.9
Department of Defense													
Total employment .....	927.1	918.6	905.4	905.8	905.3	902.0	896.0	895.0	892.0	890.0	896.6	906.6	908.5
Average weekly hours .....	40.1	40.1	39.7	39.9	40.0	39.8	39.9	39.9	39.9	39.9	39.9	39.9	40.1
Average overtime hours .....	.9	1.0	1.2	1.0	.8	.9	.8	.9	.9	.8	.8	.8	.8
Indexes (1967=100):													
Average weekly earnings ..	220.4	221.2	223.3	232.5	233.7	234.1	234.7	234.7	235.2	234.4	235.2	233.6	233.4
Average hourly earnings .....	221.5	222.3	226.7	234.9	235.4	237.1	237.1	237.1	237.6	236.8	237.6	236.0	234.6
Postal Service													
Total employment .....	647.5	649.0	651.9	646.9	651.4	651.4	653.0	655.2	655.4	655.0	659.5	663.2	665.4
Average weekly hours .....	40.2	39.9	39.7	41.5	41.2	42.6	41.2	41.0	40.2	40.2	39.8	39.6	40.6
Average overtime hours .....	1.8	1.5	1.8	2.3	1.9	3.1	2.6	1.8	1.6	1.7	1.3	1.3	1.8
Indexes (1967=100):													
Average weekly earnings ..	261.9	260.3	259.3	278.7	275.9	289.4	280.8	276.9	271.5	271.8	268.1	274.0	281.2
Average hourly earnings .....	251.5	251.8	252.1	259.5	258.5	262.2	263.1	260.7	260.7	261.0	260.1	267.1	267.4
Other Agencies													
Total employment .....	1,185.7	1,170.9	1,134.6	1,141.8	1,137.7	1,127.8	1,128.5	1,136.1	1,140.9	1,152.4	1,164.2	1,200.4	1,209.1
Average weekly hours .....	39.3	39.3	39.1	39.0	39.0	38.8	38.7	38.8	38.8	38.8	38.8	38.8	39.2
Average overtime hours .....	1.1	1.2	1.2	1.1	1.0	1.0	.9	1.0	1.0	1.0	1.1	1.0	1.2
Indexes (1967=100):													
Average weekly earnings ..	214.6	213.4	218.3	229.1	231.4	227.7	229.9	229.7	227.7	226.7	226.0	223.3	226.6
Average hourly earnings .....	211.9	210.6	216.6	228.0	230.2	227.7	230.4	229.7	227.7	226.7	226.0	223.3	224.3

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

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

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

Major industry group	Average hourly earnings excluding overtime <sup>1</sup>				
	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sup>p</sup>	Dec. 1979 <sup>p</sup>
<b>MANUFACTURING</b>	<b>\$6.10</b>	<b>\$6.19</b>	<b>\$6.54</b>	<b>\$6.59</b>	<b>\$6.69</b>
<b>DURABLE GOODS</b>	<b>6.50</b>	<b>6.59</b>	<b>6.95</b>	<b>7.00</b>	<b>7.12</b>
Lumber and wood products .....	5.50	5.53	5.97	5.99	-
Furniture and fixtures .....	4.64	4.69	5.03	5.06	-
Stone, clay, and glass products .....	6.18	6.23	6.63	6.70	-
Primary metal industries .....	8.11	8.14	8.72	8.89	-
Fabricated metal products .....	6.24	6.31	6.67	6.72	-
Machinery, except electrical .....	6.66	6.76	7.11	7.17	-
Electric and electronic equipment .....	5.75	5.86	6.26	6.28	-
Transportation equipment .....	7.76	7.90	8.29	8.35	-
Instruments and related products .....	5.65	5.74	6.12	6.17	-
Miscellaneous manufacturing industries .....	4.64	4.72	4.94	4.96	-
<b>NONDURABLE GOODS</b>	<b>5.47</b>	<b>5.52</b>	<b>5.90</b>	<b>5.96</b>	<b>6.01</b>
Food and kindred products .....	5.69	5.74	6.04	6.17	-
Tobacco manufactures .....	5.86	6.02	6.30	6.86	-
Textile mill products .....	4.26	4.28	4.62	4.64	-
Apparel and other textile products .....	3.96	4.01	4.25	4.25	-
Paper and allied products .....	6.36	6.41	6.94	7.00	-
Printing and publishing .....	6.39	6.42	6.80	6.83	-
Chemicals and allied products .....	6.93	6.99	7.50	7.53	-
Petroleum and coal products .....	8.36	8.45	9.03	9.11	-
Rubber and misc. plastics products .....	5.46	5.51	5.88	5.90	-
Leather and leather products .....	3.90	3.93	4.22	4.24	-

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

<sup>p</sup>preliminary.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

Industry	Gross average weekly earnings			Spendable average weekly earnings <sup>2</sup>					
				Worker with no dependents			Married worker with 3 dependents		
	Nov. 1978	Oct. 1979	Nov. 1979 p	Nov. 1978	Oct. 1979	Nov. 1979 p	Nov. 1978	Oct. 1979	Nov. 1979 p
<b>TOTAL PRIVATE:</b>									
Current dollars .....	\$210.50	\$225.62	\$225.70	\$170.28	\$182.16	\$182.22	\$185.81	\$199.21	\$199.27
1967 dollars .....	104.31	100.01	99.17	84.38	80.74	80.06	92.08	88.30	87.55
<b>MINING:</b>									
Current dollars .....	352.59	374.51	381.06	265.48	281.20	285.12	291.35	310.12	314.89
1967 dollars .....	174.72	166.01	167.43	131.56	124.65	125.27	144.38	137.46	138.35
<b>CONSTRUCTION:</b>									
Current dollars .....	324.49	356.82	346.75	247.02	270.11	263.68	270.47	297.22	289.89
1967 dollars .....	160.80	158.16	152.35	122.41	119.73	115.85	134.03	131.75	127.37
<b>MANUFACTURING:</b>									
Current dollars .....	260.94	274.85	277.55	205.21	216.44	218.27	223.76	236.56	238.61
1967 dollars .....	129.31	121.83	121.95	101.69	95.94	95.90	110.88	104.86	104.84
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars .....	310.42	337.16	339.60	237.88	257.55	259.11	260.35	282.90	284.68
1967 dollars .....	153.83	149.45	149.21	117.88	114.16	113.84	129.01	125.40	125.08
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars .....	156.00	167.38	167.83	130.59	139.41	139.74	143.93	156.72	157.03
1967 dollars .....	77.30	74.19	73.74	64.71	61.80	61.40	71.32	69.47	68.99
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars .....	182.59	194.93	197.29	150.20	159.80	161.52	164.62	175.37	177.21
1967 dollars .....	90.48	86.41	86.68	74.43	70.83	70.97	81.58	77.74	77.86
<b>SERVICES:</b>									
Current dollars .....	167.24	178.65	180.28	139.02	147.85	149.07	152.70	164.32	165.41
1967 dollars .....	82.87	79.19	79.21	68.89	65.54	65.50	75.67	72.84	72.68
<b>CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)</b>	201.8	225.6	227.6						

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

p=preliminary (applicable to earnings data only).

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

# 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	Nov. 1978	Dec. 1978	Oct. 1979	Nov. <sup>p</sup> 1979 <sup>p</sup>	Dec. 1979 <sup>p</sup>
	Hours				
<b>TOTAL PRIVATE</b> .....	124.6	126.2	127.3	127.1	128.9
<b>GOODS-PRODUCING</b> .....	110.9	111.2	112.3	110.7	111.5
<b>MINING</b> .....	152.6	150.4	160.8	161.1	162.4
<b>CONSTRUCTION</b> .....	130.4	125.9	146.4	138.3	134.0
<b>MANUFACTURING</b> .....	106.0	107.2	104.6	104.0	105.7
<b>DURABLE GOODS</b> .....	109.4	111.6	107.4	106.7	109.2
Lumber and wood products .....	114.1	114.2	116.3	110.6	109.4
Furniture and fixtures .....	111.9	113.9	108.5	108.4	109.6
Stone, clay, and glass products .....	114.7	113.0	114.1	112.6	110.9
Primary metal industries .....	98.7	100.1	94.0	92.8	93.4
Fabricated metal products .....	108.1	110.5	107.4	107.3	109.1
Machinery, except electrical .....	114.6	119.8	114.0	115.4	119.4
Electric and electronic equipment .....	106.9	108.7	108.9	110.1	112.6
Transportation equipment .....	107.1	111.7	98.6	95.5	103.3
Instruments and related products .....	127.7	129.5	128.0	129.3	132.3
Miscellaneous manufacturing industries .....	107.2	100.9	105.6	105.0	100.2
<b>NONDURABLE GOODS</b> .....	101.0	100.8	100.5	100.1	100.7
Food and kindred products .....	98.3	97.3	101.1	98.2	97.2
Tobacco manufactures .....	81.8	81.8	79.1	69.0	73.2
Textile mill products .....	91.9	92.2	91.1	92.2	93.5
Apparel and other textile products .....	93.2	91.3	89.8	89.2	89.3
Paper and allied products .....	101.4	102.3	103.3	103.6	105.3
Printing and publishing .....	102.5	104.3	104.9	107.1	109.0
Chemicals and allied products .....	108.4	108.6	107.9	108.6	110.5
Petroleum and coal products .....	125.4	121.7	128.1	128.7	125.5
Rubber and misc. plastics products .....	153.1	155.5	146.9	145.2	145.3
Leather and leather products .....	69.8	68.5	65.0	65.4	65.3
<b>SERVICE-PRODUCING</b> .....	134.2	136.6	137.7	138.5	141.0
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	112.4	113.6	116.5	116.7	117.6
<b>WHOLESALE AND RETAIL TRADE</b> .....	130.1	135.5	130.7	132.4	137.1
<b>WHOLESALE TRADE</b> .....	130.2	131.7	134.4	135.0	136.1
<b>RETAIL TRADE</b> .....	130.1	136.9	129.3	131.3	137.5
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	141.9	142.2	147.0	147.7	148.6
<b>SERVICES</b> .....	147.5	147.3	154.4	154.4	155.0

<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' on private nonagricultural payrolls by industry division and major manufacturing group—Continued

[1967=100]

Industry division and group	Nov. 1978	Dec. 1978	Oct. 1979	Nov. 1979 <sup>p</sup>	Dec. 1979 <sup>p</sup>
	Payrolls				
<b>TOTAL PRIVATE</b> .....	273.6	278.5	300.0	300.9	306.8
<b>GOODS-PRODUCING</b> .....	252.3	255.4	274.8	271.8	276.3
<b>MINING</b> .....	385.6	380.1	432.2	439.7	446.2
<b>CONSTRUCTION</b> .....	281.7	273.1	337.7	319.3	310.2
<b>MANUFACTURING</b> .....	239.5	245.9	252.4	252.9	260.9
<b>DURABLE GOODS</b> .....	242.7	258.0	259.6	259.6	270.3
Lumber and wood products .....	277.6	279.6	307.0	291.8	289.3
Furniture and fixtures .....	230.9	237.9	242.5	243.4	249.0
Stone, clay, and glass products .....	266.0	263.7	283.4	281.8	277.8
Primary metal industries .....	252.0	256.7	256.3	257.8	261.6
Fabricated metal products .....	237.3	245.5	251.1	252.4	260.6
Machinery, except electrical .....	251.9	268.4	266.5	272.3	286.5
Electric and electronic equipment .....	230.1	238.8	254.6	258.8	269.4
Transportation equipment .....	257.9	273.4	248.9	241.8	267.2
Instruments and related products .....	261.7	270.7	283.7	290.1	299.6
Miscellaneous manufacturing industries .....	218.9	209.0	230.0	229.6	223.5
<b>NONDURABLE GOODS</b> .....	223.7	225.4	240.2	241.5	244.9
Food and kindred products .....	222.2	222.0	243.8	241.9	240.8
Tobacco manufactures .....	217.2	222.8	224.2	213.2	226.5
Textile mill products .....	199.0	200.9	213.9	218.0	222.1
Apparel and other textile products .....	185.6	183.5	191.0	190.0	192.8
Paper and allied products .....	238.3	241.8	264.1	267.3	273.1
Printing and publishing .....	208.3	213.3	226.1	232.0	238.1
Chemicals and allied products .....	252.1	254.9	271.8	274.8	282.0
Petroleum and coal products .....	307.9	302.3	339.7	345.0	335.9
Rubber and misc. plastics products .....	318.7	326.6	327.3	324.1	330.0
Leather and leather products .....	134.3	132.9	135.8	137.3	138.7
<b>SERVICE-PRODUCING</b> .....	292.0	298.4	321.8	326.0	333.1
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	270.4	275.6	304.3	306.4	310.8
<b>WHOLESALE AND RETAIL TRADE</b> .....	277.5	289.2	298.7	304.2	314.5
<b>WHOLESALE TRADE</b> .....	274.9	281.2	304.0	308.2	314.4
<b>RETAIL TRADE</b> .....	279.0	293.8	295.7	302.0	314.6
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	276.3	279.4	305.3	309.7	315.5
<b>SERVICES</b> .....	330.7	331.9	369.6	373.3	378.5

# ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	35.8	35.8	35.7	35.9	35.3	35.7	35.6	35.6	35.6	35.7	35.6	35.7	35.7
<b>MINING</b> .....	43.4	43.4	43.1	43.1	42.9	42.8	43.0	41.6	43.2	43.1	43.1	43.3	43.9
<b>CONSTRUCTION</b> .....	37.0	37.1	36.6	37.1	35.5	37.1	37.2	36.8	37.2	37.5	36.6	36.8	37.1
<b>MANUFACTURING</b> .....	40.6	40.6	40.6	40.6	39.1	40.2	40.1	40.2	40.1	40.2	40.2	40.1	40.3
<i>Overtime hours</i> .....	3.7	3.7	3.7	3.7	2.7	3.5	3.4	3.3	3.2	3.2	3.2	3.2	3.3
<b>DURABLE GOODS</b> .....	41.4	41.4	41.4	41.4	39.5	40.9	40.7	40.7	40.7	40.7	40.8	40.6	40.8
<i>Overtime hours</i> .....	4.0	4.1	4.1	4.0	2.7	3.8	3.6	3.5	3.3	3.3	3.3	3.4	3.3
Lumber and wood products .....	39.9	39.9	39.6	40.0	39.1	39.4	39.4	39.3	39.5	39.7	39.4	39.3	39.8
Furniture and fixtures .....	39.2	38.9	38.8	39.1	38.1	38.5	38.5	38.4	38.3	38.6	38.8	38.9	38.8
Stone, clay, and glass products .....	41.9	41.8	41.6	42.0	41.2	41.7	41.6	41.4	41.3	41.5	41.3	41.5	41.7
Primary metal industries .....	42.2	42.3	42.2	42.0	41.8	41.4	41.2	41.3	41.0	41.0	41.1	40.7	40.6
Fabricated metal products .....	41.3	41.1	41.3	41.3	39.1	40.7	40.7	40.8	40.6	40.7	40.9	40.6	40.9
Machinery, except electrical .....	42.4	42.3	42.5	42.4	40.5	42.0	42.0	41.9	41.6	41.9	41.6	41.6	41.7
Electric and electronic equipment .....	40.5	40.5	40.7	40.7	39.0	40.4	40.3	40.2	39.8	40.3	40.3	40.5	40.6
Transportation equipment .....	42.8	42.8	42.7	42.3	37.9	41.5	40.8	40.9	41.7	40.6	41.3	40.6	41.1
Instruments and related products .....	40.9	41.1	41.2	41.2	40.3	40.8	40.6	40.7	40.5	40.6	40.7	40.9	41.0
Miscellaneous manufacturing ind .....	38.9	39.0	39.0	39.0	37.6	38.6	38.9	39.3	39.1	39.1	39.1	39.1	39.2
<b>NONDURABLE GOODS</b> .....	39.4	39.5	39.3	39.4	38.6	39.2	39.2	39.2	39.2	39.3	39.3	39.4	39.5
<i>Overtime hours</i> .....	3.2	3.2	3.2	3.3	2.7	3.0	3.0	3.0	3.0	3.1	3.0	3.2	3.2
Food and kindred products .....	39.9	40.0	39.8	40.0	39.6	39.8	39.8	39.8	39.7	40.0	39.9	39.9	40.0
Tobacco manufactures .....	38.1	37.2	36.9	38.0	37.6	38.9	37.6	38.5	38.0	38.6	38.3	37.7	38.7
Textile mill products .....	40.4	40.7	40.1	40.3	38.8	40.0	40.1	40.1	40.1	40.6	40.8	41.0	41.2
Apparel and other textile products .....	35.5	35.3	35.4	35.4	34.2	35.2	35.2	35.3	35.3	35.3	35.3	35.3	35.7
Paper and allied products .....	42.8	42.8	42.7	42.8	41.8	42.6	42.5	42.5	42.6	42.4	42.6	42.7	42.9
Printing and publishing .....	37.6	37.7	37.7	37.7	37.1	37.4	37.4	37.5	37.7	37.5	37.4	37.6	37.5
Chemicals and allied products .....	41.8	42.0	42.0	41.9	41.7	41.9	41.7	41.9	42.0	41.7	41.7	41.9	41.9
Petroleum and coal products .....	43.8	43.5	43.6	44.0	43.9	43.7	43.3	43.6	43.7	44.1	43.7	44.3	44.2
Rubber and misc. plastics products .....	41.2	41.4	41.2	41.3	39.7	40.9	40.7	40.6	40.2	40.3	40.3	39.9	39.7
Leather and leather products .....	36.7	36.8	36.4	36.3	35.6	36.1	36.4	36.6	36.5	37.0	36.5	36.7	36.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.0	40.0	40.0	40.0	39.2	39.8	39.8	39.7	39.9	39.9	39.9	40.0	40.0
<b>WHOLESALE AND RETAIL TRADE</b> .....	32.8	32.5	32.5	32.7	32.8	32.6	32.6	32.6	32.5	32.6	32.6	32.7	32.6
<b>WHOLESALE TRADE</b> .....	38.9	38.7	38.7	39.0	38.7	39.0	38.8	38.8	38.7	38.7	38.8	39.0	39.0
<b>RETAIL TRADE</b> .....	30.9	30.6	30.6	30.7	30.9	30.6	30.6	30.6	30.5	30.7	30.6	30.7	30.5
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.3	36.3	36.4	36.4	36.5	36.1	36.2	36.3	36.1	36.4	36.2	36.5	36.4
<b>SERVICES</b> .....	32.6	32.6	32.6	32.8	32.7	32.7	32.7	32.8	32.7	32.7	32.6	32.7	32.8

For coverage of series, see footnote 1, table B-2.

p=preliminary.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED

## C-8. Indexes of aggregate weekly hours of production or nonsupervisory workers' on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

[1967=100]

Industry division and group	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	124.2	124.4	124.7	125.7	123.6	125.4	125.7	125.7	125.5	125.9	125.8	126.3	126.9
<b>GOODS-PRODUCING</b> .....	109.8	110.3	110.2	111.3	106.8	110.3	110.1	109.9	109.4	109.7	109.0	108.7	110.2
<b>MINING</b> .....	151.3	152.0	152.5	152.5	152.0	151.6	152.5	148.4	156.7	157.4	158.1	159.0	163.6
<b>CONSTRUCTION</b> .....	127.9	128.9	126.7	132.7	124.9	133.7	134.4	133.9	134.5	135.4	132.7	133.7	136.5
<b>MANUFACTURING</b> .....	105.1	105.6	105.8	106.0	102.0	104.7	104.3	104.4	103.3	103.4	103.1	102.5	103.7
<b>DURABLE GOODS</b> .....	108.8	109.2	109.9	110.1	105.0	108.3	107.9	107.9	106.8	107.1	106.2	105.2	106.4
Lumber and wood products .....	115.6	115.9	114.9	116.4	112.4	113.3	112.7	111.9	112.3	113.6	113.3	111.4	110.9
Furniture and fixtures .....	110.2	109.9	109.1	109.4	105.8	105.9	105.3	105.9	104.5	104.8	105.9	106.2	106.2
Stone, clay, and glass products .....	113.4	113.0	112.8	114.9	111.5	113.1	113.0	111.5	110.8	111.2	110.6	110.6	111.3
Primary metal industries .....	99.6	100.1	100.3	100.2	99.7	97.9	97.9	97.8	95.9	95.3	94.6	93.2	92.9
Fabricated metal products .....	107.8	107.6	108.7	108.6	102.7	106.6	107.1	106.7	104.8	105.4	106.1	105.5	106.3
Machinery, except electrical .....	115.3	115.8	117.4	117.5	113.0	117.4	117.6	118.0	116.2	117.7	114.3	114.1	115.0
Electric and electronic equipment .....	105.5	106.6	107.8	108.5	104.4	108.2	108.6	108.5	104.7	107.2	107.6	107.7	109.3
Transportation equipment .....	105.6	105.9	106.9	105.9	94.3	102.6	99.4	100.3	102.6	100.1	97.4	93.8	97.6
Instruments and related products .....	126.3	128.2	129.4	129.7	127.2	128.1	128.4	128.1	127.2	127.2	127.8	127.5	129.4
Miscellaneous manufacturing ind .....	101.8	102.3	101.7	101.7	97.5	98.7	100.3	100.7	100.8	99.9	99.9	99.9	100.8
<b>NONDURABLE GOODS</b> .....	99.8	100.3	99.8	100.1	97.8	99.5	99.1	99.1	98.2	98.1	98.5	98.7	99.7
Food and kindred products .....	97.7	98.1	97.0	98.1	96.8	97.0	96.8	95.9	94.6	95.0	96.1	96.5	97.7
Tobacco manufactures .....	73.6	71.8	70.0	73.4	73.9	76.5	72.6	73.0	66.7	70.5	69.9	60.9	66.6
Textile mill products .....	91.0	91.9	90.3	90.6	86.7	89.5	89.6	89.8	89.0	89.8	90.6	91.3	92.2
Apparel and other textile products .....	91.0	91.0	90.3	89.9	86.8	89.5	88.7	89.5	88.0	87.5	87.9	87.3	89.0
Paper and allied products .....	100.7	101.1	101.8	103.0	100.8	102.3	102.1	103.2	103.1	102.2	102.7	102.8	103.8
Printing and publishing .....	101.5	102.5	103.1	103.4	101.7	103.1	103.3	104.4	104.7	103.9	104.3	105.9	105.8
Chemicals and allied products .....	107.8	108.7	108.5	108.1	107.7	108.3	108.4	108.8	108.2	107.6	107.9	108.3	109.8
Petroleum and coal products .....	123.6	122.7	123.9	125.0	125.7	124.2	123.1	123.0	124.2	126.2	125.1	126.6	127.4
Rubber and misc. plastics products .....	152.0	153.5	154.0	154.4	148.4	153.4	150.4	150.5	145.6	143.5	143.5	142.4	141.9
Leather and leather products .....	68.4	67.9	66.6	66.1	63.9	65.4	66.0	61.3	64.9	66.1	65.2	64.9	65.2
<b>SERVICE-PRODUCING</b> .....	134.2	134.2	134.8	135.8	135.3	135.9	136.5	136.7	136.6	137.2	137.5	138.5	138.5
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	112.5	112.8	113.3	113.7	109.2	113.4	115.0	114.2	115.2	114.9	115.8	116.2	116.3
<b>WHOLESALE AND RETAIL TRADE</b> .....	129.5	129.0	129.3	130.2	130.6	130.2	130.0	129.9	129.6	130.4	130.7	131.6	131.0
<b>WHOLESALE TRADE</b> .....	130.5	130.5	130.8	132.3	131.3	132.8	132.8	132.7	132.4	132.5	133.4	134.6	135.1
<b>RETAIL TRADE</b> .....	129.0	128.5	128.7	129.3	130.3	129.1	128.9	128.9	128.5	129.6	129.7	130.5	129.4
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	142.7	143.3	144.1	144.6	145.5	144.5	145.7	146.5	146.3	147.1	146.7	148.4	148.9
<b>SERVICES</b> .....	148.4	148.6	149.5	151.1	151.0	151.7	152.6	153.5	153.4	153.8	154.1	155.3	156.2

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

p=preliminary.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED

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

Industry	1978	1979											
	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov. <sup>P</sup>	Dec. <sup>P</sup>
<b>Hourly Earnings Index<sup>2</sup> (1967=100)</b>													
<b>TOTAL PRIVATE</b> (In current dollars) . . . . .	220.9	222.6	224.0	225.2	226.8	227.5	229.0	230.9	232.2	234.3	234.9	237.1	239.1
MINING . . . . .	250.9	252.1	253.7	256.1	264.1	262.7	264.7	266.9	265.6	266.1	268.0	271.4	274.0
CONSTRUCTION . . . . .	213.0	213.8	216.7	216.5	218.1	220.4	220.4	222.1	223.1	224.4	224.0	225.6	226.5
MANUFACTURING . . . . .	224.2	225.4	227.2	228.7	231.0	232.2	233.9	235.4	236.9	238.7	240.0	242.1	244.2
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	239.0	240.8	241.7	243.1	241.7	243.7	246.4	251.3	252.6	255.6	255.8	258.0	260.5
WHOLESALE AND RETAIL TRADE . . . . .	214.7	217.7	218.1	219.4	220.9	221.0	222.6	223.8	225.4	227.0	227.4	229.4	230.4
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	202.1	202.4	204.2	204.8	207.5	207.0	208.0	210.8	211.5	214.4	213.1	216.2	218.4
SERVICES . . . . .	219.3	220.8	222.2	223.3	225.0	224.3	225.7	227.0	228.4	231.5	232.3	234.6	237.4
<b>TOTAL PRIVATE</b> (In 1967 dollars) <sup>3</sup> . . . . .	108.7	108.5	107.8	107.3	106.9	106.1	105.7	105.6	105.1	104.9	104.2	104.1	-
<b>Average hourly earnings</b>													
<b>TOTAL PRIVATE</b> . . . . .	\$5.92	\$5.96	\$6.00	\$6.04	\$6.04	\$6.09	\$6.13	\$6.18	\$6.22	\$6.26	\$6.28	\$6.33	\$6.39
MINING . . . . .	8.08	8.18	8.23	8.28	8.56	8.43	8.49	8.49	8.57	8.50	8.57	8.71	8.79
CONSTRUCTION . . . . .	8.88	8.94	9.06	9.03	9.11	9.20	9.19	9.27	9.32	9.39	9.38	9.45	9.48
MANUFACTURING . . . . .	6.43	6.46	6.51	6.56	6.56	6.65	6.68	6.72	6.74	6.78	6.82	6.87	6.91
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	7.83	7.88	7.92	7.96	7.91	7.99	8.09	8.21	8.30	8.37	8.39	8.45	8.53
WHOLESALE AND RETAIL TRADE . . . . .	4.85	4.92	4.93	4.96	4.99	5.00	5.03	5.07	5.10	5.12	5.14	5.19	5.22
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	5.09	5.09	5.14	5.16	5.22	5.21	5.23	5.30	5.32	5.40	5.38	5.45	5.51
SERVICES . . . . .	5.14	5.18	5.22	5.24	5.27	5.26	5.31	5.35	5.39	5.45	5.46	5.51	5.57
<b>Average weekly earnings</b>													
<b>TOTAL PRIVATE:</b>													
Current dollars . . . . .	211.94	213.37	214.20	216.84	213.21	217.41	218.23	220.01	221.43	223.48	223.57	225.98	228.12
1967 dollars <sup>3</sup> . . . . .	104.30	103.98	103.13	103.31	100.48	101.40	100.75	100.60	100.24	100.04	99.19	99.24	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) <sup>3, 4</sup> . . . . .	91.97	92.46	91.66	91.68	89.35	89.96	89.34	89.12	88.73	88.44	87.69	87.61	-

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

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

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

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

N.A.=not available.

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		
	OCTOBER 1979	NOVEMBER p1979	DECEMBER p1979	Dec. 1978 to Dec. 1979	Oct. 1979 to Nov. 1979	Nov. 1979 to Dec. 1979
<b>TOTAL</b> . . . . .	169,503	169,710	170,905	2.2	0.1	0.7
<b>PRIVATE SECTOR</b> . . . . .	138,623	139,295	140,040	2.6	0.5	0.5
MINING . . . . .	2,155	2,221	2,268	9.4	3.1	2.1
CONSTRUCTION . . . . .	8,980	9,070	9,275	7.0	1.0	2.3
MANUFACTURING . . . . .	43,420	43,288	43,735	-0.2	-0.3	1.0
DURABLE GOODS . . . . .	26,588	26,440	26,733	-0.4	-0.6	1.1
NONDURABLE GOODS . . . . .	16,832	16,848	17,002	0.1	0.1	0.9
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	10,821	10,886	10,891	3.6	0.6	0.0
WHOLESALE AND RETAIL TRADE . . . . .	34,414	34,697	34,553	1.5	0.8	-0.4
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	9,475	9,574	9,619	5.0	1.0	0.5
SERVICES . . . . .	29,357	29,559	29,700	5.2	0.7	0.5
<b>GOVERNMENT</b> . . . . .	30,880	30,414	30,865	0.6	-1.5	1.5

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

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

# PRODUCTIVITY SEASONALLY ADJUSTED

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

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1977				1978				1979		
	1977	1978	I	II	III	IV	I	II	III	IV	I	II	III
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons ....	118.6	119.2	118.5	117.9	119.4	118.8	118.4	119.0	119.7	119.8	118.9	118.2	118.0
Output .....	133.8	140.7	131.0	132.8	135.2	136.1	136.9	140.3	141.8	144.0	144.4	143.4	144.0
Hours .....	112.8	118.1	110.6	112.6	113.2	114.5	115.6	117.9	118.4	120.2	121.5	121.3	122.0
Compensation per hour .....	213.0	231.2	207.7	210.8	215.3	218.5	224.2	228.5	233.6	238.4	244.8	250.3	255.6
Real compensation per hour .....	117.3	118.3	117.2	116.7	117.6	117.9	118.7	118.1	118.2	118.0	118.0	116.9	115.8
Unit labor costs .....	179.6	194.0	175.2	178.8	180.2	183.8	189.4	192.1	195.2	199.0	205.9	211.7	216.6
Unit nonlabor payments .....	165.6	174.3	161.4	164.7	167.9	168.6	164.8	173.9	177.0	181.3	180.8	183.7	185.5
Implicit price deflator .....	174.8	187.2	170.5	173.9	176.0	178.6	180.9	185.8	188.9	192.9	197.2	202.0	205.9
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons ....	116.2	116.8	116.4	115.8	116.7	116.3	116.0	116.5	117.3	117.6	116.6	115.4	115.2
Output .....	134.3	141.5	131.7	133.4	135.6	136.4	137.3	141.1	142.7	145.0	145.5	144.2	144.8
Hours .....	115.6	121.1	113.2	115.2	116.2	117.3	118.4	121.1	121.6	123.4	124.8	124.9	125.7
Compensation per hour .....	209.3	227.3	204.1	207.3	211.2	214.8	220.6	224.6	229.4	234.3	240.2	244.8	249.8
Real compensation per hour .....	115.3	116.3	115.2	114.7	115.4	115.9	116.8	116.1	116.1	116.0	115.8	114.3	113.2
Unit labor costs .....	180.1	194.5	175.4	179.0	180.9	184.7	190.2	192.7	195.6	199.3	206.0	212.1	216.9
Unit nonlabor payments .....	163.9	169.9	159.1	163.2	167.1	166.0	161.1	169.2	173.0	176.1	174.3	177.6	180.4
Implicit price deflator .....	174.5	186.1	169.8	173.6	176.2	178.3	180.2	184.7	187.8	191.4	195.1	200.3	204.4
<b>MANUFACTURING:</b>													
Output per hour of all persons ....	127.2	128.0	125.4	127.3	128.4	127.8	125.7	127.2	129.2	129.8	129.0	130.0	131.0
Output .....	128.2	134.5	124.2	128.1	129.9	130.8	130.1	133.4	135.9	138.5	140.1	139.7	139.8
Hours .....	100.8	105.1	99.0	100.6	101.1	102.3	103.4	104.8	105.2	106.7	108.5	107.5	106.7
Compensation per hour .....	212.0	229.5	206.4	209.7	214.1	217.5	223.2	226.6	231.4	236.5	242.4	248.2	253.1
Real compensation per hour .....	116.8	117.5	116.5	116.1	117.0	117.4	118.1	117.1	117.0	117.1	116.9	115.9	114.6
Unit labor costs .....	166.6	179.4	164.6	164.7	166.7	170.2	177.5	178.1	179.1	182.2	187.9	190.9	193.1
<b>DURABLE GOODS</b>													
Output per hour of all persons ....	121.2	121.3	119.5	121.6	122.3	121.7	118.9	120.9	122.5	122.8	121.8	122.7	122.6
Output .....	122.5	129.6	117.8	122.2	124.4	125.5	124.4	128.3	131.3	134.5	136.2	135.4	134.6
Hours .....	101.0	106.9	98.6	100.5	101.7	103.2	104.6	106.1	107.2	109.5	111.8	110.3	109.7
Compensation per hour .....	213.8	230.8	208.2	211.6	215.9	219.4	224.5	227.9	232.5	237.9	243.8	249.5	254.3
Real compensation per hour .....	117.8	118.1	117.5	117.1	118.0	118.4	118.9	117.8	117.6	117.7	117.5	116.5	115.2
Unit labor costs .....	176.4	190.4	174.3	174.0	176.6	180.3	188.8	188.5	189.9	193.7	200.1	203.3	207.4
<b>NONDURABLE GOODS</b>													
Output per hour of all persons ....	137.0	139.0	135.1	136.6	138.5	137.9	136.9	137.5	140.3	141.4	141.1	142.1	145.1
Output .....	137.6	142.3	134.6	137.6	138.8	139.3	139.3	141.6	143.2	145.1	146.3	146.9	148.4
Hours .....	100.4	102.4	99.6	100.7	100.2	101.1	101.7	103.0	102.1	102.6	103.7	103.4	102.3
Compensation per hour .....	208.6	226.1	203.6	206.6	210.6	213.8	220.1	223.6	228.1	232.4	238.0	244.1	248.9
Real compensation per hour .....	114.9	115.7	114.9	114.4	115.1	115.3	116.5	115.5	115.4	115.0	114.8	114.0	112.8
Unit labor costs .....	152.3	162.7	150.7	151.2	152.1	155.1	160.7	162.6	162.6	164.3	168.7	171.8	171.6
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour ....	116.8	117.9	116.8	116.5	117.4	116.7	116.7	117.8	118.4	118.8	118.1	117.3	117.5
Output .....	141.2	150.0	138.4	140.4	142.7	143.4	144.7	149.7	151.4	154.2	155.1	154.1	154.7
Hours .....	120.9	127.2	118.5	120.5	121.5	122.9	124.1	127.1	127.8	129.8	131.3	131.4	131.7
Compensation per hour .....	207.6	224.8	202.5	205.7	209.5	212.8	218.5	222.3	226.9	231.3	237.4	242.1	247.1
Real compensation per hour .....	114.4	115.0	114.3	113.8	114.5	114.8	115.7	114.9	114.8	114.5	114.5	113.1	111.9
Total unit costs .....	181.8	193.3	177.7	180.5	182.4	186.3	190.8	191.6	194.0	196.8	202.3	208.0	212.6
Unit labor costs .....	177.7	190.6	173.4	176.6	178.4	182.3	187.3	188.7	191.5	194.8	201.0	206.4	210.3
Unit nonlabor costs .....	194.3	201.8	191.0	192.4	194.8	198.7	201.5	200.8	201.6	203.1	206.5	213.2	219.9
Unit profits .....	122.7	127.2	114.1	123.3	130.9	122.2	107.1	129.2	132.7	138.7	130.3	129.2	129.0
Implicit price deflator .....	173.0	183.5	168.3	172.0	174.7	176.8	178.3	182.3	184.9	188.2	191.6	196.3	200.2

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					
	I 1978	II 1978	III 1978	IV 1978	I 1979	II 1979	II 1977	III 1977	IV 1977	I 1978	II 1978	III 1978
	to II 1978	to III 1978	to IV 1978	to I 1979	to II 1979	to III 1979	to II 1978	to III 1978	to IV 1978	to I 1979	to II 1979	to III 1979
<b>PRIVATE BUSINESS SECTOR:</b>												
Output per hour of all persons .....	2.0	2.4	0.3	-3.0	-2.2	-0.7	0.9	0.2	0.8	0.4	-0.6	-1.4
Output .....	10.5	4.2	6.4	1.2	-2.9	1.7	5.7	4.8	5.8	5.5	2.2	1.6
Hours .....	8.4	1.7	6.1	4.4	-0.7	2.5	4.7	4.6	5.0	5.1	2.8	3.0
Compensation per hour .....	7.9	9.2	8.5	11.1	9.3	8.8	8.4	8.5	9.1	9.2	9.5	9.4
Real compensation per hour .....	-2.1	0.3	-0.7	0.1	-3.8	-3.6	1.2	0.4	0.1	-0.6	-1.0	-2.0
Unit labor costs .....	5.8	6.6	8.1	14.6	11.8	9.6	7.4	8.3	8.3	8.7	10.2	11.0
Unit nonlabor payments .....	24.0	7.4	9.9	-1.0	6.5	4.0	5.6	5.4	7.5	9.7	5.6	4.8
Implicit price deflator .....	11.2	6.9	8.7	9.3	10.1	7.8	6.8	7.4	8.0	9.0	8.7	9.0
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons .....	1.9	2.7	0.8	-3.2	-4.1	-0.7	0.6	0.5	1.1	0.5	-1.0	-1.8
Output .....	11.5	4.5	6.8	1.2	-3.6	1.9	5.7	5.2	6.3	5.9	2.2	1.5
Hours .....	9.4	1.8	5.9	4.6	0.5	2.6	5.1	4.7	5.2	5.4	3.2	3.4
Compensation per hour .....	7.5	8.8	8.8	10.4	7.9	8.5	8.4	8.7	9.1	8.9	9.0	8.9
Real compensation per hour .....	-2.5	0.0	-0.4	-0.6	-5.0	-3.9	1.2	0.6	0.1	-0.8	-1.5	-2.5
Unit labor costs .....	5.4	6.0	8.0	14.0	12.5	9.3	7.7	8.1	7.9	8.3	10.1	10.9
Unit nonlabor payments .....	21.5	9.4	7.3	-4.0	7.8	6.4	3.7	3.5	6.1	8.2	5.0	4.3
Implicit price deflator .....	10.2	7.0	7.8	8.1	11.0	8.4	6.4	6.6	7.3	8.3	8.5	8.8
<b>MANUFACTURING:</b>												
Output per hour of all persons .....	4.8	6.3	2.0	-2.4	2.9	3.3	-0.1	0.6	1.6	2.6	2.2	1.4
Output .....	10.6	7.6	8.1	4.6	-0.9	0.3	4.1	4.6	5.9	7.7	4.8	2.9
Hours .....	5.5	1.3	5.9	7.1	-3.7	-2.9	4.2	4.0	4.3	4.9	2.6	1.5
Compensation per hour .....	6.3	8.7	9.3	10.3	9.8	8.1	8.0	8.1	8.7	8.6	9.5	9.4
Real compensation per hour .....	-3.5	-0.1	0.0	-0.6	-3.4	-4.2	0.9	0.0	-0.3	-1.1	-1.0	-2.1
Unit labor costs .....	1.4	2.2	7.1	13.0	6.7	4.7	8.1	7.4	7.1	5.9	7.2	7.8
<b>DURABLE GOODS</b>												
Output per hour of all persons .....	6.9	5.1	1.2	-3.2	2.9	-0.2	-0.6	0.2	0.9	2.4	1.5	0.1
Output .....	13.3	9.6	10.0	5.3	-2.5	-2.3	5.0	5.6	7.1	9.5	5.5	2.5
Hours .....	5.9	4.3	8.7	8.8	-5.2	-2.2	5.6	5.4	6.1	6.9	4.0	2.3
Compensation per hour .....	6.1	8.3	9.6	10.3	9.7	8.0	7.7	7.7	8.4	8.6	9.5	9.4
Real compensation per hour .....	-3.7	-0.4	0.4	-0.6	-3.5	-4.4	0.5	-0.3	-0.5	-1.1	-1.1	-2.1
Unit labor costs .....	-0.8	3.1	8.3	13.9	6.6	8.2	8.3	7.5	7.4	6.0	7.9	9.2
<b>NONDURABLE GOODS</b>												
Output per hour of all persons .....	1.7	8.2	3.4	-0.9	2.7	8.7	0.6	1.3	2.6	3.1	3.3	3.4
Output .....	6.8	4.8	5.3	3.4	1.5	4.3	2.9	3.2	4.1	5.1	3.7	3.6
Hours .....	4.9	-3.2	1.8	4.4	-1.2	-4.1	2.2	1.9	1.5	1.9	0.4	0.2
Compensation per hour .....	6.5	8.3	7.8	10.0	10.6	8.1	8.2	8.3	8.7	8.1	9.2	9.1
Real compensation per hour .....	-3.3	-0.4	-1.3	-0.9	-2.6	-4.3	1.0	0.3	-0.3	-1.5	-1.3	-2.3
Unit labor costs .....	4.7	0.1	4.2	11.0	7.7	-0.6	7.5	7.0	6.0	4.9	5.7	5.5
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour .....	4.1	2.0	1.1	-2.1	-2.8	0.7	1.2	0.8	1.8	1.3	-0.5	-0.8
Output .....	14.5	4.6	7.6	2.5	-2.6	1.6	6.7	6.1	7.5	7.2	2.9	2.2
Hours .....	10.0	2.5	6.4	4.6	0.3	0.9	5.4	5.2	5.6	5.8	3.4	3.0
Compensation per hour .....	7.2	8.4	8.1	11.0	8.0	8.5	8.1	8.3	8.7	8.7	8.9	8.9
Real compensation per hour .....	-2.7	-0.4	-1.0	0.0	-4.9	-3.9	0.9	0.2	-0.3	-1.0	-1.6	-2.5
Total unit costs .....	1.8	5.1	5.9	11.7	11.8	9.2	6.2	6.4	5.6	6.1	8.6	9.6
Unit labor costs .....	2.9	6.2	6.9	13.4	11.2	7.8	6.8	7.4	6.8	7.3	9.4	9.8
Unit nonlabor costs .....	-1.3	1.7	2.9	6.8	13.5	13.3	4.3	3.5	2.2	2.5	6.2	9.1
Unit profits .....	111.3	11.4	19.5	-22.1	-3.4	-0.7	4.7	1.4	13.6	21.7	0.0	-2.8
Implicit price deflator .....	9.3	5.7	7.3	7.6	10.2	8.2	6.0	5.8	6.4	7.5	7.7	8.3

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		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>ALABAMA</b> .....	\$228.58	\$250.50	\$250.72	40.6	41.2	40.9	\$5.63	\$6.08	\$6.13
Birmingham .....	266.12	288.80	291.36	40.2	40.0	38.9	6.62	7.22	7.49
Mobile .....	272.56	324.86	(*)	40.2	43.2	(*)	6.78	7.52	(*)
<b>ALASKA</b> .....	361.12	460.61	(*)	41.7	46.2	(*)	8.66	9.97	(*)
<b>ARIZONA</b> .....	251.13	274.05	281.26	40.9	40.6	41.0	6.14	6.75	6.86
Phoenix .....	252.76	272.16	281.93	41.1	40.5	41.4	6.15	6.72	6.81
Tucson .....	227.94	251.13	248.18	38.7	39.3	38.9	5.89	6.39	6.38
<b>ARKANSAS</b> .....	192.76	213.73	208.05	39.1	40.1	38.6	4.93	5.33	5.39
Fayetteville-Springdale .....	173.71	198.55	192.48	39.3	41.8	40.1	4.42	4.75	4.80
Fort Smith .....	200.19	217.17	218.01	39.8	39.2	39.0	5.03	5.54	5.59
Little Rock-North Little Rock .....	226.16	240.99	244.61	40.1	40.3	40.1	5.64	5.98	6.10
Pine Bluff .....	257.71	299.48	294.70	41.3	42.3	42.1	6.24	7.08	7.00
<b>CALIFORNIA</b> .....	268.52	288.72	292.25	40.5	40.1	40.2	6.63	7.20	7.27
Anaheim-Santa Ana-Garden Grove .....	249.26	266.24	270.91	41.2	40.4	40.8	6.05	6.59	6.64
Bakersfield .....	279.03	316.27	324.36	39.3	40.6	40.8	7.10	7.79	7.95
Fresno .....	241.00	263.56	258.69	39.9	40.3	38.9	6.04	6.54	6.65
Los Angeles-Long Beach .....	251.53	270.14	276.74	41.1	40.2	40.4	6.12	6.72	6.85
Modesto .....	260.80	280.40	286.13	40.0	40.0	40.3	6.52	7.01	7.10
Oxnard-Simi Valley-Ventura .....	230.98	250.49	254.02	40.1	39.2	38.9	5.76	6.39	6.53
Riverside-San Bernardino-Ontario .....	277.26	303.28	303.06	40.3	40.6	40.3	6.88	7.47	7.52
Sacramento .....	286.89	312.45	308.03	39.3	39.5	38.6	7.30	7.91	7.98
Salinas-Seaside-Monterey .....	251.54	259.04	256.67	37.6	36.9	36.1	6.69	7.02	7.11
San Diego .....	245.25	266.73	271.83	38.5	38.6	39.0	6.37	6.91	6.97
San Francisco-Oakland .....	319.59	342.68	348.13	39.8	39.8	40.2	8.03	8.61	8.66
San Jose .....	286.82	304.37	309.96	40.8	40.8	41.0	7.03	7.46	7.56
Santa Barbara-Santa Maria-Lompoc .....	215.94	244.57	254.22	36.6	37.0	38.0	5.90	6.61	6.69
Santa Rosa .....	235.59	260.70	254.10	37.1	39.5	37.7	6.35	6.60	6.74
Stockton .....	291.40	301.07	309.25	39.7	39.1	39.8	7.34	7.70	7.77
Vallejo-Fairfield-Napa .....	282.08	307.32	308.11	38.8	39.4	39.1	7.27	7.80	7.88
<b>COLORADO</b> .....	249.95	271.47	273.74	39.3	39.4	39.5	6.36	6.89	6.93
Denver-Boulder .....	249.16	272.83	275.41	39.3	39.2	39.4	6.34	6.96	6.99
<b>CONNECTICUT</b> .....	260.47	279.36	(*)	42.7	42.2	(*)	6.10	6.62	(*)
Bridgeport .....	274.74	294.01	301.09	44.1	43.3	43.7	6.23	6.79	6.89
Hartford .....	292.38	311.32	315.92	44.1	43.0	43.1	6.63	7.24	7.33
New Britain .....	269.33	295.06	303.46	43.3	43.2	43.6	6.22	6.83	6.96
New Haven-West Haven .....	265.20	279.47	281.63	42.5	41.9	41.6	6.24	6.67	6.77
Stamford .....	261.84	275.94	282.91	42.3	42.0	42.8	6.19	6.57	6.61
Waterbury .....	229.27	245.23	249.37	42.3	42.5	42.7	5.42	5.77	5.84
<b>DELAWARE</b> .....	270.12	287.50	282.82	39.9	39.6	39.5	6.77	7.26	7.16
Wilmington .....	297.89	317.58	316.00	39.3	39.5	39.5	7.58	8.04	8.00
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA .....	266.23	289.54	301.51	39.5	38.4	40.8	6.74	7.54	7.39
<b>FLORIDA</b> .....	213.09	227.21	230.77	41.7	40.5	40.7	5.11	5.61	5.67
Fort Lauderdale-Hollywood .....	198.05	218.28	228.23	40.5	40.8	41.8	4.89	5.35	5.46
Jacksonville .....	252.89	260.74	266.90	41.8	40.3	40.5	6.05	6.47	6.59
Miami .....	183.51	197.90	200.10	40.6	39.9	40.1	4.52	4.96	4.99
Orlando .....	231.23	239.84	243.38	42.9	42.3	42.4	5.39	5.67	5.74
Pensacola .....	283.36	299.90	307.98	44.0	42.6	43.5	6.44	7.04	7.08
Tampa-St. Petersburg .....	216.11	235.18	232.64	41.8	40.9	40.6	5.17	5.75	5.73
West Palm Beach-Boca Raton .....	249.55	237.63	258.72	43.4	37.6	39.2	5.75	6.32	6.60
<b>GEORGIA</b> .....	204.32	220.19	224.95	40.3	40.7	41.2	5.07	5.41	5.46
Atlanta .....	242.38	255.42	261.20	39.8	39.6	40.0	6.09	6.45	6.53
Savannah .....	280.37	309.50	316.84	43.2	43.9	44.5	6.49	7.05	7.12
<b>HAWAII</b> <sup>1</sup> .....	238.70	256.37	254.80	38.5	39.2	38.9	6.20	6.54	6.55
Honolulu <sup>1</sup> .....	234.74	254.41	259.39	37.8	38.2	38.6	6.21	6.66	6.72
<b>IDAHO</b> .....	262.25	266.56	256.67	39.2	38.8	36.1	6.69	6.87	7.11
Boise City .....	260.15	246.77	(*)	39.9	38.8	(*)	6.52	6.36	(*)

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		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>ILLINOIS</b>	\$280.93	\$303.43	\$308.90	40.3	41.0	41.4	\$6.97	\$7.40	\$7.47
Bloomington—Normal	260.64	264.30	286.96	42.0	40.8	42.7	6.21	6.48	6.71
Champaign—Urbana—Rantoul	263.85	270.12	282.16	39.6	39.2	40.4	6.66	6.89	6.99
Chicago SMSA	274.80	291.19	291.79	40.7	40.5	40.7	6.75	7.19	7.17
Davenport—Rock Island—Moline	281.40	337.22	334.77	37.4	38.9	39.3	7.52	8.67	8.51
Decatur	328.72	313.65	310.87	43.0	39.0	39.1	7.64	8.03	7.95
Peoria	352.91	338.18	330.22	40.5	40.5	39.8	8.72	8.34	8.29
Rockford	292.57	308.63	316.03	42.8	42.0	42.9	6.84	7.33	7.37
Springfield	320.86	313.46	318.17	42.8	41.9	41.7	7.50	7.48	7.64
<b>INDIANA</b>	305.53	319.16	321.15	41.4	40.4	40.6	7.38	7.90	7.91
Gary—Hammond—East Chicago	407.27	411.53	(*)	41.9	39.8	(*)	9.72	10.34	(*)
Indianapolis	307.33	322.75	(*)	42.1	40.7	(*)	7.30	7.93	(*)
<b>IOWA</b>	293.71	308.21	332.11	40.4	40.5	40.9	7.27	7.61	8.12
Cedar Rapids	305.53	327.18	338.87	42.2	41.0	42.2	7.24	7.98	8.03
Des Moines	297.94	327.13	345.63	39.1	39.7	41.0	7.62	8.24	8.43
Dubuque	339.29	293.88	401.85	40.2	37.2	41.3	8.44	7.90	9.73
Sioux City	288.42	311.03	312.56	43.7	42.9	42.7	6.60	7.25	7.32
Waterloo—Cedar Falls	377.57	319.22	421.42	41.4	38.6	42.1	9.12	8.27	10.01
<b>KANSAS</b>	(*)	287.82	292.70	(*)	41.0	41.4	(*)	7.02	7.07
Topeka	(*)	313.53	304.16	(*)	41.2	40.5	(*)	7.61	7.51
Wichita	(*)	311.44	323.88	(*)	42.2	43.3	(*)	7.38	7.48
<b>KENTUCKY</b>	261.70	274.72	275.42	40.2	39.7	39.8	6.51	6.92	6.92
Louisville	294.26	313.98	317.56	40.2	40.1	40.3	7.32	7.83	7.88
<b>LOUISIANA</b>	277.13	299.04	302.52	41.8	42.0	41.9	6.63	7.12	7.22
Baton Rouge	355.34	367.16	388.51	43.6	42.3	43.8	8.15	8.68	8.87
New Orleans	263.08	294.35	301.60	39.8	41.4	42.3	6.61	7.11	7.13
Shreveport	251.27	265.61	265.17	39.2	40.8	40.3	6.41	6.51	6.58
<b>MAINE</b>	205.74	225.12	228.80	40.5	40.2	40.0	5.08	5.60	5.72
Lewiston—Auburn	166.80	176.05	185.22	38.7	36.6	37.8	4.31	4.81	4.90
Portland	198.90	215.21	216.22	39.7	39.2	39.1	5.01	5.49	5.53
<b>MARYLAND</b>	270.54	291.27	295.07	40.5	39.9	40.2	6.68	7.30	7.34
Baltimore	289.57	309.87	314.98	40.9	40.4	40.8	7.08	7.67	7.72
<b>MASSACHUSETTS</b>	231.99	250.34	(*)	40.7	39.8	(*)	5.70	6.29	(*)
Boston	258.54	282.98	(*)	41.3	40.6	(*)	6.26	6.97	(*)
Brockton	180.30	187.47	(*)	38.2	37.8	(*)	4.72	4.96	(*)
Fall River	162.72	188.84	(*)	36.0	37.1	(*)	4.52	5.09	(*)
Lawrence—Haverhill	223.79	243.98	(*)	39.4	39.1	(*)	5.68	6.24	(*)
Lowell	203.20	197.63	(*)	40.0	37.5	(*)	5.08	5.27	(*)
New Bedford	196.56	197.40	(*)	39.0	37.6	(*)	5.04	5.25	(*)
Springfield—Chicopee—Holyoke	233.35	249.90	(*)	41.3	40.9	(*)	5.65	6.11	(*)
Worcester	243.02	263.90	(*)	41.4	40.6	(*)	5.87	6.50	(*)
<b>MICHIGAN</b>	(*)	365.15	347.66	(*)	41.0	39.2	(*)	8.91	8.87
Ann Arbor	(*)	362.89	362.80	(*)	39.6	38.6	(*)	9.16	9.40
Battle Creek	(*)	364.17	366.60	(*)	41.2	41.4	(*)	8.84	8.86
Bay City	(*)	309.10	309.04	(*)	39.7	39.6	(*)	7.79	7.80
Detroit	(*)	396.86	375.66	(*)	41.5	39.9	(*)	9.56	9.42
Flint	(*)	427.87	395.73	(*)	42.6	39.4	(*)	10.04	10.04
Grand Rapids	(*)	300.82	292.04	(*)	40.4	39.1	(*)	7.45	7.47
Jackson	(*)	339.75	326.64	(*)	42.4	41.3	(*)	8.01	7.91
Kalamazoo—Portage	(*)	335.30	324.56	(*)	40.9	39.6	(*)	8.20	8.20
Lansing—East Lansing	(*)	383.81	359.35	(*)	39.2	37.3	(*)	9.79	9.63
Muskegon—Norton Shores—Muskegon Heights	(*)	319.96	291.17	(*)	41.0	37.8	(*)	7.80	7.70
Saginaw	(*)	403.56	397.52	(*)	40.3	39.8	(*)	10.01	9.99
<b>MINNESOTA</b>	269.87	284.49	285.37	40.4	39.9	39.8	6.68	7.13	7.17
Duluth—Superior	246.72	275.02	275.42	39.1	39.8	39.8	6.31	6.91	6.92
Minneapolis—St. Paul	288.56	301.68	304.76	40.7	39.8	40.1	7.09	7.58	7.60
<b>MISSISSIPPI</b>	189.14	202.10	203.81	40.5	40.1	40.2	4.67	5.04	5.07
Jackson	213.19	227.15	231.68	42.3	41.3	42.2	5.04	5.50	5.49

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		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>MISSOURI</b>	\$266.02	\$272.45	\$274.62	40.8	39.6	39.8	\$6.52	\$6.88	\$6.90
Kansas City	296.43	316.80	319.56	41.0	40.0	40.4	7.23	7.92	7.91
St. Joseph	239.98	273.77	271.17	39.6	40.8	39.3	6.06	6.71	6.90
St. Louis	306.91	307.93	311.48	41.7	40.2	40.4	7.36	7.66	7.71
Springfield	217.40	237.07	240.01	39.1	38.8	38.9	5.56	6.11	6.17
<b>MONTANA</b>	355.18	377.13	383.67	43.0	43.7	43.5	8.26	8.63	8.82
<b>NEBRASKA</b>	252.13	278.21	275.64	41.4	41.4	41.7	6.09	6.72	6.61
Lincoln	252.05	261.74	260.04	40.2	39.9	39.4	6.27	6.56	6.60
Omaha	269.51	286.88	288.95	41.4	39.9	40.3	6.51	7.19	7.17
<b>NEVADA</b>	257.40	280.47	280.30	39.0	38.9	40.1	6.60	7.21	6.99
Las Vegas	322.00	376.94	(*)	40.0	38.7	(*)	8.05	9.74	(*)
<b>NEW HAMPSHIRE</b>	209.30	221.92	223.51	40.8	39.7	39.7	5.13	5.59	5.63
Manchester	180.11	197.76	199.56	38.9	38.7	38.9	4.63	5.11	5.13
Nashua	235.45	241.97	250.28	42.5	40.6	41.3	5.54	5.95	6.06
<b>NEW JERSEY</b>	265.43	263.98	288.81	41.8	41.7	42.1	6.35	6.81	6.86
Atlantic City	187.77	198.59	204.22	39.2	37.4	38.1	4.79	5.31	5.36
Camden <sup>1</sup>	253.17	273.82	284.66	40.9	41.3	41.8	6.19	6.63	6.81
Hackensack <sup>2</sup>	256.08	258.07	263.89	43.7	42.1	42.7	5.86	6.13	6.18
Jersey City <sup>3</sup>	264.68	276.71	282.08	41.1	41.3	41.3	6.44	6.70	6.83
New Brunswick—Perth Amboy—Sayreville <sup>4</sup>	287.87	305.42	312.00	41.6	40.4	41.6	6.92	7.56	7.50
Newark <sup>5</sup>	267.34	292.40	295.91	42.3	42.5	42.7	6.32	6.88	6.93
Paterson—Clifton—Passaic <sup>3</sup>	253.57	264.04	274.91	41.5	41.0	42.1	6.11	6.44	6.53
Trenton	270.68	297.88	290.60	41.2	41.2	40.7	6.57	7.23	7.14
<b>NEW MEXICO</b>	195.82	214.38	218.74	39.4	39.7	39.2	4.97	5.40	5.58
Albuquerque	196.91	217.21	218.62	39.7	40.6	38.9	4.96	5.35	5.62
<b>NEW YORK</b>	253.13	267.06	269.72	40.5	39.8	39.9	6.25	6.71	6.76
Albany—Schenectady—Troy	279.39	285.82	288.97	41.7	40.6	40.7	6.70	7.04	7.10
Binghamton	232.82	249.87	257.30	41.5	41.3	41.3	5.61	6.05	6.23
Buffalo	346.01	356.29	356.29	42.3	41.0	41.0	8.18	8.69	8.69
Elmira	255.02	272.54	275.11	41.0	40.8	41.0	6.22	6.68	6.71
Monroe County <sup>4</sup>	331.19	366.21	364.91	42.9	41.9	41.8	7.72	8.74	8.73
Nassau—Suffolk <sup>5</sup>	234.77	251.93	255.20	40.2	39.8	40.0	5.84	6.33	6.38
New York—Northeastern New Jersey	239.19	254.16	(*)	40.2	39.9	(*)	5.95	6.37	(*)
New York and Nassau—Suffolk <sup>5</sup>	218.27	230.57	234.08	38.7	38.3	38.5	5.64	6.02	6.08
New York SMSA <sup>5</sup>	214.10	225.13	228.60	38.3	37.9	38.1	5.59	5.94	6.00
New York City <sup>6</sup>	210.52	221.25	224.32	38.0	37.5	37.7	5.54	5.90	5.95
Poughkeepsie	254.98	270.26	273.68	41.8	41.9	42.3	6.10	6.45	6.47
Rochester	308.98	339.44	339.46	42.5	41.7	41.6	7.27	8.14	8.16
Rockland County <sup>6</sup>	252.66	256.19	259.26	41.9	40.6	40.7	6.03	6.31	6.37
Syracuse	284.08	302.33	302.22	42.4	41.7	41.4	6.70	7.25	7.30
Utica—Rome	238.32	261.94	264.79	40.6	40.8	40.8	5.87	6.42	6.49
Westchester County <sup>6</sup>	246.93	256.89	267.34	41.5	41.3	42.1	5.95	6.22	6.35
<b>NORTH CAROLINA</b>	185.78	200.80	204.83	40.3	40.0	40.4	4.61	5.02	5.07
Asheville	191.10	201.06	204.59	42.0	40.7	41.0	4.55	4.94	4.99
Charlotte—Gastonia	191.22	203.50	208.66	41.3	40.7	41.4	4.63	5.00	5.04
Greensboro—Winston-Salem—High Point	202.40	217.01	222.96	40.4	39.6	40.1	5.01	5.46	5.56
Raleigh—Durham	206.96	226.40	233.69	40.5	40.0	40.5	5.11	5.66	5.77
<b>NORTH DAKOTA</b>	223.18	252.55	234.00	39.5	40.8	39.0	5.65	6.19	6.00
Fargo—Moorhead	238.85	289.00	267.04	38.4	42.5	40.4	6.22	6.80	6.61
<b>OHIO</b>	322.06	329.16	329.60	42.6	41.3	41.2	7.56	7.97	8.00
Akron	317.69	330.22	331.52	42.7	41.8	41.7	7.44	7.90	7.95
Canton	319.80	334.56	337.43	41.0	40.8	41.2	7.80	8.20	8.19
Cincinnati	302.32	305.70	313.17	42.7	41.2	41.7	7.08	7.42	7.51
Cleveland	338.43	335.69	333.73	43.5	41.7	41.1	7.78	8.05	8.12
Columbus	273.10	289.35	287.83	40.4	39.8	39.7	6.76	7.27	7.25
Dayton	329.47	347.73	342.76	42.9	42.2	41.8	7.68	8.24	8.20
Toledo <sup>6</sup>	332.28	342.77	341.52	42.6	41.1	40.9	7.80	8.34	8.35
Youngstown—Warren	375.20	380.95	383.80	42.3	40.7	40.7	8.87	9.36	9.43

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		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>OKLAHOMA</b> .....	\$246.04	\$271.89	\$280.83	40.4	40.4	40.7	\$6.09	\$6.73	\$6.90
Oklahoma City .....	240.19	283.58	301.86	40.3	42.2	43.0	5.96	6.72	7.02
Tulsa .....	258.55	293.45	296.86	39.9	40.7	40.5	6.48	7.21	7.33
<b>OREGON</b> .....	289.42	310.23	308.94	38.9	38.3	38.0	7.44	8.10	8.13
Eugene—Springfield .....	313.95	326.52	(*)	39.0	38.1	(*)	8.05	8.57	(*)
Jackson County .....	306.15	319.61	(*)	39.2	38.6	(*)	7.81	8.28	(*)
Portland .....	270.84	301.34	307.55	38.2	38.0	38.3	7.09	7.93	8.03
<b>PENNSYLVANIA</b> .....	270.50	284.57	294.35	40.8	39.8	40.6	6.63	7.15	7.25
Allentown—Bethlehem—Easton .....	263.45	289.86	292.11	38.8	38.7	39.0	6.79	7.49	7.49
Altoona .....	213.01	241.74	243.76	37.7	39.5	39.7	5.65	6.12	6.14
Delaware Valley .....	278.53	288.08	293.71	40.9	39.9	40.4	6.81	7.22	7.27
Erie .....	273.65	298.03	302.28	42.1	41.8	42.1	6.50	7.13	7.18
Harrisburg .....	242.80	272.41	281.99	40.0	41.4	41.9	6.07	6.58	6.73
Johnstown .....	288.26	304.17	301.84	40.6	38.6	38.5	7.10	7.88	7.84
Lancaster .....	239.09	256.26	263.13	40.8	41.2	41.9	5.86	6.22	6.28
Northeast Pennsylvania .....	192.00	200.75	208.48	37.5	36.7	37.7	5.12	5.47	5.53
Philadelphia SMSA .....	274.44	285.91	291.91	40.9	40.1	40.6	6.71	7.13	7.19
Pittsburgh .....	329.54	349.46	362.61	41.4	40.4	41.3	7.96	8.65	8.78
Reading .....	239.34	260.24	268.71	39.3	38.9	39.4	6.09	6.69	6.82
Scranton .....	198.78	207.36	211.46	38.9	38.4	38.8	5.11	5.40	5.45
Wilkes-Barre—Hazleton .....	186.22	193.40	204.79	36.3	35.1	36.7	5.13	5.51	5.58
Williamsport .....	235.22	264.80	269.34	39.6	40.0	40.2	5.94	6.62	6.70
York .....	250.16	259.16	258.03	42.4	41.4	42.3	5.90	6.26	6.10
<b>RHODE ISLAND</b> .....	191.84	203.31	206.72	39.8	38.8	39.3	4.82	5.24	5.26
Providence—Warwick—Pawtucket .....	194.57	201.89	206.06	40.2	38.9	39.4	4.84	5.19	5.23
<b>SOUTH CAROLINA</b> .....	198.92	216.07	221.43	41.1	41.0	41.7	4.84	5.27	5.31
Charleston—North Charleston .....	230.03	237.21	249.07	41.9	39.8	41.1	5.49	5.96	6.06
Columbia .....	192.23	214.49	221.01	40.3	40.7	41.7	4.77	5.27	5.30
Greenville—Spartanburg .....	196.46	212.68	219.12	41.1	40.9	41.5	4.78	5.20	5.28
<b>SOUTH DAKOTA</b> .....	226.50	249.42	249.10	42.1	41.5	42.8	5.38	6.01	5.82
Rapid City .....	204.73	195.36	197.12	39.6	35.2	35.2	5.17	5.55	5.60
Sioux Falls .....	297.98	341.82	346.44	47.6	44.8	51.4	6.26	7.63	6.74
<b>TENNESSEE</b> .....	210.14	224.24	224.24	39.8	39.9	39.9	5.28	5.62	5.62
Chattanooga .....	219.91	230.68	237.72	40.8	40.4	41.2	5.39	5.71	5.77
Knoxville .....	245.22	261.20	266.93	40.6	40.0	40.2	6.04	6.53	6.64
Memphis .....	253.98	262.44	261.39	41.5	40.5	40.4	6.12	6.48	6.47
Nashville—Davidson .....	226.56	248.06	247.66	40.1	40.8	40.6	5.65	6.08	6.10
<b>TEXAS</b> .....	252.05	271.01	276.22	41.8	41.0	41.6	6.03	6.61	6.64
Amarillo .....	230.10	261.84	263.95	39.0	42.3	42.3	5.90	6.19	6.24
Austin .....	200.22	208.06	206.55	42.6	41.2	40.9	4.70	5.05	5.05
Beaumont—Port Arthur—Orange .....	369.06	377.20	375.65	41.8	41.0	41.1	8.59	9.20	9.14
Corpus Christi .....	295.22	309.32	295.42	42.6	40.7	39.6	6.93	7.60	7.46
Dallas—Fort Worth .....	238.63	252.76	257.72	41.5	40.9	41.5	5.75	6.18	6.21
El Paso .....	189.24	200.15	206.95	41.5	39.4	38.9	4.56	5.08	5.32
Galveston—Texas City .....	388.33	422.82	426.61	43.1	43.5	43.8	9.01	9.72	9.74
Houston .....	323.35	344.00	347.33	44.6	43.6	43.8	7.25	7.85	7.93
Lubbock .....	186.64	205.92	206.91	41.2	41.6	41.3	4.53	4.95	5.01
San Antonio .....	181.94	198.70	200.00	39.9	40.8	40.9	4.56	4.87	4.89
Waco .....	214.77	235.01	237.72	40.6	40.8	41.2	5.29	5.76	5.77
Wichita Falls .....	222.77	236.40	243.32	40.8	39.4	39.5	5.46	6.00	6.16
<b>UTAH</b> .....	240.13	252.29	260.69	40.7	38.4	39.8	5.90	6.57	6.55
Salt Lake City—Ogden .....	230.87	237.78	249.05	41.3	38.6	40.3	5.59	6.16	6.18
<b>VERMONT</b> .....	212.98	228.63	231.99	40.8	40.9	40.7	5.22	5.59	5.70
Burlington .....	238.29	249.78	249.64	42.4	41.7	41.4	5.62	5.99	6.03
Springfield .....	244.32	270.94	262.03	41.2	42.4	41.2	5.93	6.39	6.36
<b>VIRGINIA</b> <sup>10</sup> .....	214.24	228.97	234.32	40.5	40.1	40.4	5.29	5.71	5.80
Bristol .....	183.38	202.17	211.07	37.5	37.3	38.8	4.89	5.42	5.44
Lynchburg .....	226.68	236.12	233.16	41.9	40.5	40.2	5.41	5.83	5.80
Norfolk—Virginia Beach—Portsmouth .....	235.01	256.25	266.50	39.9	41.0	41.0	5.89	6.25	6.50
Northern Virginia <sup>11</sup> .....	247.66	259.07	259.62	40.8	38.9	39.1	6.07	6.66	6.64
Petersburg-Colonial Heights-Hopewell .....	249.85	297.43	286.24	39.1	40.8	39.7	6.39	7.29	7.21

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		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>VIRGINIA—Continued</b>									
Richmond .....	\$272.16	\$273.23	\$277.55	42.0	40.3	40.4	\$6.48	\$6.78	\$6.87
Roanoke .....	191.50	218.29	221.24	40.4	40.5	41.2	4.74	5.35	5.37
<b>WASHINGTON</b>	303.81	330.05	(*)	39.0	38.2	(*)	7.79	8.64	(*)
Seattle—Everett .....	312.45	334.31	(*)	39.5	39.1	(*)	7.91	8.55	(*)
Spokane .....	267.53	292.97	(*)	39.4	37.9	(*)	6.79	7.73	(*)
Tacoma .....	307.69	337.74	(*)	39.6	39.0	(*)	7.77	8.66	(*)
<b>WEST VIRGINIA</b>	281.99	295.18	295.50	40.4	39.2	39.4	6.98	7.53	7.50
Charleston .....	317.86	339.83	341.13	42.1	41.8	41.5	7.55	8.13	8.22
Huntington—Ashland .....	303.20	331.96	334.11	40.0	39.1	39.4	7.58	8.49	8.48
Parkersburg—Marietta .....	300.96	316.47	324.43	41.8	41.1	41.7	7.20	7.70	7.78
Wheeling .....	299.80	302.23	308.51	40.9	39.2	39.3	7.33	7.71	7.85
<b>WISCONSIN</b>	285.79	306.64	305.39	41.1	40.9	40.5	6.95	7.50	7.55
Appleton—Oshkosh .....	277.44	300.48	298.22	42.0	41.5	40.9	6.61	7.24	7.29
Eau Claire .....	264.07	315.75	303.81	39.4	42.2	40.5	6.71	7.48	7.50
Green Bay .....	295.22	315.36	312.58	42.7	42.1	41.8	6.91	7.49	7.48
Kenosha .....	325.83	357.76	353.58	40.2	40.2	39.7	8.10	8.90	8.91
La Crosse .....	225.70	255.34	258.08	40.1	39.8	40.3	5.62	6.42	6.41
Madison .....	275.24	298.04	315.75	39.4	39.3	39.8	6.98	7.59	7.94
Milwaukee .....	315.13	335.96	333.25	41.4	41.0	40.6	7.60	8.19	8.21
Racine .....	297.48	337.89	333.14	40.6	42.6	41.7	7.33	7.93	7.99
<b>WYOMING</b>	232.56	247.88	259.67	38.0	37.5	38.3	6.12	6.61	6.78
Casper .....	278.40	322.10	321.64	38.4	38.3	38.2	7.25	8.41	8.42
Cheyenne .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

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

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

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

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

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

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

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

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

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

<sup>10</sup> Revised to December 1978 benchmark; not strictly comparable with previously published data.

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

p=preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

# ESTABLISHMENT DATA LABOR TURNOVER

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

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.3	4.6	3.9	3.1	2.4
1978	4.1	3.8	3.2	3.8	4.0	4.7	4.9	4.4	5.4	4.9	4.3	3.3	2.4
1979	-	4.0	3.4	3.8	3.9	4.7	4.8	4.3	4.9	4.4	4.1	P2.9	
New hires													
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	3.0	2.2	1.6
1978	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.2	3.9	3.5	2.6	1.7
1979	-	2.8	2.5	2.8	2.9	3.6	3.8	3.1	3.7	3.4	3.1	P2.1	
Recalls													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.9	1.1	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	.9	1.0	.8	.6	.6	.6
1978	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.7	.6	.5	.5
1979	-	.9	.7	.7	.7	.8	.7	.9	.9	.8	.7	P.6	
Total separations													
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.9	3.8	3.4	3.4
1978	3.9	3.6	3.1	3.5	3.6	3.7	3.8	4.1	5.3	4.8	4.1	3.5	3.4
1979	-	3.8	3.2	3.6	3.6	3.8	3.9	4.3	5.7	4.7	4.2	P3.8	
Quits													
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.5	3.1	2.3	1.7	1.3
1979	-	1.8	1.6	1.9	2.0	2.1	2.1	2.0	3.3	2.7	2.1	P1.5	
Layoffs													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	1.1	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1	1.1	1.5
1978	.9	1.2	.9	.9	.8	.7	.7	1.0	.8	.8	.9	1.0	1.4
1979	-	1.1	.8	.8	.9	.7	.8	1.4	1.3	1.1	1.2	P1.5	

p=preliminary.

# ESTABLISHMENT DATA LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>
-	<b>MANUFACTURING</b> .....	4.1	2.9	3.1	2.1	0.7	0.6	4.2	3.8	2.1	1.5	1.2	1.5
24, 25, 32-39	<b>DURABLE GOODS</b> .....	3.7	2.6	2.8	1.9	.6	.5	3.6	3.5	1.7	1.3	1.0	1.4
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	4.7	3.4	3.6	2.5	.8	.7	5.0	4.2	2.7	1.9	1.5	1.6
	<b>DURABLE GOODS</b>												
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	5.1	3.2	4.4	2.5	.5	.5	6.4	6.5	3.5	2.4	1.8	3.0
242	Sawmills and planing mills .....	4.0	-	3.5	-	.4	-	4.6	-	2.8	-	.8	-
2421	Sawmills and planing mills, general .....	3.5	-	3.0	-	.3	-	4.1	-	2.6	-	.7	-
243	Millwork, plywood, and structural members .....	4.7	-	3.8	-	.7	-	6.4	-	3.1	-	2.0	-
2431	Millwork .....	4.3	-	3.4	-	.8	-	7.0	-	3.0	-	3.0	-
244	Wooden containers .....	8.0	-	7.1	-	.6	-	8.6	-	6.1	-	1.3	-
245	Wood buildings and mobile homes .....	8.9	-	8.3	-	.5	-	13.3	-	6.8	-	4.5	-
2451	Mobile homes .....	10.3	-	9.6	-	.6	-	14.1	-	7.8	-	4.1	-
249	Miscellaneous wood products .....	5.1	-	4.5	-	.3	-	5.7	-	3.0	-	1.5	-
25	<b>FURNITURE AND FIXTURES</b> .....	5.5	4.0	4.8	3.3	.5	.6	5.2	4.6	3.2	2.4	.7	1.0
251	Household furniture .....	6.0	-	5.3	-	.5	-	5.6	-	3.7	-	.5	-
2511	Wood household furniture .....	6.0	-	5.6	-	.1	-	5.6	-	4.0	-	.2	-
2512	Upholstered household furniture .....	5.0	-	4.4	-	.4	-	5.0	-	3.3	-	.5	-
2515	Mattresses and bedsprings .....	6.3	-	6.0	-	.3	-	6.6	-	4.2	-	.7	-
252	Office furniture .....	3.6	-	3.1	-	.4	-	2.9	-	1.8	-	.3	-
254	Partitions and fixtures .....	5.5	-	5.0	-	.5	-	5.6	-	2.7	-	1.5	-
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	3.5	2.7	2.8	1.9	.5	.6	4.2	4.4	1.9	1.5	1.4	2.2
322	Glass and glassware, pressed or blown .....	2.3	-	1.2	-	.7	-	3.6	-	1.0	-	1.7	-
3221	Glass containers .....	2.1	-	1.2	-	.7	-	3.5	-	1.2	-	1.5	-
3229	Pressed and blown glass, nec .....	2.5	-	1.3	-	.6	-	3.8	-	.7	-	1.8	-
323	Products of purchased glass .....	4.1	-	2.7	-	1.3	-	4.9	-	2.2	-	1.6	-
324	Cement, hydraulic .....	1.4	-	1.1	-	.2	-	1.2	-	.4	-	.3	-
325	Structural clay products .....	4.7	-	4.1	-	.5	-	5.0	-	3.4	-	.6	-
326	Pottery and related products .....	4.6	-	3.9	-	.6	-	4.0	-	2.3	-	.4	-
327	Concrete, gypsum, and plaster products .....	4.6	-	4.1	-	.4	-	5.6	-	2.9	-	1.8	-
329	Misc. nonmetallic mineral products .....	2.7	-	2.3	-	.3	-	3.2	-	1.2	-	1.2	-
33	<b>PRIMARY METAL INDUSTRIES</b> .....	2.6	2.0	1.5	1.1	.7	.7	3.5	3.2	.9	.7	1.7	1.9
331	Blast furnace and basic steel products .....	1.7	-	.5	-	.9	-	3.7	-	.4	-	2.5	-
3312	Blast furnaces and steel mills .....	1.6	-	.3	-	1.0	-	3.7	-	.3	-	2.6	-
332	Iron and steel foundries .....	3.6	-	2.6	-	.6	-	4.6	-	1.7	-	1.8	-
3321	Gray iron foundries .....	3.7	-	2.4	-	.7	-	5.2	-	1.8	-	2.4	-
3325	Steel foundries, nec .....	3.2	-	2.8	-	.3	-	3.3	-	1.5	-	.5	-
333	Primary nonferrous metals .....	1.2	-	.9	-	.1	-	.9	-	.4	-	.2	-
335	Nonferrous rolling and drawing .....	2.5	-	1.5	-	.3	-	2.0	-	.8	-	.6	-
3351	Copper rolling and drawing .....	2.2	-	1.6	-	.6	-	2.1	-	.9	-	.5	-
3353	Aluminum sheet, plate, and foil .....	.8	-	.4	-	.4	-	2.0	-	.2	-	1.5	-
3357	Nonferrous wire drawing and insulating .....	3.0	-	1.4	-	.1	-	1.4	-	.7	-	.2	-
336	Nonferrous foundries .....	5.6	-	4.0	-	1.3	-	5.5	-	2.4	-	1.9	-
3361	Aluminum foundries .....	5.7	-	4.0	-	1.3	-	5.4	-	2.4	-	2.0	-
34	<b>FABRICATED METAL PRODUCTS</b> .....	4.4	2.9	3.5	2.3	.7	.5	4.4	3.9	2.1	1.5	1.4	1.6
341	Metal cans and shipping containers .....	3.5	-	1.5	-	1.4	-	6.9	-	1.0	-	5.1	-
3411	Metal cans .....	3.5	-	1.2	-	1.7	-	7.4	-	.7	-	5.9	-
342	Cutlery, hand tools, and hardware .....	4.2	-	3.0	-	1.2	-	3.7	-	1.8	-	1.1	-
3423, 5	Hand and edge tools, and hand saws and blades .....	3.6	-	3.3	-	.2	-	3.8	-	1.9	-	.9	-
3429	Hardware, nec .....	4.7	-	2.7	-	2.0	-	3.7	-	1.7	-	1.3	-
343	Plumbing and heating, except electric .....	4.6	-	4.1	-	.4	-	3.6	-	2.1	-	.4	-
344	Fabricated structural metal products .....	4.9	-	4.4	-	.4	-	5.0	-	2.7	-	1.3	-
3441	Fabricated structural metal .....	4.9	-	4.3	-	.6	-	5.2	-	2.5	-	1.3	-
3442	Metal doors, sash, and trim .....	6.6	-	6.1	-	.4	-	7.2	-	4.4	-	1.6	-
3443	Fabricated plate work (boiler shops) .....	3.0	-	2.5	-	.3	-	2.9	-	1.5	-	.6	-
3444	Sheet metal work .....	5.7	-	5.1	-	.6	-	5.1	-	2.7	-	1.3	-
345	Screw machine products, bolts, etc. ....	4.1	-	3.6	-	.5	-	3.9	-	2.2	-	.6	-
3451	Screw machine products .....	4.3	-	4.0	-	.3	-	4.3	-	2.8	-	.4	-
3452	Bolts, nuts, rivets, and washers .....	3.9	-	3.1	-	.6	-	3.4	-	1.7	-	.8	-
346	Metal forgings and stampings .....	3.9	-	2.1	-	1.4	-	4.2	-	1.3	-	2.0	-
3462	Iron and steel forgings .....	3.7	-	1.9	-	1.5	-	2.6	-	.8	-	1.0	-
3465	Automotive stampings .....	4.1	-	1.0	-	2.4	-	5.5	-	.8	-	3.9	-
3469	Metal stampings, nec .....	3.7	-	3.1	-	.5	-	3.8	-	1.9	-	1.0	-
347	Metal services, nec .....	6.4	-	5.7	-	.5	-	5.7	-	3.5	-	.9	-
348	Ordinance and accessories, nec .....	2.6	-	1.9	-	.4	-	1.8	-	.8	-	.5	-
349	Misc. fabricated metal products .....	3.8	-	3.3	-	.3	-	3.7	-	2.0	-	.8	-
3494	Valves and pipe fittings .....	2.8	-	2.4	-	.2	-	2.5	-	1.2	-	.6	-
3496	Misc. fabricated wire products .....	6.1	-	5.5	-	.4	-	5.6	-	3.4	-	1.0	-

See footnotes at end of table.



# ESTABLISHMENT DATA LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	3.0	2.3	2.5	1.8	0.3	0.2	2.7	2.4	1.3	1.0	0.5	0.6
351	Engines and turbines	2.8	—	1.6	—	.1	—	3.0	—	.7	—	.8	—
3511	Turbines and turbine generator sets	2.0	—	.8	—	.1	—	2.5	—	.4	—	.7	—
3519	Internal combustion engines, nec	3.2	—	1.9	—	.1	—	3.2	—	.9	—	.8	—
352	Farm and garden machinery	4.2	—	3.4	—	.4	—	3.5	—	1.8	—	.6	—
3523	Farm machinery and equipment	3.9	—	3.0	—	.4	—	3.3	—	1.6	—	.6	—
353	Construction and related machinery	2.5	—	2.1	—	.2	—	2.4	—	1.1	—	.6	—
3531	Construction machinery	1.7	—	1.1	—	.3	—	2.3	—	.7	—	1.1	—
3533	Oil field machinery	3.4	—	3.3	—	( <sup>1</sup> )	—	2.5	—	1.6	—	.1	—
354	Metalworking machinery	3.0	—	2.6	—	.3	—	2.6	—	1.3	—	.5	—
3541	Machine tools, metal cutting types	2.3	—	2.2	—	.1	—	1.6	—	.9	—	.1	—
3544	Special dies, tools, jigs, and fixtures	3.3	—	2.7	—	.4	—	3.5	—	1.6	—	.9	—
3545	Machine tool accessories	3.0	—	2.7	—	.2	—	2.4	—	1.4	—	.2	—
355	Special industry machinery	2.6	—	2.3	—	.2	—	2.0	—	1.1	—	.3	—
3551	Food products machinery	2.5	—	2.2	—	.2	—	2.1	—	1.2	—	.4	—
3552	Textile machinery	3.4	—	2.9	—	.3	—	3.0	—	1.4	—	.7	—
356	General industrial machinery	2.7	—	2.1	—	.3	—	2.4	—	1.1	—	.6	—
3561	Pumps and pumping equipment	2.2	—	1.9	—	.2	—	2.2	—	1.2	—	.4	—
3562	Ball and roller bearings	2.2	—	1.5	—	.1	—	2.4	—	1.1	—	.8	—
3564	Blowers and fans	3.8	—	3.3	—	.4	—	3.0	—	1.4	—	.7	—
357	Office and computing machines	2.8	—	2.4	—	.1	—	2.4	—	1.5	—	.2	—
3573	Electronic computing equipment	2.9	—	2.5	—	.1	—	2.4	—	1.4	—	.1	—
358	Refrigeration and service machinery	3.2	—	2.2	—	.5	—	3.3	—	1.3	—	.8	—
3585	Refrigeration and heating equipment	3.2	—	1.9	—	.6	—	3.5	—	1.2	—	1.0	—
359	Misc. machinery, except electrical	4.0	—	3.4	—	.5	—	3.5	—	2.0	—	.7	—
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	3.3	2.5	2.6	1.9	.3	.3	3.1	2.8	1.6	1.3	.5	.7
361	Electric distributing equipment	3.2	—	2.3	—	.3	—	3.2	—	1.7	—	.4	—
3612	Transformers	3.4	—	2.3	—	.2	—	3.6	—	1.7	—	.6	—
3613	Switchgear and switchboard apparatus	3.0	—	2.3	—	.3	—	2.9	—	1.6	—	.3	—
362	Electrical industrial apparatus	3.0	—	1.8	—	.7	—	2.8	—	1.2	—	.7	—
3621	Motors and generators	3.4	—	1.6	—	1.1	—	3.1	—	1.2	—	1.1	—
3622	Industrial controls	2.6	—	2.0	—	.2	—	2.5	—	1.3	—	.3	—
363	Household appliances	3.9	—	2.5	—	.6	—	3.7	—	1.8	—	.6	—
3632	Household refrigerators and freezers	3.3	—	.8	—	.8	—	4.0	—	.9	—	1.3	—
3633	Household laundry equipment	1.7	—	.7	—	.3	—	2.8	—	.7	—	1.1	—
3634	Electric housewares and fans	5.4	—	4.4	—	.6	—	4.4	—	3.1	—	.1	—
364	Electric lighting and wiring equipment	3.3	—	2.6	—	.3	—	3.4	—	1.6	—	.7	—
3641	Electric lamps	2.3	—	1.6	—	.1	—	2.0	—	.7	—	.4	—
3643	Current-carrying wiring devices	3.3	—	2.7	—	.4	—	2.6	—	1.5	—	.4	—
365	Radio and TV receiving equipment	2.9	—	1.7	—	.3	—	4.3	—	1.5	—	1.4	—
3651	Radio and TV receiving sets	2.6	—	1.2	—	.3	—	4.0	—	1.3	—	1.3	—
366	Communication equipment	2.5	—	2.0	—	.2	—	1.9	—	1.1	—	.3	—
3661	Telephone and telegraph apparatus	1.5	—	1.2	—	.1	—	1.0	—	.6	—	( <sup>1</sup> )	—
3662	Radio and TV communication equipment	2.9	—	2.3	—	.2	—	2.4	—	1.3	—	.4	—
367	Electronic components and accessories	4.6	—	4.0	—	.3	—	3.6	—	2.4	—	.3	—
3671-3	Electronic tubes	3.3	—	2.7	—	.2	—	2.1	—	1.3	—	.2	—
3674	Semiconductors and related devices	3.8	—	3.3	—	.2	—	2.7	—	1.7	—	.2	—
3679	Electronic components, nec	5.2	—	4.7	—	.3	—	4.2	—	3.0	—	.2	—
369	Misc. electrical equipment and supplies	2.6	—	2.0	—	.3	—	3.2	—	1.2	—	1.2	—
3694	Engine electrical equipment	1.9	—	1.1	—	.5	—	3.0	—	1.7	—	1.6	—
37	<b>TRANSPORTATION EQUIPMENT</b>	3.5	—	2.1	—	1.1	—	2.9	—	1.1	—	.9	—
371	Motor vehicles and equipment	3.5	—	1.4	—	1.5	—	3.1	—	.9	—	1.2	—
3711	Motor vehicles and car bodies	4.3	—	1.6	—	2.0	—	2.8	—	.7	—	1.0	—
3713	Truck and bus bodies	2.9	—	2.6	—	.3	—	3.4	—	2.0	—	.5	—
3714	Motor vehicle parts and accessories	2.7	—	1.0	—	1.2	—	3.1	—	.8	—	1.5	—
3715	Truck trailers	3.7	—	2.8	—	.7	—	4.7	—	2.2	—	1.1	—
372	Aircraft and parts	2.2	—	1.9	—	.1	—	1.4	—	.7	—	.1	—
3721	Aircraft	1.5	—	1.2	—	.1	—	.8	—	.5	—	( <sup>1</sup> )	—
3724	Aircraft engines and engine parts	2.2	—	1.7	—	.1	—	1.3	—	.6	—	.1	—
3728	Aircraft equipment, nec	4.3	—	3.9	—	.2	—	2.9	—	1.7	—	.3	—
373	Ship and boat building and repairing	7.1	—	4.8	—	2.2	—	7.0	—	2.9	—	2.5	—
3731	Ship building and repairing	7.4	—	4.8	—	2.5	—	6.6	—	2.7	—	2.2	—
3732	Boat building and repairing	6.1	—	4.7	—	1.2	—	8.2	—	3.8	—	3.3	—
374	Railroad equipment	3.4	—	1.6	—	1.0	—	3.0	—	.7	—	1.0	—
376	Guided missiles, space vehicles, parts	2.4	—	1.9	—	.2	—	1.4	—	.7	—	.3	—
3761	Guided missiles and space vehicles	2.3	—	1.8	—	.2	—	1.1	—	.5	—	.2	—
379	Miscellaneous transportation equipment	7.7	—	5.7	—	1.6	—	5.8	—	3.5	—	1.0	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	3.1	2.5	2.6	2.0	.2	.2	2.7	2.3	1.6	1.1	.5	.5
381	Engineering and scientific instruments	2.9	—	2.7	—	.1	—	1.9	—	1.3	—	.2	—
382	Measuring and controlling devices	3.3	—	2.6	—	.3	—	2.4	—	1.5	—	.3	—
3822	Environmental controls	3.7	—	2.3	—	.3	—	2.5	—	1.3	—	.4	—
3823	Process control instruments	3.6	—	2.7	—	.8	—	2.1	—	1.3	—	.2	—
3825	Instruments to measure electricity	3.0	—	2.4	—	.1	—	2.3	—	1.6	—	.1	—

See footnotes at end of table.

# ESTABLISHMENT DATA LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>	Oct. 1979	Nov. 1979 <sup>P</sup>
	<b>INSTRUMENTS AND RELATED PRODUCTS—Cont'd</b>												
383	Optical instruments and lenses .....	3.3	—	3.1	—	( <sup>1</sup> )	—	2.3	—	1.8	—	0.1	—
384	Medical instruments and supplies .....	4.0	—	3.7	—	.1	—	3.1	—	2.0	—	.4	—
3841	Surgical and medical instruments .....	4.9	—	4.6	—	.1	—	3.6	—	2.6	—	.2	—
3842	Surgical appliances and supplies .....	3.6	—	3.3	—	.2	—	2.9	—	1.6	—	.5	—
385	Ophthalmic goods .....	4.6	—	3.5	—	.5	—	4.1	—	2.5	—	.9	—
386	Photographic equipment and supplies .....	1.2	—	1.1	—	( <sup>1</sup> )	—	1.7	—	1.0	—	.2	—
387	Watches, clocks, and watchcases .....	3.3	—	2.2	—	.7	—	7.3	—	1.8	—	3.9	—
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	6.2	3.4	5.2	2.7	.7	0.6	6.2	6.5	3.4	2.5	1.5	3.1
391	Jewelry, silverware, and plated ware .....	5.9	—	4.7	—	.9	—	4.5	—	2.6	—	.9	—
393	Musical instruments .....	4.6	—	3.5	—	.6	—	3.9	—	2.5	—	.3	—
394	Toys and sporting goods .....	9.4	—	8.2	—	.9	—	9.2	—	5.0	—	2.0	—
3942,4	Dolls, games, toys, and children's vehicles .....	12.0	—	11.4	—	.4	—	13.0	—	7.1	—	3.1	—
3949	Sporting and athletic goods, nec .....	6.3	—	4.5	—	1.4	—	4.9	—	2.6	—	.8	—
395	Pens, pencils, office and art supplies .....	3.8	—	3.4	—	.1	—	4.0	—	2.3	—	.5	—
396	Costume jewelry and notions .....	6.2	—	5.1	—	1.0	—	7.7	—	4.6	—	1.7	—
399	Miscellaneous manufactures .....	4.3	—	3.6	—	.6	—	4.6	—	2.2	—	1.5	—
	<b>NONDURABLE GOODS</b>												
20	<b>FOOD AND KINDRED PRODUCTS</b>	6.5	4.6	4.9	3.2	1.3	1.2	8.3	6.0	4.0	2.5	3.3	2.7
201	Meat products .....	7.6	—	6.5	—	.7	—	7.1	—	5.3	—	.8	—
2011	Meat packing plants .....	4.9	—	3.7	—	.8	—	4.1	—	2.1	—	1.1	—
2013	Sausages and other prepared meats .....	4.4	—	3.2	—	1.0	—	4.6	—	2.4	—	1.1	—
2016	Poultry dressing plants .....	12.3	—	11.0	—	.6	—	12.2	—	10.8	—	.2	—
202	Dairy products .....	3.2	—	2.7	—	.4	—	4.1	—	2.3	—	1.1	—
203	Preserved fruits and vegetables .....	10.2	—	7.1	—	2.9	—	23.4	—	8.0	—	13.9	—
204	Grain mill products .....	4.5	—	3.3	—	1.0	—	5.0	—	2.4	—	1.8	—
205	Bakery products .....	3.1	—	2.7	—	.4	—	3.5	—	2.0	—	.9	—
2051	Bread, cake, and related products .....	3.0	—	2.7	—	.2	—	3.2	—	2.0	—	.6	—
2052	Cookies and crackers .....	3.7	—	2.5	—	1.0	—	4.7	—	1.7	—	2.3	—
206	Sugar and confectionery products .....	11.3	—	6.7	—	4.3	—	6.7	—	2.5	—	3.2	—
207	Fats and oils .....	8.7	—	5.7	—	2.8	—	3.4	—	1.9	—	.9	—
208	Beverages .....	3.7	—	2.9	—	.7	—	4.4	—	2.1	—	1.4	—
2082	Malt beverages .....	2.8	—	.9	—	1.6	—	4.4	—	.3	—	3.2	—
2086	Bottled and canned soft drinks .....	3.8	—	3.6	—	.2	—	4.9	—	3.1	—	.8	—
209	Misc. foods and kindred products .....	7.7	—	6.2	—	1.3	—	8.3	—	4.9	—	2.5	—
21	<b>TOBACCO MANUFACTURES</b>	2.9	—	1.6	—	.7	—	4.7	—	1.2	—	2.6	—
211	Cigarettes .....	1.6	—	.7	—	.4	—	2.1	—	.1	—	1.0	—
22	<b>TEXTILE MILL PRODUCTS</b>	5.1	3.7	4.1	3.0	.6	.5	4.9	4.1	3.1	2.4	.7	.8
221	Weaving mills, cotton .....	4.6	—	3.7	—	.2	—	4.7	—	2.9	—	.5	—
222	Weaving mills, synthetics .....	4.5	—	3.8	—	.3	—	4.5	—	3.0	—	.3	—
223	Weaving and finishing mills, wool .....	5.5	—	4.3	—	.9	—	6.0	—	3.6	—	1.5	—
224	Narrow fabric mills .....	4.6	—	3.3	—	1.1	—	4.1	—	2.9	—	.5	—
225	Knitting mills .....	5.8	—	4.7	—	.8	—	5.4	—	3.3	—	1.2	—
2251	Women's hosiery, except socks .....	6.5	—	5.7	—	.6	—	5.0	—	3.9	—	.3	—
2252	Hosiery, nec .....	6.7	—	6.1	—	.4	—	5.4	—	4.2	—	.4	—
2253	Knit outerwear mills .....	6.0	—	4.7	—	.9	—	5.4	—	3.4	—	1.0	—
2254	Knit underwear mills .....	4.1	—	3.6	—	.4	—	4.1	—	2.6	—	.9	—
2257	Circular knit fabric mills .....	5.8	—	4.6	—	1.0	—	6.3	—	3.0	—	2.0	—
226	Textile finishing, except wool .....	4.4	—	3.4	—	.7	—	3.8	—	2.4	—	.5	—
227	Floor covering mills .....	5.3	—	4.2	—	.8	—	4.2	—	2.9	—	.5	—
228	Yarn and thread mills .....	6.1	—	4.9	—	.9	—	6.2	—	4.3	—	.5	—
229	Miscellaneous textile goods .....	3.6	—	2.7	—	.6	—	4.2	—	1.9	—	1.1	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	6.1	4.5	4.5	3.0	1.5	1.2	6.1	5.7	3.4	2.6	1.8	2.4
231	Men's and boys' suits and coats .....	3.2	—	2.0	—	.8	—	6.4	—	1.8	—	4.0	—
232	Men's and boys' furnishings .....	6.1	—	5.0	—	.9	—	6.2	—	4.4	—	.8	—
2321	Men's and boys' shirts and nightwear .....	5.3	—	4.2	—	.9	—	5.5	—	4.1	—	.6	—
2327	Men's and boys' separate trousers .....	5.7	—	5.0	—	.5	—	5.2	—	4.3	—	.4	—
2328	Men's and boys' work clothing .....	7.4	—	6.4	—	.9	—	7.4	—	5.4	—	.3	—
233	Women's and misses' outerwear .....	6.4	—	3.9	—	2.4	—	5.8	—	2.7	—	2.4	—
234	Women's and children's undergarments .....	5.7	—	4.5	—	1.0	—	5.8	—	3.5	—	1.3	—
2341	Women's and children's underwear .....	5.7	—	4.5	—	1.0	—	6.2	—	3.9	—	1.4	—
2342	Brassieres and allied garments .....	5.5	—	4.7	—	.7	—	4.3	—	2.0	—	.9	—
236	Children's outerwear .....	5.5	—	4.3	—	1.1	—	5.4	—	3.2	—	1.5	—
238	Misc. apparel and accessories .....	6.2	—	5.0	—	1.1	—	6.4	—	3.5	—	1.9	—
239	Misc. fabricated textile products .....	7.0	—	5.6	—	1.2	—	6.7	—	3.8	—	1.8	—
26	<b>PAPER AND ALLIED PRODUCTS</b>	2.9	1.9	2.2	1.4	.4	.4	2.8	2.6	1.3	.9	.7	1.0
261,2,6	Paper and pulp mills .....	1.4	—	1.1	—	.2	—	1.3	—	.5	—	.3	—
262	Paper mills, except building paper .....	1.3	—	1.0	—	.2	—	1.3	—	.5	—	.3	—

See footnotes at end of table.

# ESTABLISHMENT DATA

## LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>	Oct. 1979	Nov. 1979 <sup>p</sup>
	<b>PAPER AND ALLIED PRODUCTS—Continued</b>												
263	Paperboard mills	1.9	—	1.1	—	0.1	—	1.6	—	0.8	—	0.2	—
264	Misc. converted paper products	3.7	—	2.9	—	.6	—	3.4	—	1.7	—	.7	—
265	Paperboard containers and boxes	3.7	—	2.9	—	.6	—	3.9	—	1.6	—	1.3	—
2651	Folding paperboard boxes	3.3	—	2.7	—	.6	—	3.9	—	1.4	—	1.7	—
2653	Corrugated and solid fiber boxes	3.0	—	2.6	—	.3	—	3.2	—	1.6	—	.7	—
27	<b>PRINTING AND PUBLISHING</b>	3.8	3.1	3.4	2.6	.4	0.5	3.4	2.9	2.2	1.8	.5	0.5
271	Newspapers	4.1	—	3.8	—	.1	—	3.5	—	2.9	—	.1	—
272	Periodicals	4.1	—	3.9	—	.2	—	2.9	—	2.2	—	.1	—
273	Books	3.8	—	2.7	—	.9	—	2.7	—	1.6	—	.6	—
274	Miscellaneous publishing	3.9	—	3.3	—	.5	—	3.9	—	2.2	—	.9	—
275	Commercial printing	3.4	—	2.9	—	.4	—	3.2	—	1.7	—	.8	—
2751	Commercial printing, letterpress	3.1	—	2.6	—	.5	—	3.2	—	1.8	—	.7	—
2752	Commercial printing, lithographic	3.7	—	3.1	—	.5	—	3.2	—	1.6	—	.8	—
278	Blankbooks and bookbinding	4.6	—	4.2	—	.3	—	4.7	—	2.7	—	1.3	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	1.7	1.4	1.4	1.0	.2	.2	1.7	1.4	.8	.6	.4	.4
281	Industrial inorganic chemicals	1.4	—	1.1	—	.1	—	1.0	—	.5	—	.1	—
2819	Industrial inorganic chemicals, nec	1.3	—	1.1	—	.1	—	.8	—	.4	—	.1	—
282	Plastics materials and synthetics	1.1	—	.8	—	.1	—	1.2	—	.6	—	.3	—
2821	Plastics materials and resins	1.3	—	1.2	—	.1	—	1.6	—	.7	—	.4	—
2824	Organic fibers, noncellulosic	.6	—	.4	—	.1	—	.9	—	.4	—	.2	—
283	Drugs	1.7	—	1.4	—	.2	—	1.4	—	.7	—	.3	—
2834	Pharmaceutical preparations	1.8	—	1.6	—	.2	—	1.5	—	.8	—	.3	—
284	Soap, cleaners, and toilet goods	2.3	—	1.9	—	.3	—	3.2	—	1.3	—	1.1	—
2841	Soap and other detergents	.9	—	.7	—	.1	—	2.0	—	.5	—	1.1	—
2844	Toilet preparations	3.2	—	2.5	—	.5	—	4.2	—	1.6	—	1.7	—
285	Paints and allied products	2.1	—	1.8	—	.2	—	2.7	—	1.4	—	.7	—
286	Industrial organic chemicals	1.3	—	1.0	—	.1	—	1.0	—	.5	—	.1	—
287	Agricultural chemicals	2.9	—	2.4	—	.5	—	2.2	—	.9	—	.4	—
289	Miscellaneous chemical products	2.5	—	1.8	—	.6	—	2.0	—	1.0	—	.5	—
29	<b>PETROLEUM AND COAL PRODUCTS</b>	2.3	1.5	2.1	1.3	.1	.1	2.0	1.9	.8	.7	.6	.7
291	Petroleum refining	1.8	—	1.6	—	.1	—	1.3	—	.4	—	.5	—
295	Paving and roofing materials	4.5	—	4.3	—	.1	—	5.2	—	2.7	—	1.4	—
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	4.9	3.5	3.9	2.5	.7	.6	5.3	5.1	2.8	2.1	1.2	2.1
301	Tires and inner tubes	1.5	—	.7	—	.4	—	2.2	—	.5	—	.9	—
302	Rubber and plastics footwear	10.2	—	7.8	—	1.5	—	9.2	—	6.0	—	.5	—
303,4	Reclaimed rubber, and rubber and plastics hose and belting	2.2	—	1.7	—	.4	—	2.3	—	1.2	—	.4	—
306	Fabricated rubber products, nec	3.4	—	2.0	—	.9	—	4.5	—	1.7	—	1.7	—
307	Miscellaneous plastics products	6.0	—	5.1	—	.6	—	6.1	—	3.6	—	1.2	—
31	<b>LEATHER AND LEATHER PRODUCTS</b>	7.2	5.1	5.6	3.7	1.2	1.0	7.2	6.7	4.5	3.0	1.6	2.7
311	Leather tanning and finishing	6.7	—	4.2	—	2.3	—	6.4	—	3.2	—	2.3	—
314	Footwear, except rubber	7.3	—	5.5	—	1.3	—	7.4	—	4.8	—	1.7	—
3143	Men's footwear, except athletic	6.0	—	5.2	—	.5	—	6.7	—	4.8	—	1.0	—
3144	Women's footwear, except athletic	7.7	—	5.0	—	1.8	—	7.8	—	4.5	—	2.3	—
	<b>NONMANUFACTURING:</b>												
—	<b>MINING</b>	4.7	4.3	3.8	3.3	.5	.8	4.5	4.3	2.8	2.8	.9	.8
10	<b>METAL MINING</b>	3.2	2.6	2.6	2.0	.3	.4	3.1	2.1	1.3	.8	1.1	.6
101	Iron ores	1.7	—	.8	—	.6	—	1.8	—	.3	—	.8	—
102	Copper ores	2.3	—	2.0	—	.2	—	1.1	—	.6	—	(1)	—
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b>	1.3	1.4	.8	.7	.3	.5	2.7	1.3	.7	.7	1.6	.3
13	<b>OIL AND GAS EXTRACTION</b>	7.2	6.6	6.0	5.4	.8	1.0	6.0	6.1	4.6	4.6	.3	.5
131, 2	Crude petroleum, natural gas, and natural gas liquids	2.4	—	1.9	—	.3	—	1.6	—	.8	—	.1	—
138	Oil and gas field services	10.5	—	8.9	—	1.1	—	9.1	—	7.2	—	.5	—
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b>	3.0	2.8	2.6	1.8	.2	.5	3.9	5.4	1.7	1.4	1.2	3.3
142	Crushed and broken stone	2.3	—	2.0	—	.2	—	3.6	—	1.7	—	1.4	—
144	Sand and gravel	2.6	—	2.2	—	.2	—	5.7	—	1.9	—	1.9	—
—	<b>COMMUNICATION:</b>												
481	Telephone communication	.9	—	.7	—	(1)	—	.8	—	.4	—	.1	—

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

<sup>p</sup>preliminary.

# ESTABLISHMENT DATA

## SEASONALLY ADJUSTED LABOR TURNOVER

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

[Per 100 employees]

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

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	
	Sept. 1979	Oct. 1979 <sup>P</sup>	Sept. 1979	Oct. 1979 <sup>P</sup>	Sept. 1979	Oct. 1979 <sup>P</sup>	Sept. 1979	Oct. 1979 <sup>P</sup>	Sept. 1979	Oct. 1979 <sup>P</sup>	Sept. 1979	Oct. 1979 <sup>P</sup>
<b>ALABAMA:</b>												
Birmingham .....	2.7	2.6	2.0	1.5	0.4	0.8	4.7	3.6	1.5	1.0	2.3	1.6
Mobile .....	7.4	14.9	1.8	4.9	5.6	9.8	8.9	5.9	1.8	2.4	6.1	2.7
<b>ALASKA</b> .....	20.2	8.5	17.3	7.2	1.2	.8	31.1	13.2	8.9	4.3	18.8	6.6
<b>ARIZONA</b> .....	6.2	6.4	5.5	5.7	.5	.6	5.1	4.7	3.4	3.0	.4	.4
Phoenix .....	6.5	6.6	5.7	6.0	.6	.6	5.3	4.8	3.5	3.0	.4	.4
<b>ARKANSAS</b> .....	6.1	5.6	5.2	4.7	.5	.6	6.3	5.8	4.4	3.7	.9	1.0
Fort Smith .....	5.4	5.9	3.9	4.1	.5	.7	5.8	4.9	3.0	3.2	1.3	.2
Little Rock—North Little Rock .....	3.9	4.8	3.5	4.0	.2	.5	4.2	5.3	2.6	2.6	.5	1.4
Pine Bluff .....	3.4	4.6	2.9	3.7	.4	.9	4.6	3.6	2.6	2.5	.8	.6
<b>COLORADO</b> .....	5.7	5.5	5.3	4.9	.2	.4	6.7	4.9	5.1	3.6	.6	.3
Denver—Boulder .....	5.0	5.0	4.7	4.6	.2	.3	5.6	4.7	3.8	3.5	.8	.3
<b>CONNECTICUT</b> .....	3.0	3.0	2.6	2.5	.2	.3	3.1	2.8	1.9	1.5	.4	.5
Hartford .....	3.6	2.8	3.1	2.5	.1	.2	2.8	2.1	2.0	1.3	.2	.3
<b>DELAWARE</b> .....	2.3	1.9	1.4	1.1	.5	.3	2.1	2.4	1.1	.8	.5	.8
Wilmington .....	1.9	1.7	1.1	.9	.5	.3	1.9	2.4	1.0	.6	.4	.9
<b>FLORIDA</b> .....	5.5	6.3	4.8	4.9	.5	1.2	5.4	5.4	3.6	3.2	.7	1.0
Fort Lauderdale—Hollywood .....	6.4	7.3	5.9	7.1	.2	.2	7.4	7.6	5.8	5.3	.4	1.2
Jacksonville .....	4.0	3.5	3.2	2.6	.7	.8	4.1	6.1	2.5	1.6	.6	3.7
Miami .....	6.1	6.7	5.7	5.8	.4	.9	5.6	5.7	3.7	3.6	1.0	1.0
Orlando .....	4.8	7.5	3.6	5.9	1.0	1.4	4.6	5.5	3.0	3.9	.6	.4
Pensacola .....	1.5	2.1	1.4	2.1	( <sup>1</sup> )	( <sup>1</sup> )	3.4	3.3	1.7	2.7	.8	( <sup>1</sup> )
Tampa—St. Petersburg .....	6.3	6.8	5.6	5.2	.6	1.2	5.8	5.6	4.0	3.5	.6	.5
West Palm Beach—Boca Raton .....	8.0	8.9	7.4	7.6	.4	1.2	9.9	6.6	7.4	5.5	( <sup>1</sup> )	( <sup>1</sup> )
<b>GEORGIA</b> .....	4.3	4.6	3.7	3.9	.3	.4	4.8	4.4	3.3	2.9	.5	.6
Atlanta <sup>2</sup> .....	3.9	4.3	3.4	3.7	.2	.4	4.1	3.7	2.4	2.0	.7	.9
<b>HAWAII</b> <sup>3</sup> .....	4.3	3.2	2.6	2.1	1.0	.9	3.2	3.1	1.6	1.1	.4	.8
<b>IDAHO</b> <sup>4</sup> .....	5.1	3.9	4.3	3.2	.3	.3	5.5	5.5	3.5	2.6	.6	1.5
<b>ILLINOIS:</b>												
Chicago SMSA .....	3.7	(*)	3.1	(*)	.3	(*)	3.9	(*)	2.4	(*)	.4	(*)
<b>INDIANA</b> <sup>5</sup> .....	3.3	2.7	1.7	1.6	1.1	.6	3.4	3.1	1.5	1.1	1.2	1.2
Indianapolis <sup>6</sup> .....	5.1	3.2	1.8	1.9	2.7	.6	2.8	2.8	1.3	.9	.6	.7
<b>IOWA</b> .....	3.4	3.2	2.9	2.5	.4	.3	3.6	3.9	2.3	1.9	.7	1.3
Cedar Rapids .....	3.8	3.8	3.2	2.4	( <sup>1</sup> )	.3	3.9	3.1	2.5	1.7	.3	.1
Des Moines .....	3.1	2.2	1.8	1.5	.9	.3	3.3	2.9	1.7	1.4	1.1	.6
<b>KANSAS</b> .....	7.2	6.6	4.6	4.4	2.4	2.0	7.3	4.8	3.5	3.2	2.8	.6
Topeka .....	2.1	3.5	1.8	2.2	.2	1.3	6.0	3.6	2.2	1.1	3.3	1.9
Wichita .....	6.2	5.8	5.6	5.0	.4	.4	4.5	4.4	3.2	3.1	.2	.1
<b>KENTUCKY</b> .....	3.8	3.8	2.5	2.5	.7	.8	5.4	3.8	2.1	1.8	2.0	1.0
Louisville .....	2.7	2.2	1.4	1.0	.3	.5	2.9	2.2	1.4	.8	.4	.4
<b>LOUISIANA:</b>												
New Orleans .....	5.1	4.7	4.2	4.2	.7	.4	4.9	5.4	2.8	2.7	1.0	1.3
<b>MAINE</b> .....	6.1	4.9	4.6	4.0	1.2	.7	7.8	5.9	4.3	3.2	2.4	1.9
Portland .....	5.5	4.1	4.9	3.5	.2	.4	7.2	5.3	4.6	3.0	1.5	1.6
<b>MARYLAND</b> .....	3.0	3.0	2.2	2.1	.6	.7	3.2	3.3	1.6	1.2	.8	1.2
Baltimore .....	2.7	2.7	1.8	1.8	.7	.7	2.8	2.8	1.3	1.0	.7	1.0
<b>MASSACHUSETTS</b> .....	4.6	(*)	3.8	(*)	.5	(*)	4.4	(*)	2.9	(*)	.7	(*)
Boston .....	3.3	(*)	2.8	(*)	.3	(*)	3.6	(*)	2.4	(*)	.5	(*)
<b>MICHIGAN</b> .....	3.5	2.8	1.6	1.1	1.4	1.2	5.1	3.6	1.4	.9	2.8	1.8
Detroit .....	3.9	1.9	1.3	.8	1.9	.9	4.3	2.8	1.3	.7	2.0	1.6
Flint .....	2.9	2.2	2.3	.8	.3	1.1	3.4	2.6	.5	.4	2.1	1.0
Grand Rapids .....	3.0	3.3	2.0	1.7	.6	.5	4.0	2.7	1.7	1.2	.9	.8
Lansing—East Lansing .....	1.6	.7	.6	.3	.8	.4	1.6	1.0	.5	.2	.4	.6

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA LABOR TURNOVER

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Sept. 1979	Oct. 1979P	Sept. 1979	Oct. 1979P	Sept. 1979	Oct. 1979P	Sept. 1979	Oct. 1979P	Sept. 1979	Oct. 1979P	Sept. 1979	Oct. 1979P
<b>MINNESOTA</b> .....	5.2	(*)	4.6	(*)	.4	(*)	5.4	(*)	4.1	(*)	.5	(*)
Minneapolis—St. Paul .....	4.4	(*)	3.9	(*)	.3	(*)	4.3	(*)	3.2	(*)	.5	(*)
<b>MISSISSIPPI:</b>												
Jackson .....	4.7	5.7	3.9	4.9	.5	.6	4.8	4.1	3.2	2.6	.6	.7
<b>MISSOURI</b> .....	3.2	3.0	2.5	2.3	.5	.5	3.8	3.5	2.0	1.7	1.0	1.1
Kansas City .....	3.1	5.3	2.7	2.5	.3	2.7	3.4	3.4	2.3	1.9	.3	.7
St. Louis .....	2.5	2.1	1.8	1.5	.6	.4	3.1	2.8	1.2	1.0	1.1	1.1
<b>MONTANA</b> .....	3.3	4.4	2.9	4.0	.2	.3	4.7	2.8	3.0	1.7	.7	.7
<b>NEBRASKA</b> .....	4.7	4.5	4.3	4.2	.2	.2	4.2	4.3	3.2	3.0	.3	.5
<b>NEVADA</b> .....	8.1	8.6	7.3	8.2	.2	.2	6.5	7.9	4.9	5.5	.3	.7
<b>NEW HAMPSHIRE</b> .....	5.8	5.8	5.2	5.1	.3	.5	6.0	5.3	4.7	3.9	.4	.6
<b>NEW JERSEY:</b>												
Camden <sup>7</sup> .....	4.0	3.7	2.8	2.9	1.0	.4	3.5	3.4	1.9	1.3	.5	1.0
Hackensack .....	4.8	4.2	3.5	3.7	1.2	.3	4.8	4.1	2.6	2.0	.9	1.1
Jersey City .....	3.3	3.3	2.8	2.7	.4	.5	3.4	3.0	1.7	1.4	1.0	.8
Newark .....	3.9	3.5	2.8	3.0	1.0	.4	3.7	3.4	1.8	1.6	1.0	.8
New Brunswick—Perth Amboy—Sayreville .....	4.1	3.6	3.5	2.9	.5	.6	5.4	3.8	2.8	1.8	1.1	1.0
Paterson—Clifton—Passaic .....	4.3	3.9	3.1	3.0	.9	.8	4.4	4.2	2.2	1.9	1.3	1.5
Trenton .....	4.0	2.5	2.3	1.7	1.4	.5	3.2	3.8	1.4	1.0	1.0	2.0
<b>NEW YORK</b> .....	4.3	3.8	2.8	2.5	1.3	1.1	4.3	3.9	2.1	1.4	1.4	1.7
Albany—Schenectady—Troy .....	2.9	2.5	1.7	1.5	.5	.3	3.5	4.1	1.3	.9	1.0	2.0
Binghamton .....	2.6	2.2	2.0	1.6	.4	.2	3.1	2.5	1.8	1.4	.5	.3
Buffalo .....	3.7	2.6	1.7	1.4	1.8	.9	3.3	4.2	1.2	.6	1.4	2.8
Elmira .....	1.7	2.7	1.1	1.9	.3	.4	3.9	3.1	1.8	.9	.8	1.3
Monroe County <sup>8</sup> .....	2.6	1.9	1.5	1.5	1.1	.3	3.8	1.9	2.6	1.0	.6	.4
Nassau—Suffolk <sup>9</sup> .....	5.2	5.6	4.4	4.6	.6	.9	5.6	4.4	3.8	2.8	.7	.6
New York and Nassau—Suffolk .....	5.0	4.8	3.4	3.3	1.5	1.4	4.7	4.3	2.1	1.7	1.6	1.8
New York SMSA <sup>9</sup> .....	5.0	4.5	3.1	2.9	1.8	1.5	4.4	4.3	1.7	1.4	1.9	2.1
New York City <sup>10</sup> .....	5.3	4.8	3.2	3.0	2.0	1.7	4.7	4.6	1.7	1.4	2.1	2.4
Rochester .....	3.7	2.6	2.3	1.9	1.3	.5	4.5	2.9	3.1	1.5	.8	.9
Syracuse .....	2.7	2.5	1.6	1.5	.9	.8	3.7	2.8	1.5	1.0	1.5	1.0
Utica—Rome .....	2.6	2.7	2.0	2.0	.5	.5	2.5	2.6	1.3	1.3	.4	.8
Westchester County .....	2.9	2.8	2.4	2.4	.3	.3	3.3	2.9	1.6	1.4	.7	.8
<b>NORTH CAROLINA</b> .....	4.9	4.7	4.1	4.0	.4	.4	4.6	4.5	3.3	3.0	.3	.5
Charlotte—Gastonia .....	5.4	6.3	4.7	5.4	.4	.6	5.5	5.9	4.2	4.4	.3	.3
Greensboro—Winston-Salem—High Point .....	4.5	4.5	4.0	4.0	.2	.2	4.2	4.0	3.2	2.8	.2	.3
<b>NORTH DAKOTA</b> .....	8.8	13.8	5.5	8.1	3.0	5.4	8.1	6.1	6.4	4.1	.8	1.2
Fargo—Moorhead .....	4.5	12.1	4.0	6.2	.4	5.7	5.4	5.3	4.3	3.8	.3	.5
<b>OHIO</b> .....	2.9	2.5	1.9	1.5	(*)	(*)	3.8	3.5	1.6	.9	1.4	1.7
Akron .....	2.1	2.0	1.4	1.3	(*)	(*)	1.7	1.8	.9	.6	.3	.7
Canton .....	2.4	2.4	1.5	2.0	(*)	(*)	3.5	3.1	1.6	.9	.8	1.3
Cincinnati .....	2.5	2.6	1.8	2.0	(*)	(*)	3.2	3.0	1.4	1.0	1.0	1.3
Cleveland .....	2.7	2.8	1.7	1.7	(*)	(*)	3.7	3.3	1.5	1.0	1.3	1.4
Columbus .....	2.9	2.6	2.0	1.7	(*)	(*)	3.7	2.6	1.8	1.1	1.3	.8
Dayton .....	2.4	2.1	1.8	1.5	(*)	(*)	2.6	1.9	1.1	.8	.6	.5
Toledo .....	2.4	1.5	1.1	.9	(*)	(*)	4.0	2.5	1.1	.7	2.2	1.1
Youngstown—Warren .....	3.0	1.9	1.7	1.0	(*)	(*)	3.2	3.2	1.4	.6	.9	1.4
<b>OKLAHOMA</b> .....	7.2	8.5	6.4	7.5	.5	.6	6.6	6.6	4.8	4.8	.6	.6
Oklahoma City .....	7.5	10.5	6.6	9.5	.6	.4	6.4	6.6	4.6	5.3	.5	.2
Tulsa <sup>11</sup> .....	6.5	7.3	5.8	6.8	.4	.3	6.2	6.0	4.2	4.0	.4	.4
<b>OREGON</b> <sup>5</sup> .....	4.6	4.2	3.9	3.5	.5	.6	5.5	4.4	3.8	2.3	.7	1.2
Eugene—Springfield <sup>5</sup> .....	3.2	3.0	2.5	2.4	.5	.4	4.9	3.7	3.4	1.7	.5	1.2
Portland <sup>5</sup> .....	5.1	4.5	4.4	4.0	.6	.4	5.6	4.5	3.7	2.4	.9	1.0
<b>PENNSYLVANIA</b> .....	3.1	2.9	2.1	1.9	.7	.7	3.5	3.1	1.6	1.1	1.2	1.3
Allentown—Bethlehem—Easton .....	2.7	3.0	1.6	1.7	.8	1.0	2.6	2.6	1.2	1.0	1.0	1.1
Altoona .....	2.0	2.1	1.5	1.8	.3	.2	2.5	2.4	1.2	.8	.9	1.0
Erie .....	3.2	2.6	2.2	1.8	.5	.4	3.2	3.2	1.7	1.1	.5	1.1
Harrisburg .....	3.0	2.9	2.5	2.2	.3	.5	3.7	4.0	2.4	1.3	.6	1.9
Johnstown .....	2.0	2.8	1.0	1.2	.9	1.6	6.0	2.6	.8	.6	4.2	1.7
Lancaster .....	3.3	3.3	2.8	2.9	.4	.3	3.8	3.6	2.3	2.0	.9	.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	
	Sept. 1979	Oct. 1979 <sup>p</sup>	Sept. 1979	Oct. 1979 <sup>p</sup>	Sept. 1979	Oct. 1979 <sup>p</sup>	Sept. 1979	Oct. 1979 <sup>p</sup>	Sept. 1979	Oct. 1979 <sup>p</sup>	Sept. 1979	Oct. 1979 <sup>p</sup>
<b>PENNSYLVANIA—Continued</b>												
Northeast Pennsylvania .....	4.2	4.1	1.7	1.8	2.0	1.9	4.5	4.7	1.6	1.2	2.3	2.8
Philadelphia SMSA .....	3.4	3.1	2.6	2.3	.6	.6	3.6	3.2	1.7	1.3	1.0	1.2
Pittsburgh .....	2.1	2.3	1.1	1.1	.6	.9	3.4	3.1	1.2	.6	1.4	1.8
Reading <sup>12</sup> .....	3.8	3.0	2.7	2.4	.9	.4	3.1	3.0	1.8	1.6	.6	.8
Scranton <sup>12</sup> .....	4.4	4.5	2.1	2.0	1.8	2.4	4.0	3.7	1.4	1.3	2.2	2.0
Wilkes-Barre—Hazleton <sup>12</sup> .....	3.6	3.6	1.7	1.6	1.4	1.7	3.6	3.8	1.6	1.2	1.5	1.9
Williamsport .....	1.6	1.3	.8	.7	.6	.5	4.0	2.1	.8	.4	2.6	1.3
York .....	5.3	4.2	3.7	3.5	1.4	.6	4.2	3.9	2.6	2.3	.9	.9
<b>RHODE ISLAND</b> .....	7.0	5.8	5.9	4.9	.7	.6	7.2	5.7	4.8	3.3	1.2	1.2
Providence—Warwick—Pawtucket .....	6.8	5.9	5.6	4.9	.8	.6	7.1	5.8	4.6	3.5	1.1	1.2
<b>SOUTH CAROLINA</b> .....	4.4	4.4	3.7	3.7	.4	.4	4.4	4.1	3.0	2.6	.5	.4
Charleston—North Charleston .....	4.1	4.2	3.3	3.4	.7	.7	4.2	4.3	2.2	2.2	.7	.5
Columbia .....	4.9	4.9	4.6	4.6	.1	.1	4.0	4.2	2.8	2.9	.2	.3
Greenville—Spartanburg .....	4.9	5.0	4.3	4.5	.3	.2	5.0	4.9	3.5	3.1	.4	.6
<b>SOUTH DAKOTA</b> .....	6.2	5.0	5.8	4.5	.3	.2	5.0	4.2	3.8	3.2	.3	.3
Sioux Falls .....	6.4	4.7	6.3	4.0	( <sup>1</sup> )	.6	5.0	3.6	4.0	2.7	.2	.1
<b>TENNESSEE:</b>												
Memphis .....	3.5	3.4	2.8	2.8	.5	.4	3.3	3.3	1.8	1.6	.6	.8
<b>TEXAS:</b>												
Dallas—Fort Worth .....	6.7	5.8	5.5	5.3	1.2	.3	5.5	4.9	4.2	3.7	.3	.2
Houston .....	4.3	4.5	4.0	4.2	.1	.2	4.0	4.1	2.9	3.0	.1	.2
San Antonio .....	5.4	5.9	5.0	5.5	.3	.3	5.5	4.8	4.2	3.9	.3	.1
<b>UTAH</b> <sup>4</sup> .....	6.3	6.2	5.8	5.8	.2	.2	6.3	5.5	4.8	3.7	.3	.7
Salt Lake City—Ogden <sup>4</sup> .....	5.8	6.3	5.6	6.1	( <sup>1</sup> )	.1	5.7	5.1	4.5	3.7	.3	.5
<b>VERMONT</b> .....	4.4	3.8	3.3	3.1	1.0	.6	4.5	4.0	2.4	1.9	1.3	1.4
Burlington .....	2.2	2.7	1.8	2.5	.2	.1	3.3	2.4	1.2	1.0	1.7	.9
Springfield .....	3.5	4.1	2.6	3.2	.9	.9	3.5	3.3	1.7	1.7	1.1	1.0
<b>VIRGINIA</b> .....	4.5	3.8	3.4	3.2	.8	.3	3.9	3.9	2.4	2.0	.5	.9
Richmond .....	2.3	2.7	1.8	2.1	.1	.1	2.2	2.1	1.3	.9	.2	.3
<b>WASHINGTON:</b>												
Seattle—Everett <sup>13</sup> .....	4.6	4.2	3.5	3.4	1.0	.7	4.4	3.9	2.6	1.8	1.0	.6
<b>WISCONSIN</b> .....	3.9	3.1	2.9	2.2	.7	.5	4.6	3.9	2.3	1.5	1.3	1.6
Milwaukee .....	3.7	3.1	2.6	2.3	.7	.4	4.0	3.6	1.7	1.4	1.2	1.2
<b>WYOMING</b> .....	9.5	11.7	8.1	8.9	1.4	2.8	8.6	12.4	7.1	6.1	.1	4.2

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

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

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

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

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

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

<sup>7</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

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

<sup>9</sup> Area included in New York and Nassau-Suffolk combined SMSA's.

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

<sup>11</sup> Excludes new-hire rate for transportation equipment.

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

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

<sup>p</sup> preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>ALABAMA</b>	1,606.1	1,664.1	1,645.5	89.3	113.1	112.7	5.6	6.8	6.9
Birmingham	373.3	385.5	384.8	19.0	24.0	23.9	5.1	6.2	6.2
Huntsville	134.1	141.1	139.5	7.5	9.3	8.9	5.6	6.6	6.4
Mobile	179.0	188.2	183.1	10.9	15.7	12.9	6.1	8.3	7.0
Montgomery	116.1	121.4	120.9	5.9	6.6	6.7	5.1	5.4	5.5
Tuscaloosa	51.5	52.2	52.2	3.1	2.7	2.8	6.1	5.1	5.4
<b>ALASKA</b>	174.9	184.2	181.3	19.4	14.5	16.5	11.1	7.9	9.1
<b>ARIZONA</b>	1,030.9	1,063.4	1,075.0	58.5	51.2	49.9	5.7	4.8	4.6
Phoenix	623.9	644.9	653.2	30.4	26.8	26.5	4.9	4.1	4.1
Tucson	184.9	191.4	193.6	9.5	7.7	7.2	5.1	4.0	3.7
<b>ARKANSAS</b>	934.7	985.9	962.2	65.0	60.6	65.3	7.0	6.1	6.8
Fayetteville-Springdale	73.2	76.1	75.3	4.0	3.2	3.5	5.5	4.2	4.6
Fort Smith <sup>1</sup>	84.1	83.6	83.0	7.5	6.7	7.0	8.9	8.0	8.4
Little Rock-North Little Rock	176.1	185.6	183.2	9.3	8.4	8.3	5.3	4.5	4.5
Pine Bluff	36.9	38.7	37.7	2.6	2.2	2.2	7.0	5.8	5.7
<b>CALIFORNIA<sup>2</sup></b>	10,686.9	11,067.1	11,049.6	646.2	636.4	629.8	6.0	5.8	5.7
Anaheim-Santa Ana-Garden Grove	1,014.5	1,088.3	1,086.7	37.3	44.7	40.8	3.7	4.1	3.8
Bakersfield	166.6	176.6	175.9	14.0	13.8	17.5	8.4	7.8	10.0
Fresno	239.7	265.2	254.1	19.4	19.9	20.7	8.1	7.5	8.1
Los Angeles-Long Beach <sup>2</sup>	3,538.0	3,488.0	3,565.0	225.0	184.0	165.0	6.3	5.3	4.6
Modesto	126.8	137.5	133.9	13.1	10.7	13.4	10.3	7.7	10.0
Oxnard-Simi Valley-Ventura	206.6	217.7	216.3	13.3	17.3	16.8	6.5	7.9	7.8
Riverside-San Bernardino-Ontario	553.7	580.4	579.8	32.0	38.6	36.9	5.8	6.7	6.4
Sacramento	441.8	470.1	468.2	28.2	28.8	31.3	6.4	6.1	6.7
Salinas-Seaside-Monterey	122.7	132.2	125.2	8.7	8.1	9.8	7.1	6.1	7.8
San Diego	697.4	739.3	734.8	35.5	42.4	40.5	5.1	5.7	5.5
San Francisco-Oakland	1,575.6	1,626.8	1,615.4	79.8	87.1	81.6	5.1	5.4	5.1
San Jose	663.1	712.6	703.7	31.5	35.1	32.6	4.8	4.9	4.6
Santa Barbara-Santa Maria-Lompoc	137.6	143.4	141.9	7.8	8.7	8.3	5.7	6.1	5.9
Santa Rosa	118.3	128.1	123.8	6.8	7.5	7.7	5.8	5.8	6.2
Stockton	153.3	170.6	160.2	14.8	12.4	15.8	9.6	7.3	9.8
Vallejo-Fairfield-Napa	119.5	126.0	122.9	7.0	7.4	8.2	5.9	5.9	6.7
<b>COLORADO</b>	1,308.5	1,407.1	1,392.6	67.3	60.2	63.2	5.1	4.3	4.5
Denver-Boulder	771.1	827.5	823.6	36.4	33.5	33.5	4.7	4.1	4.1
<b>CONNECTICUT</b>	1,527.5	1,573.4	1,575.3	64.0	74.9	74.9	4.2	4.8	4.8
Bridgeport	187.4	191.2	191.6	8.9	9.7	9.8	4.7	5.1	5.1
Hartford	365.8	378.1	378.1	14.2	16.1	15.3	3.9	4.3	4.0
New Britain	71.4	70.7	73.3	2.9	3.4	3.7	4.0	4.8	5.0
New Haven-West Haven	197.3	202.8	204.1	7.6	10.3	10.6	3.8	5.1	5.2
Stamford	118.7	120.6	120.2	4.3	4.4	4.2	3.7	3.6	3.5
Waterbury	107.1	109.4	108.2	4.9	5.8	5.6	4.6	5.3	5.2
<b>DELAWARE</b>	275.4	273.0	278.5	18.6	19.4	24.8	6.8	7.1	8.9
Wilmington <sup>1</sup>	242.6	239.4	243.4	15.0	15.4	20.0	6.2	6.4	8.2
<b>DISTRICT OF COLUMBIA</b>	328.4	319.8	325.2	25.1	20.0	20.4	7.6	6.3	6.3
Washington SMSA <sup>1</sup>	1,568.7	1,587.4	1,598.1	68.7	66.6	66.0	4.4	4.2	4.1
<b>FLORIDA<sup>2</sup></b>	3,710.0	3,820.4	3,737.0	231.0	240.6	218.7	6.2	6.3	5.9
Fort Lauderdale-Hollywood	377.6	388.0	380.5	22.1	21.8	19.5	5.9	5.6	5.1
Jacksonville	303.6	311.2	302.3	17.3	17.7	17.2	5.7	5.7	5.7
Miami	688.3	710.8	695.5	43.8	42.1	38.5	6.4	5.9	5.5
Orlando	296.2	310.7	303.8	17.7	18.6	16.9	6.0	6.0	5.5
Pensacola	109.6	112.6	109.3	6.0	6.3	6.4	5.4	5.6	5.9
Tampa-St. Petersburg	567.3	581.4	565.7	32.0	31.0	30.0	5.6	5.3	5.3
West Palm Beach-Boca Raton	211.5	219.1	215.7	14.4	15.5	12.8	6.8	7.1	5.9
<b>GEORGIA</b>	2,330.7	2,370.6	2,350.4	129.9	121.8	114.8	5.6	5.1	4.9
Albany	48.7	51.4	51.6	3.1	3.1	3.1	6.4	6.1	5.9
Atlanta	919.2	920.2	919.5	48.0	42.1	40.0	5.2	4.6	4.3
Augusta	124.9	127.5	126.9	7.4	7.0	6.5	5.9	5.5	5.1
Columbus <sup>1</sup>	85.3	88.9	88.5	5.4	6.2	5.8	6.3	7.0	6.5
Macon	103.3	100.7	100.6	6.9	5.6	5.2	6.7	5.6	5.2
Savannah	91.8	89.5	89.2	5.9	4.9	5.0	6.4	5.5	5.6

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		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>HAWAII</b> .....	395.1	399.9	408.6	29.2	24.8	26.5	7.4	6.2	6.5
Honolulu .....	311.6	314.6	322.7	22.2	19.1	21.0	7.1	6.1	6.5
<b>IDAHO</b> .....	407.3	417.3	411.2	22.3	17.1	19.2	5.5	4.1	4.7
Boise City .....	90.9	85.5	87.2	3.2	2.6	3.1	3.5	3.0	3.6
<b>ILLINOIS</b> <sup>2</sup> .....	5,413.7	5,416.4	5,427.9	280.3	298.5	297.8	5.2	5.5	5.5
Bloomington—Normal .....	61.1	61.5	61.3	1.8	1.7	2.1	2.9	2.8	3.4
Champaign—Urbana—Rantoul .....	80.8	82.8	82.8	3.3	3.1	3.1	4.0	3.8	3.7
Chicago .....	3,462.4	3,472.3	3,483.8	176.2	182.1	176.5	5.1	5.2	5.1
Davenport—Rock Island—Moline <sup>1</sup> .....	182.5	183.1	182.9	7.6	7.1	9.1	4.1	3.9	5.0
Decatur .....	60.3	58.0	59.5	3.5	4.6	6.5	5.8	7.9	10.9
Peoria .....	177.3	167.9	168.9	7.5	10.6	11.3	4.2	6.3	6.7
Rockford .....	139.3	140.1	140.7	6.3	7.4	7.5	4.5	5.3	5.4
Springfield .....	96.2	95.3	95.4	5.5	6.0	5.6	5.7	6.3	5.8
<b>INDIANA</b> .....	2,587.0	2,610.9	2,608.7	128.4	172.1	182.2	5.0	6.6	7.0
Anderson .....	60.3	59.4	60.2	3.2	5.1	6.5	5.3	8.6	10.9
Evansville <sup>1</sup> .....	141.1	139.2	139.4	7.0	7.6	7.9	5.0	5.4	5.6
Fort Wayne .....	187.4	191.5	190.6	7.2	11.0	10.6	3.8	5.8	5.6
Gary—Hammond—East Chicago .....	291.0	294.8	294.4	15.5	25.1	26.0	5.3	8.5	8.8
Indianapolis .....	580.8	586.5	588.3	26.0	33.6	34.3	4.5	5.7	5.8
Lafayette—West Lafayette .....	64.1	64.4	64.6	2.1	3.0	3.1	3.3	4.7	4.9
Muncie .....	56.7	57.0	57.2	3.5	4.0	4.1	6.1	7.0	7.2
South Bend .....	141.7	142.2	141.7	6.8	9.1	9.3	4.8	6.4	6.6
Terre Haute .....	81.8	82.2	81.9	3.7	4.6	4.6	4.6	5.5	5.6
<b>IOWA</b> .....	1,420.4	1,442.4	1,428.6	48.6	48.4	59.0	3.4	3.4	4.1
Cedar Rapids .....	85.6	88.6	88.3	2.4	2.5	3.3	2.8	2.9	3.7
Des Moines .....	180.7	181.0	180.1	6.0	6.7	7.4	3.3	3.7	4.1
Dubuque .....	44.9	46.0	45.4	2.0	2.4	2.4	4.4	5.3	5.2
Sioux City <sup>1</sup> .....	57.1	55.4	55.0	3.4	3.0	3.2	5.9	5.4	5.8
Waterloo—Cedar Falls .....	68.1	70.4	69.9	3.2	2.9	2.9	4.8	4.1	4.2
<b>KANSAS</b> .....	1,163.4	1,194.8	1,200.0	33.9	35.2	35.9	2.9	2.9	3.0
Topeka .....	96.0	96.0	96.9	3.6	4.1	4.1	3.8	4.3	4.2
Wichita .....	221.2	230.4	235.1	7.0	6.9	6.4	3.2	3.0	2.7
<b>KENTUCKY</b> .....	1,588.5	1,633.6	1,635.6	70.6	92.8	91.6	4.4	5.7	5.6
Lexington—Fayette .....	167.2	173.5	173.6	4.8	6.7	5.9	2.9	3.8	3.4
Louisville <sup>1</sup> .....	418.2	427.2	429.6	18.3	24.7	22.9	4.4	5.4	5.3
Owensboro .....	38.4	40.1	39.9	1.8	2.4	2.4	4.8	6.0	5.9
<b>LOUISIANA</b> .....	1,613.4	1,689.5	1,684.3	100.4	115.7	116.9	6.2	6.8	6.9
Alexandria .....	66.7	68.9	68.4	4.7	5.5	5.8	7.1	8.0	8.5
Baton Rouge .....	201.1	205.0	205.9	11.8	14.1	14.2	5.9	6.9	6.9
Lafayette .....	64.1	71.3	71.8	2.6	3.4	3.5	4.0	4.8	4.9
Lake Charles .....	64.6	66.2	66.3	4.4	4.6	4.6	6.8	6.9	7.0
Monroe .....	52.3	52.9	53.1	3.5	3.8	4.2	6.7	7.3	7.9
New Orleans .....	459.5	471.6	474.3	29.2	32.0	31.5	6.4	6.8	6.7
Shreveport .....	147.6	153.0	153.8	8.2	9.0	9.4	5.6	5.8	6.1
<b>MAINE</b> .....	470.4	486.2	485.8	24.3	30.1	30.5	5.2	6.2	6.3
Lewiston—Auburn .....	36.5	38.7	38.6	1.5	2.2	2.1	4.0	5.7	5.4
Portland .....	84.7	84.6	86.8	3.4	4.3	4.2	4.0	5.0	4.9
<b>MARYLAND</b> .....	2,051.2	2,106.4	2,111.7	101.9	117.3	120.1	5.0	5.6	5.7
Baltimore .....	1,048.4	1,064.9	1,066.6	56.8	65.9	63.6	5.4	6.2	6.0
<b>MASSACHUSETTS</b> <sup>2</sup> .....	2,835.7	2,851.4	2,818.8	148.1	124.2	134.0	5.2	4.4	4.8
Boston .....	1,366.7	1,364.6	1,349.7	65.7	57.4	58.4	4.8	4.2	4.3
Brockton .....	82.3	79.6	80.0	4.5	3.8	4.3	5.4	4.8	5.3
Fall River <sup>1</sup> .....	80.8	78.3	77.6	6.1	4.0	5.2	7.6	5.1	6.7
Lawrence—Haverhill <sup>1</sup> .....	139.1	137.2	135.1	8.6	7.8	7.7	6.2	5.7	5.7
Lowell .....	112.1	120.7	119.7	6.1	5.5	6.4	5.4	4.6	5.3
New Bedford .....	82.3	83.9	83.4	6.2	5.0	6.2	7.5	6.0	7.5
Springfield—Chicopee—Holyoke .....	274.0	282.5	278.1	12.0	10.1	10.8	4.4	3.6	3.9
Worcester .....	197.2	200.1	198.1	8.5	7.2	8.1	4.3	3.6	4.1
<b>MICHIGAN</b> <sup>2</sup> .....	4,240.6	4,343.0	4,369.4	280.2	314.7	345.1	6.6	7.2	7.9
Ann Arbor .....	139.2	147.4	145.9	6.9	9.7	8.6	4.9	6.5	5.9

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>MICHIGAN—Continued</b>									
Battle Creek .....	82.6	82.8	83.1	5.2	5.7	5.9	6.3	6.9	7.1
Bay City .....	54.7	54.0	55.0	3.1	3.6	4.2	5.7	6.6	7.7
Detroit .....	2,014.9	2,058.3	2,073.3	126.1	157.0	172.1	6.3	7.6	8.3
Flint .....	231.0	225.9	226.3	16.6	18.2	18.0	7.2	8.1	8.0
Grand Rapids .....	293.5	305.0	306.9	14.8	15.0	16.4	5.0	4.9	5.3
Jackson .....	66.3	69.4	69.8	3.8	4.6	5.0	5.7	6.6	7.1
Kalamazoo—Portage .....	133.2	135.3	136.0	7.1	6.7	7.2	5.4	5.0	5.3
Lansing—East Lansing .....	233.8	240.8	242.5	12.5	14.8	14.4	5.3	6.2	5.9
Muskegon—Norton Shores—Muskegon Heights .....	76.9	77.6	77.9	6.3	5.8	6.6	8.1	7.4	8.5
Saginaw .....	105.6	104.8	105.2	5.8	8.5	8.3	5.5	8.1	7.9
<b>MINNESOTA</b> .....	2,039.5	2,054.2	2,069.9	71.4	74.6	90.1	3.5	3.6	4.4
Duluth—Superior <sup>1</sup> .....	119.0	118.8	119.0	5.9	5.9	6.7	5.0	5.0	5.6
Minneapolis—St. Paul .....	1,077.3	1,088.0	1,104.6	30.4	35.0	38.3	2.8	3.2	3.5
<b>MISSISSIPPI</b> .....	970.8	996.1	978.0	62.6	53.1	57.9	6.4	5.3	5.9
Jackson .....	143.4	147.7	146.1	6.7	5.3	5.0	4.7	3.6	3.4
<b>MISSOURI</b> .....	2,259.9	2,332.4	2,288.7	99.2	105.4	105.8	4.4	4.5	4.6
Kansas City <sup>1</sup> .....	689.8	693.1	690.3	27.5	28.1	28.4	4.0	4.0	4.1
St. Joseph .....	44.8	44.3	43.3	2.3	2.3	2.4	5.1	5.3	5.6
St. Louis <sup>1</sup> .....	1,098.8	1,096.3	1,081.2	51.7	63.4	59.1	4.7	5.8	5.5
Springfield .....	103.2	103.9	103.1	4.0	3.9	4.0	3.8	3.8	3.9
<b>MONTANA</b> .....	367.6	368.7	363.4	21.2	15.0	18.4	5.8	4.1	5.1
Billings .....	55.2	54.0	53.8	2.6	1.5	2.1	4.8	2.8	3.9
Great Falls .....	36.3	33.7	33.7	2.7	1.7	2.1	7.4	5.1	6.3
<b>NEBRASKA</b> .....	768.6	778.5	777.9	18.8	25.4	24.6	2.5	3.3	3.2
Lincoln .....	112.7	111.2	112.9	2.6	3.7	3.4	2.3	3.4	3.0
Omaha <sup>1</sup> .....	277.2	273.8	275.8	8.9	13.1	12.3	3.2	4.8	4.5
<b>NEVADA</b> .....	345.9	352.7	353.3	13.8	16.6	16.6	4.0	4.7	4.7
Las Vegas .....	183.9	189.5	190.4	7.7	10.4	10.0	4.2	5.5	5.2
Reno .....	102.7	103.6	104.0	2.6	3.2	3.5	2.6	3.1	3.3
<b>NEW HAMPSHIRE</b> .....	435.9	449.7	445.4	15.6	11.4	12.0	3.6	2.5	2.7
Manchester .....	82.6	83.5	83.8	2.7	1.9	2.3	3.3	2.3	2.7
Nashua .....	58.3	61.5	61.5	1.8	1.6	1.6	3.1	2.6	2.6
<b>NEW JERSEY</b> .....	3,583.8	3,563.0	3,547.0	219.2	224.1	232.4	6.1	6.3	6.6
Atlantic City .....	88.0	97.6	98.1	7.5	8.5	8.9	8.5	8.7	9.1
Jersey City .....	260.1	250.0	248.1	24.0	21.0	22.1	9.2	8.4	8.9
Long Branch—Asbury Park .....	230.7	223.6	222.8	16.3	14.5	15.4	7.1	6.5	6.9
Newark .....	1,009.6	985.1	981.6	55.1	60.5	63.2	5.5	6.1	6.4
New Brunswick—Perth Amboy—Sayreville .....	330.4	329.3	327.2	17.8	17.6	18.8	5.4	5.4	5.8
Paterson—Clifton—Passaic .....	227.2	220.1	219.7	15.5	19.0	18.3	6.8	8.6	8.3
Trenton .....	166.2	164.7	162.5	7.1	8.5	7.8	4.3	5.1	4.8
Vineland—Millville—Bridgeton .....	63.5	62.0	62.7	5.7	4.9	6.1	9.0	7.8	9.7
<b>NEW MEXICO</b> .....	534.6	550.1	547.0	29.2	38.2	38.1	5.5	6.9	7.0
Albuquerque .....	197.3	203.3	204.2	10.3	13.1	13.8	5.2	6.5	6.8
<b>NEW YORK<sup>2</sup></b> .....	7,906.1	7,952.0	8,093.6	565.8	561.4	561.2	7.2	7.1	6.9
Albany—Schenectady—Troy .....	375.6	373.8	381.7	22.6	22.2	21.8	6.0	5.9	5.7
Binghamton <sup>1</sup> .....	140.9	143.2	146.1	8.3	8.5	9.5	5.9	5.9	6.5
Buffalo .....	580.2	587.4	598.4	39.8	46.3	44.7	6.9	7.9	7.5
Elmira .....	40.5	41.4	41.9	2.4	2.8	2.8	6.0	6.9	6.6
Nassau—Suffolk .....	1,264.2	1,281.0	1,298.9	78.7	83.1	72.9	6.2	6.5	5.6
New York .....	3,584.2	3,579.2	3,653.9	284.1	268.8	277.4	7.9	7.5	7.6
New York City <sup>2</sup> .....	2,990.0	2,978.0	3,043.0	254.0	237.0	249.0	8.5	8.0	8.2
Poughkeepsie .....	104.8	106.3	108.6	4.7	4.8	4.5	4.5	4.5	4.1
Rochester .....	471.0	476.7	486.0	24.6	25.8	26.0	5.2	5.4	5.3
Syracuse .....	308.7	308.5	313.8	19.1	19.3	18.8	6.2	6.2	6.0
Utica—Rome .....	136.5	140.7	142.4	9.6	8.7	8.8	6.9	6.2	6.2
<b>NORTH CAROLINA</b> .....	2,667.8	2,696.2	2,686.0	85.6	121.6	117.5	3.2	4.5	4.4
Asheville .....	81.6	81.3	81.2	2.5	3.2	3.0	3.1	3.9	3.7
Charlotte—Gastonia .....	331.6	331.5	333.5	7.5	11.4	10.9	2.2	3.4	3.3

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		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
<b>NORTH CAROLINA—Continued</b>									
Greensboro—Winston-Salem—High Point .....	413.9	419.7	418.7	10.3	18.2	15.6	2.5	4.3	3.7
Raleigh—Durham .....	276.6	282.3	284.2	6.2	8.9	9.3	2.2	3.2	3.3
<b>NORTH DAKOTA</b> .....	284.6	299.1	287.5	14.5	6.9	9.6	5.1	2.3	3.3
Fargo—Moorhead <sup>1</sup> .....	71.0	70.8	70.3	2.3	2.0	2.8	3.3	2.8	3.9
<b>OHIO<sup>2</sup></b> .....	5,107.3	5,121.8	5,097.6	251.1	302.5	269.0	4.9	5.9	5.3
Akron .....	306.5	305.4	305.2	15.1	17.0	15.6	4.9	5.6	5.1
Canton .....	184.6	185.8	185.7	9.9	10.8	10.4	5.3	5.8	5.6
Cincinnati <sup>1</sup> .....	670.1	681.8	681.8	31.3	35.5	33.2	4.7	5.2	4.9
Cleveland .....	953.8	943.4	943.7	40.1	50.1	42.9	4.2	5.3	4.5
Columbus .....	552.4	554.4	555.8	23.1	25.1	20.5	4.2	4.5	3.7
Dayton .....	394.3	397.3	395.6	16.2	24.2	20.9	4.1	6.1	5.3
Toledo <sup>1</sup> .....	375.7	378.3	377.1	21.0	27.1	26.0	5.6	7.2	6.9
Youngstown—Warren .....	241.7	240.3	240.4	14.9	15.7	14.4	6.2	6.5	6.0
<b>OKLAHOMA</b> .....	1,270.5	1,304.9	1,310.5	47.7	43.5	44.5	3.8	3.3	3.4
Oklahoma City .....	387.2	409.5	412.6	13.0	12.9	12.1	3.4	3.2	2.9
Tulsa .....	302.8	303.8	306.8	10.9	9.7	9.9	3.6	3.2	3.2
<b>OREGON</b> .....	1,209.2	1,221.3	1,215.2	73.0	76.4	87.3	6.0	6.3	7.2
Eugene—Springfield .....	127.8	127.9	126.1	8.9	11.0	12.3	7.0	8.6	9.8
Portland <sup>1</sup> .....	586.3	583.1	584.7	29.9	30.7	31.5	5.1	5.3	5.4
Salem .....	114.1	118.0	116.3	7.3	6.5	8.3	6.4	5.5	7.1
<b>PENNSYLVANIA<sup>2</sup></b> .....	5,332.4	5,363.9	5,375.2	352.4	426.0	369.4	6.6	7.9	6.9
Allentown—Bethlehem—Easton <sup>1</sup> .....	297.0	301.3	302.3	15.7	22.8	19.0	5.3	7.6	6.3
Altoona .....	57.1	59.7	59.6	4.7	5.9	5.2	8.3	9.9	8.7
Erie .....	126.2	127.8	127.9	8.6	10.5	9.5	6.8	8.2	7.4
Harrisburg .....	215.7	217.0	217.6	9.8	12.7	10.8	4.5	5.9	5.0
Johannstown .....	106.7	110.2	110.5	8.7	11.0	10.0	8.2	10.0	9.0
Lancaster .....	173.6	177.4	177.8	7.1	9.6	8.0	4.1	5.4	4.5
Northeast Pennsylvania .....	292.3	284.9	286.0	23.6	27.9	25.0	8.3	9.8	8.7
Philadelphia <sup>1</sup> .....	2,120.9	2,132.6	2,136.9	145.4	162.8	139.4	6.9	7.6	6.5
Pittsburgh .....	1,006.2	1,017.8	1,019.3	57.9	69.2	60.4	5.8	6.8	5.9
Reading .....	149.9	155.7	156.9	6.9	9.8	8.4	4.6	6.3	5.4
Williamsport .....	54.2	55.6	56.0	4.3	6.5	6.2	7.9	11.6	11.1
York .....	168.9	172.3	171.9	7.5	10.4	8.9	4.4	6.0	5.2
<b>RHODE ISLAND</b> .....	437.9	453.7	454.5	24.1	23.0	23.5	5.5	5.1	5.2
Providence—Warwick—Pawtucket <sup>1</sup> .....	443.0	452.9	453.3	24.0	23.2	23.4	5.4	5.1	5.2
<b>SOUTH CAROLINA</b> .....	1,297.6	1,338.2	1,328.3	67.8	62.9	64.3	5.2	4.7	4.8
Charleston—North Charleston .....	151.7	157.5	156.8	8.9	7.9	7.6	5.9	5.0	4.8
Columbia .....	172.5	178.1	177.9	6.9	6.2	6.3	4.0	3.5	3.6
Greenville—Spartanburg .....	257.1	264.4	263.2	10.1	9.9	10.4	3.9	3.7	4.0
<b>SOUTH DAKOTA</b> .....	320.9	338.3	329.3	8.6	8.2	9.6	2.7	2.4	2.9
Sioux Falls .....	59.1	60.1	59.8	.9	1.1	1.3	1.5	1.8	2.2
<b>TENNESSEE</b> .....	1,958.2	2,029.3	2,017.1	104.4	119.9	124.9	5.3	5.9	6.2
Chattanooga <sup>1</sup> .....	186.7	193.0	192.6	9.8	12.8	13.0	5.2	6.6	6.7
Knoxville .....	206.2	212.4	212.9	9.3	10.5	11.3	4.5	4.9	5.3
Memphis <sup>1</sup> .....	377.9	388.0	388.4	21.1	20.9	21.7	5.6	5.4	5.6
Nashville—Davidson .....	403.7	412.6	409.1	16.4	19.2	17.9	4.1	4.6	4.4
<b>TEXAS<sup>2</sup></b> .....	6,099.9	6,263.9	6,271.6	291.9	235.5	268.7	4.8	3.8	4.3
Amarillo .....	86.2	89.0	89.3	3.2	2.6	2.9	3.8	2.9	3.2
Austin .....	240.8	250.6	251.1	8.0	7.0	7.8	3.3	2.8	3.1
Beaumont—Port Arthur—Orange .....	167.2	164.2	164.0	11.1	7.7	8.9	6.6	4.7	5.4
Corpus Christi .....	132.0	132.5	133.9	7.0	6.1	7.3	5.3	4.6	5.4
Dallas—Fort Worth .....	1,423.9	1,504.6	1,503.0	53.2	46.2	49.9	3.7	3.1	3.3
El Paso .....	170.5	171.7	174.6	15.4	12.1	14.2	9.1	7.1	8.1
Galveston—Texas City .....	83.6	82.4	82.3	5.2	3.5	4.0	6.3	4.2	4.8
Houston .....	1,377.0	1,419.9	1,420.2	56.4	43.3	47.2	4.1	3.0	3.3
Lubbock .....	103.5	104.2	103.8	3.4	3.1	3.2	3.3	3.0	3.0
San Antonio .....	408.7	415.4	415.4	25.9	21.2	23.3	6.3	5.1	5.6
Waco .....	77.6	79.2	79.6	3.8	2.9	3.0	4.9	3.6	3.8
Wichita Falls .....	59.9	60.5	60.5	2.5	1.6	2.0	4.2	2.7	3.3

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		
	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P	NOV. 1978	OCT. 1979	NOV. 1979P
UTAH .....	554.0	587.0	582.6	21.8	25.3	27.1	3.9	4.3	4.6
Salt Lake City—Ogden .....	371.2	387.6	386.5	14.2	17.0	17.6	3.8	4.4	4.6
VERMONT .....	237.0	242.3	240.1	11.9	9.8	12.0	5.0	4.0	5.0
VIRGINIA .....	2,457.3	2,478.4	2,486.3	116.4	111.8	118.9	4.7	4.5	4.8
Lynchburg .....	73.1	76.7	77.4	2.9	2.9	3.5	3.9	3.8	4.5
Newport News—Hampton .....	153.3	162.2	162.9	8.6	8.5	9.1	5.6	5.3	5.6
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	320.5	321.4	321.0	18.3	18.0	18.0	5.7	5.6	5.6
Petersburg—Colonial Heights—Hopewell .....	60.5	58.8	59.1	3.3	3.2	3.0	5.5	5.4	5.1
Richmond .....	321.0	322.0	323.3	10.4	10.3	10.3	3.3	3.2	3.2
Roanoke .....	110.5	109.4	109.8	4.6	4.7	4.7	4.2	4.3	4.3
WASHINGTON .....	1,785.0	1,899.2	1,860.7	107.5	111.4	113.0	6.0	5.9	6.1
Seattle—Everett .....	783.8	839.4	836.4	39.7	42.6	40.6	5.1	5.1	4.9
Spokane .....	144.2	148.9	147.7	8.1	8.6	9.5	5.6	5.8	6.4
Tacoma .....	165.5	172.9	171.5	10.4	11.8	12.2	6.3	6.8	7.1
WEST VIRGINIA .....	722.5	762.3	767.0	37.3	48.7	52.8	5.2	6.4	6.9
Charleston .....	117.9	127.5	127.8	3.7	5.5	5.5	3.1	4.3	4.3
Huntington—Ashland <sup>1</sup> .....	118.0	121.4	122.7	5.4	6.9	7.4	4.5	5.7	6.0
Parkersburg—Marietta <sup>1</sup> .....	68.0	70.6	71.2	3.2	3.6	3.7	4.6	5.1	5.2
Wheeling <sup>1</sup> .....	80.4	81.2	80.1	3.8	5.5	5.3	4.7	6.7	6.6
WISCONSIN .....	2,342.3	2,415.9	2,430.1	105.6	94.3	112.3	4.5	3.9	4.6
Appleton—Oshkosh .....	150.3	154.5	155.5	7.2	5.8	6.8	4.8	3.8	4.4
Eau Claire .....	52.3	55.8	58.4	3.4	2.6	5.5	6.5	4.7	9.4
Green Bay .....	89.0	90.1	90.5	4.5	3.7	4.3	5.1	4.1	4.8
Kenosha .....	61.1	62.9	63.1	2.6	2.9	2.6	4.2	4.5	4.1
La Crosse .....	46.0	46.6	46.8	2.2	1.6	1.8	4.9	3.5	3.9
Madison .....	177.2	184.6	186.7	6.3	5.8	6.3	3.6	3.1	3.4
Milwaukee .....	727.7	745.0	751.9	26.2	25.7	28.6	3.6	3.5	3.8
Racine .....	88.6	90.8	91.6	3.9	3.6	4.4	4.3	3.9	4.8
WYOMING .....	220.0	230.0	230.3	8.8	5.1	6.9	4.0	2.2	3.0

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

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

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

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

p=preliminary.

N.A.=not available.

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

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

# HOUSEHOLD DATA HISTORICAL

## 1. Employment status of the noninstitutional population, 1929 to date

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonegricultural industries	Number	Percent of labor force	
Persons 14 years of age and over										
1929.....	(1)	49,440	(1)	49,180	47,630	10,450	37,180	1,550	3.2	(1)
1930.....	(1)	50,080	(1)	49,820	45,480	10,340	35,140	4,340	8.7	(1)
1931.....	(1)	50,680	(1)	50,420	42,400	10,290	32,110	8,020	15.9	(1)
1932.....	(1)	51,250	(1)	51,000	38,940	10,170	28,770	12,060	23.6	(1)
1933.....	(1)	51,840	(1)	51,590	38,760	10,090	28,670	12,830	24.9	(1)
1934.....	(1)	52,490	(1)	52,230	40,890	9,900	30,990	11,340	21.7	(1)
1935.....	(1)	53,140	(1)	52,870	42,260	10,110	32,150	10,610	20.1	(1)
1936.....	(1)	53,740	(1)	53,440	44,410	10,000	34,410	9,030	16.9	(1)
1937.....	(1)	54,320	(1)	54,000	46,300	9,820	36,480	7,700	14.3	(1)
1938.....	(1)	54,950	(1)	54,610	44,220	9,690	34,530	10,390	19.0	(1)
1939.....	(1)	55,600	(1)	55,230	45,750	9,610	36,140	9,480	17.2	(1)
1940.....	100,380	56,180	56.0	55,640	47,520	9,540	37,980	8,120	14.6	44,200
1941.....	101,520	57,530	56.7	55,910	50,350	9,100	41,250	5,560	9.9	43,990
1942.....	102,610	60,380	58.8	56,410	53,750	9,250	44,500	2,660	4.7	42,230
1943.....	103,660	64,560	62.3	55,540	54,470	9,080	45,390	1,070	1.9	39,100
1944.....	104,630	66,040	63.1	54,630	53,960	8,950	45,010	670	1.2	38,590
1945.....	105,530	65,300	61.9	53,860	52,820	8,580	44,240	1,040	1.9	40,230
1946.....	106,520	60,970	57.2	57,520	55,250	8,320	46,930	2,270	3.9	45,550
1947.....	107,608	61,758	57.4	60,168	57,812	8,256	49,557	2,356	3.9	45,850
Persons 16 years of age and over										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953 <sup>2</sup> .....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 <sup>2</sup> .....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 <sup>2</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>2</sup> .....	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 <sup>2</sup> .....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 <sup>2</sup> .....	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
1979.....	163,620	104,996	64.2	102,908	96,945	3,297	93,648	5,963	5.8	58,623

<sup>1</sup> Not available.

<sup>2</sup> Not strictly comparable with data for prior years. For an explanation, see "Historic Comparability" under Household Data section of Explanatory Notes.

# HOUSEHOLD DATA HISTORICAL

## 2. Employment status of the noninstitutional population, 16 years and over by sex, 1947 to date

[Numbers in thousands]

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	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
Males										
1947.....	50,968	44,258	86.8	42,686	40,995	6,643	34,352	1,692	4.0	6,710
1948.....	51,439	44,729	87.0	43,286	41,725	6,358	35,367	1,559	3.6	6,710
1949.....	51,922	45,097	86.9	43,498	40,925	6,343	34,583	2,572	5.9	6,825
1950.....	52,352	45,446	86.8	43,819	41,578	6,002	35,576	2,239	5.1	6,906
1951.....	52,788	46,063	87.3	43,001	41,780	5,534	36,246	1,221	2.8	6,725
1952.....	53,248	46,416	87.2	42,869	41,682	5,390	36,293	1,185	2.8	6,832
1953 <sup>1</sup> .....	54,248	47,131	86.9	43,633	42,430	5,253	37,177	1,202	2.8	7,117
1954.....	54,706	47,275	86.4	43,965	41,619	5,200	36,418	2,344	5.3	7,431
1955.....	55,122	47,488	86.2	44,475	42,621	5,265	37,356	1,854	4.2	7,634
1956.....	55,547	47,914	86.3	45,091	43,379	5,040	38,339	1,711	3.8	7,633
1957.....	56,082	47,964	85.5	45,197	43,357	4,824	38,532	1,841	4.1	8,118
1958.....	56,640	48,126	85.0	45,521	42,423	4,596	37,827	3,098	6.8	8,514
1959.....	57,312	48,405	84.5	45,886	43,466	4,532	38,934	2,420	5.2	8,907
1960.....	58,144	48,870	84.0	46,388	43,904	4,472	39,431	2,486	5.4	9,274
1961.....	58,826	49,193	83.6	46,653	43,656	4,298	39,359	2,997	6.4	9,633
1962.....	59,626	49,395	82.8	46,600	44,177	4,069	40,108	2,423	5.2	10,231
1963.....	60,627	49,835	82.2	47,129	44,657	3,809	40,849	2,472	5.2	10,792
1964.....	61,556	50,387	81.9	47,679	45,474	3,691	41,782	2,205	4.6	11,169
1965.....	62,473	50,946	81.5	48,255	46,340	3,547	42,792	1,914	4.0	11,527
1966.....	63,351	51,560	81.4	48,471	46,919	3,243	43,675	1,551	3.2	11,792
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.....	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 <sup>1</sup> .....	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979.....	78,397	61,466	78.4	59,517	56,499	2,645	53,854	3,018	5.1	16,931
Females										
1947.....	52,450	16,683	31.8	16,664	16,045	1,248	14,797	619	3.7	35,767
1948.....	53,088	17,351	32.7	17,335	16,617	1,271	15,346	717	4.1	35,737
1949.....	53,689	17,806	33.2	17,788	16,723	1,315	15,409	1,065	6.0	35,883
1950.....	54,293	18,412	33.9	18,389	17,340	1,159	16,181	1,049	5.7	35,881
1951.....	54,933	19,054	34.7	19,016	18,181	1,193	16,988	834	4.4	35,879
1952.....	55,575	19,314	34.8	19,269	18,568	1,111	17,458	698	3.6	36,261
1953 <sup>1</sup> .....	56,353	19,429	34.5	19,382	18,749	1,006	17,743	632	3.3	36,924
1954.....	56,965	19,718	34.6	19,678	18,490	1,006	17,486	1,188	6.0	37,247
1955.....	57,610	20,584	35.7	20,548	19,551	1,184	18,366	998	4.9	37,026
1956.....	58,264	21,495	36.9	21,461	20,419	1,244	19,175	1,039	4.8	36,769
1957.....	58,983	21,765	36.9	21,732	20,714	1,123	19,591	1,018	4.7	37,218
1958.....	59,723	22,149	37.1	22,118	20,613	990	19,623	1,504	6.8	37,574
1959.....	60,569	22,516	37.2	22,483	21,164	1,033	20,131	1,320	5.9	38,053
1960 <sup>1</sup> .....	61,615	23,272	37.8	23,240	21,874	986	20,887	1,366	5.9	38,343
1961.....	62,517	23,838	38.1	23,806	22,090	902	21,187	1,717	7.2	38,679
1962 <sup>1</sup> .....	63,355	24,047	38.0	24,014	22,525	875	21,651	1,488	6.2	39,308
1963.....	64,527	24,736	38.3	24,704	23,105	878	22,227	1,598	6.5	39,791
1964.....	65,668	25,443	38.7	25,412	23,831	832	23,000	1,581	6.2	40,225
1965.....	66,763	26,232	39.3	26,200	24,748	814	23,934	1,452	5.5	40,531
1966.....	67,829	27,333	40.3	27,299	25,976	736	25,240	1,324	4.8	40,496
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
1978 <sup>1</sup> .....	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
1979.....	85,223	43,531	51.1	43,391	40,446	652	39,794	2,945	6.8	41,692

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

# HOUSEHOLD DATA ANNUAL AVERAGES

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

[Numbers in thousands]

Sex, age, and race	1979										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over .....	61,466	78.4	59,517	56,499	3,018	5.1	16,931	363	3,613	1,742	11,214
16 to 21 years .....	8,869	69.7	8,219	7,108	1,111	13.5	3,854	23	2,976	31	824
16 to 19 years .....	5,309	63.0	5,031	4,236	795	15.8	3,124	17	2,458	15	634
16 to 17 years .....	2,160	51.8	2,145	1,761	384	17.9	2,010	12	1,612	7	379
18 to 19 years .....	3,149	73.9	2,886	2,475	411	14.2	1,114	5	846	8	255
20 to 64 years .....	54,229	89.9	52,558	50,403	2,156	4.1	6,118	148	1,151	1,249	3,569
20 to 24 years .....	8,983	87.6	8,239	7,534	705	8.6	1,275	14	847	46	368
25 to 54 years .....	38,105	94.5	37,180	35,923	1,257	3.4	2,200	77	297	647	1,178
25 to 29 years .....	8,600	95.0	8,236	7,836	400	4.9	455	9	187	52	207
30 to 34 years .....	7,802	96.2	7,556	7,297	259	3.4	305	9	56	75	164
35 to 39 years .....	6,331	96.4	6,140	5,958	182	3.0	238	11	25	74	129
40 to 44 years .....	5,284	95.3	5,197	5,056	141	2.7	262	7	13	99	142
45 to 49 years .....	5,061	93.4	5,031	4,901	129	2.6	356	21	10	128	197
50 to 54 years .....	5,027	39.6	5,021	4,874	146	2.9	564	19	7	219	340
55 to 64 years .....	7,141	73.0	7,140	6,946	193	2.7	2,642	57	6	555	2,024
55 to 59 years .....	4,404	82.2	4,403	4,285	118	2.7	953	25	4	286	638
60 to 64 years .....	2,737	61.8	2,737	2,661	76	2.8	1,690	32	3	270	1,385
65 years and over .....	1,928	20.0	1,928	1,861	67	3.5	7,689	198	4	477	7,010
65 to 69 years .....	1,124	29.6	1,124	1,077	47	4.1	2,668	61	2	180	2,425
70 years and over .....	804	13.8	804	784	20	2.5	5,021	137	2	297	4,586
White											
16 years and over .....	54,613	79.1	53,074	50,721	2,354	4.4	14,419	294	2,877	1,405	9,843
16 to 21 years .....	7,786	72.0	7,288	6,426	862	11.8	3,022	16	2,360	25	620
16 to 19 years .....	4,705	65.9	4,492	3,866	626	13.9	2,435	13	1,920	14	489
16 to 17 years .....	1,950	55.5	1,937	1,624	312	16.1	1,562	10	1,246	7	300
18 to 19 years .....	2,755	75.9	2,555	2,242	313	12.3	873	3	674	7	188
20 to 64 years .....	48,168	90.5	46,843	45,168	1,673	3.6	5,066	113	954	1,000	2,998
20 to 24 years .....	7,795	88.4	7,225	6,692	533	7.4	1,023	10	716	33	264
25 to 54 years .....	33,860	95.2	33,105	32,129	977	3.0	1,711	58	233	505	916
25 to 34 years .....	14,489	96.2	14,001	13,497	504	3.6	573	15	193	95	270
35 to 44 years .....	10,345	96.5	10,111	9,859	252	2.5	377	14	26	133	204
45 to 54 years .....	9,027	92.2	8,994	8,773	221	2.5	761	29	13	277	441
55 to 64 years .....	6,512	73.6	6,511	6,348	163	2.5	2,332	46	6	462	1,818
55 to 59 years .....	4,010	83.1	4,009	3,911	97	2.4	818	20	3	236	558
60 to 64 years .....	2,503	62.3	2,503	2,437	66	2.6	1,514	26	2	226	1,260
65 years and over .....	1,740	20.1	1,740	1,686	55	3.1	6,918	168	3	391	6,356
Black and other											
16 years and over .....	6,852	73.2	6,443	5,779	664	10.3	2,512	68	736	337	1,371
16 to 21 years .....	1,083	56.6	932	682	250	26.8	832	7	616	6	203
16 to 19 years .....	604	46.7	539	369	170	31.5	689	4	536	2	146
16 to 17 years .....	211	32.0	208	136	72	34.4	448	2	366	1	78
18 to 19 years .....	393	61.9	331	233	98	29.6	242	2	172	1	67
20 to 64 years .....	6,061	85.2	5,716	5,233	483	8.4	1,052	35	197	249	570
20 to 24 years .....	1,188	82.5	1,013	841	172	17.0	252	4	131	13	103
25 to 54 years .....	4,245	89.7	4,075	3,794	281	6.9	489	20	66	142	262
25 to 34 years .....	1,912	91.1	1,791	1,637	155	8.6	187	4	50	33	101
35 to 44 years .....	1,270	91.1	1,226	1,154	71	5.8	123	5	12	40	66
45 to 54 years .....	1,062	85.6	1,057	1,003	55	5.2	179	11	3	70	95
55 to 64 years .....	629	66.9	628	598	30	4.8	310	11	1	93	205
55 to 59 years .....	394	74.6	394	374	20	5.2	135	4	--	50	80
60 to 64 years .....	234	57.1	234	224	10	4.2	176	7	--	44	125
65 years and over .....	188	19.6	188	176	12	6.3	771	30	1	86	655

# HOUSEHOLD DATA ANNUAL AVERAGES

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

(Numbers in thousands)

		1979										
Sex, age, and race		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					
FEMALES												
16 years and over .....	43,531	51.1	43,391	40,446	2,945	6.8	41,692	32,057	3,566	1,126	4,944	
16 to 21 years .....	7,344	58.9	7,289	6,241	1,048	14.4	5,117	1,380	2,948	22	767	
16 to 19 years .....	4,504	54.6	4,481	3,748	733	16.4	3,743	655	2,475	13	600	
16 to 17 years .....	1,849	45.8	1,848	1,510	338	18.3	2,188	190	1,627	4	367	
18 to 19 years .....	2,655	63.1	2,633	2,238	394	15.0	1,555	466	846	8	232	
20 to 64 years .....	37,881	59.9	37,765	35,590	2,175	5.8	25,369	21,736	1,080	512	2,040	
20 to 24 years .....	7,100	69.3	7,029	6,358	672	9.6	3,144	2,072	712	27	332	
25 to 54 years .....	26,202	62.3	26,156	24,798	1,358	5.2	15,874	14,242	358	261	1,013	
25 to 29 years .....	6,066	65.8	6,034	5,611	422	7.0	3,157	2,797	154	23	183	
30 to 34 years .....	5,142	61.8	5,133	4,839	294	5.7	3,175	2,876	65	29	181	
35 to 39 years .....	4,377	63.4	4,375	4,154	220	5.0	2,530	2,290	59	30	152	
40 to 44 years .....	3,757	63.9	3,755	3,599	156	4.2	2,120	1,914	31	38	136	
45 to 49 years .....	3,450	60.4	3,449	3,314	135	3.9	2,266	2,045	16	49	156	
50 to 54 years .....	3,411	56.5	3,411	3,280	130	3.8	2,626	2,320	9	93	204	
55 to 64 years .....	4,579	41.9	4,579	4,434	145	3.2	6,352	5,422	11	223	695	
55 to 59 years .....	2,868	48.7	2,868	2,775	93	3.2	3,016	2,622	6	111	277	
60 to 64 years .....	1,711	33.9	1,711	1,659	52	3.1	3,335	2,800	4	113	418	
65 years and over .....	1,145	8.3	1,145	1,108	38	3.3	12,580	9,665	10	601	2,304	
65 to 69 years .....	725	15.3	725	699	26	3.6	4,015	3,263	5	113	634	
70 years and over .....	420	4.7	420	409	11	2.7	8,566	6,402	5	489	1,670	
White												
16 years and over .....	37,635	50.7	37,528	35,304	2,224	5.9	36,592	28,698	2,819	860	4,214	
16 to 21 years .....	6,467	61.6	6,424	5,647	778	12.1	4,028	1,081	2,339	15	593	
16 to 19 years .....	4,001	57.7	3,983	3,428	555	13.9	2,930	510	1,944	9	467	
16 to 17 years .....	1,661	49.1	1,660	1,396	264	15.9	1,721	146	1,276	4	294	
18 to 19 years .....	2,340	65.9	2,323	2,032	291	12.5	1,209	364	666	6	174	
20 to 64 years .....	32,626	59.5	32,537	30,899	1,638	5.0	22,232	19,283	866	375	1,707	
20 to 24 years .....	6,121	70.7	6,067	5,595	472	7.8	2,542	1,695	578	21	249	
25 to 54 years .....	22,418	61.6	22,382	21,339	1,043	4.7	13,957	12,645	279	187	846	
25 to 34 years .....	9,467	63.0	9,436	8,910	526	5.6	5,555	5,040	184	39	292	
35 to 44 years .....	6,966	63.0	6,963	6,668	295	4.2	4,087	3,718	73	49	248	
45 to 54 years .....	5,985	58.1	5,984	5,761	223	3.7	4,315	3,886	23	99	307	
55 to 64 years .....	4,087	41.6	4,087	3,965	122	3.0	5,732	4,944	9	167	612	
55 to 59 years .....	2,556	48.5	2,556	2,480	76	3.0	2,711	2,380	5	82	244	
60 to 64 years .....	1,531	33.6	1,531	1,485	46	3.0	3,021	2,564	4	85	368	
65 years and over .....	1,008	8.1	1,008	977	31	3.1	11,430	8,905	9	476	2,040	
Black and other												
16 years and over .....	5,895	53.6	5,863	5,141	722	12.3	5,100	3,358	747	266	729	
16 to 21 years .....	877	44.6	865	595	270	31.2	1,089	298	610	7	175	
16 to 19 years .....	503	38.2	497	320	178	35.7	813	145	532	4	132	
16 to 17 years .....	188	28.7	188	114	74	39.4	468	44	349	1	74	
18 to 19 years .....	315	47.7	309	206	103	33.4	345	101	183	3	59	
20 to 64 years .....	5,255	62.6	5,229	4,691	538	10.3	3,137	2,453	214	137	333	
20 to 24 years .....	978	61.9	962	763	200	20.8	601	327	134	6	83	
25 to 54 years .....	3,785	66.4	3,774	3,460	316	8.4	1,917	1,598	79	74	166	
25 to 34 years .....	1,741	69.1	1,731	1,541	190	11.0	777	633	55	13	72	
35 to 44 years .....	1,168	67.5	1,167	1,086	82	7.0	563	486	17	19	40	
45 to 54 years .....	876	60.3	876	833	43	4.9	577	479	2	43	53	
55 to 64 years .....	492	44.3	492	469	23	4.6	620	478	1	57	84	
55 to 59 years .....	312	50.5	312	295	16	5.2	305	242	1	29	33	
60 to 64 years .....	180	36.4	180	174	6	3.5	314	236	--	28	50	
65 years and over .....	137	10.6	137	131	6	4.6	1,150	760	1	125	264	



# HOUSEHOLD DATA ANNUAL AVERAGES

## 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	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>MALES</b>								
16 years and over	60,535	61,466	78.4	78.4	58,542	59,517	77.9	77.9
16 to 19 years	5,383	5,309	63.5	63.0	5,078	5,031	62.1	61.7
16 to 17 years	2,208	2,160	52.2	51.8	2,185	2,145	51.9	51.6
18 to 19 years	3,175	3,149	74.8	73.9	2,893	2,886	73.0	72.1
20 to 24 years	8,811	8,983	87.1	87.6	8,063	8,239	86.0	86.6
25 to 54 years	37,330	38,105	94.4	94.5	36,392	37,180	94.3	94.4
25 to 34 years	15,900	16,402	95.5	95.6	15,284	15,792	95.4	95.4
35 to 44 years	11,270	11,615	95.8	95.9	10,986	11,337	95.7	95.8
45 to 54 years	10,161	10,088	91.3	91.5	10,122	10,051	91.3	91.4
55 to 64 years	7,088	7,141	73.5	73.0	7,087	7,140	73.5	73.0
55 to 59 years	4,390	4,404	82.9	82.2	4,389	4,403	82.9	82.2
60 to 64 years	2,698	2,737	62.0	61.8	2,698	2,737	62.0	61.8
65 years and over	1,923	1,928	20.5	20.0	1,923	1,928	20.5	20.0
<b>White</b>								
16 years and over	53,867	54,613	79.1	79.1	52,258	53,074	78.6	78.6
16 to 19 years	4,767	4,705	66.3	65.9	4,525	4,492	65.1	64.8
16 to 17 years	1,988	1,950	55.6	55.5	1,969	1,937	55.3	55.3
18 to 19 years	2,779	2,755	76.8	75.9	2,556	2,555	75.3	74.5
20 to 24 years	7,688	7,795	88.1	88.4	7,100	7,225	87.2	87.6
25 to 54 years	33,232	33,860	95.1	95.2	32,454	33,105	95.0	95.1
25 to 34 years	14,074	14,489	96.1	96.2	13,570	14,001	96.0	96.1
35 to 44 years	10,033	10,345	96.4	96.5	9,794	10,111	96.3	96.4
45 to 54 years	9,125	9,027	92.2	92.2	9,091	8,994	92.1	92.2
55 to 64 years	6,455	6,512	73.9	73.6	6,454	6,511	73.9	73.6
55 to 59 years	3,993	4,010	83.6	83.1	3,992	4,009	83.6	83.1
60 to 64 years	2,463	2,503	62.2	62.3	2,462	2,503	62.2	62.3
65 years and over	1,725	1,740	20.4	20.1	1,725	1,740	20.4	20.1
<b>Black and other</b>								
16 years and over	6,667	6,852	73.3	73.2	6,284	6,443	72.1	71.9
16 to 19 years	616	604	48.0	46.7	553	539	45.4	43.9
16 to 17 years	220	211	33.5	32.0	216	208	33.2	31.7
18 to 19 years	396	393	63.2	61.9	337	331	55.5	57.8
20 to 24 years	1,124	1,188	80.5	82.5	963	1,013	78.0	80.1
25 to 54 years	4,098	4,245	89.6	89.7	3,938	4,075	89.2	89.3
25 to 34 years	1,826	1,912	91.4	91.1	1,714	1,791	90.9	90.6
35 to 44 years	1,236	1,270	91.3	91.1	1,192	1,226	91.0	90.9
45 to 54 years	1,035	1,062	84.6	85.6	1,031	1,057	84.5	85.5
55 to 64 years	632	629	69.1	66.9	632	628	69.1	66.9
55 to 59 years	397	394	76.5	74.6	397	394	76.5	74.6
60 to 64 years	236	234	59.4	57.1	236	234	59.4	57.1
65 years and over	198	188	21.3	19.6	198	188	21.3	19.6

**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	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>FEMALES</b>								
16 years and over . . . . .	42,002	43,531	50.1	51.1	41,878	43,391	50.0	51.0
16 to 19 years . . . . .	4,482	4,504	54.0	54.6	4,462	4,481	53.9	54.5
16 to 17 years . . . . .	1,866	1,849	45.5	45.8	1,865	1,848	45.5	45.8
18 to 19 years . . . . .	2,616	2,655	62.3	63.1	2,597	2,633	62.1	62.9
20 to 24 years . . . . .	6,926	7,100	68.5	69.3	6,860	7,029	68.3	69.1
25 to 54 years . . . . .	25,007	26,202	60.5	62.3	24,968	26,156	60.5	62.2
25 to 34 years . . . . .	10,580	11,208	62.2	63.9	10,546	11,167	62.1	63.8
35 to 44 years . . . . .	7,645	8,134	61.6	63.6	7,641	8,130	61.6	63.6
45 to 54 years . . . . .	6,782	6,861	57.1	58.4	6,781	6,860	57.1	58.4
55 to 64 years . . . . .	4,469	4,579	41.4	41.9	4,468	4,579	41.4	41.9
55 to 59 years . . . . .	2,825	2,868	46.6	46.7	2,825	2,868	46.6	46.7
60 to 64 years . . . . .	1,643	1,711	33.1	33.9	1,643	1,711	33.1	33.9
65 years and over . . . . .	1,120	1,145	8.4	8.3	1,120	1,145	8.4	8.3
<b>White</b>								
16 years and over . . . . .	36,298	37,635	49.6	50.7	36,198	37,528	49.5	50.6
16 to 19 years . . . . .	3,981	4,001	57.0	57.7	3,965	3,983	56.9	57.6
16 to 17 years . . . . .	1,684	1,661	48.9	49.1	1,683	1,660	48.9	49.1
18 to 19 years . . . . .	2,297	2,340	64.8	65.9	2,281	2,323	64.6	65.8
20 to 24 years . . . . .	5,958	6,121	69.5	70.7	5,906	6,067	69.3	70.5
25 to 54 years . . . . .	21,375	22,418	59.7	61.6	21,344	22,382	59.7	61.6
25 to 34 years . . . . .	8,931	9,467	61.1	63.0	8,904	9,436	61.0	62.9
35 to 44 years . . . . .	6,518	6,966	60.8	63.0	6,515	6,963	60.7	63.0
45 to 54 years . . . . .	5,926	5,985	56.7	58.1	5,925	5,984	56.7	58.1
55 to 64 years . . . . .	3,997	4,087	41.2	41.6	3,997	4,087	41.2	41.6
55 to 59 years . . . . .	2,528	2,556	48.5	48.5	2,528	2,556	48.5	48.5
60 to 64 years . . . . .	1,469	1,531	32.7	33.6	1,469	1,531	32.7	33.6
65 years and over . . . . .	986	1,008	8.1	8.1	986	1,008	8.1	8.1
<b>Black and other</b>								
16 years and over . . . . .	5,705	5,895	53.5	53.6	5,679	5,863	53.3	53.5
16 to 19 years . . . . .	500	503	38.3	38.2	497	497	38.1	38.0
16 to 17 years . . . . .	182	188	27.7	28.7	182	188	27.7	28.7
18 to 19 years . . . . .	319	315	48.9	47.7	315	309	48.6	47.3
20 to 24 years . . . . .	967	978	63.1	61.9	954	962	62.8	61.6
25 to 54 years . . . . .	3,632	3,785	66.0	66.4	3,624	3,774	65.9	66.3
25 to 34 years . . . . .	1,649	1,741	68.8	69.1	1,642	1,731	68.7	69.0
35 to 44 years . . . . .	1,127	1,168	67.2	67.5	1,126	1,167	67.1	67.5
45 to 54 years . . . . .	856	876	59.8	60.3	856	876	59.8	60.3
55 to 64 years . . . . .	472	492	43.6	44.3	472	492	43.6	44.3
55 to 59 years . . . . .	297	312	49.4	50.5	297	312	49.4	50.5
60 to 64 years . . . . .	174	180	36.4	36.4	174	180	36.4	36.4
65 years and over . . . . .	134	137	10.7	10.6	134	137	10.7	10.6

# HOUSEHOLD DATA ANNUAL AVERAGES

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

[Numbers in thousands]

Sex and age	1979						Not in labor force
	Civilian labor force						
	Total	Employed			Unemployed		
		Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
TOTAL							
16 years and over .....	10,430	9,160	241	8,919	1,269	12.2	6,596
16 to 19 years .....	886	563	19	543	323	36.5	1,335
16 to 17 years .....	336	201	10	191	135	40.2	817
18 to 19 years .....	551	362	10	352	189	34.3	517
20 to 24 years .....	1,699	1,353	26	1,328	346	20.4	727
25 to 54 years .....	6,592	6,054	138	5,917	538	8.2	2,007
25 to 34 years .....	2,935	2,621	49	2,572	313	10.7	769
35 to 44 years .....	2,034	1,896	47	1,849	138	6.8	578
45 to 54 years .....	1,623	1,537	41	1,496	86	5.3	660
55 to 64 years .....	966	919	33	886	47	4.9	841
55 to 59 years .....	600	568	15	552	32	5.4	396
60 to 64 years .....	366	351	18	333	15	4.1	445
65 years and over .....	286	271	25	246	15	5.4	1,687
Males							
16 years and over .....	5,446	4,836	204	4,632	609	11.2	2,188
16 to 19 years .....	464	306	16	289	158	34.1	607
16 to 17 years .....	177	110	9	101	67	37.9	399
18 to 19 years .....	288	196	8	188	92	31.9	207
20 to 24 years .....	870	710	21	690	160	18.4	207
25 to 54 years .....	3,418	3,163	117	3,047	255	7.5	425
25 to 34 years .....	1,486	1,345	42	1,303	140	9.4	151
35 to 44 years .....	1,040	974	40	934	66	6.3	110
45 to 54 years .....	892	844	34	810	48	5.4	164
55 to 64 years .....	533	507	28	479	27	5.1	290
55 to 59 years .....	332	314	13	300	18	5.4	127
60 to 64 years .....	202	192	15	178	9	4.5	162
65 years and over .....	160	150	22	128	10	6.3	660
Females							
16 years and over .....	4,984	4,324	37	4,287	660	13.2	4,408
16 to 19 years .....	422	257	3	254	165	39.2	728
16 to 17 years .....	159	91	1	90	68	42.9	418
18 to 19 years .....	263	166	2	164	97	36.9	310
20 to 24 years .....	829	643	5	638	186	22.4	520
25 to 54 years .....	3,174	2,891	21	2,870	283	8.9	1,582
25 to 34 years .....	1,449	1,276	7	1,269	173	11.9	618
35 to 44 years .....	994	922	7	915	72	7.2	468
45 to 54 years .....	731	693	7	686	38	5.2	496
55 to 64 years .....	433	412	5	407	20	4.7	551
55 to 59 years .....	268	254	2	252	14	5.4	269
60 to 64 years .....	164	159	3	155	6	3.6	283
65 years and over .....	126	121	3	118	5	3.9	1,027

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

# HOUSEHOLD DATA ANNUAL AVERAGES

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>TOTAL</b>								
Total noninstitutional population	161,058	163,620	68,693	69,964	75,594	76,976	16,771	16,681
Total labor force	102,537	104,996	55,152	56,157	37,521	39,026	5,864	5,813
Percent of population	63.7	64.2	80.3	80.3	49.6	50.7	58.8	58.8
Civilian labor force	100,420	102,908	53,464	54,486	37,416	38,910	5,540	5,512
Employed	94,373	96,945	51,212	52,264	35,180	36,698	7,981	7,984
Agriculture	3,342	3,297	2,361	2,350	586	591	395	356
Nonagricultural industries	91,031	93,648	48,852	49,913	34,593	36,107	7,566	7,628
Unemployed	6,047	5,963	2,252	2,223	2,236	2,213	1,559	1,528
Percent of labor force	6.0	5.8	4.2	4.1	6.0	5.7	16.3	16.1
Not in labor force	58,521	58,623	13,541	13,807	38,073	37,949	6,907	6,867
<b>White</b>								
Total noninstitutional population	141,289	143,260	60,877	61,892	66,229	67,296	14,183	14,072
Total labor force	90,165	92,249	49,100	49,908	32,316	33,634	8,748	8,707
Percent of population	63.8	64.4	80.7	80.6	48.8	50.0	61.7	61.9
Civilian labor force	88,456	90,602	47,733	48,583	32,233	33,545	8,490	8,475
Employed	83,836	86,025	45,977	46,854	30,547	31,876	7,312	7,295
Agriculture	3,034	2,999	2,120	2,122	545	546	369	332
Nonagricultural industries	80,802	83,026	43,857	44,733	30,002	31,330	6,943	6,963
Unemployed	4,620	4,577	1,757	1,728	1,686	1,669	1,178	1,181
Percent of labor force	5.2	5.1	3.7	3.6	5.2	5.0	13.9	13.9
Not in labor force	51,124	51,011	11,777	11,984	33,913	33,662	5,435	5,365
<b>Black and other</b>								
Total noninstitutional population	19,769	20,359	7,816	8,071	9,365	9,680	2,588	2,609
Total labor force	12,372	12,747	6,052	6,249	5,204	5,392	1,116	1,106
Percent of population	62.6	62.6	77.4	77.4	55.6	55.7	43.1	42.4
Civilian labor force	11,964	12,306	5,731	5,904	5,182	5,366	1,050	1,036
Employed	10,537	10,920	5,236	5,409	4,632	4,822	669	689
Agriculture	308	298	241	229	41	45	26	24
Nonagricultural industries	10,229	10,622	4,995	5,180	4,591	4,777	643	665
Unemployed	1,427	1,386	495	495	550	544	381	347
Percent of labor force	11.9	11.3	8.6	8.4	10.6	10.1	36.3	33.5
Not in labor force	7,397	7,612	1,765	1,823	4,160	4,287	1,472	1,502

# HOUSEHOLD DATA ANNUAL AVERAGES

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

[Numbers in thousands]

Employment status	1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
<b>TOTAL</b>									
Total noninstitutional population .....	25,184	12,723	12,461	21,303	10,808	10,495	3,881	1,915	1,966
Total labor force .....	16,213	8,869	7,344	14,253	7,786	6,467	1,960	1,083	877
Percent of population .....	64.4	69.7	58.9	66.9	72.0	61.6	50.5	56.6	44.6
Civilian labor force .....	15,508	8,219	7,289	13,712	7,288	6,424	1,796	932	865
Employed .....	13,349	7,108	6,241	12,072	6,426	5,647	1,277	682	595
Agriculture .....	525	433	92	488	402	86	37	31	7
Nonagricultural industries .....	12,824	6,675	6,149	11,584	6,024	5,561	1,239	651	588
Unemployed .....	2,159	1,111	1,048	1,639	862	778	520	250	270
Looking for full-time work .....	1,378	727	651	1,010	548	462	368	179	189
Looking for part-time work .....	781	385	397	630	314	316	152	71	81
Percent of labor force .....	13.9	13.5	14.4	12.0	11.8	12.1	28.9	26.8	31.2
Not in labor force .....	8,971	3,854	5,117	7,050	3,022	4,028	1,921	832	1,089
Major activity: going to school									
Civilian labor force .....	3,428	1,767	1,661	3,086	1,599	1,487	342	168	174
Employed .....	2,807	1,434	1,372	2,594	1,331	1,264	212	104	109
Agriculture .....	113	97	16	111	95	16	2	2	--
Nonagricultural industries .....	2,694	1,338	1,356	2,484	1,236	1,248	210	102	108
Unemployed .....	621	332	289	491	268	223	130	64	66
Looking for full-time work .....	83	42	41	56	29	27	27	13	14
Looking for part-time work .....	538	290	248	435	239	196	103	51	52
Percent of labor force .....	18.1	18.8	17.4	15.9	16.8	15.0	38.0	38.3	37.7
Not in labor force .....	5,924	2,976	2,948	4,699	2,360	2,339	1,226	616	610
Major activity: other									
Civilian labor force .....	12,081	6,453	5,628	10,626	5,689	4,937	1,454	764	690
Employed .....	10,543	5,674	4,869	9,478	5,095	4,383	1,064	578	486
Agriculture .....	412	336	76	378	308	70	35	29	6
Nonagricultural industries .....	10,130	5,337	4,793	9,100	4,787	4,313	1,030	550	480
Unemployed .....	1,538	779	759	1,148	594	554	390	185	204
Looking for full-time work .....	1,255	684	610	954	519	435	341	165	176
Looking for part-time work .....	283	95	148	195	75	119	49	20	29
Percent of labor force .....	12.7	12.1	13.5	10.8	10.4	11.2	26.8	24.3	29.6
Not in labor force .....	3,047	878	2,169	2,351	662	1,690	696	216	480

# HOUSEHOLD DATA ANNUAL AVERAGES

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

[Numbers in thousands]

Race, sex, and age	1979								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time <sup>1</sup>	Unemployed (looking for part-time work)	
		Full- time schedules <sup>1</sup>	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
<b>TOTAL</b>									
Both sexes, 16 years and over	87,741	79,624	3,478	4,639	5.3	15,167	13,843	1,325	8.7
16 to 21 years	10,125	7,776	971	1,378	13.6	5,384	4,602	781	14.5
16 to 19 years	5,159	3,660	651	847	16.4	4,353	3,672	681	15.6
16 to 17 years	1,235	734	260	241	19.5	2,758	2,277	481	17.4
18 to 19 years	3,924	2,926	392	606	15.4	1,595	1,395	200	12.5
20 years and over	82,582	75,964	2,826	3,792	4.6	10,814	10,171	644	6.0
20 to 24 years	13,287	11,393	706	1,189	8.9	1,981	1,793	188	9.5
25 years and over	69,295	64,572	2,121	2,603	3.8	8,633	8,378	455	5.2
25 to 54 years	57,420	53,454	1,681	2,285	4.0	5,917	5,586	331	5.6
55 years and over	11,875	11,118	435	318	2.7	2,916	2,793	124	4.3
<b>Males, 16 years and over</b>	54,686	50,596	1,590	2,501	4.6	4,831	4,314	518	10.7
16 to 21 years	5,671	4,463	482	727	12.8	2,548	2,163	385	15.1
16 to 19 years	2,909	2,127	332	451	15.5	2,122	1,777	345	16.2
20 years and over	51,777	48,469	1,257	2,050	4.0	2,710	2,537	173	6.4
20 to 24 years	7,477	6,510	334	633	8.5	761	690	72	9.4
25 years and over	44,300	41,960	923	1,417	3.2	1,948	1,847	102	5.2
25 to 54 years	36,454	34,529	708	1,217	3.3	727	685	42	5.8
55 years and over	7,846	7,431	214	200	2.5	1,221	1,162	60	4.9
<b>Females, 16 years and over</b>	33,055	29,028	1,888	2,138	6.5	10,336	9,529	807	7.8
16 to 21 years	4,453	3,313	489	651	14.6	2,836	2,439	397	14.0
16 to 19 years	2,249	1,534	319	396	17.6	2,232	1,855	336	15.1
20 years and over	30,806	27,495	1,569	1,742	5.7	8,105	7,634	471	5.8
20 to 24 years	5,810	4,883	371	555	9.6	1,220	1,103	117	9.6
25 years and over	24,996	22,612	1,198	1,186	4.7	6,885	6,532	354	5.1
25 to 54 years	20,966	18,925	973	1,068	5.1	5,190	4,901	290	5.6
55 years and over	4,030	3,687	225	118	2.9	1,695	1,630	64	3.8
<b>White</b>									
<b>Males, 16 years and over</b>	48,770	45,517	1,320	1,933	4.0	4,304	3,884	421	9.8
16 to 21 years	4,996	4,040	408	548	11.0	2,292	1,978	314	13.7
16 to 19 years	2,580	1,952	283	346	13.4	1,912	1,632	280	14.6
20 years and over	46,191	43,565	1,038	1,588	3.4	2,392	2,252	140	5.9
20 to 24 years	6,552	5,802	277	474	7.2	673	614	59	8.8
25 years and over	39,638	37,763	761	1,114	2.8	1,719	1,638	82	4.8
25 to 54 years	32,492	30,961	585	946	2.9	613	582	31	5.1
55 years and over	7,146	6,802	176	168	2.4	1,106	1,056	50	4.5
<b>Females, 16 years and over</b>	28,139	25,037	1,545	1,557	5.5	9,389	8,723	667	7.1
16 to 21 years	3,869	2,987	420	462	11.9	2,555	2,240	316	12.4
16 to 19 years	1,976	1,407	279	289	14.6	2,007	1,742	266	13.2
20 years and over	26,163	23,629	1,266	1,268	4.8	7,382	6,981	401	5.4
20 to 24 years	4,965	4,284	303	377	7.6	1,102	1,007	95	8.6
25 years and over	21,199	19,345	962	891	4.2	6,280	5,974	306	4.9
25 to 54 years	17,586	16,005	788	793	4.5	4,797	4,546	251	5.2
55 years and over	3,612	3,340	174	99	2.7	1,483	1,428	55	3.7
<b>Black and other</b>									
<b>Males, 16 years and over</b>	5,916	5,079	269	567	9.6	527	430	97	18.4
16 to 21 years	676	423	74	179	26.5	256	185	71	27.7
16 to 19 years	330	175	49	105	31.9	209	145	65	30.8
20 years and over	5,586	4,904	220	462	8.3	318	285	32	10.2
20 to 24 years	925	708	58	160	17.3	69	76	12	14.0
25 years and over	4,662	4,197	163	303	6.5	229	209	20	8.7
25 to 54 years	3,961	3,568	123	270	6.8	114	103	10	8.8
55 years and over	701	629	39	32	4.6	116	106	10	8.6
<b>Females, 16 years and over</b>	4,916	3,992	343	581	11.8	947	807	140	14.8
16 to 21 years	584	325	69	189	32.4	281	200	81	28.8
16 to 19 years	273	126	40	107	39.2	224	154	70	31.4
20 years and over	4,643	3,866	303	474	10.2	723	653	70	9.7
20 to 24 years	845	599	68	178	21.1	118	96	22	18.5
25 years and over	3,798	3,267	235	297	7.8	605	556	49	8.1
25 to 54 years	3,380	2,920	185	277	8.2	394	355	39	9.9
55 years and over	418	348	50	20	4.8	211	202	10	4.7

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

# HOUSEHOLD DATA ANNUAL AVERAGES

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

[Numbers in thousands]

Family relationship	1979									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over .....	102,908	63.7	96,945	5,963	5.8	58,623	32,419	7,179	2,868	16,157
Husbands <sup>1</sup> .....	40,955	81.4	39,832	1,123	2.7	9,337	162	191	1,170	7,815
With employed wife .....	20,638	91.9	20,141	497	2.4	1,814	40	102	377	1,296
With unemployed wife .....	1,094	93.3	991	103	9.4	77	2	5	23	47
With wife not in labor force .....	17,545	71.7	17,099	447	2.5	6,942	92	64	697	6,089
Wives .....	23,625	49.1	22,453	1,172	5.0	24,488	22,269	261	280	1,678
With employed husband .....	21,132	55.3	20,141	991	4.7	17,099	15,900	223	96	879
With unemployed husband .....	601	57.4	497	103	17.1	447	415	8	6	17
With husband not in labor force .....	1,891	21.4	1,814	77	4.1	6,942	5,954	30	176	782
Relatives in husband-wife families .....	14,367	62.4	12,671	1,696	11.8	8,639	1,340	4,891	367	2,042
16-19 years .....	6,797	58.0	5,825	972	14.3	4,919	203	3,804	17	895
20-24 years .....	4,919	76.3	4,418	501	10.2	1,528	175	998	39	316
25 years and over .....	2,651	54.7	2,428	223	8.4	2,192	962	89	311	831
Women who head families .....	4,993	59.3	4,581	413	8.3	3,424	2,722	99	161	442
Relatives in female-headed families .....	4,168	56.6	3,450	718	17.2	3,190	812	1,195	269	914
16-19 years .....	1,413	51.7	1,046	367	26.0	1,322	96	953	9	262
20-24 years .....	1,243	72.6	1,035	209	16.8	468	110	201	17	140
25 years and over .....	1,512	51.9	1,369	142	9.4	1,400	606	41	243	512
Persons not living in families <sup>2</sup> .....	14,800	60.8	13,958	841	5.7	9,545	5,114	542	621	3,266

<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.

## 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	
	1978	1979	1978	1979	1978	1979	1978	1979
Total, 16 years and over .....	3,051	3,018	5.2	5.1	2,996	2,945	7.2	6.8
Married, spouse present .....	1,106	1,101	2.8	2.7	1,274	1,224	5.5	5.1
Widowed, divorced, or separated .....	295	302	6.5	6.5	543	540	6.9	6.7
Single (never married) .....	1,650	1,615	11.6	11.0	1,179	1,181	10.9	10.4
White, 16 years and over .....	2,365	2,354	4.5	4.4	2,255	2,224	6.2	5.9
Married, spouse present .....	935	920	2.6	2.5	1,063	1,040	5.1	4.8
Widowed, divorced, or separated .....	210	215	5.8	5.7	385	388	6.1	6.0
Single (never married) .....	1,221	1,219	9.9	9.6	807	796	8.8	8.3
Black and other, 16 years and over .....	686	664	10.9	10.3	741	722	13.1	12.3
Married, spouse present .....	171	181	4.8	5.0	211	185	8.7	7.4
Widowed, divorced, or separated .....	85	88	9.8	9.8	158	152	10.1	9.6
Single (never married) .....	429	396	22.9	20.3	372	385	21.9	21.4
Total, 20 to 64 years of age .....	2,171	2,156	4.2	4.1	2,193	2,175	6.0	5.8
Married, spouse present .....	1,028	1,033	2.7	2.7	1,184	1,134	5.3	4.9
Widowed, divorced, or separated .....	274	281	6.4	6.4	506	502	7.1	6.8
Single (never married) .....	869	841	9.3	8.6	503	538	7.5	7.5
White, 20 to 64 years of age .....	1,690	1,673	3.7	3.6	1,650	1,638	5.3	5.0
Married, spouse present .....	867	860	2.5	2.5	985	958	4.9	4.6
Widowed, divorced, or separated .....	196	200	5.7	5.6	355	358	6.2	6.1
Single (never married) .....	628	613	7.9	7.3	310	322	5.6	5.5
Black and other, 20 to 64 years of age .....	481	483	8.7	8.4	544	538	10.8	10.3
Married, spouse present .....	163	174	4.8	5.0	199	176	8.4	7.3
Widowed, divorced, or separated .....	79	81	9.6	9.6	152	145	10.4	9.7
Single (never married) .....	240	227	18.1	16.0	194	217	15.8	16.4

# HOUSEHOLD DATA ANNUAL AVERAGES

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	1978	1979	1978	1979	1978	1979	1978	1979
Total, 16 years and over	6,047	5,963	6.0	5.8	5.2	5.1	7.2	6.8
White-collar workers	1,717	1,703	3.5	3.3	2.3	2.2	4.6	4.3
Professional and technical	381	373	2.6	2.4	2.0	1.8	3.5	3.3
Managers and administrators, except farm	214	225	2.1	2.1	1.7	1.7	3.4	3.4
Sales workers	256	252	4.1	3.9	3.0	2.8	5.5	5.3
Clerical workers	866	853	4.9	4.6	4.1	3.8	5.1	4.8
Blue-collar workers	2,323	2,377	6.9	6.9	6.2	6.2	9.7	9.7
Craft and kindred workers	603	604	4.6	4.5	4.6	4.4	6.0	5.0
Carpenters and other construction craft	322	308	7.9	7.3	7.8	7.3	12.5	9.4
All other	281	296	3.2	3.2	3.0	3.1	5.4	4.5
Operatives, except transport	960	1,000	8.1	8.4	6.5	6.9	10.4	10.6
Transport equipment operatives	19	206	5.2	5.4	5.1	5.4	7.4	5.0
Nonfarm laborers	566	566	10.7	10.8	10.8	10.8	9.8	11.0
Construction laborers	172	185	16.1	17.4	16.1	17.1	(1)	(1)
All other	394	381	9.3	9.1	9.3	9.0	9.6	10.1
Service workers	1,029	980	7.4	7.1	6.6	6.6	7.8	7.4
Private household	63	54	5.1	4.8	(1)	(1)	5.0	4.8
All other	966	925	7.6	7.3	6.8	6.6	8.2	7.8
Farm workers	110	106	3.8	3.8	2.9	3.0	7.5	7.0
No previous work experience	868	798	--	--	--	--	--	--
18 to 19 years	652	590	--	--	--	--	--	--
20 to 24 years	142	131	--	--	--	--	--	--
25 years and over	73	77	--	--	--	--	--	--

<sup>1</sup> Percent not shown where base is less than 35,000.

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

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	1978	1979	1978	1979	1978	1979	1978	1979
Total, 16 years and over	100.0	100.0	6.0	5.8	5.2	5.1	7.2	6.8
Nonagricultural private wage and salary workers	71.5	72.7	5.9	5.7	5.2	5.2	6.8	6.5
Mining	.6	.7	4.1	4.9	4.2	5.0	3.6	4.3
Construction	8.5	8.8	10.6	10.2	10.8	10.4	7.7	7.5
Manufacturing	20.0	21.3	5.5	5.5	4.2	4.4	8.2	8.0
Durable goods	10.7	11.5	4.9	5.0	4.1	4.4	7.4	6.6
Lumber and wood products	.9	.7	7.7	6.3	7.5	6.3	9.2	6.2
Furniture and fixtures	.5	.6	5.8	6.1	4.9	6.1	7.6	6.2
Stone, clay, and glass products	.6	.7	5.5	5.7	4.7	5.0	8.5	8.7
Primary metal industries	.9	.9	4.2	4.1	3.9	4.0	6.3	5.2
Fabricated metal products	1.3	1.5	5.4	5.9	4.6	5.3	8.0	8.2
Machinery, except electrical equipment	1.4	1.5	3.3	3.1	2.9	2.8	5.2	4.5
Electrical equipment	1.9	1.8	5.1	4.4	3.1	3.3	7.6	5.8
Transportation equipment	1.6	2.4	4.3	6.1	4.0	5.7	5.9	8.1
Automobiles	.9	1.7	4.1	7.4	4.0	7.0	4.9	9.3
Other transportation equipment	.7	.8	4.6	4.4	4.1	4.0	7.0	6.5
Instruments and related products	.4	.4	4.4	4.2	2.5	2.6	6.8	6.0
Other durable goods industries	1.1	.9	8.5	7.4	6.3	5.7	11.0	9.6
Nondurable goods	9.4	9.8	6.3	6.4	4.4	4.3	9.0	9.4
Food and kindred products	2.4	2.6	7.4	8.0	5.7	5.4	11.2	13.8
Textile mill products	.9	.9	6.0	6.4	4.8	4.0	7.3	9.0
Apparel and other textile products	2.1	2.3	9.3	9.8	7.5	8.0	5.8	10.3
Paper and allied products	.5	.5	4.5	3.9	3.2	2.8	8.6	7.5
Printing and publishing	1.2	1.2	4.9	4.6	4.1	4.1	6.1	5.4
Chemicals and allied products	.5	.7	2.7	3.5	1.8	2.8	5.4	5.4
Rubber and plastics products	.9	.9	7.5	6.7	5.2	4.2	11.3	11.0
Other nondurable goods industries	.7	.8	6.9	6.9	4.0	5.2	10.7	10.2
Transportation and public utilities	3.2	3.4	3.7	3.7	3.5	3.4	4.4	4.5
Railroads and railway express	.3	.2	3.5	1.8	3.5	1.9	3.7	--
Other transportation	2.1	2.4	5.1	5.5	4.9	5.2	5.8	6.4
Communication and other public utilities	.8	.8	2.2	2.0	1.4	1.3	3.5	3.4
Wholesale and retail trade	20.9	20.3	6.9	6.5	5.6	5.4	8.3	7.7
Finance, insurance, and real estate	2.6	2.7	3.1	3.0	2.7	2.3	3.4	3.5
Service industries	15.7	15.5	5.7	5.4	5.2	5.1	6.0	5.6
Professional services	6.7	6.7	4.3	4.1	3.6	3.3	4.6	4.4
All other service industries	9.0	8.7	7.6	7.3	6.6	6.7	8.4	7.8
Agricultural wage and salary workers	2.2	2.4	8.8	9.1	7.2	7.7	14.5	14.0
All other classes of workers	11.8	11.5	2.9	2.8	2.4	2.2	3.5	3.4
No previous work experience	14.3	13.4	--	--	--	--	--	--



# HOUSEHOLD DATA ANNUAL AVERAGES

## 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	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
<b>UNEMPLOYMENT LEVEL</b>												
Total unemployed, in thousands...	6,047	5,963	2,252	2,223	2,236	2,213	1,559	1,528	4,620	4,577	1,427	1,386
Job losers.....	2,514	2,555	1,387	1,413	831	827	296	314	1,972	1,993	542	562
On layoff.....	698	835	387	462	248	291	64	83	593	694	105	142
Other job losers.....	1,816	1,720	1,000	951	583	536	232	231	1,379	1,299	437	420
Job leavers.....	851	854	326	313	362	360	164	181	709	715	142	139
Reentrants.....	1,814	1,758	456	429	909	885	448	444	1,348	1,314	467	444
New entrants.....	867	797	82	68	134	140	651	589	591	555	276	242
<b>PERCENT DISTRIBUTION</b>												
Total unemployed.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers.....	41.5	42.8	61.6	63.6	37.2	37.3	19.0	20.5	42.6	43.6	38.0	40.5
On layoff.....	11.5	14.0	17.2	20.8	11.1	13.1	4.1	5.4	12.8	15.2	7.3	10.2
Other job losers.....	30.0	28.8	44.4	42.8	26.1	24.2	14.9	15.1	29.6	28.4	30.7	30.3
Job leavers.....	14.1	14.3	14.5	14.1	16.2	16.3	10.5	11.8	15.4	15.6	9.9	10.0
Reentrants.....	30.0	29.5	20.3	19.3	40.7	40.0	28.8	29.0	29.2	28.7	32.7	32.0
New entrants.....	14.3	13.4	3.6	3.0	6.0	6.3	41.8	38.6	12.8	12.1	19.4	17.4
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate.....	6.0	5.8	4.2	4.1	6.0	5.7	16.3	16.1	5.2	5.1	11.9	11.3
Job losers rate <sup>1</sup> .....	2.5	2.5	2.6	2.5	2.3	2.1	3.1	3.3	2.3	2.2	4.6	4.6
Job leaver rate <sup>1</sup> .....	.8	.8	.6	.6	1.0	.9	1.7	1.9	.8	.8	1.2	1.1
Reentrant rate <sup>1</sup> .....	1.8	1.7	.9	.8	2.4	2.3	4.7	4.7	1.5	1.5	3.9	3.6
New entrant rate <sup>1</sup> .....	.9	.8	.2	.1	.4	.4	6.8	6.2	.7	.6	2.3	2.0

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

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

(Percent distribution)

Reason, sex, and age	1979						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
Total, 16 years and over.....	5,963	100.0	48.1	31.7	20.2	11.5	8.7
Job losers.....	2,555	100.0	41.0	33.7	25.3	14.7	10.6
On layoff.....	835	100.0	55.0	30.8	14.1	10.3	3.9
Other job losers.....	1,720	100.0	34.2	35.1	30.7	16.9	13.8
Job leavers.....	854	100.0	49.8	32.5	17.7	10.0	7.7
Reentrants.....	1,758	100.0	54.6	29.1	16.3	9.0	7.3
New entrants.....	797	100.0	54.6	30.4	15.0	6.2	6.8
Males, 20 years and over.....	2,223	100.0	40.3	32.8	26.8	14.5	12.2
Job losers.....	1,413	100.0	38.0	33.1	28.9	16.5	12.4
On layoff.....	462	100.0	53.2	31.4	15.5	11.6	3.9
Other job losers.....	951	100.0	30.6	34.0	35.4	18.8	16.6
Job leavers.....	313	100.0	43.8	34.6	21.7	11.0	10.7
Reentrants.....	429	100.0	45.7	30.9	23.4	11.2	12.2
New entrants.....	68	100.0	40.0	31.6	28.4	12.5	15.8
Females, 20 years and over.....	2,213	100.0	49.0	31.3	19.7	11.4	8.3
Job losers.....	827	100.0	40.9	34.9	24.2	14.4	9.9
On layoff.....	291	100.0	54.8	30.6	14.6	10.1	4.5
Other job losers.....	536	100.0	33.3	37.2	29.5	16.7	12.7
Job leavers.....	360	100.0	49.1	31.3	19.6	11.5	8.1
Reentrants.....	885	100.0	56.1	28.4	15.4	8.8	6.7
New entrants.....	140	100.0	52.0	28.7	19.3	9.7	9.6
Both sexes, 16 to 19 years.....	1,528	100.0	58.1	30.6	11.2	7.1	4.1
Job losers.....	314	100.0	55.3	33.1	11.7	7.7	3.9
On layoff.....	83	100.0	66.1	28.9	5.0	3.5	1.5
Other job losers.....	231	100.0	51.3	34.6	14.1	9.3	4.8
Job leavers.....	181	100.0	61.7	31.1	7.2	5.1	2.0
Reentrants.....	444	100.0	60.3	28.7	11.0	7.3	3.7
New entrants.....	589	100.0	56.9	30.7	12.5	7.3	5.1

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

Sex, age, and race	1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over . . . . .	5,963	5,015	26.5	6.4	71.1	30.0	13.6	6.5	1.54
16 to 19 years . . . . .	1,528	1,420	19.2	3.2	77.4	23.9	13.0	5.1	1.42
20 to 24 years . . . . .	1,377	1,162	29.4	7.3	72.2	31.8	12.7	5.2	1.59
25 to 34 years . . . . .	1,375	1,108	30.7	8.3	68.8	35.1	14.0	6.3	1.63
35 to 44 years . . . . .	700	555	30.8	8.5	67.7	31.5	13.9	7.6	1.60
45 to 54 years . . . . .	542	420	28.3	6.7	66.4	30.5	15.0	9.3	1.56
55 to 64 years . . . . .	336	266	25.6	6.8	60.2	28.9	14.7	12.8	1.49
65 years and over . . . . .	104	86	17.4	3.5	60.5	33.7	19.8	7.0	1.42
Males, 16 years and over . . . . .	3,018	2,442	28.5	6.5	72.2	27.8	16.2	7.9	1.59
16 to 19 years . . . . .	795	728	19.9	3.2	78.4	22.1	15.0	4.9	1.44
20 to 24 years . . . . .	705	567	31.4	6.7	73.5	29.5	14.8	6.2	1.62
25 to 34 years . . . . .	659	488	35.2	9.4	69.5	34.4	18.0	8.0	1.75
35 to 44 years . . . . .	323	244	35.7	9.8	68.9	28.7	17.2	10.2	1.70
45 to 54 years . . . . .	276	208	32.2	7.2	68.3	26.4	17.8	13.5	1.65
55 to 64 years . . . . .	193	149	25.5	6.7	59.1	25.5	16.1	16.8	1.50
65 years and over . . . . .	67	57	17.5	3.5	64.9	35.1	19.3	8.8	1.49
Females, 16 years and over . . . . .	2,945	2,574	24.5	6.3	70.1	32.2	11.2	5.1	1.49
16 to 19 years . . . . .	733	692	18.5	3.5	76.3	25.9	11.0	5.2	1.40
20 to 24 years . . . . .	672	595	27.6	7.7	70.9	34.1	10.8	4.4	1.55
25 to 34 years . . . . .	716	620	27.1	7.4	68.2	35.6	10.8	5.0	1.54
35 to 44 years . . . . .	376	311	27.0	7.4	66.9	33.8	11.3	5.5	1.52
45 to 54 years . . . . .	266	212	24.1	6.1	64.2	34.4	11.8	5.7	1.46
55 to 64 years . . . . .	145	116	26.7	6.9	61.2	33.6	12.9	7.8	1.49
65 years and over . . . . .	38	28	(1)	(1)	(1)	(1)	(1)	(1)	1.36
White, 16 years and over . . . . .	4,577	3,778	23.8	6.2	72.4	31.6	14.0	6.4	1.54
Males . . . . .	2,354	1,866	26.4	6.3	73.3	29.2	16.4	8.1	1.60
Females . . . . .	2,224	1,912	21.4	6.0	71.6	33.9	11.6	4.7	1.49
Black and other, 16 years and over . . . . .	1,386	1,237	34.5	7.0	67.1	25.4	12.5	6.6	1.53
Males . . . . .	664	575	35.7	7.0	68.7	23.1	15.5	7.1	1.57
Females . . . . .	722	662	33.5	6.9	65.7	27.2	10.0	6.2	1.50

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

<sup>1</sup> Percent not shown where base is less than 35,000.

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

Sex and reason	1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over .....	5,963	5,015	26.5	6.4	71.1	30.0	13.6	6.5	1.54
Job losers .....	2,555	1,717	35.2	7.2	70.9	31.6	15.6	7.7	1.68
Job leavers .....	854	855	26.5	7.3	73.0	35.3	13.7	4.0	1.60
Reentrants .....	1,758	1,657	21.4	6.2	67.9	29.3	11.8	7.2	1.44
New entrants .....	797	787	18.0	3.9	76.2	22.4	12.8	4.8	1.38
Males, 16 years and over .....	3,018	2,442	28.5	6.5	72.2	27.8	16.2	7.9	1.59
Job losers .....	1,611	1,087	35.1	7.2	71.2	29.1	17.0	9.6	1.69
Job leavers .....	413	411	28.0	6.8	73.2	32.1	16.3	4.6	1.61
Reentrants .....	651	605	22.8	6.4	69.9	27.1	15.2	8.8	1.50
New entrants .....	342	339	18.6	3.5	78.2	19.5	15.3	5.0	1.40
Females, 16 years and over .....	2,945	2,574	24.5	6.3	70.1	32.2	11.2	5.1	1.49
Job losers .....	944	630	35.6	7.1	70.3	36.0	13.2	4.6	1.67
Job leavers .....	441	444	25.2	7.7	72.7	38.5	11.5	3.4	1.59
Reentrants .....	1,106	1,052	20.6	5.9	66.9	30.4	10.0	6.3	1.40
New entrants .....	455	448	17.6	4.2	74.8	24.8	10.9	4.7	1.37

NOTE: See note, table 15.

# HOUSEHOLD DATA ANNUAL AVERAGES

## 17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	1978	1979	1978	1979	1978	1979	1978	1979
Total, 16 years and over .....	6,047	5,963	100.0	100.0	4,706	4,639	100.0	100.0
Less than 5 weeks .....	2,793	2,869	46.2	48.1	1,996	2,060	42.4	44.4
5 to 14 weeks .....	1,875	1,892	31.0	31.7	1,498	1,521	31.8	32.8
5 to 10 weeks .....	1,377	1,396	22.8	23.4	1,087	1,112	23.1	24.0
11 to 14 weeks .....	499	496	8.3	8.3	411	409	8.7	8.8
15 weeks and over .....	1,379	1,202	22.8	20.2	1,213	1,058	25.8	22.8
15 to 26 weeks .....	746	684	12.3	11.5	647	598	13.7	12.9
27 weeks and over .....	633	518	10.5	8.7	566	460	12.0	9.9
27 to 51 weeks .....	322	269	5.3	4.5	290	240	6.2	5.2
52 weeks and over .....	311	249	5.1	4.2	276	220	5.9	4.7
Average (mean) duration, in weeks .....	11.9	10.8	--	--	13.0	11.8	--	--
Median duration, in weeks .....	5.9	5.4	--	--	6.7	6.2	--	--

## 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						
	1979							1978	1979	1978	1979
Total, 16 years and over .....	5,963	2,869	1,892	684	518	10.8	5.4	46.2	48.1	22.8	20.2
16 to 21 years .....	2,159	1,214	673	173	99	7.9	4.4	53.6	56.2	15.0	12.6
16 to 19 years .....	1,528	888	468	109	63	7.4	4.3	55.7	58.1	13.2	11.2
20 to 24 years .....	1,377	685	441	159	91	9.7	5.1	46.7	49.8	20.8	18.2
25 to 34 years .....	1,375	618	456	180	121	11.1	6.1	43.9	44.9	24.9	21.9
35 to 44 years .....	700	298	215	95	92	13.3	6.8	42.3	42.6	27.5	26.7
45 to 54 years .....	542	214	171	78	78	14.5	7.5	36.2	39.6	32.5	28.9
55 to 64 years .....	338	127	105	48	58	17.0	8.2	36.4	37.5	36.3	31.4
65 years and over .....	104	39	36	15	15	16.1	7.8	38.2	37.1	36.8	28.5
Males, 16 years and over .....	3,018	1,345	979	385	309	12.0	6.1	42.4	44.6	26.2	23.0
16 to 21 years .....	1,111	603	353	100	55	8.3	4.6	51.8	54.3	16.8	14.0
16 to 19 years .....	795	448	248	62	37	7.9	4.4	54.9	56.3	14.1	12.4
20 to 24 years .....	705	333	234	91	47	10.1	5.6	43.2	47.3	23.8	19.5
25 to 34 years .....	659	265	223	98	72	12.5	7.0	38.0	40.2	29.1	25.9
35 to 44 years .....	323	116	106	46	56	15.7	8.5	35.7	35.8	34.3	31.5
45 to 54 years .....	276	95	86	48	48	16.8	9.4	30.5	34.3	38.3	34.5
55 to 64 years .....	193	66	60	30	37	19.2	9.3	32.3	34.1	38.8	35.0
65 years and over .....	67	23	21	11	12	19.3	9.2	36.6	33.6	40.9	34.3
Females, 16 years and over .....	2,945	1,524	913	299	209	9.6	4.8	50.1	51.7	19.3	17.2
16 to 21 years .....	1,048	611	320	72	44	7.5	4.3	55.4	58.3	13.2	11.2
16 to 19 years .....	733	440	220	47	26	6.9	4.2	56.6	60.0	12.2	9.9
20 to 24 years .....	672	352	207	68	45	9.3	4.8	50.4	52.4	17.6	16.8
25 to 34 years .....	716	353	232	82	49	9.8	5.2	49.4	49.3	21.1	18.2
35 to 44 years .....	376	182	109	49	36	11.3	5.4	47.6	48.4	22.0	22.6
45 to 54 years .....	266	120	85	31	31	12.1	6.1	42.0	45.1	26.6	23.0
55 to 64 years .....	145	61	45	18	21	14.1	6.7	41.9	42.2	33.0	26.5
65 years and over .....	38	16	15	4	3	10.3	6.2	41.4	42.9	29.1	18.2
White, 16 years and over .....	4,577	2,263	1,438	518	359	10.3	5.1	47.9	49.4	21.5	19.1
Males .....	2,354	1,082	756	298	218	11.4	5.9	44.3	46.0	24.5	21.9
Females .....	2,224	1,181	682	219	141	9.0	4.7	51.7	53.1	18.4	16.2
Black and other, 16 years and over ..	1,386	606	454	166	159	12.7	6.4	40.7	43.7	26.9	23.5
Males .....	664	263	223	87	92	14.2	7.2	35.8	39.6	32.0	26.9
Females .....	722	343	231	80	67	11.3	5.6	45.2	47.5	22.2	20.4
Males, 16 years and over:											
Married, spouse present .....	1,101	437	366	161	136	13.4	7.2	35.9	39.7	32.0	27.0
Widowed, divorced, or separated .....	302	112	102	43	45	15.6	7.8	39.8	37.0	31.0	29.3
Single (never married) .....	1,615	796	511	181	128	10.5	5.2	47.1	49.3	21.5	19.1
Females, 16 years and over:											
Married, spouse present .....	1,224	636	377	135	76	9.1	4.8	49.9	51.9	20.1	17.2
Widowed, divorced, or separated .....	540	249	174	60	57	11.6	5.9	46.2	46.2	23.0	21.6
Single (never married) .....	1,181	639	362	104	76	9.1	4.6	52.0	54.1	16.8	15.3

# HOUSEHOLD DATA ANNUAL AVERAGES

## 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						
								1979			
<b>OCCUPATION</b>											
White-collar workers .....	1,703	796	542	203	163	11.3	5.7	44.8	46.8	24.8	21.4
Professional and managerial .....	598	252	190	80	77	13.3	7.0	39.7	42.1	29.4	26.1
Sales workers .....	252	121	84	30	17	10.1	5.4	47.7	48.1	22.1	18.6
Clerical workers .....	853	423	268	92	69	10.3	5.1	47.5	45.6	22.5	19.0
Blue-collar workers .....	2,377	1,077	777	307	216	11.2	6.0	43.3	45.3	25.0	22.0
Craft and kindred workers .....	604	261	208	77	58	11.7	6.3	41.2	43.2	26.6	22.4
Operatives, except transport .....	1,000	474	309	127	90	11.0	5.6	44.1	47.4	24.9	21.7
Transport equipment operatives .....	206	88	68	29	22	12.2	6.5	35.0	42.7	27.4	24.3
Nonfarm laborers .....	566	254	192	74	46	10.7	6.0	45.7	44.8	22.7	21.3
Service workers .....	980	498	300	100	82	10.4	4.9	49.6	50.8	19.8	18.6
<b>INDUSTRY<sup>1</sup></b>											
Agriculture .....	141	80	44	13	4	7.4	4.4	53.8	56.9	15.7	12.2
Construction .....	548	239	198	72	39	10.3	6.3	44.5	43.7	22.3	20.2
Manufacturing .....	1,273	578	393	170	132	11.8	6.1	41.7	45.4	27.8	23.7
Durable goods .....	687	303	210	97	77	12.4	6.4	39.6	44.1	30.7	25.2
Nondurable goods .....	587	275	183	73	56	11.1	5.7	44.2	46.9	24.4	21.9
Transportation and public utilities .....	229	99	72	29	29	13.0	6.4	42.2	43.2	27.4	25.4
Wholesale and retail trade .....	1,223	600	403	135	86	9.8	5.2	48.4	49.1	21.0	18.0
Finance and service industries .....	1,419	699	433	155	132	11.0	5.2	46.4	49.3	22.6	20.2
Public administration .....	189	78	60	28	24	13.4	7.3	37.4	41.1	29.6	27.2
No previous work experience .....	798	436	242	65	55	9.7	4.6	51.6	54.6	17.3	15.0

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

## 20. Employed persons by sex and age

[In thousands]

Age and type of industry	Total		Males		Females	
	1978	1979	1978	1979	1978	1979
<b>All industries</b> .....	94,373	96,945	55,491	56,499	38,882	40,446
16 to 19 years .....	7,981	7,984	4,279	4,236	3,702	3,748
16 to 17 years .....	3,269	3,271	1,767	1,761	1,502	1,510
18 to 19 years .....	4,712	4,713	2,512	2,475	2,200	2,238
20 to 24 years .....	13,498	13,891	7,330	7,534	6,168	6,358
25 to 54 years .....	58,759	60,721	35,149	35,923	23,605	24,798
25 to 34 years .....	24,472	25,584	14,629	15,133	9,843	10,450
35 to 44 years .....	17,938	18,768	10,678	11,014	7,260	7,754
45 to 54 years .....	16,349	16,369	9,842	9,775	6,507	6,594
55 to 64 years .....	11,217	11,380	6,892	6,946	4,325	4,434
55 to 59 years .....	7,003	7,060	4,266	4,285	2,738	2,775
60 to 64 years .....	4,213	4,320	2,626	2,661	1,587	1,659
65 years and over .....	2,919	2,969	1,842	1,861	1,077	1,108
<b>Nonagricultural industries</b> .....	91,031	93,648	52,810	53,854	38,221	39,794
16 to 19 years .....	7,586	7,628	3,959	3,941	3,627	3,687
16 to 17 years .....	3,054	3,067	1,596	1,594	1,458	1,474
18 to 19 years .....	4,532	4,560	2,363	2,347	2,169	2,213
20 to 24 years .....	13,108	13,493	7,017	7,210	6,091	6,283
25 to 54 years .....	57,092	59,010	33,861	34,609	23,231	24,400
25 to 34 years .....	23,858	24,933	14,148	14,616	9,710	10,317
35 to 44 years .....	17,437	18,261	10,296	10,635	7,141	7,626
45 to 54 years .....	15,796	15,815	9,417	9,358	6,379	6,457
55 to 64 years .....	10,680	10,875	6,447	6,524	4,234	4,351
55 to 59 years .....	6,710	6,799	4,033	4,073	2,677	2,727
60 to 64 years .....	3,970	4,076	2,414	2,451	1,556	1,625
65 years and over .....	2,566	2,642	1,527	1,570	1,038	1,072
<b>Agriculture</b> .....	3,342	3,297	2,681	2,645	661	652
16 to 19 years .....	395	356	320	295	75	61
16 to 17 years .....	214	203	170	167	44	36
18 to 19 years .....	180	153	150	127	30	25
20 to 24 years .....	390	398	313	324	77	75
25 to 54 years .....	1,667	1,711	1,288	1,313	379	398
25 to 34 years .....	614	650	481	517	133	133
35 to 44 years .....	501	506	382	378	119	128
45 to 54 years .....	553	554	425	417	127	137
55 to 64 years .....	536	505	445	422	51	83
55 to 59 years .....	293	261	233	213	60	48
60 to 64 years .....	243	244	212	210	31	34
65 years and over .....	354	327	315	291	39	36

# HOUSEHOLD DATA ANNUAL AVERAGES

## 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	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
<b>TOTAL</b>	94,373	96,945	51,212	52,264	35,180	36,698	4,279	4,236	3,702	3,748
White-collar workers	47,205	49,342	21,981	22,639	22,741	24,107	652	667	1,831	1,930
Professional and technical	14,245	15,050	8,066	8,435	5,988	6,425	97	96	94	94
Health workers	2,605	2,809	915	951	1,670	1,839	3	6	18	13
Teachers, except college	2,992	3,118	863	906	2,106	2,187	5	5	17	19
Other professional and technical	8,648	9,123	6,288	6,578	2,212	2,399	89	85	59	62
Managers and administrators, except farm	10,105	10,516	7,687	7,877	2,324	2,537	56	54	37	49
Salaried workers	8,277	8,733	6,279	6,510	1,910	2,126	51	48	36	48
Self-employed workers in retail trade	895	849	617	576	275	271	2	2	1	--
Self-employed workers, except retail trade	933	935	791	791	138	140	3	4	--	--
Sales workers	5,951	6,163	3,056	3,141	2,254	2,338	230	243	412	442
Retail trade	3,172	3,215	976	1,007	1,633	1,605	180	189	383	414
Other industries	2,779	2,948	2,079	2,134	621	732	49	54	29	28
Clerical workers	16,904	17,613	3,172	3,186	12,175	12,807	269	275	1,288	1,345
Stenographers, typists, and secretaries	4,729	4,825	69	65	4,290	4,404	6	8	365	348
Other clerical workers	12,175	12,788	3,103	3,121	7,885	8,403	263	267	923	997
Blue-collar workers	31,531	32,066	23,367	23,761	5,313	5,477	2,398	2,394	454	434
Craft and kindred workers	12,386	12,880	11,213	11,595	653	691	476	549	44	47
Carpenters	1,253	1,276	1,166	1,178	10	13	75	82	2	3
Construction craft, except carpenters	2,508	2,639	2,351	2,464	31	37	120	132	6	5
Mechanics and repairers	3,335	3,451	3,124	3,206	47	46	161	196	2	3
Metal craft	1,213	1,291	1,145	1,213	34	34	33	41	1	4
Blue-collar worker supervisors, not elsewhere classified	1,671	1,739	1,496	1,550	164	173	9	12	2	4
All other	2,404	2,484	1,930	1,983	366	387	77	87	31	28
Operatives, except transport	10,875	10,909	5,858	5,892	4,025	4,080	696	663	296	273
Durable goods manufacturing	4,909	5,032	3,031	3,057	1,538	1,654	232	221	108	100
Nondurable goods manufacturing	3,479	3,376	1,354	1,316	1,874	1,835	119	111	132	115
Other industries	2,487	2,501	1,473	1,520	612	591	345	332	56	58
Transport equipment operatives	3,541	3,612	3,096	3,137	242	275	188	181	15	19
Drivers, motor vehicles	3,011	3,066	2,606	2,643	230	256	161	150	13	17
All other	530	546	490	494	12	19	26	31	2	1
Nonfarm laborers	4,729	4,665	3,200	3,136	393	431	1,038	1,001	98	96
Construction	895	878	700	676	15	17	175	181	5	4
Manufacturing	1,106	1,068	818	789	143	151	132	112	13	17
Other industries	2,728	2,719	1,682	1,672	235	263	730	708	81	76
Service workers	12,839	12,834	3,844	3,881	6,673	6,674	960	942	1,361	1,337
Private household workers	1,162	1,088	14	15	894	848	13	11	240	214
Service workers, except private household	11,677	11,746	3,829	3,865	5,779	5,827	947	932	1,121	1,122
Food service workers	4,283	4,300	753	786	2,170	2,185	581	572	779	757
Protective service workers	1,358	1,406	1,220	1,259	111	118	23	23	4	6
All other	6,036	6,040	1,856	1,820	3,498	3,524	343	337	338	359
Farm workers	2,798	2,703	2,020	1,984	453	440	269	233	56	47
Farmers and farm managers	1,480	1,446	1,332	1,291	130	138	17	17	1	1
Farm laborers and supervisors	1,318	1,257	688	693	323	302	252	216	55	46
Paid workers	1,019	971	655	657	132	124	195	155	37	35
Unpaid family workers	299	286	33	36	191	178	57	60	18	11

# HOUSEHOLD DATA ANNUAL AVERAGES

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	1978	1979	1978	1979	1978	1979
<b>TOTAL</b>						
Total, 16 years and over (thousands) . . . . .	94,373	96,945	55,491	56,499	38,882	40,446
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers . . . . .	50.0	50.9	40.8	41.2	63.2	64.4
Professional and technical . . . . .	15.1	15.5	14.7	15.1	15.6	16.1
Managers and administrators, except farm . . . . .	10.7	10.8	14.0	14.0	6.1	6.4
Sales workers . . . . .	6.3	6.4	5.9	6.0	6.9	6.9
Clerical workers . . . . .	17.9	18.2	6.2	6.1	34.6	35.0
Blue-collar workers . . . . .	33.4	33.1	46.4	46.3	14.8	14.6
Craft and kindred workers . . . . .	13.1	13.3	21.1	21.5	1.8	1.8
Operatives, except transport . . . . .	11.5	11.3	11.8	11.6	11.1	10.8
Transport equipment operatives . . . . .	3.8	3.7	5.9	5.9	.7	.7
Nonfarm laborers . . . . .	5.0	4.8	7.6	7.3	1.3	1.3
Service workers . . . . .	13.6	13.2	8.7	8.5	20.7	19.8
Private household workers . . . . .	1.2	1.1	(1)	(1)	2.9	2.6
Other service workers . . . . .	12.4	12.1	8.6	8.5	17.7	17.2
Farm workers . . . . .	3.0	2.6	4.1	3.9	1.3	1.2
Farmers and farm managers . . . . .	1.6	1.5	2.4	2.3	.3	.3
Farm laborers and supervisors . . . . .	1.4	1.3	1.7	1.6	1.0	.9
<b>White</b>						
Total, 16 years and over (thousands) . . . . .	83,836	86,025	49,893	50,721	33,943	35,304
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers . . . . .	51.8	52.5	42.4	42.8	65.5	66.5
Professional and technical . . . . .	15.5	15.9	15.3	15.6	15.9	16.4
Managers and administrators, except farm . . . . .	11.4	11.6	14.8	14.9	6.5	6.8
Sales workers . . . . .	6.7	6.8	6.3	6.4	7.4	7.4
Clerical workers . . . . .	18.3	18.2	6.0	6.0	35.7	35.9
Blue-collar workers . . . . .	32.9	32.6	45.6	45.5	14.3	14.1
Craft and kindred workers . . . . .	13.7	13.8	21.7	22.0	1.9	1.9
Operatives, except transport . . . . .	11.0	10.8	11.4	11.2	10.5	10.2
Transport equipment operatives . . . . .	3.6	3.6	5.6	5.6	.7	.8
Nonfarm laborers . . . . .	4.6	4.5	7.0	6.7	1.2	1.3
Service workers . . . . .	12.3	12.0	7.8	7.7	18.8	18.1
Private household workers . . . . .	.9	.8	(1)	(1)	2.2	2.0
Other service workers . . . . .	11.4	11.1	7.8	7.7	16.6	16.1
Farm workers . . . . .	3.0	2.9	4.2	4.0	1.4	1.3
Farmers and farm managers . . . . .	1.7	1.6	2.6	2.5	.4	.4
Farm laborers and supervisors . . . . .	1.3	1.2	1.5	1.5	1.0	.9
<b>Black and other</b>						
Total, 16 years and over (thousands) . . . . .	10,537	10,920	5,599	5,779	4,938	5,141
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers . . . . .	36.2	37.9	26.7	27.4	47.1	49.7
Professional and technical . . . . .	11.7	12.2	9.8	10.5	13.8	14.2
Managers and administrators, except farm . . . . .	4.8	5.2	6.5	6.9	2.9	3.4
Sales workers . . . . .	2.8	2.8	2.6	2.5	3.1	3.1
Clerical workers . . . . .	16.9	17.7	7.8	7.6	27.2	29.0
Blue-collar workers . . . . .	37.2	36.7	53.6	53.2	18.6	18.0
Craft and kindred workers . . . . .	8.8	9.4	15.4	16.6	1.3	1.2
Operatives, except transport . . . . .	15.5	15.1	15.7	15.4	15.3	14.7
Transport equipment operatives . . . . .	5.0	4.8	8.9	8.5	.5	.6
Nonfarm laborers . . . . .	7.9	7.4	13.6	12.7	1.4	1.6
Service workers . . . . .	24.1	23.2	15.9	15.9	33.4	31.5
Private household workers . . . . .	3.6	3.3	.1	.1	7.7	6.8
Other service workers . . . . .	20.5	19.9	15.8	15.7	25.8	24.6
Farm workers . . . . .	2.4	2.2	3.9	3.5	.9	.8
Farmers and farm managers . . . . .	.5	.3	.8	.6	.1	.1
Farm laborers and supervisors . . . . .	2.0	1.9	3.0	2.9	.7	.7

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

# HOUSEHOLD DATA ANNUAL AVERAGES

## 23. Employed persons by detailed occupation, sex, and race

(Numbers in thousands)

Occupations			1979			Occupations			1979		
			Total employed	Percent of total					Total employed	Percent of total	
				Female	Black and other					Female	Black and other
Total, 16 years and over			96,945	41.7	11.3	White-collar workers—Continued					
Managers and administrators—Continued						Inspectors, except construction and public administration			104	12.5	9.6
Managers and administrators—Continued						Managers and superintendents, building			152	50.0	7.2
Managers and administrators—Continued						Office managers, n.e.c.			416	63.0	2.2
Managers and administrators—Continued						Officials and administrators; public administration n.e.c.			414	26.6	10.1
Managers and administrators—Continued						Officials of lodges, societies, and unions			113	29.2	8.0
Managers and administrators—Continued						Restaurant, cafeteria, and bar managers			632	35.4	9.3
Managers and administrators—Continued						Sales managers and department heads, retail trade			339	39.8	4.7
Managers and administrators—Continued						Sales managers, except retail trade			347	8.6	3.5
Managers and administrators—Continued						School administrators, college			116	32.8	12.9
Managers and administrators—Continued						School administrators, elementary and secondary			299	37.5	11.0
Managers and administrators—Continued						All other managers and administrators			6,273	17.7	4.5
Sales workers						Sales workers			6,163	45.1	4.9
Sales workers						Advertising agents and sales workers			95	41.0	3.2
Sales workers						Demonstrators			88	93.2	4.5
Sales workers						Hucksters and peddlers			193	79.8	6.2
Sales workers						Insurance agents, brokers, and underwriters			534	23.8	6.2
Sales workers						Newspaper carriers and vendors			98	28.6	4.1
Sales workers						Real estate agents and brokers			616	49.4	2.8
Sales workers						Stock and bond sales agents			122	19.7	3.3
Sales workers						Sales workers and sales clerks, n.e.c.			4,410	45.8	5.1
Sales workers						Sales representatives, manufacturing industries			398	17.1	3.0
Sales workers						Sales representatives, wholesale trade			904	10.4	3.2
Sales workers						Sales clerks, retail trade			2,362	70.7	6.9
Sales workers						Sales workers, except clerks, retail trade			549	20.0	2.2
Sales workers						Sales workers, services and construction			197	39.1	5.1
Clerical workers						Clerical workers			17,613	80.3	11.0
Clerical workers						Bank tellers			493	92.9	9.3
Clerical workers						Billing clerks			162	90.1	8.6
Clerical workers						Bookkeepers			1,910	91.1	5.4
Clerical workers						Cashiers			1,477	87.9	10.5
Clerical workers						Clerical supervisors, n.e.c.			237	71.3	11.8
Clerical workers						Collectors, bill and account			74	59.5	8.1
Clerical workers						Counter clerks, except food			362	77.9	11.0
Clerical workers						Dispatchers and starters, vehicle			107	35.5	6.5
Clerical workers						Enumerators and interviewers			60	76.7	10.0
Clerical workers						Estimators and investigators, n.e.c.			496	55.8	10.1
Clerical workers						Expeditors and production controllers			239	38.1	9.6
Clerical workers						File clerks			305	86.6	21.0
Clerical workers						Insurance adjusters, examiners, and investigators			173	55.5	12.7
Clerical workers						Library attendants and assistants			165	79.4	12.7
Clerical workers						Mail carriers, post office			253	10.3	10.7
Clerical workers						Mail handlers, except post office			167	50.3	18.6
Clerical workers						Messengers and office helpers			92	31.5	18.5
Clerical workers						Office machine operators			904	74.9	17.6
Clerical workers						Bookkeeping and billing machine operators			57	89.5	10.5
Clerical workers						Computer and peripheral equipment operators			453	61.6	13.0
Clerical workers						Key punch operators			274	95.3	23.0
Clerical workers						Payroll and timekeeping clerks			236	81.4	8.5
Clerical workers						Postal clerks			259	34.4	23.9
Clerical workers						Receptionists			600	97.2	8.7
Clerical workers						Secretaries			3,729	99.1	6.6
Clerical workers						Secretaries, legal			153	99.3	3.9
Clerical workers						Secretaries, medical			85	100.0	5.9
Clerical workers						Secretaries, n.e.c.			3,491	99.1	6.7
Clerical workers						Shipping and receiving clerks			484	21.3	13.6
Clerical workers						Statistical clerks			400	78.8	12.3
Clerical workers						Stenographers			76	93.4	13.2
Clerical workers						Stock clerks and storekeepers			529	31.9	14.4
Clerical workers						Teachers aides, except school monitors			350	93.4	17.1
Clerical workers						Telephone operators			327	91.7	16.8
Clerical workers						Ticket, station, and express agents			144	44.4	9.7
Clerical workers						Typists			1,020	96.7	17.2
Clerical workers						All other clerical workers			1,783	76.4	12.7
Blue-collar workers						Blue-collar workers			32,066	18.4	12.5
Blue-collar workers						Craft and kindred workers			12,880	5.7	7.9
Blue-collar workers						Carpenters			1,276	1.3	5.1
Blue-collar workers						Brickmasons and stonemasons			205	.5	16.1
Blue-collar workers						Cement and concrete finishers			82	--	29.3
Blue-collar workers						Electricians			640	1.3	5.6
Blue-collar workers						Excavating, grading, and road machinery operators			444	.5	9.5
Blue-collar workers						Painters, construction and maintenance			483	5.0	10.6
Managers and administrators, except farm			10,516	24.6	5.4	Managers and administrators, except farm					
Bank officials and financial managers			620	31.6	5.0	Bank officials and financial managers					
Buyers and purchasing agents			451	30.4	6.0	Buyers and purchasing agents					
Buyers, wholesale and retail trade			200	40.0	6.5	Buyers, wholesale and retail trade					
Credit and collection managers			55	40.0	1.8	Credit and collection managers					
Health administrators			185	48.1	7.0	Health administrators					

# HOUSEHOLD DATA ANNUAL AVERAGES

## 23. Employed persons by detailed occupation, sex, and race—Continued

(Numbers in thousands)



NOTE: N.E.C. is an abbreviation for "not elsewhere classified" and designates broad categories of occupations which cannot be more specifically identified.



# HOUSEHOLD DATA ANNUAL AVERAGES

## 24. Employed persons by class of worker, age, and sex

[In thousands]

Age and sex	1979								
	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	86,540	1,240	15,369	69,931	6,652	455	1,413	1,580	304
16 to 19 years	7,503	279	568	6,656	94	32	252	31	72
16 to 17 years	3,004	212	201	2,590	44	20	139	17	47
16 to 19 years	4,499	67	367	4,066	50	12	113	14	25
20 to 24 years	13,140	91	1,523	11,526	329	24	274	92	32
25 to 34 years	23,322	145	4,413	18,764	1,531	80	335	273	42
35 to 44 years	16,556	131	3,479	12,946	1,578	128	192	266	48
45 to 54 years	14,230	201	3,025	11,005	1,484	102	163	332	58
55 to 64 years	9,714	220	2,025	7,468	1,097	64	118	351	36
55 to 59 years	6,099	112	1,283	4,704	659	42	64	176	21
60 to 64 years	3,615	108	743	2,765	438	23	54	175	15
65 years and over	2,076	173	337	1,566	540	26	78	233	16
Males, 16 years and over	49,098	155	7,662	41,281	4,714	42	1,130	1,418	98
16 to 19 years	3,861	65	256	3,541	60	20	204	30	61
16 to 17 years	1,554	49	103	1,402	27	13	111	16	39
16 to 19 years	2,307	16	152	2,139	33	7	93	14	21
20 to 24 years	6,977	13	631	6,333	226	7	219	84	20
25 to 34 years	13,563	14	2,212	11,337	1,047	6	266	244	7
35 to 44 years	9,509	9	1,740	7,760	1,126	1	150	226	2
45 to 54 years	8,287	13	1,586	6,688	1,069	1	121	294	3
55 to 64 years	5,723	14	1,043	4,666	798	3	98	323	1
55 to 59 years	3,590	7	660	2,924	481	1	54	159	--
60 to 64 years	2,133	7	384	1,742	317	2	44	165	1
65 years and over	1,177	26	194	957	388	4	71	217	3
Females, 16 years and over	37,442	1,085	7,707	28,650	1,939	412	283	163	206
16 to 19 years	3,641	214	312	3,115	34	11	48	1	12
16 to 17 years	1,450	163	98	1,189	17	7	27	1	8
16 to 19 years	2,192	51	214	1,926	17	4	21	--	4
20 to 24 years	6,163	78	892	5,193	103	17	55	8	12
25 to 34 years	9,759	130	2,201	7,427	484	74	69	29	35
35 to 44 years	7,047	122	1,739	5,186	452	126	42	41	45
45 to 54 years	5,943	188	1,438	4,316	415	100	42	39	56
55 to 64 years	3,991	207	982	2,802	299	61	20	28	34
55 to 59 years	2,508	105	623	1,780	178	41	11	17	21
60 to 64 years	1,483	101	359	1,023	121	21	9	11	14
65 years and over	898	147	143	609	152	22	7	16	13

## 25. Employed persons by industry and occupation

[In thousands]

Industry	1979											
	Total employed	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	Farm workers
Total, 16 years and over:												
Agriculture	3,297	73	32	7	84	57	19	46	265	--	11	2,703
Mining	865	128	68	5	99	231	248	51	24	--	11	--
Construction	6,299	186	737	29	440	3,493	309	198	878	--	29	--
Manufacturing	22,137	2,376	1,563	502	2,648	4,344	8,408	794	1,068	--	435	--
Durable goods	13,450	1,612	912	183	1,552	2,864	5,032	389	659	--	245	--
Nondurable goods	8,688	764	651	319	1,095	1,480	3,376	404	409	--	190	--
Transportation and public utilities	6,406	567	628	56	1,448	1,376	156	1,514	476	--	184	--
Wholesale and retail trade	19,672	397	3,755	4,110	3,445	1,542	988	734	1,180	--	3,522	--
Wholesale trade	3,775	146	767	895	772	341	190	370	257	--	36	--
Retail trade	15,898	251	2,987	3,215	2,673	1,201	799	364	923	--	3,486	--
Finance, insurance, and real estate	5,779	317	1,109	1,275	2,605	115	10	13	77	--	258	--
Services	27,433	10,018	1,981	174	5,054	1,428	732	208	538	1,088	6,214	--
Private households	1,301	12	1	--	12	6	2	5	128	1,088	49	--
Other service industries	26,132	10,006	1,980	174	5,042	1,422	730	203	410	--	6,165	--
Public administration	5,056	989	645	4	1,791	294	39	53	158	--	1,082	--

**HOUSEHOLD DATA  
ANNUAL AVERAGES**

**26. Employed persons in nonagricultural industries by class of worker and sex**

(In thousands)

Industry	1979					Self-employed workers	Unpaid family workers
	Total employed	Wage and salary workers					
		Total	Government	Private industries			
<b>TOTAL</b>							
Both sexes, 16 years and over:							
Mining .....	865	843	1	842	21	2	
Construction .....	6,299	5,118	507	4,612	1,131	49	
Manufacturing .....	22,137	21,775	133	21,642	333	30	
Durable goods .....	13,450	13,227	95	13,131	205	18	
Nondurable goods .....	8,688	8,548	38	8,510	128	12	
Transportation and public utilities .....	6,406	6,120	831	5,290	271	14	
Wholesale and retail trade .....	19,672	17,646	99	17,548	1,815	211	
Wholesale trade .....	3,775	3,485	3	3,482	271	19	
Retail trade .....	15,898	14,162	96	14,066	1,543	193	
Finance, insurance, and real estate .....	5,779	5,321	131	5,189	436	22	
Services .....	27,433	24,661	8,612	16,049	2,646	126	
Private households .....	1,301	1,240	--	1,240	60	1	
Other service industries .....	26,132	23,421	8,612	14,809	2,586	125	
Business repair .....	3,632	2,896	31	2,865	685	47	
Personal .....	2,499	1,726	10	1,717	742	31	
Entertainment and recreation .....	1,026	892	105	786	130	5	
Professional .....	18,817	17,790	8,385	9,404	966	41	
Medical, except hospital .....	3,047	2,684	462	2,221	335	24	
Hospitals .....	3,843	3,837	1,131	2,706	6	--	
Welfare and religion .....	1,536	1,504	592	912	32	--	
Education .....	7,855	7,718	6,098	1,620	134	3	
Other .....	2,537	2,047	102	1,945	476	14	
Forestry and fisheries .....	157	117	80	37	39	2	
Public administration .....	5,056	5,056	5,056	--	--	--	
<b>Males</b>							
Mining .....	764	743	1	742	20	--	
Construction .....	5,836	4,727	469	4,257	1,105	5	
Manufacturing .....	15,304	15,027	99	14,928	273	4	
Durable goods .....	10,080	9,895	75	9,820	182	3	
Nondurable goods .....	5,223	5,132	24	5,108	91	1	
Transportation and public utilities .....	4,844	4,592	643	3,949	251	1	
Wholesale and retail trade .....	10,632	9,452	41	9,411	1,159	20	
Wholesale trade .....	2,812	2,573	1	2,572	238	2	
Retail trade .....	7,820	6,880	40	6,839	922	18	
Finance, insurance, and real estate .....	2,449	2,139	76	2,063	309	1	
Services .....	10,701	9,094	3,008	6,086	1,556	11	
Private households .....	155	155	--	155	--	--	
Other service industries .....	10,546	8,939	3,008	5,931	1,596	11	
Business repair .....	2,461	1,903	15	1,888	554	4	
Personal .....	846	610	4	606	232	4	
Entertainment and recreation .....	632	536	65	472	95	1	
Professional .....	6,481	5,798	2,866	2,931	681	2	
Medical, except hospital .....	771	504	145	359	266	--	
Hospitals .....	904	899	334	565	4	--	
Welfare and religion .....	630	612	156	456	16	--	
Education .....	2,728	2,709	2,164	545	19	--	
Other .....	1,448	1,073	67	1,006	374	1	
Forestry and fisheries .....	126	92	58	34	34	--	
Public administration .....	3,325	3,325	3,325	--	--	--	
<b>Females</b>							
Mining .....	102	100	--	100	--	1	
Construction .....	463	392	37	354	26	45	
Manufacturing .....	6,834	6,748	34	6,714	59	26	
Durable goods .....	3,369	3,332	20	3,311	23	15	
Nondurable goods .....	3,464	3,416	14	3,402	37	11	
Transportation and public utilities .....	1,561	1,528	188	1,340	20	13	
Wholesale and retail trade .....	9,041	8,194	57	8,137	656	191	
Wholesale trade .....	963	912	2	911	34	17	
Retail trade .....	8,078	7,282	56	7,226	622	175	
Finance, insurance, and real estate .....	3,330	3,182	55	3,127	127	21	
Services .....	16,732	15,567	5,604	9,963	1,050	114	
Private households .....	1,146	1,085	--	1,085	60	--	
Other service industries .....	15,586	14,482	5,604	8,878	990	114	
Business repair .....	1,171	992	16	976	135	43	
Personal .....	1,653	1,116	6	1,110	510	27	
Entertainment and recreation .....	394	356	41	315	34	4	
Professional .....	12,336	11,992	5,519	6,473	305	39	
Medical, except hospital .....	2,276	2,180	318	1,862	72	24	
Hospitals .....	2,939	2,938	797	2,140	2	--	
Welfare and religion .....	906	892	436	456	14	--	
Education .....	5,127	5,009	3,934	1,075	115	2	
Other .....	1,089	974	35	939	102	13	
Forestry and fisheries .....	31	25	22	3	5	1	
Public administration .....	1,731	1,731	1,731	--	--	--	

# HOUSEHOLD DATA ANNUAL AVERAGES

## 27. Employed persons by industry, occupation, and sex

(Percent distribution)

Industry and sex	1979												
	Total employed		White-collar workers				Blue-collar workers				Service workers		Farm workers
	Numbers (in thousands)	Percent	Profes- sional and technical workers	Managers and adminis- trators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
<b>Total</b>													
Agriculture .....	3,297	100.0	2.2	1.0	.2	2.5	1.7	.6	1.4	8.0	--	.3	82.0
Mining .....	865	100.0	14.8	7.9	.6	11.4	26.7	28.7	5.9	2.8	--	1.3	--
Construction .....	6,299	100.0	3.0	11.7	.5	7.0	55.5	4.9	3.1	13.9	--	.5	--
Manufacturing .....	22,137	100.0	10.7	7.1	2.3	12.0	19.6	38.0	3.6	4.8	--	2.0	--
Durable goods .....	13,450	100.0	12.0	6.8	1.4	11.5	21.3	37.4	2.9	4.9	--	1.8	--
Nondurable goods .....	8,688	100.0	8.8	7.5	3.7	12.6	17.0	38.9	4.7	4.7	--	2.2	--
Transportation and public utilities .....	6,406	100.0	8.9	9.8	.9	22.6	21.5	2.4	23.6	7.4	--	2.9	--
Wholesale and retail trade .....	19,672	100.0	2.0	19.1	20.9	17.5	7.8	5.0	3.7	6.0	--	17.9	--
Wholesale trade .....	3,775	100.0	3.9	20.3	23.7	20.5	9.0	5.0	9.8	6.8	--	1.0	--
Retail trade .....	15,898	100.0	1.6	18.8	20.2	16.8	7.6	5.0	2.3	5.8	--	21.9	--
Finance, insurance, and real estate .....	5,779	100.0	5.5	19.2	22.1	45.1	2.0	.2	.2	1.3	--	4.5	--
Services .....	27,433	100.0	36.5	7.2	.6	18.4	5.2	2.7	.8	2.0	4.0	22.6	--
Private households .....	1,301	100.0	.9	.1	--	.9	.5	.2	.4	9.8	83.5	3.8	--
Other service industries .....	26,132	100.0	38.3	7.6	.7	19.3	5.4	2.8	.8	1.6	--	23.6	--
Public administration .....	5,056	100.0	19.6	12.8	.1	35.4	5.8	.8	1.0	3.1	--	21.4	--
<b>Males</b>													
Agriculture .....	2,645	100.0	2.0	1.0	.2	.2	2.1	.5	1.6	8.4	--	.2	83.8
Mining .....	764	100.0	14.5	8.1	.7	3.8	30.1	31.7	6.7	3.1	--	1.3	--
Construction .....	5,836	100.0	2.9	12.1	.4	1.7	59.2	5.2	3.3	14.7	--	.4	--
Manufacturing .....	15,304	100.0	12.9	9.0	2.6	5.3	26.2	30.7	5.0	5.9	--	2.4	--
Durable goods .....	10,080	100.0	14.1	8.1	1.6	5.1	26.9	32.5	3.8	5.7	--	2.1	--
Nondurable goods .....	5,223	100.0	10.6	10.6	4.5	5.5	24.9	27.3	7.5	6.2	--	3.0	--
Transportation and public utilities .....	4,844	100.0	9.5	10.4	.7	9.7	27.7	3.0	27.2	9.5	--	2.4	--
Wholesale and retail trade .....	10,632	100.0	2.5	26.0	18.8	5.0	12.7	6.7	6.6	9.4	--	12.3	--
Wholesale trade .....	2,812	100.0	4.0	24.1	28.6	5.9	11.5	4.2	12.8	8.0	--	1.0	--
Retail trade .....	7,820	100.0	1.9	26.6	15.3	4.7	13.2	7.6	4.4	9.9	--	16.4	--
Finance, insurance, and real estate .....	2,449	100.0	7.6	29.9	33.5	13.7	4.3	.2	.5	2.9	--	7.4	--
Services .....	10,701	100.0	42.9	12.1	.9	4.8	12.2	3.7	1.7	4.3	.2	17.1	--
Private households .....	155	100.0	.6	--	--	.6	3.2	.6	2.6	75.0	16.7	.6	--
Other service industries .....	10,546	100.0	43.6	12.3	.9	4.9	12.4	3.8	1.6	3.2	--	17.3	--
Public administration .....	3,325	100.0	21.5	14.1	.1	20.1	8.6	1.0	1.5	4.3	--	28.8	--
<b>Females</b>													
Agriculture .....	652	100.0	2.9	.9	.5	12.1	.2	.8	.5	6.4	--	1.1	74.7
Mining .....	102	100.0	16.7	5.9	--	67.6	1.0	5.9	1.0	1.0	--	1.0	--
Construction .....	463	100.0	3.9	6.7	1.3	72.8	7.8	1.1	.6	4.5	--	1.3	--
Manufacturing .....	6,834	100.0	5.8	2.8	1.5	27.0	4.9	54.2	.4	2.4	--	1.0	--
Durable goods .....	3,369	100.0	5.6	2.8	.7	30.7	4.6	52.1	.3	2.4	--	1.0	--
Nondurable goods .....	3,464	100.0	6.1	2.8	2.4	23.3	5.3	56.3	.4	2.5	--	1.0	--
Transportation and public utilities .....	1,561	100.0	6.7	8.1	1.3	62.7	2.3	.8	12.5	1.2	--	4.4	--
Wholesale and retail trade .....	9,041	100.0	1.5	11.0	23.3	32.2	2.1	3.0	.4	2.0	--	24.5	--
Wholesale trade .....	963	100.0	3.5	9.1	9.5	63.1	2.0	7.4	1.2	3.3	--	.8	--
Retail trade .....	8,078	100.0	1.2	11.2	25.0	28.6	2.1	2.5	.3	1.8	--	27.3	--
Finance, insurance, and real estate .....	3,330	100.0	3.9	11.3	13.7	68.2	.3	.2	--	.2	--	2.3	--
Services .....	16,732	100.0	32.4	4.1	.4	27.1	.7	2.0	.2	.5	6.3	26.2	--
Private households .....	1,146	100.0	1.0	.1	--	.9	.1	.1	.1	1.0	92.7	4.2	--
Other service industries .....	15,586	100.0	34.7	4.4	.5	29.0	.8	2.1	.2	.5	--	27.8	--
Public administration .....	1,731	100.0	15.9	10.1	.2	64.9	.4	.4	.2	.8	--	7.1	--

# HOUSEHOLD DATA ANNUAL AVERAGES

## 28. Employed persons by industry, occupation, and race

(Percent distribution)

Industry and race	1979												
	Total employed		White-collar workers				Blue-collar workers				Service workers		Farm workers
	Numbers (in thousands)	Percent	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	
WHITE													
Agriculture .....	2,999	100.0	2.4	1.0	.2	2.7	1.7	.5	1.3	7.8	--	.3	82.0
Mining .....	829	100.0	15.1	8.2	.6	10.7	27.1	28.5	5.8	2.8	--	1.2	--
Construction .....	5,785	100.0	3.0	12.4	.5	7.3	56.2	4.9	2.9	12.5	--	.4	--
Manufacturing .....	19,602	100.0	11.3	7.7	2.5	12.4	20.2	36.2	3.5	4.4	--	1.8	--
Durable goods .....	11,986	100.0	12.6	7.4	1.5	12.0	21.8	35.9	2.7	4.4	--	1.7	--
Nondurable goods .....	7,616	100.0	9.3	8.2	4.0	13.0	17.8	36.7	4.7	4.4	--	1.9	--
Transportation and public utilities .....	5,590	100.0	9.3	10.7	.9	22.1	22.6	2.2	23.2	6.4	--	2.6	--
Wholesale and retail trade .....	18,046	100.0	2.0	19.7	21.6	17.5	8.0	4.8	3.5	5.8	--	17.1	--
Wholesale trade .....	3,484	100.0	3.8	21.2	24.9	20.6	9.0	4.5	9.1	6.2	--	.8	--
Retail trade .....	14,562	100.0	1.6	19.4	20.8	16.7	7.8	4.9	2.2	5.6	--	21.0	--
Finance, insurance, and real estate .....	5,244	100.0	5.5	20.1	23.3	43.9	1.9	.1	.2	1.3	--	3.6	--
Services .....	23,635	100.0	38.4	7.7	.7	19.1	5.5	2.5	.7	1.8	3.1	20.5	--
Private households .....	894	100.0	1.0	.1	--	1.2	.6	.2	.3	11.4	81.4	3.6	--
Other service industries .....	22,741	100.0	39.8	8.0	.7	19.8	5.7	2.6	.7	1.5	--	21.1	--
Public administration .....	4,295	100.0	20.5	13.6	.1	34.1	5.7	.7	.8	2.7	--	21.7	--
BLACK AND OTHER													
Agriculture .....	298	100.0	.7	.7	--	1.0	2.0	1.3	2.3	10.4	--	.3	81.2
Mining .....	36	100.0	8.8	--	--	29.4	14.7	35.3	8.8	2.9	--	--	--
Construction .....	514	100.0	3.1	3.9	.4	3.1	47.1	5.1	5.6	30.5	--	1.2	--
Manufacturing .....	2,535	100.0	6.1	2.0	.7	8.8	14.9	51.6	4.2	8.3	--	3.5	--
Durable goods .....	1,464	100.0	6.8	1.6	.2	8.0	17.5	49.7	4.2	9.1	--	3.1	--
Nondurable goods .....	1,071	100.0	5.1	2.5	1.3	9.9	11.5	54.2	4.3	7.2	--	4.1	--
Transportation and public utilities .....	815	100.0	5.6	3.9	.4	25.8	14.2	4.0	26.6	14.4	--	5.0	--
Wholesale and retail trade .....	1,627	100.0	1.8	11.9	13.5	17.9	5.8	7.0	6.2	8.7	--	27.1	--
Wholesale trade .....	291	100.0	4.5	9.9	10.3	19.2	9.9	11.0	18.2	14.0	--	3.1	--
Retail trade .....	1,336	100.0	1.2	12.4	14.2	17.6	4.9	6.1	3.7	7.6	--	32.3	--
Finance, insurance, and real estate .....	535	100.0	4.9	10.1	10.1	56.3	2.8	.6	.6	2.1	--	12.7	--
Services .....	3,799	100.0	25.0	4.2	.2	14.5	3.1	3.6	.9	2.7	9.5	36.4	--
Private households .....	408	100.0	.7	--	--	--	--	--	.5	6.4	88.2	4.2	--
Other service industries .....	3,391	100.0	27.9	4.7	.2	16.2	3.5	4.0	1.0	2.3	--	40.2	--
Public administration .....	761	100.0	14.4	7.9	.1	42.8	6.3	1.2	2.5	5.4	--	19.5	--

# HOUSEHOLD DATA ANNUAL AVERAGES

## 29. Employed persons in nonagricultural industries by sex, age, and race

(Percent distribution)

Age, sex, and race	1979									
	Mining	Construction	Manufacturing			Transportation and public utilities	Wholesale and retail trade	Finance, insurance, and real estate	Service industries <sup>1</sup>	Public administration
			Total	Durable goods	Non-durable goods					
<b>TOTAL</b>										
Total, 16 years and over (in thousands)	865	6,299	22,137	13,450	8,688	6,406	19,672	5,779	26,132	5,056
Percent	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
16 to 19 years	4.0	7.5	5.0	4.6	5.6	3.1	17.5	5.4	6.2	3.0
20 years and over	96.0	92.5	95.0	95.4	94.4	96.9	82.5	94.6	93.8	97.0
20 to 24 years	16.0	17.1	14.5	14.8	14.0	12.3	17.1	16.0	13.3	8.7
25 years and over	80.0	75.4	80.5	80.6	80.4	84.6	65.4	78.5	80.5	88.4
25 to 54 years	69.5	63.1	66.3	66.8	65.6	71.5	51.9	63.5	65.6	71.9
55 years and over	10.5	12.3	14.2	13.8	14.8	13.0	13.5	15.0	15.0	16.5
<b>Males, 16 years and over</b>	<b>88.3</b>	<b>92.7</b>	<b>69.1</b>	<b>74.9</b>	<b>60.1</b>	<b>75.6</b>	<b>54.0</b>	<b>42.4</b>	<b>40.4</b>	<b>65.7</b>
16 to 19 years	3.5	7.0	3.2	3.2	3.3	2.1	8.7	1.2	2.7	1.2
20 years and over	84.9	85.6	65.9	71.8	56.8	73.5	45.3	41.2	37.7	64.5
20 to 24 years	13.8	16.0	9.5	10.6	7.9	8.2	8.9	4.0	4.8	4.0
25 years and over	71.0	69.6	56.3	61.2	48.9	65.3	36.4	37.2	32.9	60.5
25 to 54 years	61.5	58.2	46.2	50.3	39.9	54.4	28.8	28.3	26.3	49.3
55 years and over	9.5	11.5	10.1	10.9	9.0	10.9	7.6	8.9	6.6	11.2
<b>Females, 16 years and over</b>	<b>11.8</b>	<b>7.4</b>	<b>30.9</b>	<b>25.1</b>	<b>39.9</b>	<b>24.4</b>	<b>46.0</b>	<b>57.6</b>	<b>59.6</b>	<b>34.2</b>
16 to 19 years	.6	.5	1.8	1.4	2.3	1.0	8.8	4.3	3.5	1.7
20 years and over	11.2	6.8	29.1	23.6	37.6	23.4	37.2	53.4	56.1	32.5
20 to 24 years	2.2	1.1	4.9	4.2	6.1	4.1	8.2	12.0	8.5	4.7
25 years and over	9.0	5.7	24.2	19.4	31.5	19.3	29.0	41.3	47.7	27.9
25 to 54 years	8.0	4.9	20.1	16.5	25.7	17.1	23.1	35.2	39.3	22.6
55 years and over	1.0	.8	4.1	2.9	5.8	2.1	5.9	6.1	8.4	5.2
<b>White</b>										
Males, 16 years and over	85.2	84.8	61.7	67.2	53.3	66.4	49.4	38.9	35.8	57.2
16 to 19 years	3.4	6.6	3.0	2.9	3.0	1.9	8.1	1.0	2.4	.9
20 years and over	81.8	78.2	58.8	64.3	50.3	64.5	41.3	37.9	33.4	56.3
20 to 24 years	13.4	14.8	8.4	9.4	6.9	7.2	8.0	3.4	4.1	3.4
25 years and over	68.4	63.4	50.4	54.9	43.4	57.3	33.3	34.5	29.3	52.9
25 to 54 years	59.1	53.0	41.1	44.9	35.2	47.4	26.2	26.1	23.4	43.0
55 years and over	9.4	10.5	9.3	10.0	8.2	10.0	7.1	8.4	5.9	9.9
<b>Females, 16 years and over</b>	<b>10.9</b>	<b>7.0</b>	<b>26.8</b>	<b>21.9</b>	<b>34.3</b>	<b>20.9</b>	<b>42.4</b>	<b>51.8</b>	<b>51.3</b>	<b>27.7</b>
16 to 19 years	.5	.5	1.6	1.3	2.1	.9	8.2	3.9	3.1	1.3
20 years and over	10.4	6.5	25.2	20.6	32.3	20.0	34.2	47.9	48.2	26.4
20 to 24 years	2.1	1.0	4.2	3.7	5.2	3.4	7.5	10.7	7.4	3.6
25 years and over	8.3	5.5	20.9	16.9	27.1	16.6	26.7	37.3	40.8	22.8
25 to 54 years	7.3	4.7	17.1	14.1	21.7	14.6	21.1	31.4	33.4	18.0
55 years and over	1.0	.8	3.8	2.8	5.4	2.0	5.6	5.9	7.4	4.8
<b>Black and other</b>										
Males, 16 years and over	3.1	7.8	7.4	7.8	6.8	9.2	4.7	3.4	4.6	8.5
16 to 19 years	.1	.4	.3	.2	.3	.3	.7	.2	.3	.3
20 years and over	3.0	7.4	7.1	7.5	6.5	9.0	4.0	3.3	4.3	8.2
20 to 24 years	.3	1.2	1.1	1.2	1.0	1.0	.9	.5	.7	.6
25 years and over	2.7	6.2	6.0	6.3	5.5	8.0	3.1	2.8	3.6	7.6
25 to 54 years	2.4	5.2	5.1	5.4	4.7	7.0	2.6	2.3	2.9	6.3
55 years and over	.2	1.0	.8	.9	.8	1.0	.5	.5	.7	1.3
<b>Females, 16 years and over</b>	<b>1.0</b>	<b>.3</b>	<b>4.1</b>	<b>3.1</b>	<b>5.5</b>	<b>3.5</b>	<b>3.6</b>	<b>5.8</b>	<b>8.4</b>	<b>6.6</b>
16 to 19 years	.1	—	.1	.1	.2	.1	.6	.3	.4	.4
20 years and over	.9	.3	3.9	3.0	5.3	3.4	3.0	5.5	8.0	6.1
20 to 24 years	.1	.1	.7	.5	.9	.7	.7	1.4	1.1	1.1
25 years and over	.8	.2	3.3	2.5	4.4	2.7	2.3	4.1	6.9	5.1
25 to 54 years	.8	.2	3.0	2.4	4.0	2.5	2.0	3.9	5.9	4.6
55 years and over	—	—	.2	.1	.4	.1	.3	.2	1.0	.5

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

# HOUSEHOLD DATA ANNUAL AVERAGES

## 30. Employed persons by detailed industry, sex, and race

(Numbers in thousands)

				1979								1979			
Industries				Total employed	Percent of total		Industries				Total employed	Percent of total			
					Females	Black and other						Females	Black and other		
Total, 16 years and over				96,945	41.7	11.3	Nondurable goods industries—Continued								
Agriculture, forestry, and fisheries				3,455	19.8	9.0	Tobacco manufactures				64	28.1	26.6		
Agricultural production				2,759	18.8	8.8	Textile mill products				823	46.4	16.4		
Agricultural services, except horticultural				268	41.4	8.6	Knitting mills				187	65.2	12.3		
Horticultural services				271	8.5	11.8	Yarn, thread, and fabric mills				480	42.9	18.1		
Forestry				94	26.6	6.4	Miscellaneous textile mill products				55	36.4	20.0		
Fisheries				63	9.5	11.1	Apparel and other fabricated textile products				1,279	79.1	17.5		
Mining				865	11.8	4.2	Apparel and accessories				1,119	81.4	17.4		
Metal mining				97	6.2	1.0	Miscellaneous fabricated textile products				161	62.7	18.0		
Coal mining				245	4.5	2.9	Paper and allied products				726	22.2	9.6		
Crude petroleum and natural gas extraction				410	18.5	5.1	Pulp, paper, and paperboard mills				315	11.4	6.7		
Nonmetallic mining and quarrying, except fuel				114	7.9	6.1	Miscellaneous paper and pulp products				210	35.2	11.0		
Construction				6,299	7.4	8.2	Paperboard containers and boxes				201	25.4	12.9		
General building contractors				1,747	7.1	7.5	Printing, publishing, and allied industries				1,507	38.8	8.7		
General contractors, except building				1,088	6.8	10.1	Newspaper publishing and printing				472	36.7	7.4		
Special trade contractors				3,038	7.4	7.3	Printing, publishing, and allied industries, except newspapers				1,035	39.8	9.3		
Not specified construction				426	9.6	11.5	Chemicals and allied products				1,217	25.4	11.7		
Manufacturing				22,137	30.9	11.5	Industrial chemicals				493	17.2	11.0		
Durable goods				13,450	25.1	10.9	Plastics, synthetics and resins, except fibers				78	20.5	11.5		
Lumber and wood products, except furniture				730	12.1	16.0	Synthetic fibers				82	25.6	11.0		
Logging				161	3.7	21.1	Drugs and medicines				181	40.3	9.9		
Sawmills, planing mills, and mill work				432	12.3	14.4	Soaps and cosmetics				149	43.6	11.4		
Miscellaneous wood products				137	21.9	15.3	Paints, varnishes, and related products				77	22.1	11.7		
Furniture and fixtures				567	34.0	8.8	Agricultural chemicals				57	26.3	17.5		
Stone, clay, and glass products				706	19.4	12.3	Miscellaneous chemicals				99	18.2	17.2		
Glass and glass products				221	29.4	15.4	Petroleum and coal products				256	16.1	11.8		
Cement, concrete, gypsum, and plaster products				230	9.1	11.3	Petroleum refining				225	16.9	11.1		
Miscellaneous nonmetallic mineral and stone products				176	17.6	7.4	Rubber and miscellaneous plastic products				731	34.2	10.3		
Primary metal industries				1,262	11.7	15.1	Rubber products				323	25.7	9.9		
Blast furnaces, steelworks, rolling and finishing mills				501	9.0	14.4	Miscellaneous plastic products				408	40.9	10.3		
Other primary iron and steel industries				340	10.0	20.9	Leather and leather products				275	63.3	8.4		
Primary aluminum industries				189	12.2	10.1	Footwear, except rubber				191	67.0	7.3		
Other primary nonferrous industries				232	20.3	12.5	Leather products, except footwear				66	63.6	7.6		
Fabricated metal products				1,495	19.9	9.7	Transportation, communications, and other public utilities				6,406	24.4	12.7		
Cutlery, hand tools and other hardware				177	33.9	13.6	Transportation				3,706	19.2	12.8		
Fabricated structural metal products				571	14.0	8.1	Railroads and railway express service				605	6.3	9.1		
Screw machine products				105	21.0	5.7	Street railways and bus lines				534	37.1	21.9		
Metal stamping				162	24.7	10.5	Taxicab service				114	13.2	30.7		
Miscellaneous fabricated metal products				478	19.9	10.9	Trucking service				1,407	10.2	9.3		
Machinery, except electrical				2,747	19.8	6.9	Warehousing and storage				148	23.6	12.8		
Engines and turbines				125	14.4	4.8	Water transportation				190	11.6	19.5		
Farm machinery and equipment				196	14.3	8.2	Air transportation				492	30.3	12.2		
Construction and material handling machines				396	13.9	7.6	Services incidental to transportation				197	55.3	9.1		
Metalworking machinery				387	16.5	5.7	Communications				1,371	47.3	12.7		
Office and accounting machines				131	31.3	9.9	Radio broadcasting and television				180	35.0	10.6		
Electronic computing equipment				415	33.0	8.4	Telephone (wire and radio)				1,122	50.0	13.4		
Machinery, except electrical, n.e.c.				1,097	18.4	6.3	Telegraph and miscellaneous communications services				70	35.7	7.1		
Electrical machinery, equipment, and supplies				2,293	43.0	10.3	Utilities and sanitary services				1,328	15.2	12.7		
Household appliances				158	40.5	8.9	Electric light and power				560	14.5	11.1		
Radio, T.V., and communication equipment				606	41.7	13.2	Electric-gas utilities				174	20.1	10.3		
Electrical machinery, equipment, and supplies, n.e.c.				1,519	43.8	9.4	Gas and steam supply systems				154	20.8	7.8		
Transportation equipment				2,298	16.6	14.1	Water supply				169	16.6	11.8		
Motor vehicles and motor vehicle equipment				1,238	17.4	15.8	Sanitary services				227	7.0	22.5		
Aircraft and parts				633	18.5	9.5	Wholesale and retail trade				19,672	46.0	8.3		
Ship and boat building and repairing				264	10.6	18.6	Wholesale trade				3,775	25.5	7.7		
Mobile dwellings and campers				64	14.1	7.8	Motor vehicles and equipment				250	22.0	7.2		
Professional and photographic equipment, and watches				584	45.0	7.9	Drugs, chemicals, and allied products				191	29.3	5.8		
Scientific and controlling instruments				186	43.0	8.6	Dry goods and apparel				106	40.6	10.4		
Optical and health services supplies				223	54.7	5.8	Food and related products				564	24.3	10.5		
Photographic equipment and supplies				136	27.9	9.6	Farm products—raw materials				129	25.6	6.2		
Ordnance				202	27.7	8.4	Electrical goods				216	29.2	7.4		
Miscellaneous manufacturing industries				567	48.3	10.1	Hardware, plumbing, and heating supplies				172	22.7	7.0		
Nondurable goods industries				8,688	39.9	12.3	Machinery equipment and supplies				839	24.6	4.9		
Food and kindred products				1,789	29.2	12.3	Metals and minerals, n.e.c.				120	22.5	10.0		
Meat products				396	31.1	14.9	Petroleum products				179	25.7	5.6		
Dairy products				205	19.5	6.8	Scrap and waste materials				117	8.5	15.4		
Canning and preserving fruits, vegetables, and seafood				281	44.1	11.7	Alcoholic beverages				124	18.5	9.7		
Grain-mill products				145	23.4	7.6	Paper and its products				102	27.5	5.9		
Bakery products				257	26.8	15.2	Lumber and construction materials				167	18.0	6.6		
Confectionery and related products				80	51.3	21.3	Wholesalers, n.e.c.				491	34.0	9.2		
Beverage industries				237	14.3	10.1	Retail trade				15,898	50.8	8.4		
Miscellaneous food preparation and kindred products				187	30.5	12.3	Lumber and building material retailing				476	22.3	5.3		
							Hardware and farm equipment stores				311	29.3	3.5		
							Department and mail order establishments				2,048	69.3	10.4		

# HOUSEHOLD DATA ANNUAL AVERAGES

## 30. Employed persons by detailed industry, sex, and race—Continued

(Numbers in thousands)

Industries	1979			Industries	1979		
	Total employed	Percent of total			Total employed	Percent of total	
		Females	Black and other			Females	Black and other
Wholesale and retail trade—Continued				Service industries—Continued			
Retail trade—Continued				Business and repair services—Continued			
Limited price variety stores .....	177	75.1	8.5	Automobile services, except repair .....	222	22.5	14.0
Vending machine operators .....	74	35.1	5.4	Automobile repair and related services .....	711	9.3	8.2
Direct selling establishments .....	332	77.4	4.8	Electrical repair shops .....	139	12.9	4.3
Miscellaneous general merchandise stores .....	195	67.7	6.2	Miscellaneous repair services .....	360	14.2	5.0
Grocery stores .....	2,114	44.7	8.2	Personal services .....	3,800	73.7	20.8
Dairy products stores .....	46	58.7	6.5	Private households .....	1,301	88.1	31.4
Retail bakeries .....	135	63.7	6.7	Hotels and motels .....	720	58.9	23.1
Food stores, n.e.c. ....	175	50.9	9.1	Lodging places, except hotels and motels .....	376	77.9	8.5
Motor vehicle dealers .....	944	14.7	5.7	Laundering, cleaning, and other garment services .....	369	59.6	24.1
Tire, battery, and accessory dealers .....	340	16.5	5.9	Beauty shops .....	586	88.7	9.7
Gasoline service stations .....	600	13.7	6.2	Barber shops .....	112	15.2	14.3
Miscellaneous vehicle dealers .....	123	21.1	3.3	Dressmaking shops .....	43	93.0	9.3
Apparel and accessory stores, except shoe stores .....	696	76.6	7.9	Miscellaneous personal services .....	276	48.9	6.2
Shoe stores .....	134	50.0	7.5	Entertainment and recreation services .....	1,026	38.4	8.8
Furniture and home furnishings stores .....	480	35.6	5.2	Theaters and motion pictures .....	339	35.1	8.0
Household appliances, T.V., and radio stores .....	282	26.2	4.6	Bowling alleys, billiard and pool parlors .....	84	36.9	4.8
Eating and drinking places .....	4,131	60.7	11.5	Miscellaneous entertainment and recreation services .....	603	40.5	9.8
Drug stores .....	445	62.9	7.2	Professional and related services .....	18,817	65.6	13.4
Liquor stores .....	145	30.3	13.8	Offices of physicians .....	755	66.5	4.5
Farm and garden supply stores .....	160	30.0	3.8	Offices of dentists .....	385	67.8	3.4
Jewelry stores .....	148	60.1	10.8	Hospitals .....	3,843	76.5	19.4
Fuel and ice dealers .....	111	20.7	3.6	Convalescent institutions .....	1,035	88.3	18.4
Retail florists .....	145	66.9	4.8	Offices of health practitioners, n.e.c. ....	84	58.3	3.6
Miscellaneous retail stores .....	917	57.7	6.3	Health services, n.e.c. ....	747	70.8	15.9
Finance, insurance, and real estate .....	5,779	57.6	9.3	Legal services .....	686	49.6	3.5
Banking .....	1,563	71.0	11.3	Elementary and secondary schools .....	5,368	70.9	13.0
Credit agencies .....	510	67.6	6.3	Colleges and universities .....	2,048	48.9	12.1
Security, commodity brokerage, and investment companies .....	294	39.5	7.1	Libraries .....	155	82.6	9.7
Insurance .....	1,839	56.0	9.2	Educational services, n.e.c. ....	280	67.5	8.2
Real estate, including real estate-insurance-law offices .....	1,573	46.3	8.6	Museums, art galleries, and zoos .....	53	56.6	13.2
Service industries .....	27,275	61.2	13.9	Religious organizations .....	617	40.4	7.9
Business and repair services .....	3,632	32.2	10.7	Welfare services .....	795	72.2	25.9
Advertising .....	167	43.7	4.8	Residential welfare facilities .....	124	66.9	14.5
Services to dwellings and other buildings .....	370	35.4	26.2	Nonprofit membership organizations .....	434	55.8	10.8
Commercial research, development, and testing labs .....	144	27.8	4.9	Engineering and architectural services .....	526	19.2	6.1
Employment and temporary help agencies .....	210	70.5	13.3	Accounting, auditing, and bookkeeping services .....	464	46.1	4.7
Business management and consulting services .....	281	52.0	6.0	Miscellaneous professional and related services .....	374	42.8	7.8
Computer programming services .....	190	38.4	12.1	Public administration .....	5,056	34.2	15.1
Detective and protective services .....	209	18.2	18.2	Postal service .....	678	23.0	20.1
Business services, n.e.c. ....	629	53.7	8.9	Federal public administration .....	1,585	37.2	17.0
				State public administration .....	909	40.7	12.5
				Local public administration .....	1,885	32.6	12.8

NOTE: N.E.C. is an abbreviation for "not elsewhere classified" and designates broad categories of industries which cannot be more specifically identified.

31. 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>	
	1978	1979	1978	1979	1978	1979	1978	1979
Total, 16 years and over . . . . .	5,493	5,658	5,338	5,514	2,654	2,772	2,152	2,208
Vacation . . . . .	2,942	3,143	2,904	3,100	1,934	2,056	778	851
Illness . . . . .	1,418	1,400	1,383	1,367	548	544	714	711
Bad weather . . . . .	236	196	190	162	--	--	--	--
Industrial dispute . . . . .	99	122	98	121	--	--	--	--
All other reasons . . . . .	799	798	763	764	172	172	661	645
Males, 16 years and over . . . . .	2,991	3,031	2,856	2,907	1,578	1,598	968	993
Vacation . . . . .	1,529	1,615	1,497	1,581	1,146	1,180	247	291
Illness . . . . .	811	786	780	758	336	324	372	368
All other reasons <sup>3</sup> . . . . .	652	630	580	568	96	94	349	335
Females, 16 years and over . . . . .	2,502	2,627	2,482	2,607	1,075	1,174	1,184	1,214
Vacation . . . . .	1,413	1,528	1,407	1,520	788	876	531	561
Illness . . . . .	608	614	604	608	212	220	342	342
All other reasons <sup>3</sup> . . . . .	481	486	471	480	76	78	311	310

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

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

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

32. Persons at work by type of industry and hours of work

Hours of work	1979					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
Total, 16 years and over . . . . .	91,287	88,133	3,154	100.0	100.0	100.0
1-34 hours . . . . .	22,918	22,037	881	25.1	25.0	27.9
1-4 hours . . . . .	744	701	43	.8	.8	1.4
5-14 hours . . . . .	4,056	3,846	210	4.4	4.4	6.7
15-29 hours . . . . .	10,904	10,465	439	11.9	11.5	13.9
30-34 hours . . . . .	7,214	7,025	189	7.9	8.0	6.0
35 hours and over . . . . .	68,369	66,095	2,274	74.9	75.0	72.1
35-39 hours . . . . .	6,409	6,274	135	7.0	7.1	4.3
40 hours . . . . .	37,198	36,700	498	40.7	41.6	15.8
41 hours and over . . . . .	24,762	23,121	1,641	27.1	26.2	52.0
41 to 48 hours . . . . .	9,672	9,430	242	10.6	10.7	7.7
49 to 59 hours . . . . .	8,439	8,004	435	9.2	9.1	13.8
60 hours and over . . . . .	6,651	5,687	964	7.3	6.5	30.6
Average hours, total at work . . . . .	38.9	38.6	46.3	--	--	--
Average hours, workers on full-time schedules . . . . .	43.1	42.7	53.9	--	--	--



# HOUSEHOLD DATA ANNUAL AVERAGES

## 33. 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	1979					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	22,918	8,183	14,734	22,037	7,876	14,161
Economic reasons	3,478	1,429	2,049	3,281	1,325	1,956
Slack work	1,602	1,003	599	1,470	916	554
Material shortages or repairs to plant and equipment	98	98	--	98	94	--
New job started during week	226	226	--	218	218	--
Job terminated during week	102	102	--	97	57	--
Could find only part-time work	1,450	--	1,450	1,402	--	1,402
Other reasons	19,440	6,755	12,685	18,754	6,549	12,205
Does not want, or unavailable for, full-time work	10,481	--	10,481	10,118	--	10,118
Vacation	1,062	1,062	--	1,046	1,046	--
Illness	1,828	1,642	186	1,783	1,618	165
Bad weather	671	671	--	571	571	--
Industrial dispute	40	40	--	40	40	--
Legal or religious holiday	1,737	1,737	--	1,731	1,731	--
Full time for this job	1,445	--	1,445	1,395	--	1,395
All other reasons	2,177	1,603	574	2,072	1,545	527
Average hours:						
Economic reasons	21.5	23.6	20.1	21.6	23.7	20.2
Other reasons	21.7	27.0	18.8	21.7	27.1	18.8
Worked 30 to 34 hours:						
Economic reasons	1,016	581	435	970	548	422
Other reasons	6,198	4,012	2,186	6,055	3,939	2,116

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

[Numbers in thousands]

Industry	1979								Average hours, total at work	Average hours, workers on full-time schedules
	Total at work	Full- or part-time status								
		On part time for economic reasons	On voluntary part time	On full-time schedules						
				Total	40 hours or less	41 to 48 hours	49 hours or more			
Total, 16 years and over <sup>1</sup>	88,133	3,281	12,205	72,647	49,526	9,430	13,691	38.6	42.7	
Wage and salary workers	81,502	2,923	11,006	67,573	47,317	8,856	11,400	38.4	42.2	
Construction	4,866	265	244	4,357	3,180	488	689	39.1	41.3	
Manufacturing	20,499	500	667	19,332	13,454	3,020	2,858	40.9	42.1	
Durable goods	12,444	190	282	11,972	8,301	1,909	1,762	41.3	42.1	
Nondurable goods	8,056	310	385	7,361	5,154	1,111	1,096	40.3	42.0	
Transportation and public utilities	5,715	147	367	5,201	3,471	666	1,064	41.4	43.4	
Wholesale and retail trade	16,852	912	4,137	11,803	7,370	1,915	2,518	36.4	43.4	
Finance, insurance, and real estate	5,091	88	520	4,483	3,385	482	616	38.5	41.1	
Service industries	22,900	930	4,803	17,167	12,580	1,737	2,850	36.0	41.8	
Private households	1,180	163	632	385	273	31	81	23.4	43.6	
All other industries	21,720	767	4,171	16,782	12,307	1,706	2,769	36.7	41.8	
Public administration	4,795	63	255	4,477	3,442	435	600	40.0	41.4	
Self-employed workers	6,176	344	1,012	4,820	2,071	544	2,205	41.9	48.7	
Unpaid family workers	455	14	187	254	137	30	87	36.0	46.8	

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

# HOUSEHOLD DATA ANNUAL AVERAGES

## 35. 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	1979							Average hours, total at work	Average hours, workers on full-time schedules
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules					
				Total	40 hours or less	41 hours or more			
<b>TOTAL</b>									
Both sexes, 16 years and over	88,133	3,281	12,205	72,647	49,526	23,121	38.6	42.7	
16 to 21 years	12,336	923	4,215	7,198	5,526	1,672	31.2	40.7	
16 to 19 years	7,338	616	3,363	3,359	2,639	720	27.9	40.2	
16 to 17 years	2,948	240	2,078	630	512	118	21.3	39.0	
18 to 19 years	4,390	376	1,285	2,729	2,126	603	32.3	40.5	
20 years and over	80,795	2,666	8,842	69,287	46,885	22,402	39.6	42.8	
20 to 24 years	12,944	678	1,639	10,627	7,744	2,883	37.7	41.6	
25 years and over	67,851	1,989	7,204	58,658	39,138	19,520	40.0	43.0	
25 to 44 years	40,703	1,196	3,620	35,887	23,523	12,364	40.5	43.2	
45 to 64 years	24,744	690	2,414	21,640	14,820	6,820	40.1	42.9	
65 years and over	2,404	102	1,169	1,133	798	335	29.0	42.4	
<b>Males, 16 years and over</b>	<b>50,947</b>	<b>1,444</b>	<b>3,692</b>	<b>45,811</b>	<b>27,878</b>	<b>17,933</b>	<b>41.7</b>	<b>44.2</b>	
16 to 21 years	6,432	443	1,940	4,049	2,866	1,183	33.0	41.7	
16 to 19 years	3,803	303	1,593	1,907	1,397	510	29.5	41.1	
16 to 17 years	1,536	131	1,022	383	303	80	22.5	39.5	
18 to 19 years	2,267	171	571	1,525	1,096	429	34.2	41.5	
20 years and over	47,144	1,141	2,099	43,904	26,481	17,423	42.6	44.3	
20 to 24 years	6,929	313	623	5,993	3,939	2,054	39.8	42.9	
25 years and over	40,215	827	1,476	37,912	22,542	15,370	43.1	44.5	
25 to 44 years	24,006	497	453	23,056	13,320	9,736	43.5	44.7	
45 to 64 years	14,779	276	393	14,110	8,719	5,391	43.1	44.2	
65 years and over	1,431	53	630	748	505	243	30.5	42.8	
<b>Females, 16 years and over</b>	<b>37,186</b>	<b>1,838</b>	<b>8,513</b>	<b>26,835</b>	<b>21,646</b>	<b>5,189</b>	<b>34.4</b>	<b>40.2</b>	
16 to 21 years	5,904	480	2,275	3,149	2,660	489	29.3	39.4	
16 to 19 years	3,536	313	1,770	1,453	1,242	211	26.2	39.0	
16 to 17 years	1,412	109	1,056	247	209	38	19.9	38.2	
18 to 19 years	2,123	204	714	1,205	1,033	172	30.3	39.2	
20 years and over	33,651	1,526	6,743	25,382	20,404	4,978	35.3	40.2	
20 to 24 years	6,016	365	1,015	4,636	3,807	829	35.4	39.9	
25 years and over	27,634	1,160	5,727	20,747	16,599	4,148	35.3	40.3	
25 to 44 years	16,697	697	3,167	12,833	10,205	2,628	35.6	40.3	
45 to 64 years	9,965	415	2,021	7,529	6,102	1,427	35.4	40.3	
65 years and over	973	47	539	387	295	92	26.7	41.5	
<b>RACE</b>									
White, 16 years and over	78,184	2,712	11,119	64,353	42,794	21,559	38.8	42.9	
Males	45,739	1,203	3,323	41,213	24,380	16,833	41.9	44.4	
Females	32,444	1,508	7,795	23,141	18,415	4,726	34.3	40.3	
Black and other, 16 years and over	9,950	570	1,086	8,294	6,732	1,562	37.3	40.8	
Males	5,208	239	368	4,601	3,502	1,099	39.2	41.8	
Females	4,742	330	718	3,694	3,230	464	35.2	39.5	
<b>MARITAL STATUS</b>									
<b>Males, 16 years and over:</b>									
Married, spouse present	35,201	631	1,144	33,426	19,530	13,896	43.4	44.6	
Widowed, divorced, or separated	3,907	151	191	3,565	2,187	1,378	42.1	44.2	
Single (never married)	11,839	662	2,356	8,821	6,162	2,659	36.3	42.3	
<b>Females, 16 years and over:</b>									
Married, spouse present	20,586	891	4,966	14,729	12,004	2,725	34.3	40.0	
Widowed, divorced, or separated	7,007	355	1,002	5,650	4,398	1,252	36.7	40.7	
Single (never married)	9,593	591	2,545	6,457	5,246	1,211	32.9	40.1	

# HOUSEHOLD DATA ANNUAL AVEAGES

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

(Number in thousands)

Occupational group and sex	1979								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full- time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over .....	88,695	3,323	12,309	73,063	49,746	9,484	13,833	38.6	38.9
White-collar workers .....	46,479	1,068	6,408	39,003	26,114	4,628	8,261	39.2	43.0
Professional and technical .....	13,902	239	1,544	12,119	8,051	1,422	2,646	39.9	43.1
Managers and administrators, except farm .....	10,010	106	420	9,484	4,562	1,352	3,570	45.6	47.0
Sales workers .....	5,850	245	1,419	4,186	2,493	556	1,137	36.8	43.9
Clerical workers .....	16,716	479	3,025	13,212	11,005	1,298	909	35.6	39.8
Blue-collar workers .....	30,113	1,362	2,067	26,684	18,099	4,096	4,489	39.9	42.5
Craft and kindred workers .....	12,130	393	451	11,286	7,320	1,820	2,146	41.3	42.9
Operatives, except transport .....	10,223	495	568	9,160	6,703	1,383	1,074	39.4	41.5
Transport equipment operatives .....	3,362	147	271	2,944	1,601	472	871	42.4	45.5
Nonfarm laborers .....	4,397	328	777	3,292	2,472	421	399	35.4	41.0
Service workers .....	12,103	893	3,834	7,376	5,533	760	1,083	32.9	42.0
Private household workers .....	1,035	131	551	353	247	30	76	24.1	43.7
Other service workers .....	11,068	761	3,283	7,024	5,288	730	1,006	33.7	41.9
Males, 16 years and over .....	51,352	1,476	3,747	46,129	28,034	6,700	11,395	41.6	40.8
White-collar workers .....	22,160	285	1,327	20,548	11,255	2,765	6,528	43.6	45.6
Professional and technical .....	8,053	88	448	7,517	4,531	905	2,081	42.9	44.6
Managers and administrators, except farm .....	7,569	68	175	7,326	3,197	1,039	3,090	47.1	48.0
Sales workers .....	3,251	64	345	2,842	1,463	420	959	42.2	45.5
Clerical workers .....	3,286	66	359	2,861	2,062	401	398	38.8	41.7
Blue-collar workers .....	24,609	977	1,464	22,168	14,440	3,531	4,197	40.7	43.0
Craft and kindred workers .....	11,440	364	351	10,725	6,907	1,736	2,082	41.6	43.0
Operatives, except transport .....	6,168	202	286	5,680	3,823	961	896	40.9	42.6
Transport equipment operatives .....	3,101	123	167	2,811	1,510	451	850	43.3	45.7
Nonfarm laborers .....	3,901	288	661	2,952	2,202	382	366	35.6	41.1
Service workers .....	4,583	214	956	3,413	2,339	404	670	37.1	43.6
Private household workers .....	26	3	12	11	7	1	3	25.8	49.8
Other service workers .....	4,557	211	944	3,402	2,333	402	667	37.2	43.6
Females, 16 years and over .....	37,342	1,848	8,562	26,932	21,710	2,785	2,437	34.4	35.7
White-collar workers .....	24,319	784	5,082	18,453	14,857	1,863	1,733	35.2	40.2
Professional and technical .....	5,848	151	1,097	4,600	3,519	517	564	35.8	40.5
Managers and administrators, except farm .....	2,441	39	245	2,157	1,363	314	480	41.0	43.7
Sales workers .....	2,599	181	1,074	1,344	1,030	136	178	30.1	40.5
Clerical workers .....	13,431	414	2,666	10,351	8,943	897	511	34.9	39.2
Blue-collar workers .....	5,503	386	602	4,515	3,657	565	293	36.6	39.9
Craft and kindred workers .....	690	28	100	562	414	84	64	37.2	41.0
Operatives, except transport .....	4,055	293	282	3,480	2,881	422	177	37.2	39.5
Transport equipment operatives .....	261	24	105	132	90	21	21	31.2	42.1
Nonfarm laborers .....	496	40	116	340	270	39	31	33.4	40.2
Service workers .....	7,520	678	2,878	3,964	3,196	357	411	30.3	40.6
Private household workers .....	1,010	128	539	343	240	29	74	24.1	43.5
Other service workers .....	6,511	550	2,339	3,622	2,956	328	338	31.2	40.4

# HOUSEHOLD DATA ANNUAL AVERAGES

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

[Numbers in thousands]

Employment status	1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population .....	7,925	4,032	3,892	6,617	3,375	3,242	1,307	657	650
Civilian labor force .....	1,622	894	729	1,481	811	670	141	83	58
Employed .....	1,372	746	626	1,292	696	596	80	50	30
Agriculture .....	152	127	26	145	121	24	7	6	2
Nonagricultural industries .....	1,220	619	601	1,148	575	572	73	44	28
Unemployed .....	250	148	102	189	115	74	61	33	28
Unemployment rate .....	15.4	16.6	14.0	12.8	14.2	11.0	43.3	39.8	48.3
Not in labor force .....	6,302	3,138	3,164	5,136	2,564	2,572	1,166	574	592
Keeping house .....	112	14	98	91	12	79	21	2	19
Going to school .....	4,977	2,505	2,471	4,045	2,039	2,005	932	466	466
Unable to work .....	10	5	5	9	5	4	2	--	1
All other reasons .....	1,204	615	589	992	509	484	212	106	106

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

Characteristics	1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
<b>Total</b> .....	1,372	746	626	100.0	100.0	100.0
Nonagricultural industries .....	1,220	619	601	88.9	83.0	96.0
Wage and salary workers .....	1,122	551	571	81.7	73.9	91.2
Private household workers .....	423	106	317	30.8	14.2	50.6
Government workers .....	69	39	30	5.0	5.2	4.8
Other wage and salary workers .....	630	406	224	45.9	54.4	35.8
Self-employed workers .....	87	63	25	6.3	8.4	4.0
Unpaid family workers .....	11	6	5	.8	.8	.8
Agriculture .....	152	127	26	11.1	17.0	4.2
Wage and salary workers .....	84	69	14	6.1	9.2	2.2
Self-employed workers .....	24	22	1	1.7	2.9	.2
Unpaid family workers .....	45	35	10	3.3	4.7	1.6
<b>OCCUPATION</b>						
<b>Total</b> .....	1,372	746	626	100.0	100.0	100.0
White-collar workers .....	335	215	119	24.4	28.8	19.0
Professional and technical .....	17	9	8	1.2	1.2	1.3
Managers and administrators, except farm .....	1	1	--	.1	.1	--
Sales workers .....	237	183	53	17.3	24.5	8.5
Clerical workers .....	79	22	57	5.8	2.9	9.1
Blue-collar workers .....	290	260	30	21.2	34.9	4.8
Craft and kindred workers .....	21	20	1	1.5	2.7	.2
Operatives, except transport .....	39	29	10	2.8	3.9	1.6
Transport equipment operatives .....	8	7	1	.6	.9	.2
Nonfarm laborers .....	222	204	18	16.2	27.3	2.9
Service workers .....	626	171	454	45.7	22.9	72.6
Private household workers .....	340	24	317	24.8	3.2	50.7
Other service workers .....	285	148	137	20.8	19.8	21.9
Farm workers .....	122	99	23	8.9	13.3	3.7
Farmers and farm managers .....	4	3	1	.3	.4	.2
Farm laborers and supervisors .....	118	96	22	8.6	12.9	3.5

# HOUSEHOLD DATA ANNUAL AVERAGES

## 39. 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	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
<b>TOTAL</b>										
Total not in labor force	58,521	58,623	6,907	6,867	4,490	4,419	22,399	22,043	24,725	25,294
Do not want a job now	53,193	53,328	5,531	5,459	3,691	3,583	19,840	19,536	24,132	24,749
Current activity:										
Going to school	6,143	5,965	4,107	4,043	1,431	1,342	596	556	11	22
Ill, disabled	4,532	4,531	48	40	114	127	2,187	2,168	2,183	2,196
Keeping house	29,517	28,994	563	480	1,732	1,655	15,044	14,671	12,177	12,188
Retired	9,366	9,935	--	--	--	--	207	206	9,158	9,728
Other	3,635	3,903	813	896	414	459	1,806	1,935	603	615
Want a job now	5,328	5,293	1,377	1,410	799	836	2,559	2,505	594	544
Reason not looking:										
School attendance	1,374	1,427	963	992	249	263	158	168	3	4
Ill health, disability	720	743	27	31	52	54	465	487	177	170
Home responsibilities	1,226	1,240	76	76	215	250	895	881	41	33
Think cannot get job	845	750	133	123	117	101	416	376	180	152
Job-market factors	570	500	96	81	93	73	310	275	74	68
Personal factors	275	250	37	41	26	27	104	100	106	83
Other reasons <sup>1</sup>	1,163	1,133	178	188	166	168	625	593	193	185
<b>Males</b>										
Total not in labor force	16,634	16,931	3,093	3,124	1,309	1,275	3,105	3,153	9,127	9,379
Do not want a job now	14,948	15,248	2,441	2,449	1,055	1,029	2,598	2,665	8,857	9,104
Current activity:										
Going to school	3,071	2,976	2,013	1,983	777	728	282	260	--	6
Ill, disabled	2,449	2,453	23	21	64	62	1,228	1,214	1,135	1,156
Keeping house	270	285	12	13	8	9	62	69	189	193
Retired	7,247	7,479	--	--	--	--	179	175	7,067	7,301
Other	1,911	2,055	393	432	206	230	847	947	466	448
Want a job now	1,686	1,682	651	675	256	248	507	486	269	271
Reason not looking:										
School attendance	693	717	502	518	125	141	64	55	2	2
Ill health, disability	326	332	13	15	22	21	203	205	87	90
Think cannot get job	305	279	72	66	43	42	110	95	79	75
Other reasons <sup>1</sup>	362	354	64	76	66	44	130	131	101	104
<b>Females</b>										
Total not in labor force	41,887	41,692	3,814	3,743	3,181	3,144	19,294	18,890	15,598	15,915
Do not want a job now	38,243	38,079	3,089	3,008	2,640	2,558	17,241	16,871	15,274	15,642
Current activity:										
Going to school	3,072	2,988	2,094	2,060	654	615	314	297	11	14
Ill, disabled	2,082	2,078	24	18	52	67	958	954	1,049	1,040
Keeping house	29,246	28,709	551	467	1,725	1,647	14,982	14,602	11,987	11,994
Retired	2,119	2,456	--	--	--	--	28	29	2,091	2,427
Other	1,724	1,848	420	463	209	229	959	989	136	167
Want a job now	3,642	3,613	724	735	543	586	2,053	2,018	324	274
Reason not looking:										
School attendance	681	710	461	475	124	121	95	112	1	3
Ill health, disability	394	411	14	16	29	32	262	282	89	80
Home responsibilities	1,226	1,240	76	76	215	250	895	881	41	33
Think cannot get job	540	472	60	57	75	59	305	281	101	76
Other reasons	801	780	113	111	100	124	496	462	92	82

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

NOTE: Detail in tables 39, 40, and 42 may not add to not-in-labor-force totals because of differences in weighting patterns used in aggregating these data.

# HOUSEHOLD DATA ANNUAL AVERAGES

## 40. 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						Sex			
			16-24		25-59		60 and over		Males		Females	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
<b>WHITE</b>												
Total not in labor force	51,124	51,011	9,088	8,931	19,620	19,197	22,417	22,883	14,204	14,419	36,920	36,592
Do not want a job now	47,085	46,981	7,544	7,334	17,622	17,228	21,919	22,418	12,952	13,136	34,133	33,845
Current activity:												
Going to school	4,981	4,791	4,484	4,331	489	442	9	19	2,506	2,393	2,475	2,398
Ill, disabled	3,696	3,647	121	125	1,764	1,699	1,810	1,822	2,034	2,023	1,662	1,624
Keeping house	26,882	26,334	1,978	1,819	13,665	13,288	11,238	11,227	221	233	26,661	26,101
Retired	8,518	8,983	--	--	196	195	8,321	8,786	6,625	6,808	1,893	2,175
Other	3,008	3,226	961	1,059	1,508	1,604	541	564	1,566	1,679	1,442	1,547
Want a job now	4,037	4,028	1,546	1,596	2,000	1,969	496	463	1,251	1,283	2,786	2,745
Reason not looking:												
School attendance	1,012	1,046	890	920	119	121	3	5	516	527	496	519
Ill health, disability	519	524	52	53	335	344	133	127	236	251	283	273
Home responsibilities	947	963	190	216	720	715	38	32	--	--	947	963
Think cannot get job	589	542	144	135	293	276	152	129	203	203	386	339
Other reasons <sup>1</sup>	970	953	270	272	533	513	170	170	296	302	674	651
<b>BLACK AND OTHER</b>												
Total not in labor force	7,397	7,612	2,309	2,355	2,779	2,845	2,308	2,411	2,430	2,512	4,967	5,100
Do not want a job now	6,107	6,344	1,679	1,709	2,214	2,312	2,210	2,327	1,997	2,112	4,110	4,232
Current activity:												
Going to school	1,163	1,174	1,056	1,057	107	115	2	1	567	584	596	590
Ill, disabled	835	884	39	42	420	471	371	373	415	431	420	453
Keeping house	2,634	2,658	317	316	1,376	1,384	938	959	49	51	2,585	2,607
Retired	849	951	--	--	13	10	838	943	622	670	227	281
Other	626	677	267	294	298	332	61	51	344	376	282	301
Want a job now	1,290	1,267	632	647	562	537	98	84	433	398	857	869
Reason not looking:												
School attendance	361	380	322	334	39	46	--	--	176	189	185	191
Ill health, disability	201	218	28	33	131	142	44	44	90	80	111	138
Home responsibilities	280	278	102	109	175	167	2	2	--	--	280	278
Think cannot get job	255	209	105	87	123	100	27	22	101	76	154	133
Other reasons <sup>1</sup>	193	182	75	84	94	82	25	16	66	53	127	129

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

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

[In thousands]

1979							
Detailed reason for not seeking work	Total	Age in years				Race	
		16-19	20-24	25-59	60 and over	White	Black and other
TOTAL							
Personal factors:							
Employers think too young or old . . . . .	113	16	1	22	75	99	14
Lacks education or training . . . . .	94	21	17	54	3	65	29
Other personal handicap . . . . .	43	4	9	24	5	35	8
Job-market factors:							
Could not find job . . . . .	281	65	46	137	32	171	109
Thinks no job available . . . . .	219	16	27	138	36	171	48
Males							
Personal factors:							
Employers think too young or old . . . . .	53	11	1	4	38	44	9
Lacks education or training . . . . .	30	11	5	12	2	19	11
Other personal handicap . . . . .	17	3	5	8	2	14	3
Job-market factors:							
Could not find job . . . . .	106	33	23	37	12	64	41
Thinks no job available . . . . .	72	9	9	33	22	62	11
Females							
Personal factors:							
Employers think too young or old . . . . .	60	5	--	17	38	55	5
Lacks education or training . . . . .	64	10	12	43	1	46	18
Other personal handicap . . . . .	26	1	5	15	4	21	5
Job-market factors:							
Could not find job . . . . .	175	33	22	99	21	107	68
Thinks no job available . . . . .	146	8	18	105	14	109	37

# HOUSEHOLD DATA ANNUAL AVERAGES

## 42. 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					
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
Total, not in labor force	58,521	58,623	11,397	11,286	22,399	22,043	24,725	25,294	51,124	51,011	7,397	7,612
Never worked	9,232	9,057	4,601	4,482	2,140	2,127	2,490	2,448	7,382	7,170	1,850	1,887
Last worked over 5 years ago	28,538	29,166	304	272	11,324	11,168	16,912	17,728	25,556	26,023	2,982	3,144
Last worked 1 to 5 years ago	10,803	10,349	1,660	1,595	5,241	4,992	3,900	3,763	9,519	9,062	1,284	1,288
Left job during previous 12 months	9,946	10,046	4,831	4,937	3,692	3,756	1,423	1,354	8,666	8,756	1,280	1,290
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	44.7	46.0	60.2	62.0	39.2	39.4	6.3	5.9	45.8	46.8	37.7	40.7
Ill health, disability	7.9	8.2	2.2	2.2	12.1	13.6	16.3	15.1	7.5	7.6	10.5	12.1
Retirement, old age	7.9	7.7	--	--	3.4	2.9	46.6	49.1	8.5	8.2	4.1	4.0
Economic reasons	19.9	18.9	17.4	16.0	23.0	22.2	20.8	20.4	19.1	18.5	25.4	22.0
End of seasonal job	8.7	8.3	8.9	8.2	8.5	8.4	8.3	8.8	8.1	8.2	12.3	9.5
Slack work	5.1	5.0	3.6	3.6	7.0	6.9	5.1	4.6	4.8	4.9	6.7	5.9
End of temporary job	6.2	5.6	4.9	4.3	7.5	6.8	7.4	7.0	6.2	5.4	6.5	6.5
All other reasons	19.5	19.2	20.1	19.7	22.3	22.0	10.0	9.5	19.1	18.9	22.3	21.3
Males, not in labor force	16,634	16,931	4,402	4,399	3,105	3,153	9,127	9,379	14,204	14,419	2,430	2,512
Never worked	2,041	2,071	1,784	1,788	221	237	37	48	1,478	1,459	563	614
Last worked over 5 years ago	7,201	7,623	51	36	1,119	1,209	6,032	6,379	6,309	6,661	892	963
Last worked 1 to 5 years ago	3,688	3,474	388	346	1,046	979	2,253	2,148	3,224	3,054	464	420
Left job during previous 12 months	3,703	3,758	2,178	2,231	718	726	806	800	3,192	3,246	511	512
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	39.1	40.3	59.0	60.4	19.9	19.3	2.5	3.2	39.9	41.3	34.3	33.6
Ill health, disability	10.4	10.3	2.5	2.2	26.7	28.6	17.1	16.2	10.3	9.9	10.8	13.1
Retirement, old age	13.6	13.5	--	--	9.5	8.8	53.8	55.2	14.9	14.2	5.3	8.6
Economic reasons	18.9	17.7	18.6	17.6	19.8	17.0	18.9	18.1	17.4	16.7	28.0	24.0
End of seasonal job	9.3	8.8	10.2	9.7	7.4	6.6	8.6	8.4	8.3	8.3	15.1	12.5
Slack work	4.8	4.4	3.8	3.8	7.9	6.9	4.8	3.9	4.4	4.3	7.3	4.9
End of temporary job	4.8	4.4	4.6	4.2	4.5	3.5	5.6	5.9	4.7	4.1	5.7	6.6
All other reasons	18.0	18.3	19.9	19.7	24.0	26.2	7.8	7.2	17.5	17.9	21.6	20.7
Females, not in labor force	41,887	41,692	6,995	6,887	19,294	18,890	15,598	15,915	36,920	36,592	4,967	5,100
Never worked	7,191	6,984	2,818	2,694	1,920	1,889	2,453	2,399	5,904	5,711	1,287	1,273
Last worked over 5 years ago	21,337	21,543	253	237	10,204	9,958	10,880	11,348	19,247	19,362	2,090	2,181
Last worked 1 to 5 years ago	7,115	6,876	1,271	1,250	4,195	4,012	1,648	1,614	6,295	6,008	820	868
Left job during previous 12 months	6,243	6,288	2,652	2,707	2,974	3,030	617	554	5,474	5,510	769	778
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	48.0	49.5	61.3	63.5	43.8	44.2	11.5	9.9	49.2	50.0	39.9	45.3
Ill health, disability	6.4	6.9	2.0	2.1	8.5	10.0	15.3	13.3	5.9	6.3	10.3	11.5
Retirement, old age	4.6	4.2	--	--	2.0	1.4	37.2	40.4	4.7	4.7	3.4	1.0
Economic reasons	20.6	19.7	16.4	14.7	23.7	23.4	23.2	23.8	20.1	19.5	23.7	20.6
End of seasonal job	8.3	8.0	7.9	6.9	8.7	8.8	8.1	9.4	8.0	8.1	10.4	7.6
Slack work	5.2	5.3	3.5	3.4	6.7	6.9	5.4	5.9	5.0	5.2	6.2	6.6
End of temporary job	7.0	6.3	5.1	4.3	8.3	7.6	9.7	8.5	7.1	6.2	7.0	6.4
All other reasons	20.4	19.7	20.4	19.7	22.0	21.0	12.8	12.6	20.1	19.5	22.8	21.6

## 43. 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					
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
Total												
Do not intend to seek work	49,239	49,250	6,238	6,064	18,871	18,484	24,131	24,703	43,617	43,472	5,622	5,778
Intend to seek work in the next 12 months	9,280	9,369	5,159	5,222	3,527	3,559	593	589	7,505	7,538	1,775	1,831
Never worked	1,631	1,569	1,501	1,432	121	127	8	10	1,172	1,117	458	452
Last worked over 5 years ago	1,155	1,151	48	54	965	934	142	163	945	903	210	248
Last worked 1 to 5 years ago	1,896	1,844	598	614	1,082	1,031	217	198	1,467	1,437	429	407
Worked during previous 12 months	4,599	4,805	3,011	3,121	1,360	1,465	227	219	3,922	4,081	677	723
Males												
Do not intend to seek work	13,335	13,604	2,041	2,054	2,466	2,483	8,827	9,066	11,547	11,719	1,788	1,884
Intend to seek work in the next 12 months	3,298	3,324	2,361	2,345	638	670	300	309	2,656	2,699	642	625
Never worked	686	644	663	621	22	24	--	--	495	448	191	196
Last worked over 5 years ago	153	180	14	10	87	96	53	75	113	133	41	47
Last worked 1 to 5 years ago	512	476	198	173	194	201	120	103	402	380	110	97
Worked during previous 12 months	1,947	2,023	1,485	1,543	335	349	128	131	1,647	1,739	300	284
Females												
Do not intend to seek work	35,904	35,646	4,195	4,010	16,403	16,000	15,304	15,635	32,070	31,753	3,834	3,894
Intend to seek work in the next 12 months	5,982	6,045	2,799	2,877	2,889	2,889	293	280	4,849	4,839	1,133	1,206
Never worked	945	925	839	812	99	103	8	10	677	669	267	256
Last worked over 5 years ago	1,001	971	34	45	879	839	89	87	832	770	169	201
Last worked 1 to 5 years ago	1,384	1,367	400	444	888	830	97	95	1,065	1,057	319	310
Worked during previous 12 months	2,652	2,782	1,526	1,577	1,025	1,117	100	88	2,275	2,342	377	439

# HOUSEHOLD DATA ANNUAL AVERAGES

## 44. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin

[Numbers in thousands]

Employment status	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>TOTAL</b>								
Civilian noninstitutional population .....	158,941	161,532	139,580	141,614	16,640	17,026	7,639	7,901
Civilian labor force .....	100,420	102,908	88,456	90,602	10,211	10,430	4,801	5,019
Percent of population .....	63.2	63.7	63.4	64.0	61.4	61.3	62.8	63.5
Employment .....	94,373	96,945	83,836	86,025	8,925	9,160	4,366	4,604
Agriculture .....	3,342	3,297	3,034	2,999	245	241	221	221
Nonagricultural industries .....	91,031	93,648	80,802	83,026	8,680	8,919	4,145	4,384
Unemployment .....	6,047	5,963	4,620	4,577	1,286	1,269	435	415
Unemployment rate .....	6.0	5.8	5.2	5.1	12.6	12.2	9.1	8.3
Not in labor force .....	58,521	58,623	51,124	51,011	6,430	6,596	2,838	2,883
<b>Males, 20 years and over</b>								
Civilian noninstitutional population .....	67,006	68,293	59,510	60,567	6,397	6,563	3,107	3,226
Civilian labor force .....	53,464	54,486	47,733	48,583	4,856	4,981	2,639	2,753
Percent of population .....	79.8	79.8	80.2	80.2	75.9	75.9	84.9	85.3
Employment .....	51,212	52,264	45,977	46,854	4,415	4,529	2,473	2,595
Agriculture .....	2,361	2,350	2,120	2,122	196	187	167	170
Nonagricultural industries .....	48,852	49,913	43,857	44,733	4,217	4,343	2,306	2,425
Unemployment .....	2,252	2,223	1,757	1,728	443	452	166	158
Unemployment rate .....	4.2	4.1	3.7	3.6	9.1	9.1	6.3	5.7
Not in labor force .....	13,541	13,807	11,777	11,984	1,541	1,580	468	473
<b>Females, 20 years and over</b>								
Civilian noninstitutional population .....	75,489	76,860	66,146	67,206	8,022	8,242	3,486	3,614
Civilian labor force .....	37,416	38,910	32,233	33,545	4,447	4,562	1,643	1,731
Percent of population .....	49.6	50.6	48.7	49.9	55.4	55.4	47.1	47.9
Employment .....	35,180	36,698	30,547	31,876	3,953	4,068	1,481	1,576
Agriculture .....	586	591	545	546	28	34	31	28
Nonagricultural industries .....	34,593	36,107	30,002	31,330	3,926	4,033	1,450	1,549
Unemployment .....	2,236	2,213	1,686	1,669	493	494	162	154
Unemployment rate .....	6.0	5.7	5.2	5.0	11.1	10.8	9.8	8.9
Not in labor force .....	38,073	37,949	33,913	33,662	3,575	3,681	1,843	1,883
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population .....	16,447	16,379	13,924	13,841	2,221	2,221	1,046	1,061
Civilian labor force .....	9,540	9,512	8,490	8,475	907	886	519	535
Percent of population .....	58.0	58.1	61.0	61.2	40.8	39.9	49.6	50.4
Employment .....	7,981	7,984	7,312	7,295	557	563	412	433
Agriculture .....	395	356	369	332	20	19	23	23
Nonagricultural industries .....	7,586	7,628	6,943	6,963	537	543	389	410
Unemployment .....	1,559	1,528	1,178	1,181	351	323	107	102
Unemployment rate .....	16.3	16.1	13.9	13.9	38.6	36.5	20.6	19.1
Not in labor force .....	6,907	6,867	5,435	5,365	1,314	1,335	527	527

<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> 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.



# HOUSEHOLD DATA ANNUAL AVERAGES

## 45. Employment status of persons of Mexican, Puerto Rican, and Cuban origin by sex and age

(Numbers in thousands)

Employment status	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>TOTAL</b>								
Civilian noninstitutional population	7,639	7,901	4,471	4,721	1,085	1,065	569	592
Civilian labor force	4,801	5,019	2,924	3,119	550	543	377	391
Percent of population	62.8	63.5	65.4	66.1	50.7	51.0	66.3	66.0
Employment	4,366	4,604	2,665	2,864	477	481	351	361
Agriculture	221	221	197	197	7	4	5	4
Nonagricultural industries	4,145	4,384	2,468	2,666	469	477	346	356
Unemployment	435	415	259	255	73	62	26	31
Unemployment rate	9.1	8.3	8.9	8.2	13.2	11.5	7.0	7.8
Not in labor force	2,838	2,883	1,547	1,602	535	522	192	200
<b>Males, 20 years and over</b>								
Civilian noninstitutional population	3,107	3,226	1,902	2,000	391	381	227	244
Civilian labor force	2,639	2,753	1,654	1,762	316	304	187	203
Percent of population	84.9	85.3	87.0	88.1	80.8	79.8	82.4	83.2
Employment	2,473	2,595	1,559	1,667	282	274	178	193
Agriculture	167	170	148	152	6	2	4	4
Nonagricultural industries	2,306	2,425	1,411	1,515	276	272	173	189
Unemployment	166	158	95	95	33	30	9	10
Unemployment rate	6.3	5.7	5.7	5.4	10.6	9.9	5.0	4.9
Not in labor force	468	473	248	237	75	77	39	41
<b>Females, 20 years and over</b>								
Civilian noninstitutional population	3,486	3,614	1,927	2,050	536	524	287	285
Civilian labor force	1,643	1,731	934	989	174	185	161	157
Percent of population	47.1	47.9	48.5	48.2	32.5	35.3	56.1	55.1
Employment	1,481	1,576	835	892	152	167	150	145
Agriculture	31	28	28	25	—	1	—	—
Nonagricultural industries	1,450	1,549	807	867	152	166	150	145
Unemployment	162	154	99	98	22	17	10	12
Unemployment rate	9.8	8.9	10.6	9.9	12.7	9.3	6.5	7.9
Not in labor force	1,843	1,883	993	1,061	361	339	126	128
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population	1,046	1,061	642	672	158	160	56	63
Civilian labor force	519	535	336	367	59	55	29	31
Percent of population	49.6	50.4	52.3	54.6	37.3	34.4	51.8	49.2
Employment	412	433	271	305	42	40	23	23
Agriculture	23	23	21	20	1	1	—	—
Nonagricultural industries	389	410	250	285	41	39	22	23
Unemployment	107	102	65	62	17	15	7	8
Unemployment rate	20.6	19.1	19.4	16.9	29.2	27.8	(2)	(2)
Not in labor force	527	527	306	304	99	106	27	32

<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 35,000.

NOTE: See note, table 44.

# HOUSEHOLD DATA ANNUAL AVERAGES

## 46. Employed persons by selected social and economic categories, race, and Hispanic origin

[In thousands]

Selected categories	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>CHARACTERISTICS</b>								
Total, 16 years and over .....	94,373	96,945	83,836	86,025	10,537	10,920	4,366	4,604
Males .....	55,491	56,499	49,893	50,721	5,599	5,779	2,707	2,848
Females .....	38,882	40,446	33,943	35,304	4,938	5,141	1,659	1,757
<b>OCCUPATION</b>								
White-collar workers .....	47,205	49,342	43,388	45,203	3,817	4,140	1,412	1,502
Professional and technical .....	14,245	15,050	13,012	13,714	1,233	1,336	326	349
Managers and administrators, except farm ...	10,105	10,516	9,597	9,945	508	572	256	278
Sales workers .....	5,951	6,163	5,651	5,861	300	302	170	181
Clerical workers .....	16,904	17,613	15,128	15,683	1,776	1,931	660	694
Blue-collar workers .....	31,531	32,066	27,611	28,063	3,920	4,003	2,039	2,177
Craft and kindred workers .....	12,386	12,880	11,460	11,858	925	1,022	583	640
Operatives, except transport .....	10,875	10,909	9,242	9,264	1,632	1,645	926	991
Transport equipment operatives .....	3,541	3,612	3,014	3,089	527	523	177	185
Nonfarm laborers .....	4,729	4,665	3,894	3,851	835	813	353	361
Service workers .....	12,839	12,834	10,298	10,299	2,541	2,535	736	751
Farm workers .....	2,798	2,703	2,540	2,460	258	243	179	173
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,419	1,413	1,187	1,176	232	237	200	200
Self-employed workers .....	1,607	1,580	1,540	1,526	67	54	19	18
Unpaid family workers .....	316	304	307	297	9	7	2	3
Nonagricultural industries:								
Wage and salary workers .....	84,253	86,540	74,448	76,338	9,805	10,203	3,940	4,151
Government .....	15,289	15,369	12,873	12,932	2,415	2,437	594	610
Private industries .....	68,966	71,171	61,575	63,406	7,390	7,766	3,346	3,540
Private households .....	1,363	1,240	932	842	431	398	82	84
Other industries .....	67,603	69,931	60,643	62,564	6,959	7,368	3,264	3,456
Self-employed workers .....	6,305	6,652	5,908	6,255	397	398	189	216
Unpaid family workers .....	472	455	446	434	27	21	16	17
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	77,396	79,624	68,709	70,553	8,687	9,071	3,698	3,928
Part time for economic reasons .....	3,428	3,478	2,802	2,865	626	612	220	231
Part time for noneconomic reasons .....	13,549	13,843	12,325	12,606	1,223	1,237	447	446

<sup>1</sup> See footnote 2, table 44.

<sup>2</sup> Employed persons "with a job but not at work" during the survey period are distributed

proportionately among the full- and part-time employed categories.

# HOUSEHOLD DATA ANNUAL AVERAGES

## 47. Employed persons of Mexican, Puerto Rican, and Cuban origin by selected social and economic categories

(In thousands)

Selected categories	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>CHARACTERISTICS</b>								
Total, 16 years and over .....	4,366	4,604	2,665	2,864	477	481	351	361
Males .....	2,707	2,848	1,710	1,842	304	298	193	208
Females .....	1,659	1,757	955	1,022	172	183	158	152
<b>OCCUPATION</b>								
White-collar workers .....	1,412	1,502	732	796	163	178	149	158
Professional and technical .....	326	349	150	159	35	47	37	44
Managers and administrators, except farm .....	256	278	143	150	23	23	27	31
Sales workers .....	170	181	80	88	21	17	22	23
Clerical workers .....	660	694	359	399	84	91	63	60
Blue-collar workers .....	2,039	2,177	1,331	1,446	220	207	152	160
Craft and kindred workers .....	583	640	390	426	47	46	46	47
Operatives, except transport .....	926	991	559	626	125	115	81	81
Transport equipment operatives .....	177	185	120	126	22	20	8	14
Nonfarm laborers .....	353	361	262	268	26	26	17	18
Service workers .....	736	751	441	462	87	92	47	41
Farm workers .....	179	173	162	158	6	3	3	2
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	200	200	182	183	7	4	3	3
Self-employed workers .....	19	18	14	12	--	--	2	1
Unpaid family workers .....	2	3	2	2	--	--	--	--
Nonagricultural industries:								
Wage and salary workers .....	3,940	4,151	2,352	2,543	457	461	321	327
Government .....	594	610	380	379	73	86	28	34
Private industries .....	3,346	3,540	1,972	2,164	384	376	293	293
Private households .....	82	84	53	52	2	3	1	2
Other industries .....	3,264	3,456	1,919	2,112	382	373	292	291
Self-employed workers .....	189	216	106	111	12	16	24	29
Unpaid family workers .....	16	17	9	12	1	--	1	1
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	3,698	3,928	2,245	2,422	419	425	298	309
Part time for economic reasons .....	220	231	152	170	20	14	11	11
Part time for noneconomic reasons .....	447	446	269	272	37	42	42	41

<sup>1</sup> See footnote 1, table 45.

<sup>2</sup> See footnote 2, table 46.

# HOUSEHOLD DATA ANNUAL AVERAGES

## 48. Employed black and Hispanic origin workers by occupation

(Numbers in thousands)

(Numbers in thousands)

Occupation	1979			Occupation	1979		
	Total employed	Percent of total			Total employed	Percent of total	
		Black <sup>1</sup>	Hispanic origin <sup>2</sup>			Black <sup>1</sup>	Hispanic origin <sup>2</sup>
Total, 16 years and over .....	96,945	9.4	4.8	Blue-collar workers—Continued			
White-collar workers .....	49,342	6.5	3.0	All other .....	2,484	7.2	5.6
Professional and technical .....	15,050	6.4	2.3	Operatives, except transport .....	10,909	13.0	9.1
Health workers .....	2,809	7.0	2.1	Durable goods manufacturing .....	5,032	12.6	8.4
Teachers, except college .....	3,118	9.0	2.2	Nondurable goods manufacturing .....	3,376	14.5	11.1
Other professional and technical .....	9,123	5.3	2.4	Other industries .....	2,501	11.5	7.7
Managers and administrators, except farm .....	10,516	4.0	2.6	Transport equipment operatives .....	3,612	13.4	5.1
Salaried workers .....	8,733	4.1	2.5	Drivers, motor vehicles .....	3,066	12.9	5.0
Self-employed workers in retail trade .....	849	4.0	3.9	All other .....	546	16.3	6.0
Self-employed workers, except retail trade .....	935	3.6	—	Nonfarm laborers .....	4,665	15.9	7.7
Sales workers .....	6,163	3.6	2.9	Construction .....	878	16.5	10.0
Retail trade .....	3,215	4.3	3.9	Manufacturing .....	1,068	18.7	7.7
Other industries .....	2,948	2.9	1.9	Other industries .....	2,719	14.6	7.1
Clerical workers .....	17,613	9.1	3.9	Service workers .....	12,834	17.4	5.9
Stenographers, typists, and secretaries .....	4,825	7.5	3.4	Private household workers .....	1,088	31.8	6.5
Other clerical workers .....	12,788	9.8	4.1	Service workers, except private household .....	11,746	16.0	5.8
Blue-collar workers .....	32,066	11.0	6.8	Food service workers .....	4,300	10.1	5.9
Craft and kindred workers .....	12,880	6.8	5.0	Protective service workers .....	1,406	11.5	4.0
Carpenters .....	1,276	3.8	5.0	All other .....	6,040	21.3	6.1
Construction craft, except carpenters .....	2,639	8.7	5.3	Farm workers .....	2,703	7.3	6.4
Mechanics and repairers .....	3,451	6.3	4.9	Farmers and farm managers .....	1,446	1.8	.8
Metal craft .....	1,291	6.6	3.6	Farm laborers and supervisors .....	1,257	13.5	12.9
Blue-collar worker supervisors, not elsewhere classified .....	1,739	6.6	4.5	Paid workers .....	971	17.1	16.4
				Unpaid family workers .....	286	1.4	1.0

<sup>1</sup> See footnote 1, table 44.

<sup>2</sup> See footnote 2, table 44.

## 49. Employed black and Hispanic origin workers by industry

(Numbers in thousands)

Industry	1979			Industry	1979		
	Total employed	Percent of total			Total employed	Percent of total	
		Black <sup>1</sup>	Hispanic origin <sup>2</sup>			Black <sup>1</sup>	Hispanic origin <sup>2</sup>
Total, 16 years and over .....	96,945	9.4	4.8	Nondurable goods—Continued			
Agriculture .....	3,297	7.3	6.7	Other nondurable goods industries .....	616	10.2	7.0
Mining .....	865	3.6	4.9	Transportation and public utilities .....	6,406	11.4	4.1
Construction .....	6,299	7.0	5.2	Railroads and railway express .....	605	8.8	3.5
Manufacturing .....	22,137	9.8	6.0	Other transportation .....	3,101	11.9	4.6
Durable goods .....	13,450	9.4	5.4	Communications and other public utilities .....	2,699	11.4	3.7
Lumber and wood products .....	730	15.2	4.5	Wholesale and retail trade .....	19,672	6.2	4.6
Furniture and fixtures .....	567	7.8	8.8	Wholesale trade .....	3,775	6.0	4.0
Stone, clay, and glass products .....	706	11.2	5.4	Retail trade .....	15,898	6.2	4.8
Primary metal industries .....	1,262	14.6	5.0	Finance, insurance, and real estate .....	5,779	7.5	3.4
Fabricated metal products .....	1,495	8.1	7.1	Service industries .....	27,433	11.8	4.0
Machinery, except electrical equipment .....	2,747	5.6	4.0	Private household .....	1,301	30.1	6.6
Electrical equipment .....	2,293	7.9	5.8	Other service industries .....	26,132	11.0	3.9
Transportation equipment .....	2,298	12.9	3.7	Business repair services .....	3,632	9.0	5.1
Automobiles .....	1,238	15.1	2.9	Personal services .....	2,499	12.2	5.8
Other transportation equipment .....	1,060	10.4	4.7	Entertainment and recreation services .....	1,026	7.3	4.4
Instruments and related products .....	584	6.2	4.5	Professional services .....	18,817	11.3	3.3
Other durable goods industries .....	768	7.3	10.3	Medical, except hospital .....	3,047	9.7	3.0
Nondurable goods .....	8,688	10.5	7.0	Hospitals .....	3,843	16.3	3.5
Food and kindred products .....	1,789	10.6	8.8	Welfare and religion .....	1,536	15.8	4.4
Textile mill products .....	823	15.4	4.0	Education .....	7,855	10.8	3.4
Apparel and other textile products .....	1,279	13.0	15.2	Other .....	2,537	4.5	2.6
Paper and allied products .....	726	9.1	4.4	Forestry and fisheries .....	157	3.2	3.8
Printing and publishing .....	1,507	7.3	3.6	Public administration .....	5,056	12.9	4.1
Chemicals and allied products .....	1,217	10.4	3.6				
Rubber and plastics products .....	731	8.5	7.0				

<sup>1</sup> See footnote 1, table 44.

<sup>2</sup> See footnote 2, table 44.

# HOUSEHOLD DATA ANNUAL AVERAGES

## 50. Employed persons by sex, age, race, and Hispanic origin

[In thousands]

Sex and age	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>Total, 16 years and over</b> .....	94,373	96,945	83,836	86,025	8,925	9,160	4,366	4,605
16 to 19 years .....	7,981	7,984	7,312	7,295	557	563	412	433
16 to 17 years .....	3,269	3,271	3,033	3,021	189	201	153	146
18 to 19 years .....	4,712	4,713	4,279	4,274	368	362	259	286
20 to 24 years .....	13,498	13,891	11,977	12,287	1,295	1,353	766	819
25 years and over .....	72,894	75,070	64,547	66,444	7,072	7,244	3,188	3,353
25 to 54 years .....	58,759	60,721	51,774	53,468	5,870	6,054	2,833	2,981
55 years and over .....	14,136	14,349	12,774	12,976	1,202	1,190	355	372
<b>Males, 16 years and over</b> .....	55,491	56,499	49,893	50,721	4,717	4,836	2,707	2,848
16 to 19 years .....	4,279	4,236	3,916	3,866	303	306	234	252
16 to 17 years .....	1,767	1,761	1,637	1,624	105	110	90	89
18 to 19 years .....	2,512	2,475	2,279	2,242	198	196	144	164
20 to 24 years .....	7,330	7,534	6,560	6,692	658	710	472	486
25 years and over .....	43,883	44,730	39,417	40,163	3,757	3,820	2,001	2,110
25 to 54 years .....	35,149	35,923	31,472	32,129	3,074	3,163	1,755	1,861
55 years and over .....	8,734	8,807	7,945	8,034	683	657	246	249
<b>Females, 16 years and over</b> .....	38,882	40,446	33,943	35,304	4,207	4,324	1,659	1,757
16 to 19 years .....	3,702	3,748	3,396	3,428	254	257	178	180
16 to 17 years .....	1,502	1,510	1,396	1,396	84	91	63	58
18 to 19 years .....	2,200	2,238	2,000	2,032	170	166	115	123
20 to 24 years .....	6,168	6,358	5,418	5,595	638	643	294	333
25 years and over .....	29,011	30,340	25,130	26,281	3,317	3,425	1,187	1,244
25 to 54 years .....	23,609	24,798	20,302	21,339	2,797	2,891	1,079	1,120
55 years and over .....	5,402	5,542	4,828	4,942	520	533	109	124

<sup>1</sup> See footnote 1, table 44.

<sup>2</sup> See footnote 2, table 44.

## 51. Rates of unemployment by sex, age, race, and Hispanic origin

Sex and age	Total		White		Black <sup>1</sup>		Hispanic origin <sup>2</sup>	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>Total, 16 years and over</b> .....	6.0	5.8	5.2	5.1	12.6	12.2	9.1	8.3
16 to 19 years .....	16.3	16.1	13.9	13.9	38.6	36.5	20.6	19.1
16 to 17 years .....	19.3	18.1	17.0	16.0	43.9	40.2	28.6	26.3
18 to 19 years .....	14.2	14.6	11.5	12.4	35.5	34.3	15.1	14.8
20 to 24 years .....	9.5	9.0	7.9	7.6	21.7	20.4	10.8	10.3
25 years and over .....	4.0	3.9	3.6	3.5	7.5	7.6	6.9	6.1
25 to 54 years .....	4.2	4.1	3.8	3.6	8.1	8.2	7.1	6.2
55 years and over .....	3.2	3.0	3.0	2.8	5.0	5.0	5.3	5.8
<b>Males, 16 years and over</b> .....	5.2	5.1	4.5	4.4	11.6	11.2	7.6	6.9
16 to 19 years .....	15.7	15.8	13.5	13.9	36.5	34.0	19.5	17.4
16 to 17 years .....	19.2	17.9	16.9	16.1	42.8	37.6	27.2	23.4
18 to 19 years .....	13.2	14.2	10.8	12.3	32.7	31.8	13.8	13.8
20 to 24 years .....	9.1	8.6	7.6	7.4	20.8	18.4	9.3	9.0
25 years and over .....	3.3	3.3	3.0	2.9	6.7	7.1	5.6	5.0
25 to 54 years .....	3.4	3.4	3.0	3.0	7.1	7.4	5.6	5.0
55 years and over .....	3.1	2.9	2.9	2.6	4.9	5.3	5.0	5.0
<b>Females, 16 years and over</b> .....	7.2	6.8	6.2	5.9	13.7	13.2	11.3	10.4
16 to 19 years .....	17.0	16.4	14.4	13.9	41.0	39.2	22.0	21.3
16 to 17 years .....	19.5	18.3	17.1	15.9	45.2	42.9	30.3	30.5
18 to 19 years .....	15.3	15.0	12.4	12.5	38.6	36.9	16.6	16.1
20 to 24 years .....	10.1	9.6	8.3	7.8	22.6	22.4	13.1	12.2
25 years and over .....	5.1	4.8	4.5	4.4	8.5	8.3	9.0	8.0
25 to 54 years .....	5.4	5.2	4.9	4.7	9.1	8.9	9.3	8.0
55 years and over .....	3.3	3.2	3.1	3.0	5.1	4.5	6.9	7.6

<sup>1</sup> See footnote 1, table 44.

<sup>2</sup> See footnote 2, table 44.

**52. Unemployed persons by duration of unemployment, race, and Hispanic origin**

[In thousands]

Weeks of unemployment	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>Duration</b>								
Total, 16 years and over .....	6,047	5,963	4,620	4,577	1,427	1,386	435	415
Less than 5 weeks .....	2,973	2,869	2,212	2,263	581	606	218	210
5 to 14 weeks .....	1,875	1,892	1,413	1,438	462	454	127	133
15 weeks and over .....	1,379	1,202	995	876	384	326	90	71
15 to 26 weeks .....	746	684	553	518	193	166	53	48
27 weeks and over .....	633	518	442	359	191	159	38	23
Average (mean) duration, in weeks .....	11.9	10.8	11.3	10.3	14.0	12.7	10.9	9.3
Median duration, in weeks .....	5.9	5.4	5.5	5.1	7.2	6.4	5.0	4.9
<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 .....	46.2	48.1	47.9	49.4	40.7	43.8	50.0	50.7
5 to 14 weeks .....	31.0	31.7	30.6	31.4	32.4	32.8	29.1	32.1
15 weeks and over .....	22.8	20.2	21.5	19.1	26.9	23.5	20.9	17.1
15 to 26 weeks .....	12.3	11.5	12.0	11.3	13.5	12.0	12.2	11.6
27 weeks and over .....	10.5	8.7	9.6	7.8	13.4	11.5	8.7	5.6

<sup>1</sup> See footnote 2, table 44.

**53. Unemployed persons by reason for unemployment, race and Hispanic origin**

[Numbers in thousands]

Reason for unemployment	Total		White		Black and other		Hispanic origin <sup>1</sup>	
	1978	1979	1978	1979	1978	1979	1978	1979
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	6,047	5,963	4,620	4,577	1,427	1,386	435	415
Job losers .....	2,514	2,555	1,972	1,993	542	562	200	204
On layoff .....	698	835	593	694	105	142	42	49
Other job losers .....	1,817	1,719	1,379	1,299	438	420	158	155
Job leavers .....	851	854	1,938	715	142	139	56	59
Reentrants .....	1,814	1,758	1,348	1,314	467	444	111	94
New entrants .....	867	797	591	555	276	242	67	58
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	41.5	42.8	42.6	43.6	38.0	40.5	46.1	49.1
On layoff .....	11.5	14.0	12.8	15.2	7.3	10.2	9.7	11.8
Other job losers .....	30.0	28.8	29.8	28.4	30.7	30.3	36.4	37.3
Job leavers .....	14.1	14.3	15.4	15.6	9.9	10.0	12.9	14.2
Reentrants .....	30.0	29.5	29.2	28.7	32.7	32.0	25.6	22.7
New entrants .....	14.3	13.4	12.8	12.1	19.4	17.4	15.4	14.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	2.5	2.5	2.3	2.2	4.6	4.6	4.2	4.1
Job leavers .....	.8	.8	.8	.8	1.2	1.1	1.2	1.2
Reentrants .....	1.8	1.7	1.5	1.5	3.9	3.6	2.3	1.9
New entrants .....	.9	.8	.7	.6	2.3	2.0	1.4	1.2

<sup>1</sup> See footnote 2, table 44.

# HOUSEHOLD DATA ANNUAL AVERAGES

## 54. Job desire of black and Hispanic origin workers 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			Sex	
		16-24	25-59	60 and over	Males	Females
		1979				
	BLACK <sup>1</sup>					
Total not in labor force .....	6,596	2,062	2,403	2,132	2,188	4,408
Do not want a job now .....	5,452	1,460	1,929	2,062	1,839	3,612
Current activity:						
Going to school .....	969	888	82	--	476	493
Ill, disabled .....	826	37	433	357	408	418
Keeping house .....	2,260	290	1,115	852	45	2,214
Retired .....	816	--	8	808	573	243
Other .....	581	245	291	45	337	244
Want a job now .....	1,144	601	474	68	350	795
Reason not looking:						
School attendance .....	356	321	34	--	166	190
Ill health, disability .....	197	26	129	41	76	121
Home responsibilities .....	250	99	150	1	--	250
Think cannot get job .....	191	86	91	15	67	125
Other reasons <sup>2</sup> .....	150	69	70	11	41	109
HISPANIC ORIGIN <sup>3</sup>						
Total not in labor force .....	2,882	849	1,411	622	705	2,177
Do not want a job now .....	2,506	666	1,240	600	593	1,912
Current activity:						
Going to school .....	372	335	37	--	182	189
Ill, disabled .....	206	10	124	74	108	99
Keeping house .....	1,466	220	958	287	6	1,460
Retired .....	229	--	2	227	167	61
Other .....	233	101	119	12	130	103
Want a job now .....	376	183	171	23	111	265
Reason not looking:						
School attendance .....	107	97	10	--	47	60
Ill health, disability .....	50	4	37	8	23	27
Home responsibilities .....	101	38	64	--	--	101
Think cannot get job .....	50	15	27	8	16	34
Other reasons <sup>2</sup> .....	68	29	33	7	25	43

<sup>1</sup> See footnote 1, table 44.

<sup>2</sup> Includes small number of men not looking for work because of "home responsibilities."

<sup>3</sup> See footnote 2, table 44.

**55. Employment status of male Vietnam-Era veterans and nonveterans by age**

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
<b>VETERANS<sup>1</sup></b>										
Total, 20 years and over .....	8,333	8,524	7,874	8,111	7,506	7,763	368	348	4.7	4.3
20 to 24 years .....	753	552	672	508	592	450	80	58	11.9	11.4
25 to 29 years .....	6,862	7,127	6,595	6,877	6,328	6,611	267	266	4.0	3.9
30 to 34 years .....	2,357	1,966	2,233	1,868	2,100	1,760	133	108	6.0	5.8
35 to 39 years .....	3,376	3,602	3,268	3,494	3,167	3,379	101	115	3.1	3.3
40 years and over .....	1,129	1,559	1,094	1,515	1,061	1,472	33	42	3.0	2.8
40 years and over .....	718	845	607	726	586	702	21	24	3.5	3.3
<b>NONVETERANS<sup>2</sup></b>										
Total, 25 to 39 years .....	13,695	14,578	13,040	13,863	12,524	13,325	516	538	4.0	3.9
25 to 29 years .....	6,096	6,657	5,771	6,305	5,491	6,017	280	288	4.9	4.6
30 to 34 years .....	4,000	4,186	3,822	3,992	3,688	3,851	134	141	3.5	3.5
35 to 39 years .....	3,599	3,735	3,447	3,566	3,345	3,457	102	109	3.0	3.1

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

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

**56. Employment status of male Vietnam-Era veterans and nonveterans 25 to 39 years by age, race, and Hispanic origin**

(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>2</sup>	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
<b>Total, 25 to 39 years:</b>												
Civilian noninstitutional population .....	6,208	6,416	654	711	235	243	11,863	12,672	1,832	1,906	950	1,029
Civilian labor force .....	5,985	6,209	610	668	223	230	11,378	12,157	1,662	1,706	901	969
Employed .....	5,768	5,995	560	616	211	218	10,988	11,753	1,536	1,572	843	917
Unemployed .....	217	214	50	52	12	12	390	404	126	134	58	52
Unemployment rate .....	3.6	3.4	8.2	7.8	5.4	5.2	3.4	3.3	7.6	7.9	6.4	5.4
<b>25 to 29 years</b>												
Civilian noninstitutional population .....	2,111	1,732	246	234	100	85	5,324	5,839	772	818	394	430
Civilian labor force .....	2,005	1,647	228	221	94	80	5,082	5,582	689	723	375	403
Employed .....	1,900	1,563	200	197	87	75	4,870	5,361	621	656	349	381
Unemployed .....	105	84	28	24	7	5	212	221	68	67	26	22
Unemployment rate .....	5.2	5.1	12.3	10.9	7.4	6.3	4.2	4.0	9.9	9.3	6.9	5.5
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	3,080	3,278	296	324	102	114	3,447	3,602	553	584	283	313
Civilian labor force .....	2,990	3,191	278	303	97	108	3,319	3,465	503	527	266	296
Employed .....	2,905	3,097	262	282	93	103	3,222	3,365	466	486	249	282
Unemployed .....	85	94	16	21	4	5	97	100	37	41	17	14
Unemployment rate .....	2.8	2.9	5.8	6.9	4.1	4.6	2.9	2.9	7.4	7.8	6.4	4.7
<b>35 to 39 years</b>												
Civilian noninstitutional population .....	1,017	1,406	112	153	33	44	3,092	3,231	507	504	273	286
Civilian labor force .....	990	1,371	104	144	32	42	2,977	3,110	470	456	260	270
Employed .....	963	1,335	98	137	31	40	2,896	3,027	449	430	245	254
Unemployed .....	27	36	6	7	1	2	81	83	21	26	15	16
Unemployment rate .....	2.7	2.6	5.8	4.9	(3)	4.8	2.7	2.7	4.5	5.7	5.8	5.9

<sup>1</sup> See footnote 1, table 55.

<sup>2</sup> See footnote 2, table 44.

<sup>3</sup> Percent not shown where base is less than 35,000.



# HOUSEHOLD DATA ANNUAL AVERAGES

## 57. 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	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
<b>Total</b>												
Civilian noninstitutional population	107,391	109,969	45,323	46,014	62,068	63,955	51,550	51,563	4,827	4,594	46,723	46,969
Civilian labor force	68,738	71,192	28,108	28,803	40,630	42,390	31,682	31,716	3,032	2,926	28,650	28,790
Percent of population	64.0	64.7	62.0	62.6	65.5	66.3	61.5	61.5	62.8	63.7	61.3	61.3
Employed	64,529	67,029	26,029	26,759	38,499	40,269	29,844	29,916	2,952	2,859	26,892	27,057
Unemployed	4,210	4,163	2,079	2,044	2,131	2,120	1,837	1,800	79	68	1,758	1,732
Unemployment rate	6.1	5.8	7.4	7.1	5.2	5.0	5.8	5.7	2.6	2.3	6.1	6.0
Not in labor force	38,653	38,777	17,215	17,211	21,437	21,566	19,869	19,847	1,795	1,668	18,073	18,179
<b>Males, 20 years and over</b>												
Civilian noninstitutional population	45,158	46,304	18,660	18,963	26,499	27,341	21,848	21,990	2,180	2,099	19,668	19,891
Civilian labor force	36,459	37,417	14,484	14,776	21,975	22,640	17,005	17,069	1,807	1,741	15,198	15,328
Percent of population	80.7	80.8	77.6	77.9	82.9	82.8	77.8	77.6	82.9	83.0	77.3	77.1
Employed	34,880	35,848	13,658	13,957	21,223	21,892	16,332	16,415	1,781	1,716	14,551	14,699
Unemployed	1,579	1,569	825	821	753	749	673	654	26	26	647	628
Unemployment rate	4.3	4.2	5.7	5.6	3.4	3.3	4.0	3.8	1.4	1.5	4.3	4.1
Not in labor force	8,699	8,886	4,176	4,187	4,523	4,700	4,842	4,921	372	358	4,470	4,563
<b>Females, 20 years and over</b>												
Civilian noninstitutional population	51,219	52,610	22,267	22,637	28,953	29,972	24,269	24,250	2,064	1,948	22,205	22,302
Civilian labor force	25,897	27,336	11,268	11,668	14,629	15,668	11,518	11,574	880	862	10,638	10,712
Percent of population	50.6	52.0	50.6	51.5	50.5	52.3	47.5	47.7	42.7	44.2	47.9	48.0
Employed	24,360	25,792	10,511	10,914	13,849	14,878	10,820	10,905	849	840	9,971	10,065
Unemployed	1,537	1,544	757	754	781	790	699	669	31	22	668	647
Unemployment rate	5.9	5.6	6.7	6.5	5.3	5.0	6.1	5.8	3.5	2.6	6.3	6.0
Not in labor force	25,322	25,274	10,999	10,969	14,323	14,305	12,751	12,676	1,184	1,087	11,567	11,589
<b>Both sexes, 16-19 years</b>												
Civilian noninstitutional population	11,014	11,056	4,397	4,413	6,617	6,642	5,433	5,323	583	546	4,850	4,777
Civilian labor force	6,382	6,439	2,356	2,358	4,026	4,081	3,158	3,073	344	323	2,814	2,750
Percent of population	57.9	58.2	53.6	53.4	60.8	61.4	58.1	57.7	59.0	59.1	58.0	57.6
Employed	5,289	5,388	1,860	1,889	3,428	3,499	2,692	2,595	321	303	2,371	2,292
Unemployed	1,093	1,051	496	469	597	581	466	477	22	19	444	458
Unemployment rate	17.1	16.3	21.1	19.9	14.8	14.2	14.7	15.5	6.5	6.0	15.8	16.7
Not in labor force	4,632	4,617	2,039	2,055	2,591	2,562	2,275	2,250	239	224	2,036	2,026
<b>White</b>												
Civilian noninstitutional population	92,782	94,587	34,856	35,200	57,926	59,387	46,798	47,027	4,509	4,340	42,289	42,687
Civilian labor force	59,566	61,489	21,732	22,218	37,834	39,272	28,890	29,113	2,859	2,791	26,031	26,322
Percent of population	64.2	65.0	62.3	63.1	65.3	66.1	61.7	61.9	63.4	64.3	61.6	61.7
Employed	56,464	58,423	20,491	21,003	35,973	37,421	27,372	27,602	2,796	2,734	24,576	24,868
Unemployed	3,102	3,066	1,241	1,215	1,861	1,851	1,518	1,511	63	57	1,455	1,454
Unemployment rate	5.2	5.0	5.7	5.5	4.9	4.7	5.3	5.2	2.2	2.0	5.6	5.5
Not in labor force	33,216	33,097	13,124	12,982	20,091	20,115	17,908	17,914	1,650	1,549	16,258	16,365
<b>Black and other</b>												
Civilian noninstitutional population	14,609	15,383	10,467	10,814	4,142	4,568	4,752	4,535	318	254	4,434	4,281
Civilian labor force	9,172	9,703	6,376	6,585	2,796	3,118	2,792	2,603	172	135	2,620	2,468
Percent of population	62.8	63.1	60.9	60.9	67.5	68.3	58.7	57.4	54.3	53.1	59.1	57.7
Employed	8,065	8,606	5,538	5,757	2,527	2,849	2,472	2,314	156	124	2,316	2,190
Unemployed	1,108	1,097	839	828	269	269	319	289	17	10	302	279
Unemployment rate	12.1	11.3	13.2	12.6	9.6	8.6	11.4	11.1	9.7	7.7	11.5	11.3
Not in labor force	5,437	5,680	4,091	4,230	1,346	1,450	1,961	1,932	145	119	1,816	1,813

**58. 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	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
<b>Total</b>												
Civilian noninstitutional population	28,976	28,801	129,965	132,731	11,155	10,948	96,236	99,021	17,821	17,853	33,729	33,709
Civilian labor force	16,285	16,195	84,135	86,713	6,060	5,964	62,678	65,229	10,225	10,231	21,456	21,485
Percent of population	56.2	56.2	64.7	65.3	54.3	54.5	65.1	65.9	57.4	57.3	63.6	63.7
Employed	14,873	14,877	79,500	82,068	5,313	5,284	59,216	61,745	9,560	9,593	20,284	20,323
Unemployed	1,412	1,318	4,635	4,645	747	680	3,463	3,483	665	638	1,172	1,162
Unemployment rate	8.7	8.1	5.5	5.4	12.3	11.4	5.5	5.3	6.5	6.2	5.5	5.4
Not in labor force	12,691	12,606	45,831	46,018	5,095	4,984	33,557	33,793	7,596	7,622	12,273	12,225
<b>White</b>												
Civilian noninstitutional population	20,445	20,389	119,135	121,224	5,795	5,543	86,987	89,044	14,650	14,847	32,148	32,181
Civilian labor force	11,694	11,695	76,762	78,907	3,210	3,076	56,357	58,413	8,485	8,619	20,405	20,494
Percent of population	57.2	57.4	64.4	65.1	55.4	55.5	64.8	65.6	57.9	58.1	63.5	63.7
Employed	10,963	10,999	72,873	75,026	2,930	2,828	53,534	55,594	8,032	8,170	19,340	19,432
Unemployed	732	697	3,888	3,881	279	248	2,824	2,818	453	449	1,066	1,062
Unemployment rate	6.3	6.0	5.1	4.9	8.7	8.1	5.0	4.8	5.3	5.2	5.2	5.2
Not in labor force	8,751	8,694	42,373	42,318	2,586	2,466	30,631	30,631	6,166	6,228	11,742	11,687
<b>Black and other</b>												
Civilian noninstitutional population	8,531	8,411	10,830	11,507	5,360	5,405	9,249	9,978	3,171	3,007	1,582	1,529
Civilian labor force	4,591	4,500	7,373	7,806	2,850	2,887	6,322	6,816	1,741	1,612	1,051	991
Percent of population	53.8	53.5	68.1	67.8	53.2	53.4	68.4	68.3	54.9	53.6	66.4	64.8
Employed	3,911	3,878	6,626	7,042	2,383	2,455	5,682	6,151	1,528	1,423	944	891
Unemployed	680	621	147	765	468	432	640	665	213	189	107	100
Unemployment rate	14.8	13.8	10.1	9.8	16.4	15.0	10.1	9.8	12.2	11.7	10.1	10.1
Not in labor force	3,940	3,912	3,458	3,700	2,510	2,518	2,927	3,162	1,430	1,394	531	538

**59. 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	
	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979	1978	1979
<b>Total</b>												
Both sexes, 16 years and over	8.7	8.1	5.5	5.4	12.3	11.4	5.5	5.3	6.5	6.2	5.5	5.4
Males, 20 years and over	6.2	5.7	3.8	3.8	9.6	8.4	3.8	3.8	4.4	4.2	3.8	3.7
Females, 20 years and over	8.7	8.3	5.5	5.2	11.0	10.9	5.4	5.2	7.2	6.6	5.5	5.4
Both sexes, 16-19 years	22.0	21.9	15.2	15.0	32.3	30.1	15.6	15.0	16.0	17.2	14.2	14.8
<b>White</b>												
Both sexes, 16 years and over	6.3	6.0	5.1	4.9	8.7	8.1	5.0	4.8	5.3	5.2	5.2	5.2
Males, 20 years and over	4.7	4.3	3.5	3.4	6.8	6.3	3.5	3.4	3.9	3.6	3.6	3.6
Females, 20 years and over	6.5	6.2	5.0	4.8	8.4	8.2	4.9	4.7	5.8	5.5	5.4	5.1
Both sexes, 16-19 years	14.6	15.2	13.8	13.8	21.4	18.6	14.0	13.6	12.3	14.0	13.2	14.2
<b>Black and other</b>												
Both sexes, 16 years and over	14.8	13.8	10.1	9.8	16.4	15.0	10.1	9.8	12.2	11.7	10.1	10.1
Males, 20 years and over	10.8	9.8	7.3	7.6	13.2	11.2	7.3	7.8	7.1	7.4	6.8	6.1
Females, 20 years and over	13.4	12.7	9.0	8.7	13.6	13.2	9.1	8.5	13.2	11.9	8.4	10.4
Both sexes, 16-19 years	39.3	37.5	33.8	30.4	42.9	40.7	34.1	31.0	33.4	31.8	32.6	27.5

# HOUSEHOLD DATA ANNUAL AVERAGES

## 60. Unemployed persons by family relationship and presence of employed family members

(Numbers in thousands)

Family relationship	1978				1979			
	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 .....	6,047	38.2	61.8	55.8	5,963	38.5	61.5	55.4
Unemployed, in families <sup>1</sup> .....	5,199	28.1	71.9	65.0	5,122	28.4	71.6	64.5
Husbands <sup>2</sup> .....	1,118	49.9	50.1	39.3	1,123	48.8	51.2	39.6
Wives .....	1,203	12.6	87.4	82.2	1,172	13.7	86.3	81.4
Relatives in husband-wife families .....	1,741	9.9	90.1	85.9	1,696	9.7	90.3	85.8
Women who head families .....	407	81.1	18.9	13.0	413	83.1	16.9	12.1
Relatives of female heads .....	730	34.5	65.5	54.8	718	33.6	66.4	55.8
Unemployed, not in families <sup>3</sup> .....	848	--	--	--	841	--	--	--
<b>White</b>								
Unemployed, total .....	4,620	36.4	63.6	57.9	4,577	36.5	63.5	57.7
Unemployed, in families <sup>1</sup> .....	3,960	25.8	74.2	67.5	3,921	25.8	74.2	67.3
Husbands <sup>2</sup> .....	936	50.0	50.0	38.8	931	49.1	50.9	39.0
Wives .....	1,003	12.0	88.0	83.0	987	13.1	86.9	82.2
Relatives in husband-wife families .....	1,383	9.3	90.7	86.9	1,373	9.0	91.0	86.8
Women who head families .....	234	77.4	22.6	16.7	235	78.3	21.7	15.3
Relatives of female heads .....	404	31.2	68.8	58.9	395	30.1	69.9	60.3
Unemployed, not in families <sup>3</sup> .....	660	--	--	--	656	--	--	--
<b>Black<sup>4</sup></b>								
Unemployed, total .....	1,286	44.3	55.7	48.8	1,269	45.7	54.3	47.4
Unemployed, in families <sup>1</sup> .....	1,126	36.4	63.6	55.8	1,102	37.5	62.5	54.5
Husbands <sup>2</sup> .....	156	49.4	50.6	41.0	167	46.7	53.3	43.1
Wives .....	176	14.2	85.8	79.5	159	17.6	82.4	76.1
Relatives in husband-wife families .....	315	13.0	87.0	81.6	293	12.3	87.7	81.2
Women who head families .....	168	86.9	13.1	7.7	170	89.4	10.6	7.6
Relatives of female heads .....	311	38.9	61.1	49.5	313	38.0	62.0	50.2
Unemployed, not in families <sup>3</sup> .....	160	--	--	--	167	--	--	--

<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 ANNUAL AVERAGES

## 61. Employed persons by family relationship and presence of additional employed family members

(Numbers in thousands)

Family relationship	1978				1979			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
<b>TOTAL</b>								
Employed, total	94,373	37.5	62.5	53.7	96,945	37.5	62.5	53.8
Employed, in families <sup>1</sup>	81,307	27.5	72.5	62.3	82,987	27.0	73.0	62.8
Husbands <sup>2</sup>	39,344	40.5	59.5	43.8	39,832	39.5	60.5	44.6
Wives	21,598	8.4	91.6	87.4	22,453	8.5	91.5	87.5
Relatives in husband-wife families	12,605	6.2	93.8	90.6	12,671	6.3	93.7	90.3
Women who head families	4,405	66.2	33.8	23.7	4,581	65.8	34.2	24.1
Relatives of female heads	3,355	27.4	72.6	61.7	3,450	26.9	73.1	63.2
Employed, not in families <sup>3</sup>	13,066	--	--	--	13,958	--	--	--
<b>White</b>								
Employed, total	83,836	37.0	63.0	53.9	86,025	37.0	63.0	54.0
Employed, in families <sup>1</sup>	72,510	27.2	72.8	62.4	73,862	26.6	73.4	62.9
Husbands <sup>2</sup>	35,862	41.0	59.0	42.9	36,272	39.9	60.1	43.6
Wives	19,373	8.1	91.9	87.8	20,122	8.1	91.9	87.9
Relatives in husband-wife families	11,434	6.0	94.0	91.0	11,447	6.1	93.9	90.7
Women who head families	3,260	63.5	36.5	25.4	3,374	63.3	36.7	25.5
Relatives of female heads	2,581	27.0	73.0	62.4	2,647	26.6	73.4	64.0
Employed, not in families <sup>3</sup>	11,326	--	--	--	12,163	--	--	--
<b>Black<sup>4</sup></b>								
Employed, total	8,925	42.5	57.5	50.3	9,160	42.7	57.3	50.5
Employed, in families <sup>1</sup>	7,464	31.2	68.8	60.1	7,650	31.4	68.6	60.5
Husbands <sup>2</sup>	2,898	35.7	64.3	53.3	2,932	35.2	64.8	54.0
Wives	1,840	11.6	88.4	82.9	1,891	12.9	87.1	82.5
Relatives in husband-wife families	923	8.6	91.4	85.2	962	8.7	91.3	85.4
Women who head families	1,078	73.9	26.1	18.9	1,123	73.9	26.1	19.5
Relatives of female heads	725	28.6	71.4	59.0	742	29.0	71.0	59.8
Employed, not in families <sup>3</sup>	1,461	--	--	--	1,510	--	--	--

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

<sup>2</sup> See footnote 2, table 60.

<sup>3</sup> See footnote 3, table 60.

<sup>4</sup> See footnote 4, table 60.

# ESTABLISHMENT DATA ANNUAL AVERAGES

## 1. Employees on nonagricultural payrolls by industry and major manufacturing group

[In thousands]

Industry	1976	1977	1978	1979 <sup>P</sup>	Change from	
					1977-78	1978-79 <sup>P</sup>
<b>TOTAL</b>	79,382	82,423	86,446	89,497	4,023	3,051
<b>GOODS-PRODUCING</b>	23,352	24,346	25,597	26,579	1,251	982
<b>MINING</b>	779	813	851	958	38	107
<b>CONSTRUCTION</b>	3,576	3,851	4,271	4,642	420	371
<b>MANUFACTURING</b>	18,997	19,682	20,476	20,979	794	503
<b>DURABLE GOODS</b>	11,077	11,597	12,246	12,694	649	448
Lumber and wood products	679.6	721.9	752.4	758.6	30.5	6.2
Furniture and fixtures	444.3	464.3	491.1	487.4	26.8	-3.7
Stone, clay, and glass products	644.4	668.7	698.0	710.9	29.3	12.9
Primary metal industries	1,154.9	1,181.6	1,212.7	1,254.2	31.1	32.5
Fabricated metal products	1,510.9	1,582.8	1,673.4	1,727.2	90.6	53.8
Machinery, except electrical	2,065.2	2,174.7	2,319.2	2,464.1	144.5	144.9
Electric and electronic equipment	1,774.3	1,878.0	1,999.5	2,109.6	121.5	110.1
Transportation equipment	1,798.7	1,871.5	1,991.7	2,048.7	120.2	57.0
Instruments and related products	575.3	615.1	653.5	690.6	38.4	37.1
Miscellaneous manufacturing industries	429.1	438.4	454.0	452.2	15.6	-1.8
<b>NONDURABLE GOODS</b>	7,920	8,086	8,230	8,285	144	55
Food and kindred products	1,688.9	1,711.0	1,721.2	1,717.1	10.2	-4.1
Tobacco manufactures	76.6	70.7	69.6	66.2	-1.1	-3.4
Textile mill products	918.8	910.2	900.2	891.7	-10.0	-8.5
Apparel and other textile products	1,318.1	1,316.3	1,332.5	1,313.2	16.2	-19.3
Paper and allied products	675.5	691.6	700.9	714.3	9.3	13.4
Printing and publishing	1,099.2	1,141.4	1,193.1	1,243.0	51.7	49.9
Chemicals and allied products	1,042.5	1,073.7	1,096.3	1,113.4	22.6	17.1
Petroleum and coal products	198.5	202.3	208.7	213.8	6.4	5.1
Rubber and misc. plastics products	639.5	713.5	751.9	768.2	38.4	16.3
Leather and leather products	262.7	254.8	255.6	243.8	.8	-11.8
<b>SERVICE-PRODUCING</b>	56,030	58,077	60,849	62,918	2,772	2,069
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	4,582	4,713	4,927	5,154	214	227
<b>WHOLESALE AND RETAIL TRADE</b>	17,755	18,516	19,499	20,140	983	641
<b>WHOLESALE TRADE</b>	4,546	4,708	4,957	5,173	249	216
<b>RETAIL TRADE</b>	13,209	13,808	14,542	14,968	734	426
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	4,271	4,467	4,727	4,964	260	237
<b>SERVICES</b>	14,551	15,303	16,220	17,047	917	827
<b>GOVERNMENT</b>	14,871	15,079	15,476	15,613	397	137
<b>FEDERAL</b>	2,733	2,727	2,753	2,773	26	20
<b>STATE AND LOCAL</b>	12,138	12,352	12,723	12,840	371	117

p=preliminary.

**ESTABLISHMENT DATA  
ANNUAL AVERAGES**

**2. Production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls  
by industry division and major manufacturing group**

[In thousands]

Industry	1976	1977	1978	1979 <sup>P</sup>	Change from	
					1977-78	1978-79 <sup>P</sup>
<b>TOTAL PRIVATE</b>	52,897	55,179	58,109	60,370	2,930	2,261
<b>MINING</b>	592	618	638	718	20	80
<b>CONSTRUCTION . . .</b>	2,814	3,021	3,388	3,708	367	320
<b>MANUFACTURING . .</b>	13,638	14,135	14,714	15,017	579	303
<b>DURABLE GOODS . . . . .</b>	7,914	8,307	8,786	9,058	479	272
Lumber and wood products . . . . .	576.3	616.3	644.6	646.6	28.3	2.0
Furniture and fixtures . . . . .	364.0	381.8	403.7	398.1	21.9	-5.6
Stone, clay, and glass products . . . . .	513.5	532.9	554.8	560.6	21.9	5.8
Primary metal industries . . . . .	904.4	922.1	952.5	979.4	30.4	26.9
Fabricated metal products . . . . .	1,139.0	1,198.2	1,270.7	1,305.9	72.5	35.2
Machinery, except electrical . . . . .	1,339.9	1,422.0	1,523.9	1,618.2	101.9	94.3
Electric and electronic equipment . . . . .	1,159.9	1,233.2	1,312.1	1,378.9	78.9	66.8
Transportation equipment . . . . .	1,235.3	1,290.4	1,376.5	1,405.1	86.1	28.6
Instruments and related products . . . . .	352.7	375.5	400.6	421.2	25.1	20.6
Miscellaneous manufacturing industries . . . . .	328.7	334.2	346.3	344.1	12.1	-2.2
<b>NONDURABLE GOODS . . . . .</b>	5,724	5,828	5,928	5,959	100	31
Food and kindred products . . . . .	1,145.1	1,161.0	1,171.3	1,176.9	10.3	5.6
Tobacco manufactures . . . . .	63.6	57.0	55.4	52.5	-1.6	-2.9
Textile mill products . . . . .	800.4	792.3	784.0	776.8	-8.3	-7.2
Apparel and other textile products . . . . .	1,134.3	1,129.4	1,145.0	1,122.5	15.6	-22.5
Paper and allied products . . . . .	508.3	518.2	526.5	541.7	8.3	15.2
Printing and publishing . . . . .	624.7	646.5	672.3	702.5	25.8	30.2
Chemicals and allied products . . . . .	600.1	616.0	628.5	637.1	12.5	8.6
Petroleum and coal products . . . . .	127.8	131.3	136.1	139.6	4.8	3.5
Rubber and misc. plastics products . . . . .	492.9	558.1	589.2	601.9	31.1	12.7
Leather and leather products . . . . .	227.0	218.4	219.4	207.6	1.0	-11.8
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	3,918	4,008	4,147	4,316	139	169
<b>WHOLESALE AND RETAIL TRADE .</b>	15,649	16,316	17,181	17,702	865	521
<b>WHOLESALE TRADE . . . . .</b>	3,746	3,878	4,085	4,250	207	165
<b>RETAIL TRADE . . . . .</b>	11,904	12,438	13,096	13,453	658	357
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	3,243	3,397	3,596	3,773	199	177
<b>SERVICES . .</b>	13,043	13,683	14,445	15,136	762	691

<sup>1</sup> For coverage of series, see footnote 1, table B-2 (page 88).

p=preliminary.

# ESTABLISHMENT DATA ANNUAL AVERAGES

## 3. Gross hours and earnings of production or nonsupervisory workers<sup>1</sup> on private nonagricultural payrolls by industry division and major manufacturing group

Industry	Average weekly hours				Average hourly earnings				Average weekly earnings			
	1976	1977	1978	1979 <sup>P</sup>	1976	1977	1978	1979 <sup>P</sup>	1976	1977	1978	1979 <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	36.1	36.0	35.8	35.7	\$4.86	\$5.25	\$5.69	\$6.16	\$175.45	\$189.00	\$203.70	\$219.91
<b>MINING</b> .....	42.4	43.4	43.3	43.0	6.46	6.94	7.67	8.49	273.90	301.20	332.11	365.07
<b>CONSTRUCTION</b> .....	36.8	36.5	36.8	36.9	7.71	8.10	8.65	9.25	283.73	295.65	318.32	341.33
<b>MANUFACTURING</b> .....	40.1	40.3	40.4	40.2	5.22	5.68	6.17	6.69	209.32	228.90	249.27	268.94
Overtime hours .....	3.1	3.5	3.6	3.3	-	-	-	-	-	-	-	-
<b>DURABLE GOODS</b> .....	40.6	41.0	41.1	40.8	5.58	6.06	6.58	7.12	226.55	248.46	270.44	290.50
Overtime hours .....	3.2	3.7	3.8	3.5	-	-	-	-	-	-	-	-
Lumber and wood products .....	39.9	39.8	39.8	39.5	4.72	5.10	5.60	6.09	188.33	202.98	222.88	240.56
Furniture and fixtures .....	38.8	39.0	39.3	38.6	3.99	4.34	4.68	5.06	154.81	169.26	183.92	195.32
Stone, clay, and glass products .....	41.1	41.3	41.6	41.5	5.33	5.81	6.32	6.84	219.06	239.95	262.91	283.86
Primary metal industries .....	40.8	41.3	41.8	41.4	6.77	7.40	8.20	8.98	276.22	305.62	342.76	371.77
Fabricated metal products .....	40.8	41.0	41.0	40.7	5.49	5.91	6.34	6.82	223.99	242.31	259.94	277.57
Machinery, except electrical .....	41.2	41.5	42.0	41.8	5.79	6.26	6.77	7.33	238.55	259.79	284.34	306.39
Electric and electronic equipment .....	40.0	40.4	40.3	40.3	4.96	5.39	5.82	6.31	198.40	217.76	234.55	254.29
Transportation equipment .....	41.7	42.5	42.2	41.2	6.62	7.28	7.91	8.52	276.05	309.40	333.80	351.02
Instruments and related products .....	40.3	40.6	40.9	40.8	4.93	5.29	5.71	6.17	198.68	214.77	233.54	251.74
Miscellaneous manufacturing industries .....	38.8	38.8	38.8	38.9	4.04	4.36	4.69	5.04	156.75	169.17	181.97	196.06
<b>NONDURABLE GOODS</b> .....	39.4	39.4	39.4	39.3	4.70	5.11	5.53	6.00	185.18	201.33	217.88	235.80
Overtime hours .....	3.0	3.2	3.2	3.1	-	-	-	-	-	-	-	-
Food and kindred products .....	40.5	40.0	39.7	39.8	4.98	5.37	5.80	6.27	201.69	214.80	230.26	249.55
Tobacco manufactures .....	37.5	37.8	38.1	38.0	4.98	5.54	6.13	6.69	186.75	209.41	233.55	254.22
Textile mill products .....	40.1	40.4	40.4	40.4	3.69	3.99	4.30	4.66	147.97	161.20	173.72	188.26
Apparel and other textile products .....	35.8	35.6	35.6	35.2	3.40	3.62	3.94	4.24	121.72	128.87	140.26	149.25
Paper and allied products .....	42.5	42.9	42.9	42.6	5.47	5.96	6.52	7.12	232.48	255.68	279.71	303.31
Printing and publishing .....	37.5	37.7	37.6	37.5	5.71	6.12	6.50	6.91	214.13	230.72	244.40	259.13
Chemicals and allied products .....	41.6	41.7	41.9	41.9	5.91	6.43	7.01	7.59	245.86	268.13	293.72	318.02
Petroleum and coal products .....	42.1	42.7	43.6	43.8	7.21	7.83	8.63	9.38	303.54	334.34	376.27	410.84
Rubber and misc. plastics products .....	40.7	41.0	40.9	40.5	4.66	5.17	5.52	5.96	189.66	211.97	225.77	241.38
Leather and leather products .....	37.4	36.9	37.1	36.5	3.40	3.61	3.89	4.23	127.16	133.21	144.32	154.40
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	39.8	39.9	40.0	39.9	6.45	6.99	7.57	8.17	256.17	278.90	302.80	325.98
<b>WHOLESALE AND RETAIL TRADE</b> .....	33.7	33.3	32.9	32.6	3.97	4.28	4.67	5.06	133.79	142.52	153.64	164.96
<b>WHOLESALE TRADE</b> .....	38.7	38.8	38.8	38.8	5.03	5.39	5.88	6.38	194.66	209.13	228.14	247.54
<b>RETAIL TRADE</b> .....	32.1	31.6	31.0	30.6	3.57	3.85	4.20	4.53	114.60	121.66	130.20	138.62
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.4	36.4	36.4	36.3	4.27	4.54	4.90	5.28	155.43	165.26	178.36	191.66
<b>SERVICES</b> .....	33.3	33.0	32.8	32.7	4.31	4.65	4.99	5.36	143.52	153.45	163.67	175.27

<sup>1</sup>For coverage of series, see footnote 1, table B-2 (page 88).

<sup>P</sup>preliminary unweighted averages.

# Explanatory Notes

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

## Introduction

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

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

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

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

### Employment

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

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

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

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

### Hours of work

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



## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

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

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

## COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

## Household data

### (A tables)

#### COLLECTION AND COVERAGE

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

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

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

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

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

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

## CONCEPTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## HISTORIC COMPARABILITY

### Raised lower age limit

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

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

### Noncomparability of labor force levels

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

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

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

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

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

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than determined by the interviewer as before. The purpose of this change is to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households has race determined by the household respondent and seven-eighths of the sample households has race determined by interviewer observation. The corresponding numbers are 2/8 and 6/8 in November 1978, 3/8 and 5/8 in December 1978, 4/8 and 4/8 from January 1979 through September 1979, 5/8 and 3/8 in October 1979, and so on, until the entire sample has race determined by the household respondent in January 1980. Although the impact of this change is presently unknown, it is possible that it will cause a break in the time series given for some racial statistics.

Beginning in 1979, the first stage ratio estimation method was changed in the CPS estimation procedure. The new procedure is described in the Estimating Methods section. The reasoning behind the change and an indication of the differences appear in "Revisions in the Current Population Survey in January 1979" in the February issue of *Employment and Earnings*. Differences between the old and new procedures exist only for metropolitan and nonmetropolitan estimates, not for the total U.S.

#### Changes in occupational classification system

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

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

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

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

#### Changes in sample design

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

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

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

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

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

be vacant or otherwise not eligible for interview.

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

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

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

## ESTIMATING METHODS

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

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

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of

the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 3 to 5 percent depending on weather, vacations, etc.

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

a. *First-stage ratio estimate.* In the CPS, a portion of the 614 sample areas are chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South and West), and secondly, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by

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

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

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

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

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

#### Rounding of estimates

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals

and components to the nearest thousand. Differences, however, are insignificant.

#### Reliability of the estimates

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

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

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

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

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

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

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

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

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

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

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

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard

error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table I contains factors for use with tables C, E, G and H to compute approximate standard errors, as described below, for levels, labor force participation rates and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note, that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

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

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

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

*Illustration.* Assume that the tables showed that the number of persons working a specific number of hours was 12,000,000. an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate of 12,000,000 is about 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 58 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

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

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

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

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

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

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



Table B. Standard errors of unemployment rates for major characteristics

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

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

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

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

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

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

(In thousands)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

# Establishment data

## (B, C, and D tables)

### COLLECTION

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

#### Federal-State cooperation

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

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

#### Shuttle schedules

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

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

### CONCEPTS

#### Industrial classification

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

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

#### Industry employment

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

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

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

#### Industry hours and earnings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

"Real" earnings or earnings in constant dollars, are computed by dividing the earnings averages for the current month by the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and then multiplying by 100. "Real" earnings for months prior to January 1978 are deflated by the unrevised CPI-W, whereas those for January 1978 forward are deflated by the revised CPI-W. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in the purchasing power of the dollar since the base period (1967).

**Average hourly earnings excluding overtime.** Average hourly earnings excluding overtime premium pay are computed by dividing the total production-worker payroll for the industry group by the sum of total production-worker hours and one-half of total overtime hours. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-540). Both methods eliminate only the earnings due to overtime paid for

at 1½ times the straight-time rates. No adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

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

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

#### **Labor turnover**

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

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

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

*Recalls* are permanent or temporary additions to the employment roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting more than 7 consecutive days. (The collection of recalls, as a separate item, began January 1976.)

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

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

*Quits* are terminations of employment initiated by employees, failure to report after being hired (if counted as new hires previously), and unauthorized absences, if on the last day of the month

the person has been absent more than 7 consecutive calendar days.

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

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

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

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

#### **ESTIMATING METHODS**

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

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

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

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

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

See footnotes at end of table.



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

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

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

<sup>2</sup> The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are modified by a wedging technique designed to com-

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

for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1978 levels. Normally, benchmark adjustments are made annually.

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

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted at levels between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1978 benchmark adjustment is shown in table K.

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

## THE SAMPLE

### Design

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

**Table K. Comparison of nonagricultural employment benchmarks and estimates for March 1978**

Industry division	Benchmark March 1978	Estimate March 1978	Percent difference
Total .....	84,455	83,897	0.7
Mining .....	699	686	1.9
Construction .....	3,733	3,675	1.6
Manufacturing .....	20,122	19,995	.6
Transportation and public utilities .....	4,804	4,759	.9
Wholesale and retail trade .....	18,878	18,801	.4
Finance, insurance, and real estate .....	4,623	4,577	1.0
Services .....	15,870	15,678	1.2
Government .....	15,726	15,726	0

which a high proportion of total employment is concentrated in relatively few establishments, a large percentage of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing

divisions generally show less fluctuations from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

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

#### Coverage

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

#### Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a "link relative" technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table N presents the average percent revisions of the five 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 N and for individual industries with the specified number of employees in table O. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error from the averages that would have been obtained from a complete census.

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

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

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

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

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been re-

**Table L. Approximate size and coverage of BLS employment and payrolls sample, March 1978<sup>1</sup>**

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total .....	161,800	33,453,000	40
Mining .....	2,100	268,000	38
Construction .....	15,800	636,000	17
Manufacturing .....	45,800	11,268,000	56
Transportation and public utilities:			
Railroad transportation (ICC) .....	39	471,000	91
Other transportation and public utilities ..	7,200	2,093,000	49
Wholesale and retail trade .....	39,500	3,232,000	17
Finance, insurance, and real estate .....	10,600	1,701,000	37
Services .....	23,900	3,104,000	20
Government:			
Federal (Civil Service Commission) <sup>2</sup> .....	4,600	2,725,000	100
State and local .....	12,300	7,955,000	61

<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 BLS by the Office of Personnel Management. State and area estimates are based on a sample of 3,700 reports covering about 55 percent of employment in Federal establishment.

**Table M. Approximate size and coverage of BLS labor turnover sample, March 1978**

Industry	Employees	
	Number reported	Percent of total
Total .....	10,222,680	47
Manufacturing .....	9,345,940	46
Mining <sup>1</sup> .....	186,560	21
Telephone communication ....	698,980	72

<sup>1</sup> June 1978 data used due to strike in March.

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

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

[In percent]

Industry division	Average benchmark revision in estimates of employment <sup>1</sup>	Relative errors <sup>2</sup> (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment .....	0.2		
Total private .....	.3	0.1	0.2
Mining .....	1.3	.5	.5
Contract construction .....	1.3	.2	.3
Manufacturing .....	.3	.1	.1
Durable .....	.3	.1	.1
Nondurable goods .....	.5	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.2	.1	.2
Wholesale .....	.9	.2	.3
Retail .....	.2	.2	.2
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.7	.4	.8
Government <sup>3</sup> .....	.1	—	—

<sup>1</sup> The average percent revision in employment for the 1969-71, 1974 and 1978 benchmarks.

<sup>2</sup> Relative errors relate to March 1971 data.

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

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

Size of employment estimate	Root-mean-square error of employment estimates <sup>1</sup>	Relative errors <sup>2</sup> (in percent)	
		Average weekly hours	Average hourly earnings
50,000 .....	2,100	0.9	1.5
100,000 .....	4,400	.7	1.1
200,000 .....	7,100	.5	.9
500,000 .....	15,200	.4	.8
1,000,000 .....	17,100	.3	.5
2,000,000 .....	28,500	.3	.5

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

<sup>2</sup> Relative errors relate to March 1971 data.

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

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
<b>INDUSTRY DIVISION</b>		
Total nonagricultural employment .....	83,000	75,000
Mining .....	8,000	5,000
Contract construction .....	32,000	30,000
Manufacturing .....	32,000	36,000
Durable two-digit industries .....	3,700	3,500
Nondurable two-digit industries ..	2,500	2,500
Transportation and public utilities ...	20,000	15,000
Wholesale and retail trade .....	29,000	27,000
Finance, insurance, and real estate ...	8,000	8,000
Services .....	35,000	35,000
Government .....	43,000	37,000
<b>DETAILED INDUSTRIES: SIZE OF EMPLOYMENT ESTIMATES</b>		
50,000 .....	300	400
100,000 .....	700	700
200,000 .....	1,100	1,100
500,000 .....	3,900	4,100
1,000,000 .....	3,800	3,900
2,000,000 .....	6,000	6,100

NOTE: Division level data are based on differences from January 1972 through June 1979. Detailed industry data are based on differences from August 1978 through June 1979.

## 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 nonfinancial corporations, in which there are no self-employed.

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

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

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

##### Notes on the data

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

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

## State and area unemployment data

(E table)

#### FEDERAL-STATE COOPERATIVE PROGRAM

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

#### ESTIMATING METHODS

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

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

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

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

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

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

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

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

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

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 years is wedged into the monthly estimates in order to minimize the disturbance to the original series. Finally, the second-stage estimates are forced into agreement with CPS annual averages. In the 10 States which use CPS estimates monthly, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

## Seasonal adjustment

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

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

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

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

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

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

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

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

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

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

The revised seasonally adjusted series for the establishment data reflect experience through June 1979. Seasonal factors to be used for current adjustment appear in the October 1979 issue of *Employment and Earnings*.

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

# U.S. Department of Labor

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

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