

# Employment and Earnings

## September 1979



U. S. Department of Labor  
Bureau of Labor Statistics

Vol. 26 No. 9





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

BUREAU OF LABOR STATISTICS  
Janet L. Norwood, Commissioner

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

*Employment and Earnings* may be ordered through the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Subscription price per year \$18 domestic, and \$22.50 foreign. Single copy \$1.50 domestic, and \$1.90 foreign. Prices are subject to change by the U.S. Government Printing Office.

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The Secretary of Labor has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through February 28, 1981. Controlled circulation postage paid at Riverdale, Md.

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Library of Congress Catalog Number 70-11379.

Employment and Earnings (Dept. of Labor Pub.) (USPS 081-990)

## 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 1978 issue marks the introduction of March 1977 benchmarks and conversion to the 1972 SIC.

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

# Employment and Earnings

Vol. 26 No. 9 September 1979

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Editors: Chester L. Green, Gloria P. Green

## CONTENTS

	Page
List of statistical tables .....	2
Employment and unemployment developments, August 1979 .....	4
Spendable earnings formulas, 1977-79 .....	6
Charts .....	9
Statistical tables:	
<b>Not seasonally adjusted—</b>	
Household data .....	21
Establishment data:	
Employment .....	53
Hours and earnings .....	85
Labor turnover .....	116
State and area unemployment data .....	125
<b>Seasonally adjusted series—</b>	
Household data .....	45
Establishment data:	
Employment .....	70
Hours and earnings .....	106
Productivity .....	108
Labor turnover .....	121
Explanatory notes .....	130

# MONTHLY HOUSEHOLD DATA

Page

## Employment Status

A- 1. Employment status of the noninstitutional population 16 years and over, 1947 to date . . . . .	21
A- 2. Employment status of the noninstitutional population 16 years and over by sex, 1967 to date . . . . .	22
A- 3. Employment status of the noninstitutional population by sex, age, and race . . . . .	23
A- 4. Labor force by sex, age, and race . . . . .	25
A- 5. Employment status of black workers by sex and age . . . . .	27
A- 6. Employment status of the noninstitutional population by race, sex, and age . . . . .	28
A- 7. Employment status of the noninstitutional population 16-21 years of age by race and sex . . . . .	29
A- 8. Full- and part-time status of the civilian labor force by sex, age, and race . . . . .	30
A- 9. Employment status of the noninstitutional population by family relationship . . . . .	31

## Characteristics of the Unemployed

A-10. Unemployed persons by marital status, sex, age, and race . . . . .	31
A-11. Unemployed persons by occupation of last job and sex . . . . .	32
A-12. Unemployed persons by industry of last job and sex . . . . .	32
A-13. Unemployed persons by reason for unemployment, sex, age, and race . . . . .	33
A-14. Unemployed persons by reason for unemployment, duration, sex, and age . . . . .	33
A-15. Unemployed jobseekers by the jobsearch methods used, sex, age, and race . . . . .	34
A-16. Unemployed jobseekers by the jobsearch methods used, sex, and reason for unemployment . . . . .	34
A-17. Unemployed persons by duration of unemployment . . . . .	35
A-18. Unemployed persons by duration, sex, age, race, and marital status . . . . .	35
A-19. Unemployed persons by duration, occupation, and industry of last job . . . . .	36

## Characteristics of the Employed

A-20. Employed persons by sex and age . . . . .	36
A-21. Employed persons by occupation, sex, and age . . . . .	37
A-22. Employed persons by occupation, sex, and race . . . . .	38
A-23. Employed persons by class of worker, age, and sex . . . . .	39
A-24. Employed persons by industry and occupation . . . . .	39
A-25. Employed persons with a job but not at work by reason, pay status, and sex . . . . .	40
A-26. Persons at work by type of industry and hours of work . . . . .	40
A-27. Persons at work 1-34 hours by usual status and reason for working less than 35 hours . . . . .	41
A-28. Nonagricultural workers-by industry and full- or part-time status . . . . .	41
A-29. Persons at work in nonagricultural industries by full- or part-time status, sex, age, race, and marital status . . . . .	42
A-30. Persons at work in nonfarm occupations by full- or part-time status and sex . . . . .	43

## Characteristics of 14 and 15 year-olds

A-31. Employment status of 14-15 year-olds by sex and race . . . . .	44
A-32. Employed 14-15 year-olds by sex, class of worker, and occupation . . . . .	44

## Seasonally Adjusted Employment and Unemployment Data

A-33. Employment status of the noninstitutional population by sex and age, seasonally adjusted . . . . .	45
A-34. Full- and part-time status of the civilian labor force, seasonally adjusted . . . . .	46
A-35. Employment status by race, sex, and age, seasonally adjusted . . . . .	46
A-36. Major unemployment indicators, seasonally adjusted . . . . .	47
A-37. Unemployed persons by duration of unemployment, seasonally adjusted . . . . .	47
A-38. Rates of unemployment by sex and age, seasonally adjusted . . . . .	48
A-39. Unemployed persons by reason for unemployment, seasonally adjusted . . . . .	48
A-40. Employed persons by sex and age, seasonally adjusted . . . . .	49
A-41. Unemployed persons by sex and age, seasonally adjusted . . . . .	49
A-42. Employed persons by selected social and economic categories, seasonally adjusted . . . . .	50

## Characteristics of Vietnam-Era Veterans and Nonveterans

A-43. Employment status of male Vietnam-era veterans and nonveterans by age . . . . .	51
---	----

# MONTHLY ESTABLISHMENT DATA

Page

## Employment—National

B- 1. Employees on nonagricultural payrolls, by industry division, 1919 to date .....	53
B- 2. Employees on nonagricultural payrolls, by industry .....	54
B- 3. Women employees on nonagricultural payrolls, by industry .....	63
B- 4. Employees on nonagricultural payrolls, by industry, seasonally adjusted .....	70
B- 5. Women employees on nonagricultural payrolls, by industry, seasonally adjusted .....	71
B- 6. Production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted .....	72
B- 7. Indexes of diffusion: Percent of industries in which employment increased .....	73

## Employment—State and Area

B- 8. Employees on nonagricultural payrolls for States and selected areas, by industry division .....	74
---	----

## Hours and Earnings—National

C- 1. Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, 1957 to date .....	85
C- 2. Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, by industry .....	86
C- 3. Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government .....	102
C- 4. Average hourly earnings excluding overtime of production workers on manufacturing payrolls, by industry .....	102
C- 5. Gross and spendable average weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, in current and 1967 dollars .....	103
C- 6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers on private nonagricultural payrolls .....	104
C- 7. Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted .....	106
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 .....	107
C- 9. Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted .....	108
C-10. Hours of wage and salary workers in nonagricultural establishments, by industry division .....	108
C-11. Indexes of output and compensation per hour, unit costs, and prices, private business sector, seasonally adjusted .....	109
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 .....	110

## Hours and Earnings—State and Area

C-13. Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas .....	111
---	-----

## Labor Turnover—National

D- 1. Labor turnover rates in manufacturing, 1969 to date .....	116
D- 2. Labor turnover rates, by industry .....	117
D- 3. Labor turnover rates in manufacturing, 1969 to date, seasonally adjusted .....	121

## Labor Turnover—State and Area

D- 4. Labor turnover rates in manufacturing for selected States and areas .....	122
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# MONTHLY STATE AND AREA UNEMPLOYMENT DATA

E- 1. Labor force and unemployment by State and selected metropolitan areas .....	125
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# Employment and Unemployment Developments, August 1979

Unemployment rose in August and total employment declined. The Nation's overall unemployment rate was 6.0 percent, up from 5.7 percent in July.

Total employment—as measured by the monthly survey of households—fell by 310,000 in August to 96.9 million. Employment has shown no growth over the March-August period, and the proportion of the population with jobs declined three-tenths of a percentage point to 59.1 percent over the same span.

Nonfarm payroll employment—as measured by the monthly survey of establishments—held at the July level of 88.8 million, as declines in the manufacturing and construction industries were offset by increases in the service-producing sector.

## Unemployment

The unemployment rate rose from 5.7 to 6.0 percent in August; during the prior 12-month period, the rate had fluctuated narrowly around 5.8 percent. The number of persons unemployed also increased over the month, from 5.8 to 6.1 million. Much of this increase was due to a sharp jump in the number of persons on layoff. (See tables A-33 and A-39.)

July-August increases in joblessness among the major demographic groups were uneven. The unemployment rate for adult men (4.2 percent) was little changed over the month, though it was up three-tenths of a percentage point from June. The jobless rate for adult women rose from 5.5 percent in July to 5.9 percent in August, and the teenage rate increased from 15.3 to 16.5 percent. Whereas there was virtually no change in the rate for black and other workers (11.0 percent), the rate for white workers rose from 4.9 to 5.3 percent. (See table A-36.)

The median duration of unemployment fell by more than a full week to 4.9 weeks, reflecting a sizeable increase in the number of the newly unemployed (persons who have been seeking jobs for less than 5 weeks). There was also an increase in long-term joblessness (15 weeks and longer) over the month. (See table A-37.)

## Total employment and the labor force

Total employment declined by 310,000 in August to 96.9 million; this reduction was concentrated among teenagers. Despite substantial fluctuations in the 5 months since March, employment in August was at about the level prevailing in March. Because of the steady upward trend prior to March, employment showed strong growth over the past year (2.1 million), with all major demographic groups sharing in the advance.

The civilian labor force, at 103.0 million, was unchanged over the month, but it was 2.3 million higher than its year-ago level. While the overall labor force participation rate, at 63.7 percent, was little changed from the July level, participation among adult men and teenagers declined, whereas the rate for adult women rose to 51.0 percent, a record high. (See table A-33.)

## Industry payroll employment

Nonfarm payroll employment was unchanged in August at 88.8 million, marking the third straight month that the total has been at this level. Payroll employment had been on a relatively steady upward course prior to March, such that the over-the-year growth (August 1978-79) was a strong 2.6 million. Over-the-month job gains took place in 52 percent of the 172 industries comprising the BLS diffusion index of nonfarm payroll employment. (See tables B-4 and B-7.)

Employment in the goods-producing sector was down by 155,000 from July, as declines of 50,000 in construction and 125,000 in manufacturing overshadowed a gain in mining. Within the durable goods industries, employment reductions of 30,000 in electrical equipment and 10,000 in machinery both were principally the result of strikes; there were also declines of 15,000 in primary metals and 10,000 in the fabricated metals industry. There is also substantial evidence that employment dropped in the automobile industry; however, difficulties in the seasonal adjustment of the employment totals in the transportation equipment industry relating to model changeover make it hard to identify the extent of this drop at

this time. Among the nondurable goods industries, decreases of about 20,000 each were registered in the food processing, apparel, and rubber and plastic products industries. Total factory employment has dropped by about 225,000 since March; this weakness in factory employment was also reflected in an increase in the unemployment rate for workers in this industry since March, from 5.2 to 6.2 percent.

Employment in the service-producing sector rose by 155,000 in August, led by a 75,000 increase in services. Job gains also took place in trade, State and local government, and finance, insurance, and real estate.

### **Hours**

Hours of work remained below March levels. The average workweek of production or nonsupervisory workers on private nonagricultural payrolls was 35.6 hours in August, unchanged from July. The manufacturing workweek declined 0.2 hour over the month to a level of 40.0 hours, while factory overtime, at 3.3 hours, was unchanged from July. (See table C-7.)

The index of aggregate weekly hours declined by 0.3 percent in August. Although the index was up 2.7 percent from August 1978, it has dropped by 0.8 percent since March. (See table C-8.)

### **Hourly and weekly earnings**

Average hourly earnings of production or non-supervisory workers on private nonagricultural payrolls rose 0.2 percent in August and were 8.0 percent above the August 1978 level (seasonally adjusted). Average weekly earnings also rose 0.2 percent in August and were up 7.4 percent over the year.

Before adjustment for seasonality, average hourly earnings edged up 1 cent from July to \$6.16, 45 cents above August 1978; average weekly earnings were \$221.76 in August, up 36 cents from July and \$15.06 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 231.0 (1967 = 100) in August, 0.2 percent higher than in July. The index was 7.6 percent above August a year ago. During the 12-month period ended in July, the Hourly Earnings Index in dollars of constant purchasing power decreased 3.4 percent. (See table C-9.)

# Spendable Earnings Formulas, 1977-79

Formulas for computing spendable average weekly earnings for 1977-79 are shown in the following table. From July 1979 forward, the formulas reflect the provision for advance payment of the earned income credit included in The Revenue Act of 1978. The advance payment provision became effective July 1, 1979. Only the formulas calculated from the tax liabilities of married workers with three dependents are affected by this change and, among these, only for gross average weekly earnings of less than \$165.90.

The earned income credit is a payment to low-income wage earners with at least one dependent child. Under the new provision, eligible workers may request payment, with each of their regular paychecks, of a prorated portion of the earned income credit that they would otherwise receive as an annual tax refund. In the past, workers have been able to reduce Federal income tax withholdings if they could establish that their earnings pattern would make them eligible for a significant

refund without such a reduction. They were not, however, able to request negative income tax withholding. This, in substance, is now permitted under the advance payment provision. Advance payments are limited to earned income credits; no other reductions of Federal income tax liability are covered by the advance payment provision.

Current levels of the national spendable earnings series were not affected by this change in the formulas because the lowest gross earnings level of an industry division (the average weekly earnings of nonsupervisory workers in the wholesale and retail trade division) was above the highest earnings level affected by the change.

For further information on the effects of The Revenue Act of 1978 on spendable earnings series, see Michael Buso, "Changes in the Spendable Earnings Series for 1979," *Employment and Earnings*, March 1979, pp. 9-12.



## Spendable Average Weekly Earnings Formulas, 1977-79

Period	Worker with no dependents <sup>1</sup>		Married worker with 3 dependents <sup>1</sup>	
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
January 1977 - May 1977 .....	0 - 51.92	.9415X	0 - 131.92†	.9415X
	51.93 - 56.73	.8015X + 7.27	131.93 - 136.54†	.6915X + 32.98
	56.74 - 66.35	.7915X + 7.83	136.55 - 153.85†	.6815X + 34.34
	66.36 - 75.96	.7815X + 8.50	153.86 - 155.77	.7815X + 18.96
	75.97 - 80.77	.7715X + 9.25	155.78 - 175.00	.7715X + 20.52
	80.78 - 85.58	.7915X + 7.64	175.01 - 232.69	.7515X + 24.02
	85.59 - 124.04	.7715X + 9.36	232.70 - 251.92	.7715X + 19.37
	124.05 - 162.50	.7515X + 11.84	251.93 - 252.40	.7415X + 26.92
	162.51 - 200.96	.7215X + 16.71	252.41 - 274.73	.7735X + 18.85
	200.97 - 204.33	.7115X + 18.72	274.74 - 317.31	.7567X + 23.46
	204.34 - 223.21	.7483X + 11.20	317.32 - 336.54	.8152X + 4.90
	223.22 - 246.11	.7315X + 14.95	336.55 - 342.31	.78X + 16.75
	246.12 - 288.46	.7147X + 19.09	342.32 - 419.23	.75X + 27.02
	288.47 - 291.35	.6715X + 31.55	419.24 - 496.15	.72X + 39.59
	291.36 - 317.31	.6515X + 37.37	496.16 - 573.08	.68X + 59.44
	317.32 - 329.81	.71X + 18.81	573.09 - 650.00	.64X + 82.36
	329.82 - 368.27	.69X + 25.41	650.01 - 726.92	.61X + 101.86
	368.28 - 406.73	.66X + 36.46		
	406.74 - 445.19	.64X + 44.59		
	June 1977 - December 1977 .....	0 - 68.72	.9415X	0 - 153.85†
68.73 - 75.96		.7986X + 9.82	153.86 - 154.37	.9415X
75.97 - 80.77		.7886X + 10.59	154.38 - 155.77	.7986X + 22.06
80.78 - 85.58		.7744X + 11.74	155.78 - 157.69	.8058X + 20.95
85.59 - 90.38		.7715X + 11.98	157.70 - 175.00	.7886X + 23.64
90.39 - 95.19		.8058X + 8.90	175.01 - 176.92	.8029X + 21.14
95.20 - 124.04		.7715X + 12.17	176.93 - 196.15	.7858X + 24.19
124.05 - 133.65		.7858X + 10.40	196.16 - 232.69	.7515X + 30.91
133.66 - 162.50		.7515X + 14.98	232.70 - 251.92	.7372X + 34.23
162.51 - 172.12		.7729X + 11.50	251.93 - 252.40	.7586X + 28.84
172.13 - 200.96		.7215X + 20.34	252.41 - 253.85	.7358X + 34.60
200.97 - 204.33		.7286X + 18.91	253.86 - 273.08	.7701X + 25.91
204.34 - 210.58		.7024X + 24.28	273.09 - 274.73	.7186X + 39.95
210.59 - 223.21		.6852X + 27.90	274.74 - 292.31	.7306X + 36.66
223.22 - 229.81		.6972X + 25.22	292.32 - 317.31	.6964X + 46.67
229.82 - 246.11		.6629X + 33.09	317.32 - 336.54	.7549X + 28.11
246.12 - 249.04		.6749X + 30.13	336.55 - 342.31	.78X + 19.65
249.05 - 287.50		.6406X + 38.67	342.32 - 350.00	.8014X + 12.31
287.51 - 288.46		.6064X + 48.52	350.01 - 419.23	.75X + 30.31
288.47 - 291.35		.6372X + 39.62	419.24 - 426.92	.7714X + 21.33
291.36 - 317.31	.6515X + 35.47	426.93 - 496.15	.72X + 43.29	
317.32 - 325.96	.71X + 16.91	496.16 - 503.85	.7486X + 29.11	
325.97 - 329.81	.6757X + 28.08	503.86 - 573.08	.68X + 63.66	
329.82 - 364.42	.69X + 23.37	573.09 - 580.77	.7086X + 47.29	
364.43 - 368.27	.6386X + 42.11	580.78 - 650.00	.64X + 87.11	
368.28 - 402.88	.66X + 34.21	650.01 - 657.69	.6614X + 73.18	
402.89 - 406.73	.6257X + 48.03	657.70 - 726.92	.61X + 107.00	
406.74 - 441.35	.64X + 42.22			
1977 Annual Average <sup>2</sup> .....	0 - 61.54	.9415X	0 - 144.62†	.9415X
	61.55 - 66.35	.8015X + 8.61	144.63 - 153.85†	.6915X + 36.15
	66.36 - 75.96	.7915X + 9.27	153.86 - 157.69	.7915X + 20.77
	75.97 - 85.58	.7815X + 10.03	157.70 - 176.92	.7815X + 22.34
	85.59 - 90.38	.7715X + 10.89	176.93 - 196.15	.7715X + 24.12
	90.39 - 95.19	.7915X + 9.09	196.16 - 253.85	.7515X + 28.04
	95.20 - 133.65	.7715X + 11.00	253.86 - 273.08	.7715X + 22.97
	133.66 - 172.12	.7515X + 13.67	273.09 - 292.31	.7415X + 31.16
	172.13 - 210.58	.7215X + 18.83	292.32 - 317.31	.7215X + 37.00
	210.59 - 229.81	.7115X + 20.94	317.32 - 350.00	.78X + 18.44
	229.82 - 249.04	.6915X + 25.53	350.01 - 426.92	.75X + 28.94
	249.05 - 287.50	.6715X + 30.51	426.93 - 503.85	.72X + 41.75
	287.51 - 317.31	.6515X + 36.26	503.86 - 580.77	.68X + 61.90
	317.32 - 325.96	.71X + 17.70	580.78 - 657.69	.64X + 85.13
	325.97 - 364.42	.69X + 24.22	657.70 - 734.62	.61X + 104.86
	364.43 - 402.88	.66X + 35.15		
402.89 - 441.35	.64X + 43.21			
441.36 - 479.81	.62X + 52.03			
479.82 - 556.73	.60X + 61.63			

See footnotes at end of table.

**Spendable Average Weekly Earnings Formulas, 1977-79—Continued**

Period	Worker with no dependents <sup>1</sup>		Married worker with 3 dependents <sup>1</sup>	
	Gross average weekly earnings	Formula (X = gross average weekly earnings)	Gross average weekly earnings	Formula (X = gross average weekly earnings)
January 1978—December 1978	0 - 61.54 61.55- 66.35 66.36- 75.96 75.97- 85.58 85.59- 90.38 90.39- 95.19 95.20-133.65 133.66-172.12 172.13-210.58 210.59-229.81 229.82-249.04 249.05-287.50 287.51-325.96 325.97-340.38 340.39-364.42 364.43-402.88 402.89-441.35	.9395X .7995X+ 8.61 .7895X+ 9.27 .7795X+10.03 .7695X+10.89 .7895X+ 9.09 .7695X+11.00 .7495X+13.67 .7195X+18.83 .7095X+20.94 .6895X+25.53 .6695X+30.51 .6495X+36.26 .6295X+42.78 .69 X+22.19 .66 X+33.12 .64 X+41.18	0 -144.62 † 144.63-153.85 † 153.86-157.69 157.70-176.92 176.93-196.15 196.16-253.85 253.86-273.08 273.09-292.31 292.32-340.38 340.39-350.00 350.01-426.92 426.93-503.85 503.86-580.77 580.78-657.69 657.70-734.62	.9395X .6895X+ 36.15 .7895X+ 20.77 .7795X+ 22.34 .7695X+ 24.12 .7495X+ 28.04 .7695X+ 22.97 .7395X+ 31.16 .7195X+ 37.00 .78 X+ 16.41 .75 X+ 26.91 .72 X+ 39.72 .68 X+ 59.87 .64 X+ 83.10 .61 X+102.83
January 1979—June 1979	0 - 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-440.38 440.39-471.15 471.16-573.07	.9387X .7987X+ 8.88 .7787X+10.58 .7587X+12.65 .7487X+14.09 .7287X+17.75 .6987X+24.56 .6787X+29.90 .6387X+42.21 .5987X+56.98 .66 X+29.98 .61 X+53.54	0 -165.89 † 165.90-182.69 † 182.70-192.30 † 192.31-223.07 223.08-305.76 305.77-384.61 384.62-440.38 440.39-465.38 465.39-550.00 550.01-651.92 651.93-753.84	.9387X .6737X+ 43.96 .6537X+ 47.62 .7787X+ 23.58 .7587X+ 28.03 .7287X+ 37.21 .6987X+ 48.75 .76 X+ 21.75 .72 X+ 40.37 .68 X+ 62.37 .63 X+ 94.96
July 1979—December 1979 <sup>3</sup>	0 - 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-440.38 440.39-471.15 471.16-573.07	.9387X .7987X+ 8.88 .7787X+10.58 .7587X+12.66 .7487X+14.09 .7287X+17.75 .6987X+24.56 .6787X+29.90 .6387X+42.21 .5987X+56.98 .66 X+29.98 .61 X+53.54	0 - 96.15 † 96.16-115.38 † 115.39-142.30 † 142.31-182.69 † 182.70-192.30 † 192.31-223.07 223.08-305.76 305.77-384.61 384.62-440.38 440.39-465.38 465.39-550.00 550.01-651.92 651.93-753.84	1.0387X .9387X+ 9.62 .8137X+ 24.04 .6737X+ 43.96 .6537X+ 47.62 .7787X+ 23.58 .7587X+ 28.03 .7287X+ 37.21 .6987X+ 48.75 .76 X+ 21.75 .72 X+ 40.37 .68 X+ 62.37 .63 X+ 94.96
1979 Annual Average <sup>2</sup>	0 - 63.46 63.47- 84.61 84.62-103.84 103.85-144.23 144.24-182.69 182.70-226.92 226.93-267.30 267.31-307.69 307.70-369.23 369.24-440.38 440.39-471.15 471.16-573.07	.9387X .7987X+ 8.88 .7787X+10.58 .7587X+12.66 .7487X+14.09 .7287X+17.75 .6987X+24.56 .6787X+29.90 .6387X+42.21 .5987X+56.98 .66 X+29.98 .61 X+53.54	0- 96.15 † 96.16-115.38 † 115.39-142.30 † 142.31-165.89 † 165.90-182.69 † 182.70-192.30 † 192.31-223.07 223.08-305.76 305.77-384.61 384.62-440.38 440.39-465.38 465.39-550.00 550.01-651.92 651.93-753.84	.9887X .9387X+ 4.81 .8762X+ 12.02 .8062X+ 21.98 .6737X+ 43.96 .6537X+ 47.62 .7787X+ 23.58 .7587X+ 28.03 .7287X+ 37.21 .6987X+ 48.75 .76 X+ 21.75 .72 X+ 40.37 .68 X+ 62.37 .63 X+ 94.96

<sup>1</sup> For workers who earned the average weekly earnings.

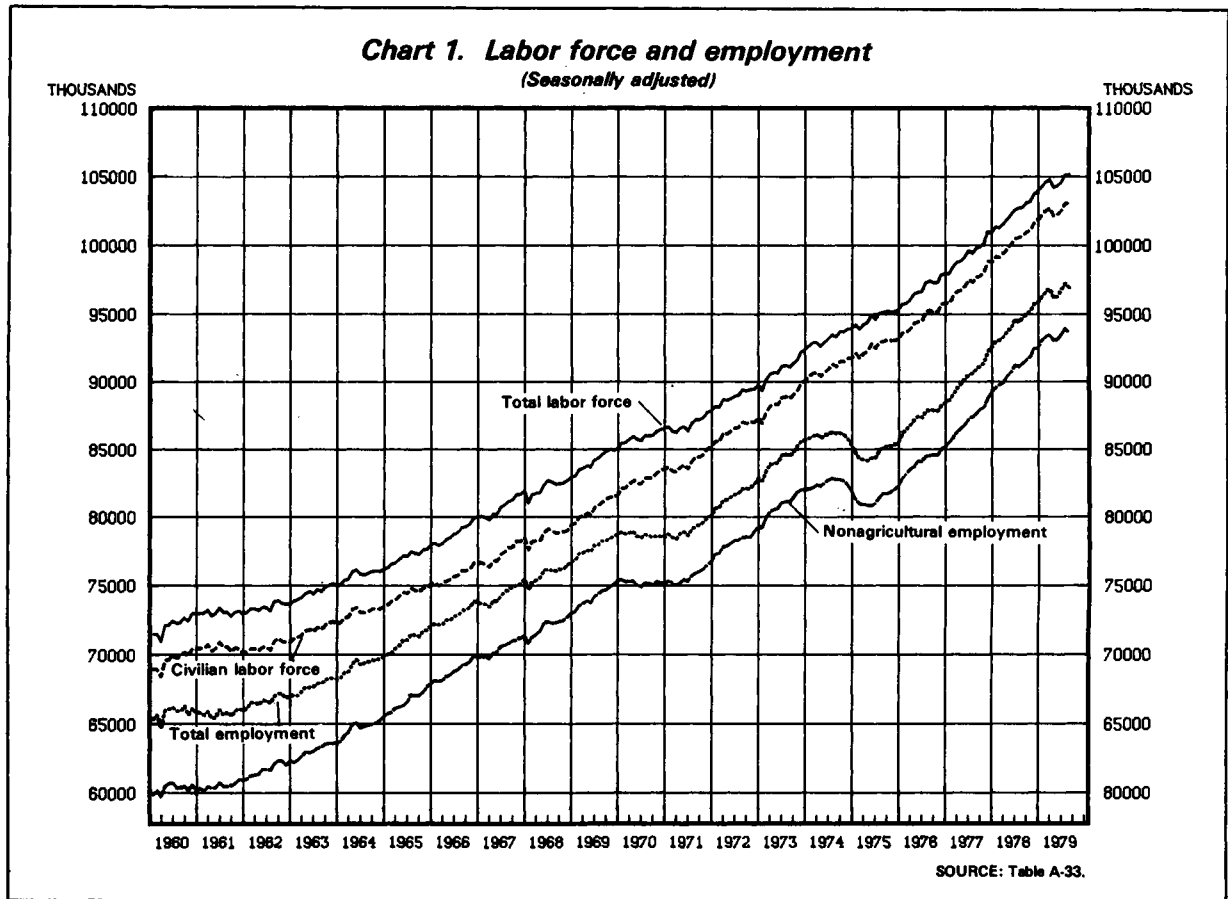
<sup>2</sup> Formulas for computing annual averages take into account changes during the year in income tax rates.

<sup>3</sup> July 1979 marked the beginning of earned income credit advance payments. Prior to this, earned income credits were included only to the extent that they reduced positive income tax liabilities.

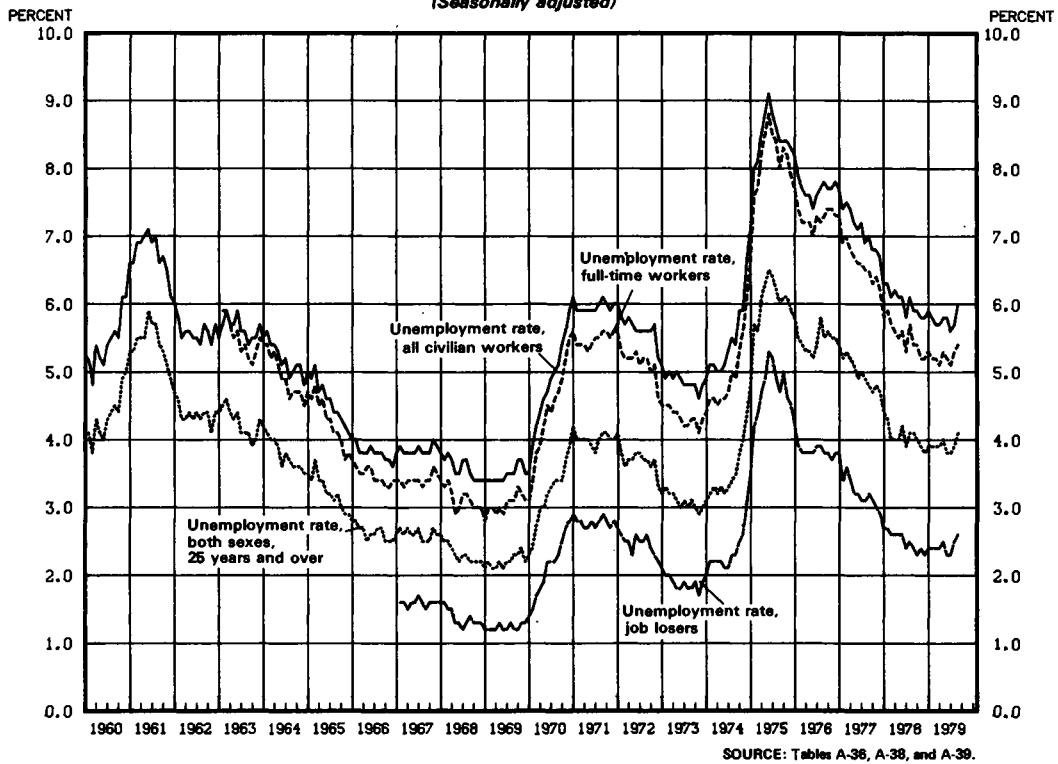
† Workers with earnings in this range were eligible for earned income credits.

# CHARTS

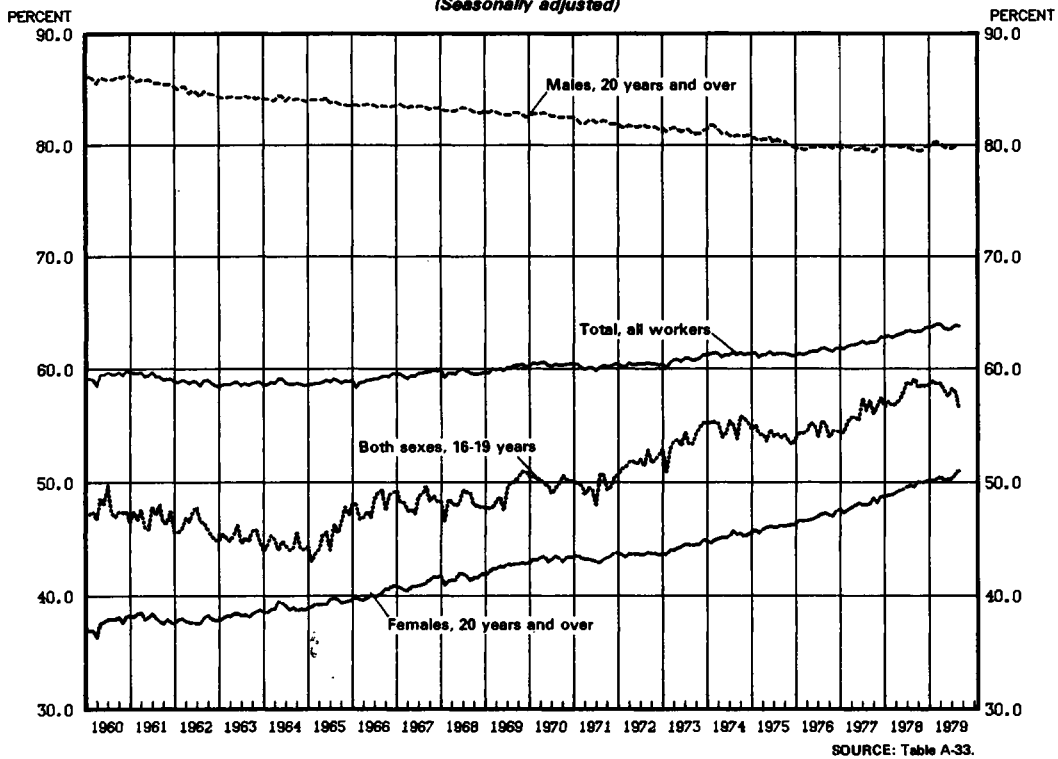
	<i>Page</i>
1. Labor force and employment, 1960-79 .....	9
2. Major unemployment indicators, 1960-79 .....	10
3. Civilian labor force participation rates by sex and age, 1960-79 .....	10
4. Total employment by sex and age, 1960-79 .....	11
5. Employment-population ratios by sex and age, 1960-79 .....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



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

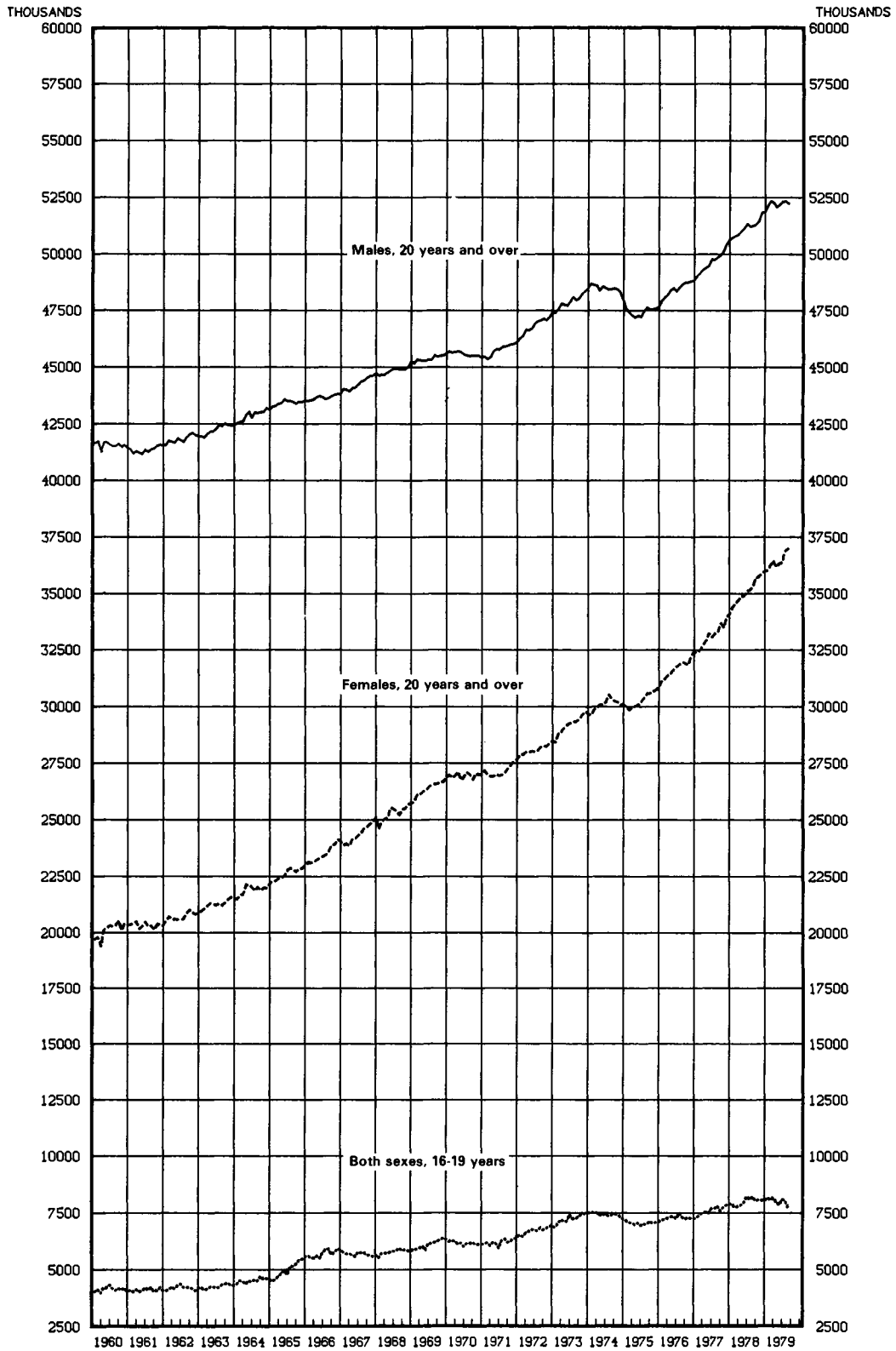


**Chart 3. Civilian labor force participation rates by sex and age**  
(Seasonally adjusted)



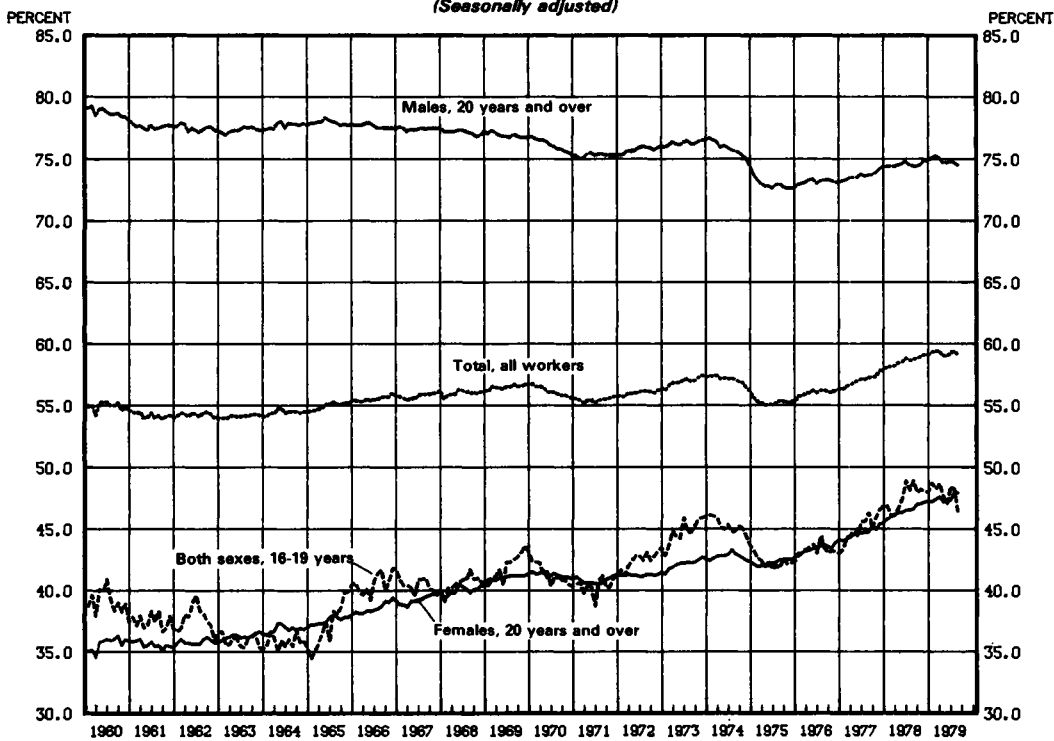
**Chart 4. Total employment by sex and age**

(Seasonally adjusted)



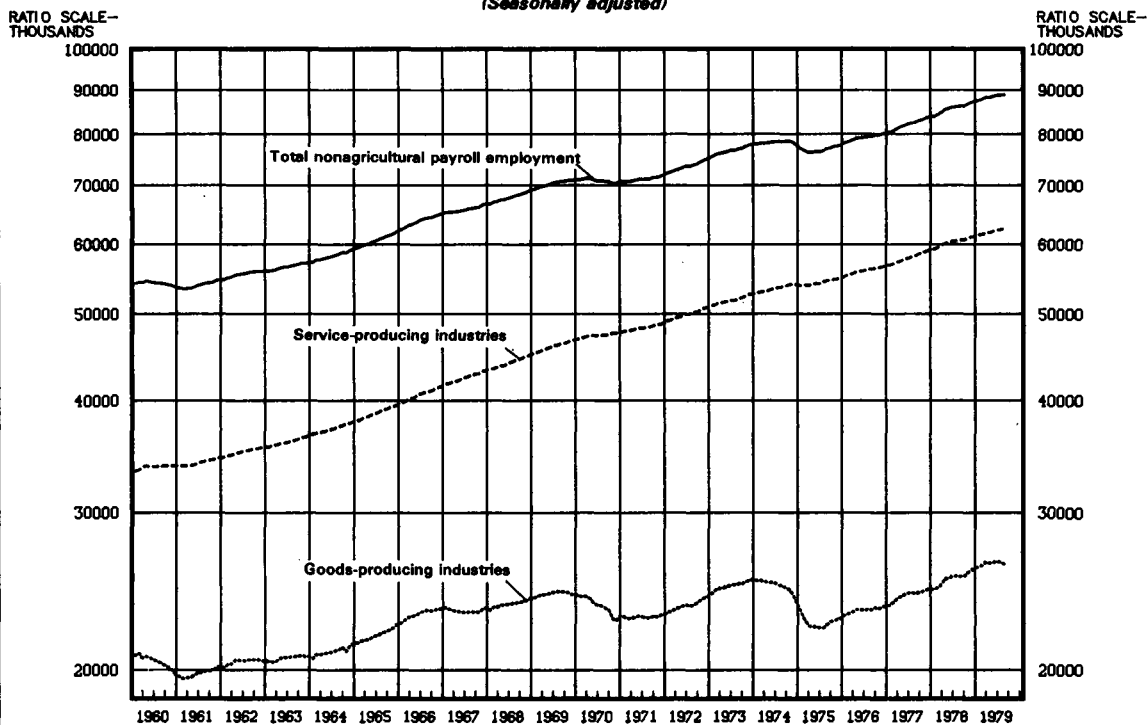
SOURCE: Table A-33.

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



SOURCE: Table A-33.

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

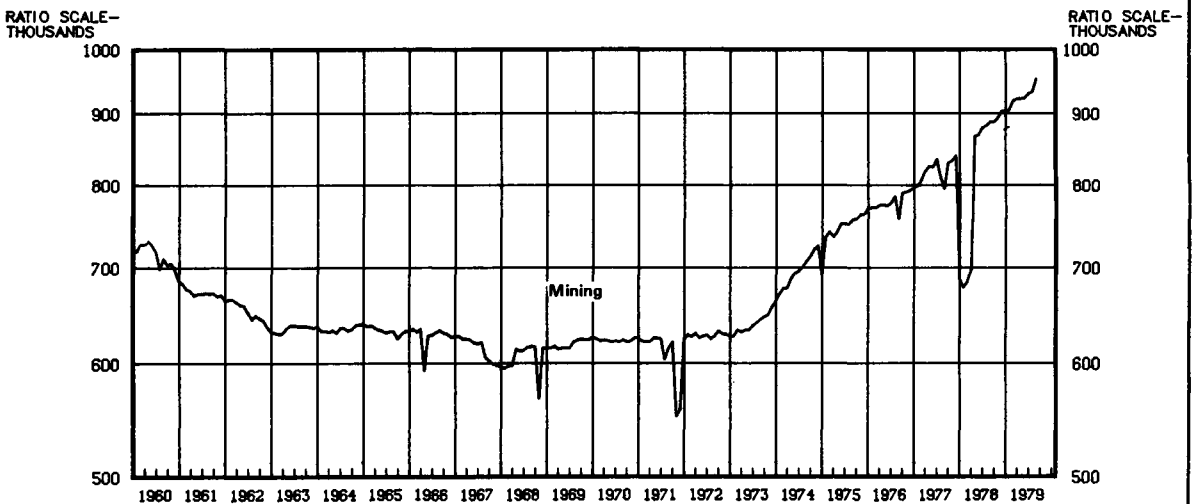
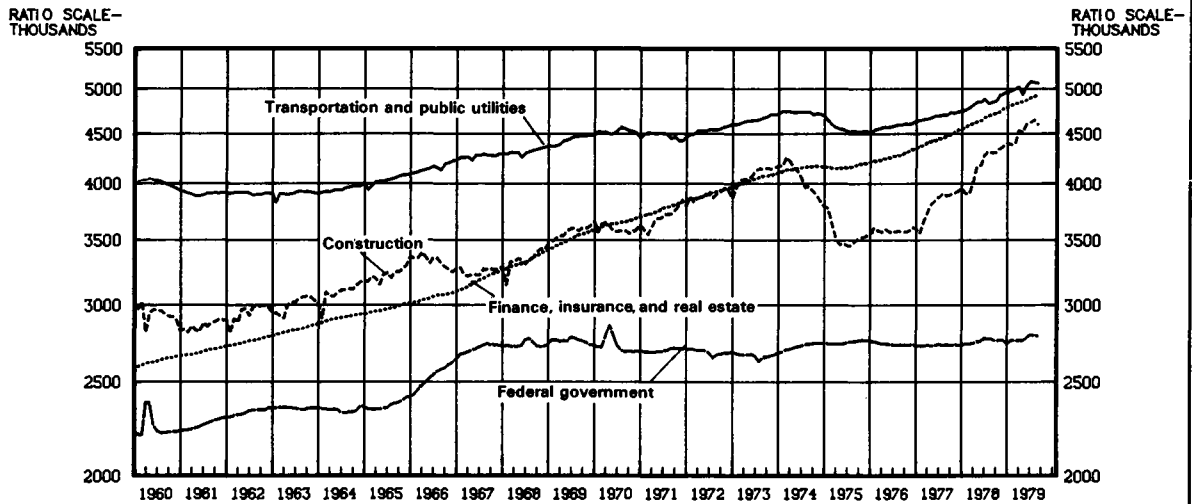
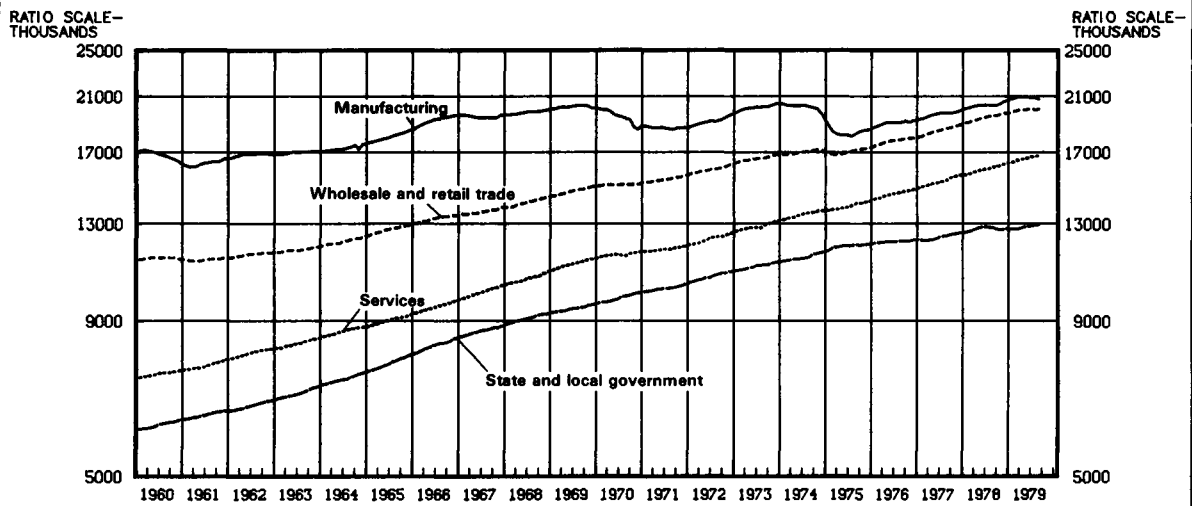


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

### Chart 7. Nonagricultural payroll employment by industry

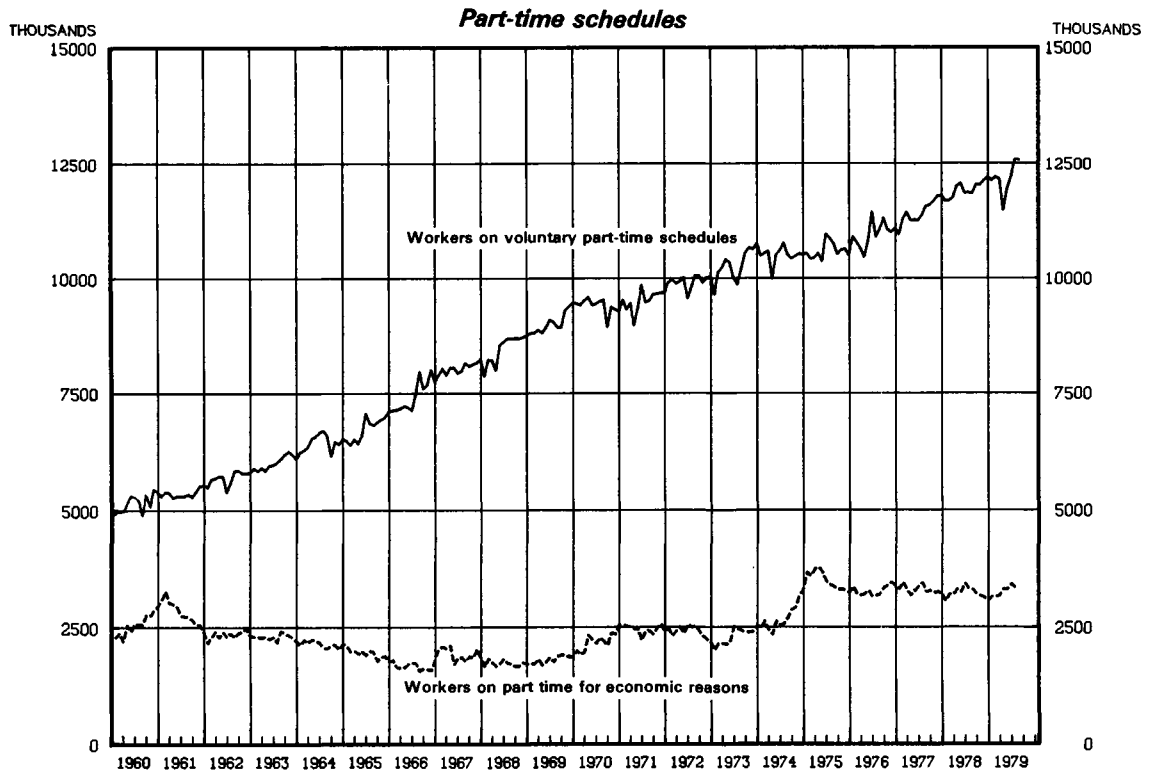
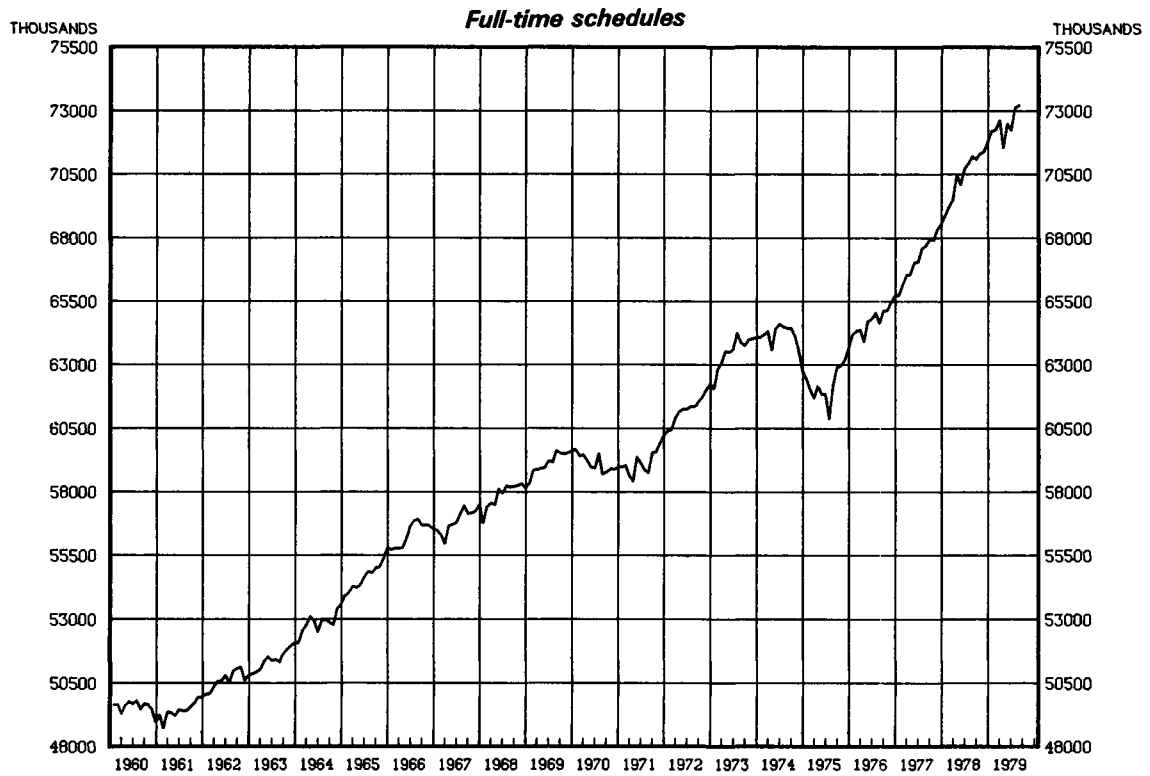
(Seasonally adjusted)



NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

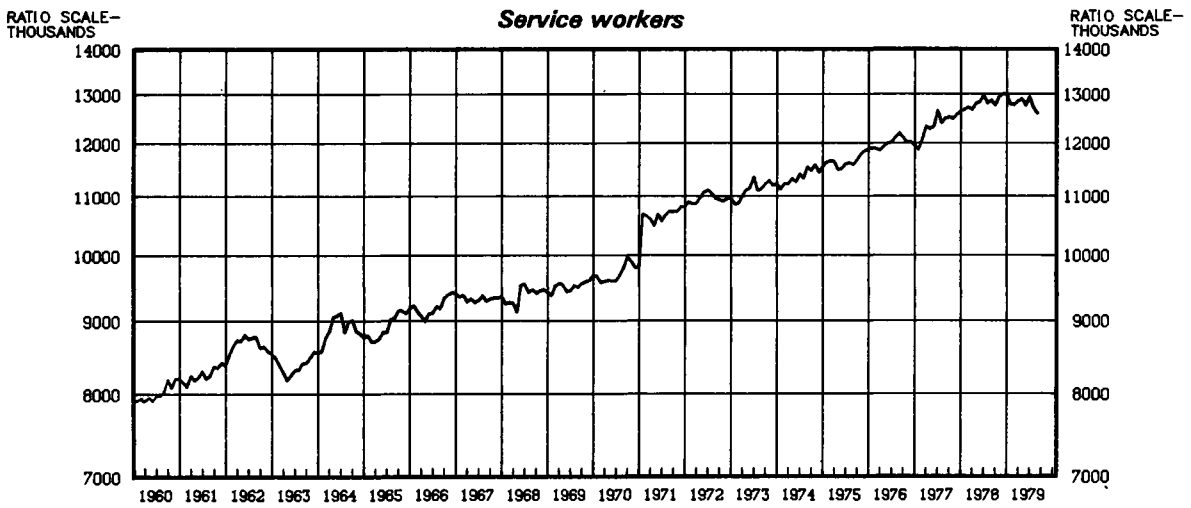
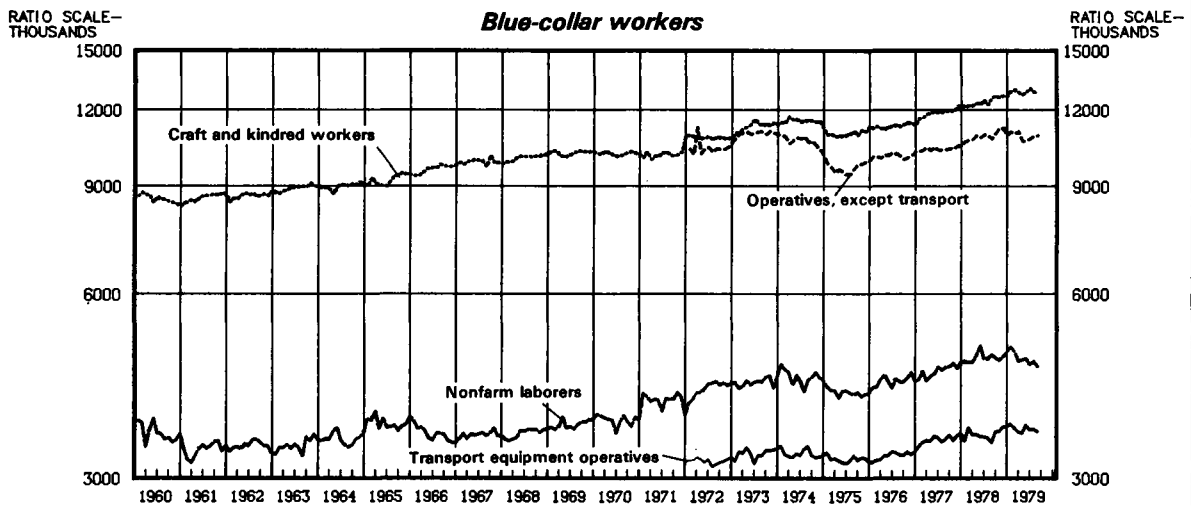
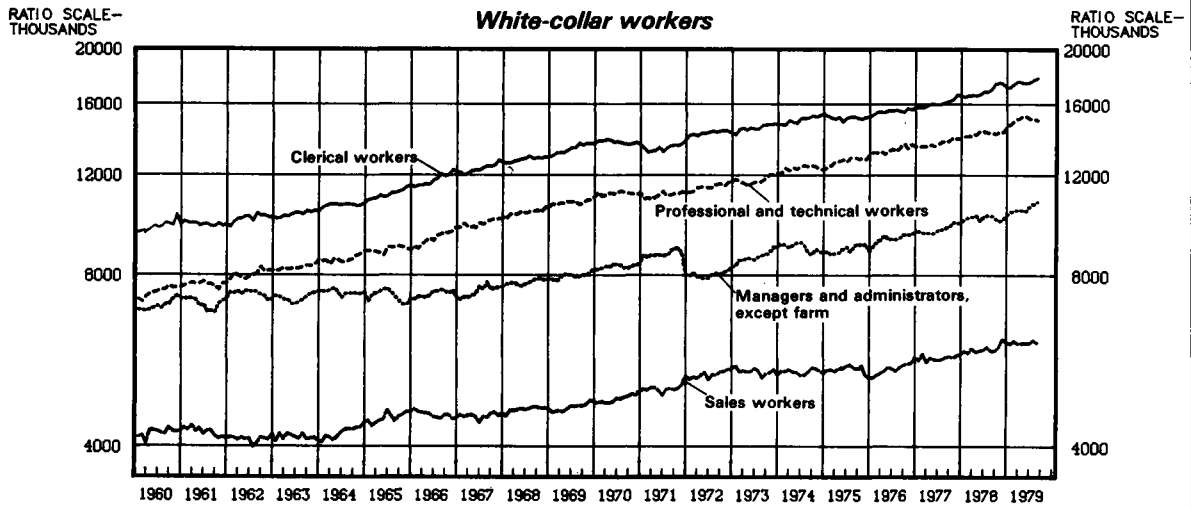


SOURCE: Table A-42.



### Chart 9. Employment in nonfarm occupations

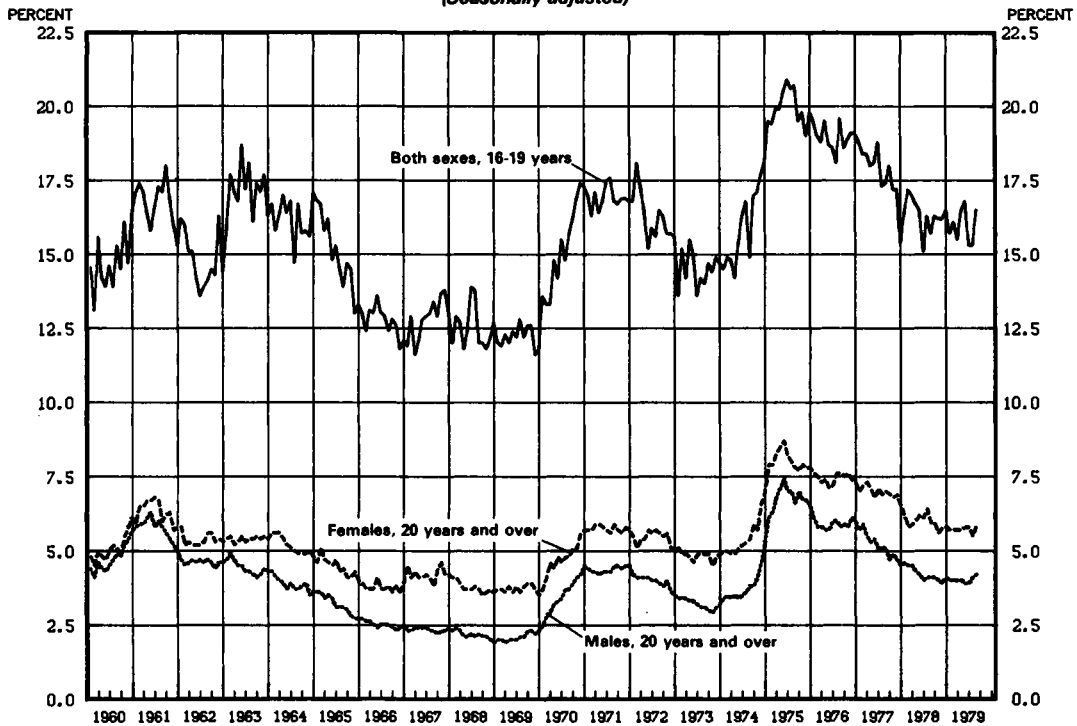
(Seasonally adjusted)



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

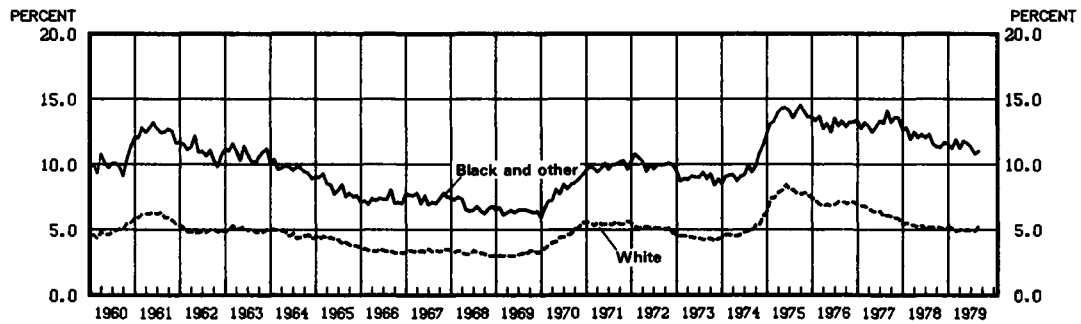
SOURCE: Table A-42.

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

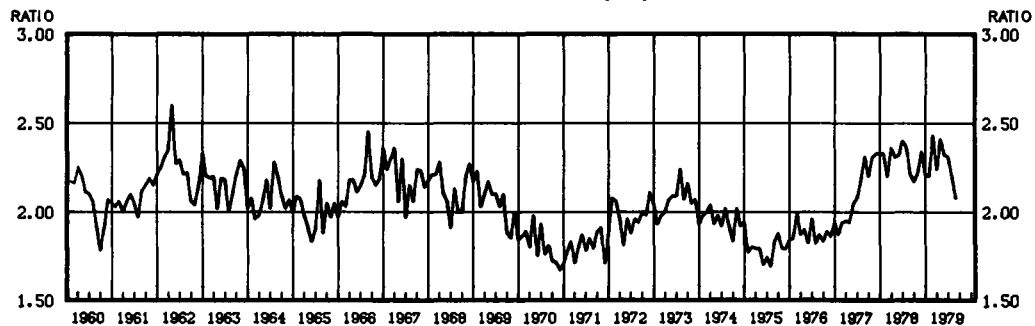


SOURCE: Table A-36.

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

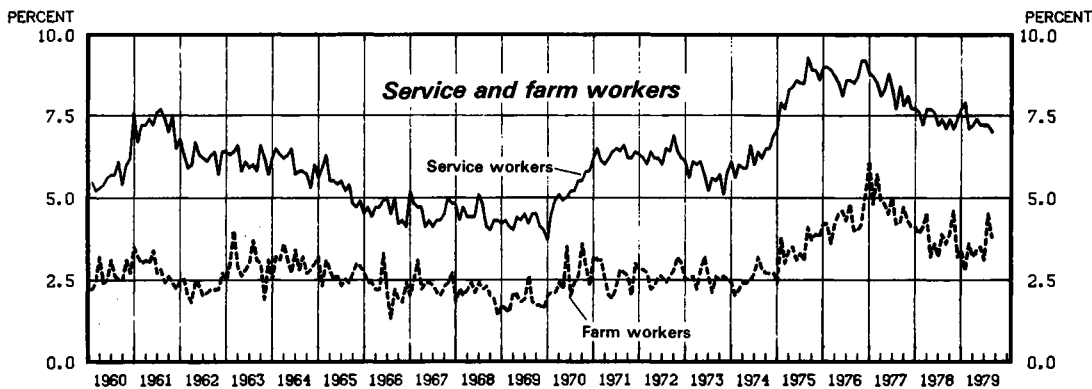
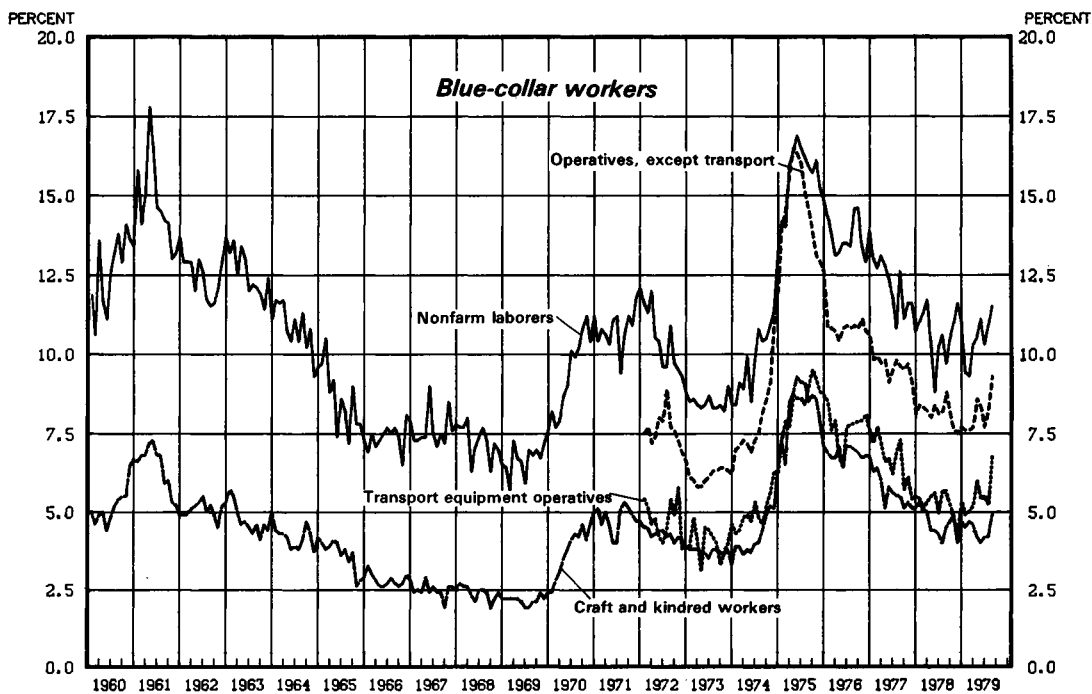
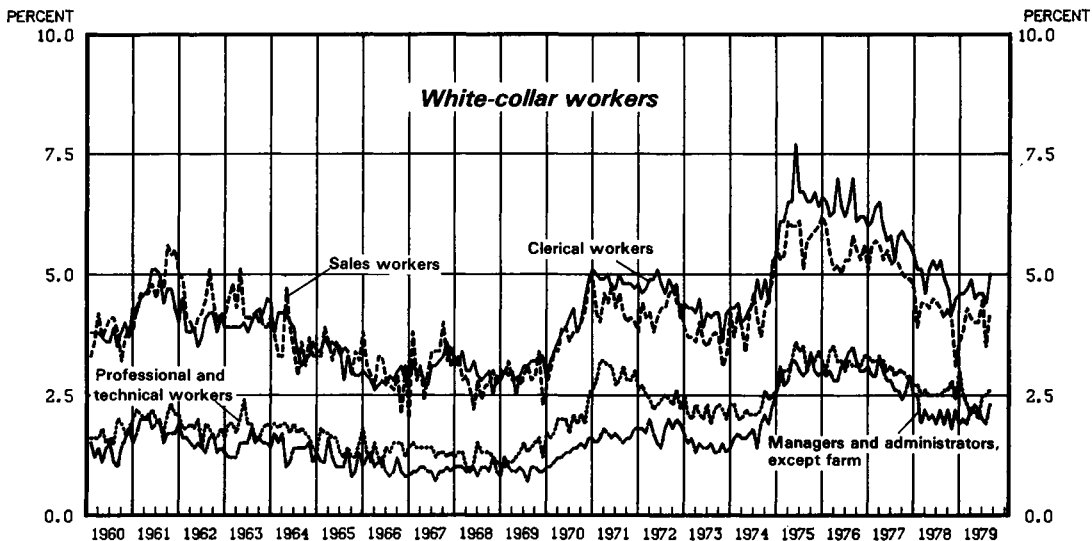


**Ratio of black to white unemployment rate**



SOURCE: Table A-36.

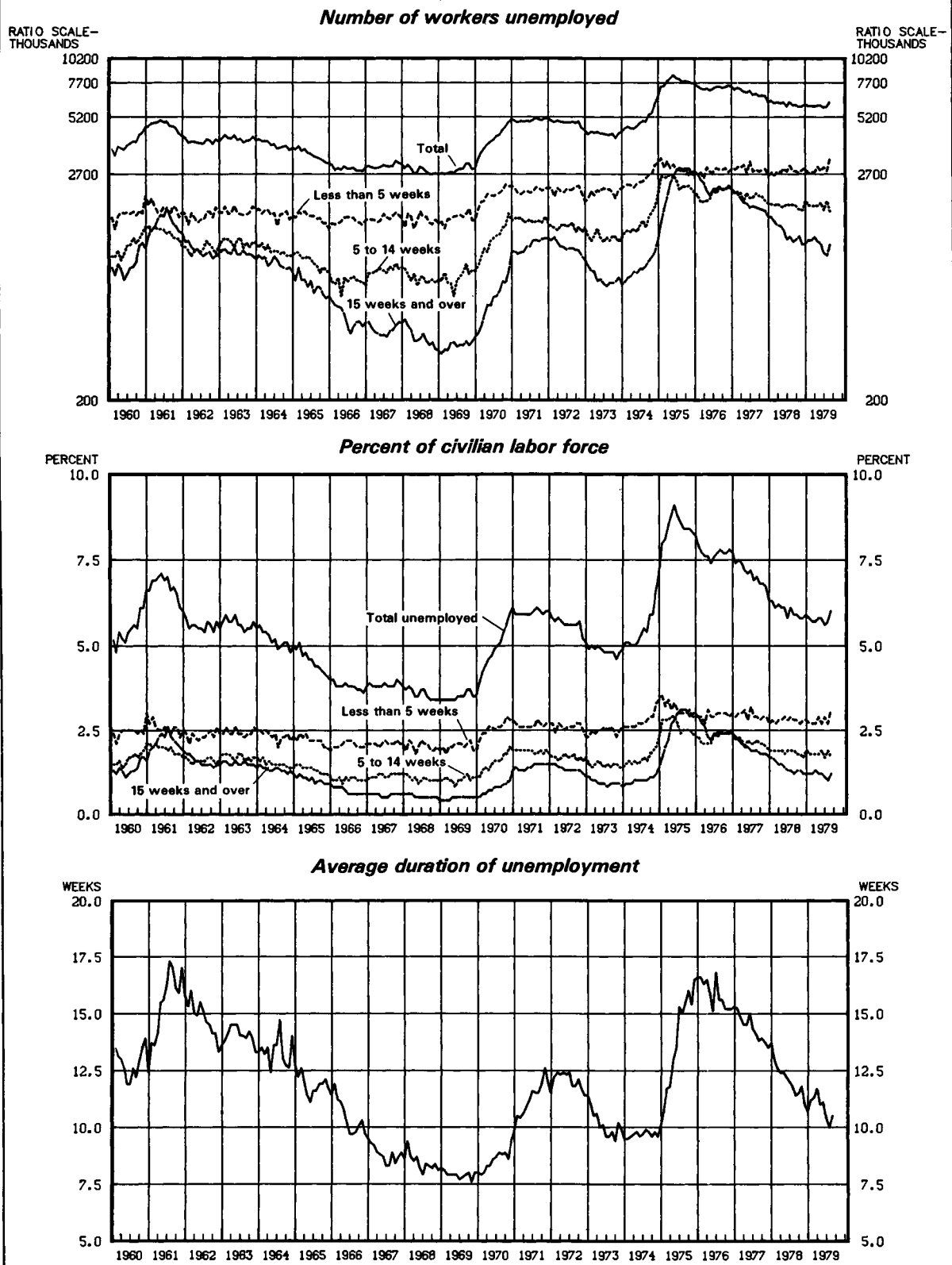
**Chart 12. Unemployment rates by major occupational groups**  
(Seasonally adjusted)



SOURCE: Table A-36.

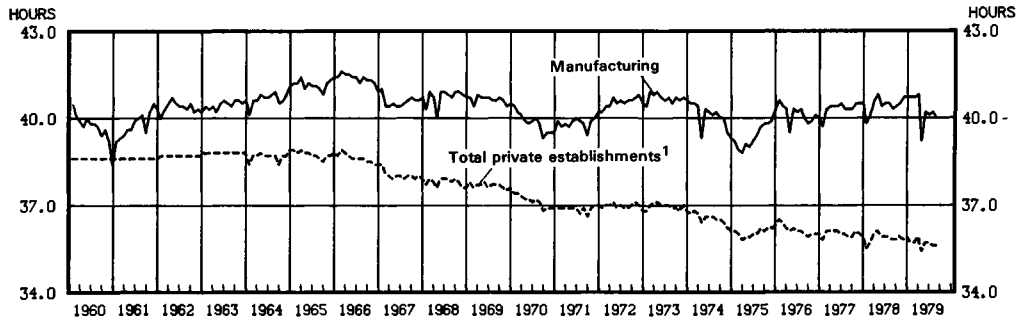
### Chart 13. Duration of unemployment

(Seasonally adjusted)

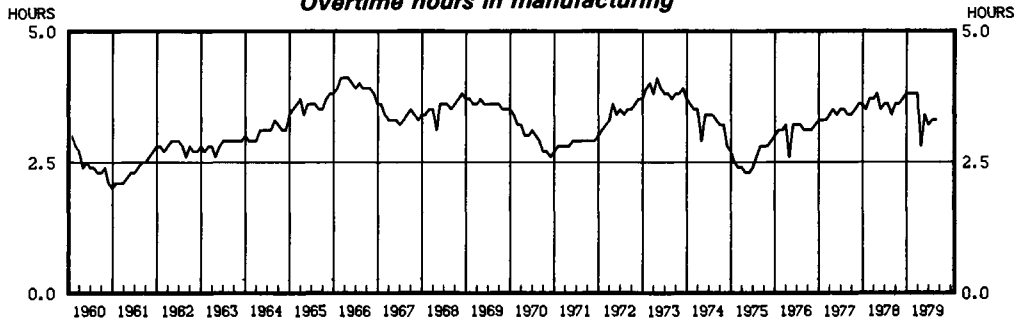


SOURCE: Table A-37.

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



**Overtime hours in manufacturing**

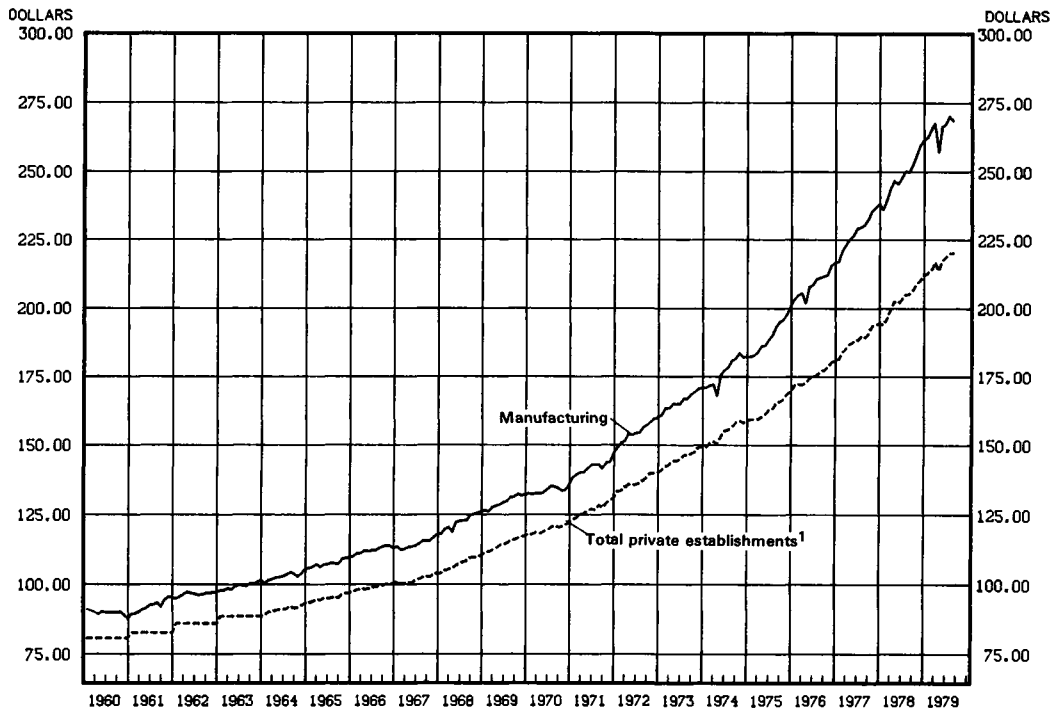


<sup>1</sup>Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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

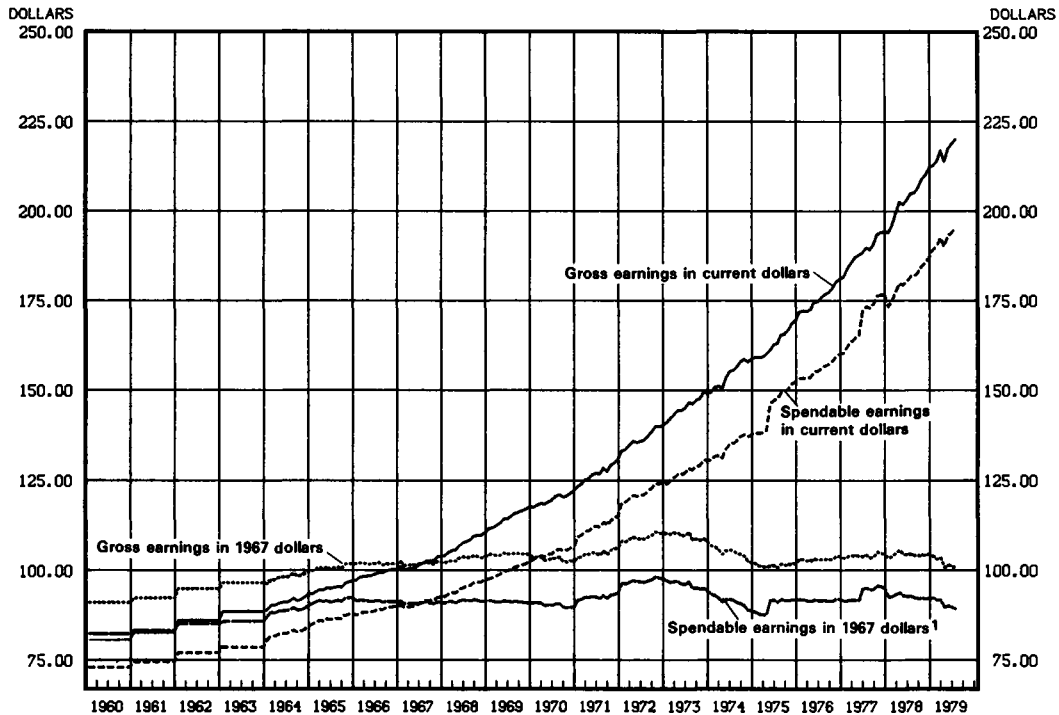


<sup>1</sup>Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

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

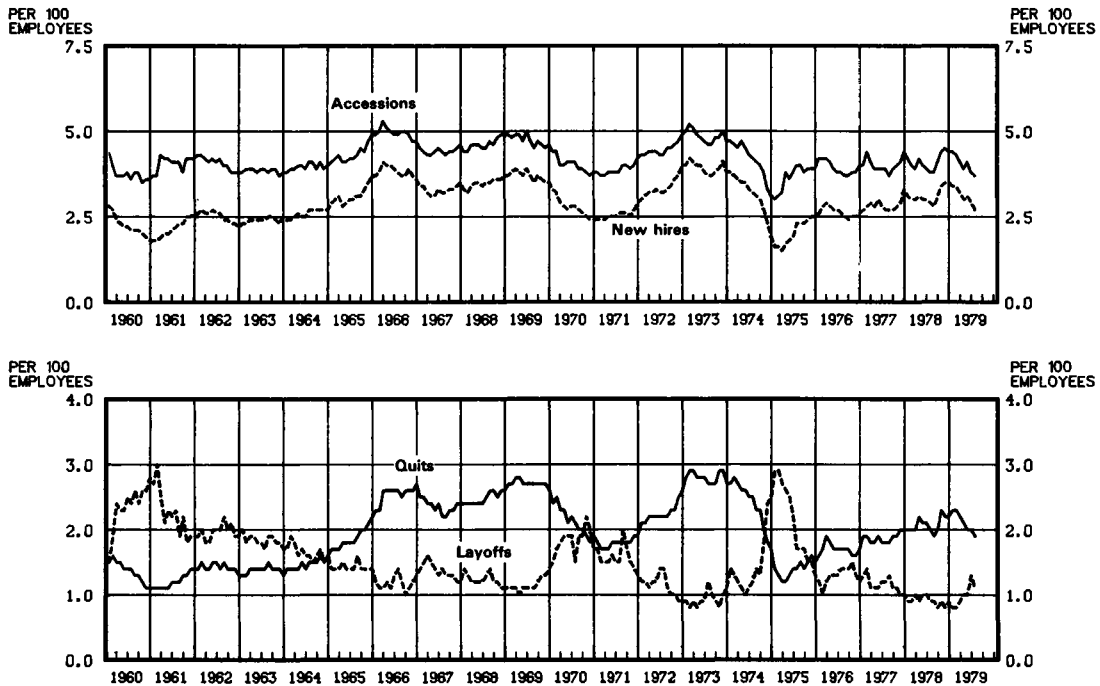


<sup>1</sup> Married worker with three dependents.

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

SOURCE: Table C-9.

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



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

**HOUSEHOLD DATA  
HISTORICAL**

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

[Numbers in thousands]										
Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonegricultural industries	Number	Percent of labor force	
<b>Annual averages</b>										
<b>TOTAL</b>										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,923	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 <sup>1</sup> .....	122,381	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.....	137,341	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.....	156,348	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 <sup>1</sup> .....	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1978</b>										
August.....	161,348	102,785	63.7	100,663	94,723	3,351	91,372	5,940	5.9	58,563
September..	161,570	103,097	63.8	100,974	95,010	3,406	91,604	5,964	5.9	58,473
October.....	161,329	103,199	63.8	101,077	95,241	3,374	91,867	5,836	5.8	58,630
November....	162,033	103,745	64.0	101,628	95,751	3,275	92,476	5,877	5.8	58,288
December....	162,250	103,975	64.1	101,867	95,855	3,387	92,468	6,012	5.9	58,275
<b>1979</b>										
January.....	162,448	104,277	64.2	102,183	96,300	3,232	93,068	5,883	5.8	58,170
February....	162,633	104,621	64.3	102,527	96,647	3,311	93,335	5,881	5.7	58,012
March.....	162,339	104,804	64.3	102,714	96,842	3,343	93,499	5,871	5.7	58,105
April.....	163,008	104,193	63.9	102,111	96,174	3,186	92,987	5,937	5.8	58,815
May.....	163,260	104,325	63.9	102,247	96,318	3,184	93,134	5,929	5.8	58,935
June.....	163,469	104,604	64.0	102,528	96,754	3,260	93,494	5,774	5.6	58,865
July.....	163,685	105,141	64.2	103,059	97,210	3,262	93,949	5,848	5.7	58,545
August.....	163,391	105,139	64.2	103,049	96,900	3,322	93,578	6,149	6.0	58,752

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

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

**HOUSEHOLD DATA  
HISTORICAL**

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

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>MALES</b>										
<b>Annual averages</b>										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 <sup>1</sup> .....	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 <sup>1</sup> .....	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 <sup>1</sup> .....	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1978</b>										
August.....	77,301	60,510	78.3	58,517	55,580	2,695	52,885	2,937	5.0	16,792
September..	77,407	60,552	78.2	58,559	55,594	2,739	52,855	2,965	5.1	16,855
October.....	77,546	60,717	78.3	58,725	55,754	2,707	53,047	2,971	5.1	16,829
November....	77,543	61,006	78.6	59,019	56,096	2,614	53,482	2,923	5.0	16,636
December....	77,746	61,095	78.6	59,116	56,072	2,702	53,370	3,044	5.1	16,651
<b>1979</b>										
January.....	77,339	61,438	78.9	59,475	56,449	2,596	53,854	3,026	5.1	16,401
February....	77,326	61,501	78.9	59,538	56,549	2,649	53,900	2,989	5.0	16,425
March.....	78,058	61,515	78.8	59,560	56,559	2,656	53,903	3,001	5.0	16,543
April.....	78,135	61,215	78.4	59,268	56,267	2,559	53,708	3,001	5.1	16,890
May.....	78,225	61,206	78.2	59,262	56,352	2,583	53,769	2,910	4.9	17,019
June.....	78,323	61,387	78.4	59,446	56,638	2,609	54,029	2,808	4.7	16,936
July.....	78,427	61,535	78.5	59,592	56,595	2,609	53,986	2,997	5.0	16,892
August.....	78,525	61,342	78.1	59,396	56,316	2,658	53,658	3,081	5.2	17,183
<b>FEMALES</b>										
<b>Annual averages</b>										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 <sup>1</sup> .....	75,311	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
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1978</b>										
August.....	84,047	42,276	50.3	42,146	39,143	656	38,487	3,003	7.1	41,772
September..	84,162	42,545	50.6	42,415	39,416	667	38,749	2,999	7.1	41,618
October.....	84,283	42,482	50.4	42,352	39,487	667	38,820	2,865	6.8	41,801
November....	84,390	42,738	50.6	42,609	39,655	661	38,994	2,954	6.9	41,652
December....	84,504	42,880	50.7	42,751	39,783	685	39,098	2,968	6.9	41,624
<b>1979</b>										
January.....	84,608	42,840	50.6	42,708	39,851	636	39,214	2,857	6.7	41,769
February....	84,707	43,121	50.9	42,989	40,098	663	39,435	2,891	6.7	41,587
March.....	84,351	43,289	51.0	43,153	40,283	687	39,596	2,870	6.7	41,563
April.....	84,903	42,978	50.6	42,843	39,907	627	39,279	2,936	6.9	41,925
May.....	85,035	43,121	50.7	42,986	39,966	601	39,365	3,019	7.0	41,914
June.....	85,145	43,217	50.8	43,082	40,116	651	39,465	2,966	6.9	41,929
July.....	85,259	43,606	51.1	43,467	40,615	653	39,962	2,852	6.6	41,653
August.....	85,366	43,798	51.3	43,653	40,585	665	39,920	3,068	7.0	41,569

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

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



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

(Numbers in thousands)

Sex, age, and race	August 1979										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>MALES</b>											
16 years and over .....	62,722	79.9	60,776	57,891	2,885	4.7	15,803	380	677	1,742	13,004
16 to 21 years .....	9,842	77.4	9,205	8,118	1,087	11.8	2,873	34	390	39	2,410
16 to 19 years .....	6,020	71.4	5,756	4,996	760	13.2	2,406	29	288	17	2,073
16 to 17 years .....	2,497	60.0	2,479	2,136	343	13.8	1,663	23	148	11	1,482
18 to 19 years .....	3,524	82.6	3,277	2,859	417	12.7	743	6	140	7	591
20 to 64 years .....	54,775	90.6	53,094	51,028	2,067	3.9	5,685	150	389	1,245	3,901
20 to 24 years .....	9,373	91.2	8,623	7,955	668	7.8	900	10	220	54	616
25 to 54 years .....	39,231	94.7	37,301	36,091	1,208	3.2	2,159	84	163	641	1,271
25 to 29 years .....	8,663	95.4	8,300	7,921	379	4.6	416	22	99	57	238
30 to 34 years .....	7,817	96.0	7,567	7,279	287	3.8	329	10	34	90	195
35 to 39 years .....	6,363	96.4	6,172	6,002	170	2.8	236	5	20	67	144
40 to 44 years .....	5,297	95.4	5,209	5,082	127	2.4	258	11	6	107	133
45 to 49 years .....	5,060	93.6	5,029	4,912	117	2.3	346	17	5	113	210
50 to 54 years .....	5,031	89.7	5,024	4,895	129	2.6	575	17	--	207	350
55 to 64 years .....	7,172	73.2	7,171	6,981	190	2.6	2,626	57	6	550	2,014
55 to 59 years .....	4,438	82.7	4,437	4,318	120	2.7	927	23	4	274	625
60 to 64 years .....	2,734	61.7	2,734	2,664	70	2.6	1,700	33	2	275	1,389
65 years and over .....	1,926	20.0	1,926	1,867	58	3.0	7,712	201	1	480	7,031
65 to 69 years .....	1,107	29.1	1,107	1,066	41	3.7	2,693	78	1	169	2,444
70 years and over .....	819	14.0	819	801	17	2.1	5,020	123	--	310	4,587
<b>White</b>											
16 years and over .....	55,643	80.5	54,115	51,844	2,271	4.2	13,487	316	517	1,397	11,257
16 to 21 years .....	8,581	79.5	8,097	7,245	851	10.5	2,216	28	296	32	1,860
16 to 19 years .....	5,258	73.7	5,057	4,454	603	11.9	1,874	25	216	17	1,616
16 to 17 years .....	2,188	62.5	2,174	1,898	276	12.7	1,314	20	107	11	1,176
18 to 19 years .....	3,070	84.6	2,883	2,555	328	11.4	560	5	109	6	440
20 to 64 years .....	48,627	91.2	47,301	45,680	1,621	3.4	4,693	121	301	996	3,277
20 to 24 years .....	8,162	92.5	7,593	7,087	506	6.7	665	6	174	33	452
25 to 54 years .....	33,934	95.2	33,178	32,231	946	2.9	1,704	71	123	488	1,022
25 to 29 years .....	14,549	96.3	14,061	13,546	515	3.7	564	28	106	113	316
30 to 34 years .....	10,367	96.4	10,133	9,900	233	2.3	389	15	17	133	224
35 to 44 years .....	9,017	92.3	8,984	8,785	198	2.2	751	29	--	241	481
55 to 64 years .....	6,531	73.8	6,530	6,361	169	2.6	2,325	42	5	175	1,803
55 to 59 years .....	4,028	83.3	4,027	3,924	104	2.6	806	21	3	240	542
60 to 64 years .....	2,503	62.2	2,503	2,438	66	2.6	1,518	22	1	235	1,260
65 years and over .....	1,757	20.2	1,757	1,710	47	2.7	6,920	170	--	384	6,365
<b>Black and other</b>											
16 years and over .....	7,079	75.3	5,651	6,047	614	9.2	2,317	64	160	345	1,747
16 to 21 years .....	1,261	65.8	1,109	873	236	21.3	656	6	94	7	550
16 to 19 years .....	762	58.9	699	542	157	22.5	532	4	72	--	457
16 to 17 years .....	308	46.8	305	238	67	22.1	350	3	41	--	306
18 to 19 years .....	453	71.3	394	304	90	22.8	183	--	31	--	151
20 to 64 years .....	6,148	86.1	5,793	5,348	446	7.7	991	30	87	249	624
20 to 24 years .....	1,211	83.8	1,030	868	163	15.8	235	4	46	21	163
25 to 54 years .....	4,297	90.4	4,123	3,860	262	6.4	456	12	41	153	249
25 to 29 years .....	1,931	91.4	1,806	1,655	151	8.4	181	4	26	33	117
30 to 34 years .....	1,293	92.5	1,248	1,184	64	5.1	105	2	9	41	53
35 to 44 years .....	1,073	86.4	1,069	1,022	47	4.4	169	6	5	79	79
55 to 64 years .....	641	68.0	640	620	20	3.2	302	14	1	75	212
55 to 59 years .....	410	77.3	410	394	16	3.9	120	3	--	35	83
60 to 64 years .....	230	56.0	230	226	4	1.9	181	11	1	40	129
65 years and over .....	169	17.5	169	157	11	6.7	793	31	1	96	666

# HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	August 1979										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
<b>FEMALES</b>											
16 years and over .....	43,732	51.2	43,587	40,335	3,252	7.5	41,634	32,281	735	1,085	7,533
16 to 21 years .....	7,983	64.1	7,927	6,787	1,140	14.4	4,470	1,628	450	23	2,369
16 to 19 years .....	4,964	60.3	4,940	4,162	779	15.8	3,275	875	335	12	2,053
16 to 17 years .....	2,089	51.9	2,087	1,728	359	17.2	1,939	333	158	7	1,440
18 to 19 years .....	2,875	68.3	2,853	2,434	420	14.7	1,336	542	177	5	612
20 to 64 years .....	37,671	59.5	37,550	35,119	2,432	6.5	25,689	21,826	390	462	3,012
20 to 24 years .....	7,351	71.7	7,279	6,513	766	10.5	2,906	2,093	194	31	588
25 to 54 years .....	25,857	61.3	25,809	24,291	1,518	5.9	16,300	14,293	196	237	1,573
25 to 29 years .....	6,049	65.4	6,015	5,557	458	7.6	3,195	2,799	85	18	293
30 to 34 years .....	5,100	61.0	5,090	4,747	343	6.7	3,255	2,864	55	35	302
35 to 39 years .....	4,279	61.7	4,276	4,034	242	5.7	2,660	2,354	27	13	266
40 to 44 years .....	3,682	62.5	3,681	3,484	197	5.3	2,204	1,931	20	42	211
45 to 49 years .....	3,359	58.9	3,358	3,236	122	3.6	2,345	2,056	3	47	239
50 to 54 years .....	3,389	56.2	3,388	3,232	156	4.6	2,640	2,288	6	84	261
55 to 64 years .....	4,463	40.8	4,463	4,315	148	3.3	6,484	5,439	--	194	851
55 to 59 years .....	2,822	47.9	2,822	2,724	98	3.5	3,069	2,608	2	92	367
60 to 64 years .....	1,641	32.5	1,641	1,591	50	3.0	3,414	2,831	--	102	483
65 years and over .....	1,097	8.0	1,097	1,055	41	3.8	12,670	9,580	10	612	2,468
65 to 69 years .....	717	15.1	717	684	32	4.5	4,030	3,184	8	110	728
70 years and over .....	380	4.2	380	371	9	2.4	8,640	6,397	2	502	1,740
<b>White</b>											
16 years and over .....	37,738	50.8	37,628	35,151	2,476	6.6	36,593	28,854	545	826	6,368
16 to 21 years .....	7,014	66.9	6,971	6,119	852	12.2	3,470	1,261	336	17	1,856
16 to 19 years .....	4,397	63.5	4,379	3,782	597	13.6	2,526	679	241	8	1,598
16 to 17 years .....	1,868	55.4	1,867	1,581	285	15.3	1,505	248	111	5	1,140
18 to 19 years .....	2,529	71.2	2,512	2,200	312	12.4	1,022	431	130	3	458
20 to 64 years .....	32,372	58.9	32,280	30,433	1,847	5.7	22,562	19,365	298	336	2,564
20 to 24 years .....	6,297	72.6	6,242	5,715	527	8.4	2,374	1,719	161	21	473
25 to 54 years .....	22,093	60.6	22,056	20,853	1,203	5.5	14,339	12,683	138	165	1,353
25 to 29 years .....	9,391	62.3	9,358	8,747	611	6.5	5,675	5,065	98	36	477
30 to 34 years .....	6,824	61.5	6,821	6,474	347	5.1	4,265	3,768	32	34	431
35 to 44 years .....	5,878	57.2	5,877	5,632	245	4.2	4,398	3,851	9	95	444
55 to 64 years .....	3,982	40.5	3,982	3,865	117	2.9	5,849	4,963	--	150	738
55 to 59 years .....	2,510	47.6	2,510	2,431	79	3.2	2,762	2,356	--	74	333
60 to 64 years .....	1,472	32.3	1,472	1,434	38	2.6	3,087	2,607	--	76	405
65 years and over .....	969	7.8	969	937	32	3.3	11,505	8,810	7	482	2,206
<b>Black and other</b>											
16 years and over .....	5,994	54.3	5,960	5,184	776	13.0	5,041	3,427	190	260	1,165
16 to 21 years .....	969	49.2	956	667	289	30.2	999	367	114	6	513
16 to 19 years .....	568	43.1	562	380	182	32.4	749	196	94	4	455
16 to 17 years .....	221	33.7	221	147	74	33.6	435	85	47	2	300
18 to 19 years .....	346	52.4	341	233	108	31.6	314	111	47	2	155
20 to 64 years .....	5,299	62.9	5,271	4,686	585	11.1	3,127	2,460	94	125	448
20 to 24 years .....	1,054	66.5	1,037	798	239	23.1	532	375	33	9	115
25 to 54 years .....	3,764	65.7	3,753	3,438	315	8.4	1,961	1,609	58	73	220
25 to 29 years .....	1,758	69.4	1,748	1,558	190	10.9	775	599	42	16	118
30 to 34 years .....	1,136	65.5	1,136	1,044	92	8.1	600	518	15	20	46
35 to 44 years .....	870	59.7	870	836	33	3.8	586	493	1	36	56
55 to 64 years .....	481	43.1	481	450	31	6.4	634	476	2	44	112
55 to 59 years .....	312	50.4	312	293	19	6.1	307	253	2	18	34
60 to 64 years .....	169	34.0	169	157	12	7.0	327	223	--	26	78
65 years and over .....	127	9.8	127	118	9	7.3	1,165	771	2	130	262

## 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	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
<b>MALES</b>								
16 years and over	61,934	62,722	80.1	79.9	59,942	60,776	79.6	79.4
16 to 19 years	6,332	6,020	74.7	71.4	6,039	5,756	73.8	70.5
16 to 17 years	2,738	2,497	64.7	60.0	2,716	2,479	64.5	59.8
18 to 19 years	3,593	3,524	84.7	82.6	3,323	3,277	83.7	81.5
20 to 24 years	9,268	9,373	91.4	91.2	8,511	8,623	90.7	90.6
25 to 54 years	37,356	38,231	94.3	94.7	36,414	37,301	94.2	94.5
25 to 34 years	15,979	16,480	95.8	95.7	15,361	15,867	95.6	95.5
35 to 44 years	11,288	11,660	95.5	95.9	11,003	11,381	95.4	95.8
45 to 54 years	10,089	10,090	90.8	91.6	10,050	10,053	90.7	91.5
55 to 64 years	7,069	7,172	73.2	73.2	7,068	7,171	73.2	73.2
55 to 59 years	4,407	4,438	83.1	82.7	4,406	4,437	83.1	82.7
60 to 64 years	2,662	2,734	61.1	61.7	2,662	2,734	61.1	61.7
65 years and over	1,910	1,926	20.3	20.0	1,910	1,926	20.3	20.0
<b>White</b>								
16 years and over	55,147	55,643	80.9	80.5	53,546	54,115	80.4	80.0
16 to 19 years	5,585	5,258	77.7	73.7	5,354	5,057	76.9	73.0
16 to 17 years	2,424	2,188	67.8	62.5	2,406	2,174	67.6	62.3
18 to 19 years	3,161	3,070	87.4	84.6	2,949	2,883	86.7	83.7
20 to 24 years	8,105	8,162	92.7	92.5	7,514	7,593	92.2	91.9
25 to 54 years	33,320	33,934	95.1	95.2	32,542	33,178	95.0	95.1
25 to 34 years	14,156	14,549	96.4	96.3	13,654	14,061	96.3	96.1
35 to 44 years	10,076	10,367	96.4	96.4	9,835	10,133	96.3	96.3
45 to 54 years	9,087	9,017	91.9	92.3	9,052	8,984	91.9	92.3
55 to 64 years	6,424	6,531	73.5	73.8	6,423	6,530	73.5	73.7
55 to 59 years	3,999	4,028	83.6	83.3	3,998	4,027	83.6	83.3
60 to 64 years	2,425	2,503	61.2	62.2	2,425	2,503	61.2	62.2
65 years and over	1,713	1,757	20.2	20.2	1,713	1,757	20.2	20.2
<b>Black and other</b>								
16 years and over	6,787	7,079	74.4	75.3	6,395	6,661	73.2	74.2
16 to 19 years	747	762	58.1	58.9	685	699	56.0	56.8
16 to 17 years	314	308	47.8	46.8	310	305	47.5	45.6
18 to 19 years	433	453	69.0	71.3	375	394	65.8	68.3
20 to 24 years	1,163	1,211	83.0	83.8	997	1,030	80.7	81.5
25 to 54 years	4,036	4,297	87.9	90.4	3,872	4,123	87.5	90.1
25 to 34 years	1,822	1,931	90.8	91.4	1,707	1,806	90.3	90.9
35 to 44 years	1,212	1,293	89.2	92.5	1,167	1,248	88.8	92.2
45 to 54 years	1,002	1,073	81.8	86.4	998	1,069	81.7	86.3
55 to 64 years	645	641	70.3	68.0	645	640	70.3	68.0
55 to 59 years	408	410	78.2	77.3	408	410	78.2	77.3
60 to 64 years	237	230	59.9	56.0	237	230	59.9	56.0
65 years and over	197	169	21.1	17.5	197	169	21.1	17.5

# HOUSEHOLD DATA

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
<b>FEMALES</b>								
16 years and over	42,235	43,732	50.3	51.2	42,106	43,587	50.2	51.1
16 to 19 years	5,208	4,964	62.8	60.3	5,187	4,940	62.7	60.1
16 to 17 years	2,285	2,089	55.8	51.9	2,284	2,087	55.7	51.8
18 to 19 years	2,922	2,875	69.7	68.3	2,902	2,853	69.5	68.1
20 to 24 years	7,183	7,351	70.9	71.7	7,116	7,279	70.7	71.5
25 to 54 years	24,439	25,857	59.0	61.3	24,398	25,809	59.0	61.3
25 to 34 years	10,345	11,149	60.6	63.3	10,308	11,106	60.5	63.3
35 to 44 years	7,403	7,961	59.4	62.1	7,399	7,957	59.4	62.1
45 to 54 years	6,691	6,748	56.4	57.5	6,690	6,747	56.4	57.5
55 to 64 years	4,360	4,463	40.4	40.8	4,360	4,463	40.4	40.8
55 to 59 years	2,783	2,822	47.7	47.9	2,783	2,822	47.7	47.9
60 to 64 years	1,577	1,641	31.7	32.5	1,577	1,641	31.7	32.5
65 years and over	1,046	1,097	7.8	8.0	1,046	1,097	7.8	8.0
<b>White</b>								
16 years and over	36,329	37,738	49.5	50.8	36,226	37,628	49.5	50.7
16 to 19 years	4,571	4,397	65.4	63.5	4,554	4,379	65.4	63.4
16 to 17 years	2,020	1,868	58.7	55.4	2,019	1,867	58.7	55.4
18 to 19 years	2,551	2,529	72.0	71.2	2,535	2,512	71.9	71.1
20 to 24 years	6,191	6,297	72.0	72.6	6,137	6,242	71.9	72.4
25 to 54 years	20,788	22,093	58.0	60.6	20,755	22,056	57.9	60.6
25 to 34 years	8,659	9,391	59.1	62.3	8,631	9,358	59.0	62.2
35 to 44 years	6,293	6,824	58.4	61.5	6,290	6,821	58.4	61.5
45 to 54 years	5,835	5,878	55.9	57.2	5,835	5,877	55.9	57.2
55 to 64 years	3,863	3,982	39.8	40.5	3,863	3,982	39.8	40.5
55 to 59 years	2,466	2,510	47.2	47.6	2,466	2,510	47.2	47.6
60 to 64 years	1,397	1,472	31.1	32.3	1,397	1,472	31.1	32.3
65 years and over	917	969	7.5	7.8	917	969	7.5	7.8
<b>Black and other</b>								
16 years and over	5,906	5,994	55.2	54.3	5,879	5,960	55.1	54.2
16 to 19 years	636	568	48.6	43.1	633	562	48.5	42.9
16 to 17 years	265	221	40.4	33.7	265	221	40.4	33.7
18 to 19 years	371	346	56.9	52.4	368	341	56.6	52.0
20 to 24 years	993	1,054	64.5	66.5	978	1,037	64.2	66.1
25 to 54 years	3,652	3,764	66.1	65.7	3,643	3,753	66.1	65.7
25 to 34 years	1,686	1,758	70.0	69.4	1,678	1,748	69.9	69.3
35 to 44 years	1,110	1,136	66.0	65.5	1,109	1,136	66.0	65.4
45 to 54 years	855	870	59.7	59.7	855	870	59.7	59.7
55 to 64 years	497	481	45.9	43.1	497	481	45.9	43.1
55 to 59 years	317	312	52.5	50.4	317	312	52.5	50.4
60 to 64 years	180	169	37.6	34.0	180	169	37.6	34.0
65 years and over	129	127	10.3	9.8	129	127	10.3	9.8

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

[Numbers in thousands]

Sex and age	August 1979						Not in labor force	
	Civilian labor force					Percent of labor force		
	Total	Employed			Unemployed			
		Total	Agri-culture	Nonagri-cultural industries	Number			
<b>TOTAL</b>								
16 years and over .....	10,672	9,378	299	9,079	1,293	12.1	6,385	
16 to 19 years .....	1,079	755	39	716	323	30.0	1,135	
16 to 17 years .....	455	318	26	292	137	30.1	694	
18 to 19 years .....	624	437	14	424	187	29.9	442	
20 to 24 years .....	1,774	1,399	39	1,360	374	21.1	660	
25 to 54 years .....	6,581	5,053	163	5,890	527	8.0	2,040	
25 to 34 years .....	2,938	2,625	63	2,562	312	10.6	781	
35 to 44 years .....	2,031	1,893	49	1,844	139	6.8	587	
45 to 54 years .....	1,612	1,535	51	1,484	77	4.8	673	
55 to 64 years .....	966	918	30	888	48	5.0	844	
55 to 59 years .....	620	588	11	577	32	5.1	387	
60 to 64 years .....	346	330	19	311	16	4.7	457	
65 years and over .....	272	252	28	224	20	7.3	1,704	
<b>Males</b>								
16 years and over .....	5,630	5,053	250	4,803	576	10.2	2,010	
16 to 19 years .....	598	449	32	416	149	24.7	464	
16 to 17 years .....	263	197	23	173	66	25.1	307	
18 to 19 years .....	335	252	10	243	83	24.8	159	
20 to 24 years .....	882	729	27	701	153	17.3	198	
25 to 54 years .....	3,454	3,210	139	3,071	244	7.1	397	
25 to 34 years .....	1,501	1,358	58	1,300	143	9.5	141	
35 to 44 years .....	1,055	999	40	959	57	5.4	97	
45 to 54 years .....	898	853	42	811	44	4.9	160	
55 to 64 years .....	544	524	26	498	20	3.7	280	
55 to 59 years .....	351	336	8	328	15	4.3	113	
60 to 64 years .....	193	188	18	170	4	2.1	167	
65 years and over .....	152	141	25	116	11	7.2	668	
<b>Females</b>								
16 years and over .....	5,042	4,325	49	4,276	717	14.2	4,375	
16 to 19 years .....	481	306	7	300	175	36.3	671	
16 to 17 years .....	192	121	3	119	71	36.9	387	
18 to 19 years .....	289	185	4	181	104	36.0	283	
20 to 24 years .....	892	670	12	659	221	24.8	462	
25 to 54 years .....	3,127	2,843	24	2,819	283	9.1	1,643	
25 to 34 years .....	1,437	1,267	5	1,262	169	11.8	640	
35 to 44 years .....	976	894	9	885	82	8.4	490	
45 to 54 years .....	714	682	9	673	33	4.6	513	
55 to 64 years .....	422	394	4	390	28	6.7	564	
55 to 59 years .....	269	252	3	249	17	6.2	274	
60 to 64 years .....	153	142	1	141	12	7.6	290	
65 years and over .....	120	111	3	108	9	7.5	1,036	

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

# HOUSEHOLD DATA

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 18-19 years	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
<b>TOTAL</b>								
Total noninstitutional population	161,348	163,891	68,827	70,099	75,753	77,127	16,768	16,665
Total labor force	104,169	106,454	55,602	56,701	37,028	38,768	11,539	10,984
Percent of population	64.6	65.0	80.8	80.9	48.9	50.3	68.8	65.9
Civilian labor force	102,047	104,363	53,903	55,020	36,919	38,647	11,226	10,696
Employed	96,116	98,226	51,887	52,895	34,546	36,174	9,683	9,157
Agriculture	3,856	3,795	2,525	2,554	694	712	637	529
Nonagricultural industries	92,261	94,431	49,362	50,341	33,852	35,462	9,046	8,628
Unemployed	5,931	6,137	2,015	2,125	2,373	2,473	1,542	1,539
Percent of labor force	5.8	5.9	3.7	3.9	6.4	6.4	13.7	14.4
Not in labor force	57,179	57,438	13,225	13,397	38,726	38,359	5,229	5,681
<b>White</b>								
Total noninstitutional population	141,520	143,461	60,986	61,997	66,359	67,409	14,175	14,055
Total labor force	91,476	93,381	49,562	50,384	31,758	33,341	10,156	9,655
Percent of population	64.6	65.1	81.3	81.3	47.9	49.5	71.7	68.7
Civilian labor force	89,773	91,742	48,192	49,058	31,672	33,249	9,908	9,436
Employed	85,256	86,995	46,638	47,390	29,876	31,370	8,741	8,236
Agriculture	3,520	3,435	2,303	2,296	641	656	576	484
Nonagricultural industries	81,735	83,560	44,335	45,094	29,235	30,714	8,165	7,752
Unemployed	4,517	4,747	1,554	1,668	1,796	1,879	1,167	1,200
Percent of labor force	5.0	5.2	3.2	3.4	5.7	5.7	11.8	12.7
Not in labor force	50,044	50,080	11,424	11,613	34,601	34,067	4,018	4,400
<b>Black and other</b>								
Total noninstitutional population	19,828	20,431	7,841	8,101	9,394	9,719	2,594	2,611
Total labor force	12,694	13,073	6,041	6,317	5,270	5,426	1,383	1,329
Percent of population	64.0	64.0	77.0	78.0	56.1	55.8	53.3	50.9
Civilian labor force	12,275	12,621	5,710	5,962	5,247	5,398	1,317	1,261
Employed	10,860	11,231	5,249	5,505	4,670	4,804	942	922
Agriculture	335	360	222	259	52	55	61	45
Nonagricultural industries	10,525	10,872	5,027	5,247	4,617	4,748	881	877
Unemployed	1,414	1,390	462	457	577	594	375	339
Percent of labor force	11.5	11.0	8.1	7.7	11.0	11.0	28.5	26.9
Not in labor force	7,135	7,358	1,800	1,784	4,124	4,292	1,210	1,281

# HOUSEHOLD DATA

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

(Numbers in thousands)

Employment status	August 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
<b>TOTAL</b>									
Total noninstitutional population .....	25,167	12,714	12,453	21,281	10,797	10,484	3,886	1,917	1,969
Total labor force .....	17,825	9,842	7,983	15,594	8,581	7,014	2,230	1,261	969
Percent of population .....	70.8	77.4	64.1	73.3	79.5	66.9	57.4	65.8	49.2
Civilian labor force .....	17,132	9,205	7,927	15,067	8,097	6,971	2,065	1,109	956
Employed .....	14,905	8,118	6,787	13,364	7,245	6,119	1,540	873	667
Agriculture .....	760	597	163	692	543	150	67	54	13
Nonagricultural industries .....	14,145	7,521	6,624	12,672	6,702	5,970	1,473	819	654
Unemployed .....	2,227	1,087	1,140	1,703	851	852	525	236	289
Looking for full-time work .....	1,554	789	765	1,151	607	544	403	182	221
Looking for part-time work .....	673	298	375	552	244	308	121	54	67
Percent of labor force .....	13.0	11.8	14.4	11.3	10.5	12.2	25.4	21.3	30.2
Not in labor force .....	7,342	2,873	4,470	5,687	2,216	3,470	1,656	656	999
Major activity: going to school									
Civilian labor force .....	184	81	103	164	75	89	20	6	14
Employed .....	134	59	75	123	54	69	11	5	7
Agriculture .....	6	6	--	6	6	--	--	--	--
Nonagricultural industries .....	128	53	76	117	48	69	11	5	7
Unemployed .....	50	22	28	41	21	20	9	2	7
Looking for full-time work .....	14	7	7	10	8	2	4	--	5
Looking for part-time work .....	36	15	20	31	13	18	5	2	2
Percent of labor force .....	27.2	27.4	27.1	25.1	27.6	22.9	(1)	(1)	(1)
Not in labor force .....	840	390	450	632	296	336	208	94	114
Major activity: other									
Civilian labor force .....	16,948	9,124	7,824	14,903	8,022	6,882	2,045	1,102	942
Employed .....	14,771	8,059	6,712	13,242	7,191	6,051	1,529	868	661
Agriculture .....	754	591	163	687	537	150	67	54	13
Nonagricultural industries .....	14,016	7,468	6,548	12,555	6,654	5,901	1,462	814	648
Unemployed .....	2,177	1,065	1,112	1,662	831	831	516	234	281
Looking for full-time work .....	1,540	782	758	1,140	599	541	399	183	216
Looking for part-time work .....	638	283	355	522	232	290	116	51	65
Percent of labor force .....	12.8	11.7	14.2	11.2	10.4	12.1	25.2	21.3	29.8
Not in labor force .....	6,502	2,483	4,019	5,054	1,921	3,134	1,448	563	885

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

**HOUSEHOLD DATA**

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

[Numbers in thousands]

Race, sex, and age	August 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.....	91,497	82,548	4,060	4,888	5.3	12,867	11,618	1,249	9.7
16 to 21 years.....	13,312	10,198	1,560	1,554	11.7	3,820	3,147	673	17.6
16 to 19 years.....	7,598	5,484	1,155	960	12.6	3,098	2,519	579	18.7
16 to 17 years.....	2,553	1,658	609	287	11.2	2,013	1,598	415	20.6
18 to 19 years.....	5,045	3,826	546	673	13.3	1,085	921	164	15.1
20 years and over.....	83,898	77,065	2,905	3,928	4.7	9,769	9,099	669	6.9
20 to 24 years.....	14,442	12,300	871	1,271	8.8	1,460	1,297	164	11.2
25 years and over.....	69,456	64,765	2,034	2,657	3.8	8,309	7,802	506	6.1
25 to 54 years.....	57,617	53,650	1,620	2,346	4.1	5,493	5,113	380	6.9
55 years and over.....	11,840	11,115	414	311	2.6	2,816	2,689	127	4.5
<b>Males, 16 years and over.....</b>	<b>56,982</b>	<b>52,618</b>	<b>1,902</b>	<b>2,462</b>	<b>4.3</b>	<b>3,794</b>	<b>3,371</b>	<b>422</b>	<b>11.1</b>
16 to 21 years.....	7,579	5,998	793	789	10.4	1,626	1,327	298	18.4
16 to 19 years.....	4,375	3,271	608	497	11.4	1,381	1,117	263	19.1
20 years and over.....	52,607	49,347	1,294	1,966	3.7	2,413	2,254	159	6.6
20 to 24 years.....	8,166	7,144	411	610	7.5	457	399	58	12.7
25 years and over.....	44,441	42,202	884	1,356	3.1	1,956	1,855	101	5.2
25 to 54 years.....	36,554	34,695	681	1,178	3.2	747	716	32	4.3
55 years and over.....	7,888	7,507	203	178	2.3	1,209	1,139	70	5.8
<b>Females, 16 years and over.....</b>	<b>34,514</b>	<b>29,931</b>	<b>2,158</b>	<b>2,426</b>	<b>7.0</b>	<b>9,073</b>	<b>8,246</b>	<b>826</b>	<b>9.1</b>
16 to 21 years.....	5,732	4,200	767	765	13.3	2,195	1,820	375	17.1
16 to 19 years.....	3,223	2,213	547	463	14.4	1,717	1,401	316	18.4
20 years and over.....	31,291	27,718	1,611	1,963	6.3	7,355	6,845	510	6.9
20 to 24 years.....	6,276	5,156	460	660	10.5	1,003	897	105	10.5
25 years and over.....	25,016	22,562	1,151	1,303	5.2	6,352	5,948	405	6.4
25 to 54 years.....	21,063	18,954	940	1,170	5.6	4,746	4,398	348	7.3
55 years and over.....	3,953	3,608	212	133	3.4	1,607	1,550	57	3.5
<b>White</b>									
<b>Males, 16 years and over.....</b>	<b>50,826</b>	<b>47,369</b>	<b>1,521</b>	<b>1,936</b>	<b>3.8</b>	<b>3,289</b>	<b>2,954</b>	<b>335</b>	<b>10.2</b>
16 to 21 years.....	6,709	5,472	630	607	9.0	1,387	1,143	244	17.6
16 to 19 years.....	3,859	3,006	467	387	10.0	1,198	981	217	18.1
20 years and over.....	46,967	44,363	1,055	1,549	3.3	2,091	1,973	118	5.7
20 to 24 years.....	7,230	6,415	351	464	6.4	363	321	42	11.5
25 years and over.....	39,736	37,947	703	1,086	2.7	1,728	1,652	77	4.5
25 to 54 years.....	32,557	31,086	543	928	2.9	620	602	18	2.9
55 years and over.....	7,179	6,861	160	157	2.2	1,107	1,049	59	5.3
<b>Females, 16 years and over.....</b>	<b>29,382</b>	<b>25,841</b>	<b>1,764</b>	<b>1,777</b>	<b>6.0</b>	<b>8,246</b>	<b>7,547</b>	<b>699</b>	<b>8.5</b>
16 to 21 years.....	5,011	3,810	657	544	10.9	1,960	1,652	308	15.7
16 to 19 years.....	2,851	2,029	481	340	11.9	1,528	1,271	257	16.8
20 years and over.....	26,531	23,811	1,283	1,437	5.4	6,718	6,275	443	6.6
20 to 24 years.....	5,322	4,502	380	440	8.3	920	833	87	9.5
25 years and over.....	21,210	19,309	903	997	4.7	5,798	5,442	355	6.1
25 to 54 years.....	17,687	16,044	744	899	5.1	4,369	4,066	303	6.9
55 years and over.....	3,523	3,265	160	98	2.8	1,429	1,377	51	3.6
<b>Black and other</b>									
<b>Males, 16 years and over.....</b>	<b>6,157</b>	<b>5,249</b>	<b>381</b>	<b>526</b>	<b>8.6</b>	<b>505</b>	<b>417</b>	<b>87</b>	<b>17.3</b>
16 to 21 years.....	870	526	162	182	20.9	238	184	54	22.6
16 to 19 years.....	516	265	141	110	21.3	183	136	47	25.7
20 years and over.....	5,640	4,984	240	416	7.4	322	281	40	12.6
20 to 24 years.....	936	729	60	146	15.6	94	78	16	17.4
25 years and over.....	4,704	4,255	180	270	5.7	227	203	23	10.1
25 to 54 years.....	3,996	3,609	138	249	6.2	127	113	13	10.2
55 years and over.....	708	646	42	20	2.8	101	90	11	10.9
<b>Females, 16 years and over.....</b>	<b>5,133</b>	<b>4,090</b>	<b>394</b>	<b>649</b>	<b>12.6</b>	<b>827</b>	<b>700</b>	<b>127</b>	<b>15.4</b>
16 to 21 years.....	721	390	110	221	30.7	235	168	67	28.6
16 to 19 years.....	372	183	66	123	32.9	189	130	59	31.3
20 years and over.....	4,760	3,906	328	526	11.1	637	570	68	10.6
20 to 24 years.....	954	654	80	221	23.1	83	64	18	22.2
25 years and over.....	3,807	3,253	248	306	8.0	554	505	50	9.0
25 to 54 years.....	3,377	2,910	196	271	8.0	376	332	44	11.7
55 years and over.....	430	343	52	35	8.1	178	173	6	3.4

<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	August 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					
<b>Total, 16 years and over</b> .....	104,363	64.5	98,226	6,137	5.9	57,438	32,661	1,413	2,827	20,537
<b>Husbands<sup>1</sup></b> .....	41,228	81.5	40,126	1,102	2.7	9,339	171	98	1,165	7,905
With employed wife .....	20,123	92.1	19,641	482	2.4	1,719	48	53	352	1,266
With unemployed wife .....	1,274	94.3	1,175	99	7.8	77	--	6	20	51
With wife not in labor force .....	18,175	72.1	17,736	439	2.4	7,022	93	31	715	6,184
<b>Wives</b> .....	23,193	47.9	21,842	1,351	5.8	25,198	22,480	136	289	2,292
With employed husband .....	20,817	54.0	19,641	1,175	5.6	17,737	16,124	110	89	1,413
With unemployed husband .....	581	57.0	482	99	17.0	439	402	3	7	26
With husband not in labor force .....	1,796	20.4	1,719	77	4.3	7,023	5,954	23	193	852
<b>Relatives in husband-wife families</b> .....	15,649	68.2	13,941	1,708	10.9	7,284	1,441	731	370	4,743
16-19 years .....	7,680	66.2	6,716	964	12.6	4,011	357	442	17	3,196
20-24 years .....	5,348	83.5	4,843	505	9.4	1,057	169	233	45	610
25 years and over .....	2,621	53.2	2,382	239	9.1	2,216	915	56	308	937
<b>Women who head families</b> .....	4,955	59.1	4,527	428	8.6	3,429	2,707	37	141	544
<b>Relatives in female-headed families</b> .....	4,496	60.8	3,756	739	16.4	2,898	846	222	260	1,570
16-19 years .....	1,628	60.3	1,264	364	22.4	1,070	136	133	11	790
20-24 years .....	1,361	76.4	1,133	228	16.8	422	120	62	19	220
25 years and over .....	1,507	51.8	1,359	147	9.8	1,406	590	27	230	560
<b>Persons not living in families<sup>2</sup></b> .....	14,842	61.5	14,034	809	5.5	9,290	5,016	189	602	3,483

<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	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
	<b>Total, 16 years and over</b> .....	2,750	2,885	4.6	4.7	3,181	3,252	7.6
Married, spouse present .....	970	1,069	2.4	2.6	1,415	1,413	6.3	6.0
Widowed, divorced, or separated .....	246	291	5.4	6.2	545	580	6.9	7.2
Single (never married) .....	1,535	1,525	9.8	9.8	1,221	1,259	10.4	10.5
<b>White, 16 years and over</b> .....	2,116	2,271	4.0	4.2	2,401	2,476	6.6	6.6
Married, spouse present .....	805	907	2.2	2.5	1,172	1,217	5.9	5.8
Widowed, divorced, or separated .....	174	218	4.7	5.8	395	407	6.2	6.3
Single (never married) .....	1,137	1,146	8.4	8.6	835	852	8.4	8.4
<b>Black and other, 16 years and over</b> .....	635	614	9.9	9.2	780	776	13.3	13.0
Married, spouse present .....	164	162	4.7	4.6	243	196	9.9	8.0
Widowed, divorced, or separated .....	72	73	8.5	8.1	151	173	9.8	11.0
Single (never married) .....	398	379	19.4	17.2	386	407	20.4	21.1
<b>Total, 20 to 64 years of age</b> .....	1,940	2,067	3.7	3.9	2,343	2,432	6.5	6.5
Married, spouse present .....	904	999	2.4	2.6	1,321	1,295	6.1	5.7
Widowed, divorced, or separated .....	227	273	5.3	6.2	520	539	7.2	7.3
Single (never married) .....	809	795	8.3	7.9	503	598	7.2	8.0
<b>White, 20 to 64 years of age</b> .....	1,493	1,621	3.2	3.4	1,772	1,847	5.8	5.7
Married, spouse present .....	747	838	2.2	2.4	1,094	1,108	5.7	5.5
Widowed, divorced, or separated .....	163	210	4.7	5.9	373	375	6.5	6.4
Single (never married) .....	582	572	6.9	6.7	305	364	5.3	6.0
<b>Black and other, 20 to 64 years of age</b> .....	448	446	8.1	7.7	572	585	11.2	11.1
Married, spouse present .....	157	159	4.7	4.6	228	187	9.6	7.9
Widowed, divorced, or separated .....	64	63	7.9	7.4	145	164	10.1	11.0
Single (never married) .....	227	222	16.6	14.8	199	234	15.4	16.8

# HOUSEHOLD DATA

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
Total, 16 years and over	5,931	6,137	5.8	5.9	4.6	4.7	7.6	7.5
White-collar workers	1,796	1,951	3.7	3.8	2.2	2.3	5.0	5.2
Professional and technical	482	511	3.4	3.4	2.2	2.2	5.0	5.1
Managers and administrators, except farm	179	232	1.7	2.1	1.2	1.6	3.2	3.5
Sales workers	249	259	4.0	4.0	3.1	2.6	5.1	5.7
Clerical workers	886	948	5.0	5.1	3.6	3.9	5.3	5.4
Blue-collar workers	2,063	2,301	5.9	6.5	5.1	5.7	9.6	9.8
Craft and kindred workers	478	532	3.5	3.9	3.4	3.9	5.9	4.0
Carpenters and other construction craft	215	205	5.0	4.6	4.9	4.6	(1)	(1)
All other	263	327	2.9	3.5	2.6	3.5	5.4	3.8
Operatives, except transport	960	1,026	8.0	8.4	6.3	6.8	10.5	10.7
Transport equipment operatives	173	218	4.8	5.7	4.1	5.7	15.1	6.3
Nonfarm laborers	452	525	7.7	9.2	8.0	9.0	5.0	10.8
Construction laborers	128	157	10.1	12.9	9.8	12.7	(1)	(1)
All other	324	368	7.0	8.2	7.5	7.9	3.9	10.2
Service workers	991	957	7.0	6.9	6.1	5.9	7.5	7.6
Private household	63	49	5.3	4.3	(1)	(1)	5.2	4.4
All other	927	908	7.2	7.2	6.1	5.9	7.9	8.0
Farm workers	93	93	2.8	2.9	1.9	2.4	6.1	4.8
No previous work experience	988	835	--	--	--	--	--	--
16 to 19 years	744	593	--	--	--	--	--	--
20 to 24 years	161	158	--	--	--	--	--	--
25 years and over	83	86	--	--	--	--	--	--

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

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

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
Total, 16 years and over	100.0	100.0	5.8	5.9	4.6	4.7	7.6	7.5
Nonagricultural private wage and salary workers	68.3	70.5	5.4	5.6	4.5	4.8	6.7	5.8
Mining	.5	.7	3.3	4.7	3.6	4.2	(1)	8.5
Construction	5.9	5.8	6.6	6.6	6.5	6.6	7.9	7.9
Manufacturing	19.7	22.0	5.2	5.8	4.1	4.7	7.7	8.0
Durable goods	11.3	12.1	5.1	5.3	4.0	4.8	8.1	6.8
Lumber and wood products	.6	.6	5.3	5.2	5.7	5.1	(1)	5.2
Furniture and fixtures	.5	.6	5.0	6.6	2.3	5.2	11.1	9.2
Stone, clay, and glass products	.6	.7	5.1	5.8	2.5	4.3	14.5	12.1
Primary metal industries	.8	.7	3.7	3.4	3.0	3.6	9.5	2.1
Fabricated metal products	1.5	1.6	5.9	6.1	5.6	5.0	7.2	10.1
Machinery, except electrical equipment	1.4	1.3	3.2	2.9	2.6	2.8	5.7	3.7
Electrical equipment	1.8	1.6	4.7	4.2	2.8	3.2	7.4	5.5
Transportation equipment	2.6	3.8	6.5	9.8	6.3	9.2	7.9	13.0
Automobiles	1.9	3.0	8.4	13.6	8.5	13.0	8.0	16.4
Other transportation equipment	.6	.8	3.9	4.9	3.3	4.5	7.5	7.3
Instruments and related products	.4	.3	4.2	2.7	.8	2.0	8.4	3.5
Other durable goods industries	1.1	.7	8.4	6.2	5.8	5.1	11.3	7.3
Nondurable goods	8.4	9.9	5.4	6.4	4.2	4.5	7.3	9.2
Food and kindred products	2.1	2.9	5.9	8.6	4.5	6.3	8.8	13.7
Textile mill products	.8	.9	5.4	5.8	4.5	3.5	6.3	9.4
Apparel and other textile products	1.7	2.3	7.7	10.1	10.8	6.8	7.0	10.9
Paper and allied products	.6	.5	4.3	3.7	3.7	2.2	6.5	8.1
Printing and publishing	1.2	1.1	4.8	4.4	4.6	3.8	5.1	5.3
Chemicals and allied products	.3	.7	1.5	3.3	.7	3.3	4.1	3.2
Rubber and plastics products	.8	.6	6.6	5.4	5.1	3.4	9.1	9.2
Other nondurable goods industries	.9	.9	8.1	8.0	4.8	7.4	12.4	9.4
Transportation and public utilities	3.1	3.2	3.5	3.5	2.9	3.0	5.2	5.0
Railroads and railway express	.4	.1	4.0	1.1	3.9	1.2	(1)	(1)
Other transportation	2.0	2.3	4.9	5.2	3.9	4.9	9.1	6.5
Communication and other public utilities	.7	.8	1.8	2.2	1.2	1.1	2.9	4.1
Wholesale and retail trade	20.1	19.6	6.3	6.3	4.9	5.1	7.9	7.7
Finance, insurance, and real estate	2.4	3.4	2.7	3.8	2.4	2.4	2.9	4.6
Service industries	16.7	15.8	5.8	5.7	4.8	5.1	6.4	6.0
Professional services	7.8	7.1	4.9	4.5	4.3	3.1	5.2	5.1
All other service industries	8.9	8.8	6.9	7.2	5.3	6.8	8.5	7.5
Agricultural wage and salary workers	2.0	2.1	6.5	7.3	4.6	6.4	13.3	10.4
All other classes of workers	13.1	13.7	3.2	3.4	2.2	2.4	4.6	4.8
No previous work experience	16.7	13.6	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
<b>UNEMPLOYMENT LEVEL</b>												
Total unemployed, in thousands.....	5,931	6,137	2,015	2,125	2,373	2,473	1,542	1,539	4,517	4,747	1,414	1,390
Job losers.....	2,293	2,539	1,154	1,335	841	864	299	340	1,778	2,036	515	503
On layoff.....	641	879	319	463	266	333	57	82	508	718	133	161
Other job losers.....	1,652	1,660	835	872	575	531	242	258	1,270	1,318	382	342
Job leavers.....	933	993	370	339	402	422	160	231	756	810	177	183
Reentrants.....	1,717	1,771	408	381	970	1,014	339	376	1,300	1,332	417	439
New entrants.....	988	833	83	69	160	173	745	591	683	570	305	264
<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.....	38.7	41.4	57.2	62.9	35.4	34.9	19.4	22.1	39.3	42.9	36.4	36.3
On layoff.....	10.8	14.3	15.8	21.8	11.2	13.5	3.7	5.3	11.2	15.1	9.4	11.6
Other job losers.....	27.9	27.1	41.4	41.1	24.2	21.4	15.7	16.8	28.1	27.8	27.0	24.7
Job leavers.....	15.7	16.2	19.4	16.0	16.9	17.1	10.4	15.0	16.7	17.1	12.5	13.2
Reentrants.....	28.9	28.9	20.2	17.9	40.9	41.0	22.0	24.5	28.8	28.1	29.5	31.6
New entrants.....	16.7	13.6	4.1	3.2	6.7	7.0	48.3	38.4	15.1	12.0	21.6	19.0
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate.....	5.8	5.9	3.7	3.9	6.4	6.4	13.7	14.4	5.0	5.2	11.5	11.0
Job loser rate <sup>1</sup> .....	2.2	2.4	2.1	2.4	2.3	2.3	2.7	3.2	2.0	2.2	4.2	4.0
Job leaver rate <sup>1</sup> .....	.9	1.0	.7	.6	1.1	1.1	1.4	2.2	.8	.9	1.4	1.5
Reentrant rate <sup>1</sup> .....	1.7	1.7	.8	.7	2.6	2.6	3.0	3.5	1.4	1.5	3.4	3.5
New entrant rate <sup>1</sup> .....	1.0	.8	.2	.1	.4	.4	6.6	5.5	.8	.6	2.5	2.1

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

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

[Percent distribution]

Reason, sex, and age	August 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>6,137</b>	<b>100.0</b>	<b>50.8</b>	<b>32.3</b>	<b>16.9</b>	<b>8.5</b>	<b>8.4</b>
Job losers.....	2,539	100.0	45.7	30.4	23.8	12.5	11.4
On layoff.....	879	100.0	60.7	28.0	11.3	6.1	5.2
Other job losers.....	1,660	100.0	37.8	31.7	30.5	15.8	14.6
Job leavers.....	993	100.0	53.6	30.9	15.5	7.7	7.8
Reentrants.....	1,771	100.0	57.1	31.3	11.7	5.9	5.8
New entrants.....	833	100.0	49.5	42.1	8.5	2.6	5.8
<b>Males, 20 years and over.....</b>	<b>2,125</b>	<b>100.0</b>	<b>44.5</b>	<b>29.5</b>	<b>26.0</b>	<b>12.3</b>	<b>13.6</b>
Job losers.....	1,335	100.0	42.2	28.4	29.4	14.8	14.6
On layoff.....	463	100.0	63.6	25.8	10.6	4.7	5.9
Other job losers.....	872	100.0	30.9	29.8	39.3	20.1	19.2
Job leavers.....	339	100.0	47.4	33.2	19.5	8.7	10.7
Reentrants.....	381	100.0	50.1	27.5	22.4	8.9	13.6
New entrants.....	69	100.0	(1)	(1)	(1)	(1)	(1)
<b>Females, 20 years and over.....</b>	<b>2,473</b>	<b>100.0</b>	<b>52.6</b>	<b>31.7</b>	<b>15.7</b>	<b>8.7</b>	<b>7.0</b>
Job losers.....	864	100.0	43.2	35.3	21.5	12.5	9.0
On layoff.....	333	100.0	53.5	32.5	14.1	9.4	4.6
Other job losers.....	531	100.0	36.7	37.1	26.2	14.4	11.7
Job leavers.....	422	100.0	51.4	30.5	18.1	10.0	8.1
Reentrants.....	1,014	100.0	60.6	29.5	9.9	5.5	4.4
New entrants.....	173	100.0	56.0	29.6	14.4	4.8	9.6
<b>Both sexes, 16 to 19 years.....</b>	<b>1,539</b>	<b>100.0</b>	<b>56.4</b>	<b>37.2</b>	<b>6.3</b>	<b>2.9</b>	<b>3.4</b>
Job losers.....	340	100.0	66.0	25.8	8.2	3.5	4.6
On layoff.....	82	100.0	73.8	22.2	3.9	1.0	2.9
Other job losers.....	258	100.0	63.5	27.0	9.5	4.3	5.2
Job leavers.....	231	100.0	66.7	28.3	5.0	1.9	3.1
Reentrants.....	376	100.0	54.7	39.7	5.6	4.0	1.5
New entrants.....	591	100.0	48.0	45.7	6.3	2.1	4.2

<sup>1</sup> Percent not shown where base is less than 75,800.

# HOUSEHOLD DATA

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

Sex, age, and race	August 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	6,137	5,077	25.3	6.8	72.3	30.2	14.9	5.6	1.55
16 to 19 years .....	1,539	1,425	19.5	3.8	79.9	24.2	15.2	2.8	1.45
20 to 24 years .....	1,434	1,196	30.7	8.4	74.4	30.5	13.2	5.9	1.63
25 to 34 years .....	1,467	1,147	29.0	9.1	69.0	34.1	14.6	5.6	1.61
35 to 44 years .....	736	556	25.2	8.6	68.9	33.5	14.0	6.7	1.57
45 to 54 years .....	523	415	25.8	5.5	66.0	35.7	20.7	9.4	1.63
55 to 64 years .....	337	252	18.3	5.6	68.7	27.0	14.3	11.5	1.45
65 years and over .....	100	87	13.8	3.4	57.5	33.3	17.2	5.7	1.31
<b>Males, 16 years and over</b> .....	2,885	2,306	27.8	7.7	72.5	27.6	17.2	6.7	1.59
16 to 19 years .....	760	700	21.6	4.0	77.3	21.4	16.4	3.0	1.44
20 to 24 years .....	660	528	31.6	9.5	73.1	27.3	15.7	5.3	1.62
25 to 34 years .....	666	474	32.7	11.0	71.3	36.7	19.4	7.2	1.78
35 to 44 years .....	297	210	33.8	9.5	70.5	26.2	16.2	8.6	1.65
45 to 54 years .....	246	195	33.3	6.7	67.7	29.2	19.0	14.4	1.70
55 to 64 years .....	190	144	15.3	9.0	63.2	22.9	17.4	14.6	1.42
65 years and over .....	58	56	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Females, 16 years and over</b> .....	3,252	2,771	23.1	6.1	73.2	32.3	13.1	4.7	1.52
16 to 19 years .....	779	725	17.5	3.6	82.3	26.9	13.9	2.6	1.47
20 to 24 years .....	766	668	29.9	7.5	75.6	33.1	11.2	6.3	1.64
25 to 34 years .....	801	572	26.5	7.7	67.3	32.3	11.3	4.5	1.50
35 to 44 years .....	439	346	19.9	8.1	67.9	37.6	13.0	5.5	1.52
45 to 54 years .....	278	220	18.6	4.5	64.5	41.4	22.3	5.0	1.56
55 to 64 years .....	148	109	21.1	1.8	75.2	32.1	10.1	7.3	1.48
65 years and over .....	41	31	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White, 16 years and over</b> .....	4,747	3,859	22.6	6.5	74.0	31.6	15.9	5.8	1.56
Males .....	2,271	1,782	25.9	7.3	72.6	28.8	17.5	7.7	1.60
Females .....	2,476	2,077	19.7	5.9	75.2	34.1	14.5	4.2	1.54
<b>Black and other, 16 years and over</b> .....	1,390	1,218	33.8	7.8	69.3	25.5	11.9	4.9	1.53
Males .....	614	524	34.4	9.0	71.9	23.5	16.0	3.4	1.58
Females .....	776	693	33.5	6.9	67.4	27.0	8.8	6.1	1.50

<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	August 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	6,137	5,077	25.3	6.8	72.3	30.2	14.9	5.6	1.55
Job losers .....	2,539	1,640	33.8	8.4	74.0	32.6	17.7	5.4	1.72
Job leavers .....	993	979	24.6	6.9	73.9	36.5	14.4	4.6	1.61
Reentrants .....	1,771	1,649	19.7	6.5	68.5	27.5	12.9	7.8	1.43
New entrants .....	833	812	20.1	4.4	78.0	22.9	14.0	3.0	1.42
<b>Males, 16 years and over</b> .....	2,885	2,306	27.8	7.7	72.5	27.6	17.2	6.7	1.59
Job losers .....	1,550	1,019	33.6	8.8	72.3	28.9	18.5	7.0	1.69
Job leavers .....	476	473	25.8	6.6	73.8	31.7	15.2	5.9	1.59
Reentrants .....	549	507	21.7	8.5	70.6	24.5	17.2	8.3	1.51
New entrants .....	310	307	22.1	4.6	73.9	21.8	16.0	4.6	1.43
<b>Females, 16 years and over</b> .....	3,252	2,771	23.1	6.1	73.2	32.3	13.1	4.7	1.52
Job losers .....	989	621	34.1	7.4	76.8	38.6	16.4	2.7	1.76
Job leavers .....	517	506	23.5	7.3	73.9	40.7	13.8	3.4	1.63
Reentrants .....	1,223	1,139	19.0	5.7	67.7	29.0	11.0	7.5	1.40
New entrants .....	523	505	18.8	4.2	80.6	23.4	12.9	2.0	1.42

NOTE: See notes, table A-15.

## A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
Total, 16 years and over .....	5,931	6,137	100.0	100.0	4,761	4,888	100.0	100.0
Less than 5 weeks .....	2,701	3,116	45.5	50.8	2,046	2,314	43.0	47.3
5 to 14 weeks .....	2,157	1,984	36.4	32.3	1,737	1,616	36.5	33.1
5 to 10 weeks .....	1,694	1,463	28.6	23.8	1,358	1,187	28.5	24.3
11 to 14 weeks .....	463	521	7.8	8.5	379	428	8.0	8.8
15 weeks and over .....	1,073	1,036	18.1	16.9	978	958	20.5	19.6
16 to 26 weeks .....	478	520	8.1	8.5	440	485	9.2	9.9
27 weeks and over .....	595	517	10.0	8.4	538	473	11.3	9.7
27 to 51 weeks .....	325	275	5.5	4.5	295	256	6.2	5.2
52 weeks and over .....	270	241	4.6	3.9	243	217	5.1	4.4
Average (mean) duration, in weeks .....	11.0	10.2	--	--	11.9	11.2	--	--
Median duration, in weeks .....	6.0	4.9	--	--	6.4	5.6	--	--

## 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			Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
	August 1979								Aug. 1978	Aug. 1979	Aug. 1978
Total, 16 years and over .....	6,137	3,116	1,984	520	517	10.2	4.9	45.5	50.8	19.1	16.9
16 to 21 years .....	2,227	1,250	777	100	101	7.7	4.5	49.1	56.1	10.3	9.0
18 to 19 years .....	1,539	869	573	44	53	7.0	4.4	48.1	56.4	9.2	6.3
20 to 24 years .....	1,434	779	449	109	97	9.1	4.6	47.7	54.3	17.0	14.4
26 to 34 years .....	1,467	721	472	153	122	10.2	5.2	44.8	49.1	19.9	18.7
35 to 44 years .....	736	357	212	79	87	12.3	5.4	46.8	48.5	20.4	22.6
45 to 54 years .....	523	215	152	69	87	14.7	7.4	38.4	41.1	27.2	29.9
55 to 64 years .....	337	138	94	49	57	16.0	7.7	35.6	41.0	34.4	31.2
65 years and over .....	100	39	32	17	12	17.3	8.0	45.0	37.7	32.3	29.7
Males, 16 years and over .....	2,885	1,364	919	277	324	12.1	5.6	43.5	47.3	21.8	20.8
16 to 21 years .....	1,087	592	397	46	53	8.1	4.6	49.3	54.4	12.6	9.0
18 to 19 years .....	760	418	293	15	34	7.5	4.5	49.6	55.0	11.0	6.4
20 to 24 years .....	668	344	213	63	49	10.0	4.9	45.3	51.4	19.3	16.7
26 to 34 years .....	666	313	208	75	70	11.3	5.6	39.9	47.0	25.5	21.7
35 to 44 years .....	297	120	84	30	63	17.0	6.9	40.8	40.4	27.9	31.2
45 to 54 years .....	246	80	59	51	55	19.2	10.5	38.0	32.7	35.9	43.2
55 to 64 years .....	190	64	48	34	44	20.3	11.0	31.7	33.7	32.1	41.1
65 years and over .....	58	25	14	9	10	21.4	8.3	46.9	(1)	32.8	(1)
Females, 16 years and over .....	3,252	1,752	1,065	243	192	8.6	4.6	47.3	53.9	14.9	13.4
16 to 21 years .....	1,140	658	380	54	48	7.3	4.3	48.8	57.7	3.2	9.0
18 to 19 years .....	779	451	280	29	20	6.4	4.3	46.8	57.8	7.5	6.2
20 to 24 years .....	766	435	236	46	49	8.4	4.4	49.9	56.8	14.8	12.4
26 to 34 years .....	801	408	263	78	52	9.3	4.9	48.6	50.9	15.5	16.2
35 to 44 years .....	439	237	128	49	25	9.2	4.6	51.0	54.0	15.1	16.8
45 to 54 years .....	278	135	93	18	33	10.7	5.4	38.7	48.6	20.3	18.1
55 to 64 years .....	148	74	46	15	13	10.4	5.0	39.3	50.3	36.6	18.5
65 years and over .....	41	12	19	8	2	11.4	7.8	(1)	(1)	(1)	(1)
White, 16 years and over .....	4,747	2,469	1,521	398	359	9.5	4.8	47.8	52.0	17.1	15.9
Males .....	2,271	1,109	719	224	218	11.0	5.3	44.5	48.8	20.9	19.5
Females .....	2,476	1,360	802	173	141	8.2	4.6	50.7	54.9	13.7	12.7
Black and other, 16 years and over .....	1,390	647	463	122	158	12.6	5.8	38.3	46.5	21.4	20.2
Males .....	614	255	200	53	106	16.0	6.9	40.1	41.6	24.8	25.8
Females .....	776	392	263	70	52	9.8	5.0	36.9	50.5	18.6	15.7
Males, 16 years and over:											
Married, spouse present .....	1,069	490	323	119	136	12.8	5.9	40.6	45.8	28.1	23.9
Widowed, divorced, or separated .....	291	120	86	34	50	16.3	7.6	42.6	41.3	22.2	29.1
Single (never married) .....	1,525	754	510	123	138	10.8	5.1	45.4	49.5	17.8	17.1
Females, 16 years and over:											
Married, spouse present .....	1,413	785	429	118	81	8.2	4.5	50.9	55.6	15.0	14.1
Widowed, divorced, or separated .....	580	301	189	43	47	9.5	4.8	43.0	51.8	19.7	15.5
Single (never married) .....	1,259	666	447	82	64	8.6	4.7	45.0	52.9	12.5	11.6

<sup>1</sup> Percent not shown where base is less than 76,000.

# HOUSEHOLD DATA

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
	August 1979										
<b>OCCUPATION</b>											
White-collar workers	1,951	1,002	611	174	164	10.5	4.9	43.1	51.4	20.9	17.3
Professional and managerial	743	366	222	76	79	11.3	5.7	42.2	49.3	21.5	20.9
Sales workers	259	149	64	22	24	11.1	4.3	43.7	57.5	16.7	18.0
Clerical workers	948	487	325	76	60	9.7	4.9	43.6	51.4	21.7	14.4
Blue-collar workers	2,301	1,140	685	247	230	11.0	5.1	47.4	49.5	20.4	20.7
Craft and kindred workers	532	249	162	60	60	12.6	5.6	46.4	46.9	22.6	22.6
Operatives, except transport	1,026	528	288	104	106	10.6	4.9	48.1	51.4	21.0	20.5
Transport equipment operatives	218	104	68	24	22	11.1	5.6	38.3	47.9	24.9	21.1
Nonfarm laborers	525	258	167	60	41	10.2	5.2	50.5	49.1	15.2	19.1
Service workers	957	497	314	74	72	9.2	4.8	49.2	51.9	17.3	15.2
<b>INDUSTRY<sup>1</sup></b>											
Agriculture	131	86	33	5	7	7.8	3.8	53.0	65.7	6.9	9.0
Construction	379	176	126	38	39	11.0	5.8	54.8	46.4	17.3	20.3
Manufacturing	1,352	707	353	139	153	11.1	4.8	46.1	52.3	24.2	21.6
Durable goods	746	393	197	64	91	11.4	4.7	46.1	52.7	25.5	20.9
Nondurable goods	606	314	155	75	62	10.8	4.8	46.2	51.8	22.4	22.6
Transportation and public utilities	223	107	68	28	19	12.3	5.5	46.4	48.1	20.1	21.5
Wholesale and retail trade	1,214	596	412	122	83	9.6	5.2	45.5	49.2	18.4	16.9
Finance and service industries	1,658	879	529	129	122	9.6	4.8	44.4	53.0	19.0	15.1
Public administration	189	73	69	26	20	14.0	8.0	40.7	38.9	21.7	24.3
No previous work experience	835	414	351	22	49	8.9	5.1	41.4	49.6	9.9	8.4

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

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

[In thousands]

Age and type of industry	Total		Males		Females	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
	<b>All industries</b>	<b>96,116</b>	<b>98,226</b>	<b>57,191</b>	<b>57,891</b>	<b>38,925</b>
16 to 19 years	9,683	9,157	5,304	4,996	4,379	4,162
16 to 17 years	4,197	3,864	2,324	2,136	1,873	1,728
18 to 19 years	5,487	5,293	2,980	2,859	2,507	2,434
20 to 24 years	14,276	14,468	7,860	7,955	6,416	6,513
25 to 54 years	58,172	60,383	35,269	36,391	22,903	24,291
25 to 34 years	24,251	25,505	14,740	15,201	9,511	10,304
35 to 44 years	17,711	18,602	10,715	11,084	6,996	7,518
45 to 54 years	16,210	16,276	9,815	9,807	6,395	6,469
55 to 64 years	11,134	11,296	6,924	6,981	4,210	4,315
55 to 59 years	6,997	7,041	4,305	4,318	2,692	2,724
60 to 64 years	4,137	4,254	2,619	2,664	1,518	1,591
65 years and over	2,851	2,923	1,835	1,867	1,016	1,055
<b>Nonagricultural industries</b>	<b>92,261</b>	<b>94,431</b>	<b>54,160</b>	<b>54,927</b>	<b>38,101</b>	<b>39,504</b>
16 to 19 years	9,046	8,628	4,798	4,586	4,249	4,042
16 to 17 years	3,805	3,533	2,016	1,883	1,789	1,650
18 to 19 years	5,241	5,095	2,781	2,703	2,460	2,392
20 to 24 years	13,778	13,968	7,469	7,552	6,309	6,416
25 to 54 years	56,407	58,538	33,941	34,710	22,466	23,829
25 to 34 years	23,595	24,775	14,229	14,517	9,366	10,158
35 to 44 years	17,187	18,093	10,322	10,717	6,865	7,376
45 to 54 years	15,625	15,670	9,391	9,375	6,234	6,294
55 to 64 years	10,576	10,752	6,463	6,535	4,113	4,217
55 to 59 years	6,702	6,775	4,066	4,107	2,636	2,667
60 to 64 years	3,875	3,977	2,397	2,428	1,477	1,550
65 years and over	2,453	2,545	1,489	1,544	964	1,001
<b>Agriculture</b>	<b>3,856</b>	<b>3,795</b>	<b>3,031</b>	<b>2,964</b>	<b>824</b>	<b>831</b>
16 to 19 years	637	529	506	409	131	120
16 to 17 years	392	331	308	253	84	78
18 to 19 years	245	198	199	156	47	42
20 to 24 years	498	500	391	403	107	97
25 to 54 years	1,765	1,845	1,328	1,382	438	463
25 to 34 years	656	730	511	584	145	146
35 to 44 years	524	509	393	367	131	142
45 to 54 years	585	606	424	432	161	174
55 to 64 years	558	544	460	446	97	98
55 to 59 years	295	266	239	210	56	56
60 to 64 years	263	277	221	236	41	41
65 years and over	397	377	345	323	52	55

## 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	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
<b>TOTAL</b> .....	96,116	98,226	51,887	52,895	34,546	36,174	5,304	4,996	4,379	4,162
White-collar workers .....	46,853	49,120	21,891	22,600	22,202	23,737	749	723	2,012	2,060
Professional and technical .....	13,756	14,474	7,960	8,192	5,526	5,084	144	100	126	99
Health workers .....	2,614	2,875	935	981	1,652	1,872	10	3	19	18
Teachers, except college .....	2,328	2,587	639	766	1,664	1,808	6	1	19	12
Other professional and technical .....	8,814	9,012	6,386	6,445	2,210	2,404	128	96	88	69
Managers and administrators, except farm .....	10,286	10,880	7,775	8,091	2,392	2,674	77	61	42	55
Salaried workers .....	8,397	8,972	6,306	6,631	1,978	2,229	74	57	41	55
Self-employed workers in retail trade .....	912	915	615	614	295	301	1	1	--	--
Self-employed workers, except retail trade .....	976	993	853	846	119	144	2	3	2	--
Sales workers .....	5,960	6,152	3,052	3,117	2,242	2,346	231	227	435	462
Retail trade .....	3,156	3,209	965	995	1,604	1,598	192	184	395	431
Other industries .....	2,805	2,943	2,087	2,122	638	747	40	43	40	31
Clerical workers .....	16,850	17,614	3,104	3,200	12,042	12,634	296	336	1,409	1,444
Stenographers, typists, and secretaries .....	4,726	4,808	72	58	4,248	4,363	10	14	396	372
Other clerical workers .....	12,124	12,806	3,032	3,142	7,794	8,271	286	322	1,013	1,072
Blue-collar workers .....	32,883	33,122	23,948	24,192	5,302	5,499	3,064	2,947	569	484
Craft and kindred workers .....	12,999	13,201	11,614	11,754	681	711	632	693	72	44
Carpenters .....	1,388	1,370	1,276	1,244	10	15	101	107	--	4
Construction craft, except carpenters .....	2,702	2,857	2,446	2,606	29	43	211	206	17	2
Mechanics and repairers .....	3,574	3,439	3,322	3,163	55	62	196	210	2	3
Metal craft .....	1,221	1,274	1,151	1,198	41	29	27	40	2	7
Blue-collar worker supervisors, not elsewhere classified .....	1,713	1,771	1,524	1,576	177	178	6	14	5	2
All other .....	2,401	2,491	1,895	1,967	369	383	92	115	46	27
Operatives, except transport .....	11,034	11,174	5,874	5,986	4,011	4,119	788	751	361	318
Durable goods manufacturing .....	4,889	5,020	3,003	3,014	1,517	1,667	251	243	118	97
Nondurable goods manufacturing .....	3,529	3,514	1,342	1,341	1,887	1,882	132	145	168	146
Other industries .....	2,616	2,640	1,528	1,631	607	570	405	364	76	76
Transport equipment operatives .....	3,435	3,578	3,021	3,125	176	227	230	207	8	19
Drivers, motor vehicles .....	2,892	3,002	2,526	2,601	165	210	196	173	6	19
All other .....	543	576	495	524	11	18	35	34	2	--
Nonfarm laborers .....	5,414	5,168	3,440	3,327	433	442	1,414	1,296	128	103
Construction .....	1,140	1,053	805	746	20	22	314	283	1	2
Manufacturing .....	1,157	1,113	844	795	145	152	159	146	9	20
Other industries .....	3,118	3,003	1,790	1,786	269	268	942	867	117	82
Service workers .....	13,155	12,872	3,914	3,953	6,479	6,394	1,064	1,008	1,697	1,518
Private household workers .....	1,127	1,093	10	18	848	816	17	13	252	246
Service workers, except private household .....	12,028	11,779	3,904	3,935	5,631	5,578	1,048	994	1,445	1,272
Food service workers .....	4,374	4,218	808	805	2,066	2,061	557	560	944	792
Protective service workers .....	1,370	1,421	1,245	1,263	100	123	20	30	5	6
All other .....	6,284	6,140	1,851	1,867	3,465	3,394	471	404	497	474
Farm workers .....	3,225	3,113	2,134	2,151	563	544	426	319	102	99
Farmers and farm managers .....	1,573	1,567	1,387	1,378	166	161	19	22	1	6
Farm laborers and supervisors .....	1,652	1,545	748	773	397	383	407	297	100	93
Paid workers .....	1,259	1,159	706	720	160	147	328	221	65	71
Unpaid family workers .....	393	386	41	53	236	237	79	75	36	22

# HOUSEHOLD DATA

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
<b>TOTAL</b>						
Total, 16 years and over (thousands)	96,116	98,226	57,131	57,891	38,925	40,335
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	48.7	50.0	39.6	40.3	62.2	64.0
Professional and technical	14.3	14.7	14.2	14.3	14.5	15.3
Managers and administrators, except farm	10.7	11.1	13.7	14.1	6.3	6.8
Sales workers	6.2	6.3	5.7	5.8	6.9	7.0
Clerical workers	17.5	17.9	5.9	6.1	34.6	34.9
Blue-collar workers	34.2	33.7	47.2	46.9	15.1	14.8
Craft and kindred workers	13.5	13.4	21.4	21.5	1.9	1.9
Operatives, except transport	11.5	11.4	11.6	11.6	11.2	11.0
Transport equipment operatives	3.6	3.6	5.7	5.8	.5	.6
Nonfarm laborers	5.6	5.3	8.5	8.0	1.4	1.4
Service workers	13.7	13.1	8.7	8.6	21.0	19.6
Private household workers	1.2	1.1	(1)	.1	2.8	2.6
Other service workers	12.5	12.0	8.7	8.5	18.2	17.0
Farm workers	3.4	3.2	4.5	4.3	1.7	1.6
Farmers and farm managers	1.6	1.6	2.5	2.4	.4	.4
Farm laborers and supervisors	1.7	1.6	2.0	1.8	1.3	1.2
<b>White</b>						
Total, 16 years and over (thousands)	85,256	86,995	51,431	51,844	33,825	35,151
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.4	51.6	41.0	41.8	64.7	66.0
Professional and technical	14.7	15.0	14.6	14.7	14.8	15.5
Managers and administrators, except farm	11.5	11.8	14.6	15.0	6.7	7.2
Sales workers	6.6	6.7	6.1	6.1	7.4	7.6
Clerical workers	17.6	18.0	5.7	5.9	35.7	35.7
Blue-collar workers	33.8	33.4	46.5	46.2	14.6	14.4
Craft and kindred workers	14.1	14.0	22.1	22.1	2.0	2.0
Operatives, except transport	11.0	10.9	11.2	11.3	10.7	10.4
Transport equipment operatives	3.4	3.5	5.4	5.4	.5	.6
Nonfarm laborers	5.3	5.0	7.8	7.4	1.4	1.4
Service workers	12.3	11.8	7.9	7.7	19.0	18.0
Private household workers	.9	.9	(1)	(1)	2.1	2.1
Other service workers	11.5	11.0	7.9	7.7	16.9	15.9
Farm workers	3.5	3.2	4.6	4.3	1.8	1.7
Farmers and farm managers	1.8	1.8	2.6	2.6	.5	.5
Farm laborers and supervisors	1.7	1.5	1.9	1.6	1.3	1.2
<b>Black and other</b>						
Total, 16 years and over (thousands)	10,860	11,231	5,761	6,047	5,100	5,184
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	35.8	37.9	26.9	27.4	45.8	50.1
Professional and technical	11.2	12.4	10.1	10.7	12.5	14.3
Managers and administrators, except farm	4.7	5.1	6.2	6.4	3.0	3.6
Sales workers	3.1	2.8	2.9	2.7	3.4	2.8
Clerical workers	16.7	17.6	7.7	7.6	26.9	29.3
Blue-collar workers	37.2	36.5	53.8	52.4	18.4	17.9
Craft and kindred workers	9.0	9.2	15.4	16.3	1.7	.9
Operatives, except transport	15.2	15.0	15.7	14.9	14.6	15.0
Transport equipment operatives	4.6	4.8	8.4	8.4	.4	.5
Nonfarm laborers	8.5	7.5	14.4	12.8	1.7	1.4
Service workers	24.5	22.9	15.6	16.0	34.5	30.9
Private household workers	3.7	3.1	.1	.2	7.7	6.5
Other service workers	20.8	19.8	15.6	15.9	26.8	24.4
Farm workers	2.5	2.8	3.6	4.2	1.3	1.2
Farmers and farm managers	.5	.3	.9	.5	.1	.1
Farm laborers and supervisors	2.0	2.5	2.7	3.6	1.2	1.1

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



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

[In thousands]

Age and sex	August 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	87,262	1,239	14,726	71,297	6,729	440	1,655	1,738	401
16 to 19 years	8,496	323	696	7,478	89	42	380	51	98
16 to 17 years	3,475	246	297	2,933	36	22	237	29	65
18 to 19 years	5,022	77	399	4,546	53	20	143	22	33
20 to 24 years	13,590	92	1,435	12,063	351	26	340	113	47
25 to 34 years	23,144	137	4,219	18,788	1,540	91	363	321	45
35 to 44 years	16,335	106	3,304	12,925	1,643	115	191	270	48
45 to 54 years	14,058	197	2,822	11,039	1,520	92	184	334	88
55 to 64 years	9,622	226	1,948	7,448	1,075	55	120	374	49
65 to 69 years	6,076	114	1,215	4,748	662	37	70	171	26
70 to 74 years	3,546	113	733	2,700	414	18	50	204	23
75 years and over	2,015	158	302	1,555	511	19	77	275	25
<b>Males, 16 years and over</b>	<b>50,102</b>	<b>182</b>	<b>7,540</b>	<b>42,379</b>	<b>4,785</b>	<b>41</b>	<b>1,293</b>	<b>1,543</b>	<b>128</b>
16 to 19 years	4,506	84	336	4,086	57	23	291	43	75
16 to 17 years	1,850	57	164	1,630	20	13	177	26	49
18 to 19 years	2,656	27	172	2,456	37	11	113	17	26
20 to 24 years	7,302	17	630	6,655	242	8	270	104	29
25 to 34 years	13,550	16	2,151	11,383	1,063	4	292	282	10
35 to 44 years	9,565	5	1,712	7,848	1,151	2	138	228	--
45 to 54 years	8,262	8	1,498	6,756	1,112	1	133	294	5
55 to 64 years	5,748	16	1,033	4,698	787	--	100	345	1
65 to 69 years	3,631	7	632	2,993	478	--	54	156	--
70 to 74 years	2,116	10	401	1,705	310	1	46	188	1
75 years and over	1,168	34	180	954	372	4	69	248	7
<b>Females, 16 years and over</b>	<b>37,160</b>	<b>1,057</b>	<b>7,186</b>	<b>28,917</b>	<b>1,944</b>	<b>399</b>	<b>362</b>	<b>195</b>	<b>273</b>
16 to 19 years	3,992	239	360	3,392	31	19	89	8	23
16 to 17 years	1,625	189	134	1,303	15	10	60	3	15
18 to 19 years	2,366	50	227	2,089	16	9	29	5	7
20 to 24 years	6,288	75	805	5,408	109	18	70	9	18
25 to 34 years	9,594	120	2,068	7,406	477	87	72	39	35
35 to 44 years	6,770	100	1,592	5,077	493	113	53	42	48
45 to 54 years	5,796	189	1,324	4,283	407	91	50	40	84
55 to 64 years	3,874	210	914	2,750	288	55	20	30	48
65 to 69 years	2,444	107	582	1,755	184	39	16	14	26
70 to 74 years	1,429	103	332	994	104	16	4	15	22
75 years and over	847	124	122	601	139	15	9	27	19

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

[In thousands]

Industry	August 1979											
	Total employed	White-collar workers				Blue-collar workers			Service workers			Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Total, 16 years and over:												
Agriculture	3,795	81	46	5	104	52	16	54	313	--	11	3,113
Mining	860	98	71	11	87	245	254	51	35	--	8	--
Construction	6,750	187	755	23	434	3,725	334	210	1,053	--	28	--
Manufacturing	22,492	2,360	1,621	516	2,698	4,380	8,534	828	1,113	--	442	--
Durable goods	13,518	1,635	958	176	1,559	2,879	5,020	394	667	--	231	--
Nondurable goods	8,974	725	664	340	1,138	1,502	3,514	434	446	--	212	--
Transportation and public utilities	6,588	574	693	51	1,506	1,377	191	1,458	517	--	231	--
Wholesale and retail trade	19,937	406	3,895	4,104	3,485	1,554	1,002	722	1,152	--	3,617	--
Wholesale trade	3,847	137	773	895	831	356	197	356	262	--	39	--
Retail trade	16,091	269	3,123	3,209	2,654	1,197	805	366	891	--	3,577	--
Finance, insurance, and real estate	5,869	337	1,160	1,262	2,601	130	15	9	91	--	265	--
Services	26,741	9,415	2,052	174	4,855	1,442	787	201	680	1,093	6,042	--
Private households	1,311	6	--	--	10	--	5	1	153	1,093	42	--
Other service industries	25,430	9,409	2,052	174	4,845	1,442	782	200	527	--	5,000	--
Public administration	5,194	1,016	596	7	1,844	295	41	45	214	--	1,136	--

# HOUSEHOLD DATA

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

(In thousands)

Reason not working	All industries		Nonegricultural industries					
			Total		Wage and salary workers <sup>1</sup>			
					Paid absences <sup>2</sup>		Unpaid absences <sup>2</sup>	
	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979
Total, 16 years and over . . . . .	11,351	10,688	10,870	10,502	5,994	5,775	4,167	3,975
Vacation . . . . .	8,748	8,333	8,635	8,219	5,323	5,087	2,866	2,679
Illness . . . . .	1,344	1,354	1,318	1,329	513	486	705	717
Bad weather . . . . .	40	58	28	45	--	--	--	--
Industrial dispute . . . . .	105	137	105	136	--	--	--	--
All other reasons . . . . .	814	807	783	773	158	203	596	578
Males, 16 years and over . . . . .	5,444	5,225	5,277	5,077	3,439	3,206	1,456	1,442
Vacation . . . . .	4,148	3,949	4,047	3,858	3,044	2,795	773	806
Illness . . . . .	796	771	770	752	304	299	400	376
All other reasons <sup>3</sup> . . . . .	501	505	461	466	91	111	283	260
Females, 16 years and over . . . . .	5,608	5,463	5,593	5,425	2,555	2,571	2,710	2,532
Vacation . . . . .	4,601	4,384	4,589	4,360	2,279	2,292	2,093	1,974
Illness . . . . .	548	583	548	577	209	187	304	340
All other reasons <sup>3</sup> . . . . .	459	496	455	488	67	92	313	318

<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	August 1979					
	Thousands of persons			Percent distribution		
	All industries	Nonegricultural industries	Agriculture	All industries	Nonegricultural industries	Agriculture
Total, 16 years and over . . . . .	87,538	83,930	3,609	100.0	100.0	100.0
1-34 hours . . . . .	19,279	18,282	996	22.0	21.8	27.6
1-4 hours . . . . .	627	583	44	.7	.7	1.2
5-14 hours . . . . .	3,104	2,872	231	3.5	3.4	6.4
15-29 hours . . . . .	9,570	9,056	514	10.9	10.8	14.3
30-34 hours . . . . .	5,978	5,771	207	6.8	6.9	5.7
35 hours and over . . . . .	68,262	65,648	2,611	78.0	78.2	72.4
35-39 hours . . . . .	6,204	6,049	154	7.1	7.2	4.3
40 hours . . . . .	37,414	36,814	599	42.7	43.9	16.6
41 hours and over . . . . .	24,644	22,785	1,858	28.2	27.1	51.5
41 to 48 hours . . . . .	9,325	9,095	230	10.7	10.8	6.4
49 to 59 hours . . . . .	8,435	7,872	562	9.6	9.4	15.6
60 hours and over . . . . .	6,884	5,818	1,066	7.9	6.9	29.6
Average hours, total at work . . . . .	39.7	39.4	46.0	--	--	--
Average hours, workers on full-time schedules . . . . .	43.3	42.9	53.7	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	August 1979					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
<b>Total, 16 years and over</b> . . . . .	19,279	7,229	12,048	18,282	6,906	11,376
<b>Economic reasons</b> . . . . .	4,060	1,645	2,415	3,799	1,530	2,269
Slack work . . . . .	1,643	1,071	572	1,484	977	507
Material shortages or repairs to plant and equipment . . . . .	104	104	--	99	99	--
New job started during week . . . . .	318	318	--	311	311	--
Job terminated during week . . . . .	153	153	--	144	144	--
Could find only part-time work . . . . .	1,843	--	1,843	1,762	--	1,762
<b>Other reasons</b> . . . . .	15,219	5,586	9,633	14,481	5,375	9,106
Does not want, or unavailable for, full-time work . . . . .	7,339	--	7,339	6,984	--	6,984
Vacation . . . . .	1,960	1,960	--	1,924	1,924	--
Illness . . . . .	1,618	1,439	179	1,575	1,413	162
Bad weather . . . . .	337	337	--	262	262	--
Industrial dispute . . . . .	39	39	--	39	39	--
Legal or religious holiday . . . . .	138	138	--	137	137	--
Full time for this job . . . . .	1,554	--	1,554	1,464	--	1,464
All other reasons . . . . .	2,234	1,672	562	2,098	1,601	497
<b>Average hours:</b>						
Economic reasons . . . . .	21.6	23.4	20.3	21.7	23.6	20.5
Other reasons . . . . .	21.9	25.5	19.9	22.1	25.5	20.0
<b>Worked 30 to 34 hours:</b>						
Economic reasons . . . . .	1,221	662	559	1,165	631	534
Other reasons . . . . .	4,757	2,748	2,009	4,606	2,674	1,932

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

[Numbers in thousands]

Industry	August 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				
<b>Total, 16 years and over</b> <sup>1</sup> . . . . .	83,930	3,799	9,106	71,025	48,240	9,095	13,690	39.4	42.9	
<b>Wage and salary workers</b> . . . . .	77,427	3,456	7,998	65,973	46,063	8,588	11,322	39.2	42.4	
Construction . . . . .	5,246	250	201	4,795	3,366	532	897	40.7	42.5	
<b>Manufacturing</b> . . . . .	20,079	623	526	18,930	13,008	2,871	3,051	41.3	42.4	
Durable goods . . . . .	12,043	252	223	11,568	7,924	1,784	1,860	41.6	42.4	
Nondurable goods . . . . .	8,036	370	303	7,363	5,085	1,087	1,191	40.8	42.5	
Transportation and public utilities . . . . .	5,656	122	284	5,250	3,485	681	1,084	42.1	43.7	
Wholesale and retail trade . . . . .	16,512	1,147	3,118	12,247	7,777	1,926	2,544	37.5	43.1	
Finance, insurance, and real estate . . . . .	4,994	109	424	4,461	3,373	481	607	39.0	41.2	
<b>Service industries</b> . . . . .	19,504	1,117	3,231	15,156	11,294	1,543	2,319	36.7	41.6	
Private households . . . . .	1,154	192	562	400	263	44	93	25.0	44.7	
All other industries . . . . .	18,350	925	2,669	14,756	11,031	1,499	2,226	37.4	41.5	
Public administration . . . . .	4,668	76	204	4,388	3,369	427	592	40.5	41.8	
<b>Self-employed workers</b> . . . . .	6,062	329	914	4,819	2,072	485	2,262	42.8	49.1	
Unpaid family workers . . . . .	440	15	194	231	104	22	105	36.8	49.9	

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

# HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, race, and marital status	August 1979							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
<b>TOTAL</b>								
Both sexes, 16 years and over .....	83,930	3,799	9,106	71,025	48,240	22,785	39.4	42.9
16 to 21 years .....	13,425	1,465	2,726	9,234	7,054	2,180	34.7	41.1
16 to 19 years .....	8,208	1,079	2,207	4,922	3,890	1,032	32.5	40.6
16 to 17 years .....	3,328	551	1,370	1,407	1,129	278	28.0	39.8
18 to 19 years .....	4,879	528	838	3,513	2,758	755	35.6	40.9
20 years and over .....	75,722	2,720	6,899	66,103	44,350	21,753	40.2	43.0
20 to 24 years .....	13,045	829	1,095	11,121	8,005	3,116	38.9	41.8
25 years and over .....	62,678	1,890	5,804	54,984	36,348	18,636	40.5	43.3
25 to 44 years .....	37,744	1,140	2,716	33,888	22,016	11,872	41.1	43.4
45 to 64 years .....	22,711	683	2,018	20,010	13,563	6,447	40.5	43.1
65 years and over .....	2,223	67	1,070	1,086	770	316	29.9	43.2
<b>Males, 16 years and over .....</b>	<b>49,850</b>	<b>1,718</b>	<b>2,631</b>	<b>45,501</b>	<b>27,686</b>	<b>17,815</b>	<b>42.3</b>	<b>44.3</b>
16 to 21 years .....	7,169	725	1,123	5,321	3,819	1,503	36.5	41.9
16 to 19 years .....	4,386	557	963	2,866	2,170	696	34.1	41.4
16 to 17 years .....	1,791	311	616	864	677	187	29.8	40.2
18 to 19 years .....	2,595	246	347	2,002	1,493	509	37.2	41.9
20 years and over .....	45,465	1,161	1,609	42,635	25,515	17,120	43.1	44.5
20 to 24 years .....	7,103	372	318	6,413	4,144	2,269	41.1	43.1
25 years and over .....	38,362	789	1,350	36,223	21,373	14,850	43.4	44.7
25 to 44 years .....	23,018	458	388	22,172	12,673	9,499	44.1	45.0
45 to 64 years .....	13,980	299	377	13,304	8,189	5,115	43.4	44.5
65 years and over .....	1,363	31	585	747	510	237	31.4	43.2
<b>Females, 16 years and over .....</b>	<b>34,079</b>	<b>2,081</b>	<b>6,475</b>	<b>25,523</b>	<b>20,553</b>	<b>4,970</b>	<b>35.3</b>	<b>40.3</b>
16 to 21 years .....	6,256	739	1,603	3,914	3,238	676	32.6	39.8
16 to 19 years .....	3,822	522	1,245	2,055	1,718	337	30.6	39.5
16 to 17 years .....	1,538	242	754	542	451	91	25.9	39.2
18 to 19 years .....	2,284	281	491	1,512	1,266	246	33.8	39.6
20 years and over .....	30,257	1,559	5,230	23,468	18,835	4,633	35.9	40.4
20 to 24 years .....	5,943	457	776	4,710	3,863	847	36.2	40.1
25 years and over .....	24,314	1,102	4,454	18,758	14,973	3,785	35.9	40.5
25 to 44 years .....	14,724	681	2,326	11,717	9,344	2,373	36.4	40.4
45 to 64 years .....	8,731	384	1,642	6,705	5,372	1,333	35.8	40.3
65 years and over .....	859	36	486	337	259	79	27.4	43.2
<b>RACE</b>								
<b>White .....</b>	<b>74,238</b>	<b>3,093</b>	<b>8,254</b>	<b>62,891</b>	<b>41,653</b>	<b>21,238</b>	<b>39.6</b>	<b>43.1</b>
Males .....	44,588	1,388	2,308	40,892	24,174	16,718	42.6	44.6
Females .....	29,649	1,704	5,945	22,000	17,480	4,520	35.2	40.4
<b>Black and other .....</b>	<b>9,692</b>	<b>706</b>	<b>853</b>	<b>8,133</b>	<b>6,587</b>	<b>1,546</b>	<b>37.9</b>	<b>41.2</b>
Males .....	5,262	329	323	4,610	3,513	1,097	39.6	42.2
Females .....	4,430	377	530	3,523	3,074	449	35.9	39.8
<b>MARITAL STATUS</b>								
<b>Males, 16 years and over:</b>								
Married, spouse present .....	33,722	615	1,044	32,063	18,545	13,518	43.7	44.9
Widowed, divorced, or separated .....	3,820	141	171	3,508	2,133	1,375	42.7	44.5
Single (never married) .....	12,308	962	1,416	9,930	7,008	2,922	38.2	42.3
<b>Females, 16 years and over:</b>								
Married, spouse present .....	17,877	820	3,842	13,215	10,675	2,540	35.0	40.2
Widowed, divorced, or separated .....	6,518	373	872	5,273	4,064	1,209	37.1	41.0
Single (never married) .....	9,684	888	1,761	7,035	5,816	1,219	34.7	40.0

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

(Numbers in thousands)

Occupational group and sex	August 1979								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
<b>Total, 16 years and over</b> .....	84,565	3,871	9,205	71,489	48,502	9,146	13,841	39.4	39.6
<b>White-collar workers</b> .....	42,654	1,278	4,779	36,597	24,725	4,266	7,606	39.7	42.9
Professional and technical .....	11,198	267	967	9,964	6,792	1,133	2,039	40.1	42.6
Managers and administrators, except farm .....	9,889	127	379	9,383	4,504	1,285	3,594	45.7	47.0
Sales workers .....	5,663	335	1,143	4,185	2,545	579	1,060	37.6	43.8
Clerical workers .....	15,904	549	2,290	13,065	10,882	1,269	914	36.6	40.0
<b>Blue-collar workers</b> .....	30,299	1,525	1,579	27,195	18,082	4,120	4,993	40.8	43.0
Craft and kindred workers .....	12,163	401	379	11,383	7,163	1,851	2,369	42.1	43.5
Operatives, except transport .....	10,162	568	409	9,185	6,616	1,366	1,203	40.3	42.1
Transport equipment operatives .....	3,169	156	160	2,853	1,512	447	894	43.2	45.6
Nonfarm laborers .....	4,806	400	632	3,774	2,791	457	526	36.7	41.5
<b>Service workers</b> .....	11,512	1,068	2,847	7,697	5,695	760	1,242	34.8	42.3
Private household .....	1,024	166	480	378	248	42	88	25.9	44.2
Other service workers .....	10,588	902	2,367	7,319	5,447	718	1,154	35.6	42.2
<b>Males, 16 years and over</b> .....	50,316	1,780	2,688	45,848	27,872	6,478	11,498	42.2	41.4
<b>White-collar workers</b> .....	20,323	369	947	19,507	10,835	2,565	6,107	43.8	45.4
Professional and technical .....	7,022	118	307	6,597	4,097	768	1,732	42.7	44.2
Managers and administrators, except farm .....	7,435	74	150	7,211	3,150	989	3,072	47.2	48.0
Sales workers .....	3,128	90	241	2,797	1,476	434	887	42.9	45.5
Clerical workers .....	3,237	86	249	2,902	2,111	375	416	39.6	41.9
<b>Blue-collar workers</b> .....	24,952	1,119	1,113	22,720	14,506	3,565	4,649	41.5	43.5
Craft and kindred workers .....	11,473	360	304	10,809	6,735	1,772	2,302	42.4	43.7
Operatives, except transport .....	6,153	242	165	5,746	3,798	954	994	41.9	43.3
Transport equipment operatives .....	3,013	142	128	2,743	1,437	431	875	43.6	45.7
Nonfarm laborers .....	4,313	375	517	3,421	2,536	407	478	36.9	41.5
<b>Service workers</b> .....	4,541	292	628	3,621	2,531	348	742	38.9	43.5
Private household .....	28	7	9	12	12	--	--	22.4	33.5
Other service workers .....	4,513	285	619	3,609	2,519	348	742	39.0	43.5
<b>Females, 16 years and over</b> .....	34,251	2,091	6,517	25,643	20,632	2,669	2,342	35.3	36.5
<b>White-collar workers</b> .....	21,832	908	3,832	17,092	13,892	1,701	1,499	35.8	40.1
Professional and technical .....	4,175	148	660	3,367	2,694	366	307	35.7	39.6
Managers and administrators, except farm .....	2,454	52	229	2,173	1,356	296	521	41.2	43.9
Sales workers .....	2,536	245	902	1,389	1,071	145	173	31.0	40.5
Clerical workers .....	12,667	464	2,041	10,162	8,771	894	497	35.8	39.5
<b>Blue-collar workers</b> .....	5,348	407	466	4,475	3,576	556	343	37.4	40.3
Craft and kindred workers .....	689	42	75	572	426	79	67	37.1	40.6
Operatives, except transport .....	4,009	326	244	3,439	2,817	411	211	37.8	40.1
Transport equipment operatives .....	156	14	32	110	74	17	19	35.4	42.3
Nonfarm laborers .....	493	25	115	353	256	49	48	34.9	41.3
<b>Service workers</b> .....	7,071	776	2,219	4,076	3,164	412	500	32.1	41.2
Private household .....	996	159	471	366	235	43	88	26.0	44.5
Other service workers .....	6,075	617	1,748	3,710	2,930	369	411	33.1	40.8

# HOUSEHOLD DATA

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

[Numbers in thousands]

Employment status	August 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population .....	7,898	4,013	3,880	6,591	3,362	3,229	1,307	657	650
Civilian labor force .....	2,189	1,240	949	1,929	1,082	847	261	158	102
Employed .....	1,915	1,080	835	1,733	966	766	182	113	68
Agriculture .....	283	233	49	256	210	46	26	23	3
Nonagricultural industries .....	1,632	847	785	1,477	756	720	155	90	65
Unemployed .....	275	160	114	196	115	81	79	45	34
Unemployment rate .....	12.6	12.9	12.0	10.2	10.6	9.6	30.3	28.5	33.3
Not in labor force .....	5,709	2,778	2,931	4,662	2,280	2,382	1,046	498	548
Keeping house .....	332	39	293	258	35	223	75	4	70
Going to school .....	310	152	158	256	121	135	54	31	23
Unable to work .....	14	5	9	13	5	7	2	--	2
All other reasons .....	5,052	2,582	2,470	4,136	2,118	2,018	916	463	452

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

Characteristics	August 1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
Total .....	1,915	1,080	835	100.0	100.0	100.0
Nonagricultural industries .....	1,632	847	785	85.2	78.4	94.1
Wage and salary workers .....	1,516	775	742	79.1	71.7	89.0
Private household workers .....	567	172	395	29.6	15.9	47.4
Government workers .....	152	87	65	7.9	8.0	7.8
Other wage and salary workers .....	798	516	282	41.6	47.7	33.8
Self-employed workers .....	90	57	33	4.7	5.3	4.0
Unpaid family workers .....	26	16	10	1.4	1.5	1.2
Agriculture .....	283	233	49	14.8	21.6	5.9
Wage and salary workers .....	181	150	31	9.4	13.9	3.7
Self-employed workers .....	44	41	2	2.3	3.8	.2
Unpaid family workers .....	58	42	16	3.0	3.9	1.9
<b>OCCUPATION</b>						
Total .....	1,915	1,080	835	100.0	100.0	100.0
White-collar workers .....	376	220	156	19.6	20.4	18.7
Professional and technical .....	25	11	14	1.3	1.0	1.7
Managers and administrators, except farm .....	1	2	--	.1	.2	--
Sales workers .....	238	181	57	12.4	16.8	6.8
Clerical workers .....	111	26	85	5.8	2.4	10.2
Blue-collar workers .....	520	483	37	27.2	44.7	4.4
Craft and kindred workers .....	55	51	4	2.9	4.7	.5
Operatives, except transport .....	57	44	13	3.0	4.1	1.6
Transport equipment operatives .....	20	19	--	1.0	1.8	--
Nonfarm laborers .....	389	369	20	20.3	34.2	2.4
Service workers .....	796	202	594	41.6	18.7	71.2
Private household workers .....	418	22	396	21.8	2.0	47.5
Other service workers .....	378	180	198	19.7	16.7	23.7
Farm workers .....	222	175	47	11.6	16.2	5.6
Farmers and farm managers .....	9	6	2	.5	.6	.2
Farm laborers and supervisors .....	213	169	45	11.1	15.6	5.4

**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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	151,348	161,570	161,829	152,033	162,250	162,448	162,633	162,909	163,008	163,260	163,469	163,685	163,891
Armed Forces <sup>1</sup> .....	2,122	2,123	2,122	2,117	2,108	2,094	2,094	2,090	2,082	2,078	2,076	2,082	2,090
Civilian noninstitutional population <sup>1</sup> .....	139,226	159,447	159,707	159,916	160,142	160,353	160,539	160,819	160,926	161,182	161,393	161,604	161,801
Civilian labor force .....	120,663	130,374	131,077	121,628	131,867	132,183	132,527	132,714	132,111	132,247	132,528	133,059	133,049
Percent of civilian population .....	63.2	63.3	63.3	63.6	63.6	63.7	63.9	63.9	63.5	63.4	63.5	63.8	63.7
Employed .....	34,723	35,010	35,241	35,751	35,855	36,300	36,647	36,842	36,174	36,318	36,754	37,210	37,900
Percent of total population .....	30.7	30.8	30.8	30.9	30.9	30.9	30.9	30.9	30.7	30.7	30.8	30.9	30.9
Agriculture .....	3,351	3,406	3,374	3,275	3,387	3,232	3,311	3,343	3,186	3,184	3,260	3,262	3,322
Nonagricultural industries .....	31,372	31,604	31,867	32,476	32,468	33,068	33,335	33,499	32,987	33,134	33,494	33,949	34,578
Unemployed .....	5,940	5,964	5,836	5,877	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848	6,149
Unemployment rate .....	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0
Not in labor force .....	58,563	58,473	58,630	58,288	58,275	58,170	58,012	58,105	58,815	58,935	58,865	58,545	58,752
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	68,827	68,937	69,081	59,182	69,288	69,385	69,476	69,612	69,663	69,787	69,889	69,995	70,099
Civilian noninstitutional population <sup>1</sup> .....	67,127	67,236	67,382	57,486	67,600	67,726	67,816	67,939	67,997	68,123	68,227	68,319	68,417
Civilian labor force .....	53,396	53,459	53,593	53,938	54,033	54,333	54,485	54,444	54,243	54,261	54,395	54,567	54,527
Percent of civilian population .....	73.5	73.5	73.5	73.9	73.9	73.9	73.9	73.9	73.8	73.8	73.9	73.9	73.9
Employed .....	51,215	51,287	51,448	51,825	51,838	52,133	52,331	52,264	52,356	52,157	52,299	52,319	52,227
Percent of total population .....	74.4	74.4	74.5	74.9	74.8	75.1	75.3	75.1	74.7	74.7	74.8	74.7	74.5
Agriculture .....	2,357	2,409	2,363	2,337	2,403	2,293	2,324	2,355	2,271	2,274	2,306	2,323	2,385
Nonagricultural industries .....	48,858	48,878	49,085	49,498	49,435	49,841	50,007	49,909	49,785	49,883	49,993	49,996	49,843
Unemployed .....	2,181	2,172	2,145	2,113	2,195	2,200	2,154	2,180	2,187	2,105	2,096	2,249	2,300
Unemployment rate .....	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1	4.2
Not in labor force .....	13,731	13,777	13,789	13,548	13,567	13,393	13,331	13,495	13,754	13,862	13,832	13,752	13,890
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	75,753	75,873	75,998	76,110	76,227	76,337	76,440	76,589	76,645	76,782	76,896	77,014	77,127
Civilian noninstitutional population <sup>1</sup> .....	75,645	75,764	75,889	76,001	76,119	76,228	76,332	76,476	76,532	76,670	76,784	76,897	77,006
Civilian labor force .....	37,343	37,921	37,860	38,095	38,217	38,185	38,429	38,642	38,345	38,560	38,596	39,010	39,292
Percent of civilian population .....	49.6	50.1	49.9	50.1	50.2	50.1	50.3	50.5	50.1	50.3	50.3	50.7	51.0
Employed .....	35,312	35,691	35,726	35,887	35,990	36,019	36,252	36,440	36,165	36,323	36,373	36,861	36,968
Percent of total population .....	46.6	47.0	47.0	47.2	47.2	47.2	47.4	47.6	47.2	47.3	47.3	47.9	47.9
Agriculture .....	581	597	587	571	591	586	608	613	580	543	592	584	596
Nonagricultural industries .....	34,731	35,094	35,139	35,316	35,399	35,433	35,644	35,827	35,584	35,780	35,781	36,276	36,371
Unemployed .....	2,231	2,230	2,134	2,208	2,227	2,166	2,177	2,201	2,180	2,237	2,223	2,150	2,324
Unemployment rate .....	5.9	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5	5.9
Not in labor force .....	38,132	37,843	38,029	37,906	37,902	38,043	37,903	37,834	38,187	38,110	38,188	37,887	37,714
<b>Both sexes, 18-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,768	16,760	16,750	16,741	16,734	16,725	16,717	16,709	16,700	16,692	16,684	16,577	15,665
Civilian noninstitutional population <sup>1</sup> .....	16,455	16,446	16,436	16,429	16,422	16,400	16,391	16,404	16,397	16,389	16,381	16,387	16,377
Civilian labor force .....	9,724	9,594	9,624	9,595	9,617	9,665	9,613	9,628	9,523	9,426	9,537	9,181	9,230
Percent of civilian population .....	59.1	58.3	58.6	58.4	58.6	58.9	58.6	58.7	58.1	57.5	58.2	57.9	56.4
Employed .....	8,196	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031	7,705
Percent of total population .....	48.9	47.9	48.2	48.0	48.0	48.7	48.2	48.7	47.6	47.0	48.4	48.2	46.2
Agriculture .....	413	400	424	367	393	354	380	375	335	368	362	355	341
Nonagricultural industries .....	7,783	7,632	7,643	7,672	7,634	7,794	7,684	7,763	7,618	7,471	7,720	7,676	7,364
Unemployed .....	1,528	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450	1,525
Unemployment rate .....	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5
Not in labor force .....	6,731	6,852	6,812	6,834	6,805	6,735	6,778	6,776	6,874	6,963	6,844	6,905	7,147

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

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Full- and part-time employment status	1978					1979								
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	
<b>FULL TIME</b>														
Total, 16 years and over:														
Civilian labor force	86,030	85,839	85,135	86,391	86,631	87,025	87,373	87,567	87,430	87,300	87,637	87,700	87,596	
Employed	81,389	81,247	81,680	81,900	82,034	82,525	82,789	83,067	82,774	82,792	83,180	83,077	82,822	
Unemployed	4,641	4,652	4,505	4,491	4,597	4,500	4,584	4,499	4,655	4,508	4,458	4,624	4,774	
Unemployment rate	5.4	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3	5.4	
<b>PART TIME</b>														
Total, 16 years and over:														
Civilian labor force	14,720	14,952	14,996	15,150	15,205	15,196	15,213	15,097	14,701	14,954	14,865	15,394	15,585	
Employed	13,436	13,635	13,642	13,800	13,802	13,810	13,907	13,706	13,410	13,517	13,586	14,128	14,221	
Unemployed	1,284	1,317	1,354	1,350	1,403	1,385	1,306	1,391	1,291	1,437	1,278	1,256	1,364	
Unemployment rate	8.7	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2	8.8	

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

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

[Numbers in thousands]

Characteristics	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>WHITE</b>													
Total, 16 years and over:													
Civilian labor force	88,655	88,862	89,067	89,468	89,747	90,093	90,395	90,415	89,923	90,018	90,279	90,554	90,662
Employed	84,060	84,250	84,565	85,013	85,125	85,543	85,941	85,938	85,479	85,515	85,871	86,093	85,829
Unemployed	4,595	4,612	4,502	4,455	4,622	4,550	4,473	4,477	4,444	4,503	4,409	4,460	4,832
Unemployment rate	5.2	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9	5.3
Males, 20 years and over:													
Civilian labor force	47,707	47,684	47,791	48,103	48,202	48,466	48,639	48,527	48,411	48,401	48,535	48,617	48,573
Employed	45,996	45,968	46,098	46,477	46,492	46,737	47,006	46,877	46,755	46,792	46,883	46,855	46,736
Unemployed	1,711	1,716	1,693	1,626	1,710	1,729	1,633	1,650	1,657	1,609	1,652	1,752	1,837
Unemployment rate	3.6	3.6	3.5	3.4	3.5	3.6	3.4	3.4	3.4	3.3	3.4	3.6	3.8
Females, 20 years and over:													
Civilian labor force	32,265	32,602	32,677	32,809	32,981	32,978	33,225	33,302	33,080	33,275	33,239	33,564	33,878
Employed	30,574	30,912	31,074	31,161	31,287	31,340	31,567	31,639	31,460	31,572	31,589	31,982	32,108
Unemployed	1,691	1,690	1,603	1,648	1,694	1,638	1,658	1,664	1,619	1,703	1,650	1,582	1,769
Unemployment rate	5.2	5.2	4.9	5.0	5.1	5.0	5.0	5.0	4.9	5.1	5.0	4.7	5.2
Both sexes, 16 to 19 years:													
Civilian labor force	8,683	8,576	8,599	8,556	8,564	8,649	8,531	8,586	8,432	8,342	8,505	8,373	8,211
Employed	7,490	7,370	7,393	7,375	7,386	7,466	7,368	7,422	7,264	7,151	7,398	7,257	6,985
Unemployed	1,193	1,206	1,206	1,181	1,218	1,183	1,163	1,164	1,168	1,191	1,107	1,116	1,226
Unemployment rate	13.7	14.1	14.0	13.8	14.2	13.7	13.6	13.6	13.9	14.3	13.0	13.3	14.9
<b>BLACK AND OTHER</b>													
Total, 16 years and over:													
Civilian labor force	11,994	12,034	12,122	12,163	12,153	12,077	12,228	12,251	12,175	12,176	12,272	12,364	12,340
Employed	10,616	10,721	10,749	10,746	10,758	10,725	10,775	10,873	10,734	10,767	10,883	11,025	10,987
Unemployed	1,378	1,363	1,373	1,417	1,395	1,352	1,452	1,374	1,442	1,409	1,389	1,338	1,353
Unemployment rate	11.5	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8	11.0
Males, 20 years and over:													
Civilian labor force	5,692	5,759	5,808	5,829	5,867	5,810	5,841	5,874	5,813	5,826	5,902	5,946	5,942
Employed	5,195	5,286	5,327	5,345	5,376	5,356	5,339	5,357	5,315	5,335	5,435	5,453	5,450
Unemployed	497	473	481	484	491	455	502	517	498	491	467	493	492
Unemployment rate	8.7	8.2	8.3	8.3	8.4	7.8	8.6	8.8	8.6	8.4	7.9	8.3	8.3
Females, 20 years and over:													
Civilian labor force	5,266	5,287	5,277	5,266	5,224	5,223	5,279	5,316	5,276	5,290	5,359	5,392	5,417
Employed	4,722	4,759	4,743	4,723	4,691	4,667	4,722	4,793	4,708	4,764	4,782	4,863	4,857
Unemployed	544	528	534	543	533	556	557	523	568	526	577	528	560
Unemployment rate	10.3	10.0	10.1	10.3	10.2	10.6	10.6	9.3	10.8	9.9	10.8	9.8	10.3
Both sexes, 16 to 19 years:													
Civilian labor force	1,036	1,038	1,037	1,068	1,062	1,044	1,107	1,061	1,086	1,059	1,011	1,026	980
Employed	699	676	679	678	691	703	714	727	711	668	667	709	679
Unemployed	337	362	358	390	371	341	393	334	375	391	344	317	301
Unemployment rate	32.5	34.9	34.5	36.5	34.9	32.7	35.5	31.5	34.5	36.9	34.0	30.9	30.7



**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[Unemployment rates]

Selected categories	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>CHARACTERISTICS</b>													
Total (all civilian workers) .....	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0
Males, 20 years and over .....	4.1	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1	4.2
Females, 20 years and over .....	5.9	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5	5.9
Both sexes, 16-19 years .....	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5
White .....	5.2	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9	5.3
Black and other .....	11.5	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8	11.0
Married men, spouse present .....	2.8	2.6	2.6	2.4	2.5	2.6	2.6	2.6	2.7	2.5	2.6	2.9	3.0
Married women, spouse present .....	5.6	5.5	5.3	5.5	5.6	5.3	5.1	5.1	5.2	5.2	5.2	4.8	5.4
Women who head families .....	8.0	8.0	7.5	7.7	7.7	7.8	8.3	8.3	8.4	8.9	9.1	8.1	7.9
Full-time workers .....	5.4	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3	5.4
Part-time workers .....	8.7	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2	8.8
Unemployed 15 weeks and over <sup>1</sup> .....	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.1	1.0	1.2
Labor force time lost <sup>2</sup> .....	6.5	6.4	6.2	6.2	6.2	6.2	6.2	6.1	6.5	6.3	6.3	6.4	6.5
<b>OCCUPATION</b>													
White-collar workers .....	3.5	3.5	3.3	3.2	3.5	3.3	3.4	3.4	3.3	3.2	3.4	3.2	3.6
Professional and technical .....	2.6	2.6	2.8	2.4	3.0	2.5	2.3	2.1	2.2	2.0	2.5	2.5	2.6
Managers and administrators, except farm .....	1.9	2.2	1.8	2.2	1.9	2.0	1.9	2.2	2.3	2.2	2.0	1.9	2.3
Sales workers .....	4.1	4.3	4.1	3.1	3.6	3.8	4.3	4.1	4.0	4.0	4.5	3.5	4.2
Clerical workers .....	4.9	4.7	4.2	4.5	4.6	4.6	4.7	4.9	4.5	4.6	4.6	4.4	5.0
Blue-collar workers .....	6.9	6.8	6.8	6.4	6.8	6.4	6.4	6.6	6.9	6.7	6.5	6.8	7.6
Craft and kindred workers .....	4.5	4.7	4.9	4.0	4.7	4.5	4.7	4.6	4.2	4.0	4.2	4.2	4.9
Operatives, except transport .....	8.8	8.1	7.6	7.5	7.7	7.6	7.6	7.7	8.6	8.3	7.7	8.3	9.3
Transport equipment operatives .....	5.6	5.2	4.8	4.2	5.3	4.9	5.0	5.2	6.0	5.4	5.5	5.2	6.8
Nonfarm laborers .....	9.7	10.5	11.0	11.6	11.0	9.4	9.3	10.3	10.5	11.1	10.3	10.9	11.5
Service workers .....	7.1	7.4	7.1	7.4	7.7	7.9	7.1	7.2	7.4	7.2	7.2	7.2	7.0
Farm workers .....	3.6	3.9	4.6	3.2	3.4	2.8	3.6	3.2	3.4	3.5	3.1	4.5	3.8
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	5.8	5.8	5.6	5.6	5.8	5.7	5.6	5.5	5.7	5.7	5.6	5.7	6.1
Construction .....	9.4	10.6	11.2	10.8	12.1	10.6	11.5	10.2	10.3	9.6	9.6	9.5	9.5
Manufacturing .....	5.6	5.3	5.1	5.1	5.0	5.0	4.8	5.2	5.4	5.4	5.3	5.8	6.2
Durable goods .....	5.4	4.8	4.6	4.6	4.4	4.4	4.1	4.3	4.6	4.4	4.8	5.5	5.7
Nondurable goods .....	5.8	6.1	6.0	5.8	6.0	5.9	5.8	6.4	6.5	7.0	6.2	6.2	6.9
Transportation .....	3.8	3.6	3.4	3.3	3.3	3.5	3.0	4.0	2.9	3.5	3.0	3.9	3.8
Wholesale and retail trade .....	6.5	6.7	6.7	6.5	6.8	6.5	6.6	6.2	6.6	6.4	6.8	6.2	6.6
Finance and service industries .....	5.2	5.1	4.6	5.0	5.1	5.1	4.8	4.7	4.8	5.0	4.7	4.9	5.4
Government workers .....	3.6	3.9	3.9	3.9	4.0	4.0	3.7	4.1	3.6	3.5	3.6	3.5	3.8
Agricultural wage and salary workers .....	8.7	8.7	9.5	7.9	7.7	7.2	8.9	7.7	8.6	9.3	7.7	10.4	9.9

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

as a percent of potentially available labor force hours.

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

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

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

[Numbers in thousands]

Weeks of unemployment	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>DURATION</b>													
Both sexes, 16 years and over:													
Less than 5 weeks .....	2,795	2,783	2,719	2,833	2,876	2,713	2,743	2,751	2,939	2,787	2,927	2,794	3,226
5 to 14 weeks .....	1,895	1,861	1,789	1,774	1,979	1,877	1,870	1,857	1,874	1,935	1,782	1,970	1,743
15 weeks and over .....	1,234	1,253	1,317	1,196	1,208	1,251	1,260	1,305	1,235	1,213	1,086	1,052	1,191
15 to 26 weeks .....	625	663	732	685	726	728	712	729	692	705	616	600	662
27 weeks and over .....	609	605	585	511	482	523	548	576	543	508	470	451	529
Average (mean) duration, in weeks .....	11.4	11.5	11.8	11.0	10.7	11.2	11.3	11.7	11.0	11.1	10.4	10.0	10.5
Median duration, in weeks .....	6.0	5.9	5.9	5.4	5.6	5.9	6.3	5.8	5.2	5.2	5.6	6.1	4.9
<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 .....	47.2	47.1	46.7	48.8	47.4	46.4	46.7	46.5	48.6	47.0	50.5	48.0	52.4
5 to 14 weeks .....	32.0	31.5	30.7	30.6	32.6	32.1	31.8	31.4	31.0	32.6	30.8	33.9	28.3
15 weeks and over .....	20.8	21.4	22.6	20.6	19.9	21.4	21.4	22.1	20.4	20.4	18.7	18.1	19.3
15 to 26 weeks .....	10.6	11.2	12.6	11.8	12.0	12.5	12.1	12.3	11.4	11.9	10.6	10.3	10.7
27 weeks and over .....	10.3	10.2	10.0	8.8	7.9	9.0	9.3	9.7	9.0	8.6	8.1	7.8	8.6

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

Sex and age	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>Total, 16 years and over.....</b>	5.9	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0
16 to 19 years .....	15.7	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5
16 to 17 years .....	18.6	19.2	19.2	19.3	20.2	18.4	18.4	18.9	19.1	19.2	16.7	17.1	18.1
18 to 19 years .....	13.5	14.0	14.0	14.0	13.8	13.6	14.6	13.1	14.3	15.2	14.1	14.4	15.5
20 to 24 years .....	9.0	9.3	8.6	9.0	9.3	8.6	8.6	8.8	8.5	8.9	8.9	9.0	9.3
25 years and over .....	4.1	4.0	3.9	3.8	3.9	3.9	3.9	3.9	4.0	3.8	3.8	3.9	4.1
25 to 54 years .....	4.3	4.1	4.2	4.0	4.2	4.2	4.1	4.1	4.2	4.0	4.0	4.0	4.3
55 years and over .....	3.0	3.3	3.0	2.9	2.9	2.9	3.0	3.1	3.1	3.2	2.9	3.2	3.2
<b>Males, 16 years and over.....</b>	5.0	5.1	5.1	5.0	5.1	5.1	5.0	5.0	5.1	4.9	4.7	5.0	5.2
16 to 19 years .....	14.8	15.5	16.1	15.9	16.7	16.1	16.5	16.0	16.2	16.1	14.1	14.9	16.0
16 to 17 years .....	17.7	19.1	19.9	20.1	20.7	19.1	19.2	19.9	18.0	19.0	15.8	15.2	17.3
18 to 19 years .....	12.5	12.6	13.2	12.7	13.6	13.5	14.7	13.2	14.2	14.1	13.5	14.9	15.3
20 to 24 years .....	8.8	8.6	8.5	8.5	8.9	8.4	8.2	8.4	7.8	8.0	8.0	8.8	8.9
25 years and over .....	3.3	3.3	3.3	3.1	3.2	3.2	3.2	3.2	3.3	3.1	3.1	3.3	3.5
25 to 54 years .....	3.5	3.4	3.4	3.2	3.4	3.3	3.2	3.3	3.4	3.1	3.1	3.3	3.6
55 years and over .....	2.9	3.0	2.8	2.5	2.6	2.8	2.8	2.8	3.0	2.9	3.1	3.4	3.2
<b>Females, 16 years and over.....</b>	7.1	7.1	6.8	6.9	6.9	6.7	6.7	6.7	6.9	7.0	6.9	6.6	7.0
16 to 19 years .....	16.8	17.1	16.3	16.5	16.3	15.3	15.7	14.8	16.8	17.7	16.6	15.8	17.1
16 to 17 years .....	19.7	19.4	18.4	18.3	19.6	17.5	17.4	17.8	20.2	19.3	17.7	19.2	18.9
18 to 19 years .....	14.6	15.6	14.8	15.5	14.1	13.6	14.4	13.0	14.4	16.4	14.8	13.8	15.8
20 to 24 years .....	9.2	10.1	8.7	9.6	9.7	8.9	9.1	9.4	9.4	9.9	9.9	9.3	9.9
25 years and over .....	5.2	4.9	4.9	4.9	5.0	5.0	4.9	4.8	4.9	5.0	4.8	4.7	5.0
25 to 54 years .....	5.6	5.2	5.2	5.2	5.3	5.4	5.3	5.2	5.2	5.2	5.3	5.0	5.4
55 years and over .....	3.2	3.8	3.3	3.5	3.3	3.1	3.3	3.6	3.1	3.7	2.7	2.9	3.3

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

[Numbers in thousands]

Reason for unemployment	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>NUMBER OF UNEMPLOYED</b>													
<b>Both sexes, 16 years and over:</b>													
Job losers .....	2,459	2,362	2,456	2,372	2,442	2,454	2,481	2,443	2,521	2,361	2,358	2,532	2,724
On layoff .....	700	693	644	746	715	753	792	789	846	710	796	793	960
Other job losers .....	1,759	1,679	1,812	1,626	1,727	1,701	1,689	1,652	1,675	1,652	1,562	1,739	1,765
Job leavers .....	840	849	812	825	871	927	829	863	847	951	867	838	894
Reentrants .....	1,743	1,930	1,721	1,754	1,937	1,692	1,756	1,788	1,790	1,762	1,738	1,737	1,798
New entrants .....	875	816	825	872	826	823	874	822	811	841	787	694	720
<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 .....	41.6	39.7	42.2	40.7	40.2	41.6	41.8	41.3	42.2	39.9	41.0	43.7	44.4
On layoff .....	11.8	11.5	11.1	12.8	11.8	12.8	13.3	13.3	14.2	12.0	13.8	13.7	15.6
Other job losers .....	29.7	28.2	31.2	27.9	28.4	28.9	28.4	27.9	28.1	27.9	27.2	30.0	28.8
Job leavers .....	14.2	14.3	14.0	14.2	14.3	15.7	14.0	14.6	14.2	16.1	15.1	14.4	14.6
Reentrants .....	29.5	32.4	29.6	30.1	31.9	28.7	29.6	30.2	30.0	29.8	30.2	29.9	29.3
New entrants .....	14.8	13.7	14.2	15.0	13.6	14.0	14.7	13.9	13.6	14.2	13.7	12.0	11.7
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.5	2.3	2.3	2.5	2.6
On layoff .....	.8	.8	.8	.8	.9	.9	.8	.8	.8	.9	.8	.8	.9
Other job losers .....	1.7	1.9	1.7	1.7	1.9	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7
Job leavers .....	.9	.8	.8	.9	.8	.8	.9	.8	.8	.8	.8	.7	.7

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>Total, 16 years and over</b> .....	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900
16 to 19 years .....	8,196	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031	7,705
16 to 17 years .....	3,370	3,293	3,308	3,276	3,300	3,354	3,372	3,323	3,280	3,177	3,269	3,233	3,037
18 to 19 years .....	4,814	4,749	4,773	4,783	4,730	4,835	4,731	4,803	4,711	4,661	4,738	4,732	4,620
20 to 24 years .....	13,626	13,666	13,773	13,701	13,760	13,859	13,992	13,959	13,375	13,803	13,829	13,922	13,814
25 years and over .....	72,761	73,332	73,530	73,976	74,070	74,299	74,641	74,703	74,284	74,666	74,832	75,298	75,242
25 to 54 years .....	58,750	59,191	59,329	59,630	59,781	59,903	60,193	60,329	60,069	60,298	60,502	61,039	61,012
55 years and over .....	14,114	14,124	14,137	14,340	14,327	14,394	14,452	14,382	14,220	14,295	14,297	14,229	14,349
<b>Males, 16 years and over</b> .....	55,580	55,594	55,754	56,096	56,072	56,449	56,549	56,559	56,267	56,352	56,638	56,595	56,316
16 to 19 years .....	4,365	4,307	4,306	4,271	4,234	4,316	4,218	4,295	4,211	4,195	4,339	4,276	4,088
16 to 17 years .....	1,310	1,775	1,751	1,734	1,744	1,795	1,779	1,788	1,783	1,739	1,765	1,735	1,622
18 to 19 years .....	2,562	2,549	2,558	2,559	2,494	2,541	2,455	2,519	2,458	2,436	2,518	2,491	2,441
20 to 24 years .....	7,378	7,378	7,432	7,478	7,443	7,541	7,585	7,516	7,641	7,474	7,543	7,398	7,468
25 years and over .....	43,807	43,950	44,026	44,340	44,411	44,589	44,772	44,711	44,442	44,684	44,725	44,791	44,712
25 to 54 years .....	35,087	35,237	35,261	35,481	35,560	35,709	35,845	35,880	35,716	35,863	35,927	36,030	35,909
55 years and over .....	8,719	8,711	8,760	8,867	8,872	8,896	8,901	8,841	8,713	8,789	8,755	8,751	8,804
<b>Females, 16 years and over</b> .....	39,143	39,416	39,487	39,655	39,783	39,851	40,098	40,283	39,907	39,966	40,116	40,515	40,585
16 to 19 years .....	3,831	3,725	3,761	3,768	3,793	3,832	3,846	3,843	3,742	3,643	3,743	3,755	3,617
16 to 17 years .....	1,560	1,518	1,557	1,542	1,556	1,559	1,593	1,535	1,497	1,438	1,504	1,498	1,415
18 to 19 years .....	2,252	2,200	2,215	2,224	2,236	2,294	2,276	2,284	2,253	2,225	2,220	2,241	2,179
20 to 24 years .....	6,248	6,288	6,341	6,223	6,317	6,318	6,407	6,444	6,334	6,329	6,286	6,423	6,346
25 years and over .....	28,954	29,382	29,504	29,636	29,659	29,710	29,869	29,993	29,841	29,982	30,107	30,507	30,530
25 to 54 years .....	23,663	23,954	24,068	24,149	24,221	24,194	24,348	24,449	24,353	24,435	24,576	25,009	25,103
55 years and over .....	5,395	5,413	5,377	5,473	5,455	5,498	5,551	5,541	5,507	5,506	5,542	5,478	5,544

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

[In thousands]

Sex and age	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>Total, 16 years and over</b> .....	5,940	5,964	5,836	5,877	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848	6,149
16 to 19 years .....	1,528	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450	1,525
16 to 17 years .....	772	783	786	781	834	755	758	775	772	753	655	666	670
18 to 19 years .....	751	773	775	778	759	758	807	724	788	835	779	794	849
20 to 24 years .....	1,343	1,399	1,298	1,361	1,406	1,310	1,316	1,355	1,305	1,348	1,344	1,379	1,422
25 years and over .....	3,088	3,025	3,015	2,351	3,015	3,049	2,998	3,008	3,063	2,978	2,963	3,050	3,220
25 to 54 years .....	2,660	2,553	2,569	2,514	2,615	2,607	2,566	2,574	2,602	2,509	2,546	2,540	2,754
55 years and over .....	436	478	438	428	424	435	449	462	448	471	432	472	480
<b>Males, 16 years and over</b> .....	2,937	2,965	2,971	2,923	3,044	3,026	2,989	3,001	3,001	2,910	2,808	2,997	3,081
16 to 19 years .....	756	793	826	810	849	826	835	821	814	805	712	748	781
16 to 17 years .....	389	418	436	436	455	424	423	443	392	408	331	311	340
18 to 19 years .....	367	367	390	371	391	397	424	383	408	399	394	435	441
20 to 24 years .....	708	696	693	699	730	693	674	687	647	653	655	723	727
25 years and over .....	1,506	1,495	1,505	1,413	1,469	1,493	1,459	1,481	1,538	1,406	1,436	1,538	1,607
25 to 54 years .....	1,256	1,228	1,237	1,188	1,249	1,231	1,202	1,235	1,254	1,156	1,164	1,231	1,326
55 years and over .....	257	265	253	230	235	258	257	253	270	259	277	310	291
<b>Females, 16 years and over</b> .....	3,003	2,999	2,865	2,954	2,968	2,857	2,891	2,870	2,936	3,019	2,966	2,852	3,068
16 to 19 years .....	772	769	731	746	741	691	714	669	756	782	743	702	744
16 to 17 years .....	383	365	350	345	379	331	335	332	380	345	324	355	330
18 to 19 years .....	384	406	385	407	368	361	383	341	380	436	385	359	408
20 to 24 years .....	635	703	605	662	676	618	642	668	658	695	688	656	695
25 years and over .....	1,582	1,530	1,510	1,538	1,546	1,555	1,539	1,527	1,526	1,572	1,527	1,512	1,613
25 to 54 years .....	1,404	1,325	1,332	1,326	1,366	1,376	1,364	1,340	1,349	1,352	1,382	1,309	1,427
55 years and over .....	179	213	185	198	189	177	192	208	179	211	155	163	189

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Selected categories	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
<b>CHARACTERISTICS</b>													
Total, 16 years and over .....	94,723	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900
Married men, spouse present .....	33,534	38,782	38,806	38,944	39,039	39,202	39,374	39,291	38,917	38,988	39,055	39,163	39,146
Married women, spouse present .....	21,737	22,133	22,194	22,274	22,297	22,410	22,632	22,700	22,355	22,490	22,580	22,890	22,777
<b>OCCUPATION</b>													
White-collar workers .....	47,325	47,550	47,713	47,888	48,040	48,275	49,001	49,133	49,160	49,104	49,165	49,573	49,615
Professional and technical .....	14,246	14,192	14,307	14,297	14,629	14,743	15,034	15,083	15,226	15,220	15,053	15,053	14,983
Managers and administrators, except farm .....	10,180	10,062	9,968	10,030	10,217	10,322	10,414	10,407	10,409	10,374	10,565	10,675	10,772
Sales workers .....	5,892	5,898	5,986	6,192	6,092	6,055	6,141	6,067	6,079	6,091	6,065	6,161	6,085
Clerical workers .....	17,007	17,408	17,452	17,369	17,102	17,154	17,412	17,577	17,446	17,418	17,481	17,673	17,774
Blue-collar workers .....	31,506	31,891	31,986	32,202	31,962	32,491	32,331	32,085	31,582	31,826	31,958	31,949	31,767
Craft and kindred workers .....	12,557	12,628	12,556	12,646	12,610	12,842	12,932	12,808	12,697	12,790	13,003	12,832	12,755
Operatives, except transport .....	10,741	10,981	11,178	11,177	10,887	11,047	10,953	11,060	10,651	10,664	10,759	10,853	10,880
Transport equipment operatives .....	3,429	3,573	3,581	3,640	3,640	3,678	3,618	3,565	3,550	3,667	3,596	3,610	3,571
Nonfarm laborers .....	4,779	4,709	4,671	4,739	4,825	4,924	4,829	4,652	4,684	4,706	4,600	4,652	4,561
Service workers .....	12,866	12,754	12,951	13,009	13,007	12,777	12,770	12,856	12,909	12,754	12,946	12,697	12,591
Farm workers .....	2,794	2,855	2,821	2,739	2,826	2,759	2,742	2,803	2,624	2,600	2,683	2,657	2,703
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,423	1,442	1,423	1,424	1,478	1,365	1,429	1,419	1,362	1,439	1,445	1,403	1,363
Self-employed workers .....	1,611	1,648	1,638	1,563	1,625	1,547	1,550	1,595	1,531	1,490	1,525	1,552	1,632
Unpaid family workers .....	319	307	323	293	318	293	348	324	282	270	293	294	310
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	84,508	84,786	85,363	85,578	85,579	86,169	86,346	86,592	86,195	86,129	86,309	86,277	86,227
Government .....	15,275	15,336	15,387	15,373	15,360	15,217	15,293	15,224	15,356	15,635	15,257	15,382	15,260
Private industries .....	69,233	69,450	69,976	70,205	70,219	70,952	71,053	71,368	70,839	70,494	71,051	70,895	70,967
Private households .....	1,368	1,361	1,315	1,335	1,316	1,245	1,334	1,255	1,160	1,177	1,236	1,217	1,205
Other industries .....	67,865	68,089	68,651	68,870	68,903	69,707	69,719	70,112	69,679	69,317	69,815	69,678	69,761
Self-employed workers .....	6,219	6,224	6,314	6,370	6,515	6,529	6,632	6,585	6,468	6,625	6,600	6,753	6,649
Unpaid family workers .....	449	470	453	455	460	478	456	443	471	466	482	529	443
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	86,350	86,329	86,511	86,653	87,046	87,490	87,592	87,955	86,345	87,727	87,843	89,074	89,154
Full-time schedules .....	71,205	71,085	71,318	71,394	71,787	72,209	72,250	72,623	71,554	72,476	72,230	73,138	73,222
Part-time for economic reasons .....	3,298	3,203	3,164	3,131	3,058	3,159	3,147	3,179	3,312	3,307	3,416	3,340	3,355
Usually work full-time .....	1,350	1,283	1,167	1,279	1,209	1,208	1,205	1,235	1,265	1,246	1,416	1,394	1,478
Usually work part-time .....	1,948	1,920	1,997	1,852	1,849	1,951	1,942	1,944	2,048	2,061	2,000	1,946	1,877
Part-time for noneconomic reasons .....	11,847	12,041	12,029	12,128	12,201	12,122	12,195	12,154	11,479	11,943	12,198	12,597	12,577

<sup>1</sup> Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial dispute.

**A-43. Employment status of male Vietnam-era veterans and nonveterans 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			
Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	Aug. 1978	Aug. 1979	
<b>VETERANS<sup>1</sup></b>										
Total, 20 years and over .....	8,352	8,551	7,923	8,165	7,540	7,826	383	339	4.8	4.2
20 to 24 years .....	736	530	684	488	598	455	86	33	12.6	6.8
25 to 39 years .....	6,892	7,157	6,635	6,934	6,356	6,650	279	284	4.2	4.1
25 to 29 years .....	2,297	1,916	2,177	1,839	2,034	1,737	143	102	6.6	5.5
30 to 34 years .....	3,428	3,624	3,341	3,512	3,236	3,367	105	145	3.1	4.1
35 to 39 years .....	1,167	1,617	1,117	1,583	1,086	1,546	31	37	2.8	2.3
40 years and over .....	724	864	604	743	586	721	18	22	3.0	3.0
<b>NONVETERANS<sup>2</sup></b>										
Total, 25 to 39 years .....	13,801	14,683	13,159	13,965	12,696	13,432	463	533	3.5	3.8
25 to 29 years .....	6,172	6,729	5,888	6,396	5,626	6,122	262	274	4.4	4.3
30 to 34 years .....	3,994	4,208	3,788	3,994	3,684	3,853	104	141	2.7	3.5
35 to 39 years .....	3,635	3,746	3,483	3,575	3,386	3,457	97	118	2.8	3.3

<sup>1</sup> Vietnam-era veterans are those who served between August 5, 1964 and May 1975.<sup>2</sup> Nonveterans are males who have never served in the Armed Forces. Published data are limited to those 25-39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

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



# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>p</sup>	Aug. 1979 <sup>b</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>p</sup>	Aug. 1979 <sup>b</sup>
-	<b>TOTAL</b> .....	85,923	86,134	89,603	88,708	88,714	-	-	-	-	-
-	<b>PRIVATE SECTOR</b> .....	70,994	71,375	73,840	73,641	73,777	58,119	58,437	60,410	60,163	60,239
-	<b>MINING</b> .....	900	902	947	952	968	682	681	711	712	724
10	<b>METAL MINING</b> .....	97.4	97.9	103.9	105.1	-	75.1	75.7	79.7	80.4	-
101	Iron ores .....	25.1	25.7	25.5	25.7	-	20.2	20.9	20.5	20.6	-
102	Copper ores .....	34.7	34.6	38.1	38.9	-	26.3	26.3	29.3	29.9	-
11, 12	<b>COAL MINING</b> .....	246.0	243.0	284.5	247.0	-	205.1	201.9	206.8	204.2	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	242.9	239.9	245.4	244.0	-	202.4	199.2	204.1	201.5	-
13	<b>OIL AND GAS EXTRACTION</b> .....	428.4	432.4	461.0	465.8	-	298.3	301.0	317.6	320.0	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	183.4	184.0	194.8	197.0	-	91.0	90.8	92.7	92.9	-
138	Oil and gas field services .....	245.0	248.4	266.2	268.8	-	207.3	210.2	224.9	227.1	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	128.2	128.2	133.6	134.4	-	103.0	102.6	106.8	107.4	-
142	Crushed and broken stone .....	45.3	45.2	47.3	47.1	-	38.3	38.3	40.0	39.7	-
144	Sand and gravel .....	39.3	39.5	41.5	42.3	-	-	-	-	-	-
147	Chemical and fertilizer minerals .....	23.5	23.3	24.1	24.2	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	4,572	4,633	4,808	4,919	4,952	3,673	3,737	3,873	3,891	4,008
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,300.6	1,312.8	1,342.5	1,371.2	-	1,022.8	1,036.9	1,048.9	1,080.4	-
152	Residential building construction .....	696.9	706.8	715.6	729.5	-	538.1	549.2	546.6	564.3	-
153	Operative builders .....	85.8	86.0	89.2	89.9	-	57.7	57.6	59.2	59.7	-
154	Nonresidential building construction .....	517.9	520.0	537.7	551.8	-	427.0	430.1	443.1	456.4	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	991.4	1,000.7	1,033.2	1,049.9	-	816.9	827.1	870.5	890.1	-
161	Highway and street construction .....	350.1	351.8	373.6	383.6	-	306.0	308.0	327.4	336.6	-
162	Heavy construction, except highway .....	641.3	648.9	659.6	666.3	-	510.9	519.1	543.1	553.5	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	2,279.5	2,319.3	2,432.7	2,497.9	-	1,833.5	1,872.7	1,953.5	2,010.5	-
171	Plumbing, heating, air conditioning .....	537.7	547.5	545.1	559.1	-	411.7	421.5	413.6	425.1	-
172	Painting, paper hanging, decorating .....	158.4	160.9	168.3	179.4	-	135.2	137.7	141.8	152.2	-
173	Electrical work .....	376.2	385.1	399.5	410.2	-	294.0	302.4	313.2	322.8	-
174	Masonry, stonework, and plastering .....	362.7	373.2	415.3	426.1	-	314.6	325.4	363.1	372.9	-
175	Carpentering and flooring .....	140.4	140.6	140.1	142.8	-	111.3	111.5	108.9	111.2	-
176	Roofing and sheet metal work .....	169.6	171.4	183.7	187.9	-	140.3	141.9	148.7	153.4	-
-	<b>MANUFACTURING</b> .....	20,240	20,462	21,062	20,775	20,815	14,476	14,673	15,113	14,805	14,819
24, 25, 32-39	<b>DURABLE GOODS</b> .....	12,111	12,162	12,773	12,605	12,510	8,648	8,684	9,149	8,957	8,837
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	8,129	8,300	8,289	8,170	8,305	5,828	5,989	5,964	5,848	5,982
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	769.1	773.5	781.6	774.1	778.2	661.0	664.3	669.3	662.7	665.4
241	Logging camps and logging contractors .....	94.1	94.1	98.5	101.3	-	77.4	77.4	82.5	85.3	-
242	Sawmills and planing mills .....	241.6	243.1	248.1	247.8	-	216.6	218.1	222.1	221.7	-
2421	Sawmills and planing mills, general .....	202.4	202.8	206.2	206.9	-	182.2	182.5	185.2	185.5	-
2426	Hardwood dimension and flooring .....	32.7	33.8	34.0	33.0	-	28.8	29.9	29.8	28.9	-
243	Millwork, plywood, and structural members .....	219.2	220.2	217.4	212.4	-	186.1	186.8	183.1	178.7	-
2431	Millwork .....	79.6	79.2	75.5	74.1	-	66.0	65.6	61.6	60.3	-
2434	Wood kitchen cabinets .....	49.1	49.7	50.9	49.1	-	41.1	41.8	42.8	41.5	-
2436	Hardwood veneer and plywood .....	25.7	26.3	26.1	25.2	-	23.0	23.5	23.3	22.4	-
2436	Softwood veneer and plywood .....	48.4	48.4	48.8	47.6	-	42.7	42.4	42.6	41.4	-
244	Wooden containers .....	44.0	44.1	44.5	43.8	-	38.8	38.9	39.2	38.8	-
245	Wood buildings and mobile homes .....	86.7	87.2	83.7	82.4	-	71.8	71.6	67.1	66.1	-
2451	Mobile homes .....	58.4	58.7	57.4	56.3	-	50.2	50.1	47.9	46.9	-
249	Miscellaneous wood products .....	83.5	84.8	89.4	86.4	-	70.3	71.5	75.3	72.1	-
25	<b>FURNITURE AND FIXTURES</b> .....	473.8	484.4	479.9	470.5	479.3	387.0	397.7	391.7	382.2	390.4
251	Household furniture .....	317.0	325.3	320.7	311.0	-	267.8	276.1	270.9	261.5	-
2511	Wood household furniture .....	141.6	144.3	143.6	137.2	-	124.6	127.6	126.9	120.8	-
2512	Upholstered household furniture .....	99.2	103.7	101.4	98.8	-	81.6	85.8	83.5	80.9	-
2514	Metal household furniture .....	27.9	27.9	28.8	27.9	-	22.2	22.2	23.0	22.0	-
2515	Mattresses and bedsprings .....	32.4	33.0	32.3	31.4	-	25.3	25.9	24.9	24.0	-
252	Office furniture .....	44.2	45.0	43.9	44.1	-	35.8	36.6	35.0	35.1	-
253	Public building and related furniture .....	24.8	24.6	24.2	23.8	-	18.8	18.7	18.4	18.0	-
254	Partitions and fixtures .....	61.8	63.1	66.2	66.4	-	46.7	48.0	50.3	50.3	-
259	Miscellaneous furniture and fixtures .....	26.0	26.4	24.9	25.2	-	17.9	18.3	17.1	17.3	-

See footnotes at end of table.







**ESTABLISHMENT DATA  
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
379	Miscellaneous transportation equipment .....	76.6	76.9	54.5	52.2	—	59.2	59.6	38.7	36.1	—
3792	Travel trailers and campers .....	52.1	51.7	30.2	28.5	—	42.1	41.8	22.4	20.9	—
38	<b>INSTRUMENTS AND RELATED PRODUCTS .....</b>	<b>658.4</b>	<b>662.3</b>	<b>702.6</b>	<b>698.7</b>	<b>700.4</b>	<b>403.0</b>	<b>405.4</b>	<b>430.5</b>	<b>425.6</b>	<b>427.2</b>
381	Engineering and scientific instruments .....	68.0	68.3	75.3	76.0	—	33.0	33.4	38.0	37.7	—
382	Measuring and controlling devices .....	217.7	217.9	232.1	231.2	—	138.6	138.4	149.3	148.2	—
3822	Environmental controls .....	49.7	48.0	48.6	47.5	—	34.6	32.8	34.0	33.7	—
3823	Process control instruments .....	48.1	48.1	51.0	50.8	—	25.3	25.3	27.2	26.8	—
3825	Instruments to measure electricity .....	84.2	85.9	93.5	93.5	—	53.7	55.0	59.9	59.3	—
383	Optical instruments and lenses .....	27.9	28.1	31.3	31.4	—	15.8	15.6	17.6	17.8	—
384	Medical instruments and supplies .....	140.8	143.0	154.7	152.7	—	93.7	95.2	102.7	100.6	—
3841	Surgical and medical instruments .....	56.7	58.5	64.0	62.6	—	37.7	39.1	42.2	40.7	—
3842	Surgical appliances and supplies .....	65.7	66.3	71.5	71.4	—	44.0	44.3	47.8	47.6	—
385	Ophthalmic goods .....	41.3	41.7	42.1	40.4	—	30.1	30.7	31.1	29.6	—
386	Photographic equipment and supplies .....	133.9	133.9	139.3	139.9	—	69.7	69.5	70.4	70.7	—
387	Watches, clocks, and watchcases .....	28.8	29.4	27.8	27.1	—	22.1	22.6	21.4	21.0	—
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES .....</b>	<b>441.2</b>	<b>461.4</b>	<b>455.1</b>	<b>435.2</b>	<b>460.0</b>	<b>335.1</b>	<b>354.2</b>	<b>348.3</b>	<b>330.1</b>	<b>354.8</b>
391	Jewelry, silverware, and plated ware .....	57.1	63.0	56.8	54.4	—	41.2	46.9	41.7	39.4	—
3911	Jewelry, precious metal .....	37.0	40.5	35.2	33.2	—	26.3	29.9	25.4	24.0	—
393	Musical instruments .....	24.1	25.5	24.4	23.7	—	19.6	20.9	20.0	19.2	—
394	Toys and sporting goods .....	118.1	119.6	116.7	112.0	—	91.3	92.9	90.2	85.9	—
3942, 4	Dolls, games, toys, and children's vehicles .....	55.4	59.8	56.2	53.0	—	41.7	46.0	42.0	39.4	—
3949	Sporting and athletic goods, nec .....	62.7	59.8	60.5	59.0	—	49.6	46.9	48.2	46.5	—
395	Pens, pencils, office and art supplies .....	34.7	34.8	36.2	35.9	—	24.8	25.1	26.1	25.9	—
396	Costume jewelry and notions .....	59.9	68.7	70.6	61.1	—	47.6	55.6	57.0	48.8	—
3961	Costume jewelry .....	31.6	38.3	40.0	31.5	—	25.3	31.2	32.5	25.0	—
399	Miscellaneous manufactures .....	147.3	149.8	150.4	148.1	—	110.6	112.8	113.3	110.9	—
3993	Signs and advertising displays .....	52.9	53.6	55.6	55.0	—	38.3	38.7	40.3	39.8	—
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS .....</b>	<b>1,720.5</b>	<b>1,787.1</b>	<b>1,692.5</b>	<b>1,706.5</b>	<b>1,771.9</b>	<b>1,165.8</b>	<b>1,231.8</b>	<b>1,149.9</b>	<b>1,164.5</b>	<b>1,226.4</b>
201	Meat products .....	359.8	361.8	366.9	370.7	—	297.1	299.3	306.1	310.6	—
2011	Meat packing plants .....	170.1	171.5	165.4	166.6	—	136.7	138.3	134.0	135.8	—
2013	Sausages and other prepared meats .....	69.5	69.7	67.5	67.5	—	50.9	51.1	49.8	49.8	—
2016	Poultry dressing plants .....	106.2	106.8	118.7	121.4	—	97.1	97.7	109.0	111.8	—
202	Dairy products .....	194.7	194.9	195.2	196.1	—	103.5	103.6	104.0	104.6	—
2022	Cheese, natural and processed .....	32.5	32.3	32.9	33.2	—	25.4	25.3	25.7	25.6	—
2026	Fluid milk .....	123.2	123.6	122.7	123.0	—	53.9	54.1	53.1	53.5	—
203	Preserved fruits and vegetables .....	236.1	291.5	206.8	218.5	—	193.0	248.0	166.8	177.5	—
2032	Canned specialties .....	27.0	28.2	25.9	26.2	—	18.0	20.0	17.8	17.9	—
2033	Canned fruits and vegetables .....	98.0	146.5	69.7	83.3	—	81.8	130.4	55.9	69.0	—
2037	Frozen fruits and vegetables .....	37.2	37.5	41.5	37.3	—	31.9	32.1	36.4	32.5	—
204	Grain mill products .....	143.5	145.4	145.3	145.5	—	96.1	97.8	98.8	99.4	—
2041	Flour and other grain mill products .....	24.6	24.6	25.2	25.3	—	15.4	15.4	15.8	16.2	—
2048	Prepared feeds, nec .....	62.1	62.4	62.5	62.8	—	39.1	39.4	40.1	40.4	—
205	Bakery products .....	229.3	229.2	229.1	228.4	—	133.7	133.9	134.2	134.2	—
2051	Bread, cake, and related products .....	189.7	189.2	189.1	188.8	—	102.4	102.2	103.0	103.2	—
2052	Cookies and crackers .....	39.6	40.0	40.0	39.6	—	31.3	31.7	31.2	31.0	—
206	Sugar and confectionery products .....	98.6	104.0	99.3	97.5	—	73.7	78.7	73.9	73.0	—
2061-3	Cane and beet sugar .....	27.5	28.6	26.7	24.7	—	19.1	20.1	18.4	17.0	—
2065	Confectionery products .....	51.9	55.3	52.4	52.3	—	40.9	44.1	41.2	41.3	—
207	Fats and oils .....	40.6	40.8	38.5	37.9	—	29.1	29.1	27.5	27.2	—
208	Beverages .....	240.4	238.5	234.3	234.8	—	111.6	111.2	108.8	108.5	—
2082	Malt beverages .....	52.3	51.8	49.9	50.5	—	35.6	35.0	34.7	35.1	—
2086	Bottled and canned soft drinks .....	146.0	143.9	144.7	145.2	—	52.7	52.4	51.5	51.4	—
209	Misc. foods and kindred products .....	177.5	181.0	177.1	177.1	—	128.0	130.2	129.8	129.5	—
21	<b>TOBACCO MANUFACTURES .....</b>	<b>67.4</b>	<b>74.9</b>	<b>66.2</b>	<b>66.1</b>	<b>71.6</b>	<b>52.5</b>	<b>59.6</b>	<b>52.0</b>	<b>51.9</b>	<b>57.6</b>
211	Cigarettes .....	49.6	49.6	49.4	49.8	—	38.4	38.3	38.5	38.8	—
22	<b>TEXTILE MILL PRODUCTS .....</b>	<b>893.3</b>	<b>910.5</b>	<b>911.0</b>	<b>885.5</b>	<b>901.7</b>	<b>775.7</b>	<b>792.3</b>	<b>794.2</b>	<b>770.2</b>	<b>785.1</b>
221	Weaving mills, cotton .....	149.0	151.5	155.2	153.4	—	133.5	136.0	140.0	138.2	—
222	Weaving mills, synthetics .....	119.6	120.2	121.0	118.4	—	106.7	107.3	108.3	105.9	—
223	Weaving and finishing mills, wool .....	20.0	20.7	21.3	20.0	—	16.6	17.3	17.8	16.6	—
224	Narrow fabric mills .....	25.5	26.0	26.7	23.5	—	22.3	22.6	23.4	20.4	—
226	Knitting mills .....	239.6	246.7	238.7	231.9	—	207.0	213.5	206.7	200.5	—
2261	Women's hosiery, except socks .....	28.5	29.9	31.6	31.1	—	25.3	26.6	28.3	27.9	—
2262	Hosiery, nec .....	35.6	35.9	35.8	35.0	—	32.4	32.5	32.7	31.9	—
2263	Knit outerwear mills .....	76.2	79.7	72.2	69.1	—	65.0	68.4	62.0	59.3	—
2264	Knit underwear mills .....	37.5	37.9	37.1	35.4	—	32.3	32.6	32.0	30.6	—

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>				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>											
2885	Cyclic crudes and intermediates . . . . .	35.5	35.8	36.4	36.7	-	22.1	22.1	23.0	23.1	-
2861,9	Gum, wood, and industrial organic chemicals, nec . . . . .	130.1	128.9	128.5	128.3	-	63.6	62.6	62.7	62.4	-
287	Agricultural chemicals . . . . .	68.7	67.9	73.0	71.3	-	42.5	41.7	46.9	44.9	-
289	Miscellaneous chemical products . . . . .	89.2	88.8	89.8	89.2	-	51.1	50.4	51.0	50.4	-
<b>PETROLEUM AND COAL PRODUCTS . . . . .</b>											
29	Petroleum refining . . . . .	213.7	214.0	217.1	218.2	218.6	140.1	140.8	143.3	143.8	146.6
291	Paving and roofing materials . . . . .	165.7	165.0	167.5	168.7	-	104.1	104.0	106.1	106.7	-
295		36.2	37.1	37.2	37.0	-	28.6	29.2	29.5	29.3	-
<b>RUBBER AND MISC. PLASTICS PRODUCTS . . . . .</b>											
30	Tires and inner tubes . . . . .	740.0	750.2	775.0	760.8	758.4	577.8	587.3	608.9	594.2	593.4
301	Rubber and plastics footwear . . . . .	124.5	126.6	121.2	119.5	-	90.1	92.1	87.0	85.5	-
302	Reclaimed rubber, and rubber and plastics hose and belting . . . . .	21.5	23.7	22.7	20.7	-	18.7	20.8	19.8	18.0	-
303,4	Fabricated rubber products, nec . . . . .	22.8	22.7	22.6	22.1	-	16.9	17.0	17.2	16.6	-
306	Miscellaneous plastics products . . . . .	111.9	112.7	115.5	115.1	-	87.6	88.3	91.3	90.5	-
307		459.3	464.5	493.0	483.4	-	364.5	369.1	393.6	383.6	-
<b>LEATHER AND LEATHER PRODUCTS . . . . .</b>											
31	Leather tanning and finishing . . . . .	238.4	254.2	246.0	215.9	235.6	204.2	218.9	210.2	183.2	202.3
311	Footwear, except rubber . . . . .	21.6	22.5	20.5	19.2	-	18.4	19.1	17.3	16.1	-
314	Men's footwear, except athletic . . . . .	148.8	158.1	152.1	128.5	-	130.0	138.5	131.3	110.6	-
3143	Women's footwear, except athletic . . . . .	59.1	62.6	60.3	51.0	-	52.2	55.2	52.6	44.2	-
3144	Luggage . . . . .	59.9	63.5	62.2	50.1	-	52.1	55.6	53.5	43.2	-
316	Handbags and personal leather goods . . . . .	15.9	17.8	18.0	17.3	-	12.0	14.0	14.2	13.6	-
317		29.0	31.1	31.1	28.9	-	24.0	26.1	26.5	24.4	-
<b>TRANSPORTATION AND PUBLIC UTILITIES . . . . .</b>											
-	RAILROAD TRANSPORTATION . . . . .	4,856	4,870	5,126	5,105	5,091	4,079	4,086	4,299	4,278	4,266
40	Class I railroads <sup>2</sup> . . . . .	523.1	526.0	359.5	558.4	-	-	-	-	-	-
4011		486.3	489.1	514.2	513.2	-	-	-	-	-	-
<b>LOCAL AND INTERURBAN PASSENGER TRANSIT . . . . .</b>											
41	Local and suburban transportation . . . . .	225.1	223.5	260.0	226.0	-	205.4	203.2	239.7	206.2	-
411	Taxicabs . . . . .	73.6	71.8	73.5	73.4	-	68.2	66.3	68.1	68.3	-
412	Intercity highway transportation . . . . .	66.1	66.1	66.2	65.2	-	-	-	-	-	-
413	School buses . . . . .	40.2	40.0	39.0	40.8	-	37.1	36.9	36.0	37.8	-
415		31.8	31.8	66.4	33.0	-	-	-	-	-	-
<b>TRUCKING AND WAREHOUSING . . . . .</b>											
42	Trucking and trucking terminals . . . . .	1,274.5	1,282.4	1,399.2	1,333.3	-	1,129.9	1,136.7	1,186.4	1,178.6	-
421,3	Public warehousing . . . . .	1,189.9	1,197.0	1,257.0	1,250.5	-	1,056.6	1,062.8	1,116.1	1,107.8	-
422		84.6	85.4	82.2	82.8	-	73.3	73.9	70.3	70.8	-
<b>WATER TRANSPORTATION . . . . .</b>											
44	Transportation by air . . . . .	206.4	207.5	225.9	230.2	-	-	-	-	-	-
45	Air transportation . . . . .	400.8	396.1	414.5	416.1	-	-	-	-	-	-
451,2		356.4	351.6	365.8	367.0	-	-	-	-	-	-
<b>PIPE LINES, EXCEPT NATURAL GAS . . . . .</b>											
46	Transportation services . . . . .	19.7	19.9	19.4	19.6	-	14.5	14.5	13.9	14.1	-
<b>COMMUNICATION . . . . .</b>											
47	Telephone communication . . . . .	169.3	170.5	184.2	186.0	-	-	-	-	-	-
48	Radio and television broadcasting . . . . .	1,245.1	1,252.3	1,306.1	1,311.5	-	943.8	949.3	986.1	991.2	-
481		1,003.5	1,008.7	1,052.3	1,057.3	-	747.5	751.3	777.4	781.7	-
483		177.4	179.0	185.9	186.2	-	139.9	141.4	149.3	149.8	-
<b>ELECTRIC, GAS, AND SANITARY SERVICES . . . . .</b>											
49	Electric services . . . . .	791.6	791.8	817.1	823.4	-	649.2	648.6	666.2	673.0	-
491	Gas production and distribution . . . . .	362.5	362.7	379.4	382.2	-	293.0	293.4	306.5	309.4	-
492	Combination utility services . . . . .	165.0	164.8	167.1	168.7	-	135.8	135.4	136.6	138.4	-
493	Sanitary services . . . . .	193.8	193.7	195.6	196.9	-	159.6	158.9	158.3	159.8	-
495		44.7	44.9	47.9	48.1	-	39.5	39.5	42.4	42.7	-
<b>WHOLESALE AND RETAIL TRADE . . . . .</b>											
-	WHOLESALE TRADE . . . . .	19,469	19,519	20,071	19,960	19,991	17,154	17,202	17,654	17,540	17,570
50,51	WHOLESALE TRADE - DURABLE GOODS . . . . .	4,930	4,930	5,128	5,119	5,125	4,068	4,070	4,222	4,209	4,210
50	Motor vehicles and automotive equipment . . . . .	2,874	2,884	3,039	3,040	-	2,369	2,377	2,500	2,499	-
501	Furniture and home furnishing . . . . .	422.5	422.9	441.4	436.9	-	347.9	348.1	360.9	357.0	-
502	Lumber and construction materials . . . . .	98.6	99.1	102.0	102.0	-	79.9	80.2	83.2	82.9	-
503	Sporting goods, toys, and hobby goods . . . . .	179.2	178.8	185.3	186.0	-	149.8	150.1	155.2	156.1	-
504	Metals and minerals, except petroleum . . . . .	63.9	62.0	61.5	61.7	-	53.2	51.7	50.6	50.7	-
505	Electrical goods . . . . .	139.1	140.1	150.2	150.4	-	113.4	113.7	122.4	122.4	-
506	Hardware, plumbing, and heating equipment . . . . .	395.4	398.4	421.4	421.3	-	326.2	328.6	345.6	344.6	-
507		233.4	235.0	243.8	245.2	-	193.6	195.5	202.4	203.4	-

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>					
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	
	<b>WHOLESALE TRADE-DURABLE GOODS—</b>											
	Continued											
508	Machinery, equipment, and supplies .....	1, 150. 6	1, 154. 5	1, 227. 4	1, 231. 7	-	944. 3	947. 2	1, 004. 3	1, 008. 7	-	-
509	Miscellaneous durable goods .....	191. 7	192. 7	206. 4	204. 7	-	161. 0	161. 9	174. 9	173. 0	-	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	2, 056	2, 046	2, 089	2, 079	-	1, 699	1, 693	1, 722	1, 710	-	-
511	Paper and paper products .....	132. 2	132. 6	138. 6	139. 3	-	107. 4	107. 5	112. 3	112. 7	-	-
512	Drugs, proprietaries, and sundries .....	135. 1	136. 2	140. 0	138. 4	-	115. 3	116. 4	120. 3	119. 1	-	-
513	Apparel, piece goods, and notions .....	157. 5	159. 6	163. 0	162. 7	-	125. 2	127. 0	129. 4	128. 9	-	-
514	Groceries and related products .....	635. 5	618. 7	632. 6	632. 2	-	551. 1	539. 9	548. 5	547. 2	-	-
516	Chemical and allied products .....	118. 6	118. 5	119. 6	119. 0	-	84. 8	84. 9	87. 0	86. 7	-	-
517	Petroleum and petroleum products .....	228. 3	227. 8	223. 0	219. 8	-	175. 2	174. 4	164. 2	160. 4	-	-
518	Beer, wine, and distilled beverages .....	134. 5	133. 8	141. 8	142. 9	-	114. 8	114. 0	120. 5	121. 6	-	-
519	Miscellaneous nondurable goods .....	366. 0	365. 3	375. 4	373. 4	-	303. 9	302. 7	311. 9	309. 3	-	-
52-59	<b>RETAIL TRADE</b> .....	14, 539	14, 589	14, 943	14, 841	14, 866	13, 086	13, 132	13, 432	13, 331	13, 360	-
52	<b>BUILDING MATERIALS AND GARDEN</b>											
	SUPPLIES .....	601. 6	600. 6	617. 8	614. 8	-	514. 8	514. 1	529. 1	525. 2	-	-
521	Lumber and other building materials .....	325. 8	326. 9	331. 3	333. 2	-	281. 6	282. 5	284. 9	286. 4	-	-
525	Hardware stores .....	144. 4	142. 5	148. 9	148. 1	-	123. 4	121. 6	128. 8	127. 7	-	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	2, 280. 5	2, 274. 4	2, 221. 2	2, 215. 1	-	2, 124. 6	2, 117. 7	2, 064. 9	2, 058. 1	-	-
531	Department stores .....	1, 849. 5	1, 839. 7	1, 776. 5	1, 770. 3	-	1, 734. 5	1, 724. 4	1, 662. 3	1, 656. 4	-	-
533	Variety stores .....	285. 8	287. 6	284. 0	283. 0	-	266. 1	267. 6	262. 5	260. 9	-	-
539	Misc. general merchandise stores .....	145. 1	147. 1	160. 7	161. 8	-	124. 0	125. 7	140. 1	140. 8	-	-
54	<b>FOOD STORES</b> .....	2, 184. 3	2, 192. 4	2, 272. 1	2, 274. 3	-	2, 014. 7	2, 022. 0	2, 095. 2	2, 098. 3	-	-
541	Grocery stores .....	1, 925. 4	1, 935. 1	2, 009. 9	2, 019. 0	-	1, 779. 6	1, 788. 3	1, 856. 2	1, 865. 5	-	-
542	Meat markets and freezer provisioners .....	45. 9	45. 5	48. 4	46. 9	-	-	-	-	-	-	-
546	Retail bakeries .....	114. 4	114. 5	120. 2	117. 6	-	104. 4	104. 8	110. 3	108. 0	-	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>											
	STATIONS .....	1, 881. 8	1, 875. 1	1, 835. 1	1, 798. 3	-	1, 617. 5	1, 609. 6	1, 566. 2	1, 529. 1	-	-
551,2	New and used car dealers .....	890. 1	891. 1	899. 1	881. 9	-	743. 7	744. 8	747. 0	731. 7	-	-
553	Auto and home supply stores .....	256. 7	254. 9	259. 3	256. 6	-	225. 0	222. 4	228. 2	224. 7	-	-
554	Gasoline service stations .....	652. 9	649. 4	590. 0	572. 1	-	578. 9	574. 6	516. 8	497. 6	-	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	852. 6	858. 3	889. 2	872. 2	-	735. 6	741. 6	766. 3	749. 1	-	-
561	Man's and boys' clothing and furnishings .....	137. 4	137. 2	141. 0	138. 7	-	117. 1	117. 1	120. 4	118. 1	-	-
562	Women's ready-to-wear stores .....	314. 1	314. 8	327. 8	320. 6	-	272. 8	273. 9	285. 8	278. 3	-	-
565	Family clothing stores .....	153. 3	157. 1	160. 0	158. 9	-	135. 7	139. 6	140. 7	139. 4	-	-
566	Shoe stores .....	164. 9	166. 5	175. 7	171. 2	-	137. 4	138. 6	145. 7	141. 5	-	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>											
	STORES .....	584. 0	586. 6	603. 4	603. 2	-	483. 8	486. 0	498. 7	498. 8	-	-
571	Furniture and home furnishings .....	354. 0	354. 4	356. 7	356. 2	-	298. 2	298. 1	299. 5	299. 5	-	-
572	Household appliance stores .....	87. 7	87. 8	92. 0	93. 5	-	74. 4	74. 6	78. 2	79. 9	-	-
573	Radio, television, and music stores .....	142. 3	144. 4	154. 7	153. 5	-	111. 2	113. 3	121. 0	119. 4	-	-
58	<b>EATING AND DRINKING PLACES</b> .....	4, 412. 5	4, 457. 5	4, 696. 7	4, 670. 0	-	4, 064. 4	4, 109. 3	4, 322. 1	4, 294. 1	-	-
59	<b>MISCELLANEOUS RETAIL</b> .....	1, 741. 7	1, 744. 0	1, 807. 8	1, 792. 6	-	1, 530. 7	1, 531. 7	1, 589. 7	1, 578. 1	-	-
591	Drug stores and proprietary stores .....	499. 7	500. 1	523. 6	524. 9	-	455. 2	455. 2	476. 7	478. 8	-	-
592	Liquor stores .....	120. 8	120. 2	130. 7	131. 8	-	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	478. 6	482. 0	499. 7	496. 5	-	409. 3	412. 5	426. 4	423. 4	-	-
596	Nonstore retailers .....	269. 4	271. 6	254. 1	251. 6	-	250. 5	252. 9	237. 6	235. 6	-	-
598	Fuel and ice dealers .....	96. 4	96. 0	97. 9	96. 5	-	81. 0	80. 8	82. 7	81. 5	-	-
599	Retail stores, nec. ....	224. 5	221. 7	244. 8	236. 0	-	189. 3	185. 8	205. 8	199. 8	-	-
-	<b>FINANCE, INSURANCE, AND REAL</b>											
	ESTATE ? .....	4, 746	4, 754	4, 936	4, 966	4, 988	3, 618	3, 622	3, 764	3, 789	3, 801	-
60	<b>BANKING</b> .....	1, 433. 5	1, 439. 1	1, 490. 8	1, 499. 9	-	1, 121. 1	1, 125. 7	1, 156. 3	1, 164. 0	-	-
602	Commercial and stock savings banks .....	1, 307. 7	1, 313. 2	1, 360. 1	1, 367. 9	-	1, 018. 5	1, 023. 1	1, 049. 6	1, 056. 3	-	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	502. 1	504. 8	529. 2	532. 2	-	387. 2	388. 7	406. 7	409. 3	-	-
612	Savings and loan associations .....	216. 0	217. 1	232. 8	234. 1	-	169. 4	170. 1	180. 4	181. 6	-	-
614	Personal credit institutions .....	197. 5	198. 7	205. 5	206. 5	-	150. 3	150. 9	156. 8	157. 8	-	-
62	<b>SECURITY, COMMODITY BROKERS, AND</b>											
	SERVICES .....	190. 1	191. 2	203. 8	206. 4	-	-	-	-	-	-	-
621	Security brokers and dealers .....	156. 0	156. 9	166. 4	168. 2	-	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	1, 207. 0	1, 204. 0	1, 235. 2	1, 239. 8	-	843. 0	840. 4	868. 8	873. 3	-	-
631	Life insurance .....	527. 4	522. 7	527. 4	528. 5	-	315. 2	310. 9	315. 1	316. 2	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>B</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>D</sup>	Aug. 1979 <sup>B</sup>
	<b>INSURANCE CARRIERS—Continued</b>										
632	Medical service and health insurance .....	139.6	139.9	142.5	142.7	—	112.7	113.0	114.3	114.3	—
633	Fire, marine, and casualty insurance .....	466.1	467.9	490.3	493.2	—	354.3	356.3	377.8	380.7	—
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b> .....	394.9	398.5	414.1	415.2	—	—	—	—	—	—
65	<b>REAL ESTATE</b> .....	886.6	883.2	925.0	934.1	—	—	—	—	—	—
651	Real estate operators and lessors .....	442.6	440.1	452.4	458.6	—	—	—	—	—	—
653	Real estate agents and managers .....	300.5	300.8	318.5	322.2	—	—	—	—	—	—
655	Subdividers and developers .....	118.7	117.5	128.2	127.5	—	—	—	—	—	—
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b> .....	30.6	30.7	30.5	30.3	—	—	—	—	—	—
67	<b>HOLDING AND OTHER INVESTMENT OFFICES.</b> .....	101.5	102.1	107.2	108.2	—	—	—	—	—	—
—	<b>SERVICES</b> .....	16,213	16,235	16,890	16,964	16,972	14,438	14,436	14,996	15,058	15,051
70	<b>HOTELS AND OTHER LODGING PLACES</b> .....	1,073.9	1,075.5	1,055.1	1,106.3	—	—	—	—	—	—
701	Hotels, motels, and tourist courts .....	1,000.8	998.5	1,011.5	1,033.3	—	923.3	921.3	933.5	952.3	—
72	<b>PERSONAL SERVICES</b> .....	890.8	885.2	887.8	876.5	—	—	—	—	—	—
721	Laundry, cleaning, and garment services .....	353.8	350.9	352.2	348.5	—	316.1	313.8	314.3	310.8	—
723	Beauty shops .....	278.7	277.9	277.4	273.7	—	257.1	256.4	255.7	252.8	—
726	Funeral service and crematories .....	70.3	70.4	73.4	73.5	—	—	—	—	—	—
73	<b>BUSINESS SERVICES</b> .....	2,553.2	2,588.2	2,771.9	2,773.1	—	2,213.7	2,248.4	2,406.3	2,407.2	—
731	Advertising .....	143.7	144.2	151.8	152.9	—	105.5	106.0	112.1	113.1	—
732	Credit reporting and collection .....	87.1	86.2	86.5	87.2	—	—	—	—	—	—
733	Mailing, reproduction, stenographic .....	98.6	99.4	101.3	99.3	—	—	—	—	—	—
734	Services to buildings .....	457.3	461.2	499.4	496.7	—	410.7	414.4	451.6	448.2	—
736	Personnel supply services .....	402.9	409.3	445.6	450.7	—	—	—	—	—	—
737	Computer and data processing services .....	211.1	212.4	238.1	240.5	—	173.7	174.2	196.6	198.7	—
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	520.6	520.5	536.7	534.8	—	447.5	446.8	459.4	457.4	—
753	Automotive repair shops .....	324.2	322.7	328.3	329.0	—	277.6	275.7	279.5	280.3	—
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	244.0	243.0	259.5	258.7	—	209.0	207.7	221.2	221.6	—
78	<b>MOTION PICTURES</b> .....	234.1	240.4	224.9	230.4	—	208.0	211.3	201.8	207.4	—
781	Motion picture production and services .....	83.3	88.9	74.2	79.0	—	72.6	75.4	65.3	69.7	—
783	Motion picture theaters .....	140.7	141.3	140.6	141.4	—	—	—	—	—	—
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	797.3	793.2	791.4	799.3	—	732.6	727.3	719.8	729.8	—
80	<b>HEALTH SERVICES</b> .....	4,797.1	4,808.8	5,001.1	5,016.1	—	4,278.9	4,289.2	4,454.9	4,466.1	—
801	Offices of physicians .....	687.4	690.7	715.5	722.5	—	567.2	569.8	586.7	591.8	—
802	Offices of dentists .....	287.2	286.0	304.4	303.6	—	248.5	248.3	267.5	266.4	—
805	Nursing and personal care facilities .....	912.8	920.1	963.9	966.3	—	825.4	831.6	868.5	871.0	—
806	Hospitals .....	2,563.3	2,564.8	2,645.6	2,655.6	—	2,340.1	2,341.5	2,413.2	2,421.6	—
81	<b>LEGAL SERVICES</b> .....	433.0	434.8	461.6	464.2	—	375.1	375.9	396.6	398.6	—
82	<b>EDUCATIONAL SERVICES</b> .....	865.3	855.6	947.3	880.1	—	—	—	—	—	—
821	Elementary and secondary schools .....	197.5	194.5	226.5	201.5	—	—	—	—	—	—
822	Colleges and universities .....	571.3	564.2	615.8	576.5	—	—	—	—	—	—
83	<b>SOCIAL SERVICES</b> .....	996.2	997.4	1,018.3	1,071.5	—	—	—	—	—	—
86	<b>MEMBERSHIP ORGANIZATIONS</b> .....	1,539.8	1,527.3	1,591.5	1,600.7	—	—	—	—	—	—
89	<b>MISCELLANEOUS SERVICES</b> .....	868.7	874.3	930.2	941.4	—	721.2	726.4	773.5	782.7	—
891	Engineering and architectural services .....	476.2	479.2	507.7	513.4	—	404.0	407.1	431.3	437.3	—
893	Accounting, auditing, and bookkeeping .....	269.6	270.6	288.7	293.4	—	213.5	214.3	231.8	234.3	—
—	<b>GOVERNMENT<sup>*</sup></b> .....	14,929	14,759	15,763	15,067	14,937	—	—	—	—	—
—	<b>FEDERAL GOVERNMENT</b> .....	2,815	2,793	2,824	2,838	2,813	—	—	—	—	—
—	Executive .....	2,760.3	2,738.5	2,770.2	2,783.0	—	—	—	—	—	—
—	Department of Defense .....	927.1	918.6	906.6	908.5	—	—	—	—	—	—
—	Postal Service .....	647.5	649.0	663.2	665.4	—	—	—	—	—	—
—	Other executive agencies .....	1,185.7	1,170.9	1,200.4	1,209.1	—	—	—	—	—	—
—	Manufacturing activities .....	141.9	141.3	140.2	140.5	—	—	—	—	—	—
—	Shipbuilding .....	72.7	72.4	72.1	72.6	—	—	—	—	—	—

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>				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>p</sup>	Aug. 1979 <sup>p</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>p</sup>	Aug. 1979 <sup>p</sup>
	<b>Executive—Continued</b>										
-	Transportation and public utilities, except Postal Service .....	38.0	37.9	38.2	38.2	-	-	-	-	-	-
-	Services .....	399.3	398.7	385.9	390.2	-	-	-	-	-	
-	Hospitals .....	243.7	242.5	233.2	236.2	-	-	-	-	-	
-	Legislative .....	41.4	41.0	41.0	41.2	-	-	-	-	-	
-	Judicial .....	12.9	13.0	13.1	13.4	-	-	-	-	-	
-	<b>STATE AND LOCAL GOVERNMENT.....</b>	<b>12,114</b>	<b>11,966</b>	<b>12,939</b>	<b>12,229</b>	<b>12,124</b>	-	-	-	-	
-	State government .....	3,239.2	3,226.1	3,343.9	3,266.8	-	-	-	-	-	
-	Hospitals .....	556.7	552.3	562.9	563.8	-	-	-	-	-	
-	State education .....	1,133.1	1,126.3	1,249.2	1,165.3	-	-	-	-	-	
-	General administration including executive, legislative, and judicial functions .....	944.2	943.1	925.6	931.4	-	-	-	-	-	
-	Local government .....	8,875.2	8,740.0	9,594.6	8,962.6	-	-	-	-	-	
-	Transportation and public utilities .....	572.2	573.1	589.6	593.2	-	-	-	-	-	
-	Hospitals .....	516.2	517.0	530.7	533.6	-	-	-	-	-	
-	Local education .....	4,411.3	4,299.3	5,222.8	4,324.6	-	-	-	-	-	
-	General administration including executive, legislative, and judicial functions .....	2,990.4	2,970.2	2,863.0	3,030.9	-	-	-	-	-	

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

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

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

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

\* Not available.

<sup>p</sup> preliminary.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	May 1978	June 1978	Apr. 1979	May 1979	June 1979
-	<b>TOTAL</b> .....	35,058	35,239	36,423	36,651	36,768
-	<b>PRIVATE SECTOR</b> .....	27,624	27,947	28,911	29,148	29,414
-	<b>MINING</b> .....	73	76	85	87	90
10	<b>METAL MINING</b> .....	6.7	7.4	8.0	8.4	9.0
11, 12	<b>COAL MINING</b> .....	8.1	8.1	8.6	8.7	8.8
13	<b>OIL AND GAS EXTRACTION</b> .....	50.5	52.6	59.5	60.5	62.7
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	33.0	34.5	37.6	38.3	40.1
138	Oil and gas field services.....	17.5	18.1	21.9	22.2	22.6
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	7.8	8.1	8.9	9.0	9.5
142	Crushed and broken stone.....	2.5	2.6	2.8	2.9	3.0
144	Sand and gravel.....	2.3	2.5	2.9	2.9	3.1
-	<b>CONSTRUCTION</b> .....	328	338	353	361	374
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	120.1	123.6	126.2	128.3	132.3
152	Residential building construction.....	72.8	75.2	75.5	76.5	78.8
153	Operative builders.....	16.4	16.9	16.9	16.9	17.9
154	Nonresidential building construction.....	30.9	31.5	33.8	34.9	35.6
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	51.0	54.3	52.3	55.3	59.1
161	Highway and street construction.....	13.0	15.3	15.9	18.1	20.3
162	Heavy construction, except highway.....	38.0	39.0	36.4	37.2	38.8
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	157.1	160.4	174.3	177.2	182.8
171	Plumbing, heating, air conditioning.....	44.2	45.1	47.7	48.5	48.8
172	Painting, paper hanging, decorating.....	10.0	10.2	11.6	11.7	12.7
173	Electrical work.....	28.0	28.8	29.4	30.0	30.8
174	Masonry, stonework, and plastering.....	18.1	18.5	21.4	21.5	21.7
175	Carpentering and flooring.....	12.2	12.2	14.0	14.1	15.8
176	Roofing and sheet metal work.....	10.4	10.9	12.5	12.5	13.0
-	<b>MANUFACTURING</b> .....	6,117	6,217	6,336	6,372	6,463
24, 25, 32-39	<b>DURABLE GOODS</b> .....	2,835	2,880	3,030	3,048	3,090
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	3,282	3,337	3,306	3,324	3,373
	<b>DURABLE GOODS</b>					
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	106.4	108.6	111.9	113.1	114.6
241	Logging camps and logging contractors.....	4.9	5.2	5.1	5.1	5.5
242	Sawmills and planing mills.....	21.8	22.1	22.8	23.2	23.7
2421	Sawmills and planing mills, general.....	15.3	15.6	15.9	16.1	16.6
243	Millwork, plywood, and structural members.....	41.7	42.8	44.1	44.8	44.8
244	Wooden containers.....	6.9	7.4	7.5	7.4	7.7
245	Wood buildings and mobile homes.....	10.3	10.2	10.3	10.6	10.9
249	Miscellaneous wood products.....	20.8	20.9	22.1	22.0	22.0
25	<b>FURNITURE AND FIXTURES</b> .....	140.9	140.3	142.9	142.3	142.0
251	Household furniture.....	107.0	105.9	106.9	106.1	105.9
2511	Wood household furniture.....	44.5	45.0	44.8	45.1	45.3
2512	Upholstered household furniture.....	36.9	36.9	37.0	36.9	37.1
2515	Mattresses and bedsprings.....	8.6	8.6	8.8	8.6	8.6
252	Office furniture.....	9.6	9.8	10.5	10.7	10.6
253	Public building and related furniture.....	4.7	4.8	5.1	5.0	5.1
254	Partitions and fixtures.....	9.6	9.7	10.5	10.7	11.1
259	Miscellaneous furniture and fixtures.....	10.0	10.1	9.9	9.8	9.3
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	129.5	131.1	132.3	134.8	137.7
322	Glass and glassware, pressed or blown.....	47.7	47.9	44.3	45.2	46.1
3221	Glass containers.....	28.6	28.6	25.5	25.7	26.4
3229	Pressed and blown glass, nec.....	19.1	19.3	18.8	19.5	19.7
323	Products of purchased glass.....	11.1	11.6	13.1	13.4	13.9
324	Cement, hydraulic.....	1.6	1.7	1.6	1.6	1.7
325	Structural clay products.....	6.5	6.5	6.8	6.9	7.0
326	Pottery and related products.....	16.9	16.9	17.3	17.3	17.3
327	Concrete, gypsum, and plaster products.....	14.0	14.2	14.5	14.9	15.3
329	Misc. nonmetallic mineral products.....	28.7	29.2	31.7	32.3	33.1
33	<b>PRIMARY METAL INDUSTRIES</b> .....	116.8	119.9	132.0	133.1	136.4
331	Blast furnace and basic steel products.....	36.9	38.9	42.3	43.0	44.8
3312	Blast furnaces and steel mills.....	28.7	30.4	33.1	33.8	35.6
332	Iron and steel foundries.....	16.8	17.6	21.2	21.2	21.3



**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	May 1978	June 1978	Apr. 1979	May 1979	June 1979
<b>PRIMARY METAL INDUSTRIES —Continued</b>						
3321	Gray iron foundries .....	9.2	9.7	10.5	10.6	10.7
3322	Malleable iron foundries.....	1.5	1.6	1.8	1.8	1.8
3325	Steel foundries, nec .....	4.1	4.2	4.9	4.9	4.9
333	Primary nonferrous metals .....	4.3	4.5	4.7	4.6	5.0
3334	Primary aluminum .....	1.4	1.6	1.8	1.8	2.0
335	Nonferrous rolling and drawing .....	38.8	38.7	41.5	42.1	42.6
3351	Copper rolling and drawing .....	3.5	3.6	3.8	3.9	4.1
3353	Aluminum sheet, plate, and foil .....	4.5	4.6	4.6	4.7	4.9
3357	Nonferrous wire drawing and insulating .....	22.8	22.5	24.6	24.8	24.8
336	Nonferrous foundries .....	15.1	15.2	17.1	16.9	17.2
3361	Aluminum foundries .....	6.9	7.1	7.8	7.9	8.0
34	<b>FABRICATED METAL PRODUCTS .....</b>	<b>338.1</b>	<b>341.9</b>	<b>353.9</b>	<b>356.0</b>	<b>360.8</b>
341	Metal cans and shipping containers .....	13.1	13.3	13.7	13.5	13.7
3411	Metal cans .....	11.5	11.7	11.8	11.6	11.8
342	Cutlery, hand tools, and hardware .....	62.7	63.6	64.5	64.5	64.8
3423, 5	Hand and edge tools, and hand saws and blades .....	17.0	17.1	17.3	17.4	17.8
3429	Hardware, nec .....	38.7	39.4	40.0	39.9	39.8
343	Plumbing and heating, except electric .....	17.0	16.9	18.2	18.0	18.3
344	Fabricated structural metal products .....	67.9	69.1	69.8	71.1	72.4
3441	Fabricated structural metal .....	6.8	7.1	7.7	7.6	7.9
3442	Metal doors, sash, and trim .....	23.3	23.8	21.7	22.8	23.3
3443	Fabricated plate work (boiler shops) .....	14.8	14.9	16.1	16.2	16.3
3444	Sheet metal work .....	13.9	14.0	14.5	14.6	14.9
345	Screw machine products, bolts, etc. ....	22.4	22.7	25.5	25.7	25.9
3451	Screw machine products .....	11.7	11.7	13.2	13.3	13.4
3452	Bolts, nuts, rivets, and washers .....	10.7	11.0	12.3	12.4	12.5
346	Metal forgings and stampings .....	57.8	57.2	58.3	58.2	59.1
3462	Iron and steel forgings .....	4.0	3.6	4.6	4.7	4.8
3465	Automotive stampings .....	15.3	15.2	15.0	15.3	15.3
3469	Metal stampings, nec .....	36.2	36.1	36.5	36.1	36.8
347	Metal services, nec .....	24.2	25.1	24.5	24.6	24.8
3471	Plating and polishing .....	17.8	18.6	17.5	17.6	17.6
3479	Metal coating and allied services .....	6.4	6.5	7.0	7.0	7.2
348	Ordnance and accessories, nec .....	15.9	16.1	16.8	17.0	17.3
349	Misc. fabricated metal products .....	57.1	57.9	62.6	63.4	64.5
3494	Valves and pipe fittings .....	20.4	20.7	22.9	23.0	23.3
3496	Misc. fabricated wire products .....	12.6	12.7	13.8	14.2	14.5
35	<b>MACHINERY, EXCEPT ELECTRICAL .....</b>	<b>425.9</b>	<b>433.0</b>	<b>475.0</b>	<b>476.9</b>	<b>479.8</b>
351	Engines and turbines .....	21.9	21.9	25.0	25.2	24.8
3511	Turbines and turbine generator sets .....	5.9	6.1	6.0	6.0	6.0
3519	Internal combustion engines, nec .....	16.0	15.8	19.0	19.2	18.8
352	Farm and garden machinery .....	22.6	22.8	25.6	26.0	26.4
3523	Farm machinery and equipment .....	17.5	17.9	20.4	20.6	21.1
353	Construction and related machinery .....	40.7	41.5	45.1	45.7	46.7
3531	Construction machinery .....	14.7	14.9	14.7	14.7	14.9
3533	Oil field machinery .....	8.7	9.0	10.5	10.8	11.1
354	Metalworking machinery .....	51.2	51.9	56.7	57.3	58.1
3541	Machine tools, metal cutting types .....	8.1	8.3	9.5	9.6	9.7
3544	Special dies, tools, jigs, and fixtures .....	13.6	14.0	15.9	16.1	15.9
3545	Machine tool accessories .....	12.7	12.9	14.2	14.3	14.8
355	Special industry machinery .....	29.1	29.6	30.7	30.9	31.6
3551	Food products machinery .....	5.9	6.0	6.4	6.5	6.5
3552	Textile machinery .....	5.9	6.0	5.9	6.0	6.2
3555	Printing trades machinery .....	6.6	6.8	6.9	6.9	7.1
356	General industrial machinery .....	56.2	56.9	62.4	61.3	62.4
3561	Pumps and pumping equipment .....	10.6	10.7	11.4	11.4	11.5
3562	Ball and roller bearings .....	13.5	13.6	15.0	14.0	14.4
357	Office and computing machines .....	120.3	123.4	137.7	139.1	139.4
3573	Electronic computing equipment .....	92.6	95.0	108.2	109.3	111.2
359	Refrigeration and service machinery .....	36.6	37.5	41.0	40.9	39.4
3595	Refrigeration and heating equipment .....	24.5	24.7	28.1	27.9	26.3
359	Misc. machinery, except electrical .....	47.3	47.5	50.8	50.5	51.0
3599	Machinery, except electrical, nec .....	37.6	38.0	39.2	39.0	39.5
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT .....</b>	<b>809.3</b>	<b>820.7</b>	<b>861.7</b>	<b>868.0</b>	<b>884.1</b>
361	Electric distributing equipment .....	43.5	43.4	44.3	44.2	45.4
3612	Transformers .....	20.4	20.4	20.5	20.4	20.8
3613	Switchgear and switchboard apparatus .....	23.1	23.0	23.8	23.8	24.6
362	Electrical industrial apparatus .....	91.7	92.3	97.8	98.8	100.4
3621	Motors and generators .....	50.9	50.9	54.6	54.6	55.0
3622	Industrial controls .....	28.8	29.3	30.2	30.6	31.5
363	Household appliances .....	62.9	65.2	57.1	57.8	58.7
3632	Household refrigerators and freezers .....	14.1	14.1	10.1	10.4	10.7
3633	Household laundry equipment .....	5.1	5.3	4.6	4.8	4.9
3634	Electric housewares and fans .....	25.2	27.1	24.6	24.6	24.7
364	Electric lighting and wiring equipment .....	97.2	98.7	104.9	105.0	106.1
3641	Electric lamps .....	24.0	23.9	25.2	25.0	25.2

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	May 1978	June 1978	Apr. 1979	May 1979	June 1979
<b>ELECTRIC AND ELECTRONIC EQUIPMENT—Continued</b>						
3643	Current-carrying wiring devices .....	43.3	43.8	47.2	47.7	48.2
365	Radio and TV receiving equipment .....	63.2	63.4	59.4	60.8	62.9
3651	Radio and TV receiving sets .....	48.7	48.7	47.8	48.9	49.7
366	Communication equipment .....	173.0	174.9	190.7	191.9	194.6
3661	Telephone and telegraph apparatus .....	71.6	71.7	76.3	76.7	77.5
3662	Radio and TV communication equipment .....	101.4	103.2	114.4	115.2	117.1
367	Electronic components and accessories .....	223.1	228.5	251.1	253.6	259.4
3671-3	Electronic tubes .....	16.3	16.5	17.0	17.3	17.5
3674	Semiconductors and related devices .....	76.4	77.9	87.4	88.2	90.6
3679	Electronic components, nec .....	89.6	92.1	101.2	102.7	104.8
369	Misc. electrical equipment and supplies .....	54.7	54.3	56.4	55.9	56.6
3694	Engine electrical equipment .....	27.8	27.6	27.4	27.2	27.5
37	<b>TRANSPORTATION EQUIPMENT</b> .....	283.5	288.1	315.0	318.8	318.8
371	Motor vehicles and equipment .....	129.1	130.6	140.8	144.3	143.2
3711	Motor vehicles and car bodies .....	52.1	51.5	54.7	56.4	56.1
3713	Truck and bus bodies .....	5.2	5.4	6.1	6.4	6.7
3714	Motor vehicle parts and accessories .....	69.8	71.7	77.7	79.2	78.1
372	Aircraft and parts .....	89.2	91.9	109.7	110.8	112.4
3721	Aircraft .....	52.9	54.9	66.4	67.2	67.6
3724	Aircraft engines and engine parts .....	19.6	20.0	23.3	23.4	24.1
3728	Aircraft equipment, nec .....	16.7	17.0	20.0	20.2	20.7
373	Ship and boat building and repairing .....	22.1	22.2	22.0	22.4	22.5
3731	Ship building and repairing .....	14.4	14.5	13.8	14.7	15.4
374	Railroad equipment .....	5.0	5.2	5.5	5.5	5.6
376	Guided missiles, space vehicles, parts .....	15.8	15.9	17.8	18.0	18.2
3761	Guided missiles and space vehicles .....	12.6	12.7	14.2	14.3	14.5
379	Miscellaneous transportation equipment .....	16.0	16.3	13.0	11.5	10.3
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	272.2	279.4	295.1	295.2	301.1
381	Engineering and scientific instruments .....	19.5	20.0	22.8	23.0	23.1
382	Measuring and controlling devices .....	91.3	93.6	99.0	99.0	101.0
3822	Environmental controls .....	25.2	25.2	24.3	24.1	24.6
3823	Process control instruments .....	15.1	16.4	16.9	16.8	16.7
3825	Instruments to measure electricity .....	37.1	37.9	42.2	42.5	43.7
383	Optical instruments and lenses .....	9.2	9.4	10.2	10.4	10.7
384	Medical instruments and supplies .....	74.8	76.4	81.8	82.0	83.6
3841	Surgical and medical instruments .....	32.0	32.6	36.4	36.5	37.0
3842	Surgical appliances and supplies .....	34.0	35.1	36.7	36.8	37.8
385	Ophthalmic goods .....	23.0	23.5	24.3	24.3	24.4
386	Photographic equipment and supplies .....	35.7	37.4	39.0	38.9	40.4
387	Watches, clocks, and watchcases .....	18.7	19.1	18.0	17.6	17.9
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	212.1	216.8	210.1	210.2	214.5
391	Jewelry, silverware, and plated ware .....	29.1	29.7	27.5	27.1	26.5
393	Musical instruments .....	11.9	12.4	11.7	11.3	11.1
394	Toys and sporting goods .....	62.7	63.4	58.2	59.5	61.9
3942, 4	Dolls, games, toys, and children's vehicles .....	31.0	33.0	28.1	29.2	32.1
3949	Sporting and athletic goods, nec .....	31.7	30.4	30.1	30.3	29.8
395	Pens, pencils, office and art supplies .....	18.6	19.0	19.7	19.7	19.7
396	Costume jewelry and notions .....	39.2	39.9	41.0	40.6	42.3
399	Miscellaneous manufactures .....	50.6	52.4	52.0	52.0	53.0
<b>NONDURABLE GOODS</b>						
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	451.7	473.0	460.2	466.4	487.1
201	Meat products .....	106.7	109.6	112.0	113.2	119.2
2011	Meat packing plants .....	27.1	26.8	27.7	27.5	28.5
2013	Sausages and other prepared meats .....	19.8	20.1	19.7	20.4	20.9
2016	Poultry dressing plants .....	52.4	55.4	57.1	58.0	62.1
202	Dairy products .....	38.1	39.3	38.0	38.2	40.0
2026	Fluid milk .....	20.2	20.4	19.8	19.8	20.2
203	Preserved fruits and vegetables .....	76.6	85.5	77.4	80.1	86.2
2032	Canned specialties .....	9.4	9.4	9.9	9.3	9.0
2033	Canned fruits and vegetables .....	21.4	25.6	19.5	22.1	24.6
2037	Frozen fruits and vegetables .....	16.8	19.6	18.7	19.6	21.2
204	Grain mill products .....	27.9	28.5	27.9	28.4	28.6
205	Bakery products .....	60.5	60.9	60.4	60.5	60.7
2051	Bread, cake, and related products .....	42.1	42.1	41.4	41.9	42.0
2052	Cookies and crackers .....	18.4	18.8	19.0	18.6	18.7
206	Sugar and confectionery products .....	34.9	35.5	37.8	37.2	37.9
207	Fats and oils .....	5.0	5.1	4.9	4.9	4.9
208	Beverages .....	35.2	35.6	35.0	35.3	36.3
2082	Malt beverages .....	5.5	5.6	5.8	5.8	6.1
2086	Bottled and canned soft drinks .....	16.4	16.7	17.1	17.4	17.8
209	Misc. foods and kindred products .....	66.8	73.0	66.8	68.6	73.3
21	<b>TOBACCO MANUFACTURES</b> .....	23.8	23.9	23.6	23.4	22.8
211	Cigarettes .....	15.1	15.1	15.0	14.9	14.9

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

(In thousands)

1972 SIC Code	Industry	May 1978	June 1978	Apr. 1979	May 1979	June 1979
22	<b>TEXTILE MILL PRODUCTS</b>	430.0	433.8	427.1	427.8	432.9
221	Weaving mills, cotton	65.1	64.9	67.2	67.0	67.5
222	Weaving mills, synthetics	48.6	48.6	49.4	49.6	49.9
223	Weaving and finishing mills, wool	8.1	8.1	8.2	8.2	8.2
224	Narrow fabric mills	15.5	15.7	15.4	15.8	15.9
225	Knitting mills	157.2	159.8	151.3	150.7	154.3
2251	Women's hosiery, except socks	22.3	22.5	24.0	24.1	24.6
2252	Hosiery, nec	25.9	26.4	25.5	25.7	26.1
2253	Knit outerwear mills	55.7	57.1	49.2	49.8	51.3
2254	Knit underwear mills	27.8	28.0	28.9	27.5	28.1
2257	Circular knit fabric mills	15.0	14.9	13.8	13.7	14.1
228	Textile finishing, except wool	24.0	24.2	23.4	23.7	23.4
2261	Finishing plants, cotton	10.1	10.0	10.2	10.3	10.2
2262	Finishing plants, synthetic	6.8	6.9	6.6	6.4	6.5
227	Floor covering mills	25.0	25.1	25.0	25.3	25.8
228	Yarn and thread mills	65.4	66.1	65.8	66.1	66.6
2281	Yarn mills, except wool	41.0	41.6	41.4	41.9	42.2
2282	Throwing and winding mills	12.2	12.4	12.2	12.4	12.6
229	Miscellaneous textile goods	21.1	21.3	21.4	21.4	21.3
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,078.7	1,089.2	1,054.8	1,057.3	1,060.5
231	Men's and boys' suits and coats	70.3	70.7	66.5	66.9	66.9
232	Men's and boys' furnishings	315.8	319.4	309.4	312.2	314.8
2321	Men's and boys' shirts and nightwear	91.4	93.1	90.4	90.4	92.3
2327	Men's and boys' separate trousers	71.7	72.2	69.3	69.6	70.5
2328	Men's and boys' work clothing	80.7	81.2	81.2	83.0	82.9
233	Women's and misses' outerwear	365.4	369.4	363.9	360.3	359.6
2331	Women's and misses' blouses and waists	50.3	51.9	52.7	52.4	52.6
2335	Women's and misses' dresses	139.2	139.7	138.7	136.2	135.0
2337	Women's and misses' suits and coats	53.5	55.9	53.1	54.0	56.3
2339	Women's and misses' outerwear, nec	122.4	121.9	119.4	117.7	115.7
234	Women's and children's undergarments	82.4	82.5	79.5	79.1	79.4
2341	Women's and children's underwear	65.8	66.5	63.8	63.7	64.0
2342	Brassieres and allied garments	16.6	16.0	15.7	15.4	15.4
236	Children's outerwear	60.1	61.7	56.4	57.1	58.3
2361	Children's dresses and blouses	23.0	23.4	21.7	22.0	22.4
238	Misc. apparel and accessories	49.5	49.8	45.8	46.3	46.4
239	Misc. fabricated textile products	121.9	122.0	119.9	121.9	121.7
2391	Curtains and draperies	24.1	24.6	22.8	23.0	23.9
2392	House furnishings, nec	32.4	32.4	31.4	32.2	32.8
2396	Automotive and apparel trimmings	18.0	18.0	19.3	19.1	17.6
28	<b>PAPER AND ALLIED PRODUCTS</b>	159.5	162.0	162.2	162.1	166.2
261, 2,6	Paper and pulp mills	25.9	27.0	26.5	26.8	28.2
282	Paper mills, except building paper	23.4	24.4	24.1	24.4	25.5
283	Paperboard mills	5.6	5.9	6.1	6.1	6.3
284	Misc. converted paper products	76.0	76.3	76.0	75.8	77.3
285	Paperboard containers and boxes	52.0	52.8	53.6	53.4	54.4
27	<b>PRINTING AND PUBLISHING</b>	449.8	452.4	475.6	475.2	479.4
271	Newspapers	140.8	143.3	148.6	149.0	152.0
272	Periodicals	45.8	46.7	48.9	48.9	49.4
273	Books	55.8	54.7	57.3	56.6	56.0
274	Miscellaneous publishing	25.5	25.3	26.9	25.6	25.9
275	Commercial printing	115.8	115.1	124.4	124.4	123.1
2751	Commercial printing, letterpress	52.9	53.0	56.0	56.2	56.0
2752	Commercial printing, lithographic	57.3	57.0	62.7	62.6	61.7
276	Manifold business forms	13.7	13.9	15.0	15.2	15.5
278	Blankbooks and bookbinding	31.0	31.5	32.6	33.5	34.9
279	Printing trade services	8.0	8.1	8.6	8.6	8.8
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	254.0	258.1	262.9	266.3	272.1
281	Industrial inorganic chemicals	21.8	22.2	23.7	23.7	24.6
2819	Industrial inorganic chemicals, nec	15.1	15.3	16.2	16.1	16.5
282	Plastics materials and synthetics	43.5	44.4	45.5	45.8	47.0
2821	Plastics materials and resins	9.9	10.4	10.7	10.9	11.5
2824	Organic fibers, noncellulosic	25.5	25.7	26.4	26.1	26.6
283	Drugs	72.8	73.7	76.3	76.9	78.5
2834	Pharmaceutical preparations	61.9	62.8	65.1	65.4	66.8
284	Soap, cleaners, and toilet goods	53.4	54.2	52.5	53.8	54.9
2841	Soap and other detergents	9.0	9.1	8.4	8.8	9.1
2844	Toilet preparations	32.7	32.9	31.8	32.5	33.0
285	Paints and allied products	12.0	12.3	12.6	12.9	13.1
286	Industrial organic chemicals	23.4	23.9	23.9	24.1	24.5
2861,9	Gum, wood, and industrial organic chemicals, nec	19.0	19.5	19.3	19.5	19.9
287	Agricultural chemicals	9.6	9.4	10.1	10.4	10.4
289	Miscellaneous chemical products	17.5	18.0	18.3	18.7	19.1

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	May 1978	June 1978	Apr. 1979	May 1979	June 1979
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	24.6	25.4	25.5	25.9	27.3
291	Petroleum refining .....	19.9	20.4	20.2	20.6	21.9
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	255.7	261.5	269.5	272.2	275.5
301	Tires and inner tubes .....	11.9	12.1	12.4	12.4	11.8
302	Rubber and plastics footwear .....	13.2	13.5	13.2	13.0	13.3
303,4	Reclaimed rubber, and rubber and plastics hose and belting .....	6.0	6.2	5.6	5.6	6.0
306	Fabricated rubber products, nec .....	39.0	39.6	40.8	41.0	40.9
307	Miscellaneous plastics products .....	185.6	190.1	197.5	200.2	203.5
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	154.5	157.7	144.4	147.8	149.6
311	Leather tanning and finishing .....	3.1	3.2	3.0	3.0	3.0
314	Footwear, except rubber .....	106.3	108.5	96.7	99.6	100.7
3143	Men's footwear, except athletic .....	41.3	41.7	36.7	37.4	37.7
3144	Women's footwear, except athletic .....	43.2	44.5	40.1	42.0	42.9
316	Luggage .....	9.2	9.3	9.4	9.6	9.6
317	Handbags and personal leather goods .....	21.7	22.3	21.7	22.0	22.4
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,104	1,122	1,177	1,195	1,220
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	54.7	52.1	57.1	58.6	55.1
411	Local and suburban transportation .....	8.7	9.3	10.8	11.0	10.9
412	Taxicabs .....	7.3	7.2	7.7	7.6	7.6
413	Intercity highway transportation .....	4.6	4.7	4.6	4.7	4.9
415	School buses .....	31.5	28.4	31.4	32.5	29.0
42	<b>TRUCKING AND WAREHOUSING</b> .....	134.2	137.6	138.9	144.9	149.0
421,3	Trucking and trucking terminals .....	119.7	123.3	123.5	129.8	133.8
422	Public warehousing .....	14.5	14.3	15.4	15.1	15.2
44	<b>WATER TRANSPORTATION</b> .....	18.0	18.4	18.8	19.1	19.7
45	<b>TRANSPORTATION BY AIR</b> .....	199.3	121.9	118.5	121.4	131.1
451,2	Air transportation .....	112.3	114.7	110.9	113.5	122.9
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	1.9	1.9	2.0	2.0	2.2
47	<b>TRANSPORTATION SERVICES</b> .....	73.7	75.2	79.0	79.7	82.4
48	<b>COMMUNICATION</b> .....	552.7	461.1	604.4	608.8	615.6
481	Telephone communication .....	487.3	494.8	532.1	535.4	541.6
483	Radio and television broadcasting .....	51.2	52.0	56.4	57.2	57.8
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	130.6	133.7	137.2	138.5	142.2
491	Electric services .....	58.7	59.9	62.5	63.6	64.7
492	Gas production and distribution .....	32.2	33.1	33.4	33.6	34.6
493	Combination utility services .....	30.6	31.4	31.4	31.8	32.8
495	Sanitary services .....	4.5	4.5	4.7	4.8	4.8
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	8,116	8,205	8,475	8,573	8,596
50,51	<b>WHOLESALE TRADE</b> .....	1,201	1,218	1,268	1,278	1,292
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	653	660	702	708	717
501	Motor vehicles and automotive equipment .....	86.2	87.2	92.1	93.8	94.2
502	Furniture and home furnishings .....	34.3	34.1	36.8	36.9	37.1
503	Lumber and construction materials .....	27.7	28.0	30.3	31.3	31.4
504	Sporting goods, toys, and hobby goods .....	22.3	22.7	20.4	20.9	21.6
505	Metals and minerals, except petroleum .....	24.4	24.8	26.7	26.8	27.2
506	Electrical goods .....	106.1	107.6	116.8	117.4	118.3
507	Hardware, plumbing, and heating equipment .....	61.1	61.6	66.5	67.0	67.8
508	Machinery, equipment, and supplies .....	243.0	246.5	265.1	266.3	271.1
509	Miscellaneous durable goods .....	47.8	47.5	47.5	47.9	48.4
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	548	558	566	570	575
511	Paper and paper products .....	38.5	38.3	40.0	40.4	40.9
512	Drugs, proprietaries, and sundries .....	57.6	58.3	61.8	62.8	62.8
513	Apparel, piece goods, and notions .....	75.9	77.0	77.6	77.8	78.3
514	Groceries and related products .....	145.0	152.1	137.0	139.1	143.7
516	Chemicals and allied products .....	28.5	28.7	30.4	30.5	31.1
517	Petroleum and petroleum products .....	45.6	46.6	47.3	47.8	49.0
518	Beer, wine, and distilled beverages .....	19.1	19.4	20.7	20.8	20.8
519	Miscellaneous nondurable goods .....	102.3	102.7	109.6	109.5	110.0

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	May 1978	June 1978	Apr. 1979	May 1979	June 1979
52-59	<b>RETAIL TRADE</b> .....	6,915	6,987	7,207	7,295	7,304
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	141.5	141.6	150.2	151.5	149.8
621	Lumber and other building materials .....	55.8	57.0	58.8	60.0	60.7
526	Hardware stores .....	47.8	48.8	50.8	51.7	52.3
53	<b>GENERAL MERCHANDISE STORES</b> .....	1,152.1	1,534.9	1,498.5	1,497.8	1,491.5
531	Department stores .....	1,207.3	1,217.0	1,182.0	1,178.6	1,166.3
533	Variety stores .....	220.4	222.5	219.8	220.6	219.9
539	Misc. general merchandise stores .....	93.4	95.4	96.7	98.6	105.3
54	<b>FOOD STORES</b> .....	888.3	892.6	933.9	936.4	938.8
541	Grocery stores .....	743.9	749.2	789.8	793.4	797.3
542	Meat markets and freezer provisioners .....	13.5	13.2	15.1	15.4	16.1
546	Retail bakeries .....	69.5	69.3	70.4	70.3	70.5
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	291.1	298.1	309.3	313.7	317.9
551,2	New and used car dealers .....	117.0	119.3	125.9	126.6	126.1
553	Auto and home supply stores .....	43.2	45.6	43.6	45.7	46.9
554	Gasoline service stations .....	116.7	118.8	125.2	126.4	128.5
56	<b>APPAREL AND ACCESSORY STORES</b> .....	584.0	583.5	615.2	611.6	609.7
561	Men's and boys' clothing and furnishings .....	57.9	58.7	60.1	60.3	61.1
562	Women's ready-to-wear stores .....	281.3	279.2	294.1	293.6	289.8
565	Family clothing stores .....	114.8	114.4	119.2	119.2	120.3
566	Shoe stores .....	65.9	66.8	77.3	74.8	73.6
57	<b>FURNITURE AND HOME FURNISHING STORES</b> .....	183.8	182.8	193.8	192.8	194.6
571	Furniture and home furnishings .....	123.1	122.9	125.3	125.6	125.2
572	Household appliance stores .....	23.6	23.8	25.5	23.9	25.3
573	Radio, television, and music stores .....	37.1	36.1	43.0	43.3	44.1
58	<b>EATING AND DRINKING PLACES</b> .....	2,400.3	2,451.0	2,552.3	2,629.3	2,653.0
59	<b>MISCELLANEOUS RETAIL</b> .....	904.9	902.5	954.2	961.8	949.1
591	Drug stores and proprietary stores .....	284.4	290.0	310.2	312.8	317.9
592	Liquor stores .....	24.3	24.7	29.3	33.4	32.7
594	Miscellaneous shopping goods stores .....	284.7	286.7	298.4	302.0	300.9
596	Nonstore retailers .....	149.5	151.4	146.8	142.5	140.2
598	Fuel and ice dealers .....	21.6	21.2	22.9	22.2	21.7
599	Retail stores, nec .....	120.8	108.9	125.8	128.3	114.8
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,655	2,695	2,812	2,825	2,866
60	<b>BANKING</b> .....	969.4	984.9	1,026.1	1,030.6	1,044.9
602	Commercial and stock savings banks .....	891.4	906.1	943.7	948.1	961.2
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	316.7	320.9	340.8	342.4	347.8
612	Savings and loan associations .....	152.9	155.3	165.7	166.7	169.9
614	Personal credit institutions .....	110.5	111.4	118.3	118.8	120.3
62	<b>SECURITY, COMMODITY BROKERS, AND SERVICES</b> .....	70.3	71.8	77.7	77.4	79.6
621	Security brokers and dealers .....	57.0	57.9	62.7	62.5	64.1
63	<b>INSURANCE CARRIERS</b> .....	695.4	704.4	738.9	738.7	746.0
631	Life insurance .....	269.8	271.5	278.9	277.5	280.3
632	Medical service and health insurance .....	99.6	100.6	102.9	103.0	103.3
633	Fire, marine, and casualty insurance .....	227.0	282.9	306.6	307.3	310.7
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b> .....	236.1	238.2	249.2	250.7	253.2
65	<b>REAL ESTATE</b> .....	300.6	306.9	308.6	313.5	320.8
651	Real estate operators and lessors .....	129.7	132.1	131.8	132.7	136.7
653	Real estate agents and managers .....	126.3	129.1	133.3	136.5	138.9
655	Subdividers and developers .....	27.7	28.5	25.6	26.0	26.9
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b> .....	18.4	18.7	18.6	18.8	19.2
67	<b>HOLDING AND OTHER INVESTMENT OFFICES</b> .....	47.9	48.7	51.7	52.8	54.0
-	<b>SERVICES</b> .....	9,231	9,294	9,673	9,735	9,805
70	<b>HOTELS AND OTHER LODGING PLACES</b> .....	512.3	546.4	520.3	533.9	574.9
701	Hotels, motels, and tourist courts .....	493.6	522.1	503.5	516.1	550.2

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	May 1978	June 1978	Apr. 1979	May 1979	June 1979
72	<b>PERSONAL SERVICES</b> .....	602.7	599.8	615.4	606.8	600.8
721	Laundry, cleaning, and garment services .....	221.9	223.0	219.9	222.0	221.4
723	Beauty shops .....	248.2	248.4	255.5	251.8	249.1
726	Funeral service and crematories .....	18.1	18.1	19.1	19.1	19.2
73	<b>BUSINESS SERVICES</b> .....	1,042.3	1,058.1	1,138.1	1,159.6	1,176.3
731	Advertising .....	61.3	62.4	68.4	68.9	69.9
732	Credit reporting and collection .....	64.6	65.1	64.6	64.7	64.2
733	Mailing, reproduction, stenographic .....	47.5	46.2	49.9	50.6	49.5
734	Services to buildings .....	155.8	160.1	169.1	172.7	178.4
736	Personnel supply services .....	224.4	226.3	245.3	254.8	258.2
737	Computer and data processing services .....	95.6	96.8	112.6	112.6	113.1
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	84.2	85.1	89.3	89.0	89.6
753	Automotive repair shops .....	38.2	38.9	39.7	39.3	39.5
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	45.5	46.5	52.4	52.5	54.0
78	<b>MOTION PICTURES</b> .....	80.3	85.1	82.6	83.4	86.8
781	Motion picture production and services .....	21.1	22.3	24.3	22.4	22.1
783	Motion picture theaters .....	53.7	57.4	52.8	55.6	59.3
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	270.7	302.0	267.5	281.0	312.0
80	<b>HEALTH SERVICES</b> .....	3,838.1	3,879.7	3,999.5	4,014.3	4,068.3
801	Offices of physicians .....	530.7	537.1	551.6	555.4	561.6
802	Offices of dentists .....	246.6	247.1	256.0	258.6	261.8
806	Nursing and personal care facilities .....	792.9	806.4	836.1	841.6	857.7
806	Hospitals .....	2,033.9	2,053.6	2,103.5	2,105.7	2,132.0
81	<b>LEGAL SERVICES</b> .....	297.8	304.7	315.6	317.3	323.0
82	<b>EDUCATIONAL SERVICES</b> .....	556.5	486.6	553.2	541.3	477.3
821	Elementary and secondary schools .....	155.6	149.4	148.3	147.9	141.1
822	Colleges and universities .....	344.0	281.9	344.1	332.2	276.1
83	<b>SOCIAL SERVICES</b> .....	689.2	686.8	748.3	760.8	752.9
89	<b>MISCELLANEOUS SERVICES</b> .....	253.0	257.6	282.3	277.6	282.2
891	Engineering and architectural services .....	87.9	90.7	95.4	97.3	100.6
893	Accounting, auditing, and bookkeeping .....	114.0	114.9	130.7	124.2	124.8
—	<b>GOVERNMENT</b> .....	7,434	7,292	7,512	7,503	7,354
—	<b>FEDERAL GOVERNMENT</b> .....	878	888	864	871	890
—	<b>STATE AND LOCAL GOVERNMENT</b> .....	6,556	6,404	6,648	6,632	6,464
—	State government .....	1,549.2	1,479.0	1,559.6	1,538.9	1,464.6
—	Hospitals .....	315.5	313.7	333.2	331.0	330.6
—	State education .....	630.0	550.6	655.5	637.3	557.8
—	General administration including executive, legislative, and judicial functions .....	419.4	423.6	386.8	385.2	384.8
—	Local government .....	5,006.8	4,925.0	5,088.3	5,092.7	4,999.3
—	Transportation and public utilities .....	73.3	75.4	86.0	88.0	88.6
—	Hospitals .....	388.8	395.3	405.9	408.6	415.2
—	Local education .....	3,432.2	3,300.2	3,518.4	3,509.8	3,351.1
—	General administration including executive, legislative, and judicial functions .....	920.6	959.9	889.4	894.0	935.8

# 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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>	Aug. <sup>P</sup>
<b>TOTAL</b> .....	86,149	86,163	86,573	87,036	87,281	87,524	87,818	88,263	88,248	88,539	88,764	88,813	88,815
<b>GOODS-PRODUCING</b> .....	25,463	25,471	25,670	25,872	26,030	26,111	26,199	26,412	26,351	26,423	26,433	26,441	26,286
<b>MINING</b> .....	887	887	893	903	904	905	919	922	922	923	930	933	952
<b>CONSTRUCTION</b> .....	4,298	4,298	4,341	4,368	4,397	4,381	4,385	4,526	4,507	4,594	4,610	4,645	4,594
<b>MANUFACTURING</b> .....	20,278	20,286	20,436	20,601	20,729	20,825	20,895	20,964	20,922	20,906	20,893	20,863	20,740
<b>DURABLE GOODS</b> .....	12,146	12,166	12,305	12,410	12,491	12,562	12,647	12,699	12,665	12,645	12,649	12,659	12,600
Lumber and wood products .....	743	744	748	759	765	770	773	768	758	758	754	748	748
Furniture and fixtures .....	481	480	484	487	491	494	493	491	488	483	479	482	476
Stone, clay, and glass products .....	692	692	696	701	707	706	709	714	711	712	713	708	703
Primary metal industries .....	1,205	1,214	1,220	1,235	1,240	1,241	1,251	1,254	1,253	1,247	1,249	1,246	1,232
Fabricated metal products .....	1,646	1,650	1,667	1,684	1,697	1,706	1,715	1,712	1,712	1,711	1,710	1,700	1,691
Machinery, except electrical .....	2,351	2,358	2,391	2,404	2,425	2,447	2,465	2,481	2,496	2,499	2,513	2,526	2,516
Electric and electronic equipment .....	1,975	1,972	1,987	2,001	2,011	2,027	2,042	2,064	2,062	2,064	2,080	2,086	2,057
Transportation equipment .....	1,941	1,943	1,991	2,010	2,021	2,031	2,055	2,067	2,038	2,031	2,003	2,018	2,024
Instruments and related products .....	661	662	665	671	676	681	686	690	693	692	698	700	699
Miscellaneous manufacturing ind. ....	451	451	456	458	458	459	458	458	454	448	450	445	449
<b>NONDURABLE GOODS</b> .....	8,132	8,120	8,131	8,191	8,238	8,263	8,248	8,265	8,257	8,261	8,244	8,204	8,140
Food and kindred products .....	1,670	1,665	1,667	1,693	1,711	1,716	1,708	1,716	1,709	1,702	1,699	1,675	1,656
Tobacco manufactures .....	69	70	71	71	72	72	71	73	73	74	74	71	66
Textile mill products .....	903	907	907	910	910	912	911	909	903	904	901	901	895
Apparel and other textile products .....	1,309	1,309	1,307	1,307	1,312	1,318	1,304	1,301	1,305	1,303	1,294	1,298	1,277
Paper and allied products .....	698	697	692	700	705	708	712	717	719	718	718	719	718
Printing and publishing .....	1,188	1,178	1,185	1,198	1,203	1,209	1,214	1,219	1,219	1,222	1,228	1,232	1,230
Chemicals and allied products .....	1,089	1,088	1,089	1,093	1,097	1,099	1,098	1,098	1,101	1,106	1,110	1,106	1,098
Petroleum and coal products .....	209	209	210	210	211	211	212	214	214	213	212	212	213
Rubber and misc. plastic products .....	746	744	752	761	771	773	777	778	776	779	769	770	754
Leather and leather products .....	251	253	251	248	246	245	241	240	238	240	239	220	233
<b>SERVICE-PRODUCING</b> .....	60,686	60,692	60,903	61,164	61,251	61,413	61,619	61,851	61,897	62,116	62,331	62,372	62,529
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,846	4,885	4,922	4,947	4,967	4,974	5,001	5,025	4,935	5,031	5,085	5,075	5,066
<b>WHOLESALE AND RETAIL TRADE</b> .....	19,523	19,546	19,632	19,701	19,697	19,817	19,883	19,945	19,959	19,985	19,980	19,959	19,996
<b>WHOLESALE TRADE</b> .....	4,905	4,917	4,945	4,968	4,995	5,020	5,035	5,055	5,062	5,080	5,097	5,088	5,100
<b>RETAIL TRADE</b> .....	14,618	14,629	14,687	14,733	14,702	14,797	14,848	14,890	14,897	14,905	14,883	14,871	14,896
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	4,707	4,719	4,737	4,774	4,789	4,809	4,829	4,839	4,853	4,867	4,892	4,907	4,939
<b>SERVICES</b> .....	16,074	16,127	16,169	16,270	16,237	16,352	16,438	16,535	16,575	16,622	16,706	16,730	16,804
<b>GOVERNMENT</b> .....	15,536	15,445	15,443	15,472	15,471	15,461	15,468	15,507	15,575	15,611	15,668	15,701	15,724
<b>FEDERAL</b> .....	2,765	2,752	2,760	2,757	2,734	2,755	2,755	2,754	2,756	2,770	2,793	2,788	2,785
<b>STATE AND LOCAL</b> .....	12,771	12,693	12,683	12,715	12,737	12,706	12,713	12,753	12,819	12,841	12,875	12,913	12,939

<sup>p</sup>preliminary.

<sup>c</sup>corrected.

**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					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>TOTAL</b> .....	35,077	35,099	35,170	35,256	35,381	35,622	35,758	35,953	36,069	36,191	36,369	36,480	36,598
<b>GOODS-PRODUCING</b> .....	6,592	6,584	6,587	6,594	6,645	6,703	6,754	6,803	6,815	6,844	6,858	6,869	6,884
<b>MINING</b> .....	75	77	77	78	79	80	81	82	82	84	86	88	88
<b>CONSTRUCTION</b> .....	334	337	338	377	339	339	340	344	350	353	358	362	369
<b>MANUFACTURING</b> .....	6,183	6,170	6,172	6,179	6,227	6,284	6,333	6,377	6,383	6,407	6,414	6,419	6,427
<b>DURABLE GOODS</b> .....	2,862	2,870	2,875	2,887	2,924	2,954	2,982	3,005	3,033	3,055	3,056	3,060	3,069
Lumber and wood products .....	107	106	106	106	108	110	111	112	113	114	113	112	112
Furnitures and fixtures .....	141	142	141	141	142	143	144	146	146	144	144	143	143
Stone, clay, and glass products .....	129	129	130	130	130	131	133	132	133	135	134	135	136
Primary metal industries .....	120	121	122	124	125	126	128	129	130	131	132	133	136
Fabricated metal products .....	339	336	337	338	343	346	350	353	355	357	356	357	358
Machinery, except electrical .....	433	437	437	441	448	450	457	461	466	471	477	480	479
Electric and electronic equipment .....	818	823	823	821	831	838	845	852	861	871	870	874	881
Transportation equipment .....	285	286	286	291	300	308	311	314	321	322	318	319	315
Instruments and related products .....	277	279	281	282	282	285	287	290	293	294	297	296	298
Miscellaneous manufacturing ind. ....	213	211	212	213	215	217	216	216	215	216	215	211	211
<b>NONDURABLE GOODS</b> .....	3,321	3,300	3,297	3,292	3,303	3,330	3,351	3,372	3,350	3,352	3,358	3,359	3,358
Food and kindred products .....	485	482	469	467	417	485	495	501	495	496	496	496	499
Tobacco manufactures .....	27	27	24	25	26	26	27	27	26	27	27	27	26
Textile mill products .....	429	430	428	429	430	430	431	431	430	430	428	428	428
Apparel and other textile products .....	1,074	1,059	1,064	1,064	1,061	1,061	1,064	1,070	1,057	1,053	1,056	1,054	1,046
Paper and allied products .....	160	159	159	158	157	159	160	162	162	164	165	163	164
Printing and publishing .....	452	452	456	455	459	464	466	472	473	475	476	476	479
Chemicals and allied products .....	256	258	257	257	258	261	263	265	264	265	265	268	270
Petroleum and coal products .....	25	25	25	25	25	25	25	25	25	25	25	26	27
Rubber and misc. plastics products .....	260	260	262	258	262	268	271	271	272	272	274	275	274
Leather and leather products .....	153	148	153	154	154	151	149	148	146	145	145	146	145
<b>SERVICE-PRODUCING</b> .....	28,485	28,515	28,583	28,662	28,736	28,919	29,004	29,150	29,254	29,347	29,511	29,611	29,714
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,115	1,117	1,127	1,131	1,145	1,150	1,158	1,177	1,186	1,193	1,184	1,193	1,213
<b>WHOLESALE AND RETAIL TRADE</b> ..	8,225	8,258	8,303	8,322	8,354	8,389	8,372	8,467	8,511	8,523	8,575	8,619	8,617
<b>WHOLESALE TRADE</b> .....	1,217	1,215	1,216	1,222	1,242	1,250	1,260	1,267	1,268	1,277	1,280	1,287	1,291
<b>RETAIL TRADE</b> .....	7,008	7,043	7,087	7,100	7,112	7,139	7,112	7,200	1,243	7,246	7,295	7,332	7,326
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,679	2,696	2,709	2,720	2,742	2,764	2,778	2,793	2,798	2,807	2,820	2,828	2,849
<b>SERVICES</b> .....	9,220	9,260	9,315	9,333	9,354	9,440	9,506	9,529	9,564	9,623	9,644	9,677	9,727
<b>GOVERNMENT</b> .....	7,246	7,184	7,129	7,156	7,141	7,176	7,190	7,184	7,195	7,201	7,288	7,294	7,308
<b>FEDERAL</b> .....	874	879	880	877	878	874	859	862	860	858	859	874	876
<b>STATE AND LOCAL</b> .....	6,372	6,305	6,249	6,279	6,263	6,302	6,331	6,322	6,335	6,343	6,429	6,420	6,432

<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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>	Aug. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	57,771	57,861	58,151	58,576	58,780	58,914	59,157	59,514	59,391	59,611	59,743	59,747	59,644
<b>GOODS-PRODUCING</b> .....	18,619	18,629	18,795	18,974	19,114	19,151	19,214	19,395	19,322	19,373	19,359	19,350	19,160
<b>MINING</b> .....	668	671	675	683	682	687	694	694	693	694	695	697	711
<b>CONSTRUCTION</b> .....	3,419	3,422	3,465	3,488	3,513	3,468	3,473	3,613	3,594	3,673	3,696	3,728	3,667
<b>MANUFACTURING</b> .....	14,532	14,536	14,655	14,803	14,919	14,996	15,047	15,088	15,035	15,006	14,968	14,925	14,782
<b>DURABLE GOODS</b> .....	8,693	8,706	8,816	8,909	8,985	9,034	9,100	9,131	9,090	9,059	9,043	9,032	8,949
Lumber and wood products .....	636	636	641	649	654	658	660	658	648	646	644	639	637
Furniture and fixtures .....	394	395	398	400	403	405	404	402	399	395	391	393	387
Stone, clay, and glass products .....	549	548	551	556	561	560	562	566	563	563	564	558	557
Primary metal industries .....	947	953	960	976	981	981	991	992	990	983	985	982	966
Fabricated metal products .....	1,245	1,248	1,264	1,280	1,291	1,295	1,305	1,301	1,298	1,296	1,296	1,285	1,272
Machinery, except electrical .....	1,544	1,550	1,576	1,581	1,603	1,615	1,630	1,638	1,649	1,648	1,654	1,663	1,633
Electric and electronic equipment .....	1,293	1,290	1,301	1,312	1,320	1,334	1,345	1,362	1,359	1,357	1,363	1,363	1,334
Transportation equipment .....	1,336	1,337	1,370	1,393	1,407	1,415	1,429	1,437	1,412	1,405	1,376	1,382	1,392
Instruments and related products .....	405	406	408	412	416	420	424	425	426	424	427	429	427
Miscellaneous manufacturing ind. ....	344	343	347	350	349	351	350	350	346	342	343	338	344
<b>NONDURABLE GOODS</b> .....	5,839	5,830	5,839	5,894	5,934	5,962	5,947	5,957	5,945	5,947	5,925	5,893	5,833
Food and kindred products .....	1,124	1,122	1,122	1,148	1,166	1,174	1,165	1,175	1,170	1,163	1,160	1,141	1,119
Tobacco manufactures .....	54	56	57	56	58	58	57	58	58	60	59	57	52
Textile mill products .....	785	790	790	795	793	795	793	790	785	787	785	785	778
Apparel and other textile products .....	1,127	1,124	1,123	1,123	1,124	1,131	1,119	1,114	1,116	1,114	1,104	1,107	1,087
Paper and allied products .....	523	522	519	525	531	534	538	543	544	545	545	547	544
Printing and publishing .....	667	657	663	672	676	681	685	689	688	691	691	695	694
Chemicals and allied products .....	623	624	624	627	630	632	632	630	632	632	636	633	628
Petroleum and coal products .....	136	137	137	138	139	139	140	141	140	139	139	138	142
Rubber and misc. plastics products .....	584	581	589	598	607	609	613	613	610	612	602	603	590
Leather and leather products .....	216	217	215	212	210	209	205	204	202	204	204	187	199
<b>SERVICE-PRODUCING</b> .....	39,152	39,232	39,356	39,602	39,666	39,763	39,943	40,119	40,069	40,238	40,384	40,397	40,484
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,066	4,064	4,129	4,150	4,155	4,168	4,186	4,204	4,120	4,211	4,261	4,248	4,245
<b>WHOLESALE AND RETAIL TRADE</b> .....	17,214	17,228	17,288	17,372	17,355	17,430	17,502	17,554	17,553	17,576	17,571	17,551	17,581
<b>WHOLESALE TRADE</b> .....	4,042	4,053	4,075	4,093	4,109	4,127	4,144	4,163	4,167	4,177	4,193	4,180	4,181
<b>RETAIL TRADE</b> .....	13,172	13,175	13,213	13,279	13,246	13,303	13,358	13,391	13,386	13,399	13,378	13,371	13,400
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,579	3,591	3,603	3,635	3,644	3,663	3,672	3,681	3,694	3,701	3,719	3,733	3,756
<b>SERVICES</b> .....	14,293	14,349	14,336	14,445	14,512	14,502	14,583	14,680	14,702	14,750	14,833	14,865	14,902

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

p-preliminary.

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

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1976				
January.....	78.2	85.8	87.2	85.2
February.....	72.4	84.9	85.8	84.0
March.....	69.5	81.4	82.0	85.2
April.....	70.1	72.4	75.6	78.8
May.....	58.1	67.2	68.3	82.6
June.....	57.8	65.1	71.2	79.9
July.....	58.4	57.8	63.1	78.5
August.....	49.1	64.0	65.1	77.6
September.....	64.8	53.8	66.3	80.2
October.....	47.1	65.1	73.3	80.8
November.....	67.4	64.2	78.8	80.8
December.....	66.6	81.4	81.4	82.6
1977				
January.....	76.2	83.1	88.1	78.8
February.....	66.0	86.3	87.8	80.5
March.....	74.7	81.1	85.2	80.2
April.....	68.0	79.4	79.4	84.6
May.....	64.8	76.2	75.9	84.0
June.....	71.2	68.0	72.1	83.1
July.....	59.3	63.4	69.8	82.6
August.....	51.7	58.7	74.1	83.7
September.....	60.8	62.5	72.1	82.6
October.....	60.5	73.8	77.9	81.1
November.....	73.8	75.3	82.0	81.1
December.....	72.1	79.7	83.1	80.8
1978				
January.....	69.8	80.2	85.5	80.5
February.....	70.3	80.2	79.9	79.1
March.....	70.1	75.9	77.9	77.6
April.....	62.8	67.4	68.9	78.5
May.....	56.4	63.7	67.7	80.5
June.....	67.2	62.5	59.6	82.6
July.....	54.9	57.0	61.3	82.0
August.....	51.7	49.7	74.4	77.6
September.....	57.6	58.7	77.9	75.3
October.....	70.6	75.6	83.1	72.4
November.....	80.2	85.5	84.6	75.0
December.....	79.7	87.2	86.0	71.8
1979				
January.....	74.1	82.3	81.7	70.1p
February.....	65.1	77.9	69.2	68.4p
March.....	62.5	58.4	65.4	
April.....	44.2	53.2	53.2p	
May.....	48.0	50.3	50.3p	
June.....	60.5	52.9p		
July.....	52.0p	52.0p		
August.....	51.7p			
September.....				
October.....				
November.....				
December.....				

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

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P
1 ALABAMA	1,360.5	1,354.0	1,353.8	15.9	16.0	16.0	84.6	81.7	82.3	366.3	362.7	361.5
2 Birmingham	354.9	357.5	359.4	9.1	9.2	9.1	25.8	23.0	23.5	68.8	69.6	69.6
3 Huntsville	120.0	119.3	121.7	(1)	(1)	(1)	4.6	4.5	4.6	35.6	34.4	36.0
4 Mobile	149.8	149.6	147.7	(1)	(1)	(1)	12.3	13.4	12.4	31.4	28.8	28.7
5 Montgomery	104.2	108.4	108.2	(1)	(1)	(1)	7.1	8.0	8.0	15.8	16.3	16.3
6 Tuscaloosa	47.3	48.3	47.9	1.1	1.2	1.2	3.3	3.2	3.3	8.6	9.1	8.7
7 ALASKA	175.9	168.7	171.4	5.6	5.8	5.7	14.6	10.7	11.5	16.7	13.7	16.7
8 ARIZONA	869.7	934.1	932.1	19.2	21.4	21.8	70.5	77.0	79.5	125.7	139.7	140.0
9 Phoenix	539.6	583.3	580.8	.2	.2	.2	43.9	50.1	51.4	92.0	102.8	103.1
10 Tucson	156.8	167.2	(*)	5.9	6.8	(*)	12.3	13.4	(*)	15.6	18.4	(*)
11 ARKANSAS	727.2	747.4	745.0	4.9	5.3	5.4	40.6	41.3	42.0	215.7	218.9	217.1
12 Fayetteville-Springdale	59.0	62.0	62.3	(1)	(1)	(1)	3.4	3.4	3.5	18.2	19.1	19.1
13 Fort Smith	68.1	67.5	66.9	.8	.8	.8	3.4	3.4	3.5	25.7	24.9	24.6
14 Little Rock-North Little Rock	174.0	178.9	179.1	(1)	(1)	(1)	9.7	10.0	10.2	31.6	31.4	31.3
15 Pine Bluff	30.3	31.4	31.4	(1)	(1)	(1)	2.5	2.1	2.1	6.0	6.3	6.3
16 CALIFORNIA	9,237.4	9,677.8	9,631.4	37.7	39.0	39.4	433.0	447.8	449.6	1,888.0	1,966.4	1,973.6
17 Anaheim-Santa Ana-Garden Grove	748.9	815.4	800.0	2.3	2.4	2.4	48.2	51.1	50.0	197.9	213.5	213.8
18 Bakersfield	122.3	125.7	125.0	10.2	10.5	10.5	7.0	7.3	7.2	9.5	9.7	9.7
19 Fresno	174.0	184.5	182.7	.9	.9	.9	11.7	13.4	13.4	24.4	24.1	25.4
20 Los Angeles-Long Beach	3,432.7	3,573.7	3,559.2	11.4	11.6	11.8	109.7	114.2	115.8	883.8	925.2	921.7
21 Modesto	83.7	87.2	89.2	.1	.1	.1	6.1	6.5	6.6	19.0	18.6	21.9
22 Oxnard-Simi Valley-Ventura	135.8	141.8	141.9	2.4	2.4	2.4	7.2	7.6	7.7	20.2	21.0	20.7
23 Riverside-San Bernardino-Ontario	404.9	431.6	425.1	2.4	2.5	2.5	27.9	29.6	29.9	64.5	66.8	66.6
24 Sacramento	371.2	397.6	395.0	.4	.4	.4	23.2	25.6	25.7	26.2	27.1	28.0
25 Salinas-Seaside-Monterey	85.0	87.9	85.7	.6	.6	.6	3.8	3.7	3.6	10.1	10.7	10.1
26 San Diego	593.0	631.3	623.6	.7	.7	.7	39.5	41.6	41.3	88.8	97.8	97.5
27 San Francisco-Oakland	1,488.9	1,546.9	1,534.1	1.9	2.0	2.0	70.8	73.0	73.5	202.7	207.7	207.7
28 San Jose	589.7	622.1	627.1	.1	.1	.1	24.6	25.0	25.2	200.8	216.9	222.4
29 Santa Barbara-Santa Maria-Lompoc	112.6	116.0	117.2	1.0	1.1	1.1	4.9	5.2	5.2	14.8	15.2	15.6
30 Santa Rosa	83.4	87.5	86.4	.4	.4	.5	5.4	5.5	5.5	12.8	14.1	13.9
31 Stockton	113.5	119.0	118.3	.1	.1	.1	5.9	6.5	6.5	20.7	19.4	21.0
32 Vallejo-Fairfield-Napa	96.6	100.2	98.6	.3	.3	.3	4.9	5.2	5.3	9.9	11.2	11.1
33 COLORADO	1,144.3	1,195.1	1,185.5	28.5	31.1	31.6	78.4	80.2	82.9	167.6	179.3	180.5
34 Denver-Boulder	722.2	756.3	749.4	15.7	17.5	17.9	47.5	50.5	52.0	115.7	121.9	122.4
35 CONNECTICUT	1,364.6	1,417.0	1,397.6	(2)	(2)	(2)	53.3	53.6	54.4	420.8	435.6	428.1
36 Bridgeport	161.3	167.3	165.7	(2)	(2)	(2)	5.7	6.5	6.6	63.1	66.4	66.3
37 Hartford	371.6	387.9	382.5	(2)	(2)	(2)	13.5	13.7	14.0	89.1	92.9	92.9
38 New Britain	59.8	60.2	58.0	(2)	(2)	(2)	2.4	2.2	2.4	28.6	27.5	26.9
39 New Haven-West Haven	187.9	193.5	189.6	(2)	(2)	(2)	6.6	6.6	6.7	45.6	46.2	45.6
40 Stamford	103.6	108.3	107.6	(2)	(2)	(2)	5.1	5.4	5.4	30.2	31.0	30.9
41 Waterbury	86.2	89.9	88.9	(2)	(2)	(2)	3.5	3.6	3.8	32.3	32.7	32.9
42 DELAWARE	250.4	251.1	250.5	(1)	(1)	(1)	16.2	15.1	15.7	70.4	69.5	69.1
43 Wilmington	216.3	218.8	217.5	(1)	(1)	(1)	15.6	14.2	14.6	64.9	64.4	64.2
44 DISTRICT OF COLUMBIA	604.2	600.1	615.3	(1)	(1)	(1)	15.5	14.9	15.1	15.2	15.2	15.2
45 Washington SMSA	1,480.6	1,504.5	1,510.6	(1)	(1)	(1)	84.7	80.5	82.3	52.1	53.3	53.9
46 FLORIDA	3,110.5	3,282.3	3,255.2	9.3	9.7	9.8	214.7	227.0	231.7	412.7	447.4	440.4
47 Daytona Beach	70.5	75.4	74.0	(1)	(1)	(1)	4.0	4.5	4.5	7.1	8.1	7.8
48 Fort Lauderdale-Hollywood	284.4	297.8	295.3	(1)	(1)	(1)	22.9	24.0	24.9	35.1	38.0	38.3
49 Gainesville	59.8	62.6	62.7	(1)	(1)	(1)	3.4	3.2	3.3	3.9	3.8	3.9
50 Jacksonville	274.8	284.4	279.7	(1)	(1)	(1)	16.0	15.6	15.4	31.9	32.6	31.8
51 Miami	645.5	665.9	668.1	(1)	(1)	(1)	31.7	34.4	35.4	93.3	97.4	96.4
52 Orlando	248.7	264.1	263.2	(1)	(1)	(1)	15.3	16.4	16.5	30.9	34.3	34.1
53 Pensacola	93.0	96.1	95.9	(1)	(1)	(1)	6.3	6.7	6.7	13.2	13.3	13.2
54 Sarasota	60.7	62.6	62.7	(1)	(1)	(1)	6.4	6.5	6.4	6.0	6.8	6.8
55 Tallahassee	65.6	69.5	66.5	(1)	(1)	(1)	3.3	3.4	3.5	2.5	2.5	2.5
56 Tampa-St. Petersburg	467.0	488.7	482.4	(1)	(1)	(1)	31.0	33.0	32.9	65.5	69.6	69.6
57 West Palm Beach-Boca Raton	165.3	178.7	178.4	(1)	(1)	(1)	14.8	16.6	16.8	21.7	25.3	25.1
58 GEORGIA	1,987.9	2,026.6	2,013.0	7.6	7.9	7.8	100.9	97.0	95.7	505.8	518.9	517.3
59 Albany	40.4	44.1	43.7	(1)	(1)	(1)	2.7	4.5	4.1	10.1	11.4	11.3
60 Atlanta	847.6	865.7	858.2	(1)	(1)	(1)	39.4	38.9	38.0	132.3	135.0	134.2
61 Augusta	116.8	120.9	121.0	(1)	(1)	(1)	7.5	6.7	6.9	35.5	36.6	36.5
62 Columbus	80.1	81.1	81.7	(1)	(1)	(1)	5.2	4.8	4.9	20.1	20.8	20.7
63 Macon	94.2	95.8	94.8	(1)	(1)	(1)	4.6	4.6	4.5	15.5	14.6	14.6

See footnotes at end of table.



**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P
<b>GEORGIA—Continued</b>												
1 Savannah	84.6	85.1	83.1	(1)	(1)	(1)	6.1	5.6	5.2	16.9	16.8	16.7
<b>HAWAII</b>												
2 Honolulu	380.0	382.1	386.0	(1)	(1)	(1)	20.7	21.9	22.5	27.1	25.1	26.5
3 Honolulu	314.4	316.4	319.3	(1)	(1)	(1)	17.4	18.1	18.6	20.5	18.8	20.1
<b>IDAHO</b>												
4 Boise City	335.1	347.1	344.2	4.0	4.3	4.5	23.7	20.0	20.7	59.1	60.6	60.7
5 Boise City	81.6	86.7	(*)	(1)	(1)	(*)	7.1	7.1	(*)	9.4	10.3	(*)
<b>ILLINOIS</b>												
6 Bloomington-Normal	4,797.5	4,874.7	4,899.6	28.7	28.6	28.8	193.2	181.6	188.6	1,228.8	1,254.3	1,243.5
7 Chicago-Gary	45.9	46.4	47.1	(2)	(2)	(2)	1.8	1.5	1.6	6.6	6.5	6.9
8 Champaign-Urbana-Rantoul	66.2	69.1	69.4	(2)	(2)	(2)	3.0	3.1	3.2	7.5	8.2	8.1
9 Chicago SMSA <sup>3</sup>	3,438.0	3,502.4	(*)	4.9	5.1	(*)	153.3	151.8	(*)	935.1	958.3	(*)
10 Chicago SMSA <sup>3</sup>	3,183.1	3,240.8	3,261.7	4.8	5.0	5.0	135.4	134.0	137.5	832.4	852.5	845.2
11 Davenport-Rock Island-Moline	157.6	164.6	164.6	(2)	(2)	(2)	7.9	7.5	7.5	46.5	50.6	51.0
12 Decatur	52.6	55.7	54.8	(2)	(2)	(2)	3.3	3.3	3.5	19.2	19.3	19.2
13 Kankakee	33.4	33.0	33.6	(2)	(2)	(2)	1.2	1.1	1.2	9.4	9.3	9.4
14 Peoria	150.4	153.8	153.9	(2)	(2)	(2)	9.2	9.5	9.6	51.6	52.1	51.9
15 Rockford	120.2	124.7	123.7	(2)	(2)	(2)	3.8	3.4	3.6	55.0	57.8	57.6
16 Springfield	84.1	84.2	84.3	(2)	(2)	(2)	4.1	4.1	4.2	8.4	7.9	7.7
<b>INDIANA</b>												
17 Anderson	2,219.6	2,262.5	2,255.1	10.2	10.4	10.3	107.8	118.9	123.0	737.7	751.3	740.6
18 Evansville	52.4	53.2	51.4	(1)	(1)	(1)	1.3	1.2	1.2	24.8	25.4	23.9
19 Fort Wayne	127.4	126.5	126.7	2.6	2.6	2.6	8.0	7.8	8.0	40.0	39.2	38.9
20 Gary-Hammond-East Chicago <sup>3</sup>	173.8	180.6	180.3	(1)	(1)	(1)	7.8	7.9	8.2	61.5	63.2	63.5
21 Indianapolis	258.5	264.8	260.2	(1)	(1)	(1)	17.9	17.8	18.5	102.7	107.1	105.5
22 Lafayette-West Lafayette	510.2	524.6	524.8	(1)	(1)	(1)	19.5	19.8	20.7	128.8	132.7	131.4
23 Muncie	54.3	54.8	54.8	(1)	(1)	(1)	2.1	2.1	2.3	13.0	12.7	12.5
24 South Bend	47.3	49.5	48.9	(1)	(1)	(1)	2.0	2.1	2.0	13.3	15.0	14.7
25 Terre Haute	111.2	112.9	112.0	(1)	(1)	(1)	5.0	4.9	4.9	34.5	34.0	34.3
26 Terre Haute	62.2	64.2	64.1	1.4	1.5	1.5	2.1	2.7	2.9	17.7	17.1	17.0
<b>IOWA</b>												
27 Cedar Rapids	1,096.2	1,142.5	1,125.5	2.5	2.5	2.5	65.4	64.1	66.0	248.0	262.5	259.6
28 Des Moines	82.6	86.1	84.9	(1)	(1)	(1)	4.2	3.9	4.0	28.6	30.5	30.0
29 Dubuque	179.2	183.1	181.2	(1)	(1)	(1)	9.5	8.9	8.9	25.1	26.6	26.1
30 Sioux City	43.3	45.3	45.2	(1)	(1)	(1)	2.2	2.3	2.5	16.8	17.5	17.5
31 Waterloo-Cedar Falls	51.0	51.4	51.0	(1)	(1)	(1)	4.2	3.7	4.0	9.7	9.2	9.1
32 Waterloo-Cedar Falls	64.4	67.6	68.1	(1)	(1)	(1)	3.2	3.1	3.4	22.1	23.6	24.3
<b>KANSAS</b>												
33 Lawrence	914.9	958.3	943.8	12.8	13.2	13.4	51.4	55.7	56.3	188.4	201.8	197.7
34 Topeka	24.3	26.4	25.6	(2)	(2)	(2)	1.4	1.5	1.5	4.3	4.8	4.8
35 Wichita	84.8	87.7	86.2	.3	.3	.3	4.1	4.0	4.0	11.6	12.3	12.0
36 Wichita	192.6	206.2	206.1	2.1	2.2	2.2	10.8	12.5	12.7	59.0	67.2	67.6
<b>KENTUCKY</b>												
37 Lexington-Fayette	1,236.7	1,281.5	1,266.5	57.9	59.2	59.6	78.2	75.0	76.5	287.9	293.6	290.4
38 Louisville	140.2	151.4	149.1	(1)	(1)	(1)	8.5	9.8	10.1	29.4	30.7	30.7
39 Owensboro	396.8	413.6	416.4	(1)	(1)	(1)	22.2	22.1	22.1	105.3	107.7	107.4
40 Owensboro	30.5	31.9	31.4	.8	.8	.8	2.4	2.5	2.7	7.1	7.2	6.8
<b>LOUISIANA</b>												
41 Alexandria	1,416.6	1,442.5	1,442.2	73.7	76.8	77.5	119.8	123.4	125.4	207.8	212.9	210.9
42 Baton Rouge	50.0	50.3	50.7	(1)	(1)	(1)	3.6	3.3	3.6	6.3	6.4	6.5
43 Lafayette	188.4	182.7	184.1	.9	1.0	1.1	25.6	23.2	24.8	24.9	25.2	25.1
44 Lake Charles	63.1	67.4	67.9	11.4	12.2	12.2	5.3	6.3	6.5	3.6	3.8	3.9
45 Monroe	58.7	59.4	59.6	1.9	1.9	1.9	5.8	5.8	5.9	12.3	12.8	12.8
46 New Orleans	49.7	49.9	50.0	.4	.3	.3	5.1	4.4	4.6	8.5	8.9	8.8
47 Shreveport	474.7	479.4	472.9	16.2	16.1	16.3	29.4	28.7	28.7	52.3	53.5	53.1
48 Shreveport	141.5	144.3	145.7	5.2	5.6	5.5	9.8	11.0	11.1	28.3	27.7	28.0
<b>MAINE</b>												
49 Lewiston-Auburn	418.4	417.9	415.7	(1)	(1)	(1)	22.4	19.8	20.5	107.1	116.0	109.2
50 Portland	33.0	35.5	33.4	(1)	(1)	(1)	1.4	1.4	1.4	11.0	12.5	10.7
51 Portland	89.4	88.8	88.7	(1)	(1)	(1)	4.5	4.3	4.3	16.1	17.7	17.2
<b>MARYLAND</b>												
52 Baltimore	1,593.4	1,652.0	1,634.8	1.6	(1)	(1)	111.4	109.4	111.1	241.7	249.2	248.0
53 Baltimore	890.5	909.8	900.5	(1)	(1)	(1)	54.2	53.5	54.5	163.3	167.1	166.2
<b>MASSACHUSETTS<sup>4</sup></b>												
54 Boston	2,538.9	2,597.8	2,578.6	(1)	(1)	(1)	81.4	81.2	83.8	643.3	671.5	654.5
55 Brockton	1,382.8	1,411.9	1,398.6	(1)	(1)	(1)	41.4	42.2	43.1	284.0	289.1	285.2
56 Fall River	55.6	58.4	56.2	-	-	-	2.0	1.9	1.9	12.4	13.6	12.6
57 Lawrence-Haverhill	56.6	58.3	57.4	(1)	(1)	(1)	1.9	1.8	2.1	20.0	21.4	20.2
58 Lowell	108.2	109.0	106.9	(*)	(*)	(*)	3.1	3.1	3.1	41.0	40.3	38.9
59 New Bedford	70.5	75.4	74.1	(1)	(1)	(1)	2.9	2.9	3.0	23.4	26.0	25.3
60 Springfield-Chicopee-Holyoke	66.2	67.4	66.8	(1)	(1)	(1)	1.9	1.7	1.7	25.9	26.5	25.9
61 Springfield-Chicopee-Holyoke	230.1	237.6	238.0	(1)	(1)	(1)	6.1	6.2	6.3	66.5	67.7	67.3

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)

State and area	Total			Mining			Construction			Manufacturing		
	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P
<b>MASSACHUSETTS—Continued</b>												
1 Worcester .....	160.5	164.1	163.4	(1)	(1)	(1)	4.9	4.9	5.3	46.0	48.7	46.9
<b>MICHIGAN</b> .....	(*)	3,638.4	(*)	(*)	12.2	(*)	(*)	150.7	(*)	(*)	1,163.8	(*)
3 Ann Arbor .....	(*)	139.4	(*)	(*)	(1)	(*)	(*)	3.3	(*)	(*)	47.4	(*)
4 Battle Creek .....	(*)	68.4	(*)	(*)	(1)	(*)	(*)	2.2	(*)	(*)	24.6	(*)
5 Bay City .....	(*)	36.6	(*)	(*)	(1)	(*)	(*)	1.3	(*)	(*)	11.7	(*)
6 Detroit .....	(*)	1,820.1	(*)	(*)	1.2	(*)	(*)	66.1	(*)	(*)	594.4	(*)
7 Flint .....	(*)	208.6	(*)	(*)	(1)	(*)	(*)	7.1	(*)	(*)	90.1	(*)
8 Grand Rapids .....	(*)	263.8	(*)	(*)	(1)	(*)	(*)	14.3	(*)	(*)	92.8	(*)
9 Jackson .....	(*)	55.6	(*)	(*)	(1)	(*)	(*)	2.1	(*)	(*)	16.8	(*)
10 Kalamazoo-Portage .....	(*)	108.2	(*)	(*)	(1)	(*)	(*)	5.1	(*)	(*)	35.8	(*)
11 Lansing-East Lansing .....	(*)	199.2	(*)	(*)	(1)	(*)	(*)	7.5	(*)	(*)	47.7	(*)
12 Muskegon-Norton Shores-Musk. Hgts. ....	(*)	62.1	(*)	(*)	(1)	(*)	(*)	3.0	(*)	(*)	22.4	(*)
13 Saginaw .....	(*)	92.6	(*)	(*)	(1)	(*)	(*)	3.2	(*)	(*)	37.4	(*)
<b>MINNESOTA</b> .....	1,695.2	1,773.2	1,761.3	17.9	17.9	18.2	91.1	96.2	101.3	362.4	373.3	379.7
15 Duluth-Superior .....	62.9	64.2	64.0	(1)	(1)	(1)	2.6	2.6	2.7	8.1	8.7	8.5
16 Minneapolis-St. Paul .....	1,012.2	1,074.7	1,067.0	(1)	(1)	(1)	47.1	54.3	56.1	233.6	240.5	246.3
<b>MISSISSIPPI</b> .....	820.6	837.5	829.4	8.9	9.4	9.5	48.8	49.4	49.9	234.3	237.5	232.6
18 Jackson .....	139.3	145.7	144.3	1.1	1.2	1.2	8.3	10.2	10.4	19.1	18.8	19.0
<b>MISSOURI</b> .....	1,934.2	1,974.6	1,959.0	7.8	9.0	9.0	91.9	90.7	94.4	452.7	456.0	451.1
20 Kansas City .....	619.3	634.3	628.9	.5	.6	.6	30.0	32.4	32.7	122.0	128.0	122.8
21 St. Joseph .....	36.2	36.0	35.7	(2)	(2)	(2)	2.5	2.1	2.2	9.3	9.3	9.2
22 St. Louis .....	971.0	986.9	981.1	2.5	2.6	2.7	44.4	47.8	48.7	255.1	252.7	251.6
23 Springfield .....	79.9	83.0	81.5	(2)	(2)	(2)	4.1	4.4	4.4	18.1	18.2	18.2
<b>MONTANA</b> .....	288.3	299.5	303.7	7.6	8.2	8.3	18.8	18.6	18.8	27.3	28.2	28.8
25 Billings .....	45.5	46.9	47.5	(1)	(1)	(1)	2.5	2.9	2.9	4.1	4.2	4.3
26 Great Falls .....	31.1	31.8	31.4	(1)	(1)	(1)	2.1	2.3	2.1	1.9	1.9	1.9
<b>NEBRASKA</b> .....	605.4	626.2	619.5	1.7	1.7	1.7	37.1	36.7	37.3	92.9	97.0	97.1
28 Lincoln .....	97.1	102.1	97.5	(2)	(2)	(2)	5.1	5.1	5.2	13.7	14.2	14.1
29 Omaha .....	256.4	265.4	264.3	(2)	(2)	(2)	13.8	12.2	12.3	34.9	36.4	36.6
<b>NEVADA</b> .....	361.4	377.5	380.3	4.0	4.1	4.2	27.8	27.7	28.2	17.9	19.3	19.6
31 Las Vegas .....	189.8	198.9	201.5	.2	.2	.2	14.1	13.8	14.1	6.3	6.8	7.2
32 Reno .....	110.5	114.2	114.1	.6	.7	.7	9.4	9.1	9.0	8.0	8.6	8.6
<b>NEW HAMPSHIRE</b> .....	372.0	385.0	389.5	.5	.5	.5	21.4	20.7	22.4	108.2	114.4	111.9
34 Manchester .....	72.0	74.5	74.4	(2)	(2)	(2)	3.8	3.7	3.9	18.9	19.2	19.3
35 Nashua .....	55.6	60.0	59.5	(2)	(2)	(2)	3.1	3.4	3.5	24.8	26.8	26.5
<b>NEW JERSEY</b> .....	3,031.8	3,079.3	3,079.9	2.6	2.7	2.7	117.3	118.8	121.1	783.4	807.0	794.2
37 Atlantic City .....	81.2	87.0	89.9	-	-	-	3.8	7.2	7.2	8.8	8.3	8.3
38 Camden .....	327.2	333.5	329.4	.1	.1	.1	14.8	14.6	14.9	69.3	70.3	69.4
39 Hackensack .....	390.5	397.9	392.0	(1)	(1)	(1)	14.8	13.4	14.1	111.1	114.5	112.1
40 Jersey City .....	239.4	232.9	235.7	-	-	-	4.1	4.3	4.0	73.9	70.3	68.3
41 Long Branch-Asbury Park .....	161.4	161.9	162.1	(1)	(1)	(1)	7.0	6.2	6.0	23.8	24.2	24.2
42 New Bruns.-Perth Amboy-Sayreville .....	277.3	287.3	289.0	(1)	(1)	(1)	11.0	10.4	10.5	89.5	92.1	91.5
43 Newark .....	927.2	951.2	951.1	.9	.8	.9	34.0	34.7	34.7	247.2	260.2	257.9
44 Paterson-Clifton-Passaic .....	192.4	199.6	199.0	(1)	(1)	(1)	6.6	7.5	8.0	66.6	70.6	69.4
45 Trenton .....	160.3	164.9	164.2	(1)	(1)	(1)	3.4	2.8	3.1	36.4	37.7	37.1
46 Vineland-Millville-Bridgeton .....	57.1	58.9	58.2	(1)	(1)	(1)	1.9	2.0	1.9	19.1	19.7	19.0
<b>NEW MEXICO</b> .....	451.1	470.7	468.8	25.1	27.0	27.3	37.5	38.2	38.3	33.3	35.3	34.9
48 Albuquerque .....	180.2	186.6	186.6	(1)	(1)	(1)	16.2	15.9	16.2	17.2	17.9	17.9
<b>NEW YORK</b> .....	7,099.6	7,178.7	7,141.0	6.8	6.7	6.5	214.6	213.7	215.5	1,480.7	1,513.4	1,486.1
50 Albany-Schenectady-Troy .....	331.3	331.7	331.0	(1)	(1)	(1)	12.0	11.4	11.7	62.6	59.3	58.7
51 Binghamton .....	115.4	121.9	118.1	(1)	(1)	(1)	5.2	5.6	5.6	40.8	43.9	42.2
52 Buffalo .....	515.1	520.4	516.2	(1)	(1)	(1)	20.7	19.9	20.7	144.1	148.2	146.0
53 Elmira .....	38.0	37.2	37.6	(1)	(1)	(1)	1.6	1.3	1.3	11.6	11.0	11.6
54 Monroe County .....	328.7	341.5	338.8	(1)	(1)	(1)	11.4	10.4	11.1	132.6	138.4	138.0
55 Nassau-Suffolk .....	885.8	895.9	889.3	(1)	(1)	(1)	37.9	34.7	34.5	157.7	163.0	160.9
56 New York-Northeastern New Jersey .....	6,585.4	6,652.7	(*)	3.0	2.9	(*)	190.7	190.8	(*)	1,363.7	1,398.1	(*)
57 New York and Nassau-Suffolk .....	4,558.5	4,588.9	4,573.2	1.7	1.7	1.7	120.0	121.4	121.0	775.6	790.9	770.3
58 New York SMSA .....	3,672.8	3,693.0	3,683.9	1.5	1.5	1.5	82.1	86.7	86.5	617.8	627.9	609.4
59 New York City .....	3,241.7	3,260.8	3,251.0	1.3	1.3	1.3	64.3	69.9	69.6	529.5	537.3	518.9
60 Poughkeepsie .....	93.4	96.0	96.3	(1)	(1)	(1)	3.3	3.2	3.3	31.5	32.4	32.5
61 Rochester .....	406.9	418.3	415.8	(1)	(1)	(1)	13.9	12.8	13.7	153.7	158.8	159.0

See footnotes at end of table.





**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P
<b>NEW YORK—Continued</b>												
1 Rockland County <sup>9</sup>	80.2	78.9	79.6	(1)	(1)	(1)	2.6	2.1	2.2	15.8	15.7	15.7
2 Syracuse	254.5	260.7	255.8	(1)	(1)	(1)	10.1	11.1	11.2	59.9	61.7	59.5
3 Utica-Rome	116.1	119.2	117.8	(1)	(1)	(1)	3.7	4.1	4.2	31.7	32.5	31.8
4 Westchester County <sup>9</sup>	338.2	340.9	341.0	(1)	(1)	(1)	14.4	13.8	13.9	71.2	73.7	73.6
<b>5 NORTH CAROLINA</b>	<b>2,233.8</b>	<b>2,346.2</b>	<b>2,304.0</b>	<b>4.8</b>	<b>4.9</b>	<b>4.9</b>	<b>116.3</b>	<b>123.4</b>	<b>126.9</b>	<b>796.1</b>	<b>814.8</b>	<b>809.1</b>
6 Asheville	69.5	69.9	70.3	(1)	(1)	(1)	3.9	3.5	3.4	21.4	21.5	21.2
7 Charlotte-Gastonia	305.7	316.0	310.7	(1)	(1)	(1)	16.4	16.2	16.5	86.5	88.7	88.0
8 Greensboro-Winston-Salem—High Pt.	367.3	380.2	373.2	(1)	(1)	(1)	17.6	16.0	16.2	145.7	147.8	147.7
9 Raleigh-Durham	243.0	252.8	250.6	(1)	(1)	(1)	13.0	13.1	13.2	38.9	42.2	41.9
<b>10 NORTH DAKOTA</b>	<b>236.0</b>	<b>249.0</b>	<b>247.4</b>	<b>4.7</b>	<b>5.7</b>	<b>6.0</b>	<b>22.6</b>	<b>24.2</b>	<b>24.6</b>	<b>15.4</b>	<b>17.1</b>	<b>16.8</b>
11 Fargo-Moorhead	60.1	62.6	62.1	(2)	(2)	(2)	5.2	5.3	5.5	5.0	5.3	5.3
<b>12 OHIO</b>	<b>4,407.4</b>	<b>4,554.4</b>	<b>4,495.9</b>	<b>33.1</b>	<b>31.9</b>	<b>32.1</b>	<b>200.0</b>	<b>198.6</b>	<b>206.3</b>	<b>1,376.5</b>	<b>1,394.5</b>	<b>1,379.1</b>
13 Akron	265.0	272.2	271.5	.4	.4	.4	9.9	9.7	10.1	84.9	84.9	84.5
14 Canton	156.4	163.2	162.9	1.2	1.2	1.2	7.5	7.3	7.6	57.2	59.5	59.8
15 Cincinnati	598.0	626.6	621.5	.4	.4	.4	28.8	28.9	30.1	171.1	174.4	174.5
16 Cleveland	918.8	942.0	932.7	1.6	1.4	1.4	36.0	35.8	37.4	276.6	283.5	279.7
17 Columbus	495.5	515.4	510.8	.9	.9	.9	23.3	23.4	24.3	101.4	98.1	99.0
18 Dayton	353.4	369.5	362.2	.5	.5	.5	15.4	16.2	16.8	111.5	110.3	108.7
19 Toledo	301.2	314.8	306.0	.6	.6	.6	13.1	13.2	12.9	92.1	91.4	90.4
20 Youngstown-Warren	212.0	219.0	217.9	.5	.5	.5	9.1	9.2	9.7	79.3	80.4	80.6
<b>21 OKLAHOMA</b>	<b>1,030.1</b>	<b>1,080.3</b>	<b>1,075.4</b>	<b>55.5</b>	<b>59.2</b>	<b>59.6</b>	<b>60.6</b>	<b>59.1</b>	<b>60.5</b>	<b>172.7</b>	<b>180.1</b>	<b>179.9</b>
22 Oklahoma City	360.3	387.9	388.0	12.6	13.2	13.3	20.5	21.0	21.3	47.4	53.4	53.4
23 Tulsa	271.8	277.5	278.8	17.9	18.2	18.3	15.5	14.5	15.1	57.0	58.5	58.9
<b>24 OREGON</b>	<b>1,003.2</b>	<b>1,066.5</b>	<b>(*)</b>	<b>2.1</b>	<b>2.2</b>	<b>(*)</b>	<b>53.6</b>	<b>57.3</b>	<b>(*)</b>	<b>223.7</b>	<b>231.4</b>	<b>(*)</b>
25 Eugene-Springfield	102.6	107.7	(*)	(1)	(1)	(*)	6.1	5.4	(*)	21.8	21.2	(*)
26 Jackson County	-	-	-	-	-	-	-	-	-	8.0	7.9	8.1
27 Portland	525.2	549.0	544.1	(1)	(1)	(1)	28.7	27.9	28.4	111.4	115.6	117.5
28 Salem	85.3	91.3	89.2	(1)	(1)	(1)	5.1	5.0	5.2	14.9	14.8	16.0
<b>29 PENNSYLVANIA</b>	<b>4,709.7</b>	<b>4,757.2</b>	<b>4,695.7</b>	<b>54.4</b>	<b>52.7</b>	<b>51.9</b>	<b>219.1</b>	<b>198.5</b>	<b>203.7</b>	<b>1,366.6</b>	<b>1,387.3</b>	<b>1,372.0</b>
30 Allentown-Bethlehem-Easton	258.4	261.9	259.5	(1)	(1)	(1)	10.2	8.8	8.8	108.6	110.9	110.0
31 Altoona	52.9	52.6	52.5	(1)	(1)	(1)	2.5	2.1	2.1	12.8	12.9	12.9
32 Delaware Valley <sup>10</sup>	1,554.9	1,573.5	1,559.7	(1)	(1)	(1)	60.2	60.2	59.9	379.8	387.1	384.5
33 Erie	115.6	115.8	117.2	(1)	(1)	(1)	4.8	2.6	3.7	43.6	45.2	44.8
34 Harrisburg	216.2	215.9	214.6	(1)	(1)	(1)	10.4	8.1	8.5	41.2	43.0	42.7
35 Johnstown	88.7	90.9	90.4	9.8	9.1	9.1	3.3	3.0	3.1	20.2	20.6	20.8
36 Lancaster	148.2	151.6	149.4	(1)	(1)	(1)	8.8	8.7	8.6	60.3	60.4	60.2
37 Northeast Pennsylvania	243.8	242.0	240.3	1.2	1.2	1.2	13.8	12.7	12.7	71.3	71.4	68.5
38 Philadelphia SMSA	1,880.5	1,907.2	1,889.5	(1)	(1)	(1)	75.0	74.8	74.8	449.3	457.5	454.0
39 Philadelphia City <sup>11</sup>	798.3	797.1	796.2	(1)	(1)	(1)	19.0	18.7	19.1	151.5	149.7	147.4
40 Pittsburgh	955.4	956.0	953.1	12.3	11.5	11.2	55.0	46.2	51.9	255.1	258.9	260.4
41 Reading	133.5	140.2	138.6	(1)	(1)	(1)	5.6	5.3	5.5	52.0	54.1	53.5
42 Scranton <sup>12</sup>	86.7	86.7	85.6	(1)	(1)	(1)	2.3	2.2	2.3	27.1	28.4	26.8
43 Wilkes-Barre-Hazleton <sup>13</sup>	128.3	126.1	125.1	1.1	1.1	1.1	10.0	9.0	8.9	39.9	38.5	37.2
44 Williamsport	49.3	50.7	49.8	(1)	(1)	(1)	2.1	2.2	2.3	18.3	18.6	18.1
45 York	151.3	153.6	151.2	(1)	(1)	(1)	7.4	7.0	7.1	63.9	65.4	64.2
<b>46 RHODE ISLAND</b>	<b>400.7</b>	<b>399.8</b>	<b>400.1</b>	<b>(1)</b>	<b>(1)</b>	<b>(1)</b>	<b>15.4</b>	<b>11.6</b>	<b>14.3</b>	<b>133.9</b>	<b>136.9</b>	<b>131.6</b>
47 Providence-Warwick-Pawtucket	410.6	410.7	409.5	(1)	(1)	(1)	15.5	11.7	14.5	150.1	153.1	147.0
<b>48 SOUTH CAROLINA</b>	<b>1,133.7</b>	<b>1,181.9</b>	<b>1,165.2</b>	<b>1.9</b>	<b>2.0</b>	<b>2.0</b>	<b>72.4</b>	<b>68.4</b>	<b>68.5</b>	<b>385.4</b>	<b>396.7</b>	<b>391.3</b>
49 Charleston-North Charleston	139.8	143.8	144.4	(1)	(1)	(1)	11.1	11.0	11.1	19.1	19.5	19.3
50 Columbia	167.2	172.4	171.8	(1)	(1)	(1)	8.7	8.2	8.2	25.8	26.9	26.9
51 Greenville-Spartanburg	250.0	259.3	254.5	(1)	(1)	(1)	17.1	15.8	16.2	102.4	106.1	103.7
<b>52 SOUTH DAKOTA</b>	<b>237.8</b>	<b>244.4</b>	<b>239.7</b>	<b>2.7</b>	<b>2.8</b>	<b>2.8</b>	<b>14.9</b>	<b>14.7</b>	<b>15.2</b>	<b>24.8</b>	<b>26.1</b>	<b>26.5</b>
53 Rapid City	29.1	29.9	29.4	(2)	(2)	(2)	3.1	2.9	2.9	2.7	2.7	2.6
54 Sioux Falls	53.2	54.0	53.4	(2)	(2)	(2)	4.0	4.2	4.0	7.3	7.5	7.6
<b>55 TENNESSEE</b>	<b>1,695.5</b>	<b>1,734.3</b>	<b>1,713.7</b>	<b>10.7</b>	<b>10.7</b>	<b>10.5</b>	<b>91.1</b>	<b>97.9</b>	<b>97.7</b>	<b>513.0</b>	<b>518.5</b>	<b>510.5</b>
56 Chattanooga	168.3	168.0	165.9	1.4	1.3	1.3	7.7	7.2	7.1	55.2	54.4	53.7
57 Knoxville	193.1	197.1	(*)	1.7	1.6	(*)	12.9	12.5	(*)	48.6	53.6	(*)
58 Memphis	350.0	353.2	353.5	.2	.2	.2	13.8	14.2	14.3	63.9	63.9	63.4
59 Nashville-Davidson	349.4	352.9	349.8	(1)	(1)	(1)	20.9	21.8	21.6	81.5	81.3	80.0

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	
3.4	3.4	3.4	17.0	17.5	17.4	2.5	2.4	2.5	17.5	16.6	17.5	21.5	21.2	20.9	1
14.6	14.8	14.9	58.2	59.3	59.3	15.4	15.6	15.7	48.0	48.6	47.8	48.4	49.7	47.4	2
3.9	4.1	4.0	22.1	22.2	22.2	5.6	5.6	5.6	20.0	20.7	20.9	29.2	30.1	29.2	3
17.7	18.0	17.8	78.6	79.6	79.2	17.0	17.2	17.4	83.5	84.3	86.1	55.8	54.2	53.1	4
108.1	113.6	113.9	440.1	457.3	459.8	87.0	88.7	89.8	326.4	330.8	339.1	355.0	412.7	360.5	5
3.5	3.5	3.5	13.9	14.0	14.2	2.2	2.3	2.4	13.6	13.6	14.3	11.0	11.5	11.3	6
28.9	29.7	29.6	74.8	77.8	77.7	19.9	20.0	20.3	47.1	46.8	47.0	32.1	36.8	31.6	7
20.4	21.5	21.2	74.5	76.9	76.8	17.3	17.6	17.7	53.9	54.4	55.2	37.9	46.0	38.4	8
12.3	13.1	13.3	47.5	48.7	48.7	14.6	14.9	15.0	51.3	52.7	53.6	65.4	68.1	64.9	9
14.7	16.1	16.1	66.6	68.9	69.2	10.7	11.1	11.2	45.1	47.6	47.3	56.2	58.3	56.2	10
4.1	4.3	4.4	18.8	19.2	19.2	3.7	3.9	3.9	12.3	13.1	13.2	11.0	11.5	10.6	11
226.0	237.4	237.3	967.3	995.3	995.3	194.9	203.0	205.3	784.7	832.5	829.2	625.0	661.2	611.2	12
14.6	15.1	15.0	59.6	62.3	62.4	9.2	9.7	9.7	48.5	50.2	50.8	37.8	39.9	38.6	13
6.9	7.4	7.4	34.2	35.6	35.7	5.5	5.9	6.0	27.3	29.0	28.8	16.6	17.2	16.3	14
33.4	35.9	35.7	138.0	143.2	142.9	30.8	32.2	32.4	117.9	128.8	128.9	77.6	82.8	76.7	15
48.0	49.5	49.8	210.7	216.0	216.9	46.6	46.7	47.3	179.6	193.2	190.7	119.7	116.0	109.5	16
24.8	27.1	27.0	117.6	123.9	124.5	34.7	37.0	37.3	97.3	103.0	102.7	95.6	102.0	95.1	17
12.9	14.1	14.1	74.6	78.4	78.0	12.7	13.2	13.3	64.4	69.7	68.7	61.4	66.9	62.1	18
20.6	21.6	21.4	68.2	71.6	70.8	10.2	10.6	10.5	56.3	59.2	59.3	40.1	46.8	40.0	19
10.3	10.4	10.5	46.7	48.5	48.4	6.8	6.9	6.9	36.0	37.4	37.4	23.3	25.6	23.8	20
62.1	64.3	64.6	246.6	254.8	255.5	51.5	53.5	53.8	172.6	183.5	184.8	208.5	225.8	216.7	21
21.6	22.7	22.8	87.5	94.5	94.8	23.2	24.4	24.4	62.6	67.3	67.6	84.9	91.4	90.4	22
20.7	21.1	21.2	66.9	67.5	67.5	13.6	14.2	14.3	52.4	54.9	54.9	27.8	28.6	28.6	23
57.4	60.5	(*)	243.3	258.2	(*)	64.9	67.4	(*)	174.9	179.3	(*)	183.3	210.2	(*)	24
5.2	5.5	(*)	25.8	26.4	(*)	5.3	5.2	(*)	18.8	19.1	(*)	19.6	24.9	(*)	25
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
34.4	35.8	36.0	132.1	136.9	137.0	41.4	43.0	43.3	101.3	104.3	103.4	75.9	85.5	78.5	27
3.1	3.4	3.4	18.3	18.7	18.7	5.3	5.5	5.6	13.5	13.6	13.6	25.1	30.3	26.7	28
262.3	272.5	266.3	967.1	970.3	957.3	229.9	238.6	239.5	891.1	919.6	911.2	719.2	717.7	693.8	29
13.6	14.1	14.2	48.9	49.5	48.9	8.4	8.6	8.7	38.6	39.6	39.8	30.1	30.4	29.1	30
8.3	7.8	7.7	11.9	11.8	12.0	1.3	1.3	1.3	8.5	8.8	8.9	7.6	7.9	7.6	31
83.1	84.1	82.5	323.2	331.0	324.1	104.7	107.6	108.2	360.3	365.7	363.5	243.6	237.8	237.0	32
5.1	5.1	5.2	22.9	24.3	24.4	4.5	4.5	4.5	20.0	19.9	19.8	14.7	14.2	14.8	33
16.2	16.0	16.3	44.4	44.2	44.0	12.0	11.9	11.9	36.9	36.7	37.1	55.1	56.0	54.1	34
5.2	5.3	5.1	16.7	17.0	17.0	3.7	3.7	3.7	14.9	15.6	15.5	14.9	16.6	16.1	35
6.4	6.7	6.6	33.2	34.6	34.1	5.1	5.4	5.4	20.6	21.0	21.0	13.8	14.8	13.5	36
13.3	13.7	13.5	52.1	52.2	51.4	9.2	9.7	9.6	42.3	42.7	43.3	40.6	38.5	40.1	37
98.8	100.2	98.2	406.7	415.9	408.2	120.2	123.5	124.2	425.4	433.3	431.1	305.1	302.0	299.0	38
56.2	56.8	56.5	149.7	151.8	150.2	68.7	69.9	70.3	199.8	203.4	200.5	153.4	146.8	152.2	39
57.7	58.4	58.5	210.0	215.2	214.9	44.2	45.2	45.1	196.4	195.6	195.7	124.7	125.0	115.4	40
5.9	6.6	6.5	26.6	28.0	27.9	5.8	6.0	6.1	22.0	23.5	23.4	15.6	16.7	15.7	41
4.6	4.7	4.6	19.2	19.4	19.2	3.3	3.5	3.4	16.7	17.0	16.7	13.5	11.5	12.6	42
6.7	6.9	7.0	27.7	27.3	26.8	5.1	5.4	5.3	17.7	18.3	18.4	20.1	19.6	20.4	43
2.5	2.6	2.5	9.9	10.4	10.3	1.9	2.0	2.0	7.4	7.8	7.8	7.2	7.1	6.8	44
7.0	6.9	6.9	31.4	31.5	31.6	3.9	4.3	4.3	19.5	19.8	19.6	18.2	18.7	17.5	45
13.5	13.6	13.6	80.7	79.9	79.9	20.1	20.2	20.5	76.8	77.2	79.1	60.3	60.4	61.1	46
13.3	13.5	13.5	81.0	80.8	80.4	20.3	20.5	20.7	73.5	73.9	75.6	56.9	57.2	57.8	47
50.1	52.0	52.3	215.4	224.6	226.0	44.9	46.7	47.1	150.5	160.5	161.8	213.1	231.0	216.2	48
8.8	8.7	8.9	30.4	30.9	31.0	6.0	6.3	6.3	21.5	22.7	23.3	42.9	44.7	44.5	49
8.7	9.2	9.2	37.3	38.4	38.1	13.0	13.7	13.8	24.8	26.1	25.8	48.9	49.9	49.8	50
10.2	10.3	10.3	48.5	49.7	49.6	8.8	8.8	8.8	32.7	34.8	34.9	30.3	33.8	31.0	51
13.2	13.8	13.2	64.9	62.8	63.1	11.2	11.7	11.7	50.5	50.9	50.3	55.6	61.6	56.9	52
1.9	1.9	1.9	8.5	9.1	9.2	1.5	1.4	1.4	6.4	6.2	6.0	5.0	5.7	5.4	53
4.8	4.8	4.8	15.9	15.3	15.6	3.4	3.1	3.1	11.5	11.7	11.8	6.3	7.4	6.5	54
83.4	83.8	84.2	368.3	368.3	368.6	74.3	76.1	76.0	266.2	274.7	274.0	288.5	304.3	292.2	55
6.8	6.8	6.9	30.9	30.7	30.5	9.4	9.7	9.7	26.1	26.0	26.0	30.8	31.9	30.7	56
7.7	7.9	(*)	42.3	41.6	(*)	7.9	8.1	(*)	30.3	30.4	(*)	41.7	41.4	(*)	57
25.6	26.1	26.3	93.6	94.0	94.0	19.1	19.3	19.3	68.2	70.1	70.7	65.6	65.4	65.3	58
19.1	19.7	19.6	80.1	80.5	80.5	21.9	22.6	22.7	65.3	65.5	64.0	60.6	61.5	61.4	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		
	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P
1 TEXAS .....	5,262.7	5,505.3	5,515.6	186.0	196.8	200.0	393.4	407.8	411.2	960.3	1,001.8	1,001.9
2 Amarillo .....	71.6	73.1	72.8	(1)	(1)	(1)	5.0	5.5	5.5	8.6	9.7	9.6
3 Austin .....	216.3	224.6	225.9	(1)	(1)	(1)	13.4	14.4	14.5	26.2	27.6	27.7
4 Beaumont-Port Arthur-Orange .....	145.2	144.0	143.1	(1)	(1)	(1)	14.3	13.9	14.2	41.6	41.5	41.3
5 Corpus Christi .....	111.2	114.0	114.3	5.0	5.1	5.2	11.8	12.9	13.3	14.0	14.5	14.3
6 Dallas-Fort Worth .....	1,286.8	1,364.8	1,367.2	19.2	20.9	21.3	70.9	78.3	79.5	287.6	303.8	304.7
7 El Paso .....	149.7	155.3	155.3	(1)	(1)	(1)	9.1	8.0	7.9	30.1	31.9	31.5
8 Galveston-Texas City .....	69.3	67.5	67.6	(1)	(1)	(1)	4.7	4.6	4.6	12.2	12.2	12.2
9 Houston .....	1,273.4	1,319.2	1,318.6	62.8	62.4	62.1	141.2	142.8	142.4	210.8	217.7	217.9
10 Lubbock .....	85.1	86.4	86.8	(1)	(1)	(1)	5.5	5.8	6.0	13.4	12.1	12.2
11 San Antonio .....	365.5	371.3	370.2	2.0	1.9	1.9	24.8	24.9	25.3	47.1	47.4	47.6
12 Waco .....	65.7	67.4	67.8	(1)	(1)	(1)	3.8	3.5	3.3	16.2	17.2	17.2
13 Wichita Falls .....	49.1	50.1	49.9	2.7	2.6	2.6	2.5	2.8	2.9	9.2	9.5	9.5
14 UTAH .....	520.1	561.3	550.6	16.6	17.8	18.0	37.6	40.0	39.7	81.0	85.5	85.9
15 Salt Lake City-Ogden .....	372.7	398.0	392.9	7.1	7.6	7.6	25.9	27.5	27.3	53.8	57.2	57.5
16 VERMONT .....	190.9	195.4	195.9	.8	.8	.8	11.4	10.1	10.4	47.7	50.3	49.8
17 Burlington <sup>14</sup> .....	50.1	53.8	52.7	-	-	-	-	-	-	12.9	13.7	13.8
18 Springfield <sup>14</sup> .....	14.0	14.8	14.7	-	-	-	-	-	-	5.8	6.2	6.2
19 VIRGINIA .....	2,064.8	2,125.2	2,119.3	24.8	25.5	25.7	143.8	145.7	148.3	407.7	408.0	411.0
20 Bristol .....	27.2	28.1	28.2	(1)	(1)	(1)	1.6	1.6	1.7	9.1	9.9	9.8
21 Lynchburg .....	69.0	70.8	72.1	(1)	(1)	(1)	3.9	4.0	4.2	28.8	28.4	29.8
22 Newport News-Hampton .....	147.9	149.9	151.1	(1)	(1)	(1)	8.7	7.9	8.2	34.0	33.2	33.3
23 Norfolk-Virginia Beach-Portsmouth .....	280.4	284.6	282.7	(1)	(1)	(1)	20.4	19.8	20.4	29.5	29.4	29.7
24 Northern Virginia <sup>15</sup> .....	413.5	424.4	421.4	.3	.4	.4	30.6	29.8	30.4	15.5	16.1	16.5
25 Petersburg-Colonial Hgts.-Hopewell .....	46.7	48.7	48.6	(1)	(1)	(1)	2.7	2.7	2.7	11.7	11.8	11.6
26 Richmond .....	319.1	325.8	320.0	.4	.4	.4	20.1	19.8	20.0	53.5	54.4	54.7
27 Roanoke .....	103.0	105.2	104.8	.2	.1	.1	6.6	6.2	6.3	21.4	20.9	20.9
28 WASHINGTON .....	1,506.3	1,634.2	(*)	2.9	3.2	(*)	100.5	113.0	(*)	292.6	314.6	(*)
29 Seattle-Everett .....	706.7	764.7	(*)	(1)	(1)	(*)	42.6	49.4	(*)	150.7	168.8	(*)
30 Spokane .....	124.0	130.7	(*)	(1)	(1)	(*)	9.2	8.2	(*)	18.4	18.7	(*)
31 Tacoma .....	132.8	143.6	(*)	(1)	(1)	(*)	8.7	9.9	(*)	21.2	22.2	(*)
32 WEST VIRGINIA .....	638.3	620.9	627.1	75.0	69.7	69.9	42.8	29.7	39.4	124.5	124.2	122.3
33 Charleston .....	111.8	107.8	109.0	6.7	6.6	6.6	7.4	4.6	5.3	19.7	19.3	19.2
34 Huntington-Ashland .....	104.2	101.3	104.8	1.0	1.0	1.0	6.6	4.4	7.0	29.1	29.2	28.9
35 Parkersburg-Marietta .....	57.1	55.8	57.4	.5	.5	.5	3.7	2.4	4.2	18.1	18.2	17.9
36 Wheeling .....	65.5	65.1	64.5	7.2	7.0	6.8	4.2	2.8	3.0	13.6	13.5	13.4
37 WISCONSIN .....	1,887.4	1,980.2	1,971.5	2.9	3.0	3.1	91.6	94.0	95.9	568.8	579.0	580.4
38 Appleton-Oshkosh .....	122.0	127.6	127.1	(1)	(1)	(1)	6.6	7.2	7.5	48.3	49.9	50.6
39 Eau Claire .....	43.8	43.2	44.4	(1)	(1)	(1)	2.0	1.8	1.8	9.2	6.8	8.5
40 Green Bay .....	75.3	77.2	77.6	(1)	(1)	(1)	4.1	3.8	3.9	21.6	21.6	22.3
41 Kenosha .....	42.1	44.6	43.2	(1)	(1)	(1)	1.5	1.5	1.5	16.8	18.5	17.7
42 La Crosse .....	40.0	43.2	42.8	(1)	(1)	(1)	1.6	1.9	1.9	10.5	11.0	11.0
43 Madison .....	158.0	163.3	162.0	(1)	(1)	(1)	8.6	8.0	8.5	20.0	19.0	18.7
44 Milwaukee .....	649.7	677.9	674.5	(1)	(1)	(1)	25.2	26.3	26.2	208.4	212.8	211.6
45 Racine .....	69.7	72.8	71.7	(1)	(1)	(1)	2.7	2.6	2.6	30.4	32.3	31.5
46 WYOMING .....	195.6	216.0	216.3	29.2	33.7	34.7	24.1	26.8	28.2	9.6	10.5	10.7
47 Casper .....	36.6	45.7	47.1	7.5	10.8	11.6	3.9	6.1	6.3	1.7	1.8	1.9
48 Cheyenne .....	26.2	28.0	27.7	(1)	(1)	(1)	2.1	2.7	3.0	1.5	1.5	1.5

1 Combined with services.  
 2 Combined with construction.  
 3 Area included in Chicago-Gary Standard Consolidated Statistical Area.  
 4 Revised to 1978 benchmark; not strictly comparable with previously published data.  
 5 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.  
 6 Subarea of New York-Northeastern New Jersey.  
 7 Subarea of Rochester Standard Metropolitan Statistical Area.  
 8 Area included in New York and Nassau-Suffolk combined SMSA's.  
 9 Subarea of New York Standard Metropolitan Statistical Area.  
 10 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

11 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.  
 12 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.  
 13 Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.  
 14 Total includes data for industry divisions not shown separately.  
 15 Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.  
 p = preliminary.  
 \* Not available.

SOURCE—Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	
336.0	354.0	355.4	1,283.2	1,338.5	1,338.4	300.4	312.0	313.4	896.1	932.6	935.4	907.3	961.8	959.9	1
6.9	6.9	6.9	22.3	21.5	21.6	3.6	3.6	3.6	14.1	14.7	14.7	11.1	11.2	10.9	2
6.7	6.6	6.6	44.1	46.2	46.7	13.2	13.3	13.4	35.7	37.5	37.6	77.0	79.0	79.4	3
11.1	11.6	11.0	31.9	30.2	30.2	5.3	5.5	5.5	23.4	23.7	23.9	17.6	17.6	17.0	4
6.5	6.4	6.3	26.5	26.3	26.5	5.2	5.3	5.4	17.6	18.7	18.6	24.6	24.8	24.7	5
83.6	88.5	89.7	339.6	358.9	360.7	96.0	100.3	100.8	227.1	242.1	243.0	162.8	172.0	167.5	6
10.5	10.4	10.6	37.4	38.7	39.2	6.9	7.3	7.3	24.8	25.8	25.6	30.9	33.2	33.2	7
6.8	6.8	6.8	13.4	12.5	12.5	4.5	4.6	4.6	10.9	10.4	10.4	16.9	16.4	16.5	8
94.8	99.6	97.9	302.6	314.1	315.1	76.2	79.8	80.5	247.6	258.2	258.2	137.4	144.6	144.5	9
5.0	5.1	5.1	25.3	25.5	25.3	4.4	4.6	4.6	15.0	16.0	16.1	16.5	17.3	17.5	10
15.8	17.0	17.0	91.3	93.9	93.9	24.6	25.0	25.1	68.0	69.6	69.4	91.9	91.6	90.0	11
3.2	3.3	3.3	14.9	15.4	15.5	3.7	4.0	4.1	12.5	13.0	13.2	11.4	11.0	11.2	12
2.4	2.4	2.4	12.2	12.1	12.1	2.2	2.3	2.3	7.4	7.5	7.5	10.5	10.9	10.6	13
32.7	34.9	35.1	127.9	135.5	134.2	24.7	26.4	26.1	90.4	99.5	99.4	109.2	121.7	112.3	14
25.9	27.3	27.6	94.6	100.6	99.8	20.1	21.6	21.4	63.3	69.5	69.7	82.0	86.8	82.0	15
8.7	9.0	8.9	40.2	41.9	42.2	7.5	7.7	7.9	42.7	40.6	43.5	31.9	35.0	32.4	16
2.3	2.2	2.3	10.8	11.8	11.8	-	-	-	10.4	11.1	11.2	-	-	-	17
.7	.7	.7	2.2	2.3	2.3	-	-	-	2.7	2.7	2.8	-	-	-	18
104.0	114.5	114.0	433.0	444.3	443.7	99.7	102.4	103.3	369.5	379.5	378.0	482.3	505.3	495.3	19
1.0	1.0	1.0	6.3	6.4	6.5	.9	.9	.9	3.2	3.4	3.4	5.1	4.9	4.9	20
2.5	2.7	2.7	11.4	12.1	11.9	3.1	3.4	3.4	9.5	10.3	10.4	9.8	9.9	9.7	21
5.0	5.1	5.1	27.5	27.7	28.6	5.0	5.0	5.1	28.1	29.0	29.9	39.6	42.0	40.9	22
17.4	18.5	18.3	68.9	69.9	70.5	14.8	14.9	15.0	52.1	51.4	51.7	77.3	80.7	77.1	23
28.0	28.7	29.0	97.0	100.1	99.4	25.7	26.5	26.8	100.5	104.9	104.4	115.9	117.9	114.5	24
1.4	1.6	1.6	8.9	8.9	8.7	1.3	1.3	1.3	5.8	6.1	6.0	14.9	16.3	16.7	25
19.0	20.3	20.1	73.4	72.1	71.5	25.0	26.1	26.3	56.7	57.5	57.1	71.0	75.2	69.9	26
7.1	10.0	10.0	25.6	26.0	26.0	5.8	6.0	6.0	19.2	19.4	19.2	17.1	16.6	16.3	27
85.4	94.4	(*)	369.2	395.4	(*)	86.2	91.7	(*)	280.4	302.7	(*)	289.1	319.2	(*)	28
47.3	51.8	(*)	173.5	183.4	(*)	50.6	51.9	(*)	132.4	143.9	(*)	109.6	119.5	(*)	29
8.1	7.9	(*)	34.6	36.3	(*)	8.1	8.0	(*)	27.1	28.9	(*)	18.5	22.7	(*)	30
6.6	7.2	(*)	32.3	34.4	(*)	6.8	7.1	(*)	27.6	29.3	(*)	29.6	33.5	(*)	31
40.0	42.7	42.7	126.8	128.3	127.8	20.7	21.1	21.1	88.2	90.3	89.0	120.3	115.0	114.9	32
9.5	9.6	9.8	25.4	25.6	25.6	4.9	4.9	4.9	18.5	18.7	18.7	19.6	18.3	18.9	33
9.2	9.3	9.6	22.8	23.3	23.2	3.7	3.7	3.7	14.2	14.3	14.4	17.7	16.1	17.0	34
2.6	2.6	2.6	12.2	12.2	12.2	1.9	1.9	1.9	8.4	8.4	8.2	9.9	9.8	10.0	35
3.8	3.7	3.8	14.4	15.2	15.1	2.4	2.5	2.5	12.3	12.9	12.5	7.5	7.5	7.5	36
79.7	91.5	88.3	434.3	462.3	463.4	87.5	90.7	91.8	341.8	358.9	363.8	280.7	300.8	284.8	37
3.9	4.3	4.0	24.8	26.0	25.9	4.8	5.1	5.1	19.7	20.2	20.2	13.8	15.0	13.7	38
2.5	2.6	2.6	11.6	12.3	12.6	1.4	1.4	1.4	9.0	9.6	9.7	8.0	8.5	7.8	39
5.2	5.5	5.5	19.0	19.8	20.1	2.7	2.8	2.8	12.8	13.4	13.2	9.7	10.4	9.9	40
2.5	1.8	1.6	8.2	8.6	8.6	.9	1.0	1.0	6.9	7.6	7.4	5.5	5.7	5.5	41
2.4	3.2	3.2	10.5	11.2	11.1	1.0	1.0	1.0	8.7	9.2	9.2	5.4	5.8	5.4	42
5.5	5.9	5.8	34.8	36.1	36.1	11.8	12.7	12.9	27.4	28.9	29.0	50.0	52.7	51.0	43
31.8	34.4	33.2	146.4	155.2	154.7	36.0	36.4	36.7	129.1	137.3	139.4	72.9	75.5	72.8	44
2.3	2.5	2.5	12.7	13.3	13.2	2.2	2.3	2.3	10.8	11.1	11.0	8.6	8.8	8.7	45
14.9	17.1	17.5	45.3	49.6	50.7	6.6	7.1	7.2	29.6	31.3	31.4	36.3	39.9	35.9	46
2.6	2.7	2.8	9.9	12.7	13.0	1.4	1.5	1.5	5.2	5.6	5.4	4.4	4.5	4.6	47
3.6	3.8	3.8	6.7	7.7	7.9	1.5	1.6	1.6	4.5	3.6	3.8	6.3	7.1	6.1	48



# 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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
-	<b>TOTAL PRIVATE</b> .....	\$206.55	\$206.70	\$219.35	\$221.40	\$221.76	\$5.69	\$5.71	\$6.11	\$6.15	\$6.16
-	<b>MINING</b> .....	337.82	338.09	366.75	359.10	360.39	7.82	7.79	8.47	8.55	8.54
10	<b>METAL MINING</b> .....	341.55	343.10	379.39	385.81	-	8.29	8.43	9.12	9.41	-
101	Iron ores .....	363.80	361.96	403.18	406.73	-	8.52	8.68	9.42	9.57	-
102	Copper ores .....	336.18	341.75	395.28	413.76	-	8.62	8.63	9.15	9.69	-
11, 12	<b>COAL MINING</b> .....	390.91	388.97	428.45	401.44	-	(*)	9.70	10.45	(*)	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> ...	393.09	391.15	429.68	402.95	-	(*)	9.73	10.48	(*)	-
13	<b>OIL AND GAS EXTRACTION</b> .....	314.62	315.70	339.46	339.99	-	7.07	7.00	7.68	7.78	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	341.49	328.02	361.12	360.91	-	8.15	8.02	8.66	8.76	-
138	Oil and gas field services .....	303.45	310.67	330.41	331.23	-	6.64	6.61	7.31	7.41	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> ...	295.74	298.53	318.77	315.55	-	6.36	6.42	6.87	6.92	-
142	Crushed and broken stone .....	295.30	299.08	313.22	314.35	-	6.23	6.27	6.65	6.66	-
-	<b>CONSTRUCTION</b> .....	329.67	330.49	346.56	347.97	353.95	8.63	8.72	9.12	9.23	9.29
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	293.97	295.97	311.95	312.48	-	8.01	8.13	8.57	8.68	-
152	Residential building construction .....	277.06	279.72	297.39	292.88	-	7.77	7.77	8.17	8.25	-
153	Operative builders .....	257.05	262.17	267.12	264.04	-	6.91	7.01	7.42	7.48	-
154	Nonresidential building construction .....	320.90	321.63	336.17	343.51	-	8.72	8.74	9.21	9.36	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> ....	341.82	339.87	362.94	358.52	-	8.10	8.17	8.56	8.66	-
161	Highway and street construction .....	343.10	341.82	370.87	365.40	-	7.71	7.84	8.26	8.40	-
162	Heavy construction, except highway .....	340.68	339.80	358.28	354.40	-	8.35	8.39	8.76	8.84	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	343.36	345.77	356.59	362.23	-	9.23	9.32	9.69	9.79	-
171	Plumbing, heating, air conditioning .....	357.96	360.81	373.54	375.97	-	9.42	9.52	9.83	9.92	-
172	Painting, paper hanging, decorating .....	310.46	312.99	311.52	320.59	-	8.60	8.67	8.85	8.93	-
173	Electrical work .....	396.24	400.51	419.39	421.25	-	10.40	10.43	10.95	10.97	-
174	Masonry, stonework, and plastering .....	319.33	320.72	332.50	336.35	-	8.97	9.06	9.50	9.61	-
175	Carpentering and flooring .....	294.99	296.78	307.11	310.74	-	8.24	8.29	8.70	8.68	-
176	Roofing and sheet metal work .....	277.26	280.57	294.76	298.60	-	8.06	8.18	8.47	8.63	-
-	<b>MANUFACTURING</b> .....	248.65	248.86	269.06	268.40	267.20	6.17	6.16	6.66	6.71	6.68
24, 25, 32-39	<b>DURABLE GOODS</b> .....	268.71	268.71	291.51	289.17	286.84	6.57	6.57	7.11	7.14	7.10
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	220.02	220.18	233.64	236.59	237.98	5.57	5.56	5.93	6.02	6.04
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	227.83	226.63	247.63	245.69	252.46	5.71	5.68	6.16	6.22	6.28
241	Logging camps and logging contractors .....	301.43	295.47	339.47	336.80	-	7.37	7.35	8.30	8.42	-
242	Sawmills and planing mills .....	240.72	239.90	262.22	259.84	-	5.90	5.88	6.38	6.40	-
2421	Sawmills and planing mills, general .....	254.20	254.41	275.78	273.64	-	6.20	6.19	6.71	6.74	-
2426	Hardwood dimension and flooring .....	159.20	160.80	173.32	176.26	-	3.97	4.00	4.29	4.32	-
243	Millwork, plywood, and structural members .....	223.34	221.13	235.22	231.60	-	5.64	5.57	5.94	6.00	-
2431	Millwork .....	211.18	213.30	221.48	216.78	-	5.36	5.40	5.65	5.75	-
2434	Wood kitchen cabinets .....	196.74	198.07	206.82	199.43	-	5.11	5.04	5.40	5.39	-
2435	Hardwood veneer and plywood .....	172.52	177.75	185.93	188.65	-	4.54	4.50	4.66	4.74	-
2436	Softwood veneer and plywood .....	301.14	284.62	310.02	305.29	-	7.17	7.08	7.58	7.69	-
244	Wooden containers .....	160.58	158.88	173.49	169.55	-	4.16	4.17	4.46	4.45	-
245	Wood buildings and mobile homes .....	199.50	204.72	216.21	210.74	-	5.25	5.29	5.66	5.59	-
2451	Mobile homes .....	195.83	201.17	214.30	206.82	-	5.25	5.28	5.61	5.53	-
249	Miscellaneous wood products .....	184.39	185.00	201.14	200.50	-	4.68	4.66	4.93	5.00	-
25	<b>FURNITURE AND FIXTURES</b> .....	182.52	186.44	195.94	192.79	196.61	4.68	4.72	5.05	5.06	5.12
261	Household furniture .....	168.19	174.00	181.93	178.42	-	4.38	4.45	4.72	4.72	-
2611	Wood household furniture .....	157.49	163.15	169.02	169.40	-	4.08	4.12	4.39	4.40	-
2612	Upholstered household furniture .....	174.17	181.45	191.27	181.41	-	4.62	4.75	5.06	4.97	-
2614	Metal household furniture .....	172.14	175.41	194.33	190.90	-	4.53	4.58	4.97	4.92	-
2615	Mattresses and bedsprings .....	193.39	200.88	201.63	198.86	-	5.01	5.06	5.32	5.36	-
262	Office furniture .....	209.16	207.77	213.60	211.53	-	5.19	5.13	5.34	5.41	-
263	Public building and related furniture .....	214.02	207.56	223.02	218.02	-	5.12	5.05	5.40	5.41	-
264	Partitions and fixtures .....	223.60	224.00	240.30	237.08	-	5.59	5.60	6.13	6.19	-
269	Miscellaneous furniture and fixtures .....	199.14	208.35	217.06	214.14	-	5.08	5.17	5.58	5.65	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. <sup>P</sup> 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug 1979 <sup>P</sup>
-	<b>TOTAL PRIVATE</b> .....	36.3	36.2	35.9	36.0	36.0	-	-	-	-	-
-	<b>MINING</b> .....	43.2	43.4	43.3	42.0	42.2	-	-	-	-	-
10	<b>METAL MINING</b> .....	41.2	40.7	41.6	41.0	-	-	-	-	-	-
101	Iron ores .....	42.7	41.7	42.8	42.5	-	-	-	-	-	-
102	Copper ores .....	39.0	39.6	43.2	42.7	-	-	-	-	-	-
11, 12	<b>COAL MINING</b> .....	(*)	40.1	41.0	(*)	-	-	-	-	-	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	(*)	40.2	41.0	(*)	-	-	-	-	-	-
13	<b>OIL AND GAS EXTRACTION</b> .....	44.5	45.1	44.2	43.7	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	41.9	40.9	41.7	41.2	-	-	-	-	-	-
138	Oil and gas field services .....	45.7	47.0	45.2	44.7	-	-	-	-	-	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	46.5	46.5	46.4	45.6	-	-	-	-	-	-
142	Crushed and broken stone .....	47.4	47.7	47.1	47.2	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	38.2	37.9	38.0	37.7	38.1	-	-	-	-	-
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	36.7	36.4	36.4	36.0	-	-	-	-	-	-
152	Residential building construction .....	36.6	36.0	36.4	35.5	-	-	-	-	-	-
153	Operative builders .....	37.2	37.4	36.0	35.3	-	-	-	-	-	-
154	Nonresidential building construction .....	36.8	36.8	36.5	36.7	-	-	-	-	-	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	42.2	41.6	42.4	41.4	-	-	-	-	-	-
161	Highway and street construction .....	44.5	43.6	44.9	43.5	-	-	-	-	-	-
162	Heavy construction, except highway .....	40.8	40.5	40.9	40.1	-	-	-	-	-	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	37.2	37.1	36.8	37.0	-	-	-	-	-	-
171	Plumbing, heating, air conditioning .....	38.0	37.9	38.0	37.9	-	-	-	-	-	-
172	Painting, paper hanging, decorating .....	36.1	36.1	35.2	35.9	-	-	-	-	-	-
173	Electrical work .....	38.1	38.4	38.3	38.4	-	-	-	-	-	-
174	Masonry, stonework, and plastering .....	35.6	35.4	35.0	35.0	-	-	-	-	-	-
175	Carpentering and flooring .....	35.8	35.8	35.3	35.8	-	-	-	-	-	-
176	Roofing and sheet metal work .....	34.4	34.3	34.8	34.6	-	-	-	-	-	-
-	<b>MANUFACTURING</b> .....	40.3	40.4	40.4	40.0	40.0	3.5	3.6	3.4	3.2	3.4
24, 25, 32-39	<b>DURABLE GOODS</b> .....	40.9	40.9	41.0	40.5	40.4	3.7	3.7	3.6	3.4	3.5
20-23, 28-31	<b>NONDURABLE GOODS</b> .....	39.5	39.6	39.4	39.3	39.4	3.2	3.4	3.0	3.0	3.3
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	39.9	39.9	40.2	39.5	40.2	3.8	3.9	3.6	3.4	-
241	Logging camps and logging contractors .....	40.9	40.2	40.9	40.0	-	4.8	4.7	4.8	4.0	-
242	Sawmills and planing mills .....	40.8	40.8	41.1	40.6	-	4.6	4.8	4.4	4.2	-
2421	Sawmills and planing mills, general .....	41.0	41.1	41.1	40.6	-	4.9	5.0	4.7	4.6	-
2426	Hardwood dimension and flooring .....	40.1	40.2	40.4	40.8	-	3.3	4.0	3.4	3.2	-
243	Millwork, plywood, and structural members .....	39.6	39.7	39.6	38.6	-	3.3	3.3	2.9	2.9	-
2431	Millwork .....	39.4	39.5	39.2	37.7	-	2.4	2.5	1.9	1.8	-
2434	Wood kitchen cabinets .....	38.5	39.3	38.3	37.0	-	2.6	2.6	2.3	2.3	-
2436	Hardwood veneer and plywood .....	38.0	39.5	39.9	39.8	-	3.6	3.8	3.6	3.7	-
2436	Softwood veneer and plywood .....	42.0	40.2	40.9	39.7	-	4.7	4.8	4.4	4.5	-
244	Wooden containers .....	38.6	38.1	38.9	38.1	-	3.3	3.0	3.0	2.6	-
245	Wood buildings and mobile homes .....	38.0	38.7	38.2	37.7	-	2.6	2.8	2.1	2.1	-
2451	Mobile homes .....	37.3	38.1	38.2	37.4	-	1.9	2.1	1.8	1.6	-
249	Miscellaneous wood products .....	39.4	39.7	40.8	40.1	-	3.2	3.3	3.5	3.2	-
26	<b>FURNITURE AND FIXTURES</b> .....	39.0	39.5	38.8	38.1	38.4	2.4	2.8	2.3	1.9	-
261	Household furniture .....	38.4	39.1	38.3	37.8	-	2.2	2.7	2.2	1.8	-
2611	Wood household furniture .....	38.6	39.6	38.5	38.5	-	2.7	3.3	2.5	2.2	-
2612	Upholstered household furniture .....	39.7	38.2	37.8	36.5	-	1.3	1.7	1.5	1.0	-
2614	Metal household furniture .....	38.0	38.3	39.1	38.8	-	1.9	1.5	2.0	2.1	-
2615	Mattresses and bedsprings .....	38.6	39.7	37.9	37.1	-	3.4	3.7	2.8	2.2	-
262	Office furniture .....	40.3	40.5	40.0	30.1	-	2.5	2.7	2.3	1.8	-
263	Public building and related furniture .....	41.8	41.1	41.3	40.3	-	2.2	3.1	2.0	2.1	-
264	Partitions and fixtures .....	40.0	40.0	39.2	38.3	-	3.2	3.3	2.7	2.4	-
269	Miscellaneous furniture and fixtures .....	39.2	40.3	38.9	37.9	-	1.7	2.8	2.3	1.8	-

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				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	41.9	42.1	42.0	41.5	41.7	5.1	5.2	4.9	4.7	-
321	Flat glass	43.3	43.3	43.9	42.3	-	6.9	6.2	5.1	4.5	-
322	Glass and glassware, pressed or blown	40.4	40.4	40.5	40.1	-	4.1	4.2	4.0	4.0	-
3221	Glass containers	40.6	40.9	41.0	40.1	-	4.7	4.9	4.4	4.3	-
3229	Pressed and blown glass, nec	40.1	39.7	39.9	40.1	-	3.3	3.3	3.5	3.6	-
323	Products of purchased glass	38.9	40.7	39.5	39.2	-	3.8	3.8	3.8	3.5	-
324	Cement, hydraulic	42.4	40.0	42.7	42.5	-	4.3	4.4	4.1	4.3	-
325	Structural clay products	40.7	40.6	41.7	41.3	-	4.5	4.3	4.2	4.2	-
326	Pottery and related products	38.4	38.7	38.9	38.0	-	2.1	2.5	2.4	2.2	-
327	Concrete, gypsum, and plaster products	44.7	44.6	44.3	43.7	-	7.5	7.4	7.1	6.7	-
3271	Concrete block and brick	45.4	45.6	45.1	45.5	-	8.3	8.0	7.5	7.7	-
3272	Concrete products, nec	42.4	42.5	42.7	42.0	-	6.1	6.5	5.6	5.5	-
3273	Ready-mixed concrete	45.7	45.5	45.1	44.1	-	8.1	7.8	8.1	7.2	-
329	Misc. nonmetallic mineral products	41.8	42.3	42.0	41.2	-	4.3	4.9	4.3	4.3	-
3291	Abrasive products	39.7	40.5	41.0	39.7	-	3.2	3.3	3.4	3.3	-
3292	Asbestos products	43.4	43.8	42.3	41.5	-	4.9	5.3	3.3	3.1	-
33	<b>PRIMARY METAL INDUSTRIES</b>	41.8	41.8	41.6	41.2	40.7	4.2	4.2	4.0	3.9	-
331	Blast furnace and basic steel products	42.0	41.4	41.6	41.5	-	3.7	3.6	3.6	3.8	-
3312	Blast furnaces and steel mills	42.0	41.3	41.4	41.5	-	3.7	3.6	3.5	3.8	-
3317	Steel pipe and tubes	41.8	41.5	41.8	40.5	-	4.3	4.0	3.7	3.3	-
332	Iron and steel foundries	41.1	42.1	41.3	40.2	-	4.6	4.8	4.2	3.2	-
3321	Gray iron foundries	41.7	42.6	41.0	40.2	-	5.3	5.3	4.0	3.0	-
3322	Malleable iron foundries	39.0	40.0	41.2	38.0	-	3.2	3.5	4.6	2.6	-
3325	Steel foundries, nec	40.5	41.8	42.1	40.6	-	3.5	4.1	4.6	3.9	-
333	Primary nonferrous metals	42.7	42.1	41.4	41.1	-	4.1	3.8	4.0	4.3	-
3334	Primary aluminum	42.7	42.5	40.7	40.3	-	4.3	4.2	4.1	4.1	-
336	Nonferrous rolling and drawing	42.4	42.8	42.6	42.5	-	5.3	5.5	5.3	5.2	-
3361	Copper rolling and drawing	42.7	43.8	43.6	42.4	-	5.5	6.0	5.6	4.9	-
3353	Aluminum sheet, plate and foil	42.2	42.4	42.6	42.8	-	6.8	6.8	6.8	7.0	-
3357	Nonferrous wire drawing and insulating	41.7	42.3	41.7	41.5	-	4.6	5.0	4.5	4.3	-
336	Nonferrous foundries	40.7	41.1	40.7	39.8	-	3.6	3.5	3.3	2.8	-
3361	Aluminum foundries	40.7	40.9	40.6	40.3	-	3.8	3.6	3.4	3.0	-
34	<b>FABRICATED METAL PRODUCTS</b>	40.5	40.9	41.0	40.3	40.1	3.5	3.7	3.6	3.2	-
341	Metal cans and shipping containers	44.9	44.6	44.8	45.8	-	5.5	5.3	5.5	5.9	-
3411	Metal cans	45.3	44.7	44.6	46.0	-	5.4	5.0	5.1	5.8	-
342	Cutlery, hand tools, and hardware	39.5	40.5	40.1	39.3	-	2.6	3.6	2.8	2.4	-
3423, 5	Hand and edge tools, and hand saws and blades	39.2	39.7	41.1	40.3	-	2.5	2.8	3.3	3.0	-
3429	Hardware, nec	39.7	41.1	39.4	38.6	-	2.8	4.1	2.5	2.1	-
343	Plumbing and heating, except electric	38.9	39.6	40.4	38.9	-	2.1	2.6	2.7	2.6	-
3432	Plumbing fittings and brass goods	39.2	39.8	41.4	40.0	-	2.1	2.8	3.2	2.8	-
3433	Heating equipment, except electric	39.2	39.0	39.1	37.9	-	1.7	2.1	2.2	2.2	-
344	Fabricated structural metal products	40.0	40.3	40.3	39.7	-	3.2	3.3	2.9	2.8	-
3441	Fabricated structural metal	40.3	41.0	41.4	40.8	-	3.5	3.9	3.8	3.5	-
3442	Metal doors, sash, and trim	39.2	39.5	39.5	38.6	-	2.8	3.1	2.3	2.4	-
3443	Fabricated plate work (boiler shops)	40.1	40.3	40.8	40.0	-	2.9	3.0	2.7	2.4	-
3444	Sheet metal work	39.5	39.5	39.7	39.1	-	3.2	3.2	3.1	2.8	-
3446	Architectural metal work	40.1	40.3	38.9	39.1	-	2.5	2.6	1.6	1.8	-
345	Screw machine products, bolts, etc.	41.8	42.5	42.6	41.5	-	4.7	5.3	4.9	4.2	-
3451	Screw machine products	41.6	42.1	41.7	41.4	-	5.0	5.2	4.8	4.5	-
3452	Bolts, nuts, rivets, and washers	42.1	43.0	43.5	41.7	-	4.4	5.4	5.0	3.8	-
346	Metal forgings and stampings	41.3	41.4	40.9	40.0	-	4.4	4.3	4.3	3.6	-
3462	Iron and steel forgings	41.6	41.9	39.2	37.3	-	5.2	5.5	4.5	3.4	-
3465	Automotive stampings	43.1	42.5	41.5	41.5	-	5.3	4.7	4.7	4.3	-
3469	Metal stampings, nec	39.5	40.2	41.1	39.9	-	3.2	3.3	3.6	3.0	-
347	Metal services, nec	39.9	40.3	40.8	40.1	-	3.7	3.7	3.7	3.3	-
3471	Plating and polishing	39.7	40.0	40.3	39.5	-	3.4	3.4	3.3	2.9	-
3479	Metal coating and allied services	40.6	41.1	41.9	41.7	-	4.4	4.4	4.6	4.2	-
348	Ordinance and accessories, nec	40.1	40.4	40.6	40.0	-	2.8	3.3	2.7	2.8	-
3483	Ammunition, exc. for small arms, nec	37.9	38.4	38.7	37.9	-	1.6	1.6	1.4	1.5	-
349	Misc. fabricated metal products	40.1	40.6	41.4	40.4	-	3.0	3.2	3.5	3.0	-
3494	Valves and pipe fittings	41.0	41.5	41.9	40.6	-	3.4	3.4	3.9	3.4	-
3496	Misc. fabricated wire products	39.7	39.9	40.9	40.2	-	2.7	3.0	3.7	3.4	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	41.5	41.6	42.0	41.3	41.2	3.9	4.0	4.1	3.7	-
351	Engines and turbines	41.7	41.4	41.4	41.4	-	4.2	3.6	3.8	3.7	-
3511	Turbines and turbine generator sets	40.8	40.2	40.4	39.9	-	4.3	3.9	3.7	2.8	-
3519	Internal combustion engines, nec	42.1	41.9	41.7	41.9	-	4.1	3.5	3.8	4.0	-
362	Farm and garden machinery	40.7	40.2	42.4	42.8	-	3.0	3.4	4.9	4.6	-
3623	Farm machinery and equipment	41.1	40.4	42.8	43.4	-	3.1	3.5	5.2	4.9	-
363	Construction and related machinery	40.9	42.1	41.7	40.9	-	3.8	3.9	3.3	3.2	-

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 hours					Average overtime hours				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3531	Construction machinery	39.9	41.6	40.9	40.1	—	3.0	3.2	2.5	2.3	—
3532	Mining machinery	40.6	42.0	41.8	41.5	—	3.7	3.5	3.1	3.2	—
3533	Oil field machinery	43.2	43.9	42.9	42.3	—	5.2	5.3	4.5	4.7	—
3535	Conveyers and conveying equipment	42.5	42.4	42.9	41.4	—	4.6	4.6	4.2	3.7	—
3537	Industrial trucks and tractors	39.3	40.9	41.6	40.3	—	2.9	3.6	3.3	2.9	—
354	Metalworking machinery	43.4	43.2	43.8	42.7	—	5.4	5.1	5.8	5.3	—
3541	Machine tools, metal cutting types	43.5	43.6	43.9	42.2	—	5.5	5.6	6.0	5.4	—
3542	Machine tools, metal forming types	43.0	42.6	42.7	40.8	—	6.1	5.6	6.5	5.9	—
3544	Special dies, tools, jigs, and fixtures	45.2	44.1	44.7	43.9	—	6.6	6.1	6.3	6.0	—
3545	Machine tool accessories	42.0	42.4	43.3	42.5	—	4.2	4.3	5.5	4.8	—
3546	Power driven hand tools	38.7	40.5	41.4	39.8	—	2.5	2.8	4.0	3.0	—
355	Special industry machinery	40.7	40.7	41.7	40.4	—	3.5	3.6	3.8	3.4	—
3551	Food products machinery	41.3	41.4	41.2	40.1	—	3.1	3.4	3.2	2.9	—
3552	Textile machinery	39.9	40.2	41.6	40.0	—	2.6	2.5	3.2	2.5	—
3555	Printing trades machinery	40.0	39.2	41.5	40.5	—	3.5	3.3	3.7	3.6	—
356	General industrial machinery	40.6	41.1	41.7	40.8	—	3.7	3.9	4.2	3.6	—
3561	Pumps and pumping equipment	39.8	40.2	41.4	40.3	—	3.3	3.1	3.6	3.1	—
3562	Ball and roller bearings	41.0	41.4	42.1	41.8	—	4.4	4.9	4.7	4.4	—
3563	Air and gas compressors	41.6	42.3	42.3	41.0	—	3.6	4.5	3.9	3.0	—
3564	Blowers and fans	41.0	40.5	41.7	41.1	—	3.3	3.4	4.5	3.2	—
3566	Speed changers, drives, and gears	42.8	42.5	44.1	42.9	—	4.4	4.9	5.9	4.8	—
3568	Power transmission equipment, nec	40.2	41.2	41.4	40.0	—	3.9	4.0	4.2	4.0	—
357	Office and computing machines	41.2	41.2	41.7	41.3	—	2.7	3.1	2.8	2.3	—
3573	Electronic computing equipment	41.1	41.3	41.8	41.5	—	2.8	3.1	2.8	2.3	—
358	Refrigeration and service machinery	41.0	41.0	40.4	39.8	—	3.3	3.1	2.6	2.2	—
3585	Refrigeration and heating equipment	41.7	41.2	40.9	40.5	—	3.7	3.3	2.9	2.6	—
359	Misc. machinery, except electrical	41.7	41.7	41.8	41.0	—	4.6	4.6	4.4	4.2	—
3592	Carburetors, pistons, rings, valves	40.6	40.6	41.4	40.7	—	3.3	3.2	3.4	3.8	—
3599	Machinery, except electrical, nec	41.9	41.9	41.9	41.1	—	4.8	4.8	4.6	4.3	—
<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>											
36	Electric distributing equipment	40.1	40.3	40.5	39.8	40.2	2.6	2.8	2.8	2.5	—
361	Transformers	39.7	39.6	40.7	39.3	—	2.8	2.6	3.1	2.6	—
3612	Switchgear and switchboard apparatus	40.4	40.8	40.8	39.1	—	3.0	3.0	3.5	2.9	—
3613	Electrical industrial apparatus	39.0	38.5	40.5	39.6	—	2.7	2.3	2.8	2.4	—
362	Motors and generators	40.3	40.3	41.1	40.4	—	2.9	2.9	3.1	2.9	—
3621	Industrial controls	40.6	40.2	41.0	40.2	—	3.2	3.1	3.2	2.8	—
3622	Household appliances	39.1	39.6	40.8	40.2	—	1.9	2.0	2.6	2.4	—
363	Household refrigerators and freezers	39.8	40.4	39.9	39.6	—	1.9	2.2	2.5	2.2	—
3632	Household laundry equipment	40.1	41.9	41.0	40.6	—	1.9	2.0	3.0	2.7	—
3633	Electric housewares and fans	40.3	39.3	39.7	41.0	—	2.2	1.3	.5	1.6	—
3634	Electric lighting and wiring equipment	40.2	40.3	39.4	38.5	—	2.1	2.9	2.5	1.7	—
364	Electric lamps	39.8	40.2	39.9	39.4	—	2.6	2.9	2.5	2.3	—
3641	Current-carrying wiring devices	40.2	41.0	39.5	39.5	—	1.7	2.4	1.7	1.4	—
3643	Residential lighting fixtures	40.3	40.6	40.4	40.1	—	3.0	3.0	2.9	2.9	—
3644	Radio and TV receiving equipment	40.6	40.3	39.7	38.6	—	2.9	2.9	2.3	1.6	—
3645	Radio and TV receiving sets	36.7	37.5	38.6	37.7	—	1.0	1.9	1.8	2.2	—
365	Communication equipment	38.8	39.6	39.2	37.5	—	2.0	2.1	2.6	2.1	—
3651	Telephone and telegraph apparatus	38.7	39.5	39.0	38.0	—	1.5	1.8	2.5	2.1	—
366	Radio and TV communication equipment	40.7	41.1	41.2	40.5	—	2.8	3.0	2.7	2.6	—
3661	Electronic components and accessories	39.1	40.1	41.4	41.0	—	2.5	3.1	3.3	2.9	—
3662	Electronic tubes	42.0	41.9	41.0	40.2	—	3.1	3.0	2.3	2.3	—
367	Semiconductors and related devices	39.9	39.9	40.6	40.0	—	2.5	2.6	2.9	2.6	—
3671-3	Electronic components, nec	41.5	40.8	42.0	41.1	—	2.1	1.9	2.3	1.6	—
3674	Misc. electrical equipment and supplies	40.8	41.0	42.4	41.7	—	2.8	3.2	3.7	3.6	—
3679	Storage batteries	39.7	39.4	39.9	39.4	—	2.5	2.5	2.8	2.4	—
369	Engine electrical equipment	40.5	40.9	40.5	39.7	—	3.6	3.7	2.8	2.2	—
3691	Motor vehicles and equipment	40.1	41.9	39.3	39.0	—	3.4	5.1	2.8	2.7	—
3694	Truck and bus bodies	41.0	40.8	40.8	39.8	—	4.4	3.7	3.2	2.1	—
<b>TRANSPORTATION EQUIPMENT</b>											
37	Motor vehicles and equipment	42.1	40.9	41.2	41.0	40.4	4.9	4.5	4.3	4.2	—
371	Motor vehicles and car bodies	43.5	41.4	41.5	41.3	—	6.0	5.4	4.7	4.5	—
3711	Truck and bus bodies	43.2	39.3	41.7	42.0	—	5.9	5.1	5.5	5.6	—
3713	Motor vehicle parts and accessories	40.2	40.1	39.9	39.1	—	3.8	3.2	3.3	2.7	—
3714	Truck trailers	44.3	43.4	41.8	41.2	—	6.6	6.0	4.2	3.9	—
3715	Aircraft and parts	39.9	40.3	39.2	38.9	—	3.0	3.0	2.5	2.4	—
372	Aircraft	41.8	41.9	42.3	42.2	—	4.0	4.3	4.5	4.6	—
3721	Aircraft engines and engine parts	41.9	42.3	42.2	42.3	—	3.2	3.9	4.0	4.1	—
3724	Aircraft equipment, nec	41.6	40.7	41.9	41.9	—	5.0	4.4	4.9	5.1	—
3728	Ship and boat building and repairing	42.0	42.3	43.2	42.1	—	4.8	5.1	5.1	5.1	—
373	Boat building and repairing	38.7	38.6	(*)	(*)	—	2.9	2.5	(*)	(*)	—
3731	Ship building and repairing	38.6	38.6	(*)	(*)	—	3.0	2.6	(*)	(*)	—
3732	Railroad equipment	39.0	38.8	38.5	37.6	—	2.9	2.4	2.3	2.2	—
374	Railroad equipment	39.4	38.2	41.2	42.1	—	3.8	3.1	4.2	4.9	—

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				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>D</sup>	Aug. 1979 <sup>D</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>D</sup>	Aug. 1979 <sup>D</sup>
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
376	Guided missiles, space vehicles, parts .....	\$309.50	\$317.48	\$336.57	\$339.07	-	\$7.44	\$7.47	\$8.11	\$8.21	-
3761	Guided missiles and space vehicles .....	304.36	312.07	334.56	336.13	-	7.59	7.63	8.16	8.32	-
379	Miscellaneous transportation equipment .....	218.34	221.92	247.54	251.16	-	5.57	5.59	6.48	6.49	-
3792	Travel trailers and campers .....	195.33	195.32	207.32	203.50	-	5.10	5.06	5.68	5.56	-
<b>INSTRUMENTS AND RELATED PRODUCTS</b>											
38	Engineering and scientific instruments .....	229.71	233.78	248.68	246.62	\$251.53	5.70	5.73	6.11	6.15	\$6.18
381	Measuring and controlling devices .....	247.85	254.52	265.56	265.44	-	6.06	6.06	6.43	6.49	-
382	Environmental controls .....	232.23	236.47	254.20	253.17	-	5.72	5.81	6.17	6.19	-
3822	Process control instruments .....	215.21	223.11	231.85	231.28	-	5.49	5.55	5.84	5.90	-
3823	Instruments to measure electricity .....	244.18	244.73	260.18	259.79	-	5.80	5.94	6.18	6.26	-
3825	Optical instruments and lenses .....	243.02	245.78	268.97	272.84	-	5.87	5.98	6.45	6.45	-
383	Medical instruments and supplies .....	274.07	264.11	294.70	290.11	-	6.05	6.03	6.52	6.70	-
384	Surgical and medical instruments .....	193.55	196.02	205.78	202.69	-	4.95	4.95	5.29	5.32	-
3841	Surgical appliances and supplies .....	188.81	192.10	201.61	197.25	-	4.78	4.72	5.13	5.11	-
3842	Ophthalmic goods .....	199.80	201.76	209.52	206.22	-	5.11	5.16	5.40	5.47	-
385	Photographic equipment and supplies .....	181.35	177.63	190.71	191.18	-	4.65	4.59	4.89	4.94	-
386	Watches, clocks, and watchcases .....	291.31	205.44	322.14	318.72	-	7.14	7.17	7.67	7.68	-
387	Watches, clocks, and watchcases .....	171.44	178.49	181.45	175.21	-	4.43	4.44	4.75	4.71	-
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>											
39	Jewelry, silverware, and plated ware .....	180.48	182.83	194.61	195.05	194.54	4.70	4.70	4.99	5.04	5.04
391	Jewelry, precious metal .....	176.43	183.52	200.98	194.33	-	4.73	4.73	5.18	5.21	-
3911	Musical instruments .....	169.52	175.86	192.91	188.92	-	4.67	4.64	5.09	5.19	-
393	Toys and sporting goods .....	178.20	182.10	197.20	198.77	-	4.50	4.61	4.93	4.92	-
394	Dolls, games, toys, and children's vehicles .....	164.54	163.83	174.96	172.58	-	4.33	4.30	4.58	4.59	-
3942, 4	Sporting and athletic goods, nec .....	156.15	157.73	169.86	168.14	-	4.12	4.14	4.67	4.46	-
3949	Pens, pencils, office and art supplies .....	171.45	170.37	179.33	176.72	-	4.50	4.46	4.67	4.70	-
395	Costume jewelry and notions .....	196.98	198.36	208.38	209.84	-	4.84	4.91	5.12	5.22	-
396	Costume jewelry and notions .....	147.17	155.01	163.16	166.92	-	4.01	4.09	4.26	4.28	-
3961	Miscellaneous manufactures .....	137.62	145.08	149.48	153.78	-	3.76	3.90	4.04	4.09	-
399	Signs and advertising displays .....	205.80	209.22	219.85	221.26	-	5.25	5.27	5.58	5.63	-
3993	Signs and advertising displays .....	212.62	219.46	227.76	229.28	-	5.48	5.57	5.84	5.94	-
<b>NONDURABLE GOODS</b>											
<b>FOOD AND KINDRED PRODUCTS</b>											
20	Meat products .....	232.58	233.16	247.56	253.71	257.45	5.80	5.80	6.22	6.28	6.31
201	Meat packing plants .....	234.82	233.64	249.20	260.71	-	5.90	5.90	6.23	6.39	-
2011	Sausages and other prepared meats .....	291.58	286.44	315.67	331.99	-	7.06	7.09	7.57	7.80	-
2013	Poultry dressing plants .....	272.40	270.80	292.80	306.88	-	6.81	6.77	7.32	7.54	-
2016	Dairy products .....	144.77	148.23	158.18	163.83	-	3.83	3.85	4.13	4.19	-
202	Cheese, natural and processed .....	247.19	244.78	261.04	263.55	-	5.83	5.87	6.26	6.29	-
2022	Fluid milk .....	226.46	225.22	241.16	244.96	-	5.47	5.52	5.94	5.96	-
2026	Preserved fruits and vegetables .....	257.14	254.82	270.26	275.83	-	5.98	6.01	6.45	6.49	-
203	Canned specialties .....	191.88	209.16	204.37	211.97	-	5.01	5.19	5.35	5.38	-
2032	Canned fruits and vegetables .....	225.10	249.48	249.90	257.51	-	5.67	5.94	6.14	6.22	-
2033	Frozen fruits and vegetables .....	189.75	214.27	198.38	208.12	-	5.06	5.33	5.45	5.35	-
2037	Grain mill products .....	186.38	200.41	190.08	201.37	-	4.97	4.90	4.95	5.15	-
204	Flour and other grain mill products .....	276.43	277.64	291.17	303.21	-	6.24	6.31	6.74	6.86	-
2041	Prepared feeds, nec .....	303.94	315.32	311.19	334.40	-	6.68	6.84	6.90	7.04	-
2048	Bakery products .....	224.64	220.25	238.82	250.32	-	4.97	5.04	5.44	5.60	-
205	Bread, cake, and related products .....	235.80	236.38	252.20	254.80	-	6.00	6.03	6.50	6.55	-
2051	Cookies and crackers .....	238.55	237.12	253.10	256.19	-	6.07	6.08	6.54	6.62	-
2052	Sugar and confectionery products .....	226.18	233.42	251.22	250.27	-	5.77	5.85	6.36	6.32	-
206	Cane and beet sugar .....	224.19	225.58	238.94	239.68	-	5.69	5.74	6.08	6.13	-
2061-3	Confectionery products .....	278.26	282.77	287.83	295.65	-	6.82	6.88	7.25	7.30	-
2065	Fats and oils .....	197.18	192.79	209.98	212.69	-	5.03	5.06	5.44	5.51	-
207	Beverages .....	270.57	271.81	288.38	299.44	-	6.22	6.22	6.66	6.79	-
206	Malt beverages .....	283.04	277.43	298.08	305.29	-	6.87	6.85	7.36	7.41	-
2062	Bottled and canned soft drinks .....	399.83	386.16	421.64	433.75	-	9.43	9.35	10.16	10.23	-
2066	Misc. foods and kindred products .....	217.36	211.97	220.44	225.50	-	5.20	5.17	5.47	5.50	-
209	Misc. foods and kindred products .....	188.25	190.26	204.92	203.96	-	5.02	5.02	5.45	5.41	-
<b>TOBACCO MANUFACTURES</b>											
21	Cigarettes .....	238.20	236.25	269.79	247.74	248.34	6.58	6.30	6.90	6.92	6.64
211	Cigarettes .....	270.03	287.23	305.34	275.97	-	7.48	7.48	7.73	7.84	-
<b>TEXTILE MILL PRODUCTS</b>											
22	Weaving mills, cotton .....	173.23	177.42	184.32	185.54	192.16	4.32	4.37	4.54	4.65	4.78
221	Weaving mills, synthetics .....	181.35	185.09	192.87	196.66	-	4.50	4.57	4.67	4.82	-
222	Weaving and finishing mills, wool .....	191.86	195.72	195.82	202.70	-	4.59	4.66	4.73	4.92	-
223	Narrow fabric mills .....	176.55	182.10	193.93	187.15	-	4.37	4.42	4.73	4.75	-
224	Knitting mills .....	158.80	161.60	170.49	173.66	-	4.00	4.05	4.22	4.32	-
225	Knitting mills .....	152.05	156.78	166.06	166.66	-	3.97	4.02	4.28	4.34	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
376	Guided missiles, space vehicles, parts .....	41.6	42.5	41.5	41.3	—	3.9	4.4	4.4	4.3	—
3761	Guided missiles and space vehicles .....	40.1	40.9	41.0	40.4	—	2.8	3.4	3.6	3.6	—
379	Miscellaneous transportation equipment .....	39.2	39.7	38.2	38.7	—	2.3	2.6	1.3	1.6	—
3792	Travel trailers and campers .....	38.3	38.6	36.5	36.6	—	2.4	2.5	1.1	.9	—
<b>INSTRUMENTS AND RELATED PRODUCTS</b>											
38	Engineering and scientific instruments .....	40.3	40.8	40.7	40.1	40.7	2.1	2.4	2.4	2.1	—
381	Measuring and controlling devices .....	40.9	42.0	41.3	40.9	—	2.9	3.4	2.9	3.8	—
382	Environmental controls .....	40.6	40.7	41.2	40.9	—	1.9	2.1	2.5	1.9	—
3822	Process control instruments .....	39.2	40.2	39.7	39.2	—	1.5	2.0	1.6	1.6	—
3823	Instruments to measure electricity .....	42.1	41.2	42.1	41.5	—	2.6	2.6	3.1	2.7	—
3825	Optical instruments and lenses .....	41.4	41.1	41.7	42.3	—	1.5	1.9	2.1	1.4	—
383	Medical instruments and supplies .....	45.3	43.8	45.2	43.3	—	3.4	3.3	4.1	3.4	—
384	Surgical and medical instruments .....	39.1	39.6	38.9	38.1	—	2.0	2.3	2.0	1.6	—
3841	Surgical appliances and supplies .....	39.5	40.7	39.3	38.6	—	2.1	2.6	2.4	1.8	—
3842	Ophthalmic goods .....	39.1	39.1	38.8	37.7	—	2.0	2.3	1.8	1.6	—
385	Photographic equipment and supplies .....	39.0	38.7	39.0	38.7	—	1.4	1.8	1.8	1.5	—
386	Watches, clocks, and watchcases .....	40.8	42.6	42.0	41.5	—	2.8	3.1	2.7	2.4	—
387	Signs and advertising displays .....	38.7	40.2	38.2	37.2	—	1.4	1.9	1.3	.7	—
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>											
39	Jewelry, silverware, and plated ware .....	38.4	38.9	39.0	38.7	38.6	1.9	2.4	2.1	1.7	—
391	Jewelry, precious metal .....	37.3	38.8	38.8	37.3	—	1.5	2.4	2.0	.8	—
3911	Musical instruments .....	36.3	37.9	37.9	36.4	—	1.3	2.1	1.9	.7	—
393	Toys and sporting goods .....	39.6	39.5	40.0	40.4	—	1.3	2.2	1.7	1.3	—
394	Dolls, games, toys, and children's vehicles .....	38.0	38.1	38.2	37.6	—	1.4	1.8	1.6	1.4	—
3942, 4	Sporting and athletic goods, nec .....	37.9	38.1	38.0	37.7	—	1.2	1.8	1.6	1.2	—
3949	Pens, pencils, office and art supplies .....	38.1	38.2	38.4	37.6	—	1.6	1.7	1.6	1.5	—
395	Costume jewelry and notions .....	40.7	40.4	40.7	40.2	—	2.5	2.7	2.9	3.0	—
396	Costume jewelry .....	36.7	37.9	38.3	39.0	—	1.8	2.4	1.8	1.4	—
3961	Miscellaneous manufactures .....	36.6	37.2	37.0	37.6	—	1.5	2.2	1.3	.9	—
399	Signs and advertising displays .....	39.2	39.7	39.4	39.3	—	2.4	2.8	2.7	2.2	—
3993	Signs and advertising displays .....	38.8	39.4	39.0	38.6	—	2.3	2.6	2.4	2.1	—
<b>NONDURABLE GOODS</b>											
<b>FOOD AND KINDRED PRODUCTS</b>											
20	Meat products .....	40.1	40.2	39.8	40.4	40.8	4.2	4.4	3.8	4.2	—
201	Meat packing plants .....	39.8	39.6	40.0	40.8	—	4.0	3.9	4.1	4.6	—
2011	Sausages and other prepared meats .....	41.3	40.4	41.7	42.4	—	4.9	4.2	5.0	5.2	—
2013	Poultry dressing plants .....	40.0	40.0	40.0	40.7	—	3.8	3.7	3.5	4.1	—
2016	Dairy products .....	37.8	38.5	38.3	39.1	—	3.1	3.6	3.6	4.2	—
202	Cheese, natural and processed .....	42.4	41.7	41.7	41.9	—	4.6	4.3	4.3	4.3	—
2022	Fluid milk .....	41.4	40.8	40.6	41.1	—	4.1	3.8	4.0	3.8	—
2026	Preserved fruits and vegetables .....	43.0	42.4	41.9	42.5	—	4.7	4.5	4.3	4.4	—
203	Canned specialties .....	38.3	40.3	38.2	39.4	—	3.9	5.4	2.8	3.9	—
2032	Canned fruits and vegetables .....	39.7	42.0	40.7	41.4	—	3.2	5.6	3.5	3.6	—
2033	Frozen fruits and vegetables .....	37.5	40.2	36.4	38.9	—	4.4	6.2	2.5	5.0	—
2037	Grain mill products .....	37.5	40.9	38.4	39.1	—	3.2	4.8	2.7	3.2	—
204	Flour and other grain mill products .....	44.3	44.0	43.2	44.2	—	6.5	6.4	5.6	6.3	—
2041	Prepared feeds, nec .....	45.5	46.1	45.1	47.5	—	6.6	6.9	6.7	8.0	—
2048	Bakery products .....	45.2	43.7	43.9	44.7	—	7.3	6.6	6.1	7.1	—
205	Bread, cake, and related products .....	39.3	39.2	38.8	38.9	—	3.5	3.4	3.4	3.5	—
2051	Cookies and crackers .....	39.3	39.0	38.7	38.7	—	4.0	3.7	3.8	4.0	—
2052	Sugar and confectionery products .....	39.2	39.9	39.5	39.6	—	1.9	2.4	2.1	2.1	—
206	Cane and beet sugar .....	39.4	39.3	39.3	39.1	—	2.5	2.9	2.2	2.3	—
2061-3	Confectionery products .....	40.8	41.1	39.7	40.5	—	3.9	4.3	2.9	3.9	—
2065	Fats and oils .....	39.2	38.1	38.6	38.6	—	1.8	2.0	1.9	1.7	—
207	Beverages .....	43.5	43.7	43.3	44.1	—	6.0	6.1	5.6	6.5	—
208	Malt beverages .....	41.2	40.5	40.5	41.2	—	5.0	4.4	3.9	4.2	—
2082	Bottled and canned soft drinks .....	42.4	41.3	41.5	42.4	—	6.0	5.1	5.0	5.5	—
2086	Misc. foods and kindred products .....	41.8	41.0	40.3	41.0	—	5.5	4.8	3.9	4.2	—
209	Misc. foods and kindred products .....	37.5	37.9	37.6	37.7	—	3.7	3.9	3.1	3.1	—
<b>TOBACCO MANUFACTURES</b>											
21	Cigarettes .....	36.2	37.5	39.1	35.8	37.4	2.0	2.0	1.0	.9	—
211	Cigarettes .....	36.1	38.4	39.5	35.2	—	2.3	2.1	.9	.8	—
<b>TEXTILE MILL PRODUCTS</b>											
22	Weaving mills, cotton .....	40.1	40.6	40.6	39.9	40.2	3.4	3.7	3.6	3.1	—
221	Weaving mills, synthetics .....	40.3	40.5	41.3	40.8	—	3.6	3.6	4.0	3.7	—
222	Weaving and finishing mills, wool .....	41.8	42.0	41.4	41.2	—	3.9	4.3	3.7	3.9	—
223	Narrow fabric mills .....	40.4	41.2	41.0	39.4	—	3.4	3.7	4.0	3.4	—
224	Knitting mills .....	39.7	39.9	40.4	40.2	—	2.4	2.9	2.8	2.4	—
225	Knitting mills .....	38.3	39.0	38.8	38.4	—	2.8	3.0	2.8	2.5	—

See footnotes at end of table.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>D</sup>	Aug. 1979 <sup>D</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>D</sup>	Aug. 1979 <sup>D</sup>
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
2251	Women's hosiery, except socks	39.2	40.1	38.8	38.3	—	3.1	3.2	3.5	3.0	—
2252	Hosiery, nec	37.4	38.2	37.7	37.7	—	2.1	2.2	2.2	2.3	—
2253	Knit outerwear mills	37.2	37.6	37.7	37.4	—	2.2	2.3	2.0	1.8	—
2254	Knit underwear mills	37.3	37.6	37.1	37.7	—	1.7	1.8	1.3	1.1	—
2257	Circular knit fabric mills	39.2	40.8	40.4	39.6	—	4.4	4.8	4.7	3.9	—
226	Textile finishing, except wool	41.3	41.6	42.0	39.6	—	3.3	4.1	4.1	2.4	—
2261	Finishing plants, cotton	41.3	41.6	41.2	39.4	—	3.8	4.2	3.8	2.6	—
2262	Finishing plants, synthetics	41.5	42.3	43.3	39.8	—	3.2	4.4	5.0	2.2	—
227	Floor covering mills	41.0	42.3	42.2	40.6	—	4.1	4.9	4.8	4.4	—
228	Yarn and thread mills	40.3	40.7	40.8	40.0	—	3.7	3.6	3.7	3.0	—
2281	Yarn mills, except wool	40.5	40.7	41.2	40.2	—	3.9	3.6	4.0	3.2	—
2282	Throwing and winding mills	40.1	40.7	39.5	39.3	—	2.9	3.7	3.2	2.9	—
229	Miscellaneous textile goods	40.3	41.4	40.9	39.9	—	3.4	4.0	3.3	2.7	—
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	35.9	36.0	35.6	35.6	35.7	1.1	1.3	1.1	.9	—
231	Men's and boys' suits and coats	37.3	36.3	35.7	36.1	—	.7	.9	.5	.4	—
232	Men's and boys' furnishings	35.7	36.4	36.5	36.1	—	.7	1.0	1.1	.8	—
2321	Men's and boys' shirts and nightwear	36.5	37.4	36.9	36.5	—	.7	1.2	1.1	.7	—
2327	Men's and boys' separate trousers	34.9	35.5	36.0	35.9	—	.7	.9	1.0	.7	—
2328	Men's and boys' work clothing	35.6	36.3	37.5	36.9	—	.6	.9	1.5	1.1	—
233	Women's and misses' outerwear	34.5	34.4	33.4	33.6	—	1.2	1.3	.9	.8	—
2331	Women's and misses' blouses and waists	34.9	35.1	34.6	35.3	—	.8	1.1	.9	.7	—
2335	Women's and misses' dresses	33.5	33.4	31.4	31.4	—	1.4	1.2	.7	.7	—
2337	Women's and misses' suits and coats	34.8	34.2	34.2	34.3	—	1.4	1.3	1.1	.7	—
2339	Women's and misses' outerwear, nec	35.2	35.5	34.7	35.1	—	1.2	1.4	1.0	.9	—
234	Women's and children's undergarments	35.4	36.6	35.7	35.0	—	.9	1.2	1.1	.8	—
2341	Women's and children's underwear	36.5	36.5	35.8	35.1	—	1.0	1.2	1.1	.8	—
2342	Brassieres and allied garments	35.6	37.2	35.2	34.8	—	.5	.9	.9	.7	—
236	Children's outerwear	36.9	36.0	36.8	36.5	—	1.5	1.3	1.3	1.1	—
2361	Children's dresses and blouses	36.6	34.6	36.9	37.1	—	2.2	1.4	1.4	1.6	—
238	Misc. apparel and accessories	37.3	36.9	37.0	36.5	—	1.0	1.5	1.2	.7	—
239	Misc. fabricated textile products	38.3	38.4	38.2	38.4	—	2.0	2.1	1.9	1.9	—
2391	Curtains and draperies	36.5	37.7	38.7	37.0	—	1.2	1.6	2.1	1.0	—
2392	House furnishings, nec	38.2	38.1	38.8	39.0	—	1.3	1.7	2.0	2.1	—
2396	Automotive and apparel trimmings	39.8	39.8	38.2	38.6	—	3.6	3.2	2.5	2.7	—
26	<b>PAPER AND ALLIED PRODUCTS</b>	42.9	42.9	42.8	42.5	42.4	5.2	5.2	4.8	4.9	—
261, 2, 6	Paper and pulp mills	45.6	45.2	45.2	45.3	—	7.0	6.8	6.6	6.9	—
262	Paper mills, except building paper	45.8	45.4	45.4	45.5	—	7.1	6.9	6.7	6.9	—
263	Paperboard mills	44.8	44.5	43.4	43.6	—	7.7	7.3	7.1	7.1	—
264	Misc. converted paper products	40.7	40.9	41.6	41.1	—	3.6	3.9	3.5	3.5	—
2641	Paper coating and glazing	42.9	43.3	45.4	44.0	—	5.0	5.5	5.4	5.1	—
2642	Envelopes	39.9	39.9	40.7	40.4	—	2.9	3.3	2.8	2.6	—
2643	Bags, except textile bags	41.5	41.6	41.1	41.2	—	3.6	3.8	3.3	3.4	—
265	Paperboard containers and boxes	41.7	42.2	41.7	40.9	—	4.1	4.4	3.6	3.5	—
2651	Folding paperboard boxes	43.1	42.6	41.5	40.8	—	5.2	4.6	3.4	3.4	—
2653	Corrugated and solid fiber boxes	41.8	42.9	41.8	41.0	—	4.4	4.9	4.2	4.1	—
2654	Sanitary food containers	41.2	41.5	42.7	41.5	—	3.9	4.0	3.3	3.3	—
27	<b>PRINTING AND PUBLISHING</b>	37.5	37.7	37.4	37.3	37.8	2.9	3.1	2.6	2.6	—
271	Newspapers	34.0	33.8	34.4	34.3	—	2.1	1.9	2.0	1.8	—
272	Periodicals	38.6	38.6	36.9	36.8	—	2.5	2.6	1.5	1.8	—
273	Books	39.6	40.8	38.5	39.0	—	3.7	4.6	3.0	3.4	—
2731	Book publishing	41.1	41.8	38.8	39.8	—	3.4	3.6	1.8	2.4	—
2732	Book printing	38.0	39.8	38.1	38.2	—	4.0	5.6	4.4	4.5	—
274	Miscellaneous publishing	36.2	36.7	36.1	34.7	—	1.9	2.1	2.0	1.5	—
275	Commercial printing	38.4	38.9	38.3	38.3	—	3.3	3.7	3.0	2.9	—
2751	Commercial printing, letterpress	38.1	38.7	38.0	37.8	—	3.0	3.4	2.5	2.4	—
2752	Commercial printing, lithographic	38.5	38.9	38.6	38.7	—	3.4	3.9	3.3	3.2	—
276	Manifold business forms	41.3	40.8	41.4	41.1	—	3.9	3.9	3.2	3.6	—
278	Blankbooks and bookbinding	38.6	39.1	38.8	38.7	—	2.3	2.5	1.9	2.0	—
279	Printing trade service	38.6	38.6	37.4	37.9	—	3.2	4.0	2.9	3.6	—
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	41.6	41.7	41.8	41.6	41.5	3.5	3.5	3.4	3.5	—
281	Industrial inorganic chemicals	42.4	42.2	41.6	41.7	—	4.1	3.8	3.8	3.9	—
2819	Industrial inorganic chemicals, nec	41.6	41.3	41.4	41.4	—	3.6	3.4	3.3	3.3	—
282	Plastics materials and synthetics	42.3	42.4	42.2	42.2	—	3.5	3.4	3.4	3.6	—
2821	Plastics materials and resins	42.9	43.6	43.0	42.6	—	4.6	4.7	4.4	4.4	—
2824	Organic fibers, noncellulosic	41.9	41.7	41.7	42.1	—	2.6	2.5	2.6	3.1	—
283	Drugs	40.9	41.2	40.5	40.7	—	2.6	2.6	2.4	2.5	—
2834	Pharmaceutical preparations	40.1	40.6	39.9	40.4	—	2.5	2.5	2.4	2.4	—

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	\$266.67	\$269.47	\$290.29	\$286.63	-	\$6.65	\$6.67	\$7.15	\$7.13	-
2841	Soap and other detergents .....	372.82	382.77	409.53	409.79	-	8.65	8.66	9.35	9.53	-
2842, 3	Polishing, sanitation, and finishing preparations .....	237.79	242.80	255.20	252.89	-	5.93	6.01	6.38	6.37	-
2844	Toilet preparations .....	209.00	207.52	222.91	216.40	-	5.50	5.49	5.76	5.65	-
285	Paints and allied products .....	261.02	261.66	284.50	283.40	-	6.32	6.29	6.79	6.78	-
286	Industrial organic chemicals .....	349.85	348.15	391.94	389.66	-	8.31	8.25	9.01	9.02	-
2865	Cyclic crudes and intermediates .....	306.68	310.84	360.26	360.57	-	7.48	7.49	8.32	8.27	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	365.08	361.68	403.74	399.90	-	8.59	8.51	9.26	9.30	-
287	Agricultural chemicals .....	287.64	287.70	307.02	310.48	-	6.80	6.85	7.14	7.41	-
288	Miscellaneous chemical products .....	269.21	270.52	289.26	293.04	-	6.55	6.55	6.97	7.13	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	380.95	377.96	403.19	413.22	\$404.78	8.58	8.59	9.29	9.37	\$9.37
291	Petroleum refining .....	405.48	401.26	434.02	443.56	-	9.30	9.31	10.07	10.15	-
295	Paving and roofing materials .....	324.09	326.80	326.16	338.06	-	6.71	6.78	7.20	7.27	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	223.71	226.59	239.72	237.79	231.24	5.51	5.54	5.89	5.93	5.81
301	Tires and inner tubes .....	336.69	348.21	347.76	347.71	-	7.83	7.95	8.40	8.46	-
302	Rubber and plastics footwear .....	136.89	139.50	154.22	156.11	-	3.73	3.76	4.08	4.13	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	230.36	237.42	260.04	247.82	-	5.66	5.68	6.09	6.18	-
306	Fabricated rubber products, nec .....	210.27	212.26	227.05	226.51	-	5.27	5.28	5.62	5.72	-
307	Miscellaneous plastics products .....	203.21	203.62	222.22	218.80	-	5.03	5.04	5.46	5.47	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	145.88	144.35	155.45	154.61	154.03	3.89	3.87	4.19	4.19	4.22
311	Leather tanning and finishing .....	202.52	196.86	216.12	205.90	-	5.14	5.10	5.57	5.52	-
314	Footwear, except rubber .....	139.50	139.13	149.85	150.63	-	3.73	3.72	4.05	4.06	-
3143	Men's footwear, except athletic .....	144.35	147.45	159.09	157.73	-	3.87	3.87	4.22	4.24	-
3144	Women's footwear, except athletic .....	136.84	133.92	141.60	145.10	-	3.62	3.60	3.89	3.89	-
316	Luggage .....	156.29	148.78	155.81	154.44	-	4.19	4.11	4.34	4.29	-
317	Handbags and personal leather goods .....	138.76	139.13	151.10	147.17	-	3.72	3.71	4.04	4.01	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	301.20	307.49	321.20	325.21	328.03	7.53	7.63	8.01	8.11	8.16
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	326.34	342.27	380.61	(*)	-	7.77	7.64	8.67	(*)	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	216.75	215.65	210.52	238.39	-	5.89	5.86	5.93	6.29	-
411	Local and suburban transportation .....	283.39	286.18	291.62	298.33	-	6.98	6.98	7.01	7.12	-
413	Intercity highway transportation .....	323.11	313.36	333.89	370.68	-	8.18	8.29	8.65	9.13	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	316.31	317.90	334.03	331.85	-	7.81	7.83	8.33	8.38	-
421, 3	Trucking and trucking terminals .....	323.18	325.19	340.05	338.64	-	7.96	7.99	8.48	8.53	-
422	Public warehousing .....	216.28	217.33	227.15	230.86	-	5.56	5.53	5.90	5.95	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	362.25	355.97	384.81	387.69	-	8.75	8.64	9.34	9.41	-
48	<b>COMMUNICATION</b> .....	286.00	302.30	300.09	301.15	-	7.15	7.52	7.54	7.51	-
481	Telephone communication .....	294.52	314.61	308.74	309.83	-	7.29	7.73	7.68	7.65	-
4817	Switchboard operating employees .....	217.20	229.91	213.36	224.64	-	6.05	6.44	6.35	6.40	-
4818	Line construction employees <sup>3</sup> .....	395.14	431.41	415.30	415.74	-	8.82	9.44	9.27	9.28	-
483	Radio and television broadcasting .....	249.45	248.71	260.14	260.52	-	6.53	6.65	6.81	6.82	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> ..	318.24	318.24	340.23	342.37	-	7.65	7.65	8.12	8.23	-
491	Electric services .....	325.43	323.11	353.96	353.62	-	7.73	7.73	8.27	8.34	-
492	Gas production and distribution .....	286.34	288.16	305.37	306.36	-	7.07	7.08	7.54	7.64	-
493	Combination utility services .....	352.78	354.05	368.58	377.73	-	8.46	8.47	8.86	9.08	-
495	Sanitary services .....	264.97	267.65	276.89	271.67	-	6.22	6.21	6.64	6.61	-
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	157.04	156.45	165.16	167.83	167.66	4.66	4.67	5.02	5.04	5.05
50, 51	<b>WHOLESALE TRADE</b> .....	230.49	230.88	247.65	250.24	250.13	5.91	5.92	6.35	6.40	6.43
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	234.04	234.04	250.43	251.77	-	5.91	5.91	6.34	6.39	-
501	Motor vehicles and automotive equipment .....	215.44	214.82	231.47	230.08	-	5.51	5.48	5.92	5.93	-
502	Furniture and home furnishings .....	202.69	202.77	223.18	227.24	-	5.32	5.35	5.92	5.98	-
503	Lumber and construction materials .....	235.82	239.40	254.23	255.52	-	5.94	6.00	6.42	6.42	-
504	Sporting goods, toys, and hobby goods .....	225.22	226.42	241.16	241.39	-	5.99	5.99	6.38	6.42	-

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				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	40.1	40.4	40.6	40.2	-	2.8	3.3	2.9	2.7	-
2841	Soap and other detergents .....	43.1	44.2	43.8	43.0	-	4.8	5.8	5.0	5.1	-
2842, 3	Polishing, sanitation, and finishing preparations .....	40.1	40.4	40.0	39.7	-	2.5	3.3	2.4	2.3	-
2844	Toilet preparations .....	38.0	37.8	38.7	38.3	-	1.6	1.7	1.5	1.3	-
285	Paints and allied products .....	41.3	41.6	41.9	41.8	-	3.6	3.5	3.5	3.4	-
286	Industrial organic chemicals .....	42.1	42.2	43.5	43.2	-	4.0	3.7	4.4	4.4	-
2865	Cyclic crudes and intermediates .....	41.0	41.5	43.3	43.6	-	3.4	3.4	4.8	4.5	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	42.5	42.5	43.6	43.0	-	4.2	3.8	4.3	4.4	-
287	Agricultural chemicals .....	42.3	42.0	43.0	41.9	-	4.5	4.4	4.5	4.3	-
289	Miscellaneous chemical products .....	41.1	41.3	41.5	41.1	-	3.5	3.4	3.1	3.4	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	44.4	44.0	43.4	44.1	43.2	4.5	4.4	4.2	4.5	-
291	Petroleum refining .....	43.6	43.1	43.1	43.7	-	3.4	3.2	3.4	3.7	-
295	Paving and roofing materials .....	48.3	48.2	45.3	46.5	-	9.0	9.1	7.3	7.8	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	40.6	40.9	40.7	40.1	39.8	3.5	3.7	3.3	3.0	-
301	Tires and inner tubes .....	43.0	43.8	41.4	41.1	-	5.0	5.4	3.7	3.7	-
302	Rubber and plastics footwear .....	36.7	37.1	37.8	37.8	-	1.5	2.1	1.9	1.2	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	40.7	41.8	42.7	40.1	-	4.4	4.3	5.3	4.2	-
306	Fabricated rubber products, nec .....	39.9	40.2	40.4	39.6	-	3.0	3.3	3.0	2.5	-
307	Miscellaneous plastics products .....	40.4	40.4	40.7	40.0	-	3.3	3.4	3.3	2.9	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	37.5	37.3	37.1	36.9	36.5	1.6	1.7	1.7	1.4	-
311	Leather tanning and finishing .....	39.4	38.6	38.8	37.3	-	2.7	2.4	2.3	1.7	-
314	Footwear, except rubber .....	37.4	37.4	37.0	37.1	-	1.4	1.7	1.7	1.4	-
3143	Men's footwear, except athletic .....	37.3	38.1	37.7	37.2	-	1.4	1.6	1.5	.9	-
3144	Women's footwear, except athletic .....	37.8	37.2	36.4	37.3	-	1.8	2.1	2.0	2.1	-
316	Luggage .....	37.3	36.2	35.9	36.0	-	1.9	1.5	1.7	1.5	-
317	Handbags and personal leather goods .....	37.3	37.5	37.4	36.7	-	1.8	2.1	1.7	1.5	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.0	40.3	40.1	40.1	40.2	-	-	-	-	-
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	42.0	44.8	43.9	(*)	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	36.8	36.8	35.5	37.9	-	-	-	-	-	-
411	Local and suburban transportation .....	40.6	41.0	41.6	41.9	-	-	-	-	-	-
413	Intercity highway transportation .....	39.5	37.8	38.6	40.6	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	40.5	40.6	40.1	39.6	-	-	-	-	-	-
421, 3	Trucking and trucking terminals .....	40.6	40.7	40.1	39.7	-	-	-	-	-	-
422	Public warehousing .....	38.9	39.3	38.5	38.8	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	41.4	41.2	41.2	41.2	-	-	-	-	-	-
48	<b>COMMUNICATION</b> .....	40.0	40.2	39.8	40.1	-	-	-	-	-	-
481	Telephone communication .....	40.4	40.7	40.2	40.5	-	-	-	-	-	-
4817	Switchboard operating employees <sup>3</sup> .....	35.9	35.7	33.6	35.1	-	-	-	-	-	-
4816	Line construction employees <sup>4</sup> .....	44.8	45.7	44.8	44.8	-	-	-	-	-	-
483	Radio and television broadcasting .....	38.2	37.4	38.2	38.2	-	-	-	-	-	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	41.6	41.6	41.9	41.6	-	-	-	-	-	-
491	Electric services .....	42.1	41.8	42.8	42.4	-	-	-	-	-	-
492	Gas production and distribution .....	40.5	40.7	40.5	40.1	-	-	-	-	-	-
493	Combination utility services .....	41.7	41.8	41.6	41.6	-	-	-	-	-	-
495	Sanitary services .....	42.6	43.1	41.7	41.1	-	-	-	-	-	-
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	33.7	33.5	32.9	33.3	33.2	-	-	-	-	-
50, 51	<b>WHOLESALE TRADE</b> .....	39.0	39.0	39.0	39.1	38.9	-	-	-	-	-
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	39.6	39.6	39.5	39.4	-	-	-	-	-	-
501	Motor vehicles and automotive equipment .....	39.1	39.2	39.1	38.8	-	-	-	-	-	-
502	Furniture and home furnishings .....	38.1	37.9	37.7	38.0	-	-	-	-	-	-
503	Lumber and construction materials .....	39.7	39.9	39.6	39.8	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods .....	37.6	37.8	37.8	37.6	-	-	-	-	-	-

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				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>p</sup>	Aug. 1979 <sup>p</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>p</sup>	Aug. 1979 <sup>p</sup>
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
506	Metals and minerals, except petroleum .....	\$263.14	\$267.92	\$291.67	\$291.80	—	\$6.73	\$6.80	\$7.31	\$7.35	—
508	Electrical goods .....	235.22	234.42	249.74	253.89	—	5.97	5.98	6.42	6.51	—
507	Hardware, plumbing, and heating equipment .....	218.68	220.77	233.86	236.16	—	5.68	5.69	6.09	6.15	—
508	Machinery, equipment, and supplies .....	249.27	247.63	263.06	266.12	—	6.17	6.16	6.56	6.62	—
509	Miscellaneous durable goods .....	196.17	199.48	213.44	210.60	—	5.03	5.05	5.39	5.40	—
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	226.74	226.91	243.59	247.17	—	5.92	5.94	6.36	6.42	—
511	Paper and paper products .....	253.27	259.47	269.69	268.97	—	6.92	7.07	7.45	7.43	—
512	Drugs, proprietaries, and sundries .....	234.08	231.87	248.90	248.41	—	6.16	6.07	6.55	6.52	—
513	Apparel, piece goods, and notions .....	196.20	198.56	217.12	219.19	—	5.39	5.44	5.90	5.94	—
514	Groceries and related products .....	231.07	231.60	245.88	252.59	—	5.94	6.00	6.37	6.46	—
516	Chemicals and allied products .....	259.50	261.97	296.96	295.37	—	6.62	6.70	7.48	7.44	—
517	Petroleum and petroleum products .....	275.42	275.32	304.00	306.43	—	6.92	6.97	7.60	7.68	—
518	Beer, wine, and distilled beverages .....	265.79	267.52	277.88	279.75	—	7.05	7.04	7.41	7.50	—
519	Miscellaneous nondurable goods .....	182.95	181.61	199.40	201.08	—	4.84	4.83	5.22	5.25	—
52-59	<b>RETAIL TRADE</b> .....	134.08	133.24	139.19	141.75	\$141.61	4.19	4.19	4.49	4.50	\$4.51
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	181.20	182.83	188.71	191.73	—	4.67	4.70	4.94	4.98	—
521	Lumber and other building materials .....	202.13	203.77	209.68	211.41	—	4.93	4.97	5.19	5.22	—
526	Hardware stores .....	139.87	137.74	146.01	148.61	—	3.94	3.88	4.22	4.21	—
53	<b>GENERAL MERCHANDISE STORES</b> .....	132.62	122.81	130.50	134.16	—	4.08	4.08	4.35	4.37	—
531	Department stores .....	128.90	127.93	136.65	140.61	—	4.24	4.25	4.54	4.58	—
533	Variety stores .....	100.79	101.78	107.70	108.72	—	3.44	3.45	3.59	3.53	—
539	Misc. general merchandise stores .....	99.20	98.56	103.55	107.36	—	3.20	3.20	3.51	3.52	—
54	<b>FOOD STORES</b> .....	174.16	172.26	182.74	184.99	—	5.23	5.22	5.64	5.64	—
541	Grocery stores .....	180.97	178.82	189.91	192.23	—	5.37	5.37	5.79	5.79	—
548	Retail bakeries .....	120.90	118.86	129.65	131.84	—	3.99	3.91	4.38	4.38	—
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	189.00	187.98	201.10	203.61	—	5.00	4.96	5.32	5.33	—
551, 2	New and used car dealers .....	233.47	231.55	241.18	240.01	—	6.08	6.03	6.20	6.17	—
553	Auto and home supply stores .....	188.78	188.10	195.05	199.98	—	4.56	4.50	4.84	4.95	—
554	Gasoline service stations .....	131.02	130.68	141.10	147.29	—	3.67	3.64	4.02	4.08	—
56	<b>APPAREL AND ACCESSORY STORES</b> .....	113.65	112.48	117.71	120.30	—	3.69	3.70	3.99	4.01	—
561	Men's and boys' clothing and furnishings .....	139.73	136.83	146.12	150.42	—	4.26	4.21	4.51	4.60	—
562	Women's ready-to-wear stores .....	101.23	98.84	103.13	106.35	—	3.42	3.42	3.67	3.68	—
566	Family clothing stores .....	112.54	110.18	114.26	114.90	—	3.55	3.52	3.86	3.83	—
568	Shoe stores .....	118.86	120.78	125.08	127.28	—	3.91	3.96	4.24	4.30	—
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	170.63	172.68	182.31	183.56	—	4.82	4.81	5.15	5.20	—
571	Furniture and home furnishings .....	175.30	177.15	186.74	187.26	—	4.98	4.99	5.29	5.32	—
572	Household appliance stores .....	180.80	184.88	200.74	198.38	—	4.94	4.93	5.53	5.45	—
573	Radio, television, and music stores .....	152.57	153.06	161.67	163.09	—	4.31	4.24	4.58	4.70	—
58	<b>EATING AND DRINKING PLACES<sup>1</sup></b> .....	90.60	89.96	91.31	93.64	—	3.19	3.19	3.42	3.43	—
59	<b>MISCELLANEOUS RETAIL</b> .....	134.64	135.63	142.97	145.96	—	4.08	4.11	4.44	4.45	—
591	Drug stores and proprietary stores .....	123.52	124.29	129.56	131.70	—	3.86	3.86	4.10	4.09	—
594	Miscellaneous shopping goods stores .....	122.47	124.09	129.89	132.07	—	3.78	3.83	4.19	4.14	—
596	Nonstore retailers .....	164.95	166.82	176.35	180.83	—	4.74	4.78	5.28	5.35	—
598	Fuel and ice dealers .....	198.78	198.83	222.53	222.34	—	5.19	5.26	5.75	5.79	—
599	Retail stores, nec .....	135.38	135.46	149.52	154.58	—	4.14	4.13	4.49	4.56	—
—	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>2</sup></b> .....	180.93	179.71	188.96	192.56	190.94	4.93	4.91	5.22	5.29	5.26
60	<b>BANKING</b> .....	155.72	154.09	161.81	166.62	—	4.22	4.21	4.47	4.54	—
602	Commercial and stock savings banks .....	152.40	150.79	159.28	164.05	—	4.13	4.12	4.40	4.47	—
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	165.31	163.47	168.73	174.27	—	4.48	4.43	4.61	4.71	—
612	Savings and loan associations .....	157.81	153.97	161.64	168.54	—	4.30	4.23	4.49	4.58	—
614	Personal credit institutions .....	162.43	160.95	164.94	168.63	—	4.39	4.35	4.47	4.57	—
63	<b>INSURANCE CARRIERS</b> .....	195.45	195.83	208.50	209.81	—	5.24	5.25	5.62	5.64	—
631	Life insurance .....	194.09	194.09	207.92	207.92	—	5.26	5.26	5.65	5.65	—
632	Medical service and health insurance .....	187.98	186.73	205.50	206.27	—	4.96	4.94	5.48	5.53	—
633	Fire, marine, and casualty insurance .....	198.44	199.18	208.29	211.47	—	5.32	5.34	5.66	5.70	—

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				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
	<b>WHOLESALE TRADE-DURABLE</b>										
	GOODS—Continued										
505	Metals and minerals, except petroleum .....	39.1	39.4	39.9	39.7	-	-	-	-	-	-
506	Electrical goods .....	39.4	39.2	38.9	39.0	-	-	-	-	-	-
507	Hardware, plumbing, and heating equipment .....	38.5	38.8	38.4	38.4	-	-	-	-	-	-
508	Machinery, equipment, and supplies .....	40.4	40.2	40.1	40.2	-	-	-	-	-	-
509	Miscellaneous durable goods .....	39.0	39.5	39.6	39.0	-	-	-	-	-	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	38.3	38.2	38.3	38.5	-	-	-	-	-	-
511	Paper and paper products .....	36.6	36.7	36.2	36.2	-	-	-	-	-	-
512	Drugs, proprietaries, and sundries .....	38.0	38.2	38.0	38.1	-	-	-	-	-	-
513	Apparel, piece goods, and notions .....	36.4	36.5	36.8	36.9	-	-	-	-	-	-
514	Groceries and related products .....	38.9	38.6	38.6	39.1	-	-	-	-	-	-
516	Chemicals and allied products .....	39.2	39.1	39.7	39.7	-	-	-	-	-	-
517	Petroleum and petroleum products .....	39.8	39.5	40.0	39.9	-	-	-	-	-	-
518	Beer, wine, and distilled beverages .....	37.7	38.0	37.5	37.3	-	-	-	-	-	-
519	Miscellaneous nondurable goods .....	37.8	37.6	38.2	38.3	-	-	-	-	-	-
52-59	<b>RETAIL TRADE</b> .....	32.0	31.8	31.0	31.5	31.4	-	-	-	-	-
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	SUPPLIES .....	38.8	38.9	38.2	38.5	-	-	-	-	-	-
521	Lumber and other building materials .....	41.0	41.0	40.4	40.5	-	-	-	-	-	-
526	Hardware stores .....	35.5	35.5	34.6	35.3	-	-	-	-	-	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	30.3	30.1	30.0	30.7	-	-	-	-	-	-
531	Department stores .....	30.4	30.1	30.1	30.7	-	-	-	-	-	-
533	Variety stores .....	29.3	29.5	30.0	30.8	-	-	-	-	-	-
539	Misc. general merchandise stores .....	31.0	30.8	29.5	30.5	-	-	-	-	-	-
54	<b>FOOD STORES</b> .....	33.3	33.0	32.4	32.8	-	-	-	-	-	-
541	Grocery stores .....	33.7	33.3	32.8	33.2	-	-	-	-	-	-
546	Retail bakeries .....	30.3	30.4	29.6	30.1	-	-	-	-	-	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	STATIONS .....	37.8	37.9	37.8	38.2	-	-	-	-	-	-
551, 2	New and used car dealers .....	38.4	38.4	38.9	38.9	-	-	-	-	-	-
553	Auto and home supply stores .....	41.4	41.8	40.3	40.4	-	-	-	-	-	-
554	Gasoline service stations .....	35.7	35.9	35.1	36.1	-	-	-	-	-	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	30.8	30.4	29.5	30.0	-	-	-	-	-	-
561	Men's and boys' clothing and furnishings .....	32.8	32.5	32.4	32.7	-	-	-	-	-	-
562	Women's ready-to-wear stores .....	29.6	28.9	28.1	28.9	-	-	-	-	-	-
565	Family clothing stores .....	31.7	31.3	29.6	30.0	-	-	-	-	-	-
565	Shoe stores .....	30.4	30.5	29.5	29.6	-	-	-	-	-	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	STORES .....	35.4	35.9	35.4	35.3	-	-	-	-	-	-
571	Furniture and home furnishings .....	35.2	35.5	35.3	35.2	-	-	-	-	-	-
572	Household appliance stores .....	36.6	37.5	36.3	36.4	-	-	-	-	-	-
573	Radio, television, and music stores .....	35.4	36.1	35.3	34.7	-	-	-	-	-	-
58	<b>EATING AND DRINKING PLACES</b> <sup>5</sup> .....	28.4	28.2	26.7	27.3	-	-	-	-	-	-
59	<b>MISCELLANEOUS RETAIL</b> .....	33.0	33.0	32.2	32.8	-	-	-	-	-	-
591	Drug stores and proprietary stores .....	32.0	32.2	31.6	32.2	-	-	-	-	-	-
594	Miscellaneous shopping goods stores .....	32.4	32.4	31.0	31.9	-	-	-	-	-	-
596	Nonstore retailers .....	34.8	34.9	33.4	33.8	-	-	-	-	-	-
598	Fuel and ice dealers .....	38.3	37.8	38.7	38.4	-	-	-	-	-	-
599	Retail stores, nec .....	32.7	32.8	33.3	33.9	-	-	-	-	-	-
-	<b>FINANCE, INSURANCE, AND REAL</b>										
	ESTATE <sup>6</sup> .....	36.7	36.6	36.2	36.4	36.3	-	-	-	-	-
60	<b>BANKING</b> .....	36.9	36.6	36.2	36.7	-	-	-	-	-	-
602	Commercial and stock savings banks .....	36.9	36.6	36.2	36.7	-	-	-	-	-	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	36.9	36.9	36.6	37.0	-	-	-	-	-	-
612	Savings and loan associations .....	36.7	36.4	36.0	36.8	-	-	-	-	-	-
614	Personal credit institutions .....	37.0	37.0	36.9	36.9	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b> .....	37.3	37.3	37.1	37.2	-	-	-	-	-	-
631	Life insurance .....	36.9	36.9	36.8	36.8	-	-	-	-	-	-
632	Medical service and health insurance .....	37.9	37.8	37.5	37.3	-	-	-	-	-	-
633	Fire, marine, and casualty insurance .....	37.3	37.3	36.8	37.1	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
-	<b>SERVICES</b> .....	\$164.84	\$164.01	\$173.38	\$176.16	\$176.49	\$4.95	\$4.94	\$5.27	\$5.29	\$5.30
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts .....	115.31	113.96	123.86	125.65	-	3.57	3.55	3.97	3.94	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	130.15	131.20	141.11	142.00	-	3.74	3.77	4.09	4.14	-
723	Beauty shops .....	121.76	118.50	131.25	130.78	-	3.89	3.86	4.18	4.26	-
73	<b>BUSINESS SERVICES</b> .....	169.98	169.65	178.76	181.83	-	5.12	5.11	5.45	5.51	-
731	Advertising .....	258.83	285.84	267.89	272.70	-	7.23	7.17	7.38	7.66	-
734	Services to buildings .....	124.65	122.82	128.51	132.41	-	4.50	4.45	4.69	4.85	-
737	Computer and data processing services .....	213.23	212.34	231.21	235.52	-	5.81	5.77	6.30	6.40	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> ...	189.88	190.88	209.81	211.50	-	5.01	5.01	5.58	5.61	-
753	Automotive repair shops .....	211.53	214.38	231.67	231.84	-	5.41	5.40	5.91	5.96	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	242.81	245.62	256.37	259.37	-	6.04	6.11	6.33	6.42	-
78	<b>MOTION PICTURES</b> .....	188.11	192.82	179.52	183.75	-	6.42	6.54	6.60	6.47	-
781	Motion picture production and services .....	365.85	373.60	370.36	361.46	-	9.73	9.78	9.57	9.34	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> ...	148.48	143.47	149.15	154.11	-	4.38	4.27	4.72	4.67	-
80	<b>HEALTH SERVICES</b> .....	160.61	159.17	168.99	172.86	-	4.78	4.78	5.09	5.16	-
801	Offices of physicians .....	166.17	164.67	175.03	175.83	-	4.99	4.96	5.32	5.41	-
802	Offices of dentists .....	136.12	136.71	148.09	147.81	-	4.71	4.65	5.16	5.15	-
805	Nursing and personal care facilities .....	115.56	112.37	119.04	123.70	-	3.60	3.59	3.84	3.89	-
806	Hospitals .....	175.08	174.75	185.61	189.66	-	5.06	5.08	5.38	5.45	-
81	<b>LEGAL SERVICES</b> .....	217.17	211.54	229.82	233.24	-	6.35	6.24	6.72	6.82	-
89	<b>MISCELLANEOUS SERVICES</b> .....	272.84	274.56	286.51	290.30	-	7.18	7.15	7.52	7.68	-
891	Engineering and architectural services .....	291.36	294.00	308.80	309.93	-	7.49	7.50	8.00	8.05	-
893	Accounting, auditing, and bookkeeping .....	238.72	238.52	251.66	259.61	-	6.40	6.31	6.64	6.96	-

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

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

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

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

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

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

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

\* Not available.

<sup>P</sup> preliminary.

**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				
		July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. <sup>P</sup> 1979 <sup>P</sup>	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. <sup>P</sup> 1979 <sup>P</sup>
-	<b>SERVICES</b> .....	33.3	33.2	32.9	33.3	33.3	-	-	-	-	-
701	<b>HOTELS AND OTHER LODGING PLACES:</b> Hotels, motels, and tourist courts .....	32.3	32.1	31.2	31.9	-	-	-	-	-	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	34.8	34.8	34.5	34.3	-	-	-	-	-	
723	Beauty shops .....	31.3	30.7	31.4	30.7	-	-	-	-	-	
73	<b>BUSINESS SERVICES</b> .....	33.2	33.2	32.8	33.0	-	-	-	-	-	
731	Advertising .....	35.8	36.1	36.3	35.6	-	-	-	-	-	
734	Services to buildings .....	27.7	27.6	27.4	27.3	-	-	-	-	-	
737	Computer and data processing services .....	36.7	36.8	36.7	36.8	-	-	-	-	-	
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	37.9	38.1	37.6	37.7	-	-	-	-	-	
753	Automotive repair shops .....	39.1	39.7	39.2	38.9	-	-	-	-	-	
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	40.2	40.2	40.5	40.4	-	-	-	-	-	
78	<b>MOTION PICTURES</b> .....	29.3	29.4	27.2	28.4	-	-	-	-	-	
781	Motion picture production and services .....	37.6	38.2	38.7	38.7	-	-	-	-	-	
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	33.9	33.6	31.6	33.0	-	-	-	-	-	
80	<b>HEALTH SERVICES</b> .....	33.6	33.3	33.2	33.5	-	-	-	-	-	
801	Offices of physicians .....	33.3	33.2	32.9	32.5	-	-	-	-	-	
802	Offices of dentists .....	28.9	29.4	28.7	28.7	-	-	-	-	-	
805	Nursing and personal care facilities .....	32.1	31.3	31.0	31.8	-	-	-	-	-	
806	Hospitals .....	34.6	34.4	34.5	34.8	-	-	-	-	-	
81	<b>LEGAL SERVICES</b> .....	34.2	33.9	34.2	34.2	-	-	-	-	-	
89	<b>MISCELLANEOUS SERVICES</b> .....	38.0	38.4	38.1	37.8	-	-	-	-	-	
891	Engineering and architectural services .....	38.9	39.2	38.6	38.5	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping .....	37.3	37.8	37.9	37.3	-	-	-	-	-	

# 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				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
<b>Executive Branch</b>													
Total employment .....	2,702.9	2,747.5	2,760.3	2,738.5	2,691.9	2,694.5	2,694.4	2,681.2	2,677.5	2,686.3	2,688.3	2,697.4	2,720.3
Average weekly hours .....	39.5	39.6	39.8	39.7	39.5	39.9	39.9	40.1	39.7	39.7	39.5	39.5	39.4
Average overtime hours .....	1.1	1.1	1.2	1.2	1.3	1.3	1.2	1.5	1.2	1.1	1.1	1.1	1.0
Indexes (1967=100):													
Average weekly earnings .....	226.0	226.5	227.7	226.8	230.0	242.0	239.2	244.3	243.2	242.4	240.6	239.8	238.9
Average hourly earnings .....	225.4	225.4	225.4	225.1	229.5	238.9	242.2	240.0	241.4	240.5	240.0	239.2	238.9
<b>Department of Defense</b>													
Total employment .....	911.3	924.8	927.1	918.6	905.4	905.8	905.3	902.0	896.0	895.0	892.0	890.0	896.6
Average weekly hours .....	40.0	40.0	40.1	40.1	39.7	39.9	40.0	39.8	39.9	39.9	39.9	39.9	39.9
Average overtime hours .....	.9	1.0	.9	1.0	1.2	1.0	.8	.9	.8	.9	.9	.8	.8
Indexes (1967=100):													
Average weekly earnings .....	222.0	221.5	220.4	221.2	223.3	232.5	233.7	234.1	234.7	234.7	235.2	234.4	235.2
Average hourly earnings .....	223.7	223.2	221.5	222.3	226.7	234.9	235.4	237.1	237.1	237.1	237.6	236.8	237.6
<b>Postal Service</b>													
Total employment .....	648.3	648.3	647.5	649.0	651.9	646.9	651.4	651.4	653.0	655.2	655.4	655.0	659.5
Average weekly hours .....	39.9	40.0	40.2	39.9	39.7	41.5	41.2	42.6	41.2	41.0	40.2	40.2	39.8
Average overtime hours .....	1.5	1.6	1.8	1.5	1.8	2.3	1.9	3.1	2.6	1.8	1.6	1.7	1.3
Indexes (1967=100):													
Average weekly earnings .....	254.3	259.7	261.9	260.3	259.3	278.7	275.9	289.4	280.8	276.9	271.5	271.8	268.1
Average hourly earnings .....	246.0	250.6	251.5	251.8	252.1	259.5	258.5	262.2	263.1	260.7	260.7	261.0	260.1
<b>Other Agencies</b>													
Total employment .....	1,143.3	1,174.4	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
Average weekly hours .....	38.8	39.0	39.3	39.3	39.1	39.0	39.0	38.8	38.7	38.8	38.8	38.8	38.8
Average overtime hours .....	1.0	1.0	1.1	1.2	1.2	1.1	1.0	1.0	.9	1.0	1.0	1.0	1.1
Indexes (1967=100):													
Average weekly earnings .....	213.4	212.0	214.6	213.4	218.3	229.1	231.4	227.7	229.9	229.7	227.7	226.7	226.0
Average hourly earnings .....	213.4	210.9	211.9	210.6	216.6	228.0	230.2	227.7	230.4	229.7	227.7	226.7	226.0

NOTE: The hours and earnings averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from agencies with 2600 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-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>				
	July 1978	Aug. 1978	June 1979	July 1979 <sup>p</sup>	Aug. 1979 <sup>p</sup>
<b>MANUFACTURING</b> .....	\$ 5.92	\$ 5.90	\$ 6.39	\$ 6.45	\$ 6.41
<b>DURABLE GOODS</b> .....	6.29	6.28	6.81	6.85	6.80
Lumber and wood products .....	5.45	5.41	5.89	5.96	-
Furniture and fixtures .....	4.54	4.56	4.91	4.94	-
Stone, clay, and glass products .....	6.01	6.03	6.46	6.52	-
Primary metal industries .....	7.81	7.91	8.49	8.61	-
Fabricated metal products .....	6.06	6.07	6.53	6.55	-
Machinery, except electrical .....	6.43	6.44	6.99	7.02	-
Electric and electronic equipment .....	5.65	5.67	6.06	6.10	-
Transportation equipment .....	7.41	7.38	8.10	8.13	-
Instruments and related products .....	5.55	5.56	5.93	5.99	-
Miscellaneous manufacturing industries .....	4.58	4.56	4.86	4.93	-
<b>NONDURABLE GOODS</b> .....	5.35	5.33	5.71	5.80	5.80
Food and kindred products .....	5.51	5.50	5.94	5.97	-
Tobacco manufactures .....	6.40	6.14	6.81	6.84	-
Textile mill products .....	4.14	4.19	4.35	4.48	-
Apparel and other textile products .....	3.85	3.86	4.14	4.17	-
Paper and allied products .....	6.24	6.21	6.68	6.78	-
Printing and publishing .....	6.23	6.25	6.63	6.64	-
Chemicals and allied products .....	6.76	6.78	7.23	7.28	-
Petroleum and coal products .....	8.16	8.17	8.86	8.91	-
Rubber and misc. plastics products .....	5.28	5.30	5.66	5.72	-
Leather and leather products .....	3.81	3.78	4.10	4.12	-

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

p=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		
	July 1978	June 1979	July 1979 <sup>P</sup>	July 1978	June 1979	July 1979 <sup>P</sup>	July 1978	June 1979	July 1979 <sup>P</sup>
<b>TOTAL PRIVATE:</b>									
Current dollars .....	\$206.55	\$219.35	\$221.40	\$167.44	\$177.59	\$179.08	\$182.85	\$194.39	\$195.98
1967 dollars .....	105.01	101.13	100.91	85.12	81.88	81.62	92.96	89.62	89.33
<b>MINING:</b>									
Current dollars .....	337.82	366.75	359.10	255.44	276.45	271.57	280.06	304.46	298.89
1967 dollars .....	171.74	169.09	163.67	129.86	127.46	123.78	142.38	140.37	136.23
<b>CONSTRUCTION:</b>									
Current dollars .....	329.67	346.56	347.97	250.31	263.56	264.46	274.20	289.75	290.78
1967 dollars .....	167.60	159.78	158.60	127.25	121.51	120.54	139.40	133.59	132.53
<b>MANUFACTURING:</b>									
Current dollars .....	248.65	269.06	268.40	196.97	212.51	212.06	214.40	232.17	231.67
1967 dollars .....	126.41	124.05	122.33	100.14	97.98	96.65	109.00	107.04	105.59
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars .....	301.20	321.20	325.21	231.89	247.36	249.92	253.71	271.27	274.19
1967 dollars .....	153.13	148.09	148.23	117.89	114.04	113.91	128.98	125.07	124.97
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars .....	157.04	165.16	167.83	131.37	137.75	139.74	144.75	155.04	157.03
1967 dollars .....	79.84	76.15	76.49	66.79	63.51	63.69	73.59	71.48	71.57
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars .....	180.93	188.96	192.56	149.01	155.45	158.07	163.35	171.14	173.53
1967 dollars .....	91.98	87.12	87.77	75.75	71.67	72.05	83.05	78.90	79.09
<b>SERVICES:</b>									
Current dollars .....	164.84	173.38	176.16	137.22	143.90	145.98	150.83	160.77	162.64
1967 dollars .....	83.80	79.94	80.29	69.76	66.34	66.54	76.68	74.12	74.13
<b>CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)</b> .....	196.7	216.9	219.4						

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

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

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

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

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

[1967=100]

Industry division and group	July 1978	Aug. 1978	June 1979	July 1979 <sup>p</sup>	Aug. 1979 <sup>p</sup>
	Hours				
<b>TOTAL PRIVATE</b> .....	122.8	123.4	126.5	126.3	126.5
<b>GOODS-PRODUCING</b> .....	107.0	108.5	112.0	109.8	110.3
<b>MINING</b> .....	147.2	147.8	154.0	149.5	152.9
<b>CONSTRUCTION</b> .....	135.8	137.1	142.4	145.5	147.8
<b>MANUFACTURING</b> .....	100.5	102.0	105.2	102.0	102.2
<b>DURABLE GOODS</b> .....	102.6	103.1	109.0	105.2	103.7
Lumber and wood products.....	116.8	117.5	119.2	115.9	118.5
Furniture and fixtures.....	104.5	108.7	105.1	100.9	103.9
Stone, clay, and glass products.....	114.7	114.9	116.8	114.2	115.6
Primary metal industries.....	94.5	94.9	99.7	97.2	94.3
Fabricated metal products.....	100.1	102.2	107.2	102.7	102.4
Machinery, except electrical.....	108.4	108.6	119.4	116.1	113.7
Electric and electronic equipment.....	98.7	100.5	107.2	103.4	103.4
Transportation equipment.....	95.3	90.6	99.2	94.7	86.3
Instruments and related products.....	121.2	123.3	130.5	127.3	129.6
Miscellaneous manufacturing industries.....	96.5	103.4	101.8	95.8	102.6
<b>NONDURABLE GOODS</b> .....	97.4	100.5	99.6	97.4	99.9
Food and kindred products.....	96.2	102.0	94.4	96.9	103.1
Tobacco manufactures.....	66.7	78.4	71.3	65.3	75.7
Textile mill products.....	89.5	92.5	92.8	88.4	90.7
Apparel and other textile products.....	87.2	91.8	89.8	85.3	87.6
Paper and allied products.....	101.9	100.7	104.9	103.3	103.6
Printing and publishing.....	98.0	98.9	101.7	101.4	103.0
Chemicals and allied products.....	106.6	106.7	108.9	107.5	107.0
Petroleum and coal products.....	127.3	126.7	127.3	129.8	129.4
Rubber and misc. plastics products.....	142.8	146.1	150.9	144.9	143.9
Leather and leather products.....	66.0	70.5	67.3	58.3	63.7
<b>SERVICE-PRODUCING</b> .....	133.8	133.7	136.6	137.8	137.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	108.2	109.3	114.4	113.8	113.8
<b>WHOLESALE AND RETAIL TRADE</b> .....	130.2	130.1	131.1	131.8	131.6
<b>WHOLESALE TRADE</b> .....	127.6	127.6	132.4	132.1	131.6
<b>RETAIL TRADE</b> .....	131.2	131.1	130.6	131.7	131.7
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	141.3	141.1	145.0	147.0	147.0
<b>SERVICES</b> .....	148.3	147.8	152.0	154.4	154.4

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

p-preliminary.



**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

[1967=100]

Industry division and group	July 1978	Aug. 1978	June 1979	July 1979 <sup>P</sup>	Aug. 1979 <sup>P</sup>
	Payrolls				
<b>TOTAL PRIVATE</b> .....	260.9	262.7	288.6	289.8	290.5
<b>GOODS-PRODUCING</b> .....	236.9	240.4	266.2	263.8	265.0
<b>MINING</b> .....	361.2	361.2	409.1	401.0	409.7
<b>CONSTRUCTION</b> .....	284.8	290.9	315.7	326.3	333.7
<b>MANUFACTURING</b> .....	219.7	222.7	247.8	242.3	241.6
<b>DURABLE GOODS</b> .....	225.0	225.9	258.4	250.6	245.6
Lumber and wood products .....	281.9	282.0	310.4	304.6	314.6
Furniture and fixtures .....	210.1	220.5	228.4	219.5	228.7
Stone, clay, and glass products .....	259.1	260.9	283.4	279.0	281.8
Primary metal industries .....	231.9	236.0	265.9	262.1	256.6
Fabricated metal products .....	212.5	217.8	245.0	234.9	234.4
Machinery, except electrical .....	228.8	229.6	274.6	267.0	259.7
Electric and electronic equipment .....	207.5	212.8	242.2	234.4	236.2
Transportation equipment .....	217.4	205.4	246.1	235.7	211.1
Instruments and related products .....	242.2	247.8	279.8	274.7	280.8
Miscellaneous manufacturing industries .....	192.8	207.1	216.4	205.4	220.4
<b>NONDURABLE GOODS</b> .....	210.7	217.1	229.8	228.1	234.7
Food and kindred products .....	211.2	224.3	222.4	230.8	246.7
Tobacco manufactures .....	193.6	217.7	217.0	199.2	221.8
Textile mill products .....	187.8	196.8	205.1	200.1	210.9
Apparel and other textile products .....	168.3	177.7	186.0	177.5	182.5
Paper and allied products .....	234.9	231.0	257.9	257.8	260.3
Printing and publishing .....	193.3	196.4	212.7	212.6	218.1
Chemicals and allied products .....	241.8	242.6	263.9	262.8	264.0
Petroleum and coal products .....	305.2	304.0	330.6	339.8	338.8
Rubber and misc. plastics products .....	286.7	294.8	323.7	312.9	304.4
Leather and leather products .....	124.2	132.0	136.3	118.4	130.1
<b>SERVICE-PRODUCING</b> .....	281.6	281.9	307.8	312.2	312.5
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	252.0	257.9	283.2	285.3	286.9
<b>WHOLESALE AND RETAIL TRADE</b> .....	269.6	269.5	292.0	294.7	295.1
<b>WHOLESALE TRADE</b> .....	262.3	262.6	291.9	294.0	294.0
<b>RETAIL TRADE</b> .....	273.7	273.4	292.1	295.1	295.7
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	269.9	268.2	292.8	301.2	299.2
<b>SERVICES</b> .....	320.8	318.6	350.2	356.8	357.1

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

<sup>P</sup>=preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED HOURS**

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

Industry	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>	Aug. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	35.8	35.8	35.9	35.8	35.9	35.7	35.7	35.9	35.4	35.7	35.7	35.6	35.6
<b>MINING</b> .....	43.6	43.0	43.0	43.3	43.7	43.4	43.0	43.2	43.0	42.7	43.0	41.8	42.4
<b>CONSTRUCTION</b> .....	37.1	37.0	36.9	36.8	37.2	35.9	36.4	37.6	35.8	37.2	37.4	36.9	37.3
<b>MANUFACTURING</b> .....	40.3	40.4	40.5	40.7	40.7	40.7	40.7	40.8	39.2	40.2	40.1	40.2	40.0
<i>Overtime hours</i> .....	3.4	3.6	3.6	3.7	3.8	3.8	3.8	3.8	2.8	3.4	3.2	3.3	3.3
<b>DURABLE GOODS</b> .....	41.0	41.1	41.2	41.4	41.5	41.5	41.5	41.6	39.6	40.8	40.7	40.8	40.6
<i>Overtime hours</i> .....	3.6	3.8	3.9	4.0	4.1	4.2	4.2	4.1	2.8	3.6	3.5	3.5	3.4
Lumber and wood products .....	39.3	39.6	40.1	40.1	40.1	40.0	39.5	40.1	39.2	39.2	39.4	39.4	39.6
Furniture and fixtures .....	39.0	38.8	39.0	39.2	39.2	39.2	38.8	39.4	38.1	38.4	38.4	38.4	37.9
Stone, clay, and glass products .....	41.6	41.8	41.8	41.9	42.0	41.4	41.5	42.3	41.3	41.6	41.5	41.3	41.2
Primary metal industries .....	42.0	41.8	42.1	42.3	42.2	42.4	42.3	41.9	41.7	41.3	41.3	41.2	40.9
Fabricated metal products .....	40.9	40.9	40.8	41.1	41.4	41.2	41.4	41.5	39.1	40.7	40.7	40.8	40.1
Machinery, except electrical .....	41.8	41.9	42.0	42.2	42.5	42.2	42.6	42.6	40.5	42.0	42.0	42.0	41.4
Electric and electronic equipment .....	40.4	40.1	40.3	40.4	40.5	40.7	40.9	40.9	39.0	40.3	40.2	40.4	40.3
Transportation equipment .....	41.8	42.5	42.6	42.9	42.9	43.0	42.7	42.4	38.0	41.2	40.7	41.0	41.3
Instruments and related products .....	41.0	40.9	40.9	40.9	40.9	41.1	41.1	41.4	40.2	40.8	40.6	40.5	40.9
Miscellaneous manufacturing ind .....	39.0	39.0	38.8	38.8	38.8	39.1	39.0	39.2	37.7	38.5	38.8	39.1	38.7
<b>NONDURABLE GOODS</b> .....	39.3	39.4	39.3	39.6	39.5	39.6	39.4	39.6	38.7	39.2	39.2	39.3	39.2
<i>Overtime hours</i> .....	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.3	2.7	3.0	2.9	3.0	3.1
Food and kindred products .....	39.5	39.5	39.9	40.0	40.0	40.1	39.7	40.1	39.7	39.8	39.7	40.1	40.1
Tobacco manufactures .....	37.7	37.9	36.7	37.4	38.1	36.7	36.7	38.5	37.9	38.9	38.2	38.1	37.6
Textile mill products .....	40.4	40.4	40.3	40.4	40.4	40.9	40.0	40.6	38.9	40.0	40.0	40.0	40.0
Apparel and other textile products .....	35.6	35.7	35.2	35.7	35.6	35.3	35.5	35.5	34.3	35.2	35.2	35.5	35.3
Paper and allied products .....	42.7	42.7	42.6	43.1	42.7	42.9	42.9	42.9	42.3	42.5	42.5	42.5	42.2
Printing and publishing .....	37.4	37.8	37.7	37.9	37.6	37.7	37.7	37.8	37.2	37.3	37.4	37.4	37.5
Chemicals and allied products .....	41.9	41.8	41.9	42.1	41.8	42.0	41.9	42.0	41.8	41.9	41.7	41.7	41.7
Petroleum and coal products .....	44.3	43.8	43.9	44.2	43.7	43.4	43.4	44.2	44.1	43.7	43.2	43.6	43.5
Rubber and misc. plastics products .....	40.9	41.0	41.0	41.1	41.2	41.5	41.5	41.4	39.8	40.8	40.7	40.4	39.8
Leather and leather products .....	37.1	37.2	37.1	36.8	36.7	37.0	36.3	36.2	35.8	36.2	36.3	36.6	36.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	39.9	40.1	40.1	40.0	40.0	40.2	40.0	40.2	39.3	39.9	39.9	39.7	39.8
<b>WHOLESALE AND RETAIL TRADE</b> .....	32.8	32.8	32.9	32.8	32.9	32.4	32.5	32.7	32.8	32.6	32.6	32.6	32.5
<b>WHOLESALE TRADE</b> .....	38.8	39.0	38.9	38.8	38.9	38.7	38.7	39.1	38.8	38.9	38.8	38.8	38.7
<b>RETAIL TRADE</b> .....	30.9	30.9	31.0	30.9	31.0	30.5	30.6	30.7	30.9	30.6	30.6	30.6	30.5
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.5	36.5	36.6	36.3	36.3	36.3	36.3	36.3	36.5	36.1	36.2	36.3	36.2
<b>SERVICES</b> .....	32.7	32.8	32.8	32.7	32.5	32.6	32.6	32.8	32.7	32.7	32.7	32.8	32.8

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

<sup>P</sup> preliminary.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED**

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

[1967=100]

Industry division and group	1978					1979							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>P</sup>	Aug. <sup>P</sup>
<b>TOTAL PRIVATE</b> .....	120.4	120.8	121.6	122.4	122.9	122.6	123.2	124.7	122.4	123.9	124.1	124.1	123.7
<b>GOODS-PRODUCING</b> .....	105.4	105.5	106.5	108.0	109.1	108.7	109.1	111.0	106.3	109.3	109.2	108.9	107.7
<b>MINING</b> .....	145.7	144.4	145.2	148.0	149.1	149.2	149.3	150.0	149.1	148.3	149.5	145.8	150.8
<b>CONSTRUCTION</b> .....	122.8	122.6	123.8	124.3	126.5	120.6	122.4	131.5	124.6	132.3	133.8	133.2	132.4
<b>MANUFACTURING</b> .....	101.0	101.2	102.1	103.7	104.6	105.2	105.4	106.0	101.6	103.8	103.4	103.3	101.9
<b>DURABLE GOODS</b> .....	103.5	103.9	105.5	107.1	108.3	108.8	109.6	110.2	104.4	107.3	106.9	107.0	105.4
Lumber and wood products .....	110.7	111.6	113.9	115.3	116.2	116.6	115.5	116.9	112.5	112.2	112.4	111.5	111.7
Furniture and fixtures .....	106.4	106.2	107.5	108.6	109.4	110.0	108.6	109.7	105.3	105.1	104.0	104.5	101.6
Stone, clay, and glass products .....	109.8	110.1	110.8	112.0	113.3	111.5	112.2	115.1	111.8	112.6	112.6	110.8	110.3
Primary metal industries .....	95.3	95.5	96.9	99.0	99.2	99.7	100.5	99.6	99.0	97.3	97.5	97.0	94.7
Fabricated metal products .....	101.8	102.0	103.1	105.2	106.8	106.6	108.0	107.9	101.4	105.4	105.4	104.8	102.0
Machinery, except electrical .....	110.8	111.5	113.6	114.5	116.9	117.0	119.2	119.8	114.6	118.8	119.2	119.9	116.0
Electric and electronic equipment .....	101.1	100.1	101.4	102.6	103.4	105.1	106.4	107.8	102.6	105.8	106.0	106.5	104.0
Transportation equipment .....	96.1	97.7	100.4	102.8	103.8	104.7	105.0	104.8	92.3	99.6	96.3	97.5	98.9
Instruments and related products .....	123.9	123.9	124.5	125.7	126.9	128.8	130.0	131.3	127.8	129.0	129.3	129.6	130.3
Miscellaneous manufacturing ind .....	100.6	100.3	100.9	101.8	101.5	102.9	102.3	102.8	97.8	98.7	99.8	99.1	99.8
<b>NONDURABLE GOODS</b> .....	97.2	97.2	97.2	98.8	99.1	99.9	99.2	99.8	97.5	98.7	98.3	98.0	96.7
Food and kindred products .....	91.4	91.3	92.2	94.6	96.1	97.0	95.3	97.0	95.7	95.3	94.8	94.2	92.4
Tobacco manufactures .....	71.5	74.5	73.5	73.5	77.6	74.8	73.5	78.4	77.2	82.0	79.1	76.3	68.6
Textile mill products .....	91.2	91.8	91.6	92.4	92.2	93.6	91.3	92.3	87.9	90.6	90.3	90.3	89.5
Apparel and other textile products .....	90.1	90.1	88.7	90.0	89.8	89.6	89.2	88.8	85.9	88.0	87.2	88.2	86.1
Paper and allied products .....	99.2	99.0	98.2	100.5	100.7	101.7	102.5	103.5	102.2	102.9	102.9	103.2	101.9
Printing and publishing .....	98.3	97.8	98.5	100.3	100.1	101.1	101.7	102.6	100.8	101.5	101.8	102.4	102.5
Chemicals and allied products .....	106.0	106.0	106.2	107.2	107.0	107.8	107.6	107.5	107.3	107.6	107.7	107.2	106.4
Petroleum and coal products .....	123.2	122.7	123.0	124.7	124.2	123.3	124.2	127.4	126.2	124.2	122.8	123.0	126.3
Rubber and misc. plastics products .....	145.4	145.0	147.0	149.6	152.3	153.9	154.9	154.5	147.8	152.0	149.2	148.3	143.0
Leather and leather products .....	69.1	69.6	68.8	67.3	66.5	66.7	64.2	63.7	62.4	63.7	63.9	59.1	62.3
<b>SERVICE-PRODUCING</b> .....	130.8	131.4	132.0	132.3	132.5	132.3	132.9	134.2	133.7	134.0	134.6	134.7	134.8
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	107.7	108.2	109.9	110.2	110.3	111.2	111.2	112.2	107.5	111.5	112.9	112.0	112.2
<b>WHOLESALE AND RETAIL TRADE</b> .....	127.2	127.5	128.2	128.4	128.7	127.6	128.4	129.5	129.8	129.2	129.1	128.9	128.7
<b>WHOLESALE TRADE</b> .....	126.1	127.1	127.4	127.6	128.5	128.4	128.9	130.8	130.0	130.6	130.8	130.4	130.1
<b>RETAIL TRADE</b> .....	127.7	127.7	128.5	128.7	128.8	127.3	128.2	129.0	129.8	128.6	128.4	128.3	128.2
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	139.2	139.6	140.5	140.6	140.9	141.7	142.0	142.4	143.6	142.3	143.4	144.4	144.9
<b>SERVICES</b> .....	144.1	145.1	145.0	145.6	145.4	145.8	146.6	148.4	148.2	148.7	149.5	150.3	150.7

<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							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July <sup>p</sup>	Aug. <sup>p</sup>
<b>Hourly Earnings Index<sup>2</sup> (1967=100)</b>													
TOTAL PRIVATE (In current dollars) . . . . .	214.6	216.2	218.0	219.0	220.7	222.8	223.9	225.3	227.0	227.4	228.8	230.4	231.0
MINING . . . . .	244.5	247.1	249.7	249.8	249.1	251.7	253.3	256.0	264.2	262.6	264.7	268.8	269.0
CONSTRUCTION . . . . .	209.2	209.9	210.6	211.4	212.5	213.4	216.3	216.5	218.0	220.7	220.7	221.7	222.4
MANUFACTURING . . . . .	217.5	218.9	220.8	222.4	224.1	225.4	227.1	228.8	231.1	232.3	233.6	235.6	236.0
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	231.2	233.3	234.0	234.7	238.3	240.7	241.6	242.7	241.9	243.9	246.1	247.5	246.8
WHOLESALE AND RETAIL TRADE . . . . .	208.3	209.9	211.6	213.0	214.6	217.8	218.1	219.8	221.0	220.9	222.3	223.6	224.9
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	196.0	198.2	199.8	200.8	202.0	202.3	203.9	204.3	207.6	207.0	207.7	211.0	209.7
SERVICES . . . . .	212.9	214.8	217.5	217.8	218.9	221.7	222.2	223.5	225.3	224.0	225.5	226.9	227.7
TOTAL PRIVATE (In 1967 dollars) <sup>3</sup> . . . . .	108.7	108.7	108.7	108.5	108.6	108.6	107.8	107.3	107.0	106.1	105.6	105.4	-
<b>Average hourly earnings</b>													
TOTAL PRIVATE . . . . .	\$ 5.73	\$ 5.77	\$ 5.82	\$ 5.87	\$ 5.91	\$ 5.97	\$ 5.99	\$ 6.04	\$ 6.04	\$ 6.09	\$ 6.13	\$ 6.18	\$ 6.19
MINING . . . . .	7.88	7.88	7.99	8.03	8.03	8.12	8.18	8.25	8.53	8.45	8.50	8.58	8.64
CONSTRUCTION . . . . .	8.72	8.75	8.77	8.82	8.86	8.92	9.05	9.03	9.11	9.20	9.21	9.27	9.29
MANUFACTURING . . . . .	6.20	6.25	6.32	6.38	6.43	6.45	6.52	6.56	6.56	6.63	6.67	6.72	6.72
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	7.58	7.65	7.66	7.68	7.81	7.89	7.92	7.95	7.91	7.99	8.07	8.11	8.10
WHOLESALE AND RETAIL TRADE . . . . .	4.70	4.73	4.77	4.81	4.84	4.93	4.93	4.97	5.00	5.00	5.03	5.06	5.09
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	4.92	4.98	5.03	5.06	5.08	5.09	5.13	5.14	5.23	5.21	5.24	5.31	5.28
SERVICES . . . . .	5.02	5.05	5.10	5.11	5.14	5.21	5.22	5.25	5.29	5.27	5.30	5.35	5.38
<b>Average weekly earnings</b>													
TOTAL PRIVATE:													
Current dollars . . . . .	205.13	206.57	208.94	210.15	212.17	213.13	213.84	216.84	213.82	217.41	218.84	220.01	220.36
1967 dollars <sup>3</sup> . . . . .	103.97	103.86	104.16	104.14	104.41	103.86	102.96	103.31	100.76	101.40	101.03	100.60	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) <sup>3, 4</sup> . . . . .	92.13	91.94	92.04	91.95	92.06	92.37	91.53	91.68	89.58	89.96	89.56	89.12	-

<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		
	JUNE 1979	JULY 1979 <sup>p</sup>	AUGUST 1979 <sup>p</sup>	Aug. 1978 to Aug. 1979	June 1979 to July 1979	July 1979 to Aug. 1979
TOTAL . . . . .	167,538	167,724	167,390	2.6	0.1	-0.2
PRIVATE SECTOR . . . . .	136,556	136,581	136,435	2.9	0.0	-0.1
MINING . . . . .	2,086	2,059	2,113	4.7	-1.3	2.6
CONSTRUCTION . . . . .	8,947	8,851	8,922	7.4	-1.1	0.8
MANUFACTURING . . . . .	43,294	43,355	42,848	1.2	0.1	-1.2
DURABLE GOODS . . . . .	26,545	26,598	26,220	2.0	0.2	-1.4
NONDURABLE GOODS . . . . .	16,749	16,757	16,628	-0.2	0.0	-0.8
TRANSPORTATION AND PUBLIC UTILITIES . . . . .	10,519	10,502	10,495	4.3	-0.2	-0.1
WHOLESALE AND RETAIL TRADE . . . . .	33,994	33,909	33,967	1.6	-0.2	0.2
FINANCE, INSURANCE, AND REAL ESTATE . . . . .	9,218	9,291	9,311	4.2	0.8	0.2
SERVICES . . . . .	28,499	28,614	28,778	4.8	0.4	0.6
GOVERNMENT . . . . .	30,982	31,143	30,955	1.1	0.5	-0.6

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

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

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

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

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1976		1977				1978				1979
	1977	1978	IV	I	II	III	IV	I	II	III	IV	I	II
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons	118.8	120.1	117.2	118.5	118.0	119.7	119.3	119.1	119.8	120.6	120.8	120.0	119.3r
Output	133.8	140.7	127.8	131.0	132.8	135.2	136.1	136.9	140.3	141.8	144.0	144.4	143.3
Hours	112.6	117.2	109.1	110.6	112.5	112.9	114.0	114.9	117.1	117.5	119.2	120.4	120.1
Compensation per hour	213.5	233.1	203.7	207.7	211.1	215.9	219.5	225.7	230.3	235.6	240.7	247.3	252.9
Real compensation per hour	117.6	119.3	117.2	117.2	116.8	118.0	118.4	119.5	119.0	119.2	119.1	119.3	118.1
Unit labor costs	179.7	194.2	173.8	175.2	178.9	180.3	183.9	189.5	192.2	195.3	199.2	206.1	212.0r
Unit nonlabor payments	165.5	174.0	158.0	161.4	164.6	167.8	168.4	164.6	173.6	176.7	180.9	180.4	183.0r
Implicit price deflator	174.8	187.2	168.3	170.5	173.9	176.0	178.6	180.9	185.8	188.9	192.9	197.2	202.0r
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons	116.5	117.7	114.9	116.4	115.9	117.0	116.8	116.7	117.4	118.3	118.6	117.7	116.5r
Output	134.3	141.5	128.3	131.7	133.4	135.6	136.4	137.3	141.1	142.7	145.0	145.5	144.1r
Hours	115.3	120.2	111.6	113.2	115.1	115.9	116.8	117.6	120.2	120.6	122.2	123.5	123.7
Compensation per hour	209.8	229.3	199.9	204.1	207.5	211.8	215.8	222.2	226.5	231.5	236.7	242.8	247.4
Real compensation per hour	115.6	117.3	115.0	115.2	114.9	115.7	116.4	117.6	117.0	117.1	117.2	117.1	115.6r
Unit labor costs	180.1	194.7	173.9	175.4	179.0	181.0	184.8	190.3	192.9	195.7	199.2	206.2	212.5r
Unit nonlabor payments	163.8	169.6	157.0	159.1	163.2	167.0	165.8	160.9	168.9	172.7	175.7	173.9	176.9r
Implicit price deflator	174.5	186.1	168.1	169.8	173.6	176.2	178.3	180.2	184.7	187.8	191.4	195.1	200.3r
<b>MANUFACTURING:</b>													
Output per hour of all persons	127.5	128.9	124.6r	125.4r	127.4r	128.7r	128.3r	126.4r	128.0r	130.1r	130.8	130.1r	130.9r
Output	128.2	134.5	121.2r	124.2r	128.1r	129.9r	130.8r	130.1r	133.4r	135.9r	138.5	140.1r	139.7r
Hours	100.6	104.4	97.2	99.0	100.5	100.9	101.9	102.9	104.2	104.4	105.9	107.7	106.7r
Compensation per hour	212.4	231.1	201.4	206.4	209.9	214.6	218.4	224.4	228.1	233.1	238.4	244.3	250.2r
Real compensation per hour	117.0	118.3	115.9	116.5	116.2	117.3	117.8	118.8	117.8	117.9	118.0	117.8	116.8
Unit labor costs	166.6	179.4	161.6r	164.6r	164.7	166.7r	170.2r	177.5r	178.1r	179.1r	182.2r	187.9r	191.1r
<b>DURABLE GOODS</b>													
Output per hour of all persons	121.5	122.1	119.4r	119.5r	121.7r	122.6r	122.2r	119.6r	121.8	123.4r	123.7r	122.8r	123.7r
Output	122.5	129.6	115.4r	117.8r	122.2r	124.4r	125.5	124.4r	128.3r	131.3r	134.5r	136.2r	135.4r
Hours	100.8	106.1	96.6	98.6r	100.4	101.5	102.7	104.0	105.4	106.4	108.7	110.9	109.4
Compensation per hour	214.4	232.5	202.7	208.2	211.8	216.5	220.4	225.9	229.5	234.3	239.7	245.8	251.5r
Real compensation per hour	118.1	119.0	116.6	117.5	117.2	118.3	118.9	119.6	118.6	118.5	118.6	118.5	117.5r
Unit labor costs	176.4	190.4	169.7r	174.3r	174.0r	176.6r	180.4	188.8r	188.5r	189.9r	193.7r	200.2r	203.3r
<b>NONDURABLE GOODS</b>													
Output per hour of all persons	137.2	139.9	133.1	135.1r	136.6	138.7r	138.3r	137.6r	138.3r	141.3r	142.5r	142.2r	143.0r
Output	137.6	142.3	130.6	134.6r	137.6	138.8r	139.3r	139.3r	141.6r	143.2r	145.1r	146.3r	146.7r
Hours	100.3	101.7	98.1	99.6	100.7	100.1	100.7	101.2	102.4	101.4	101.8	102.9	102.6r
Compensation per hour	208.9	227.6	199.7	203.6	206.6	210.9	214.5	221.2	224.8	229.9	234.2	239.8	246.0r
Real compensation per hour	115.1	116.5	114.9	114.9	114.4	115.3	115.7	117.1	116.2	116.3	115.9	115.6	114.9r
Unit labor costs	152.3	162.7	150.0	150.7r	151.2r	152.1r	155.1r	160.7r	162.6r	162.7r	164.3r	168.7r	172.1r
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour	117.1r	119.1	115.6r	116.8r	116.6r	117.8r	117.3r	117.6	118.9r	119.6	120.1r	119.6	118.6p
Output	141.2	150.0	134.8	138.4	140.4	142.7	143.4	144.7	149.7	151.4	154.2	155.1	153.9p
Hours	120.6r	126.0r	116.6r	118.5r	120.4r	121.0r	122.3r	123.1r	125.9r	126.6r	128.3	129.7	129.8p
Compensation per hour	208.1r	227.0r	198.2r	202.5r	205.9r	210.2r	213.9r	220.3r	224.4r	229.1r	234.0r	240.4r	245.0p
Real compensation per hour	114.7r	116.2	114.1	114.3	114.0r	114.9r	115.4r	116.6r	115.9r	115.9	115.8r	115.9	114.4p
Total unit costs	181.8	193.3	176.3	177.7	180.5	182.4	186.3	190.8	191.6	194.0	196.8	202.3	208.2p
Unit labor costs	177.7	190.6	171.5	173.4	176.6	178.4	182.3	187.3	188.7	191.5	194.8	201.0	206.5p
Unit nonlabor costs	194.3	201.8	191.3	191.0	192.4	194.8	198.7	201.5	200.8	201.6	203.1	206.5	213.4p
Unit profits	122.7	127.2	107.0	114.1	123.3	130.9	122.2	107.1	129.2	132.7	138.7	130.3	128.1p
Implicit price deflator	173.0	183.5	166.0	168.3	172.0	174.7	176.8	178.3	182.3	184.9	188.2	191.6	196.3p

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					
	IV 1977 to	I 1978 to	II 1978 to	III 1978 to	IV 1978 to	I 1979 to	I 1977 to	II 1977 to	III 1977 to	IV 1977 to	I 1978 to	II 1978 to
	I 1978	II 1978	III 1978	IV 1978	I 1979	II 1979	I 1978	II 1978	III 1978	IV 1978	I 1979	II 1979
<b>PRIVATE BUSINESS SECTOR:</b>												
Output per hour of all persons	- 0.8	2.5	2.6	0.8	- 2.8	- 2.4r	0.5	1.6	0.7	1.3	0.7	- 0.5r
Output	2.4	10.5	4.2	6.4	1.2	- 3.1r	4.4	5.7	4.8	5.8	5.5	2.1r
Hours	3.2	7.9	1.5	5.6	4.1	- 0.7r	3.9	4.1	4.1	4.5	4.8	2.6
Compensation per hour	11.8	8.4	9.4	9.0	11.4	9.3	8.7	9.1	9.1	9.7	9.6	9.8
Real compensation per hour	3.7	- 1.6	0.5	- 0.1	0.4	- 3.8	2.0	1.9	1.0	0.6	- 0.2	- 0.8
Unit labor costs	12.7	5.8	6.6	8.2	14.6	12.0r	8.1	7.5	8.4	8.3	8.8	10.3r
Unit nonlabor payments	- 8.8	23.8	7.4	9.7	- 1.1	5.9r	2.0	5.5	5.3	7.4	9.6	5.4r
Implicit price deflator	5.3	11.2	6.9	8.7	9.3	10.0r	6.1	6.8	7.4	8.0	9.0	8.7r
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons	- 0.2	2.4	2.9	1.3	- 3.0	- 4.3r	0.3	1.3	1.1	1.6	0.9	- 0.8r
Output	2.7	11.5	4.5	6.8	1.2	- 3.8r	4.2	5.7	5.2	6.3	5.9	2.1r
Hours	2.9	8.9	1.6	5.4	4.3	0.5r	3.9	4.4	4.1	4.7	5.0	2.9
Compensation per hour	12.3	8.0	9.1	9.4	10.7	7.8	8.9	9.2	9.3	9.7	9.3	9.2
Real compensation per hour	4.1	- 1.9	0.3	0.2	- 0.3	- 5.1r	2.1	1.9	1.2	0.6	- 0.5	- 1.3
Unit labor costs	12.5	5.5	6.0	8.0	14.1	12.7r	8.5	7.8	8.1	8.0	8.3	10.1r
Unit nonlabor payments	-11.4	21.4	9.3	7.2	- 4.1	7.1r	1.1	3.5	3.4	6.0	8.1	4.8r
Implicit price deflator	4.4	10.2	7.0	7.8	8.1	11.0r	6.1	6.4	6.6	7.3	8.3	8.5r
<b>MANUFACTURING:</b>												
Output per hour of all persons	- 5.7r	5.1r	6.8r	2.0r	- 2.3r	2.8r	0.8r	0.5	1.1	1.9r	2.9r	2.3r
Output	- 2.2r	10.6r	7.6r	8.1r	4.6r	- 1.1r	4.7r	4.1r	4.6	5.9r	7.7r	4.7r
Hours	3.8	5.2	0.8	5.9	7.0	- 3.8r	3.9	3.6	3.5	3.9	4.7	2.4r
Compensation per hour	11.5	6.7	9.2	9.3	10.4	9.9r	8.7	8.7	8.6	9.1	8.9	9.7r
Real compensation per hour	3.4	- 3.2	0.3	0.1	- 0.5	- 3.3r	2.0	1.4	0.6	0.1	- 0.8	- 0.9
Unit labor costs	18.3r	1.4r	2.2r	7.1r	13.0r	6.9r	7.9r	8.1	7.4r	7.1r	5.9r	7.3r
<b>DURABLE GOODS</b>												
Output per hour of all persons	- 8.1r	7.3r	5.3r	- 1.3r	- 3.1r	3.1r	0.1r	0.0r	0.6r	1.3r	2.6	1.6r
Output	- 3.6r	13.3r	9.6r	10.0r	5.3r	- 2.4r	5.6	5.0r	5.6r	7.1	9.5	5.5r
Hours	5.0	5.5	4.0	8.6	8.6	- 5.3r	5.5	5.0	4.9	5.8	6.7	3.8
Compensation per hour	10.4	6.5	8.6	9.7	10.4	9.7r	8.5	8.3	8.2	8.8	8.8	9.6r
Real compensation per hour	2.4	- 3.3	- 0.2	0.4	- 0.5	- 3.4r	1.8	1.1	0.1	- 0.2	- 0.9	- 0.9r
Unit labor costs	20.2r	- 0.8r	3.1r	8.3r	13.9r	6.5r	8.4r	8.3r	7.5r	7.4r	6.0	7.9r
<b>NONDURABLE GOODS</b>												
Output per hour of all persons	- 2.1r	2.0r	9.1r	3.4r	- 1.0r	2.2r	1.8r	1.2r	1.9r	3.0r	3.3r	3.4r
Output	- 0.1r	6.8r	4.8r	5.3r	3.4r	0.9r	3.4r	2.9r	3.2r	4.1r	5.1r	3.6r
Hours	2.0	4.6	- 4.0	1.8	4.5	- 1.3r	1.6	1.7	1.3	1.1	1.7	0.2r
Compensation per hour	13.0	6.8	9.3	7.8	9.9	10.8r	8.6	8.8	9.0	9.2	8.4	9.4r
Real compensation per hour	4.8	- 3.0	0.4	- 1.3	- 1.0	- 2.5r	1.9	1.6	0.9	0.2	- 1.2	- 1.1r
Unit labor costs	15.4r	4.7r	0.1r	4.2r	11.0r	8.3r	6.7r	7.5r	7.0r	6.0r	4.9r	5.8r
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour	0.9r	4.6	2.3	1.8	- 1.8	- 3.3p	0.7r	2.0r	1.5r	2.4r	1.7	- 0.3p
Output	3.6	14.5	4.6	7.6	2.5	- 3.0p	4.6	6.7	6.1	7.5	7.2	2.8p
Hours	2.7r	9.5	2.2	5.6	4.4	0.3p	3.9	4.6	4.6	5.0	5.4	3.1p
Compensation per hour	12.4r	7.7	8.7	8.8r	11.3	7.9p	8.8r	9.0r	9.0r	9.4r	9.1	9.2p
Real compensation per hour	4.3r	- 2.3	- 0.1r	- 0.3	0.3	- 5.0p	2.0r	1.7r	0.9r	0.4r	- 0.6	- 1.3p
Total unit costs	9.9	1.8	5.1	5.9	11.7	12.2p	7.3	6.2	6.4	5.6	6.1	8.7p
Unit labor costs	11.4	2.9	6.2	6.9	13.4	11.6p	8.0	6.8	7.4	6.8	7.3	9.5p
Unit nonlabor costs	5.6	- 1.3	1.7	2.9	6.8	14.0p	5.5	4.3	3.5	2.2	2.5	6.3p
Unit profits	-40.8	111.3	11.4	19.5	-22.1	- 6.8p	- 6.1	4.7	1.4	13.6	21.7	- 0.9p
Implicit price deflator	3.6	9.3	5.7	7.3	7.6	10.1p	6.0	6.0	5.8	6.4	7.5	7.7p

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		
	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P
<b>ALABAMA</b> .....	\$220.05	\$242.43	\$240.57	40.6	41.3	40.5	\$5.42	\$5.87	\$5.94
Birmingham .....	262.00	292.32	293.87	40.0	41.7	41.1	6.55	7.01	7.15
Mobile .....	272.16	321.46	306.36	42.0	43.5	41.4	6.48	7.39	7.40
<b>ALASKA</b> .....	408.70	425.09	362.44	49.3	49.2	41.0	8.29	8.64	8.84
<b>ARIZONA</b> .....	247.04	264.77	275.95	40.3	40.3	40.7	6.13	6.57	6.78
Phoenix .....	249.90	262.91	270.80	40.7	40.2	40.6	6.14	6.54	6.67
Tucson .....	223.29	250.39	(*)	38.9	38.7	(*)	5.74	6.47	(*)
<b>ARKANSAS</b> .....	189.37	206.63	206.56	39.7	40.2	39.8	4.77	5.14	5.19
Fayetteville-Springdale .....	167.96	187.05	189.42	39.8	40.4	41.0	4.22	4.63	4.62
Fort Smith .....	197.61	220.46	209.86	38.9	40.6	39.3	5.08	5.43	5.34
Little Rock-North Little Rock .....	217.08	233.34	228.73	40.2	40.3	39.3	5.40	5.79	5.82
Pine Bluff .....	250.43	272.19	278.81	41.6	42.2	41.8	6.02	6.45	6.67
<b>CALIFORNIA</b> .....	256.86	278.20	282.58	39.7	39.8	39.8	6.47	6.99	7.10
Anaheim-Santa Ana-Garden Grove .....	238.95	252.80	252.45	40.5	39.5	39.2	5.90	6.40	6.44
Bakersfield .....	272.25	295.14	308.66	39.4	39.3	40.4	6.91	7.51	7.64
Fresno .....	230.29	244.92	235.21	38.9	39.0	37.1	5.92	6.28	6.34
Los Angeles-Long Beach .....	238.80	262.10	265.86	40.0	40.2	40.1	5.97	6.52	6.63
Modesto .....	254.92	262.64	275.41	39.4	39.2	39.4	6.47	6.70	6.99
Oxnard-Simi Valley-Ventura .....	222.22	242.42	246.72	39.4	39.1	39.1	5.64	6.20	6.31
Riverside-San Bernardino-Ontario .....	267.07	290.24	295.16	40.1	40.2	40.6	6.66	7.22	7.27
Sacramento .....	275.41	295.62	296.43	38.9	39.0	38.2	7.08	7.58	7.76
Salinas-Seaside-Monterey .....	243.46	266.95	268.60	38.4	39.2	39.5	6.34	6.81	6.80
San Diego .....	243.59	253.84	258.82	39.1	38.0	38.4	6.23	6.68	6.74
San Francisco-Oakland .....	311.22	331.63	336.48	39.9	39.2	39.4	7.80	8.46	8.54
San Jose .....	272.56	292.40	297.34	40.2	40.0	40.4	6.78	7.31	7.36
Santa Barbara-Santa Maria-Lompoc .....	219.41	241.39	243.84	37.7	37.6	38.1	5.82	6.42	6.40
Santa Rosa .....	238.75	247.13	253.65	38.2	37.5	38.2	6.25	6.59	6.64
Stockton .....	277.36	291.82	289.11	38.9	38.6	38.6	7.13	7.56	7.49
Vallejo-Fairfield-Napa .....	266.11	297.22	301.39	38.4	38.6	39.5	6.93	7.70	7.63
<b>COLORADO</b> .....	244.28	265.84	263.82	39.4	39.5	39.2	6.20	6.73	6.73
Denver-Boulder .....	240.30	267.24	267.41	39.2	39.3	39.5	6.13	6.80	6.77
<b>CONNECTICUT</b> .....	249.65	266.68	266.66	42.1	41.8	41.6	5.93	6.38	6.41
Bridgeport .....	262.24	286.23	287.31	44.0	43.5	43.4	5.96	6.58	6.62
Hartford .....	269.02	297.46	297.08	42.5	42.8	42.5	6.33	6.95	6.99
New Britain .....	257.79	283.37	277.72	42.4	43.0	42.4	6.08	6.59	6.55
New Haven-West Haven .....	253.57	273.97	271.17	41.5	41.7	41.4	6.11	6.57	6.55
Stamford .....	251.68	273.06	281.43	41.6	42.8	43.7	6.05	6.38	6.44
Waterbury .....	217.26	234.05	235.41	41.7	42.4	41.3	5.21	5.52	5.70
<b>DELAWARE</b> .....	265.83	288.75	280.50	40.4	40.9	39.9	6.58	7.06	7.03
Wilmington .....	302.88	325.22	320.78	40.6	40.5	40.4	7.46	8.03	7.94
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA .....	270.47	289.28	292.13	39.6	39.9	39.8	6.83	7.25	7.34
<b>FLORIDA</b> .....	205.73	221.27	219.37	40.9	40.9	40.4	5.03	5.41	5.43
Fort Lauderdale-Hollywood .....	190.28	209.82	211.04	40.4	40.9	41.3	4.71	5.13	5.11
Jacksonville .....	256.45	243.97	254.18	42.6	39.8	40.8	6.02	6.13	6.23
Miami .....	175.96	199.34	193.25	39.9	41.1	39.6	4.41	4.85	4.88
Orlando .....	230.41	223.31	229.70	42.2	40.9	40.8	5.46	5.46	5.63
Pensacola .....	266.64	303.97	297.11	42.8	44.9	43.5	6.23	6.77	6.83
Tampa-St. Petersburg .....	214.13	231.13	232.82	41.1	41.2	41.5	5.21	5.61	5.61
West Palm Beach-Boca Raton .....	236.53	228.00	235.46	43.4	37.5	38.1	5.45	6.08	6.18
<b>GEORGIA</b> .....	194.62	211.75	213.59	39.8	40.8	40.3	4.89	5.19	5.30
Atlanta .....	223.86	249.05	254.12	39.0	40.3	40.4	5.74	6.18	6.29
Savannah .....	270.09	299.28	309.40	42.4	43.5	44.2	6.37	6.88	7.00
<b>HAWAII</b> .....	218.12	236.22	231.87	39.3	37.2	38.2	5.55	6.35	6.07
Honolulu .....	208.35	226.71	226.20	38.3	36.1	37.7	5.44	6.28	6.00
<b>IDAHO</b> .....	273.83	278.95	278.51	39.4	39.4	38.1	6.95	7.08	7.31
Boise City .....	230.05	233.78	(*)	36.4	38.2	(*)	6.32	6.12	(*)

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		
	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P
<b>ILLINOIS</b> .....	\$267.11	\$299.57	\$298.12	39.3	41.0	40.5	\$6.79	\$7.31	\$7.36
Bloomington—Normal .....	237.25	265.17	264.33	39.9	41.6	40.6	5.95	6.38	6.52
Champaign—Urbana—Rantoul .....	254.01	249.91	258.52	37.7	37.4	38.5	6.73	6.68	6.72
Chicago SMSA .....	265.25	284.81	282.39	40.4	40.7	40.1	6.57	7.01	7.04
Davenport—Rock Island—Moline <sup>2</sup> .....	275.52	341.20	840.25	38.1	39.4	39.1	7.22	8.65	8.71
Decatur .....	279.08	332.15	331.07	38.7	41.5	40.8	7.21	8.01	8.12
Peoria .....	308.83	373.08	341.90	37.5	40.1	37.9	8.24	9.30	9.03
Rockford .....	273.01	298.62	289.26	41.1	41.8	40.6	6.64	7.14	7.13
Springfield .....	306.22	332.86	325.13	41.9	43.2	42.3	7.31	7.71	7.69
<b>INDIANA</b> .....	296.95	319.84	319.50	41.3	40.9	40.7	7.19	7.82	7.85
Gary—Hammond—East Chicago .....	393.05	423.61	(*)	42.4	41.9	(*)	9.27	10.11	(*)
Indianapolis .....	297.07	316.05	(*)	41.9	41.1	(*)	7.09	7.69	(*)
<b>IOWA</b> .....	280.19	311.08	320.62	39.8	40.4	41.0	7.04	7.70	7.82
Cedar Rapids .....	313.46	313.80	316.31	44.4	40.7	40.5	7.06	7.71	7.81
Des Moines .....	281.86	311.95	309.89	38.4	38.8	38.4	7.34	8.04	8.07
Dubuque .....	338.99	365.42	429.66	40.5	40.2	46.5	8.37	9.09	9.24
Sioux City .....	222.86	290.79	289.39	35.6	41.9	41.4	6.26	6.94	6.99
Waterloo—Cedar Falls .....	399.46	410.55	453.55	45.6	42.9	47.0	8.76	9.57	9.65
<b>KANSAS</b> .....	(*)	273.36	267.85	(*)	40.8	40.4	(*)	6.70	6.63
Topeka .....	(*)	247.96	275.65	(*)	37.4	40.3	(*)	6.63	6.84
Wichita .....	(*)	293.02	295.30	(*)	42.1	40.9	(*)	6.96	7.22
<b>KENTUCKY</b> .....	242.42	270.24	263.64	39.1	39.8	39.0	6.20	6.79	6.76
Louisville .....	279.40	306.99	305.96	39.8	40.5	40.1	7.02	7.58	7.63
<b>LOUISIANA</b> .....	266.74	282.49	280.40	41.1	41.0	40.0	6.49	6.89	7.01
Baton Rouge .....	349.71	366.32	379.32	44.1	42.3	43.7	7.93	8.66	8.68
New Orleans .....	246.14	266.63	255.61	38.4	39.5	37.7	6.41	6.75	6.78
Shreveport .....	235.41	255.10	251.77	39.9	40.3	39.9	5.90	6.33	6.31
<b>MAINE</b> .....	198.28	210.27	219.89	40.3	39.9	40.2	4.92	5.27	5.47
Lewiston—Auburn .....	162.93	177.63	177.93	38.7	38.7	38.1	4.21	4.59	4.67
Portland .....	199.00	207.24	204.09	39.8	39.4	38.8	5.00	5.26	5.26
<b>MARYLAND</b> .....	259.69	280.80	282.80	40.2	40.0	40.0	6.46	7.02	7.07
Baltimore .....	277.57	298.56	299.77	40.7	40.4	40.4	6.82	7.39	7.42
<b>MASSACHUSETTS</b> .....	220.80	238.60	238.60	40.0	40.1	40.1	5.52	5.95	5.96
Boston .....	240.77	260.90	270.60	39.6	40.2	41.0	6.08	6.49	6.60
Brockton .....	174.57	184.80	181.05	38.2	38.5	37.1	4.57	4.86	4.88
Fall River .....	160.08	179.30	189.50	36.8	37.2	37.9	4.35	4.82	5.00
Lawrence—Haverhill .....	216.37	237.55	232.66	39.7	40.4	39.5	5.45	5.88	5.89
Lowell .....	192.77	205.41	199.26	38.4	39.2	36.9	5.02	5.24	5.40
New Bedford .....	190.81	213.07	197.10	39.1	39.9	37.4	4.88	5.34	5.27
Springfield—Chicopee—Holyoke .....	227.64	240.37	238.98	42.0	41.3	40.3	5.42	5.82	5.93
Worcester .....	229.96	250.88	241.80	40.7	40.4	39.0	5.65	6.21	6.20
<b>MICHIGAN</b> .....	345.86	363.66	(*)	42.9	41.8	(*)	8.06	8.70	(*)
Ann Arbor .....	394.44	397.84	(*)	44.6	42.6	(*)	8.84	9.34	(*)
Battle Creek .....	334.32	355.78	(*)	40.9	41.5	(*)	8.17	8.57	(*)
Bay City .....	326.10	321.29	(*)	42.4	41.9	(*)	7.69	7.67	(*)
Detroit .....	372.20	398.44	(*)	42.9	42.6	(*)	8.68	9.35	(*)
Flint .....	412.36	420.98	(*)	46.1	43.2	(*)	8.95	9.75	(*)
Grand Rapids .....	269.89	297.60	(*)	41.3	40.8	(*)	6.54	7.29	(*)
Jackson .....	312.97	310.02	(*)	43.3	41.1	(*)	7.23	7.54	(*)
Kalamazoo—Portage .....	295.45	327.72	(*)	40.5	40.7	(*)	7.30	8.05	(*)
Lansing—East Lansing .....	352.84	381.13	(*)	41.7	41.4	(*)	8.46	9.21	(*)
Muskegon—Norton Shores—Muskegon Heights .....	293.36	307.17	(*)	40.8	40.3	(*)	7.19	7.62	(*)
Saginaw .....	419.53	410.99	(*)	45.5	42.3	(*)	9.22	9.72	(*)
<b>MINNESOTA</b> .....	253.68	274.72	274.82	39.7	39.7	39.6	6.39	6.92	6.94
Duluth—Superior .....	235.52	264.54	264.26	38.8	39.9	39.5	6.07	6.63	6.69
Minneapolis—St. Paul .....	272.68	292.80	292.07	40.1	40.0	39.9	6.80	7.32	7.32
<b>MISSISSIPPI</b> .....	180.58	199.08	193.36	39.6	40.3	39.3	4.56	4.94	4.92
Jackson .....	202.59	231.29	224.54	40.6	41.9	40.9	4.99	5.52	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		
	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P
<b>MISSOURI</b> .....	\$244.28	\$265.73	\$259.57	39.4	39.9	38.8	\$6.20	\$6.66	\$6.69
Kansas City .....	282.10	305.52	297.70	40.3	40.2	39.8	7.00	7.60	7.48
St. Joseph .....	221.34	252.10	249.94	38.9	40.4	39.8	5.69	6.24	6.28
St. Louis .....	285.42	304.56	295.23	40.2	40.5	39.0	7.10	7.52	7.57
Springfield .....	211.77	240.20	251.13	39.0	40.1	40.9	5.43	5.99	6.14
<b>MONTANA</b> .....	330.03	372.41	392.62	41.1	44.6	49.2	8.03	8.35	7.98
<b>NEBRASKA</b> .....	236.23	268.32	267.62	40.8	41.6	41.3	5.79	6.45	6.48
Lincoln .....	221.07	258.46	251.74	36.3	39.4	38.2	6.09	6.56	6.59
Omaha .....	258.93	281.26	282.90	41.1	41.0	41.0	6.30	6.86	6.90
<b>NEVADA</b> .....	260.91	261.80	254.79	39.0	38.5	38.2	6.69	6.80	6.67
Las Vegas .....	318.70	330.33	(*)	39.2	38.1	(*)	8.13	8.67	(*)
<b>NEW HAMPSHIRE</b> .....	193.65	213.59	214.92	39.2	40.3	39.8	4.94	5.30	5.40
Manchester .....	176.15	191.69	186.47	38.8	39.2	37.9	4.54	4.89	4.92
Nashua .....	217.08	237.95	236.57	40.5	41.6	41.0	5.36	5.72	5.77
<b>NEW JERSEY</b> .....	254.00	276.72	275.06	41.1	41.8	41.3	6.18	6.62	6.66
Atlantic City .....	171.20	190.85	185.88	38.3	38.4	37.4	4.47	4.97	4.97
Camden <sup>3</sup> .....	252.76	270.44	268.21	40.9	41.1	40.7	6.18	6.58	6.59
Hackensack <sup>4</sup> .....	247.08	263.70	256.85	42.6	43.3	41.9	5.80	6.09	6.13
Jersey City <sup>4</sup> .....	240.24	269.37	270.68	39.0	41.0	40.4	6.16	6.57	6.70
New Brunswick—Perth Amboy—Sayreville <sup>4</sup> .....	270.25	303.05	296.68	40.7	41.4	40.2	6.64	7.32	7.38
Newark <sup>4</sup> .....	255.62	277.86	277.97	41.7	42.1	41.8	6.13	6.60	6.65
Paterson—Clifton—Passaic <sup>4</sup> .....	241.38	259.99	253.53	40.5	41.4	40.5	5.96	6.28	6.26
Trenton .....	263.27	279.86	280.55	41.2	40.5	40.6	6.39	6.91	6.91
<b>NEW MEXICO</b> .....	188.16	207.38	214.19	38.4	39.5	39.3	4.90	5.25	5.45
Albuquerque .....	188.27	212.26	217.25	38.5	39.6	39.5	4.89	5.36	5.50
<b>NEW YORK</b> .....	239.95	258.59	257.94	39.4	39.6	39.2	6.09	6.53	6.58
Albany—Schenectady—Troy .....	269.69	275.37	278.59	40.8	40.2	40.2	6.61	6.85	6.93
Binghamton .....	227.26	240.85	239.72	40.8	41.1	40.7	5.57	5.86	5.89
Buffalo .....	318.89	346.42	341.88	41.2	40.9	40.7	7.74	8.47	8.40
Elmira .....	241.00	266.80	264.96	39.9	41.3	40.7	6.04	6.46	6.51
Monroe County <sup>5</sup> .....	304.88	341.94	333.32	41.2	41.7	41.1	7.40	8.30	8.11
Nassau—Suffolk <sup>6</sup> .....	222.09	243.18	240.30	39.1	39.8	39.2	5.68	6.11	6.13
New York—Northeastern New Jersey .....	228.14	247.78	(*)	39.2	39.9	(*)	5.82	6.21	(*)
New York and Nassau—Suffolk <sup>4</sup> .....	208.68	224.03	224.69	37.6	38.1	37.7	5.55	5.88	5.96
New York SMSA <sup>6</sup> .....	205.52	219.41	220.82	37.3	37.7	37.3	5.51	5.82	5.92
New York City <sup>7</sup> .....	201.30	216.17	215.65	36.8	37.4	36.8	5.47	5.78	5.86
Poughkeepsie .....	247.81	263.55	269.01	42.8	41.9	42.7	5.79	6.29	6.30
Rochester .....	287.94	324.53	314.61	40.9	41.5	40.7	7.04	7.82	7.73
Rockland County <sup>7</sup> .....	240.45	253.37	248.35	41.6	40.8	39.8	5.78	6.21	6.24
Syracuse .....	267.71	284.82	284.72	40.5	40.4	40.5	6.61	7.05	7.03
Utica—Rome .....	230.80	247.65	244.51	40.0	40.4	39.5	5.77	6.13	6.19
Westchester County <sup>7</sup> .....	243.90	246.40	262.03	41.2	40.0	41.2	5.92	6.16	6.36
<b>NORTH CAROLINA</b> .....	177.36	191.52	191.88	39.5	39.9	39.4	4.49	4.80	4.87
Asheville .....	176.88	188.87	193.92	40.2	40.1	40.4	4.40	4.71	4.80
Charlotte—Gastonia .....	181.80	196.87	196.66	40.4	41.1	40.3	4.50	4.79	4.88
Greensboro—Winston-Salem—High Point .....	191.78	209.08	207.37	39.3	39.9	39.2	4.88	5.24	5.29
Raleigh—Durham .....	201.70	215.17	223.85	40.1	39.7	40.7	5.03	5.42	5.50
<b>NORTH DAKOTA</b> .....	225.99	233.20	232.83	40.5	40.0	39.0	5.58	5.83	5.97
Fargo—Moorhead .....	241.13	255.91	257.91	39.4	39.8	38.9	6.12	6.43	6.63
<b>OHIO</b> .....	306.49	326.19	321.85	42.1	41.5	41.0	7.28	7.86	7.85
Akron .....	298.57	316.16	310.90	41.7	41.6	40.8	7.16	7.60	7.62
Canton .....	309.06	325.62	327.59	40.4	40.5	41.0	7.65	8.04	7.99
Cincinnati .....	286.02	302.22	304.51	42.0	41.4	41.6	6.81	7.30	7.32
Cleveland .....	323.88	341.65	334.36	43.3	42.6	41.9	7.48	8.02	7.98
Columbus .....	261.14	281.99	279.58	40.3	40.4	39.6	6.48	6.98	7.06
Dayton .....	315.74	349.25	332.90	42.9	42.8	41.2	7.36	8.16	8.08
Toledo .....	308.51	324.82	323.19	41.3	40.3	39.9	7.47	8.06	8.10
Youngstown—Warren .....	369.37	380.89	377.99	43.0	41.0	40.6	8.59	9.29	9.31

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		
	JULY 1978	JUNE 1979	JULY 1979 <sup>a</sup>	JULY 1978	JUNE 1979	JULY 1979 <sup>a</sup>	JULY 1978	JUNE 1979	JULY 1979 <sup>a</sup>
<b>OKLAHOMA</b> .....	\$234.77	\$258.73	\$262.91	40.2	40.3	40.2	\$5.84	\$6.42	\$6.54
Oklahoma City .....	228.85	259.97	259.67	39.8	41.2	40.7	5.75	6.31	6.38
Tulsa .....	251.65	280.38	285.82	40.2	40.4	40.2	6.26	6.94	7.11
<b>OREGON</b> .....	294.86	315.99	(*)	39.9	39.4	(*)	7.39	8.02	(*)
Eugene-Springfield .....	343.14	354.60	(*)	43.0	40.9	(*)	7.98	8.67	(*)
Jackson County .....	297.60	328.82	(*)	38.8	40.1	(*)	7.67	8.20	(*)
Portland .....	264.54	298.35	297.60	37.9	39.0	38.4	6.98	7.65	7.75
<b>PENNSYLVANIA</b> .....	254.06	278.29	277.60	40.2	40.1	40.0	6.32	6.94	6.94
Allentown-Bethlehem-Easton .....	246.65	270.27	279.41	38.6	37.8	38.7	6.39	7.15	7.22
Altoona .....	203.76	237.41	236.40	38.3	39.7	39.4	5.32	5.98	6.00
Delaware Valley .....	263.71	280.90	280.90	40.2	39.9	39.9	6.56	7.04	7.04
Erie .....	266.91	279.34	277.98	42.1	41.2	40.7	6.34	6.78	6.83
Harrisburg .....	223.44	263.11	259.31	39.2	41.5	40.9	5.70	6.34	6.34
Johnstown .....	262.28	295.86	303.51	39.5	39.5	40.2	6.64	7.49	7.55
Lancaster .....	221.92	247.45	244.62	39.7	40.9	40.5	5.59	6.05	6.04
Northeast Pennsylvania .....	184.02	200.14	199.13	37.1	37.2	37.5	4.96	5.38	5.31
Philadelphia SMSA .....	261.95	279.10	278.80	40.3	40.1	40.0	6.50	6.96	6.97
Pittsburgh .....	312.83	346.49	348.96	41.0	41.2	41.2	7.63	8.41	8.47
Reading .....	232.40	242.69	242.44	40.0	38.4	38.0	5.81	6.32	6.38
Scranton .....	194.66	204.19	206.59	38.7	38.6	39.5	5.03	5.29	5.23
Wilkes-Barre-Hazleton .....	176.27	196.20	192.96	35.9	36.0	36.0	4.85	5.45	5.36
Williamsport .....	218.51	239.90	238.99	39.3	39.2	38.3	5.56	6.12	6.24
York .....	234.06	260.18	258.75	41.5	42.1	41.6	5.64	6.18	6.22
<b>RHODE ISLAND</b> .....	182.60	197.96	199.17	39.1	39.2	38.9	4.67	5.05	5.12
Providence-Warwick-Pawtucket .....	184.86	197.68	198.90	39.5	39.3	39.0	4.68	5.03	5.10
<b>SOUTH CAROLINA</b> .....	190.22	203.09	207.26	40.3	40.7	40.8	4.72	4.99	5.08
Charleston-North Charleston .....	215.59	229.14	229.94	40.6	40.7	40.2	5.31	5.63	5.72
Columbia .....	182.75	203.03	204.97	38.8	39.5	39.8	4.71	5.14	5.15
Greenville-Spartanburg .....	185.14	203.27	205.82	39.9	40.9	41.0	4.64	4.97	5.02
<b>SOUTH DAKOTA</b> .....	211.15	232.13	231.57	41.0	41.6	41.5	5.15	5.58	5.58
Rapid City .....	199.84	179.68	174.52	40.7	35.3	35.4	4.91	5.09	4.93
Sioux Falls .....	259.95	320.17	314.40	42.2	46.2	46.1	6.16	6.93	6.82
<b>TENNESSEE</b> .....	202.98	218.40	218.95	39.8	40.0	40.1	5.10	5.46	5.46
Chattanooga .....	207.76	230.42	223.44	39.8	41.0	39.9	5.22	5.62	5.60
Knoxville .....	239.13	258.39	261.76	41.3	40.5	40.9	5.79	6.38	6.40
Memphis .....	242.35	258.22	256.86	40.8	40.6	39.7	5.94	6.36	6.47
Nashville-Davidson .....	218.20	239.72	239.20	39.6	40.7	40.0	5.51	5.89	5.98
<b>TEXAS</b> .....	244.08	262.89	262.99	41.3	41.4	40.9	5.91	6.35	6.43
Amarillo .....	232.83	261.81	266.20	41.8	44.3	44.0	5.57	5.91	6.05
Austin .....	193.12	204.85	205.18	41.8	41.3	41.2	4.62	4.96	4.98
Beaumont-Port Arthur-Orange .....	349.85	367.13	363.69	41.5	40.3	40.5	8.43	9.11	8.98
Corpus Christi .....	304.50	303.88	304.47	43.5	41.4	41.2	7.00	7.34	7.39
Dallas-Fort Worth .....	221.90	246.00	239.18	40.2	41.0	39.6	5.52	6.00	6.04
El Paso .....	181.72	189.20	178.00	38.5	40.6	36.4	4.72	4.66	4.89
Galveston-Texas City .....	384.48	403.42	405.17	43.2	42.6	41.9	8.90	9.47	9.67
Houston .....	303.15	328.32	329.41	43.0	43.2	43.4	7.05	7.60	7.59
Lubbock .....	175.11	206.98	204.60	39.0	42.5	41.5	4.49	4.87	4.93
San Antonio .....	173.05	188.00	188.81	38.2	40.0	39.5	4.53	4.70	4.78
Waco .....	217.88	229.20	229.45	41.9	40.0	40.9	5.20	5.73	5.61
Wichita Falls .....	209.21	233.60	231.77	39.4	40.0	38.5	5.31	5.84	6.02
<b>UTAH</b> .....	226.01	240.40	242.89	38.9	38.9	38.8	5.81	6.18	6.26
Salt Lake City-Ogden .....	217.85	226.79	224.44	39.9	38.9	38.3	5.46	5.83	5.86
<b>VERMONT</b> .....	206.85	219.64	219.14	40.4	40.3	39.7	5.12	5.45	5.52
Burlington .....	236.88	241.26	242.49	42.3	41.1	41.1	5.60	5.87	5.90
Springfield .....	238.96	264.39	245.74	41.2	42.1	39.7	5.80	6.28	6.19
<b>VIRGINIA</b> .....	202.47	222.89	223.11	39.7	40.6	40.2	5.10	5.49	5.55
Bristol .....	191.67	203.99	202.39	38.8	38.2	37.9	4.94	5.34	5.34
Lynchburg .....	208.28	218.83	219.85	40.6	40.6	39.9	5.13	5.39	5.51
Norfolk-Virginia Beach-Portsmouth .....	231.44	266.70	265.44	41.7	42.2	42.2	5.55	6.32	6.29
Northern Virginia .....	248.05	243.04	246.09	41.9	39.2	39.0	5.92	6.20	6.31
Petersburg-Colonial Heights-Hopewell .....	253.76	280.00	266.95	39.1	40.0	38.3	6.49	7.00	6.97

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P	JULY 1978	JUNE 1979	JULY 1979P
<b>VIRGINIA—Continued</b>									
Richmond .....	\$250.90	\$268.40	\$264.77	39.7	40.3	39.4	\$6.32	\$6.66	\$6.72
Roanoke .....	186.40	199.87	199.17	40.0	39.5	38.9	4.66	5.06	5.12
<b>WASHINGTON</b> .....	302.97	330.22	(*)	39.5	39.5	(*)	7.67	8.36	(*)
Seattle—Everett .....	304.92	325.36	(*)	39.6	39.2	(*)	7.70	8.30	(*)
Spokane .....	253.99	287.25	(*)	38.6	38.3	(*)	6.58	7.50	(*)
Tacoma .....	293.76	326.63	(*)	38.3	39.4	(*)	7.67	8.29	(*)
<b>WEST VIRGINIA</b> .....	260.31	291.00	287.96	39.5	39.7	39.5	6.59	7.33	7.29
Charleston .....	314.79	331.08	321.57	43.3	42.5	41.6	7.27	7.79	7.73
Huntington—Ashland .....	290.54	319.60	316.40	39.8	39.9	39.5	7.30	8.01	8.01
Parkersburg—Marietta .....	286.56	315.33	311.41	41.7	42.1	41.8	6.92	7.49	7.45
Wheeling .....	279.86	304.21	310.59	40.5	40.4	40.6	6.91	7.53	7.65
<b>WISCONSIN</b> .....	269.30	293.54	292.68	40.5	40.9	40.7	6.65	7.18	7.19
Appleton—Oshkosh .....	274.11	294.33	296.63	42.1	42.1	42.1	6.51	7.00	7.05
Eau Claire .....	267.17	256.11	301.95	41.1	40.6	40.7	6.51	6.31	7.41
Green Bay .....	276.41	303.13	301.67	41.5	41.7	41.3	6.66	7.27	7.31
Kenosha .....	306.30	358.24	328.93	40.5	41.8	40.0	7.57	8.57	8.23
La Crosse .....	211.92	231.34	230.33	39.2	39.6	39.1	5.40	5.84	5.89
Madison .....	276.23	284.75	299.97	39.7	39.5	40.2	6.95	7.20	7.45
Milwaukee .....	295.70	320.95	321.00	40.4	40.9	40.6	7.32	7.85	7.90
Racine .....	285.09	315.47	311.26	39.9	41.5	40.6	7.15	7.61	7.67
<b>WYOMING</b> .....	243.18	248.63	251.10	38.6	37.5	37.2	6.30	6.63	6.75
Casper .....	282.03	317.20	317.82	38.9	39.7	38.2	7.25	7.99	8.32
Cheyenne .....	305.69	(*)	(*)	39.7	(*)	(*)	7.70	(*)	(*)

<sup>1</sup> Revised to 1978 benchmark; not strictly comparable with previously published data.

<sup>2</sup> Data for 1978 are not strictly comparable with earlier years.

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

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

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

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

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

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

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

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

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

p=preliminary.

\* Not available.

SOURCE—Cooperating State agencies listed on inside back cover.

# ESTABLISHMENT DATA LABOR TURNOVER

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

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.2	4.6	3.9	3.1	2.3
1978	4.1	3.8	3.2	3.7	4.0	4.7	4.8	4.3	5.3	4.8	4.3	3.3	2.3
1979	-	4.0	3.4	3.8	3.8	4.7	4.7	P4.3					
<b>New hires</b>													
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	2.9	2.2	1.6
1978	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.1	3.9	3.5	2.6	1.7
1979	-	2.8	2.5	2.8	2.9	3.6	3.8	P3.1					
<b>Recalls</b>													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.9	1.1	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	.9	.9	.8	.6	.6	.5
1978	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.8	.5	.5	.5
1979	-	.9	.6	.7	.7	.8	.7	P.9					
<b>Total separations</b>													
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	4.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.2	5.1	4.8	3.8	3.4	3.3
1978	3.8	3.6	3.1	3.5	3.6	3.6	3.8	4.1	5.2	4.8	4.0	3.5	3.4
1979	-	3.8	3.2	3.6	3.6	3.7	3.9	P4.2					
<b>Quits</b>													
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.4	3.0	2.3	1.7	1.3
1979	-	1.8	1.6	1.9	1.9	2.1	2.1	P2.0					
<b>Layoffs</b>													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	1.1	1.7	1.4	1.0	.9	.8	.8	1.4	1.0	1.1	1.1	1.1	1.4
1978	.9	1.2	.9	.9	.7	.7	.7	1.0	.7	.8	.9	1.0	1.3
1979	-	1.1	.8	.8	.8	.7	.9	P1.3					

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	
		June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>
-	<b>MANUFACTURING</b> .....	4.7	4.3	3.8	3.1	0.7	0.9	3.9	4.2	2.1	2.0	0.9	1.3
24, 25, 32-39	<b>DURABLE GOODS</b> .....	4.3	3.8	3.5	2.8	.5	.7	3.5	3.9	1.8	1.7	.7	1.2
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	5.4	5.0	4.2	3.6	.9	1.2	4.5	4.7	2.6	2.5	1.1	1.4
	<b>DURABLE GOODS</b>												
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	7.3	5.6	6.0	4.8	1.1	.6	5.7	5.2	3.6	3.5	.8	.6
242	Sawmills and planing mills .....	6.3	-	5.2	-	.9	-	4.8	-	3.0	-	.7	-
2421	Sawmills and planing mills, general .....	6.1	-	5.0	-	.9	-	4.2	-	2.6	-	.6	-
243	Millwork, plywood, and structural members .....	5.9	-	5.2	-	.5	-	5.9	-	3.3	-	1.2	-
2431	Millwork .....	4.9	-	4.4	-	.5	-	5.1	-	2.8	-	1.5	-
244	Wooden containers .....	8.3	-	7.7	-	.5	-	8.8	-	6.9	-	1.0	-
245	Wood buildings and mobile homes .....	10.6	-	9.5	-	1.0	-	8.3	-	5.7	-	.5	-
2451	Mobile homes .....	11.1	-	10.3	-	.7	-	8.3	-	6.6	-	.2	-
249	Miscellaneous wood products .....	5.8	-	4.9	-	.5	-	5.1	-	3.3	-	.5	-
25	<b>FURNITURE AND FIXTURES</b> .....	5.0	5.8	4.3	4.3	.5	1.4	4.8	5.9	3.0	3.2	.6	1.5
251	Household furniture .....	4.8	-	4.3	-	.3	-	5.0	-	3.3	-	.4	-
2511	Wood household furniture .....	5.3	-	4.9	-	.2	-	5.3	-	3.8	-	.2	-
2512	Upholstered household furniture .....	3.6	-	3.1	-	.2	-	4.5	-	2.9	-	.5	-
2515	Mattresses and bedsprings .....	6.4	-	5.7	-	.6	-	5.5	-	3.5	-	.6	-
252	Office furniture .....	5.2	-	3.2	-	1.9	-	3.6	-	2.0	-	.8	-
254	Partitions and fixtures .....	6.8	-	6.2	-	.4	-	4.9	-	3.0	-	.7	-
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	5.2	4.6	4.2	3.6	.7	.8	3.7	4.0	2.1	2.2	.6	.8
322	Glass and glassware, pressed or blown .....	3.6	-	2.4	-	.8	-	3.0	-	1.1	-	1.0	-
3221	Glass containers .....	3.4	-	2.2	-	.9	-	2.8	-	1.2	-	.9	-
3229	Pressed and blown glass, nec .....	3.7	-	2.7	-	.6	-	3.2	-	.9	-	1.2	-
323	Products of purchased glass .....	5.5	-	4.7	-	.8	-	4.0	-	2.5	-	.4	-
324	Cement, hydraulic .....	3.1	-	2.8	-	.2	-	1.0	-	.4	-	( <sup>1</sup> )	-
325	Structural clay products .....	7.3	-	6.6	-	.5	-	5.5	-	3.9	-	.5	-
326	Pottery and related products .....	4.2	-	3.6	-	.5	-	3.7	-	1.7	-	1.1	-
327	Concrete, gypsum, and plaster products .....	7.1	-	5.9	-	1.0	-	4.4	-	3.0	-	.6	-
329	Misc. nonmetallic mineral products .....	4.0	-	3.4	-	.4	-	3.1	-	1.8	-	.4	-
33	<b>PRIMARY METAL INDUSTRIES</b> .....	3.1	2.6	2.4	1.8	.4	.5	2.3	3.1	1.0	1.0	.4	1.1
331	Blast furnace and basic steel products .....	2.7	-	1.9	-	.5	-	1.5	-	.4	-	.3	-
3312	Blast furnaces and steel mills .....	2.5	-	1.6	-	.6	-	1.4	-	.3	-	.2	-
332	Iron and steel foundries .....	3.3	-	2.8	-	.3	-	3.4	-	1.7	-	.7	-
3321	Gray iron foundries .....	3.1	-	2.6	-	.2	-	3.4	-	1.7	-	.8	-
3325	Steel foundries, nec .....	3.8	-	3.2	-	.4	-	3.4	-	1.6	-	.4	-
333	Primary nonferrous metals .....	2.8	-	2.1	-	.2	-	1.2	-	.5	-	.1	-
335	Nonferrous rolling and drawing .....	2.5	-	2.2	-	.2	-	1.8	-	.9	-	.2	-
3351	Copper rolling and drawing .....	2.4	-	2.2	-	.1	-	1.8	-	1.0	-	.1	-
3353	Aluminum sheet, plate, and foil .....	1.8	-	1.4	-	.2	-	.9	-	.3	-	( <sup>1</sup> )	-
3357	Nonferrous wire drawing and insulating .....	2.3	-	2.0	-	.1	-	1.9	-	.9	-	.2	-
336	Nonferrous foundries .....	5.1	-	4.2	-	.5	-	4.4	-	2.4	-	.8	-
3361	Aluminum foundries .....	5.2	-	4.5	-	.3	-	3.8	-	2.4	-	.4	-
34	<b>FABRICATED METAL PRODUCTS</b> .....	4.7	4.2	3.9	3.1	.6	.9	3.9	4.7	2.2	2.1	.8	1.7
341	Metal cans and shipping containers .....	4.1	-	2.4	-	1.3	-	3.3	-	1.1	-	1.2	-
3411	Metal cans .....	3.9	-	1.8	-	1.5	-	3.1	-	.8	-	1.4	-
342	Cutlery, hand tools, and hardware .....	4.0	-	3.3	-	.5	-	3.3	-	1.9	-	.5	-
3423, 5	Hand and edge tools, and hand saws and blades .....	3.9	-	3.4	-	.4	-	2.6	-	1.6	-	.3	-
3429	Hardware, nec .....	4.2	-	3.5	-	.6	-	3.6	-	2.1	-	.7	-
343	Plumbing and heating, except electric .....	4.5	-	3.9	-	.5	-	3.9	-	2.1	-	.7	-
344	Fabricated structural metal products .....	5.4	-	4.6	-	.6	-	4.3	-	2.6	-	.6	-
3441	Fabricated structural metal .....	6.0	-	5.2	-	.7	-	4.7	-	2.7	-	.8	-
3442	Metal doors, sash, and trim .....	7.7	-	6.7	-	.9	-	6.0	-	4.0	-	.5	-
3443	Fabricated plate work (boiler shops) .....	3.3	-	2.8	-	.3	-	2.7	-	1.5	-	.4	-
3444	Sheet metal work .....	5.5	-	4.8	-	.6	-	4.4	-	2.7	-	.7	-
346	Screw machine products, bolts, etc. ....	4.6	-	4.1	-	.4	-	3.9	-	2.4	-	.4	-
3451	Screw machine products .....	5.4	-	4.8	-	.4	-	4.7	-	3.1	-	.5	-
3452	Bolts, nuts, rivets, and washers .....	3.8	-	3.4	-	.3	-	3.1	-	1.8	-	.3	-
346	Metal forgings and stampings .....	4.0	-	2.9	-	.6	-	3.7	-	1.5	-	1.3	-
3462	Iron and steel forgings .....	3.1	-	2.7	-	.3	-	2.4	-	1.2	-	.3	-
3465	Automotive stampings .....	3.1	-	1.3	-	.9	-	4.0	-	.8	-	2.5	-
3469	Metal stampings, nec .....	5.3	-	4.5	-	.5	-	4.3	-	2.4	-	.8	-
347	Metal services, nec .....	7.7	-	6.7	-	.7	-	6.2	-	3.6	-	.7	-
348	Ordnance and accessories, nec .....	2.5	-	1.8	-	.5	-	2.2	-	.9	-	.8	-
349	Misc. fabricated metal products .....	4.7	-	3.8	-	.7	-	3.7	-	2.2	-	.6	-
3494	Valves and pipe fittings .....	3.8	-	3.0	-	.5	-	2.8	-	1.6	-	.4	-
3498	Misc. fabricated wire products .....	6.6	-	6.0	-	.4	-	5.4	-	3.6	-	.7	-

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	
		June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>	June 1979	July 1979 <sup>P</sup>
<b>PAPER AND ALLIED PRODUCTS—Continued</b>													
263	Paperboard mills	3.2	-	2.5	-	0.3	-	1.6	-	0.8	-	0.3	-
264	Misc. converted paper products	4.7	-	4.0	-	.5	-	3.4	-	1.9	-	.5	-
265	Paperboard containers and boxes	4.2	-	3.4	-	.6	-	3.8	-	1.9	-	1.0	-
2651	Folding paperboard boxes	4.3	-	2.9	-	1.2	-	3.2	-	1.6	-	.9	-
2653	Corrugated and solid fiber boxes	4.1	-	3.4	-	.5	-	3.4	-	1.9	-	.7	-
27	<b>PRINTING AND PUBLISHING</b>												
271	Newspapers	4.3	3.4	3.7	2.8	.5	0.4	3.4	3.3	2.3	2.1	.5	0.6
272	Periodicals	4.6	-	4.2	-	.2	-	3.6	-	2.9	-	.2	-
273	Books	4.1	-	3.8	-	.3	-	2.3	-	1.6	-	.2	-
274	Miscellaneous publishing	4.0	-	3.0	-	.9	-	3.8	-	2.0	-	1.3	-
275	Commercial printing	5.1	-	3.2	-	.8	-	3.7	-	2.4	-	.8	-
2751	Commercial printing, letterpress	3.9	-	3.2	-	.6	-	3.4	-	1.9	-	.8	-
2752	Commercial printing, lithographic	3.4	-	2.6	-	.7	-	3.8	-	2.0	-	1.1	-
278	Blankbooks and bookbinding	4.4	-	3.6	-	.6	-	3.1	-	1.8	-	.6	-
278	Blankbooks and bookbinding	6.0	-	5.1	-	.7	-	4.5	-	3.0	-	.6	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>												
281	Industrial inorganic chemicals	2.8	1.9	2.3	1.5	.3	.2	1.8	1.6	.9	.8	.3	.3
2819	Industrial inorganic chemicals, nec	2.5	-	2.0	-	.3	-	1.1	-	.6	-	.1	-
282	Plastics materials and synthetics	2.4	-	1.9	-	.3	-	1.1	-	.6	-	.1	-
2821	Plastics materials and resins	2.4	-	2.1	-	.1	-	1.2	-	.7	-	.1	-
2824	Organic fibers, noncellulosic	3.2	-	2.7	-	.1	-	1.6	-	.9	-	( <sup>1</sup> )	-
283	Drugs	1.5	-	1.3	-	.1	-	.7	-	.4	-	( <sup>1</sup> )	-
2834	Pharmaceutical preparations	2.6	-	2.1	-	.2	-	1.9	-	1.0	-	.4	-
284	Soap, cleaners, and toilet goods	2.7	-	2.2	-	.2	-	2.1	-	1.1	-	.4	-
2841	Soap and other detergents	4.2	-	3.3	-	.7	-	2.3	-	1.2	-	.4	-
2844	Toilet preparations	3.3	-	1.9	-	1.4	-	1.8	-	.7	-	.6	-
285	Paints and allied products	4.5	-	3.5	-	.5	-	2.3	-	1.4	-	.4	-
286	Industrial organic chemicals	4.2	-	3.4	-	.4	-	2.7	-	1.7	-	.2	-
287	Agricultural chemicals	2.1	-	1.8	-	.1	-	1.1	-	.6	-	( <sup>1</sup> )	-
289	Miscellaneous chemical products	3.2	-	2.6	-	.5	-	4.3	-	1.3	-	2.1	-
289	Miscellaneous chemical products	2.8	-	2.3	-	.4	-	2.0	-	1.1	-	.5	-
29	<b>PETROLEUM AND COAL PRODUCTS</b>												
291	Petroleum refining	3.1	2.6	2.7	2.3	.3	.2	2.0	1.9	1.0	.9	.5	.4
295	Paving and roofing materials	2.4	-	2.2	-	.1	-	1.5	-	.6	-	.5	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>												
301	Tires and inner tubes	5.7	-	4.5	-	1.1	-	4.3	-	2.4	-	.8	-
302	Rubber and plastics footwear	6.0	4.8	5.1	3.7	.5	.8	5.3	5.5	3.1	2.9	.9	1.3
303,4	Reclaimed rubber, and rubber and plastics hose and belting	2.0	-	1.3	-	.2	-	1.8	-	.6	-	.4	-
306	Fabricated rubber products, nec	9.5	-	8.3	-	.4	-	7.9	-	5.9	-	.2	-
307	Miscellaneous plastics products	4.5	-	3.9	-	.3	-	4.1	-	2.3	-	1.0	-
31	<b>LEATHER AND LEATHER PRODUCTS</b>												
311	Leather tanning and finishing	4.8	-	3.8	-	.5	-	4.7	-	2.5	-	1.0	-
314	Footwear, except rubber	7.2	-	6.3	-	.6	-	7.1	-	4.7	-	1.1	-
3143	Men's footwear, except athletic	6.4	-	5.5	-	.6	-	7.1	-	4.7	-	1.0	-
3144	Women's footwear, except athletic	8.0	-	6.3	-	1.2	-	8.4	-	4.8	-	2.1	-
<b>NONMANUFACTURING:</b>													
-	<b>MINING</b>												
10	<b>METAL MINING</b>												
101	Iron ores	5.6	4.5	4.5	3.4	.8	.7	3.8	4.3	2.6	2.6	.5	.7
102	Copper ores	4.4	3.4	3.7	2.2	.3	.4	2.2	3.0	1.3	1.2	( <sup>1</sup> )	.5
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b>												
13	<b>OIL AND GAS EXTRACTION</b>												
131,2	Crude petroleum, natural gas, and natural gas liquids	3.3	-	2.1	-	( <sup>1</sup> )	-	1.6	-	.2	-	( <sup>1</sup> )	-
138	Oil and gas field services	3.4	-	2.9	-	.3	-	1.4	-	.8	-	.1	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b>												
142	Crushed and broken stone	1.9	1.4	1.2	.7	.4	.5	1.8	1.4	.6	.5	.7	.5
144	Sand and gravel	8.0	6.6	6.4	5.3	1.1	.9	5.5	6.5	4.1	4.4	.4	.9
481	<b>COMMUNICATION:</b>												
481	Telephone communication	4.0	-	8.7	-	1.6	-	8.4	-	6.4	-	.6	-
14	Crushed and broken stone	5.2	3.7	4.4	3.2	.6	.3	3.0	2.7	2.0	1.9	.4	.3
142	Crushed and broken stone	5.2	-	4.4	-	.7	-	2.8	-	1.9	-	.3	-
144	Sand and gravel	6.7	-	5.3	-	1.2	-	4.0	-	2.6	-	.8	-
481	Telephone communication	2.3	-	2.2	-	( <sup>1</sup> )	-	1.0	-	.5	-	.1	-

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

p-preliminary.



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

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

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>												
1969	4.9	4.8	4.9	4.9	4.7	5.0	4.7	4.5	4.7	4.6	4.5	4.6
1970	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974	4.7	4.6	4.5	4.7	4.5	4.3	4.2	4.1	4.0	3.8	3.3	3.1
1975	3.0	3.1	3.2	3.8	3.6	3.8	4.0	4.0	3.8	3.9	3.9	3.9
1976	4.2	4.2	4.2	4.1	3.9	3.8	3.8	3.7	3.7	3.8	3.8	4.0
1977	4.0	4.4	4.1	3.9	3.9	3.9	3.9	3.7	3.9	4.0	4.1	4.4
1978	4.2	4.0	3.9	4.2	4.0	3.9	3.8	3.8	4.1	4.4	4.5	4.4
1979	4.4	4.3	4.1	3.9	4.1	3.8	P3.7					
<b>New hires</b>												
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.7	3.5	3.7	3.6	3.5	3.5
1970	3.3	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974	3.8	3.7	3.6	3.5	3.5	3.3	3.2	3.1	3.0	2.7	2.3	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.3	2.4	2.5	2.5
1976	2.6	2.8	2.9	2.8	2.7	2.7	2.6	2.5	2.4	2.5	2.5	2.6
1977	2.7	2.8	2.9	2.8	3.0	2.8	2.7	2.7	2.7	2.8	2.9	3.3
1978	3.1	3.0	3.0	3.1	3.0	3.0	2.9	2.8	3.1	3.4	3.5	3.5
1979	3.4	3.4	3.2	3.0	3.1	2.9	P2.7					
<b>Total separations</b>												
1969	4.6	4.9	4.9	4.8	4.8	5.0	4.8	4.9	4.9	5.0	4.9	4.9
1970	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972	4.2	4.1	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974	5.1	5.0	4.9	4.7	4.5	4.5	4.6	4.7	4.5	4.8	5.1	4.9
1975	5.2	5.0	4.6	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.8	3.5
1976	3.6	3.6	3.9	3.9	3.8	3.9	3.9	3.9	3.9	3.9	3.7	3.7
1977	4.0	4.1	3.7	3.7	3.8	3.8	3.9	3.9	3.8	3.7	3.9	3.9
1978	3.8	3.8	3.8	4.0	3.9	4.0	3.9	3.7	3.7	3.9	3.9	4.1
1979	4.0	4.0	4.0	4.0	3.9	4.1	P3.9					
<b>Quits</b>												
1969	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6
1970	2.4	2.5	2.3	2.3	2.1	2.2	2.1	2.0	2.0	1.9	1.8	1.9
1971	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	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	2.3	2.3	2.0	1.8	1.7
1975	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976	1.6	1.7	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7
1977	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	2.0	2.0
1978	2.0	2.0	2.0	2.2	2.1	2.1	2.0	1.9	2.0	2.3	2.2	2.2
1979	2.3	2.3	2.2	2.1	2.0	2.0	P1.9					
<b>Layoffs</b>												
1969	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.5	1.9	1.9	2.2	2.0	1.7
1971	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974	1.4	1.3	1.2	1.1	1.0	1.1	1.2	1.4	1.3	1.8	2.4	2.5
1975	2.9	2.9	2.7	2.6	2.5	2.2	1.7	1.7	1.7	1.5	1.5	1.3
1976	1.2	1.0	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.3	1.2
1977	1.3	1.4	1.1	1.1	1.1	1.2	1.2	1.3	1.1	1.1	1.0	1.0
1978	.9	.9	1.0	.9	1.0	1.0	.9	.9	.8	.9	.8	.9
1979	.8	.8	.9	1.0	1.0	1.3	P1.1					

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	
	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>
<b>ALABAMA:</b>												
Birmingham .....	3.4	2.8	2.3	2.0	0.7	0.5	2.9	2.2	1.2	1.0	0.9	0.4
Mobile .....	3.9	3.8	2.5	3.2	1.2	.4	5.0	2.4	1.2	1.2	3.1	.4
<b>ALASKA</b> .....	26.1	45.1	18.5	39.3	5.9	4.4	12.5	6.8	7.4	4.2	1.3	1.2
<b>ARIZONA</b> .....	6.2	6.4	5.4	5.6	.7	.6	4.9	4.9	3.2	3.3	.5	.4
Phoenix .....	6.2	6.5	5.6	5.9	.5	.5	4.9	5.2	3.2	3.4	.5	.4
<b>ARKANSAS</b> .....	8.7	6.7	7.4	5.4	1.0	.8	6.5	6.7	4.7	4.4	.7	1.2
Fort Smith .....	12.6	7.0	11.5	5.0	.4	.9	6.4	6.2	4.5	3.6	.3	1.0
Little Rock—North Little Rock .....	5.7	4.4	4.7	3.9	.7	.4	4.8	4.3	3.0	2.5	.6	.4
Pine Bluff .....	4.2	3.1	3.7	2.6	.4	.4	3.1	3.1	2.1	2.0	.3	.2
<b>COLORADO</b> .....	5.4	(*)	4.9	(*)	.3	(*)	4.1	(*)	3.0	(*)	.2	(*)
Denver—Boulder .....	4.7	(*)	4.4	(*)	.2	(*)	3.8	(*)	2.7	(*)	.2	(*)
<b>CONNECTICUT</b> .....	3.3	3.3	2.5	2.7	.5	.3	2.3	2.4	1.4	1.4	.3	.2
Hartford .....	3.2	2.5	2.6	2.1	.2	.2	1.8	1.7	1.2	1.1	.1	.1
<b>DELAWARE</b> .....	3.0	2.8	1.6	1.8	.5	.3	1.5	1.9	.9	1.0	.2	.5
Wilmington .....	2.2	2.4	1.1	1.5	.3	.2	1.2	1.6	.6	.6	.2	.5
<b>FLORIDA</b> .....	5.9	5.8	5.3	5.2	.5	.4	5.4	6.6	3.5	3.5	.8	1.9
Fort Lauderdale—Hollywood .....	7.1	7.5	6.8	7.3	.2	.1	6.7	7.0	4.9	5.4	.4	.5
Jacksonville .....	6.5	4.9	5.4	4.3	1.1	.5	4.0	11.1	2.4	2.1	.3	7.9
Miami .....	6.0	6.0	5.6	5.7	.3	.3	5.5	5.5	3.4	3.7	1.2	.7
Orlando .....	3.9	4.5	3.6	3.9	.2	.4	4.8	5.3	3.0	3.3	.9	1.2
Pensacola .....	2.1	2.2	2.1	2.0	( <sup>1</sup> )	.1	1.7	1.8	1.3	1.3	( <sup>1</sup> )	( <sup>1</sup> )
Tampa—St. Petersburg .....	7.0	6.8	6.2	6.3	.7	.4	6.1	7.4	4.4	4.6	.5	1.6
West Palm Beach—Boca Raton .....	6.1	8.7	5.7	8.1	.3	.5	4.9	6.9	2.9	4.8	.2	( <sup>1</sup> )
<b>GEORGIA</b> .....	4.5	4.6	3.7	3.9	.3	.4	4.2	3.9	2.9	2.6	.4	.4
Atlanta .....	3.6	3.8	3.0	3.3	.3	.2	3.6	3.5	2.3	2.0	.5	.7
<b>HAWAII</b> <sup>3</sup> .....	3.4	5.2	1.8	2.4	1.5	2.6	6.8	3.9	1.4	1.1	4.6	2.2
<b>IDAHO</b> <sup>4</sup> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>ILLINOIS:</b>												
Chicago SMSA .....	3.1	4.3	2.6	3.7	.3	.3	3.1	3.8	1.6	2.0	.5	.5
<b>INDIANA</b> <sup>5</sup> .....	4.3	3.2	3.1	2.2	.7	.6	3.9	3.6	1.6	1.3	1.3	1.3
Indianapolis <sup>6</sup> .....	4.2	3.2	3.3	2.4	.4	.4	2.8	3.2	1.5	1.4	.4	.7
<b>IOWA</b> .....	4.6	(*)	3.4	(*)	.9	(*)	5.1	(*)	2.0	(*)	2.3	(*)
Cedar Rapids .....	8.6	(*)	1.4	(*)	6.9	(*)	5.0	(*)	1.6	(*)	2.8	(*)
Des Moines .....	4.4	(*)	2.7	(*)	.5	(*)	3.8	(*)	1.8	(*)	.3	(*)
<b>KANSAS</b> .....	6.3	(*)	5.5	(*)	.5	(*)	5.1	(*)	3.5	(*)	.6	(*)
Topeka .....	4.6	(*)	3.8	(*)	.8	(*)	3.8	(*)	2.5	(*)	.2	(*)
Wichita .....	7.2	(*)	6.5	(*)	.4	(*)	5.1	(*)	3.5	(*)	.3	(*)
<b>KENTUCKY</b> .....	3.4	3.3	2.5	2.3	.5	.5	3.3	3.2	1.6	1.4	.9	.9
Louisville .....	2.8	3.1	1.7	1.8	.4	.4	3.7	2.7	1.0	.9	1.4	.4
<b>LOUISIANA</b>												
New Orleans .....	7.7	5.6	5.5	4.9	1.8	.5	5.4	5.8	3.4	2.9	.7	1.5
<b>MAINE</b> .....	6.8	7.3	4.9	5.1	1.6	1.9	5.1	5.2	3.3	3.1	.8	1.2
Portland .....	5.5	5.6	4.4	4.7	.7	.8	4.5	5.1	2.6	2.4	.6	1.7
<b>MARYLAND</b> .....	3.4	3.4	2.2	2.4	1.1	1.0	2.5	2.9	1.2	1.2	.7	.9
Baltimore .....	3.2	3.4	2.0	2.2	1.1	1.0	2.3	2.6	1.0	.9	.8	.9
<b>MASSACHUSETTS</b> .....	4.5	(*)	3.4	(*)	.7	(*)	3.5	(*)	2.0	(*)	.7	(*)
Boston .....	3.7	(*)	3.0	(*)	.5	(*)	2.9	(*)	1.7	(*)	.5	(*)
<b>MICHIGAN</b> .....	3.6	2.8	2.6	2.0	.6	.5	2.5	2.7	1.1	1.0	.5	1.0
Detroit .....	3.1	2.5	2.1	1.8	.6	.4	2.0	2.5	1.0	.9	.3	.8
Flint .....	3.0	1.9	2.8	1.6	( <sup>1</sup> )	( <sup>1</sup> )	2.3	2.2	.5	.5	.2	.9
Grand Rapids .....	4.9	4.1	3.4	3.4	1.1	.5	3.0	3.4	1.6	1.5	.6	1.1
Lansing—East Lansing .....	3.9	4.1	3.5	2.7	.2	.4	2.7	2.2	1.3	.9	.1	.3

See footnotes at end of table.

## ESTABLISHMENT DATA STATE AND AREA LABOR TURNOVER

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>	May 1979	June 1979 <sup>P</sup>
MINNESOTA .....	4.6	6.0	3.7	5.2	0.7	0.5	3.9	4.2	2.5	2.6	0.7	0.8
Minneapolis—St. Paul .....	3.9	5.2	3.4	4.8	.2	.2	3.5	3.6	2.2	2.2	.5	.6
MISSISSIPPI:												
Jackson .....	5.5	4.8	5.0	4.3	.4	.4	4.1	4.0	2.9	2.9	.5	.2
MISSOURI .....	4.3	3.8	3.5	3.1	.6	.5	3.8	3.2	2.0	2.0	1.0	.5
Kansas City .....	4.1	4.0	3.5	3.4	.4	.3	3.5	3.4	2.0	1.9	.5	.5
St. Louis .....	3.4	3.2	2.4	2.5	.7	.6	3.1	2.5	1.1	1.1	1.3	.6
MONTANA .....	2.7	(*)	1.5	(*)	.4	(*)	3.2	(*)	1.4	(*)	.6	(*)
NEBRASKA .....	5.6	4.6	4.8	4.3	.6	.2	4.2	4.1	3.0	3.0	.4	.3
NEVADA .....	8.8	10.9	8.3	10.3	.2	.2	8.2	9.0	5.9	6.5	.5	.8
NEW HAMPSHIRE .....	7.0	6.5	5.7	5.7	1.0	.5	6.0	6.2	4.2	4.1	.8	1.2
NEW JERSEY:												
Camden <sup>7</sup> .....	3.6	5.0	2.8	3.8	.5	.6	4.1	4.1	1.2	1.1	1.9	1.5
Hackensack .....	4.9	4.4	3.9	3.5	.9	.7	3.6	3.7	1.9	1.9	.8	.6
Jersey City .....	3.7	3.5	2.7	2.6	.8	.8	2.5	2.9	1.0	1.1	.9	1.2
Newark .....	3.9	3.5	2.6	2.9	1.0	.3	2.8	4.4	1.3	1.3	.7	2.2
New Brunswick—Perth Amboy—Sayreville .....	4.5	3.8	3.7	3.1	.5	.3	3.6	2.8	1.7	1.5	.6	.4
Paterson—Clifton—Passaic .....	4.0	4.8	3.2	4.1	.7	.5	4.0	5.4	1.7	2.0	1.4	2.5
Trenton .....	2.8	4.2	2.1	3.4	.5	.6	2.5	4.1	1.0	1.6	.5	1.7
NEW YORK .....	4.4	4.5	2.8	3.2	1.4	1.1	3.4	3.8	1.3	1.4	1.3	1.6
Albany—Schenectady—Troy .....	3.1	3.6	1.7	2.3	.8	.9	2.6	3.1	1.0	1.1	.7	1.1
Binghamton .....	3.6	3.3	2.9	2.7	.4	.4	2.9	2.9	1.5	1.5	.4	.2
Buffalo .....	3.0	3.1	1.8	1.9	.9	.9	1.8	2.7	.7	.8	.4	1.2
Elmira .....	2.9	4.1	2.1	2.9	.6	.9	3.6	2.8	1.1	1.2	1.6	.6
Monroe County <sup>8</sup> .....	2.8	4.5	2.3	4.1	.3	.2	1.8	1.9	.9	.9	.4	.5
Nassau—Suffolk <sup>9</sup> .....	5.0	5.3	4.2	4.2	.6	.9	3.9	4.6	2.3	2.3	.6	1.4
New York and Nassau—Suffolk .....	4.8	5.0	3.0	3.4	1.6	1.4	4.4	4.2	1.5	1.5	2.1	1.9
New York SMSA <sup>9</sup> .....	4.8	4.9	2.7	3.2	1.9	1.6	4.6	4.1	1.3	1.3	2.4	2.0
New York City <sup>10</sup> .....	5.0	5.2	2.8	3.3	2.1	1.7	4.9	4.4	1.3	1.3	2.7	2.2
Rochester .....	3.2	4.7	2.5	4.0	.5	.5	2.1	2.1	1.0	1.0	.5	.5
Syracuse .....	3.5	3.9	2.2	2.3	1.1	1.3	2.5	2.4	.9	1.0	.8	.8
Utica—Rome .....	3.8	3.6	2.4	2.7	1.1	.6	2.9	2.2	1.1	1.0	1.0	.6
Westchester County <sup>10</sup> .....	3.1	3.1	2.2	2.4	.7	.4	2.4	2.7	1.2	1.3	.5	.7
NORTH CAROLINA .....	5.4	4.8	4.7	4.2	.4	.3	4.8	4.3	3.5	3.0	.3	.3
Charlotte—Gastonia .....	6.8	5.3	6.0	4.8	.4	.3	6.0	5.0	4.7	3.7	.1	.3
Greensboro—Winston-Salem—High Point .....	4.7	4.8	4.3	4.0	.2	.2	4.2	3.7	3.0	2.6	.3	.3
NORTH DAKOTA .....	10.5	7.5	8.5	6.0	1.6	1.2	6.7	6.7	5.3	5.0	.3	1.3
Fargo—Moorhead .....	10.6	7.5	6.4	4.4	3.7	2.2	8.7	4.2	4.3	3.0	3.6	.1
OHIO .....	3.4	3.5	2.2	2.5	(*)	(*)	2.3	2.7	1.0	1.1	.5	.8
Akron .....	2.2	2.5	1.2	2.0	(*)	(*)	1.7	2.3	.8	.9	.4	.6
Canton .....	4.0	3.8	2.6	3.1	(*)	(*)	2.8	2.1	1.0	1.0	.5	.4
Cincinnati .....	3.6	3.6	2.5	2.5	(*)	(*)	2.6	2.8	1.2	1.1	.6	.6
Cleveland .....	3.1	3.4	2.3	2.6	(*)	(*)	2.4	3.0	1.2	1.3	.3	.7
Columbus .....	2.1	2.9	1.4	2.1	(*)	(*)	2.4	2.6	1.1	1.4	.7	.5
Dayton .....	2.8	3.0	2.3	2.4	(*)	(*)	2.0	2.9	.9	1.0	.4	.9
Toledo .....	2.7	2.9	1.6	2.3	(*)	(*)	2.2	2.1	.8	1.1	.5	.4
Youngstown—Warren .....	3.2	2.7	1.0	1.6	(*)	(*)	1.9	2.1	.4	.6	.6	.5
OKLAHOMA .....	7.9	6.6	7.2	6.0	.5	.4	6.7	6.3	5.1	4.6	.4	.5
Oklahoma City .....	7.7	7.2	7.1	6.2	.5	.9	6.3	6.8	5.0	4.9	.3	.4
Tulsa <sup>11</sup> .....	7.1	5.6	6.4	5.2	.5	.2	6.6	6.0	4.6	4.0	.5	.5
OREGON <sup>5</sup> .....	5.0	5.9	4.1	4.8	.8	.8	4.1	3.8	2.4	2.3	.9	.6
Portland <sup>5</sup> .....	5.3	6.2	4.3	5.1	.8	.8	4.5	4.3	2.5	2.7	1.0	.6
PENNSYLVANIA .....	3.6	3.5	2.3	2.5	1.0	.7	2.8	2.8	1.2	1.2	.9	1.0
Allentown—Bethlehem—Easton .....	3.1	3.1	2.1	2.2	.9	.8	2.5	2.4	1.1	1.0	.8	.8
Altoona .....	3.0	2.5	1.4	1.4	1.4	1.1	2.3	1.2	.7	.8	1.3	.1
Erie .....	2.9	3.2	1.9	2.3	.7	.6	2.7	2.1	1.1	1.0	.7	.4
Harrisburg .....	2.9	3.2	2.5	2.7	.2	.3	2.1	1.9	1.3	1.2	.3	.2
Johnstown .....	4.3	2.4	1.1	.9	3.1	1.5	2.6	2.6	.7	.7	.8	.8
Lancaster .....	3.5	4.4	3.0	4.0	.4	.3	3.1	3.3	2.3	2.0	.3	.7

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA LABOR TURNOVER

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	May 1979	June 1979 <sup>p</sup>	May 1979	June 1979 <sup>p</sup>	May 1979	June 1979 <sup>p</sup>	May 1979	June 1979 <sup>p</sup>	May 1979	June 1979 <sup>p</sup>	May 1979	June 1979 <sup>p</sup>
<b>PENNSYLVANIA—Continued</b>												
Northeast Pennsylvania .....	4.0	3.5	2.2	2.0	1.6	1.3	3.8	3.5	1.4	1.2	1.9	1.8
Philadelphia SMSA .....	3.5	3.7	2.5	2.8	.8	.7	3.1	3.2	1.2	1.2	1.2	1.0
Pittsburgh .....	3.2	2.9	1.8	2.2	1.1	.4	1.8	2.1	.6	.7	.6	.7
Reading .....	3.7	3.3	2.6	2.4	1.0	.8	3.8	3.2	1.5	1.6	1.5	1.0
Scranton <sup>12</sup> .....	4.3	3.5	2.0	1.7	2.1	1.7	3.9	4.2	1.2	1.2	2.3	2.6
Wilkes-Barre—Hazleton <sup>12</sup> .....	3.1	3.2	1.8	1.9	1.1	.9	2.8	2.6	1.2	1.2	1.1	1.0
Williamsport .....	3.0	2.3	2.1	1.7	.9	.3	3.9	1.7	.9	.7	2.4	.7
York .....	4.4	4.1	3.1	3.3	1.1	.7	4.0	3.9	2.4	2.1	1.0	1.3
<b>RHODE ISLAND</b>												
Providence—Warwick—Pawtucket .....	6.2	5.8	5.0	4.8	.8	.6	5.1	5.3	3.2	3.1	1.0	1.2
Providence—Warwick—Pawtucket .....	6.3	5.7	5.2	4.8	.8	.6	5.3	5.3	3.4	3.1	1.0	1.1
<b>SOUTH CAROLINA</b>												
Charleston—North Charleston .....	4.9	4.4	4.2	3.8	.3	.2	4.1	4.1	2.8	2.6	.3	.5
Charleston—North Charleston .....	4.1	2.9	3.4	2.6	.5	.2	5.7	4.9	3.1	2.5	1.0	1.4
Columbia .....	5.0	4.1	4.2	3.6	.2	.2	4.7	3.6	3.2	2.4	.4	.2
Greenville—Spartanburg .....	5.8	4.9	5.1	4.3	.3	.2	5.0	4.7	3.4	3.1	.2	.4
<b>SOUTH DAKOTA</b>												
Sioux Falls .....	6.7	6.7	5.7	5.7	.6	.3	3.7	4.5	2.9	3.6	.2	.3
Sioux Falls .....	5.1	4.4	4.8	4.1	.3	.3	3.2	3.0	2.3	2.3	.3	.2
<b>TENNESSEE:</b>												
Memphis .....	3.6	3.1	2.7	2.5	.6	.3	2.8	2.8	1.6	1.5	.4	.4
<b>TEXAS:</b>												
Dallas—Fort Worth .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Houston .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
San Antonio .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>UTAH <sup>4</sup></b>												
Salt Lake City—Ogden <sup>4</sup> .....	5.0	6.3	4.2	5.4	.4	.7	5.0	5.6	3.6	3.8	.4	.9
Salt Lake City—Ogden <sup>4</sup> .....	4.5	5.9	4.1	5.5	.3	.2	5.2	5.0	3.9	3.7	.3	.5
<b>VERMONT</b>												
Burlington .....	5.0	4.7	4.1	3.8	.7	.8	3.5	3.8	2.2	2.2	.5	.8
Burlington .....	4.8	4.3	4.4	4.0	.2	.1	1.8	2.4	1.2	1.1	.3	.7
Springfield .....	3.1	3.7	2.4	3.1	.5	.5	2.8	2.5	1.6	1.6	.6	.5
<b>VIRGINIA</b>												
Richmond .....	4.0	4.0	2.9	3.0	.8	.7	3.9	3.3	2.0	1.8	.9	.7
Richmond .....	2.0	2.4	1.7	1.8	.2	.2	2.0	1.8	.9	.8	.5	.1
<b>WASHINGTON:</b>												
Seattle—Everett <sup>13</sup> .....	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
<b>WISCONSIN</b>												
Milwaukee .....	4.2	4.5	2.9	3.4	.9	.6	2.7	2.9	1.4	1.4	.5	.6
Milwaukee .....	3.8	3.6	2.8	2.7	.5	.3	2.7	2.8	1.3	1.2	.5	.5
<b>WYOMING</b>												
.....	11.4	10.3	10.8	9.4	.2	.9	7.3	8.0	5.6	5.5	.2	.9

<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					
	JUL. 1978	JUN. 1979	JUL. 1979P	Number			Percent of labor force		
				JUL. 1978	JUN. 1979	JUL. 1979P	JUL. 1978	JUN. 1979	JUL. 1979P
<b>ALABAMA</b> .....	1,635.0	1,643.7	1,653.2	117.4	129.7	131.1	7.2	7.9	7.9
Birmingham .....	378.7	382.4	384.0	22.9	26.0	24.0	6.1	6.8	6.2
Huntsville .....	137.1	140.4	141.5	9.3	12.5	10.9	6.8	8.9	7.7
Mobile .....	184.7	188.1	186.7	14.2	17.2	16.9	7.7	9.2	9.1
Montgomery .....	117.6	122.0	121.8	7.5	8.2	7.5	6.3	6.7	6.1
Tuscaloosa .....	50.6	50.8	50.4	3.8	3.3	3.1	7.4	6.5	6.1
<b>ALASKA</b> .....	192.4	194.7	195.2	19.3	16.7	14.9	10.0	8.6	7.6
<b>ARIZONA</b> .....	979.2	1,036.9	1,031.4	63.5	63.1	55.3	6.5	6.1	5.4
Phoenix .....	590.9	629.8	624.9	32.9	32.6	28.2	5.6	5.2	4.5
Tucson .....	175.8	185.1	183.9	10.1	9.0	7.8	5.8	4.9	4.2
<b>ARKANSAS</b> .....	942.1	1,000.6	1,004.3	57.6	57.4	57.4	6.1	5.7	5.7
Fayetteville-Springdale .....	70.6	75.9	76.5	4.1	2.9	3.0	5.9	3.8	4.0
Fort Smith <sup>1</sup> .....	84.2	87.3	85.9	5.0	6.2	5.9	5.9	7.1	6.9
Little Rock-North Little Rock .....	178.6	191.6	191.3	8.5	7.8	7.5	4.8	4.1	3.9
Pine Bluff .....	36.9	39.5	39.3	2.6	2.4	2.2	6.9	6.0	5.5
<b>CALIFORNIA</b> <sup>2</sup> .....	10,783.1	10,878.4	11,076.2	873.7	640.3	690.7	8.1	5.9	6.2
Anaheim-Santa Ana-Garden Grove .....	1,008.8	1,069.7	1,074.5	58.9	47.0	43.9	5.8	4.4	4.1
Bakersfield .....	179.8	183.8	185.7	15.7	13.5	13.3	8.7	7.3	7.1
Fresno .....	259.0	267.5	269.2	21.6	18.3	16.9	8.3	6.9	6.3
Los Angeles-Long Beach <sup>2</sup> .....	3,484.0	3,432.0	3,525.0	275.0	180.0	223.0	7.9	5.2	6.3
Modesto .....	132.7	135.2	139.1	17.1	16.8	16.0	12.9	12.4	11.5
Oxnard-Simi Valley-Ventura .....	219.3	217.8	219.6	20.1	15.9	16.2	9.2	7.3	7.4
Riverside-San Bernardino-Ontario .....	555.0	569.9	575.6	47.0	37.0	39.2	8.5	6.5	6.8
Sacramento .....	446.2	459.6	470.6	39.3	31.3	32.7	8.8	6.8	7.0
Salinas-Seaside-Monterey .....	130.1	132.3	132.3	9.9	8.1	7.6	7.6	6.1	5.8
San Diego .....	694.9	715.2	729.2	53.9	40.6	43.2	7.8	5.7	5.9
San Francisco-Oakland .....	1,595.5	1,592.4	1,630.1	120.6	82.7	86.3	7.6	5.2	5.3
San Jose .....	673.2	686.2	705.8	46.3	36.4	35.7	6.9	5.3	5.1
Santa Barbara-Santa Maria-Lompoc .....	142.3	140.7	142.0	11.7	8.1	8.4	8.2	5.8	5.9
Santa Rosa .....	121.4	121.8	124.5	10.7	7.5	7.7	8.8	6.1	6.2
Stockton .....	163.5	167.7	162.3	20.7	13.9	14.4	12.7	8.3	8.9
Vallejo-Fairfield-Napa .....	122.8	124.4	125.2	9.3	6.9	7.8	7.6	5.5	6.2
<b>COLORADO</b> .....	1,312.5	1,378.8	1,385.4	68.9	71.1	66.3	5.3	5.2	4.8
Denver-Boulder .....	760.6	804.6	804.3	38.3	39.5	36.3	5.0	4.9	4.5
<b>CONNECTICUT</b> .....	1,537.9	1,622.3	1,608.6	81.2	85.2	86.8	5.3	5.3	5.4
Bridgeport .....	186.9	194.7	192.7	11.2	10.2	11.0	6.0	5.2	5.7
Hartford .....	367.4	389.0	384.2	16.7	19.0	17.2	4.5	4.9	4.5
New Britain .....	70.9	76.0	74.1	3.4	4.2	4.0	4.7	5.5	5.4
New Haven-West Haven .....	198.1	211.1	210.8	10.0	11.3	11.1	5.1	5.3	5.3
Stamford .....	121.6	125.1	124.8	5.7	5.1	5.4	4.7	4.1	4.3
Waterbury .....	107.8	112.6	113.2	6.7	6.3	7.9	6.2	5.6	7.0
<b>DELAWARE</b> .....	278.9	276.1	277.2	21.7	21.4	21.9	7.8	7.7	7.9
Wilmington <sup>1</sup> .....	238.5	239.8	240.3	17.7	17.4	18.6	7.4	7.3	7.7
<b>DISTRICT OF COLUMBIA</b> .....	339.5	324.6	327.5	29.8	29.5	27.3	8.8	9.1	8.3
Washington SMSA <sup>1</sup> .....	1,598.4	1,613.7	1,621.9	79.7	81.6	77.4	5.0	5.1	4.8
<b>FLORIDA</b> <sup>2</sup> .....	3,796.6	3,902.8	3,893.0	258.7	233.8	256.1	6.8	6.0	6.6
Fort Lauderdale-Hollywood .....	386.9	395.0	393.2	24.9	21.0	21.6	6.4	5.3	5.5
Jacksonville .....	310.1	317.7	311.9	18.6	19.2	18.4	6.0	6.1	5.9
Miami .....	715.0	723.1	728.1	49.6	43.2	44.4	6.9	6.0	6.1
Orlando .....	306.4	319.5	320.3	20.5	18.8	21.6	6.7	5.9	6.8
Pensacola .....	114.7	115.7	116.3	6.7	6.9	7.1	5.9	6.0	6.1
Tampa-St. Petersburg .....	578.6	590.5	586.9	36.7	29.9	33.6	6.3	5.1	5.7
West Palm Beach-Boca Raton .....	205.4	218.6	219.1	16.7	15.5	17.2	8.1	7.1	7.9
<b>GEORGIA</b> .....	2,333.1	2,360.8	2,361.7	136.3	133.2	132.3	5.8	5.6	5.6
Albany .....	47.4	51.4	51.5	3.4	3.4	3.3	7.2	6.5	6.5
Atlanta .....	908.9	919.9	916.6	49.9	48.7	44.8	5.5	5.3	4.9
Augusta .....	122.8	127.6	128.2	7.5	8.2	7.6	6.1	6.4	5.9
Columbus <sup>1</sup> .....	85.6	88.2	89.2	6.0	6.6	6.3	7.0	7.4	7.1
Macon .....	101.8	102.4	102.3	6.6	6.1	6.3	6.5	6.0	6.2
Savannah .....	91.6	91.9	90.5	5.5	5.6	5.5	6.0	6.1	6.1

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					
	JUL. 1978	JUN. 1979	JUL. 1979P	Number			Percent of labor force		
				JUL. 1978	JUN. 1979	JUL. 1979P	JUL. 1978	JUN. 1979	JUL. 1979P
<b>HAWAII</b> .....	407.3	401.7	404.3	33.4	28.8	25.1	8.2	7.2	6.2
Honolulu .....	319.6	315.6	317.0	25.5	22.0	19.1	8.0	7.0	6.0
<b>IDAHO</b> .....	420.8	433.7	430.9	21.8	21.1	21.5	5.2	4.9	5.0
Boise City .....	88.2	91.6	90.5	2.9	3.6	3.7	3.3	4.0	4.0
<b>ILLINOIS</b> <sup>2</sup> .....	5,399.9	5,419.5	5,479.8	344.3	323.1	277.7	6.4	6.0	5.1
Bloomington—Normal .....	57.5	57.6	58.6	2.3	2.7	1.9	4.1	4.6	3.2
Champaign—Urbana—Rantoul .....	76.9	79.2	80.0	4.0	4.0	3.3	5.2	5.1	4.1
Chicago .....	3,448.0	3,460.1	3,507.4	217.1	196.8	169.4	6.3	5.7	4.8
Davenport—Rock Island—Moline <sup>1</sup> .....	181.4	185.7	187.2	9.8	7.8	7.6	5.4	4.2	4.0
Decatur .....	59.9	60.5	60.1	5.4	4.1	3.5	9.0	6.8	5.9
Peoria .....	176.2	178.8	180.0	8.9	9.5	7.7	5.1	5.3	4.3
Rockford .....	137.7	140.8	141.0	7.9	7.8	6.8	5.7	5.6	4.8
Springfield .....	98.0	97.1	97.6	6.3	6.0	5.1	6.4	6.2	5.2
<b>INDIANA</b> .....	2,619.5	2,654.5	2,650.2	153.2	156.3	170.9	5.8	5.9	6.4
Anderson .....	61.8	60.4	60.4	5.1	3.2	5.2	8.2	5.4	8.6
Evansville <sup>1</sup> .....	144.4	141.9	142.9	7.1	6.6	8.1	4.9	4.7	5.6
Fort Wayne .....	188.0	196.0	196.0	9.0	10.2	12.0	4.8	5.2	6.1
Gary—Hammond—East Chicago .....	294.2	299.1	292.1	18.3	19.5	17.7	6.2	6.5	6.1
Indianapolis .....	588.6	599.0	598.8	32.6	31.6	32.8	5.5	5.3	5.5
Lafayette—West Lafayette .....	60.0	61.0	60.7	2.4	3.0	3.1	4.1	4.8	5.2
Muncie .....	56.6	56.9	56.6	4.8	3.7	4.1	8.4	6.5	7.3
South Bend .....	142.4	144.7	143.1	8.4	8.6	9.6	5.9	6.0	6.7
Terre Haute .....	81.0	82.0	82.2	4.7	4.2	4.9	5.8	5.1	6.0
<b>IOWA</b> .....	1,461.7	1,483.8	1,471.4	58.0	48.7	50.9	4.0	3.3	3.5
Cedar Rapids .....	84.8	88.6	87.2	2.9	2.9	2.7	3.5	3.3	3.1
Des Moines .....	180.7	183.3	182.1	7.6	5.9	6.8	4.2	3.2	3.7
Dubuque .....	44.5	46.0	45.9	2.6	2.0	2.1	5.8	4.4	4.6
Sioux City <sup>1</sup> .....	57.0	57.0	56.8	3.6	3.5	3.6	6.4	6.1	6.3
Waterloo—Cedar Falls .....	66.7	69.1	69.6	3.6	2.7	2.7	5.4	3.9	3.9
<b>KANSAS</b> .....	1,184.9	1,223.2	1,209.4	34.6	43.5	47.1	2.9	3.6	3.9
Topeka .....	97.4	100.2	98.1	3.3	4.9	4.8	3.4	4.9	4.9
Wichita .....	220.2	232.8	231.7	7.2	8.9	9.0	3.3	3.8	3.9
<b>KENTUCKY</b> .....	1,578.9	1,546.9	1,560.3	90.4	74.8	87.6	5.7	4.8	5.6
Lexington—Fayette .....	160.7	162.3	162.3	6.8	5.0	6.5	4.2	3.1	4.0
Louisville <sup>1</sup> .....	416.2	412.7	418.9	23.8	21.0	21.9	5.7	5.1	5.2
Owensboro .....	38.1	37.9	37.9	2.0	1.7	2.1	5.4	4.6	5.5
<b>LOUISIANA</b> .....	1,643.8	1,676.5	1,668.9	121.7	114.0	111.8	7.4	6.8	6.7
Alexandria .....	67.8	68.1	68.6	6.0	5.4	5.7	8.8	7.9	8.4
Baton Rouge .....	205.1	202.5	201.8	14.7	14.7	13.5	7.1	7.2	6.7
Lafayette .....	64.7	69.7	69.9	3.1	3.3	3.1	4.7	4.7	4.4
Lake Charles .....	67.4	67.6	67.4	5.9	4.8	4.6	8.7	7.1	6.9
Monroe .....	53.6	53.6	53.6	4.2	3.7	3.6	7.8	7.0	6.7
New Orleans .....	468.5	473.5	466.5	33.8	30.9	30.5	7.2	6.5	6.5
Shreveport .....	151.2	153.7	154.8	10.5	9.2	9.2	7.0	6.0	5.9
<b>MAINE</b> .....	499.3	494.6	504.4	35.5	33.5	43.4	7.1	6.8	8.6
Lewiston—Auburn .....	36.8	37.8	37.7	3.5	2.5	4.8	9.4	6.6	12.6
Portland .....	86.4	85.5	84.9	4.7	4.9	5.1	5.4	5.7	6.1
<b>MARYLAND</b> .....	2,086.1	2,142.6	2,142.2	120.0	124.3	126.0	5.8	5.8	5.9
Baltimore .....	1,057.2	1,080.1	1,074.2	69.1	68.3	69.2	6.5	6.3	6.4
<b>MASSACHUSETTS</b> <sup>2</sup> .....	2,927.1	2,947.3	2,948.3	185.9	150.3	146.2	6.3	5.1	5.0
Boston .....	1,405.9	1,413.8	N.A.	88.0	70.6	N.A.	6.3	5.0	N.A.
Brockton .....	82.2	83.3	N.A.	5.5	5.0	N.A.	6.6	6.0	N.A.
Fall River <sup>1</sup> .....	82.0	83.1	N.A.	5.6	4.7	N.A.	6.9	5.7	N.A.
Lawrence—Haverhill <sup>1</sup> .....	143.4	142.4	N.A.	9.9	8.4	N.A.	6.9	5.9	N.A.
Lowell .....	115.1	123.7	N.A.	8.1	6.6	N.A.	7.1	5.3	N.A.
New Bedford .....	85.0	87.3	N.A.	7.6	5.0	N.A.	9.0	5.8	N.A.
Springfield—Chicopee—Holyoke .....	280.7	289.5	N.A.	15.6	12.5	N.A.	5.6	4.3	N.A.
Worcester .....	199.3	205.1	N.A.	10.4	8.5	N.A.	5.2	4.2	N.A.
<b>MICHIGAN</b> <sup>2</sup> .....	4,237.7	4,383.1	4,403.6	308.3	316.9	338.7	7.3	7.2	7.7
Ann Arbor .....	131.9	144.1	142.3	8.0	8.0	7.7	6.1	5.6	5.4

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		
	JUL. 1978	JUN. 1979	JUL. 1979P	JUL. 1978	JUN. 1979	JUL. 1979P	JUL. 1978	JUN. 1979	JUL. 1979P
<b>MICHIGAN—Continued</b>									
Battle Creek .....	82.8	83.1	83.5	5.4	5.3	5.0	6.6	6.3	6.0
Bay City .....	54.6	54.1	53.7	3.7	3.8	3.4	6.7	7.1	6.3
Detroit .....	2,007.4	2,085.9	2,094.6	142.4	149.0	165.1	7.1	7.1	7.9
Flint .....	227.2	230.1	235.1	18.0	17.0	24.3	7.9	7.4	10.3
Grand Rapids .....	290.9	304.9	303.8	16.3	17.0	17.0	5.6	5.6	5.6
Jackson .....	65.9	70.3	70.2	3.8	5.0	4.9	5.7	7.1	7.0
Kalamazoo—Portage .....	131.9	133.2	132.3	8.6	8.0	7.2	6.5	6.0	5.5
Lansing—East Lansing .....	228.0	241.2	240.5	17.3	14.6	18.8	7.6	6.0	7.8
Muskegon—Norton Shores—Muskegon Heights .....	78.6	78.7	79.1	7.4	7.3	6.7	9.5	9.3	8.5
Saginaw .....	104.2	105.7	106.3	5.8	7.0	6.8	5.6	6.7	6.4
<b>MINNESOTA</b>									
Duluth—Superior <sup>1</sup> .....	121.4	119.7	119.8	6.0	6.3	6.6	4.9	5.3	5.5
Minneapolis—St. Paul .....	1,071.4	1,099.1	1,082.2	35.2	35.4	33.1	3.3	3.2	3.1
<b>MISSISSIPPI</b>									
Jackson .....	143.9	149.3	149.1	8.1	5.7	5.4	5.6	3.8	3.7
<b>MISSOURI</b>									
Kansas City <sup>1</sup> .....	697.4	706.7	709.6	30.7	27.5	32.4	4.4	3.9	4.6
St. Joseph .....	45.8	44.6	44.9	2.9	2.0	2.0	6.3	4.5	4.5
St. Louis <sup>1</sup> .....	1,099.5	1,112.5	1,117.5	62.3	57.3	55.3	5.7	5.1	4.9
Springfield .....	100.7	104.1	103.9	4.2	3.4	3.6	4.2	3.2	3.5
<b>MONTANA</b>									
Billings .....	55.4	55.3	55.7	2.3	1.8	1.7	4.2	3.2	3.1
Great Falls .....	37.2	36.8	36.4	2.3	2.1	2.1	6.3	5.7	5.7
<b>NEBRASKA</b>									
Lincoln .....	109.2	111.5	108.4	2.1	3.4	3.1	1.9	3.0	2.9
Omaha <sup>1</sup> .....	282.8	279.0	278.3	10.7	13.8	11.7	3.8	4.9	4.2
<b>NEVADA</b>									
Las Vegas .....	179.4	186.3	187.8	8.7	13.1	11.9	4.8	7.0	6.3
Reno .....	102.5	103.6	104.0	2.2	3.6	3.6	2.1	3.4	3.4
<b>NEW HAMPSHIRE</b>									
Manchester .....	79.7	84.7	86.5	3.6	3.1	3.7	4.5	3.7	4.3
Nashua .....	58.0	61.7	61.9	2.4	2.1	2.3	4.1	3.4	3.7
<b>NEW JERSEY</b>									
Atlantic City .....	95.0	100.3	105.0	8.1	8.7	10.5	8.5	8.7	10.0
Jersey City .....	295.9	249.4	253.2	29.9	28.0	28.4	11.7	10.4	11.2
Long Branch—Asbury Park .....	232.9	232.0	234.0	18.8	16.2	18.1	8.1	7.0	7.8
Newark .....	962.0	977.3	987.7	75.0	67.0	62.1	7.8	6.9	8.3
New Brunswick—Perth Amboy—Sayreville .....	313.7	328.1	328.1	24.2	22.2	22.7	7.7	6.8	6.9
Paterson—Clifton—Passaic .....	215.2	221.2	220.5	20.4	19.8	21.0	9.5	9.0	9.5
Trenton .....	156.0	161.4	164.1	9.1	8.9	12.7	5.8	5.5	7.7
Vineland—Millville—Bridgeton .....	63.4	62.8	62.7	7.1	5.8	6.0	11.2	9.2	9.6
<b>NEW MEXICO</b>									
Albuquerque .....	196.7	199.6	198.6	11.0	12.6	12.1	5.6	6.3	6.1
<b>NEW YORK<sup>2</sup></b>									
Albany—Schenectady—Troy .....	373.2	376.5	382.0	23.2	17.4	19.5	6.2	4.6	5.1
Binghamton <sup>1</sup> .....	137.5	146.3	146.0	9.3	7.3	8.8	6.8	5.0	6.0
Buffalo .....	577.0	586.0	596.5	47.7	33.4	39.2	8.3	5.7	6.6
Elmira .....	40.5	41.1	41.6	3.0	2.2	2.4	7.4	5.5	5.7
Nassau—Suffolk .....	1,274.2	1,306.7	1,324.0	92.5	67.7	79.0	7.3	5.2	6.0
New York .....	3,680.7	3,648.6	3,733.5	306.8	330.2	347.2	8.3	9.0	9.3
New York City <sup>2</sup> .....	3,084.0	3,041.0	3,118.0	271.0	304.0	318.0	8.8	10.0	10.2
Poughkeepsie .....	103.4	107.7	110.2	5.4	4.0	4.6	5.2	3.7	4.2
Rochester .....	457.0	479.3	487.2	25.9	21.3	24.3	5.7	4.4	5.0
Syracuse .....	299.3	305.9	307.4	20.0	15.5	16.9	6.7	5.1	5.5
Utica—Rome .....	137.9	142.3	144.7	9.2	7.0	8.3	6.7	5.0	5.7
<b>NORTH CAROLINA</b>									
Asheville .....	86.7	85.0	85.7	5.2	3.6	4.2	6.0	4.2	4.9
Charlotte—Gastonia .....	325.9	337.5	328.8	10.3	10.6	12.0	3.2	3.2	3.6

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		
	JUL. 1978	JUN. 1979	JUL. 1979P	JUL. 1978	JUN. 1979	JUL. 1979P	JUL. 1978	JUN. 1979	JUL. 1979P
<b>NORTH CAROLINA—Continued</b>									
Greensboro—Winston-Salem—High Point .....	410.9	426.2	417.7	16.2	19.2	21.9	3.9	4.5	5.2
Raleigh—Durham .....	269.8	282.5	279.3	7.5	10.2	11.9	2.8	3.6	4.3
<b>NORTH DAKOTA</b> .....	318.0	327.9	336.0	13.2	11.5	10.1	4.2	3.5	3.0
Fargo—Moorehead <sup>1</sup> .....	72.6	73.3	73.5	2.8	3.0	2.5	3.8	4.2	3.4
<b>OHIO<sup>2</sup></b> .....	5,043.8	5,066.5	5,106.6	267.7	293.7	337.8	5.3	5.8	6.6
Akron .....	301.5	300.8	306.0	16.9	18.6	21.7	5.6	6.2	7.1
Canton .....	183.0	183.2	186.1	9.9	10.1	11.9	5.4	5.5	6.4
Cincinnati <sup>1</sup> .....	659.1	665.9	672.6	33.0	33.5	39.7	5.0	5.0	5.9
Cleveland .....	945.6	938.3	944.8	44.6	45.0	53.2	4.7	4.8	5.6
Columbus .....	538.8	544.7	546.8	24.8	27.6	30.2	4.6	5.1	5.5
Dayton .....	381.0	392.4	392.8	17.2	26.5	30.8	4.5	6.8	7.8
Toledo <sup>1</sup> .....	367.7	374.6	371.5	23.3	26.2	28.4	6.3	7.0	7.7
Youngstown—Warren .....	240.1	237.5	239.5	18.3	16.5	17.7	7.6	6.9	7.4
<b>OKLAHOMA</b> .....	1,273.7	1,311.3	1,301.7	49.4	45.9	45.8	3.9	3.5	3.5
Oklahoma City .....	383.9	405.8	403.5	13.4	12.9	12.9	3.5	3.2	3.2
Tulsa .....	305.1	307.2	307.1	11.2	10.5	10.7	3.7	3.4	3.5
<b>OREGON</b> .....	1,206.8	1,227.6	1,219.9	67.6	78.1	81.1	5.6	6.4	6.6
Eugene—Springfield .....	124.3	128.2	124.9	8.1	10.0	10.0	6.5	7.8	8.0
Portland <sup>1</sup> .....	583.4	587.2	589.0	29.2	31.8	32.9	5.0	5.4	5.6
Salem .....	112.0	117.4	115.1	6.2	7.6	7.3	5.5	6.5	6.4
<b>PENNSYLVANIA<sup>2</sup></b> .....	5,346.7	5,342.6	5,397.9	389.0	383.9	340.3	7.3	7.2	6.3
Allentown—Bethlehem—Easton <sup>1</sup> .....	297.9	299.9	304.4	22.1	19.6	20.3	7.4	6.5	6.7
Altoona .....	57.7	58.6	59.0	4.5	5.1	4.3	7.7	8.8	7.3
Erie .....	124.8	127.0	128.0	9.3	9.9	7.6	7.5	7.8	6.0
Harrisburg .....	217.8	218.6	220.5	11.1	12.0	9.6	5.1	5.5	4.4
Johnstown .....	108.1	109.7	111.0	10.0	9.1	8.6	9.3	8.3	7.8
Lancaster .....	172.7	177.2	177.8	7.9	8.9	7.2	4.6	5.0	4.1
Northeast Pennsylvania .....	287.3	282.5	291.8	28.2	24.2	28.4	9.8	8.6	9.7
Philadelphia <sup>1</sup> .....	2,091.6	2,126.3	2,122.6	165.0	159.0	137.9	7.9	7.5	6.5
Pittsburgh .....	1,010.1	1,020.0	1,033.3	59.9	64.1	52.6	5.9	6.3	5.1
Reading .....	146.4	155.1	155.3	9.2	9.8	8.7	6.3	6.3	5.6
Williamsport .....	53.4	55.6	55.6	4.2	4.9	4.4	7.9	8.9	8.0
York .....	167.7	170.6	172.7	10.0	9.7	10.1	6.0	5.7	5.8
<b>RHODE ISLAND</b> .....	436.8	454.7	460.0	31.0	32.4	32.5	7.1	7.1	7.1
Providence—Warwick—Pawtucket <sup>1</sup> .....	440.0	454.1	N.A.	31.1	32.0	N.A.	7.1	7.1	N.A.
<b>SOUTH CAROLINA</b> .....	1,328.0	1,350.6	1,344.0	83.5	75.2	65.8	6.3	5.6	4.9
Charleston—North Charleston .....	154.3	157.5	157.7	10.6	9.8	8.5	6.9	6.3	5.4
Columbia .....	170.0	174.9	174.4	8.1	7.8	7.0	4.8	4.4	4.0
Greenville—Spartanburg .....	256.9	264.2	259.9	13.2	11.7	10.0	5.2	4.4	3.8
<b>SOUTH DAKOTA</b> .....	350.8	358.2	353.0	11.1	14.1	10.6	3.2	3.9	3.0
Sioux Falls .....	62.0	63.1	61.3	1.7	2.0	1.4	2.8	3.2	2.2
<b>TENNESSEE</b> .....	1,911.6	1,993.8	2,016.0	130.5	116.3	136.5	6.8	5.8	6.8
Chattanooga <sup>1</sup> .....	184.5	190.7	190.9	10.9	11.5	13.4	5.9	6.0	7.0
Knoxville .....	204.9	209.0	210.7	15.5	9.1	9.6	7.5	4.4	4.6
Memphis <sup>1</sup> .....	367.3	385.0	387.3	21.7	20.8	21.7	5.9	5.4	5.6
Nashville—Davidson .....	388.1	406.5	408.8	19.3	18.9	22.5	5.0	4.7	5.5
<b>TEXAS<sup>2</sup></b> .....	6,090.5	6,222.9	6,287.2	316.6	300.1	297.4	5.2	4.8	4.7
Amarillo .....	86.6	88.2	88.8	3.3	3.6	3.4	3.8	4.0	3.9
Austin .....	238.4	245.3	248.9	9.5	8.7	8.8	4.0	3.5	3.5
Beaumont—Port Arthur—Orange .....	166.7	164.7	165.2	11.9	11.4	11.1	7.1	6.9	6.7
Corpus Christi .....	133.2	135.1	136.4	8.3	8.0	7.5	6.2	5.9	5.5
Dallas—Fort Worth .....	1,410.9	1,479.0	1,500.0	62.1	58.8	59.6	4.4	4.0	4.0
El Paso .....	169.3	172.6	174.0	16.8	15.5	15.0	10.0	9.0	8.6
Galveston—Texas City .....	85.7	83.1	83.9	5.6	5.1	4.8	6.5	6.2	5.7
Houston .....	1,372.7	1,401.5	1,417.0	61.7	54.3	53.4	4.5	3.9	3.8
Lubbock .....	101.8	101.9	104.0	4.2	4.3	4.1	4.1	4.3	3.9
San Antonio .....	413.2	413.6	417.0	29.5	27.8	27.2	7.1	6.7	6.5
Waco .....	77.1	78.4	79.5	4.0	3.7	3.5	5.1	4.7	4.4
Wichita Falls .....	59.6	60.1	60.6	2.3	2.2	2.3	3.9	3.6	3.8

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		
	JUL. 1978	JUN. 1979	JUL. 1979P	JUL. 1978	JUN. 1979	JUL. 1979P	JUL. 1978	JUN. 1979	JUL. 1979P
<b>UTAH</b> .....	544.6	588.4	581.6	19.5	23.1	22.1	3.6	3.9	3.8
Salt Lake City—Ogden .....	361.2	387.4	385.0	13.2	15.1	14.4	3.7	3.9	3.7
<b>VERMONT</b> .....	240.7	241.9	245.1	14.0	12.1	11.2	5.8	5.0	4.6
<b>VIRGINIA</b> .....	2,477.9	2,514.0	2,520.9	128.8	122.9	119.3	5.2	4.9	4.7
Lynchburg .....	73.9	74.6	76.7	3.7	3.0	3.1	5.0	4.0	4.1
Newport News—Hampton .....	158.1	163.7	167.1	9.5	9.3	9.6	6.0	5.7	5.8
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	323.7	326.3	325.7	19.9	20.7	18.6	6.2	6.3	5.7
Petersburg—Colonial Heights—Hopewell .....	60.3	60.8	61.3	3.7	3.3	3.2	6.2	5.4	5.3
Richmond .....	322.5	326.9	324.2	12.4	11.8	11.4	3.8	3.6	3.5
Roanoke .....	113.2	110.2	110.7	5.2	4.5	4.5	4.6	4.1	4.1
<b>WASHINGTON</b> .....	1,777.5	1,886.2	1,882.1	115.4	125.9	117.4	6.5	6.7	6.2
Seattle—Everett .....	763.7	818.1	825.9	42.8	45.3	42.7	5.6	5.5	5.2
Spokane .....	143.0	148.7	146.5	8.2	9.8	8.9	5.7	6.6	6.1
Tacoma .....	165.3	173.6	175.7	12.3	13.1	12.0	7.5	7.6	6.8
<b>WEST VIRGINIA</b> .....	736.3	734.5	743.2	45.2	42.9	47.2	6.1	5.8	6.4
Charleston .....	120.7	120.4	119.3	4.8	5.5	4.9	4.0	4.6	4.1
Huntington—Ashland <sup>1</sup> .....	120.1	117.7	119.8	8.7	6.2	7.1	7.2	5.2	6.0
Parkersburg—Marietta <sup>1</sup> .....	67.1	69.2	69.5	3.5	3.8	4.1	5.2	5.4	5.8
Wheeling <sup>1</sup> .....	77.8	78.8	78.1	4.6	4.5	4.4	5.9	5.7	5.7
<b>WISCONSIN</b> .....	2,354.5	2,396.1	2,414.4	121.0	100.3	116.7	5.1	4.2	4.8
Appleton—Oshkosh .....	149.2	151.2	152.1	7.4	5.9	6.3	5.0	3.9	4.1
Eau Claire .....	51.7	54.9	55.0	3.5	2.8	3.1	6.8	6.1	5.7
Green Bay .....	88.9	89.6	91.1	4.5	4.8	5.8	5.1	5.4	6.0
Kenosha .....	61.1	61.1	60.1	5.1	2.5	3.1	8.3	4.1	5.1
La Crosse .....	44.4	46.5	46.6	2.4	1.9	2.2	5.4	4.1	4.8
Madison .....	177.0	178.9	179.5	7.0	6.2	7.0	4.0	3.5	3.9
Milwaukee .....	718.9	738.0	742.6	31.8	29.1	35.5	4.4	3.9	4.8
Racine .....	91.2	91.3	90.9	5.9	3.5	4.2	6.5	3.9	4.7
<b>WYOMING</b> .....	218.9	236.8	237.1	6.7	6.0	5.7	3.1	2.5	2.4

<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.

# Explanatory Notes

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

## Introduction

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

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

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

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

### Employment

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

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

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

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

### Hours of work

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

## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

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

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

## COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

## Household data

### (A tables)

#### COLLECTION AND COVERAGE

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

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

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

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

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

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

## CONCEPTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## HISTORIC COMPARABILITY

### Raised lower age limit

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

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

### Noncomparability of labor force levels

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

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

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

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

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

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

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

#### Changes in occupational classification system

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

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

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

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

#### Changes in sample design

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

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

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

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

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

be vacant or otherwise not eligible for interview.

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

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

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

## ESTIMATING METHODS

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

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

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

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

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

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

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

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

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

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

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

#### **Rounding of estimates**

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

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

#### **Reliability of the estimates**

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

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

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

Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program.

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

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

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



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

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

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

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

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

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

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

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

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
<i>(In thousands)</i>		
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, 15 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 1 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.

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

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

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

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

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

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

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



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

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

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

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

#### **Labor turnover**

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

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

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

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

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

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

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

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

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

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

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

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

#### **ESTIMATING METHODS**

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

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

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

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

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

See footnotes at end of table.

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

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

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

<sup>2</sup> The sample production-worker ratio, women-worker ratio, average weekly hours, average overtime hours, and average hourly earnings are modified by a wedging technique designed to com-

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

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

**Size and regional stratification**

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

**Benchmark adjustments**

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1977 levels. Normally, benchmark adjustments are made annually.

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

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted at levels between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1977 benchmark adjustment is shown in table K.

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

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

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

**THE SAMPLE**

**Design**

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of

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

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

#### Coverage

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

#### Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a "link relative" technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table N presents the average percent revisions (based on the 1967 SIC) of the

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

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

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

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

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

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

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

The hours and earnings estimates for cells are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. The hours and earnings estimates, however, are subject to sampling errors which may be expressed as relative errors of the estimates. (A relative error is a standard error expressed as a percent of the estimate.) Relative errors (based on the 1967 SIC) for major industries are presented in table N and for individual industries with the specified number of employees in table O. The chances are about 2 out of 3 that the hours and earnings estimates from the sample would differ by a smaller percentage than the relative error

from the averages that would have been obtained from a complete census.

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

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

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

Approximations of the root-mean-square errors (based on the experience of the last 6 years and the 1967 SIC) of differences between final estimates and benchmarks are presented in table O.

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table P presents root-mean-square errors of the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are

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

[In percent]

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## STATISTICS FOR STATES AND AREAS

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

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

## PRODUCTIVITY DATA

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

### Definition

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

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

*Compensation per hour* includes wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. The data also include an estimate of wages, salaries, and supplementary payment for the self-employed, except for 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 May 1978. Seasonal factors to be used for current adjustment appear in the October 1978 issue of *Employment and Earnings*.

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



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