

Employment and Earnings

December 1980



U.S. Department of Labor
Bureau of Labor Statistics

Vol. 27 No. 12





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 Monthly 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 \$22 domestic, and \$27.50 foreign. Single copy \$2.75. Annual supplement \$3.25. Prices are subject to change by the U.S. Government Printing Office.

Communications on editorial matters should be addressed to: Editors, Employment and Earnings, Bureau of Labor Statistics, Washington, D.C. 20212. Inquiries regarding the text and *Household Data* should be addressed to: Attention of Gloria P. Green, or phone: (202) 523-1944. Inquiries relating to *Establishment Data* and all other tables should be addressed to: Attention of Gloria P. Goings, or phone: (202) 523-1487. Send correspondence on circulation and subscription matters (including address changes) to the Superintendent of Documents.

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

Unless specifically identified as copyright, material in this publication is in the public domain and may, with appropriate credit, be reproduced without permission.

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

Establishment data

National annual averages:	
Industry divisions (preliminary)	Jan.
Industry detail (final)	Mar.
Women employment detail (final)	Mar.
National data adjusted to new benchmarks	July ¹
Revised historical national data adjusted to new benchmarks	Supplement ²
Revised seasonally adjusted series	July ³
State and area annual averages	May
Area definitions	May

¹ The issue that introduces new benchmark varies. The July 1980 issue introduced March 1979 benchmarks.

² Month of publication of annual supplement varies. The latest supplement was published in September 1980.

³ Issue varies. Latest revised data introduced July 1980.

Employment and Earnings

Vol. 27 No. 12 December 1980

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

Contents

	<i>Page</i>
List of statistical tables	2
Employment and unemployment developments, October 1980 . . .	4
Charts	6
Statistical tables:	
Not seasonally adjusted—	
Household data	20
Establishment data:	
Employment	49
Hours and earnings	81
Labor turnover	112
State and area unemployment data	121
Seasonally adjusted series—	
Household data	42
Establishment data:	
Employment	66
Hours and earnings	102
Productivity	104
Labor turnover	117
Explanatory notes	127

MONTHLY HOUSEHOLD DATA

Page

Employment Status

A- 1.	Employment status of the noninstitutional population 16 years and over, 1947 to date	18
A- 2.	Employment status of the noninstitutional population 16 years and over by sex, 1972 to date	19
A- 3.	Employment status of the noninstitutional population by sex, age, and race	20
A- 4.	Labor force by sex, age, and race	22
A- 5.	Employment status of black workers by sex and age	24
A- 6.	Employment status of the noninstitutional population by race, sex, and age	25
A- 7.	Employment status of the noninstitutional population 16 to 21 years of age by major activity, sex, and race	26
A- 8.	Full- and part-time status of the civilian labor force by sex, age, and race	27
A- 9.	Employment status of the noninstitutional population by family relationship	28

Characteristics of the Unemployed

A-10.	Unemployed persons by marital status, race, age, and sex	28
A-11.	Unemployed persons by occupation and sex	29
A-12.	Unemployed persons by industry and sex	29
A-13.	Unemployed persons by reason for unemployment, sex, age, and race	30
A-14.	Unemployed persons by reason for unemployment, sex, age, and duration	30
A-15.	Unemployed jobseekers by sex, age, race, and jobsearch methods used	31
A-16.	Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used	31
A-17.	Unemployed persons by duration of unemployment	32
A-18.	Unemployed persons by sex, age, race, marital status, and duration of unemployment	32
A-19.	Unemployed persons by occupation, industry, and duration of unemployment	33

Characteristics of the Employed

A-20.	Employed persons by industry, age, and sex	33
A-21.	Employed persons by occupation, sex, and age	34
A-22.	Employed persons by occupation, race, and sex	35
A-23.	Employed persons by age, sex, and class of worker	36
A-24.	Employed persons by industry and occupation	36
A-25.	Employed persons with a job but not at work by reason, sex, and pay status	37
A-26.	Persons at work by hours of work and industry	37
A-27.	Persons at work 1 to 34 hours by reason for working less than 35 hours and usual status	38
A-28.	Nonagricultural workers by industry and full- or part-time status	38
A-29.	Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status	39
A-30.	Persons at work in nonfarm occupations by sex and full- or part-time status	40

Characteristics of 14 and 15 year-olds

A-31.	Employment status of 14- and 15-year-olds by sex and race	41
A-32.	Employed 14- and 15-year-olds by class of worker, occupation, and sex	41

Seasonally Adjusted Employment and Unemployment Data

A-33.	Employment status of the noninstitutional population by sex and age, seasonally adjusted	42
A-34.	Full- and part-time status of the civilian labor force, seasonally adjusted	43
A-35.	Employment status by race, sex, and age, seasonally adjusted	43
A-36.	Major unemployment indicators, seasonally adjusted	44
A-37.	Unemployed persons by duration of unemployment, seasonally adjusted	44
A-38.	Unemployment rates by sex and age, seasonally adjusted	45
A-39.	Unemployed persons by reason for unemployment, seasonally adjusted	45
A-40.	Employed persons by sex and age, seasonally adjusted	46
A-41.	Unemployed persons by sex and age, seasonally adjusted	46
A-42.	Employed persons by selected social and economic categories, seasonally adjusted	47

Characteristics of Vietnam-Era Veterans and Nonveterans

A-43.	Employment status of male Vietnam-era veterans and nonveterans by age	48
-------	---	----

MONTHLY ESTABLISHMENT DATA

Page

Employment—National

B- 1.	Employees on nonagricultural payrolls by industry division, 1920 to date	49
B- 2.	Employees on nonagricultural payrolls by industry	50
B- 3.	Women employees on nonagricultural payrolls by industry	59
B- 4.	Employees on nonagricultural payrolls by industry, seasonally adjusted	66
B- 5.	Women employees on nonagricultural payrolls by industry, seasonally adjusted	67
B- 6.	Production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted	68
B- 7.	Indexes of diffusion: Percent of industries in which employment increased	69

Employment—State and Area

B- 8.	Employees on nonagricultural payrolls for States and selected areas by industry division	70
-------	--	----

Hours and Earnings—National

C- 1.	Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by industry division, 1959 to date	81
C- 2.	Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls by industry	82
C- 3.	Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government	98
C- 4.	Average hourly earnings excluding overtime of production workers on manufacturing payrolls by industry	98
C- 5.	Gross and spendable average weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, in current and 1967 dollars	99
C- 6.	Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers on private nonagricultural payrolls	100
C- 7.	Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted	102
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	103
C- 9.	Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted	104
C-10.	Hours of wage and salary workers in nonagricultural establishments by industry division	104
C-11.	Indexes of output and compensation per hour, unit costs, and prices, private business sector, seasonally adjusted	105
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	106

Hours and Earnings—State and Area

C-13.	Gross hours and earnings of production workers on manufacturing payrolls by State and selected areas	107
-------	--	-----

Labor Turnover—National

D- 1.	Labor turnover rates in manufacturing, 1970 to date	112
D- 2.	Labor turnover rates by industry	113
D- 3.	Labor turnover rates in manufacturing, 1970 to date, seasonally adjusted	117

Labor Turnover—State and Area

D- 4.	Labor turnover rates in manufacturing for selected States and areas	118
-------	---	-----

MONTHLY STATE AND AREA UNEMPLOYMENT DATA

E- 1.	Labor force and unemployment by State and selected metropolitan areas	121
-------	---	-----

Employment and Unemployment Developments, November 1980

Employment rose in November, and unemployment was about unchanged. The unemployment rate was 7.5 percent, little different from the rates of the prior 3 months.

Total employment—as measured by the monthly survey of households—was up by 220,000 over the month to 97.4 million. The increase was concentrated among adult women, whose employment had declined in the prior 2 months.

Nonfarm payroll employment—as measured by the monthly survey of establishments—advanced by 270,000 in November to 90.9 million. Much of the growth took place in manufacturing jobs, which increased for the fourth month in a row.

Unemployment

Both the number of unemployed workers in November, 7.9 million, and the overall unemployment rate, 7.5 percent, were about unchanged from their October levels and have shown little movement since August. These levels represented, however, a slight improvement from the May to July period. The number of unemployed persons in November was 1.7 million higher than a year earlier. (See table A-33.)

While the number of jobless workers on layoff declined by about 330,000 over the month, there was an increase of 230,000 in the number whose jobs had been terminated for other reasons. Also, 150,000 fewer labor force reentrants were looking for work. (See table A-39.)

Unemployment rates for most major worker groups in November were about the same as in the previous month—adult men (6.3 percent), adult women (6.7 percent), teenagers (18.7 percent), whites (6.6 percent), and blacks (14.0 percent). After rising in October, the jobless rate for persons seeking part-time jobs declined in November; the rate for those seeking full-time work has remained steady for several months. The unemployment rate for workers in manufacturing industries declined by half a percentage point to 8.8 percent. However, the jobless rate for workers in construction was about unchanged over the month, after showing improvement in September and October. The rate for

workers in wholesale and retail trade increased 0.6 point to 8.3 percent. (See table A-36.)

Total employment and the labor force

Total employment increased by 220,000 to 97.4 million in November. This total was still about 560,000 below the February peak. The employment-population ratio, at 58.3 percent, has been about unchanged since July.

Most of the November gain took place among adult women, whose employment rose by about 200,000, following two consecutive monthly declines. Over the year, employment of adult women has risen by 700,000, while that for adult men and teenagers has fallen by 290,000 and 560,000, respectively. (See table A-33.)

The civilian labor force participation rate, at 63.8 percent, was identical to those of the prior 2 months. At 105.3 million, the labor force was 1.6 million above a year earlier but has shown little growth in the past 6 months. Adult women accounted for three-quarters of the over-the-year increase.

Industry payroll employment

The number of employees on nonagricultural payrolls rose by 270,000 to 90.9 million in November, the fourth consecutive monthly advance. Since July, the number of payroll jobs has increased by more than 1 million but was still 300,000 below the February peak. (See table B-4.)

Manufacturing and construction continued to show improvement in November. Factory employment rose by 105,000, with increases widespread throughout the durable and nondurable goods sectors. In durable goods, the largest gains were registered in primary metals, electric and electronic equipment, and transportation equipment. In nondurables, apparel was the biggest gainer. Despite recent growth, the number of manufacturing jobs was nearly 900,000 below the peak registered in June 1979.

Construction employment rose by 35,000 in November. Although construction jobs have grown steadily since July, the number was 275,000 short of the January peak. An employment increase of about 15,000

in mining was accounted for by the settlement of a labor-management dispute.

Employment growth continued in the service-producing sector, with a November gain of 115,000. Most of this increase occurred in the services industry, which has risen by 330,000 jobs since June.

Hours of work

The average workweek for production or nonsupervisory workers on private nonfarm payrolls edged up 0.1 hour to 35.3 hours in November. Weekly hours were up 0.4 hour from July but were still 0.4 hour below December's pre-recession high. The manufacturing workweek edged up 0.1 hour over the month and was 0.7 hour above the July level. Factory overtime also rose 0.1 hour in November. (See table C-7.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls rose 0.6 percent in November to 125.1 (1967 = 100), following a 0.4 percent increase in October. The index has increased by 2.6 percent since July but was still 1.6 percent below its January peak. The manufacturing index was up 1.0 percent over the month. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls rose 1.2 percent over the month and 8.8 percent over the year (seasonally adjusted). Average weekly earnings were up 1.5 percent from October and 7.9 percent from November 1979.

Before adjustment for seasonality, average hourly earnings rose by 5 cents over the month to \$6.91 and 57 cents over the year. Average weekly earnings were \$243.92, up \$1.76 over the month and \$18.22 from a year earlier. (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 260.3 (1967 = 100) in November, 1.0 percent higher than in October. The Index was 9.7 percent above November a year ago. In dollars of constant purchasing power, the Index decreased 2.6 percent during the 12-month period ended in October. (See table C-9.)

CHARTS

	<i>Page</i>
1. Labor force and employment, 1961-80	6
2. Major unemployment indicators, 1961-80	7
3. Civilian labor force participation rates by sex and age, 1961-80	7
4. Total employment by sex and age, 1961-80	8
5. Employment-population ratios by sex and age, 1961-80	9
6. Payroll employment in goods-and service-producing industries, 1961-80	9
7. Nonagricultural payroll employment by industry, 1961-80	10
8. Persons at work full and part time in nonagricultural industries, 1961-80	11
9. Employment in nonfarm occupations, 1961-80	12
10. Unemployment rates by sex and age, 1961-80	13
11. Unemployment rates by race, 1961-80	13
12. Unemployment rates by major occupational groups, 1961-80	14
13. Duration of unemployment, 1961-80	15
14. Average weekly hours in nonagricultural industries, 1961-80	16
15. Average weekly earnings in nonagricultural industries, 1961-80	16
16. Total private gross and spendable weekly earnings, 1961-80	17
17. Labor turnover rates in manufacturing, 1961-80	17

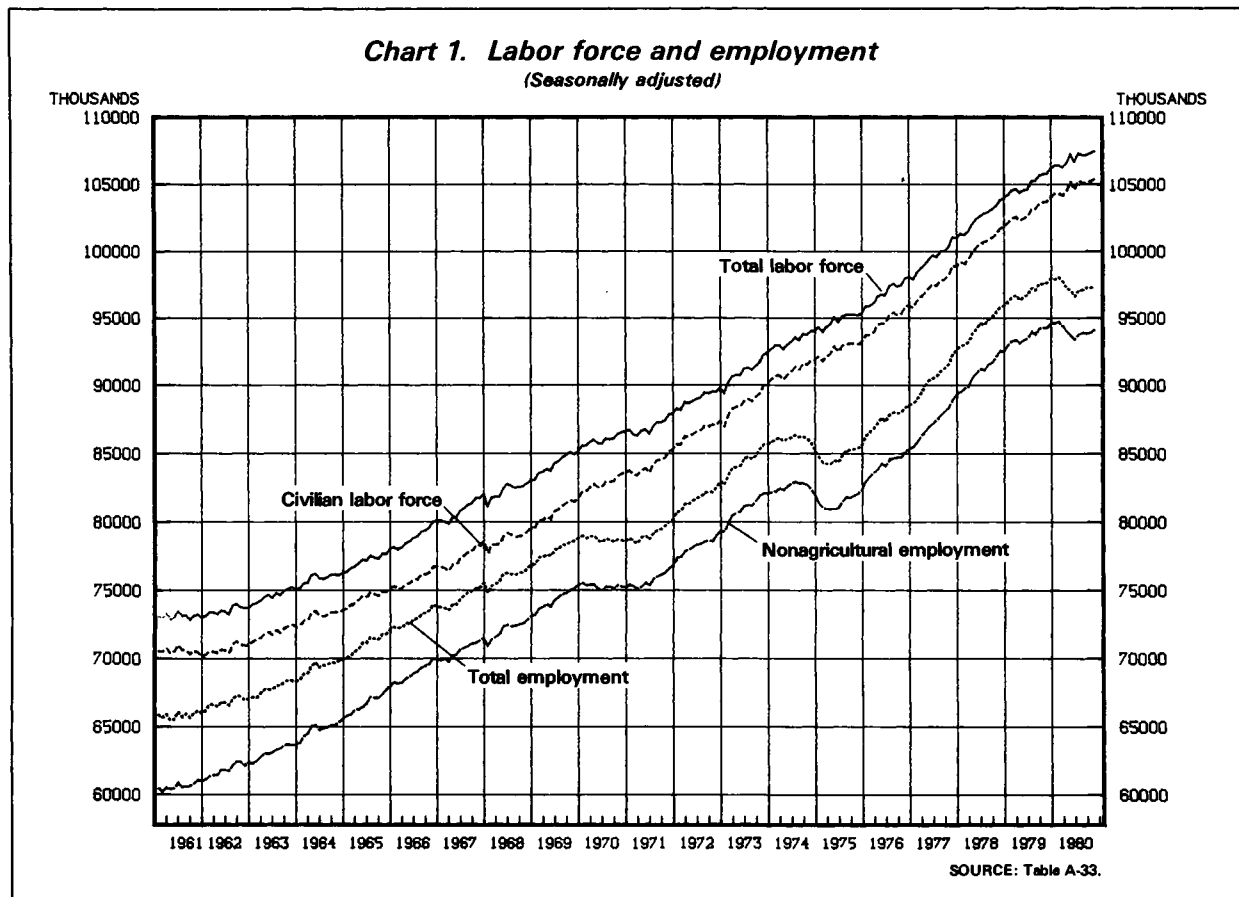


Chart 2. Major unemployment indicators
(Seasonally adjusted)

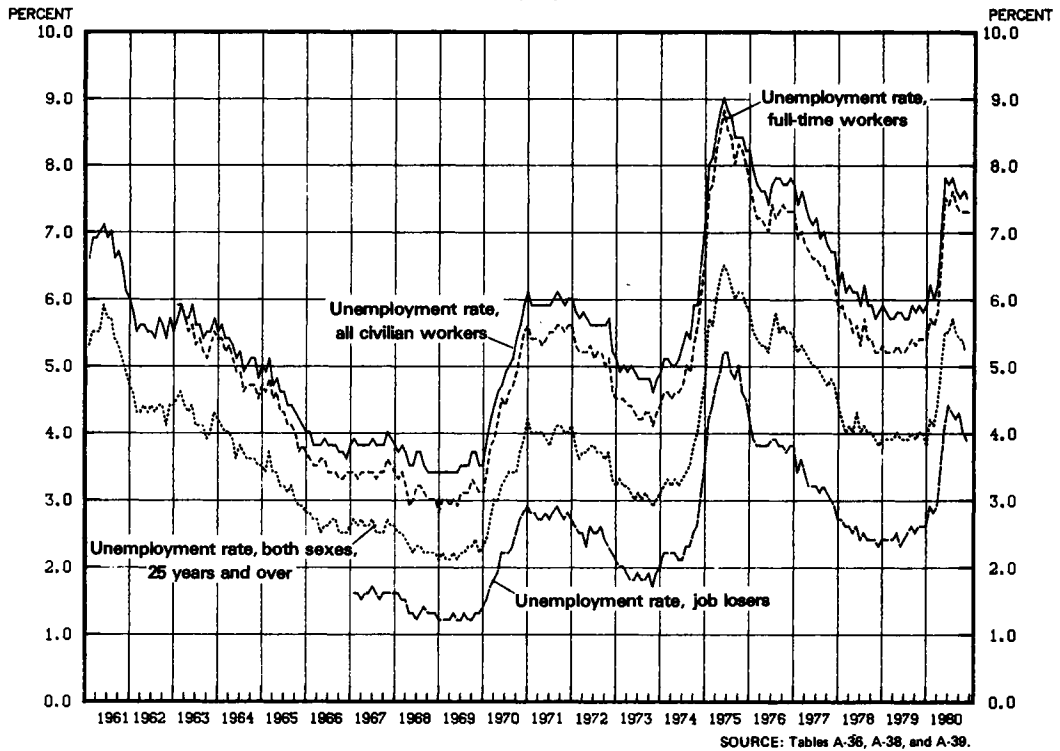


Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)

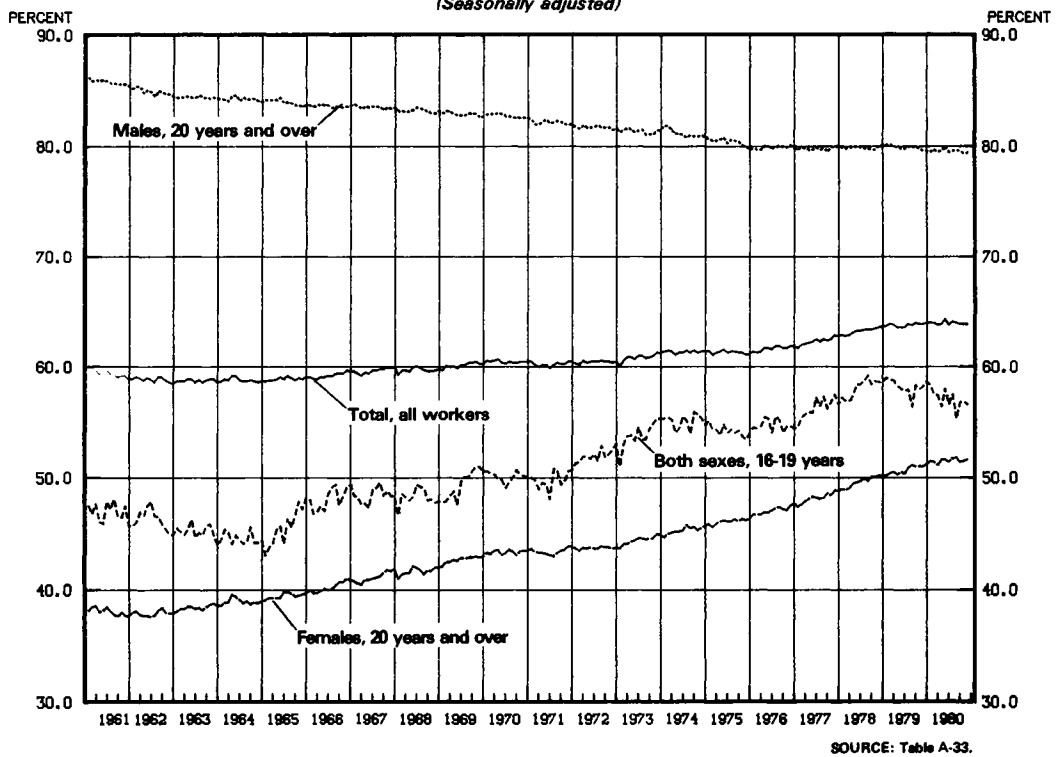
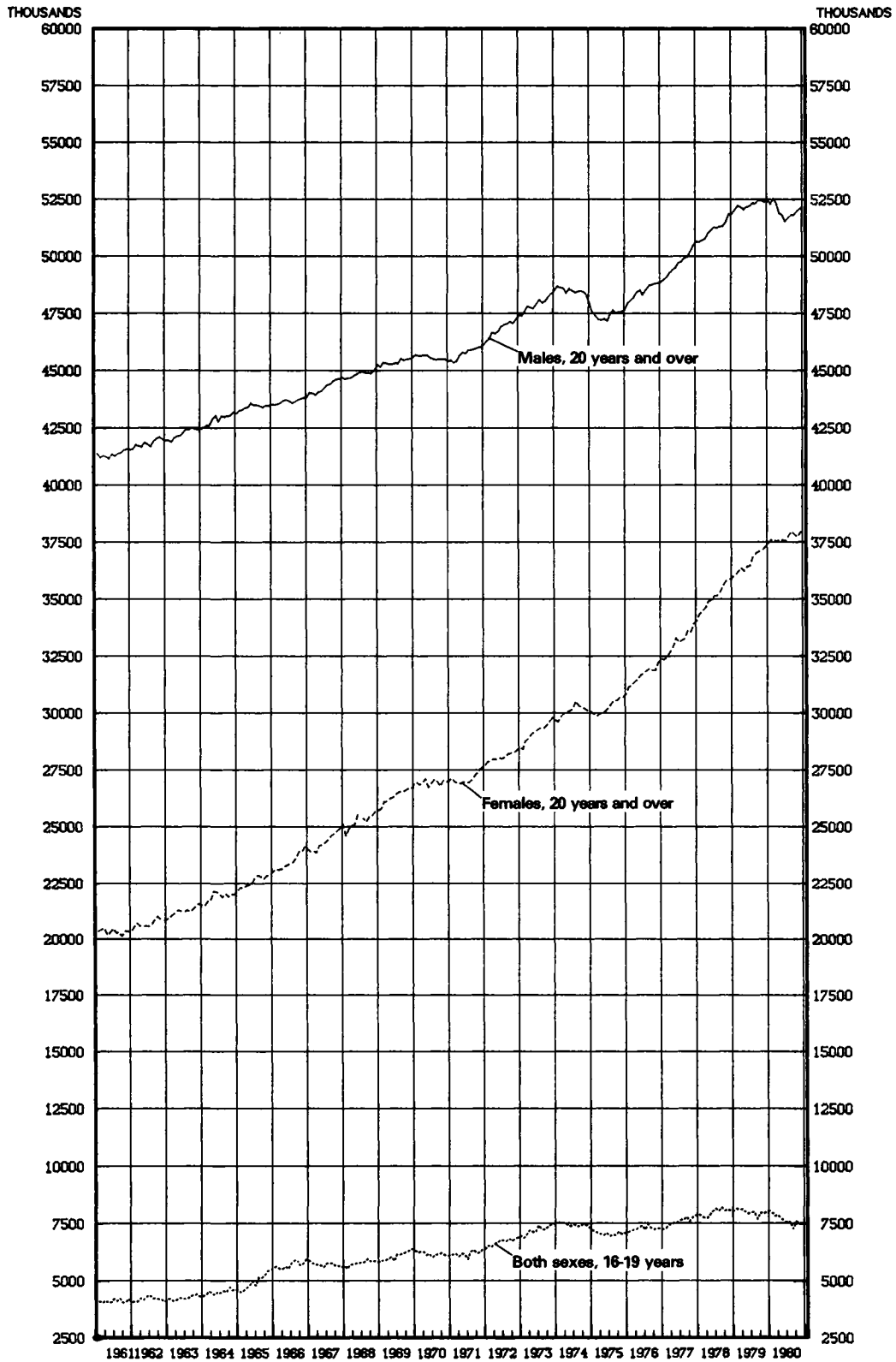


Chart 4. Total employment by sex and age

(Seasonally adjusted)



SOURCE: Table A-33.

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

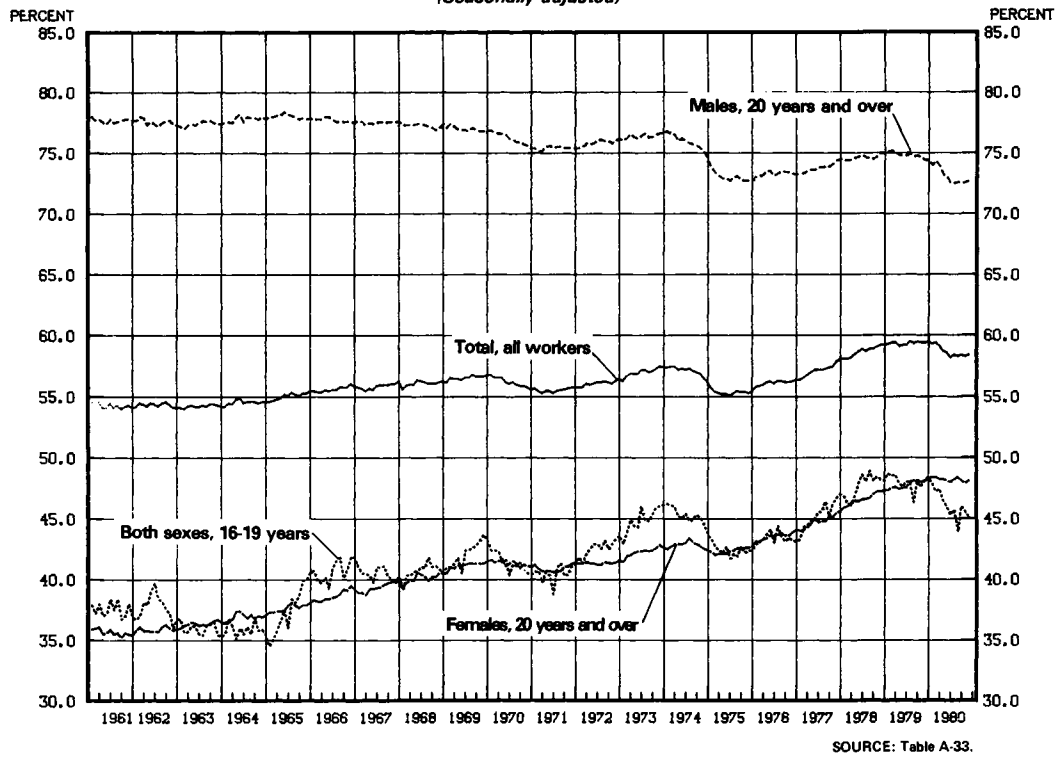


Chart 6. Payroll employment in goods-and service-producing industries
(Seasonally adjusted)

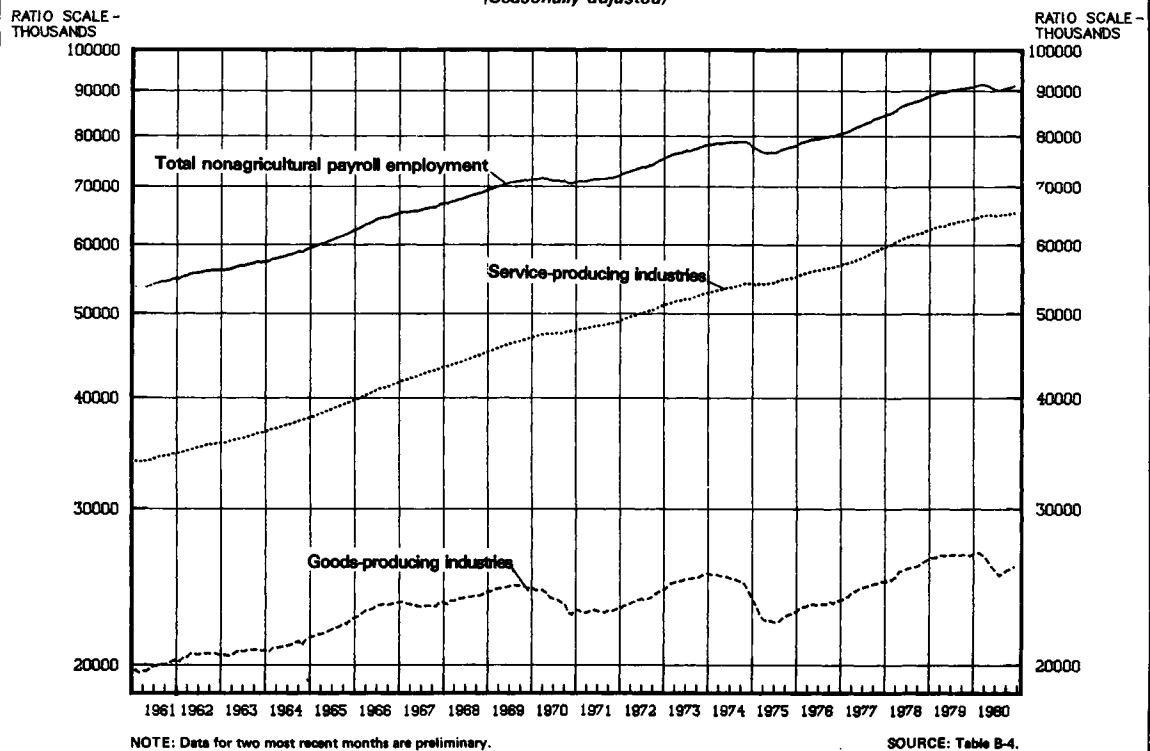
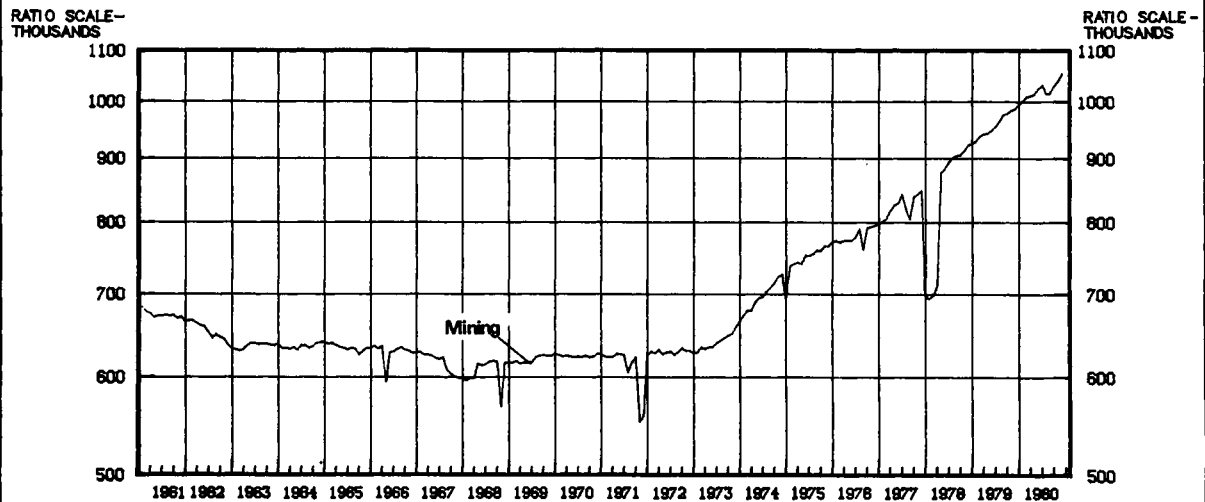
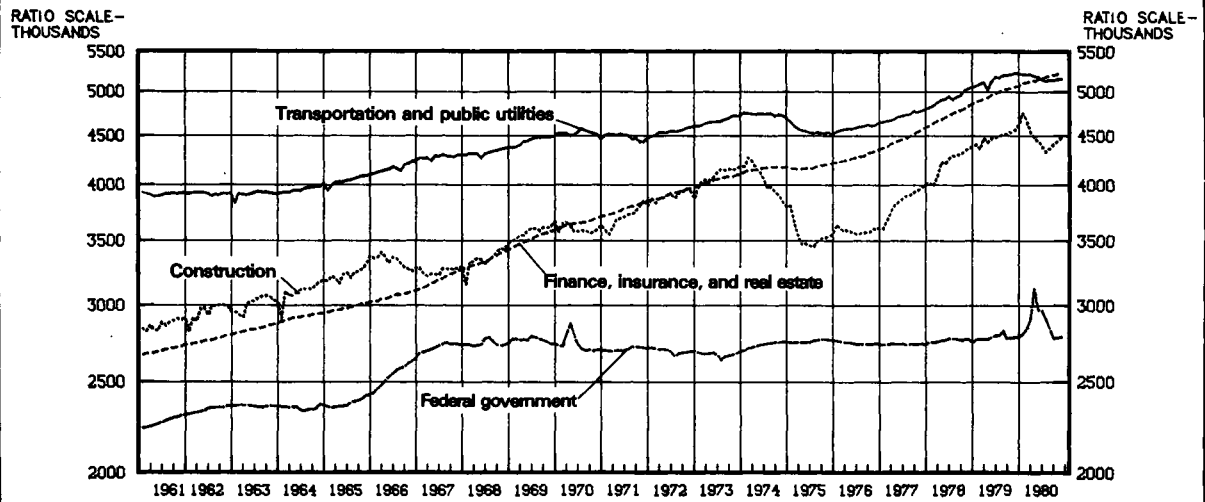
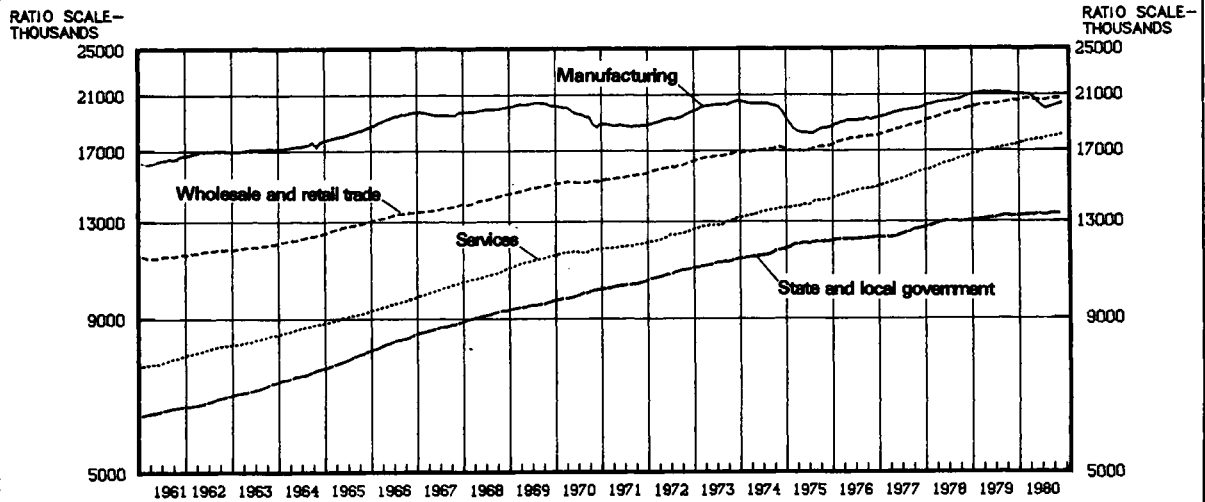


Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)



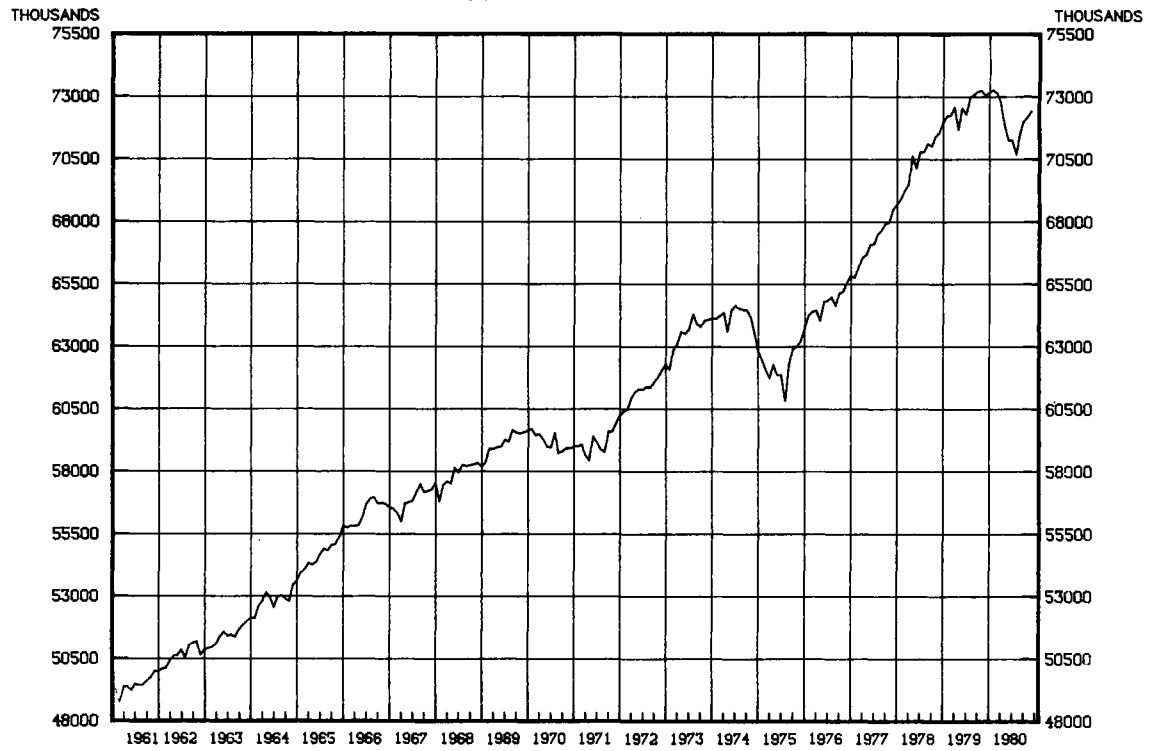
NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

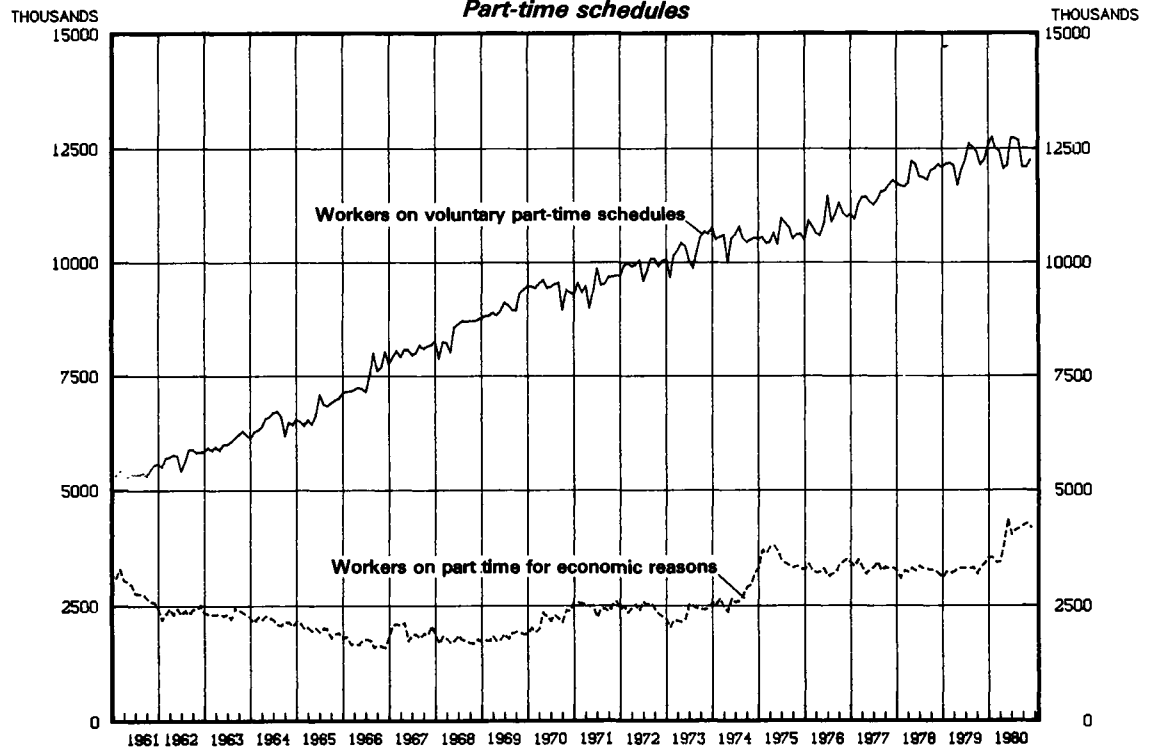
Chart 8. Persons at work full and part time in nonagricultural industries

(Seasonally adjusted)

Full-time schedules



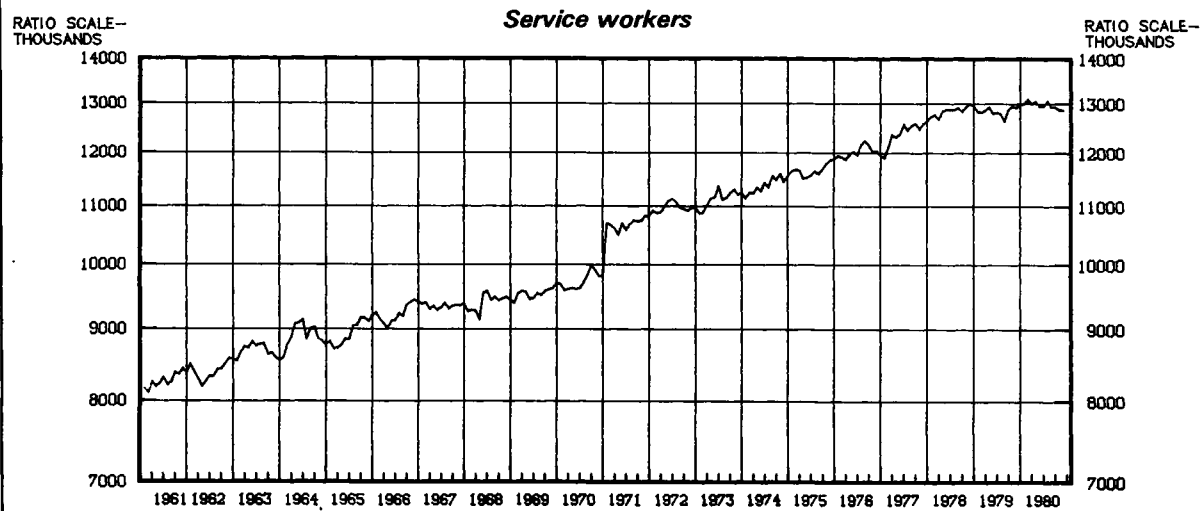
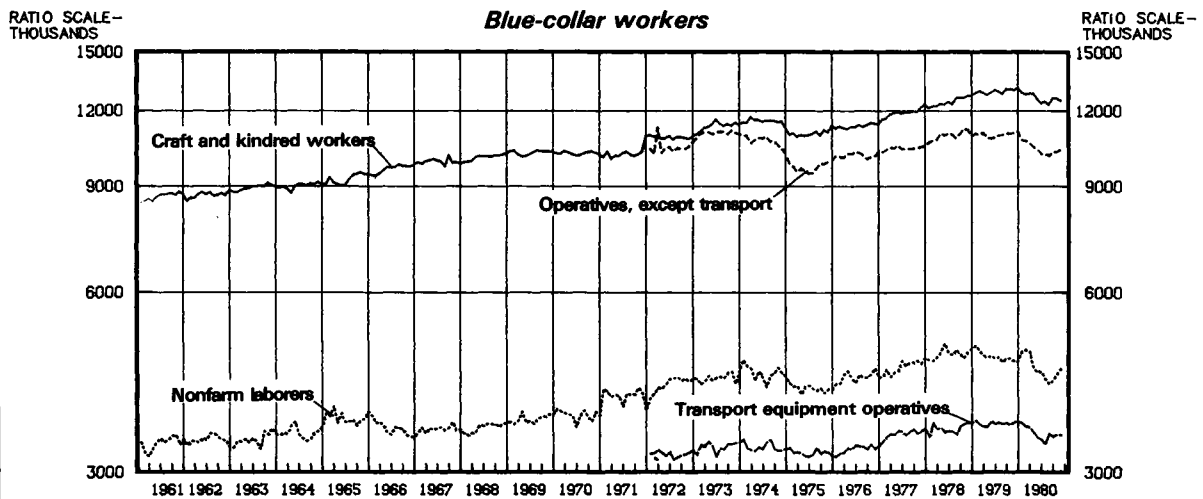
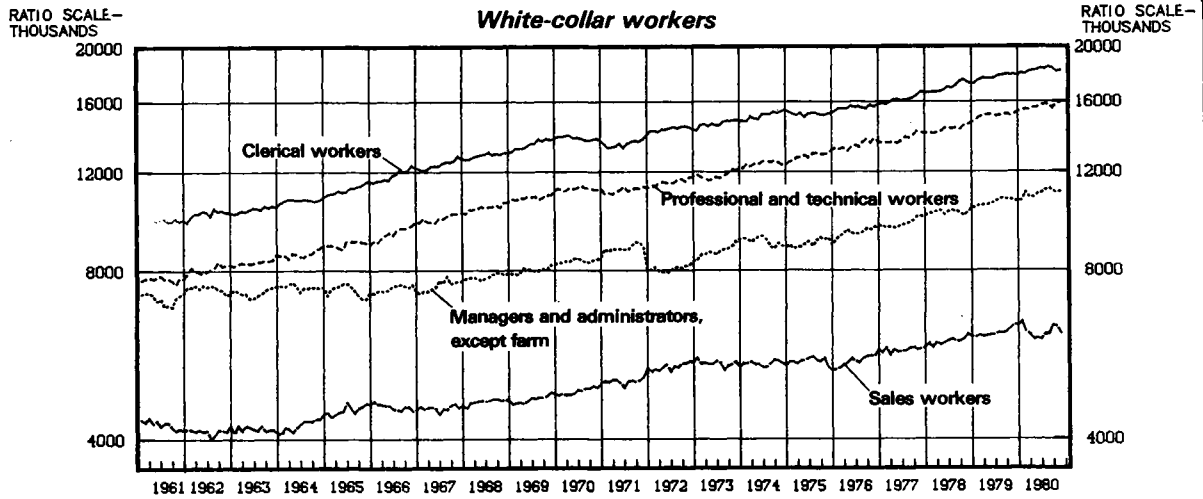
Part-time schedules



SOURCE: Table A-42.

Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)



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

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

(Seasonally adjusted)

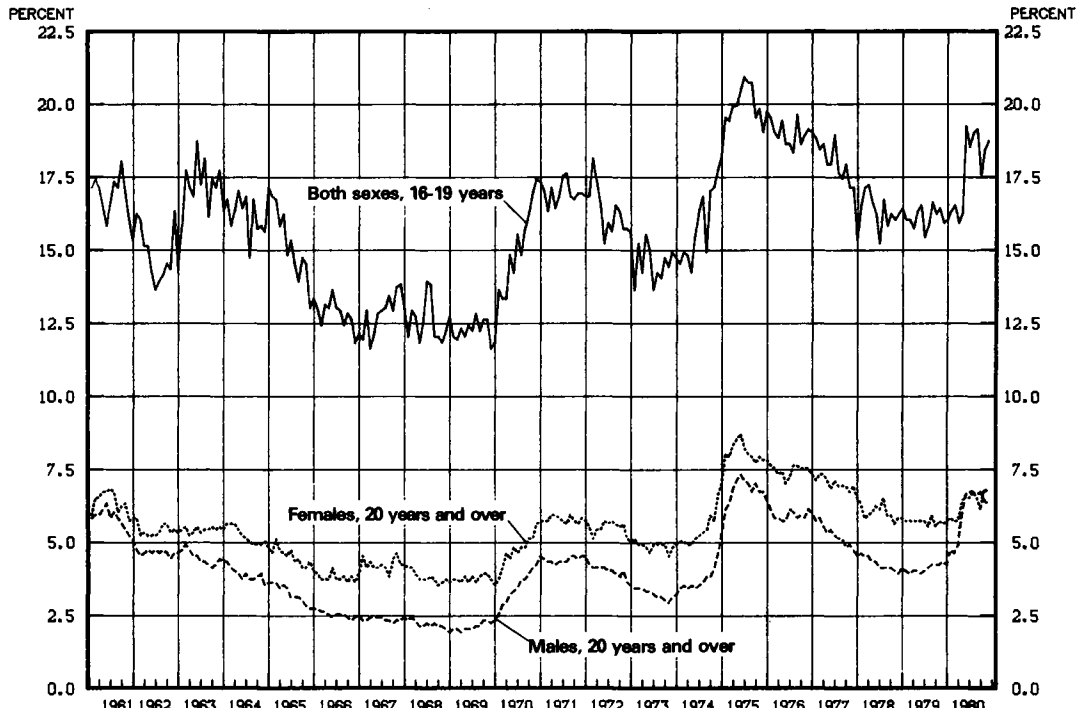
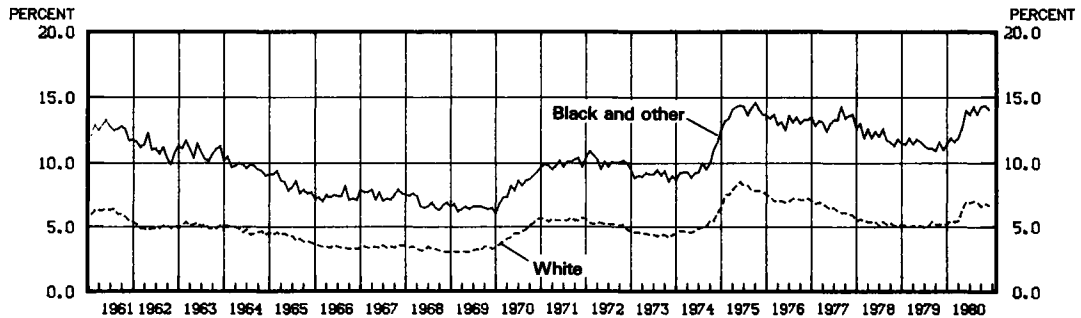
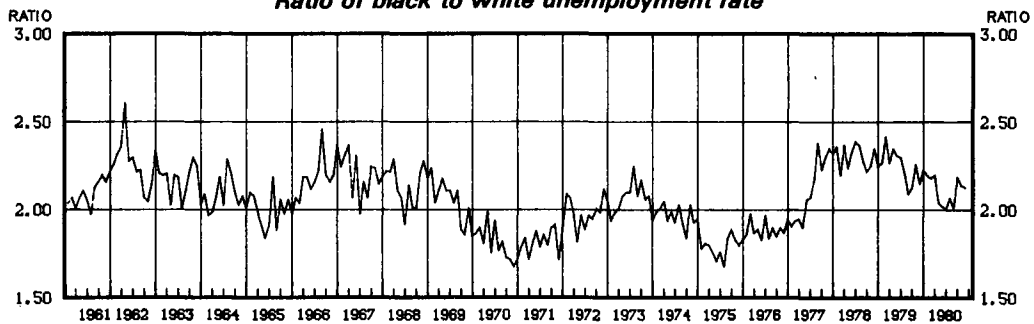


Chart 11. Unemployment rates by race

(Seasonally adjusted)

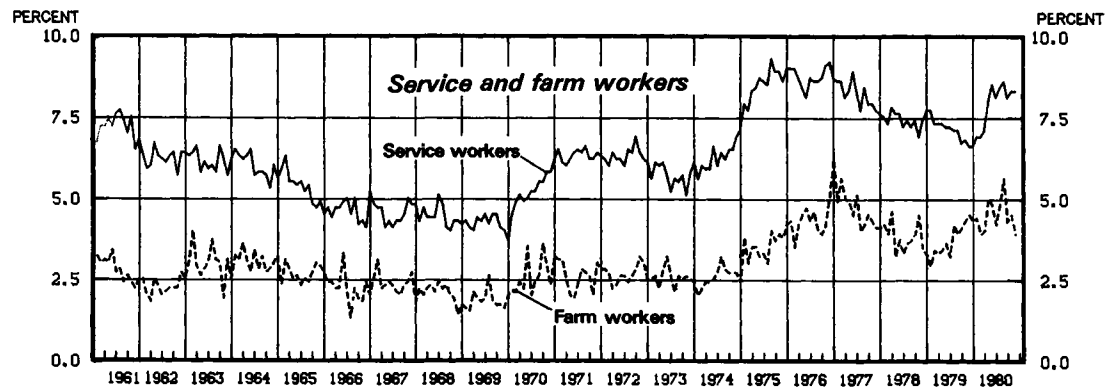
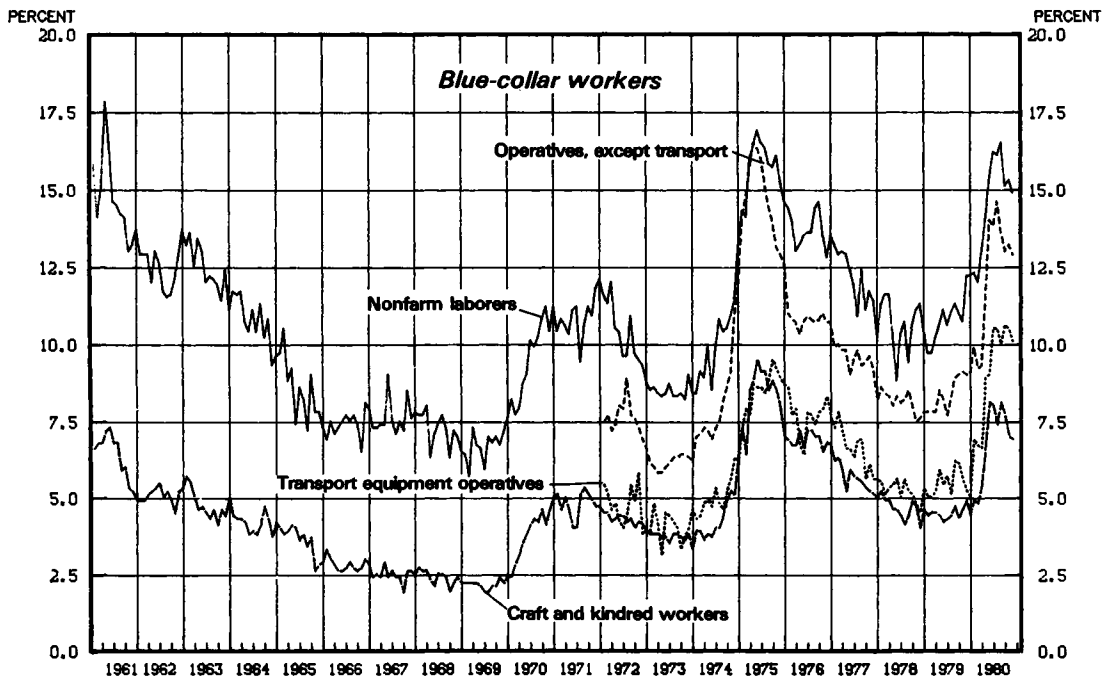
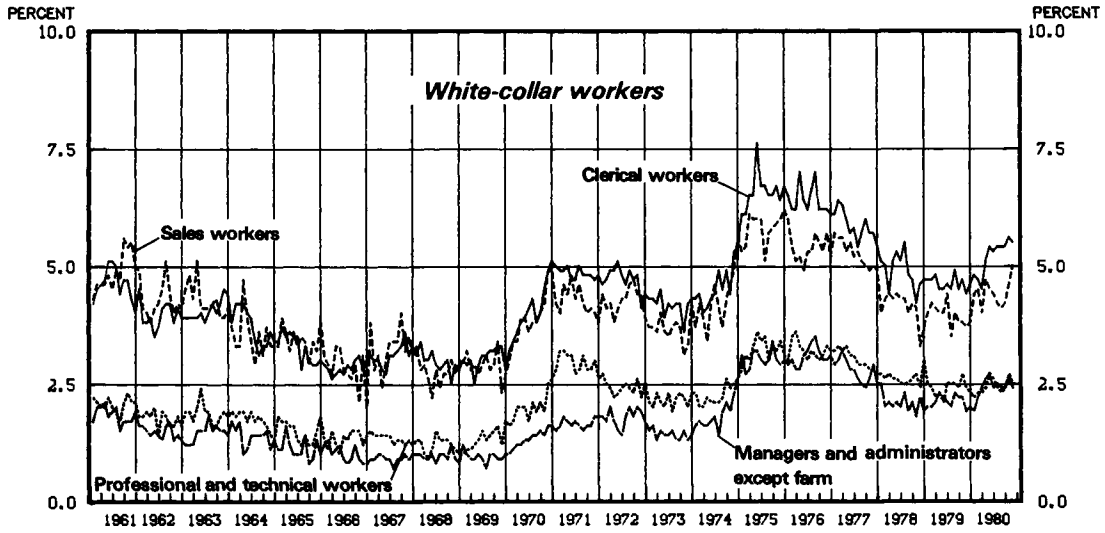


Ratio of black to white unemployment rate



SOURCE: Table A-36.

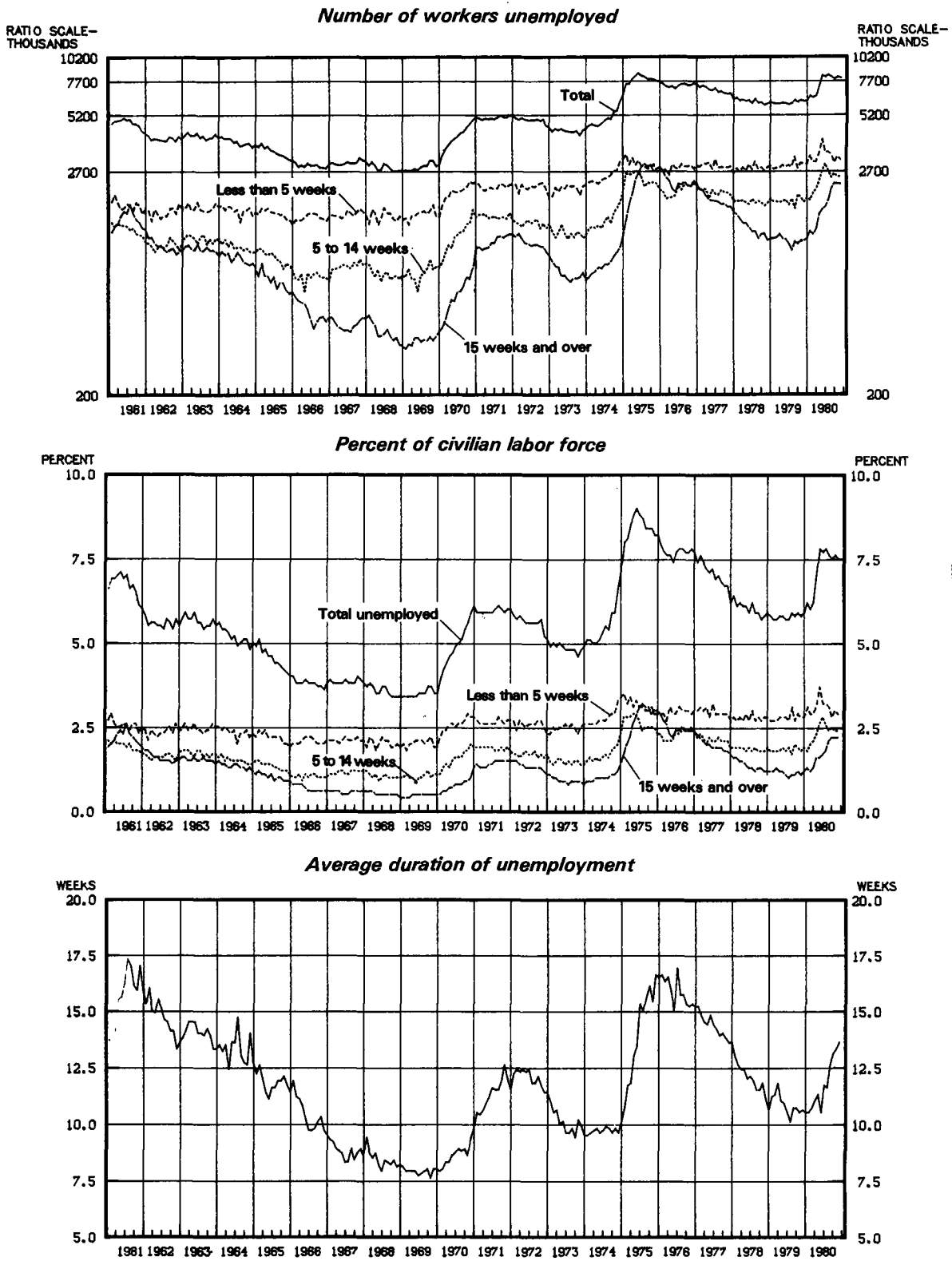
Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

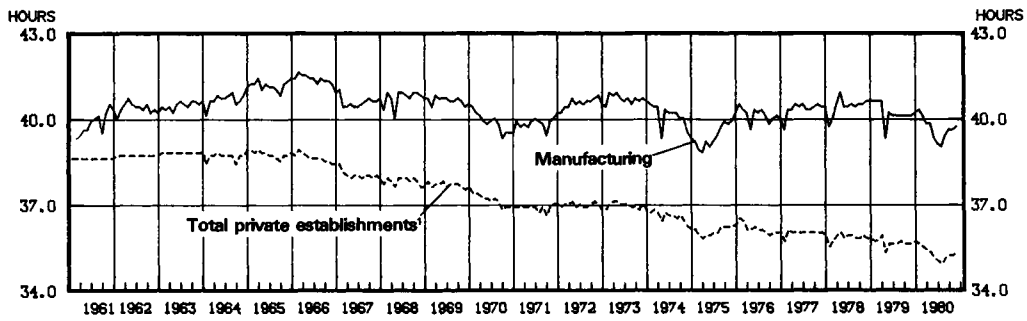
Chart 13. Duration of unemployment

(Seasonally adjusted)

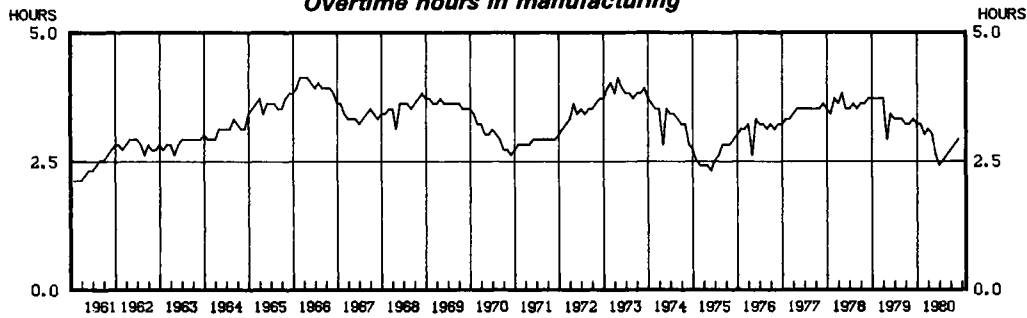


SOURCE: Table A-37.

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



Overtime hours in manufacturing

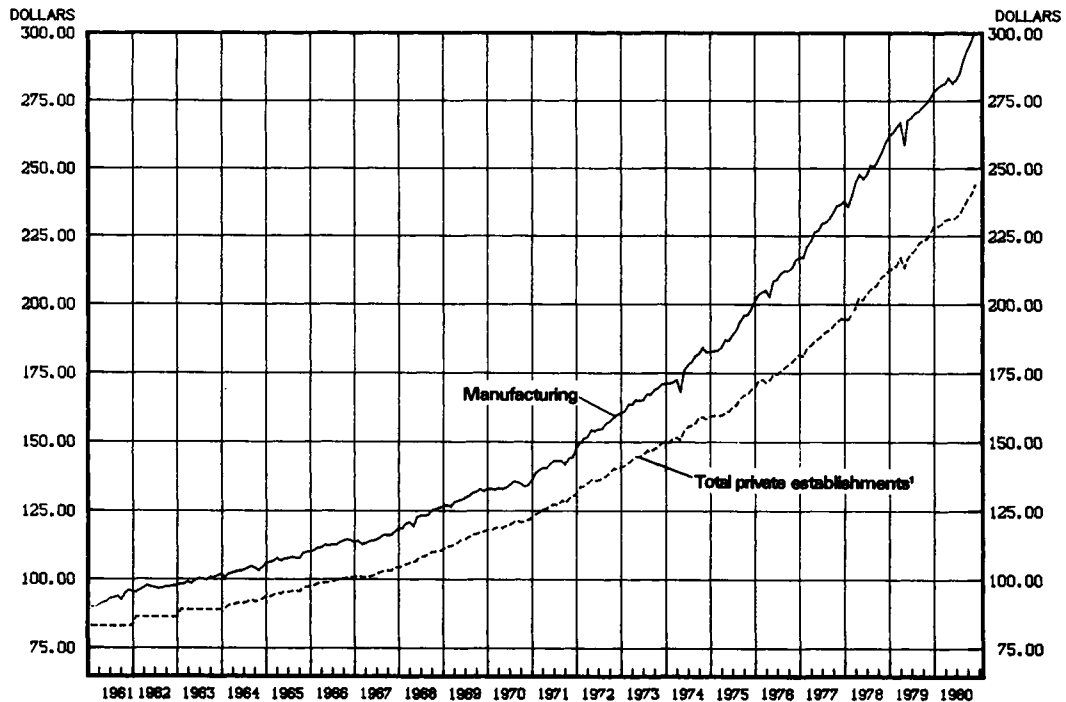


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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

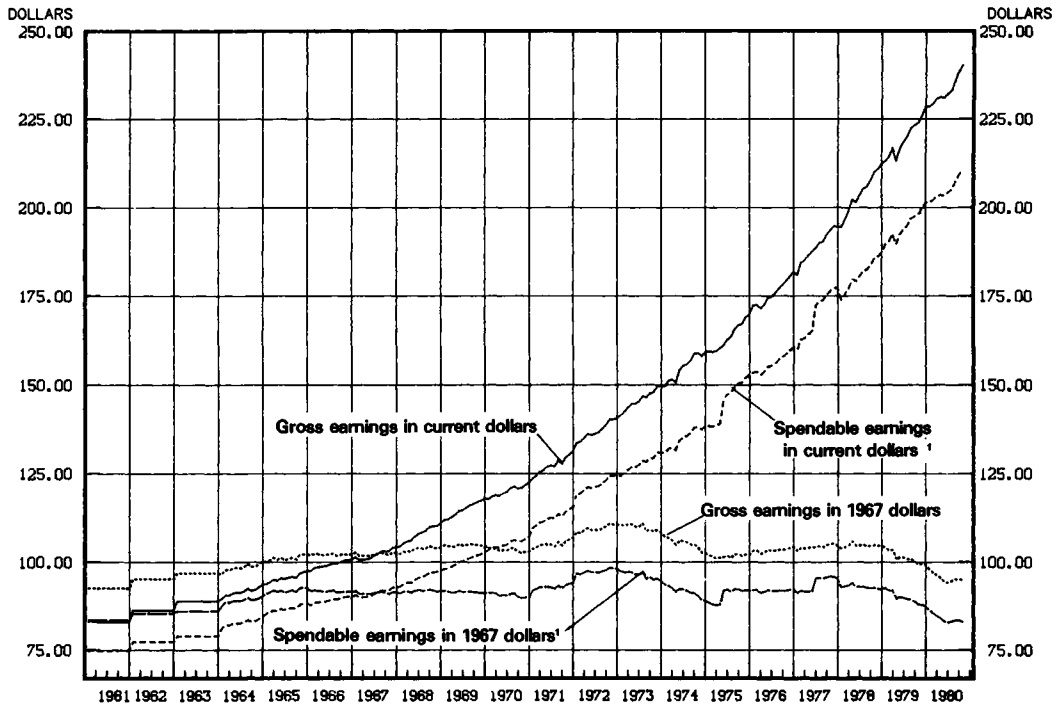


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

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

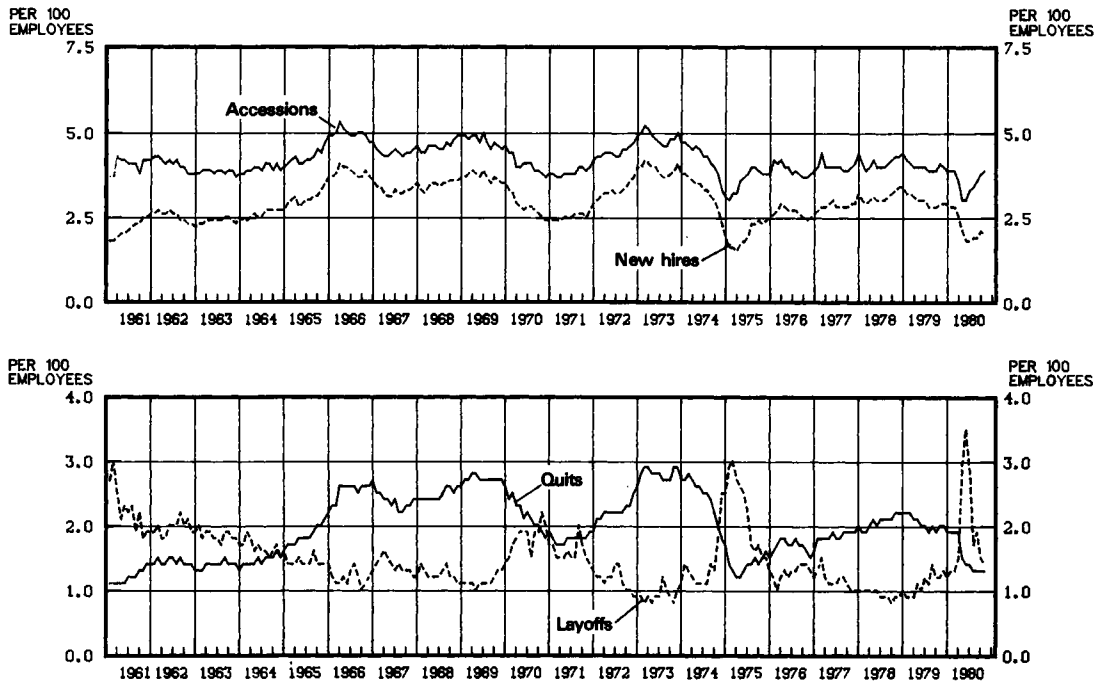


¹ Married worker with three dependents.

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	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.5	62,208	58,918	7,160	51,758	3,286	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,925	64,071	5,947	58,123	2,855	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.....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,459	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972.....	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973.....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 ¹	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
1979.....	163,620	104,996	64.2	102,908	96,945	3,297	93,648	5,963	5.8	58,623
Monthly data, seasonally adjusted ²										
1979:										
November.....	164,682	105,744	64.2	103,652	97,608	3,385	94,223	6,044	5.8	58,937
December.....	164,898	106,088	64.3	103,999	97,912	3,359	94,553	6,087	5.9	58,810
1980:										
January.....	165,101	106,310	64.4	104,226	97,804	3,270	94,534	6,425	6.2	58,791
February.....	165,298	106,346	64.3	104,260	97,953	3,326	94,626	6,307	6.0	58,951
March.....	165,506	106,184	64.2	104,094	97,656	3,358	94,298	6,438	6.2	59,322
April.....	165,693	106,511	64.3	104,419	97,154	3,242	93,912	7,265	7.0	59,182
May.....	165,886	107,230	64.6	105,142	96,988	3,379	93,609	8,154	7.8	58,657
June.....	166,105	106,634	64.2	104,542	96,537	3,191	93,346	8,006	7.7	58,471
July.....	166,391	107,302	64.5	105,203	96,996	3,257	93,739	8,207	7.8	58,091
August.....	166,578	107,139	64.3	105,025	97,006	3,180	93,826	8,015	7.6	58,439
September.....	166,789	107,155	64.2	105,034	97,207	3,442	93,765	7,827	7.5	58,633
October.....	167,005	107,301	64.3	105,180	97,176	3,324	93,851	8,005	7.6	58,704
November.....	167,201	107,439	64.3	105,320	97,396	3,342	94,054	7,924	7.5	58,762

¹ Not strictly comparable with prior years. For an explanation, see "Historic Comparability" under Household Data section of Explanatory Notes.

² 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, 1972 to date

(Numbers in thousands)

Sex, year, and month	Total noninsti- tutional popula- tion	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of popula- tion	Total	Employed			Unemployed		
					Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
MALES										
Annual averages										
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,021	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,252	57,349	79.4	55,166	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	3,586	6.2	16,514
1978 ¹	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979.....	78,397	61,466	78.4	59,517	56,499	2,645	53,854	3,016	5.1	16,931
Monthly data, seasonally adjusted ²										
1979:										
November..	78,906	61,652	78.1	59,704	56,580	2,716	53,864	3,124	5.2	17,255
December..	79,009	61,762	78.2	59,823	56,734	2,714	54,020	3,089	5.2	17,247
1980:										
January..	79,104	61,810	78.1	59,878	56,486	2,665	53,821	3,392	5.7	17,295
February..	79,196	61,951	78.2	60,014	56,732	2,702	54,029	3,283	5.5	17,245
March....	79,295	61,976	78.2	60,042	56,601	2,706	53,895	3,441	5.7	17,319
April.....	79,382	61,972	78.1	60,037	55,998	2,602	53,396	4,040	6.7	17,410
May.....	79,472	62,410	78.5	60,479	55,823	2,671	53,152	4,656	7.7	17,062
June.....	79,575	62,062	78.0	60,127	55,457	2,572	52,886	4,665	7.8	17,514
July.....	79,710	62,270	78.1	60,333	55,629	2,626	53,003	4,703	7.8	17,440
August...	79,798	62,133	77.9	60,182	55,551	2,583	52,967	4,632	7.7	17,665
September	79,897	62,341	78.0	60,383	55,738	2,750	52,988	4,645	7.7	17,556
October..	80,000	62,361	78.0	60,405	55,885	2,678	53,207	4,520	7.5	17,639
November..	80,091	62,395	77.9	60,441	55,956	2,721	53,235	4,486	7.4	17,696
FEMALES										
Annual averages										
1972 ¹	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,574	35,892	45.7	35,825	33,417	592	32,825	2,406	6.7	42,683
1975.....	79,954	37,087	46.4	36,958	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 ¹	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
1979.....	85,223	43,531	51.1	43,351	40,446	652	39,794	2,945	6.8	41,692
Monthly data, seasonally adjusted ²										
1979:										
November..	85,775	44,093	51.4	43,948	41,028	669	40,359	2,920	6.6	41,683
December..	85,889	44,326	51.6	44,176	41,178	645	40,533	2,998	6.8	41,563
1980:										
January..	85,997	44,501	51.7	44,352	41,318	605	40,713	3,034	6.8	41,495
February..	86,102	44,396	51.6	44,246	41,221	624	40,597	3,025	6.8	41,706
March....	86,211	44,209	51.3	44,052	41,054	651	40,403	2,997	6.8	42,002
April.....	86,311	44,538	51.6	44,381	41,156	640	40,516	3,225	7.3	41,773
May.....	86,414	44,819	51.9	44,663	41,165	708	40,457	3,498	7.8	41,595
June.....	86,530	44,573	51.5	44,416	41,079	619	40,460	3,337	7.5	41,957
July.....	86,681	45,031	51.9	44,870	41,367	631	40,736	3,503	7.8	41,650
August...	86,780	45,005	51.9	44,842	41,455	597	40,859	3,387	7.6	41,775
September	86,892	44,814	51.6	44,651	41,469	692	40,776	3,182	7.1	42,077
October..	87,006	44,941	51.7	44,776	41,291	647	40,644	3,485	7.8	42,065
November..	87,110	45,044	51.7	44,875	41,440	621	40,819	3,435	7.7	42,066

¹ Not strictly comparable with prior years. For an explanation, see "Historic Comparability" under Household Data section of Explanatory Notes.

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

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	November 1980										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	61,926	77.3	59,972	55,626	4,146	6.9	18,165	379	4,688	1,584	11,515
16 to 21 years	8,293	65.7	7,646	6,266	1,379	18.0	4,328	14	3,863	44	407
16 to 19 years	4,846	58.2	4,564	3,627	937	20.5	3,478	11	3,172	20	276
16 to 17 years	1,672	45.9	1,849	1,410	440	23.8	2,205	4	2,094	6	101
18 to 19 years	2,974	70.0	2,715	2,217	498	18.3	1,272	7	1,078	13	175
20 to 64 years	55,199	89.2	53,527	50,377	3,151	5.9	6,650	191	1,513	1,094	3,850
20 to 24 years	8,691	85.4	8,150	7,144	1,007	12.4	1,520	9	1,121	56	334
25 to 54 years	39,177	94.4	38,246	36,313	1,933	5.1	2,310	108	380	561	1,260
25 to 29 years	6,855	94.5	6,496	7,851	644	7.6	514	17	245	41	210
30 to 34 years	6,299	96.2	6,042	7,609	433	5.4	326	16	76	73	161
35 to 39 years	6,620	96.4	6,433	6,162	270	4.2	249	11	24	61	153
40 to 44 years	5,436	95.4	5,349	5,172	177	3.3	261	19	16	75	151
45 to 49 years	4,985	93.5	4,959	4,135	224	4.5	349	19	11	103	215
50 to 54 years	4,974	89.1	4,967	4,783	184	3.7	611	25	9	207	370
55 to 64 years	7,132	71.7	7,131	6,520	211	3.0	2,820	74	12	478	2,257
55 to 59 years	4,391	81.7	4,390	4,271	119	2.7	983	30	8	229	716
60 to 64 years	2,741	59.9	2,741	2,249	91	3.3	1,837	44	4	248	1,541
65 years and over	1,681	19.0	1,881	1,622	58	3.1	8,038	177	3	470	7,389
65 to 69 years	1,087	28.3	1,087	1,049	38	3.5	2,748	43	3	162	2,540
70 years and over	794	13.0	794	774	20	2.5	5,290	134	--	308	4,649
White											
16 years and over	54,912	78.1	53,358	50,127	3,271	6.1	15,429	295	3,786	1,290	10,058
16 to 21 years	7,217	67.6	6,729	5,657	1,072	15.9	3,457	12	3,125	39	281
16 to 19 years	4,255	60.7	4,043	3,291	752	18.6	2,755	9	2,527	19	200
16 to 17 years	1,682	49.2	1,663	1,203	360	21.7	1,734	2	1,647	6	78
18 to 19 years	2,577	71.6	2,379	1,987	392	16.5	1,022	7	880	13	122
20 to 64 years	48,947	90.0	47,648	45,170	2,479	5.2	5,460	150	1,255	879	3,176
20 to 24 years	7,682	86.1	7,132	6,374	758	10.6	1,235	6	953	40	236
25 to 54 years	34,765	95.2	34,022	32,475	1,547	4.5	1,743	83	293	437	929
25 to 29 years	15,112	96.0	14,626	13,776	850	5.8	625	22	252	95	256
30 to 34 years	10,746	96.7	10,517	10,156	361	3.4	365	21	29	104	210
35 to 44 years	8,911	92.2	8,879	8,542	337	3.8	753	40	12	237	463
55 to 64 years	6,496	72.4	6,495	6,322	173	2.7	2,482	60	9	401	2,011
55 to 59 years	4,000	82.7	3,999	3,503	96	2.4	839	20	6	193	620
60 to 64 years	2,496	60.3	2,496	2,419	77	3.1	1,643	40	4	208	1,391
65 years and over	1,707	19.1	1,707	1,667	40	2.4	7,214	137	3	392	6,682
Black and other											
16 years and over	7,014	71.9	6,574	5,698	875	13.3	2,737	84	902	294	1,457
16 to 21 years	1,076	55.3	917	609	308	33.6	871	2	738	5	126
16 to 19 years	587	44.8	522	336	186	35.6	722	2	645	--	75
16 to 17 years	190	28.7	186	106	80	42.8	472	2	447	--	23
18 to 19 years	397	61.3	336	230	106	31.5	250	--	198	--	52
20 to 64 years	6,253	84.0	5,878	5,206	672	11.4	1,189	41	258	216	675
20 to 24 years	1,209	81.0	1,019	770	249	24.4	284	3	168	16	98
25 to 54 years	4,408	88.6	4,224	3,638	386	9.1	567	25	87	124	331
25 to 29 years	2,046	90.5	1,912	1,684	228	11.9	214	11	70	19	115
30 to 34 years	1,310	90.0	1,265	1,178	87	6.9	145	10	11	32	93
35 to 44 years	1,052	83.6	1,047	977	71	6.7	207	4	7	73	123
55 to 64 years	636	65.3	636	598	38	6.0	338	13	3	76	246
55 to 59 years	391	73.0	391	368	23	6.0	144	10	2	36	96
60 to 64 years	245	55.8	245	230	15	5.9	194	3	1	40	150
65 years and over	174	17.4	174	156	18	10.5	825	40	--	78	707

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, and race	November 1980										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	45,480	52.2	45,315	41,575	3,340	7.4	41,629	31,451	4,563	1,041	4,575
16 to 21 years	7,072	57.3	7,007	5,986	1,021	14.6	5,280	1,213	3,760	12	294
16 to 19 years	4,194	51.6	4,166	3,478	687	16.5	3,937	596	3,148	9	185
16 to 17 years	1,645	41.7	1,644	1,326	318	19.3	2,298	151	2,076	1	70
18 to 19 years	2,548	60.9	2,522	2,152	370	14.7	1,639	445	1,071	8	115
20 to 64 years	40,127	61.9	39,990	37,370	2,621	6.6	24,677	20,976	1,407	460	1,835
20 to 24 years	7,305	70.3	7,229	6,490	739	10.2	3,091	1,895	923	18	255
25 to 54 years	28,198	65.2	28,142	26,444	1,698	6.0	15,083	13,510	465	229	880
25 to 29 years	6,510	68.1	6,471	5,958	513	7.9	3,044	2,683	177	18	165
30 to 34 years	5,765	65.1	5,753	5,404	350	6.1	3,087	2,778	141	21	147
35 to 39 years	4,815	66.8	4,815	4,517	299	6.2	2,398	2,153	69	31	145
40 to 44 years	4,040	66.8	4,039	3,838	201	5.0	2,008	1,839	42	40	87
45 to 49 years	3,526	62.6	3,526	3,336	190	5.4	2,108	1,916	22	45	125
50 to 54 years	3,537	59.2	3,537	3,352	145	4.1	2,439	2,141	14	74	210
55 to 64 years	4,615	41.5	4,619	4,436	183	4.0	6,504	5,570	20	214	701
55 to 59 years	2,905	49.1	2,904	2,776	128	4.4	3,010	2,593	14	116	287
60 to 64 years	1,715	32.9	1,715	1,659	55	3.2	3,493	2,977	6	97	413
65 years and over	1,160	8.2	1,160	1,127	32	2.8	13,015	9,879	8	572	2,555
65 to 69 years	725	15.3	729	701	28	3.8	4,050	3,228	4	108	710
70 years and over	431	4.6	431	426	5	1.1	8,965	6,652	4	464	1,645
White											
16 years and over	35,309	52.0	35,187	36,657	2,530	6.5	36,344	28,040	3,584	800	3,921
16 to 21 years	6,245	60.3	6,198	5,426	772	12.5	4,115	964	2,941	8	202
16 to 19 years	3,764	55.3	3,744	3,210	534	14.3	3,042	467	2,441	5	130
16 to 17 years	1,513	46.0	1,511	1,247	264	17.5	1,774	120	1,601	1	52
18 to 19 years	2,251	64.0	2,233	1,963	270	12.1	1,268	347	840	4	78
20 to 64 years	34,512	61.6	34,411	32,443	1,968	5.7	21,507	18,516	1,136	345	1,511
20 to 24 years	6,302	71.9	6,242	5,721	521	8.3	2,465	1,538	736	13	178
25 to 54 years	24,118	64.7	24,076	22,791	1,285	5.3	13,170	11,901	382	163	724
25 to 29 years	10,354	65.9	10,316	9,998	618	6.0	5,353	4,817	251	34	250
30 to 34 years	7,611	66.5	7,607	7,219	388	5.1	3,841	3,504	100	43	193
35 to 44 years	6,154	60.7	6,153	5,974	279	4.5	3,977	3,580	30	86	280
55 to 64 years	4,092	41.1	4,092	3,930	162	4.0	5,872	5,077	18	168	609
55 to 59 years	2,577	48.8	2,577	2,461	116	4.5	2,708	2,352	12	90	254
60 to 64 years	1,515	32.4	1,515	1,469	46	3.0	3,164	2,725	6	78	355
65 years and over	1,033	8.1	1,033	1,005	28	2.7	11,795	9,057	7	450	2,280
Black and other											
16 years and over	6,171	53.9	6,128	5,318	810	13.2	5,285	3,411	979	241	654
16 to 21 years	827	41.5	809	561	248	30.7	1,164	248	819	4	92
16 to 19 years	430	32.4	422	269	153	36.3	895	129	707	4	55
16 to 17 years	133	20.2	132	79	53	40.2	524	31	476	--	18
18 to 19 years	297	44.5	290	190	100	34.5	371	98	231	4	37
20 to 64 years	5,615	63.9	5,579	4,527	652	11.7	3,170	2,459	271	115	324
20 to 24 years	1,008	61.7	987	768	218	22.1	625	357	186	4	77
25 to 54 years	4,075	68.1	4,065	3,653	413	10.2	1,913	1,609	83	66	155
25 to 29 years	1,922	71.2	1,908	1,664	245	12.8	778	645	67	5	62
30 to 34 years	1,248	68.8	1,248	1,136	112	9.0	565	488	11	28	38
35 to 44 years	910	61.5	910	854	56	6.2	570	477	5	33	55
55 to 64 years	527	45.5	527	505	22	4.1	632	493	2	45	92
55 to 59 years	328	52.0	328	315	12	3.8	302	241	2	26	33
60 to 64 years	199	37.7	199	190	9	4.7	330	252	--	19	59
65 years and over	127	9.4	127	122	5	3.7	1,220	823	1	122	275

HOUSEHOLD DATA

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
MALES								
16 years and over	61,319	61,926	77.7	77.3	59,372	59,972	77.1	76.8
16 to 19 years	4,975	4,846	59.1	58.2	4,710	4,564	57.6	56.8
16 to 17 years	1,978	1,872	47.7	45.9	1,961	1,849	47.4	45.6
18 to 19 years	2,997	2,974	70.2	70.0	2,749	2,715	68.4	68.1
20 to 24 years	8,871	8,891	86.1	85.4	8,120	8,150	85.0	84.3
25 to 54 years	38,375	39,177	94.4	94.4	37,444	38,246	94.3	94.3
25 to 34 years	16,605	17,158	95.6	95.3	15,991	16,538	95.4	95.2
35 to 44 years	11,766	12,056	96.0	95.9	11,486	11,782	95.9	95.9
45 to 54 years	10,004	9,963	90.9	91.2	9,967	9,926	90.9	91.2
55 to 64 years	7,149	7,132	72.7	71.7	7,148	7,131	72.7	71.7
55 to 59 years	4,427	4,391	82.4	81.7	4,426	4,390	82.4	81.7
60 to 64 years	2,723	2,741	61.0	59.9	2,722	2,741	61.0	59.9
65 years and over	1,949	1,881	20.1	19.0	1,949	1,881	20.1	19.0
White								
16 years and over	54,509	54,912	78.5	78.1	52,979	53,398	78.0	77.6
16 to 19 years	4,441	4,259	62.4	60.7	4,240	4,043	61.3	59.5
16 to 17 years	1,755	1,682	51.4	49.2	1,780	1,663	51.2	49.0
18 to 19 years	2,647	2,577	72.9	71.6	2,459	2,379	71.4	70.0
20 to 24 years	7,701	7,682	87.0	86.1	7,131	7,132	86.1	85.2
25 to 54 years	34,084	34,769	95.1	95.2	33,327	34,022	95.0	95.1
25 to 34 years	14,657	15,112	96.2	96.0	14,168	14,626	96.1	95.9
35 to 44 years	10,476	10,746	96.6	96.7	10,241	10,517	96.6	96.6
45 to 54 years	8,951	8,911	91.8	92.2	8,918	8,879	91.7	92.2
55 to 64 years	6,522	6,496	73.4	72.4	6,521	6,495	73.4	72.4
55 to 59 years	4,034	4,000	83.4	82.7	4,033	3,999	83.4	82.7
60 to 64 years	2,488	2,496	61.4	60.3	2,488	2,496	61.4	60.3
65 years and over	1,760	1,707	20.1	19.1	1,760	1,707	20.1	19.1
Black and other								
16 years and over	6,811	7,014	71.9	71.9	6,393	6,574	70.6	70.6
16 to 19 years	533	587	41.1	44.8	471	522	38.1	41.9
16 to 17 years	183	190	27.8	28.7	180	186	27.5	28.3
18 to 19 years	350	397	54.8	61.3	290	336	50.1	57.3
20 to 24 years	1,170	1,205	80.4	81.0	989	1,019	77.6	78.2
25 to 54 years	4,251	4,408	89.5	88.6	4,117	4,224	89.1	88.2
25 to 34 years	1,948	2,046	91.1	90.5	1,823	1,912	90.6	89.9
35 to 44 years	1,290	1,310	91.4	90.0	1,245	1,265	91.1	89.7
45 to 54 years	1,053	1,052	84.6	83.6	1,049	1,047	84.5	83.5
55 to 64 years	627	636	66.3	65.3	627	636	66.3	65.3
55 to 59 years	393	391	74.1	73.0	393	391	74.1	73.0
60 to 64 years	234	245	56.3	55.8	234	245	56.3	55.8
65 years and over	189	174	19.4	17.4	189	174	19.4	17.4

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	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
FEMALES								
16 years and over	44,452	45,480	51.5	52.2	44,347	45,315	51.8	52.1
16 to 19 years	4,408	4,154	53.6	51.6	4,385	4,166	53.4	51.4
16 to 17 years	1,814	1,645	45.2	41.7	1,813	1,644	45.2	41.7
18 to 19 years	2,595	2,509	61.6	60.9	2,572	2,522	61.4	60.6
20 to 24 years	7,146	7,305	69.4	70.3	7,073	7,229	69.2	70.1
25 to 54 years	27,107	28,156	63.5	65.2	27,058	28,142	63.9	65.1
25 to 34 years	11,658	12,276	65.6	66.7	11,615	12,225	65.5	66.6
35 to 44 years	6,436	8,859	65.2	66.8	6,432	8,854	65.2	66.8
45 to 54 years	7,013	7,064	59.5	60.8	7,012	7,063	59.9	60.8
55 to 64 years	4,668	4,619	42.5	41.5	4,668	4,619	42.5	41.5
55 to 59 years	2,928	2,905	49.6	49.1	2,928	2,904	49.6	49.1
60 to 64 years	1,740	1,715	34.2	32.9	1,740	1,715	34.2	32.9
65 years and over	1,163	1,160	8.4	8.2	1,163	1,160	8.4	8.2
White								
16 years and over	38,483	39,309	51.5	52.0	38,372	39,187	51.5	51.9
16 to 19 years	3,929	3,764	56.8	55.3	3,911	3,744	56.7	55.2
16 to 17 years	1,647	1,513	49.0	46.0	1,646	1,511	49.0	46.0
18 to 19 years	2,282	2,251	64.3	64.0	2,265	2,233	64.1	63.8
20 to 24 years	6,147	6,302	70.7	71.9	6,092	6,242	70.5	71.7
25 to 54 years	23,215	24,118	63.4	64.7	23,178	24,076	63.3	64.6
25 to 34 years	9,860	10,354	64.8	65.9	9,827	10,316	64.8	65.8
35 to 44 years	7,226	7,611	64.6	66.5	7,223	7,607	64.6	66.5
45 to 54 years	6,128	6,154	59.8	60.7	6,128	6,153	59.8	60.7
55 to 64 years	4,159	4,092	42.2	41.1	4,159	4,092	42.2	41.1
55 to 59 years	2,610	2,577	49.4	48.8	2,610	2,577	49.4	48.8
60 to 64 years	1,549	1,515	33.8	32.4	1,549	1,515	33.8	32.4
65 years and over	1,033	1,033	8.2	8.1	1,033	1,033	8.2	8.1
Black and other								
16 years and over	6,010	6,171	54.1	53.9	5,975	6,128	53.9	53.7
16 to 19 years	480	430	36.4	32.4	474	422	36.1	32.0
16 to 17 years	167	133	25.5	20.2	167	132	25.4	20.1
18 to 19 years	313	297	47.2	44.5	307	290	46.8	43.8
20 to 24 years	998	1,006	62.7	61.7	981	987	62.3	61.2
25 to 54 years	3,892	4,075	67.4	68.1	3,881	4,065	67.3	68.0
25 to 34 years	1,798	1,922	70.2	71.2	1,788	1,908	70.1	71.0
35 to 44 years	1,210	1,246	69.0	68.8	1,209	1,248	69.0	68.8
45 to 54 years	884	910	60.5	61.5	884	910	60.5	61.5
55 to 64 years	509	527	45.3	45.5	509	527	45.3	45.5
55 to 59 years	318	326	51.2	52.0	318	328	51.2	52.0
60 to 64 years	191	195	37.5	37.7	191	199	37.5	37.7
65 years and over	131	127	10.0	9.4	131	127	10.0	9.4

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex and age	November 1980						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
TOTAL							
16 years and over	10,710	5,174	188	8,986	1,536	14.3	6,669
16 to 19 years	812	501	21	480	311	38.3	1,426
16 to 17 years	271	155	6	149	116	42.8	884
18 to 19 years	541	346	15	330	195	36.1	541
20 to 24 years	1,724	1,290	25	1,265	434	25.2	754
25 to 54 years	6,922	6,202	103	6,099	720	10.4	2,043
25 to 34 years	3,177	2,750	24	2,726	427	13.4	779
35 to 44 years	2,108	1,934	37	1,898	173	8.2	602
45 to 54 years	1,638	1,518	43	1,475	120	7.3	663
55 to 64 years	1,003	950	23	927	53	5.3	657
55 to 59 years	617	583	12	571	34	5.5	390
60 to 64 years	386	366	11	355	20	5.1	467
65 years and over	250	232	16	216	18	7.1	1,789
Males							
16 years and over	5,521	4,731	170	4,562	790	14.3	2,352
16 to 19 years	459	286	18	269	173	37.7	622
16 to 17 years	166	92	6	86	74	44.6	406
18 to 19 years	294	194	12	181	99	33.7	213
20 to 24 years	863	638	23	615	225	26.1	233
25 to 54 years	3,524	3,182	93	3,089	343	9.7	480
25 to 34 years	1,584	1,380	19	1,361	204	12.9	165
35 to 44 years	1,064	989	35	954	74	7.0	129
45 to 54 years	877	813	40	773	65	7.4	187
55 to 64 years	540	505	20	485	34	6.3	307
55 to 59 years	330	307	12	295	22	6.7	133
60 to 64 years	210	197	8	189	13	6.2	175
65 years and over	136	120	16	104	15	11.0	705
Females							
16 years and over	5,189	4,443	18	4,424	746	14.4	4,517
16 to 19 years	353	215	3	211	138	39.1	604
16 to 17 years	105	63	--	63	42	40.3	476
18 to 19 years	247	152	3	149	96	38.7	328
20 to 24 years	861	652	2	650	209	24.3	521
25 to 54 years	3,398	3,020	10	3,010	377	11.1	1,563
25 to 34 years	1,593	1,370	5	1,365	223	14.0	614
35 to 44 years	1,044	945	2	944	99	9.5	473
45 to 54 years	761	705	3	702	55	7.3	476
55 to 64 years	463	445	3	442	19	4.0	550
55 to 59 years	287	276	--	276	12	4.1	257
60 to 64 years	176	169	3	166	7	3.9	292
65 years and over	114	112	--	112	3	2.3	1,080

NOTE: Data relate to black workers only. In the 1970 census, they constituted about 89 percent of the "black and other" population group.

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

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Nov. 1975	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
TOTAL								
Total noninstitutional population	164,682	167,201	70,487	71,768	77,547	78,979	16,648	16,454
Total labor force	105,812	107,406	56,345	57,080	40,084	41,287	9,383	9,039
Percent of population	64.3	64.2	79.9	79.5	51.7	52.3	56.4	54.9
Civilian labor force	103,719	105,287	54,662	55,408	39,963	41,150	9,095	8,730
Employed	97,543	97,801	52,485	52,199	37,799	38,497	7,660	7,105
Agriculture	3,257	3,214	2,403	2,375	591	532	262	308
Nonagricultural industries	94,666	94,586	50,082	49,824	37,207	37,964	7,397	6,798
Unemployed	5,776	7,486	2,177	3,209	2,164	2,653	1,435	1,625
Percent of labor force	5.6	7.1	4.0	5.8	5.4	6.4	15.8	18.6
Not in labor force	58,870	59,795	14,142	14,688	37,463	37,692	7,265	7,415
White								
Total noninstitutional population	144,101	145,995	62,318	63,327	67,752	68,847	14,031	13,820
Total labor force	92,991	94,221	50,067	50,654	34,554	35,545	8,370	8,023
Percent of population	64.5	64.5	80.3	80.0	51.0	51.6	59.7	58.1
Civilian labor force	91,351	92,585	48,740	49,355	34,461	35,444	8,150	7,786
Employed	86,662	86,785	47,047	46,837	32,795	33,448	7,020	6,500
Agriculture	4,562	4,550	2,177	2,180	554	507	254	285
Nonagricultural industries	83,877	83,813	44,870	44,657	32,241	32,941	6,766	6,215
Unemployed	4,490	5,801	1,693	2,519	1,667	1,996	1,130	1,286
Percent of labor force	4.9	6.3	3.5	5.1	4.8	5.6	13.5	16.5
Not in labor force	51,110	51,773	12,251	12,674	33,198	33,302	5,661	5,798
Black and other								
Total noninstitutional population	20,580	21,206	8,169	8,441	9,795	10,131	2,617	2,634
Total labor force	12,820	13,185	6,277	6,427	5,530	5,742	1,013	1,017
Percent of population	62.3	62.2	76.8	76.1	56.5	56.7	38.7	38.6
Civilian labor force	12,366	12,702	5,922	6,052	5,501	5,706	945	943
Employed	11,081	11,016	5,438	5,362	5,004	5,049	640	605
Agriculture	272	243	226	194	38	26	8	22
Nonagricultural industries	10,810	10,774	5,212	5,168	4,966	5,023	631	582
Unemployed	1,287	1,686	484	690	498	657	305	339
Percent of labor force	10.4	13.3	8.2	11.4	9.0	11.5	32.3	35.9
Not in labor force	7,760	8,021	1,891	2,014	4,265	4,390	1,603	1,617

HOUSEHOLD DATA

A-7. Employment status of the noninstitutional population 16 to 21 years of age by major activity, sex, and race

(Numbers in thousands)

Employment status and major activity	November 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	24,973	12,621	12,352	21,035	10,674	10,361	3,538	1,947	1,991
Total labor force	15,365	8,293	7,072	13,462	7,217	6,245	1,903	1,076	827
Percent of population	61.5	65.7	57.3	64.0	67.6	60.3	48.3	55.3	41.5
Civilian labor force	14,653	7,646	7,007	12,927	6,729	6,198	1,726	917	809
Employed	12,253	6,266	5,986	11,083	5,657	5,426	1,170	609	561
Agriculture	457	379	77	424	352	72	33	27	5
Nonagricultural industries	11,796	5,887	5,909	10,659	5,305	5,354	1,137	582	555
Unemployed	2,400	1,379	1,021	1,844	1,072	772	556	308	248
Looking for full-time work	1,505	880	624	1,156	694	462	348	186	162
Looking for part-time work	895	499	396	688	378	310	208	121	87
Percent of labor force	16.4	18.0	14.6	14.3	15.9	12.5	32.2	33.6	30.7
Not in labor force	9,608	4,328	5,280	7,572	3,457	4,115	2,035	871	1,164
Major activity: going to school									
Civilian labor force	4,542	2,293	2,249	4,049	2,043	2,006	493	249	243
Employed	3,662	1,785	1,877	3,388	1,666	1,722	274	119	155
Agriculture	137	112	25	134	110	24	3	2	1
Nonagricultural industries	3,525	1,673	1,852	3,253	1,556	1,697	272	117	154
Unemployed	880	508	372	662	378	284	219	130	88
Looking for full-time work	84	51	32	54	34	20	30	17	12
Looking for part-time work	797	457	340	608	344	264	189	113	76
Percent of labor force	19.4	22.2	16.6	16.3	18.5	14.2	44.4	52.3	36.2
Not in labor force	7,623	3,863	3,760	6,066	3,125	2,941	1,557	738	819
Major activity: other									
Civilian labor force	10,111	5,353	4,758	8,878	4,686	4,192	1,233	667	566
Employed	8,591	4,482	4,109	7,696	3,992	3,704	896	490	405
Agriculture	320	268	52	290	242	48	30	26	4
Nonagricultural industries	8,272	4,214	4,057	7,406	3,750	3,656	866	465	401
Unemployed	1,520	871	648	1,182	694	488	337	177	160
Looking for full-time work	1,421	829	592	1,102	660	442	319	169	149
Looking for part-time work	99	42	56	80	34	46	19	8	11
Percent of labor force	15.0	16.3	13.6	13.3	14.8	11.6	27.4	26.5	28.3
Not in labor force	1,984	465	1,520	1,506	332	1,174	478	133	345

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

[Numbers in thousands]

Sex, age, and race	November 1980								
	Full-time labor force				Part-time labor force				
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over	89,026	78,776	4,212	6,038	6.8	16,262	14,813	1,448	8.9
16 to 21 years	8,730	6,269	557	1,505	17.2	5,923	5,028	895	15.1
16 to 19 years	4,037	2,623	577	837	20.7	4,693	3,905	788	16.8
16 to 17 years	567	252	139	176	31.1	2,925	2,344	581	19.9
18 to 19 years	3,470	2,371	438	661	19.0	1,767	1,560	207	11.7
20 years and over	84,988	76,153	3,635	5,201	6.1	11,569	10,908	661	5.7
20 to 24 years	13,003	10,625	632	1,546	11.9	2,376	2,176	200	8.4
25 years and over	71,986	65,528	2,603	3,655	5.1	9,193	8,732	461	5.0
25 to 54 years	60,165	54,566	2,314	3,291	5.5	6,223	5,882	340	5.5
55 years and over	11,821	10,962	489	365	3.1	2,970	2,850	120	4.0
Males, 16 years and over	54,707	49,240	1,573	3,494	6.4	5,265	4,613	652	12.4
16 to 21 years	4,801	3,454	426	880	18.3	2,845	2,346	499	17.5
16 to 19 years	2,245	1,506	256	483	21.5	2,319	1,865	454	19.6
20 years and over	52,462	47,734	1,717	3,011	5.7	2,946	2,748	198	6.7
20 to 24 years	7,226	5,902	401	923	12.8	924	841	84	9.1
25 years and over	45,236	41,832	1,316	2,088	4.6	2,022	1,907	114	5.6
25 to 54 years	37,506	34,558	1,075	1,673	5.0	1,740	1,660	80	4.6
55 years and over	7,730	7,274	241	214	2.8	1,282	1,228	54	4.2
Females, 16 years and over	34,319	29,536	2,239	2,544	7.4	10,997	10,200	796	7.2
16 to 21 years	3,929	2,775	530	624	15.9	3,078	2,681	396	12.9
16 to 19 years	1,792	1,118	321	354	19.7	2,373	2,040	334	14.1
20 years and over	32,526	28,418	1,518	2,190	6.7	8,623	8,161	463	5.4
20 to 24 years	5,777	4,723	431	623	10.8	1,452	1,336	116	8.0
25 years and over	26,750	23,694	1,487	1,568	5.9	7,172	6,825	347	4.8
25 to 54 years	22,659	20,002	1,239	1,417	6.3	5,483	5,202	281	5.1
55 years and over	4,091	3,692	248	151	3.7	1,688	1,623	66	3.9
White									
Males, 16 years and over	48,703	44,275	1,650	2,778	5.7	4,695	4,202	493	10.5
16 to 21 years	4,206	3,157	355	694	16.5	2,522	2,145	378	15.0
16 to 19 years	1,987	1,376	209	401	20.2	2,056	1,705	351	17.1
20 years and over	46,716	42,898	1,441	2,377	5.1	2,639	2,457	182	5.4
20 to 24 years	6,294	5,264	339	691	11.0	837	770	67	8.0
25 years and over	40,421	37,634	1,102	1,685	4.2	1,802	1,728	75	4.2
25 to 54 years	33,379	30,986	888	1,505	4.5	642	601	42	6.5
55 years and over	7,042	6,648	214	179	2.5	1,160	1,127	34	2.9
Females, 16 years and over	29,193	25,451	1,663	1,879	6.4	9,994	9,344	651	6.5
16 to 21 years	3,421	2,491	467	462	13.5	2,777	2,467	310	11.2
16 to 19 years	1,601	1,035	291	275	17.2	2,143	1,864	279	12.1
20 years and over	27,592	24,416	1,572	1,604	5.8	7,851	7,460	391	5.0
20 to 24 years	4,918	4,137	354	427	8.7	1,324	1,230	94	7.1
25 years and over	22,674	20,279	1,218	1,178	5.2	6,527	6,230	298	4.6
25 to 54 years	19,045	16,982	1,022	1,041	5.5	5,031	4,767	264	4.6
55 years and over	3,629	3,297	196	136	3.7	1,496	1,443	54	3.6
Black and other									
Males, 16 years and over	6,004	4,966	123	716	11.9	570	410	159	28.0
16 to 21 years	594	337	71	186	31.4	323	202	121	37.6
16 to 19 years	258	130	47	82	31.6	264	160	104	39.4
20 years and over	5,746	4,836	276	634	11.0	306	251	56	18.2
20 to 24 years	932	638	62	232	24.9	87	70	17	19.4
25 years and over	4,815	4,198	214	403	8.4	219	181	39	17.8
25 to 54 years	4,127	3,572	187	368	8.9	98	80	18	18.4
55 years and over	688	626	27	35	5.1	121	101	21	17.4
Females, 16 years and over	5,126	4,085	376	665	13.0	1,002	857	146	14.5
16 to 21 years	508	283	63	162	31.8	301	214	87	28.8
16 to 19 years	192	63	30	79	41.1	230	156	74	32.3
20 years and over	4,934	4,002	346	586	11.9	772	701	71	9.2
20 to 24 years	859	586	76	196	22.8	128	106	22	17.4
25 years and over	4,075	3,416	270	390	9.6	644	595	49	7.6
25 to 54 years	3,614	3,020	218	376	10.4	451	414	37	8.2
55 years and over	461	395	52	14	3.0	193	181	12	6.2

¹ 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	November 1980									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over	105,287	63.8	97,801	7,486	7.1	59,795	31,830	9,250	2,624	16,090
Husbands ¹	40,789	80.6	39,190	1,599	3.9	9,805	188	224	1,074	8,318
With employed wife	21,348	91.9	20,611	737	3.5	1,891	66	115	338	1,372
With unemployed wife	1,263	90.9	1,092	171	13.5	126	-	4	21	101
With wife not in labor force	16,400	69.4	15,825	575	3.5	7,247	98	70	656	6,424
Wives	24,629	51.0	23,239	1,390	5.6	23,647	21,381	339	283	1,644
With employed husband	21,704	57.8	20,612	1,093	5.0	15,825	14,748	288	92	696
With unemployed husband	907	61.2	736	171	18.9	575	522	12	4	38
With husband not in labor force	2,017	21.8	1,891	126	6.2	7,247	6,111	39	188	909
Relatives in married-couple families	14,116	60.5	12,168	1,948	13.8	9,211	1,255	6,230	324	1,403
16-19 years	6,140	53.9	5,101	1,040	16.9	5,257	150	4,814	17	276
20-24 years	5,037	74.7	4,443	594	11.8	1,710	147	1,295	37	231
25 years and over	2,939	56.7	2,624	314	10.7	2,244	958	121	270	896
Females who maintain families	5,268	59.1	4,749	518	9.8	3,645	2,883	141	166	455
Relatives in families maintained by females	4,423	56.3	3,495	928	21.0	3,438	861	1,560	236	781
16-19 years	1,370	47.9	576	394	28.8	1,491	94	1,259	5	133
20-24 years	1,341	70.8	1,048	292	21.8	553	125	259	26	143
25 years and over	1,712	55.1	1,871	242	14.1	1,394	642	42	205	505
Persons not living in families ²	16,062	61.5	14,960	1,103	6.9	10,049	5,262	756	541	3,489

¹ Includes a small number of single, separated, widowed, or divorced men who had families.

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

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

Marital status, race, and age	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
	Total, 16 years and over	2,939	4,146	4.9	6.9	2,838	3,340	6.4	7.4
Married, spouse present	1,081	1,569	2.7	3.9	1,179	1,438	4.8	5.7
Widowed, divorced, or separated	321	464	6.6	9.0	548	638	6.6	7.4
Single (never married)	1,537	2,113	10.7	14.2	1,111	1,265	9.8	10.9
White, 16 years and over	2,309	3,271	4.4	6.1	2,180	2,530	5.7	6.5
Married, spouse present	913	1,324	2.5	3.6	1,016	1,243	4.6	5.5
Widowed, divorced, or separated	224	354	5.7	8.4	400	436	6.0	6.3
Single (never married)	1,173	1,593	9.4	12.5	764	851	8.0	8.7
Black and other, 16 years and over	629	875	9.8	13.3	658	810	11.0	13.2
Married, spouse present	169	245	4.8	7.1	163	194	6.4	7.5
Widowed, divorced, or separated	97	110	10.0	11.4	147	202	9.2	12.1
Single (never married)	364	521	19.2	24.1	347	414	19.2	22.1
Total, 20 to 64 years of age	2,131	3,151	4.0	5.9	2,132	2,621	5.5	6.6
Married, spouse present	1,025	1,497	2.7	3.9	1,087	1,366	4.6	5.6
Widowed, divorced, or separated	311	445	6.7	9.2	512	609	6.7	7.7
Single (never married)	796	1,205	8.1	11.6	533	646	7.3	8.3
White, 20 to 64 years of age	1,652	2,479	3.5	5.2	1,641	1,968	4.9	5.7
Married, spouse present	862	1,268	2.5	3.6	936	1,178	4.4	5.4
Widowed, divorced, or separated	216	339	5.8	8.5	371	409	6.1	6.5
Single (never married)	575	872	6.9	9.9	334	381	5.6	6.1
Black and other, 20 to 64 years of age	479	672	8.4	11.4	492	652	9.2	11.7
Married, spouse present	163	228	4.8	6.9	151	188	6.0	7.4
Widowed, divorced, or separated	96	110	10.4	11.9	141	199	9.3	12.5
Single (never married)	221	334	15.4	20.4	199	265	14.7	18.1

A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
Total, 16 years and over	5,776	7,486	5.6	7.1	4.9	6.9	6.4	7.4
White-collar workers	1,604	1,998	3.1	3.7	1.9	2.9	4.1	4.4
Professional and technical	357	403	2.3	2.5	1.7	2.0	3.1	3.0
Managers and administrators, except farm	214	284	2.0	2.5	1.5	2.3	3.4	3.1
Sales workers	229	288	3.4	4.4	2.1	4.0	4.9	4.9
Clerical workers	805	1,023	4.3	5.3	3.1	5.6	4.6	5.2
Blue-collar workers	2,454	3,387	7.1	9.9	6.6	9.2	9.1	12.7
Craft and kindred workers	621	852	4.6	6.4	4.6	6.4	4.3	7.0
Carpenters and other construction craft workers	318	396	7.3	9.3	7.3	9.4	(1)	(1)
All other	303	456	3.3	5.0	3.3	4.8	3.7	7.0
Operatives, except transport	1,033	1,439	8.5	12.0	7.6	10.6	9.8	14.1
Transport equipment operatives	178	330	4.6	8.6	4.6	8.7	5.1	7.6
Nonfarm laborers	622	767	12.4	15.2	12.5	15.5	11.2	12.8
Construction laborers	171	208	17.3	21.2	16.5	21.3	(1)	(1)
All other	451	559	11.1	13.7	11.4	13.9	9.6	12.4
Service workers	908	1,140	6.6	8.1	5.7	7.8	7.1	8.4
Private household	49	53	4.2	4.8	(1)	(1)	4.3	4.4
All other	858	1,087	6.8	8.4	5.7	7.7	7.5	8.9
Farm workers	143	126	5.2	4.6	3.3	3.5	13.2	9.8
No previous work experience	667	835	--	--	--	--	--	--
16 to 19 years	466	634	--	--	--	--	--	--
20 to 24 years	118	133	--	--	--	--	--	--
25 years and over	83	68	--	--	--	--	--	--

¹ Percent not shown where base is less than 75,000.

A-12. Unemployed persons by industry and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
Total, 16 years and over	100.0	100.0	5.6	7.1	4.9	6.5	6.4	7.4
Nonagricultural private wage and salary workers	73.9	76.2	5.6	7.4	5.2	7.4	6.2	7.4
Mining	.6	1.1	3.6	8.1	3.8	8.1	2.6	8.2
Construction	8.3	8.7	9.0	12.7	9.1	12.9	7.5	10.4
Manufacturing	22.8	25.7	5.7	8.5	4.9	7.3	7.4	10.8
Durable goods	13.2	15.9	5.5	8.7	5.1	7.7	6.6	11.3
Lumber and wood products	.9	.9	7.4	10.1	7.9	10.8	4.2	5.6
Furniture and fixtures	.4	.7	4.3	10.0	4.3	9.8	4.3	10.3
Stone, clay, and glass products	.7	.8	5.4	9.3	4.1	8.0	10.6	14.0
Primary metal industries	1.4	1.6	6.4	9.8	6.1	9.5	8.8	12.3
Fabricated metal products	1.8	2.6	6.3	11.5	5.5	9.9	9.5	16.9
Machinery, except electrical equipment	1.6	2.5	3.3	6.4	2.9	5.2	4.7	10.5
Electrical equipment	1.6	2.1	4.0	6.4	3.2	4.2	5.0	9.1
Transportation equipment	3.2	3.2	7.9	10.8	8.0	10.2	7.5	13.2
Automobiles	2.3	2.3	10.5	14.4	11.3	13.1	6.6	20.2
Other transportation equipment	.8	.9	4.6	6.5	3.7	6.8	8.3	5.2
Instruments and related products	.7	.4	6.9	5.1	4.0	2.7	10.5	8.3
Other durable goods industries	.8	1.1	6.2	10.5	5.2	7.7	7.4	14.2
Nondurable goods	9.6	9.8	6.0	8.1	4.4	6.4	8.1	10.4
Food and kindred products	1.9	2.5	5.9	9.8	4.1	7.9	9.8	14.1
Textile mill products	.7	.9	4.4	7.5	4.7	6.8	4.1	8.1
Apparel and other textile products	2.7	2.3	11.0	12.6	9.2	8.4	11.4	13.6
Paper and allied products	.4	.6	3.0	6.0	3.2	5.0	2.5	9.2
Printing and publishing	1.2	1.1	4.4	5.6	5.2	5.9	3.2	5.1
Chemicals and allied products	.7	.7	3.2	3.9	1.9	3.1	6.5	6.0
Rubber and plastics products	1.3	1.1	9.3	11.4	6.7	10.3	14.0	13.2
Other nondurable goods industries	.6	.7	6.1	7.8	4.7	5.9	7.7	9.7
Transportation and public utilities	3.8	3.4	4.0	4.6	3.5	4.9	5.2	3.5
Railroads and railway express	.1	.5	1.3	5.8	1.2	5.9	(1)	(1)
Other transportation	2.7	2.5	5.9	7.0	5.4	7.5	7.5	5.0
Communication and other public utilities	1.0	.5	2.4	1.5	1.6	1.0	3.8	2.4
Wholesale and retail trade	20.3	20.2	6.2	7.9	5.3	7.2	7.2	8.5
Finance, insurance, and real estate	2.5	2.5	2.7	3.4	1.6	3.4	3.4	3.3
Service industries	15.6	14.6	5.3	6.1	5.1	6.6	5.4	5.9
Professional services	6.8	6.0	4.0	4.3	3.5	4.0	4.2	4.3
All other service industries	8.8	8.6	7.3	8.8	6.6	5.0	7.8	8.7
Agricultural wage and salary workers	3.2	2.3	11.7	11.2	8.7	9.0	22.1	21.1
All other classes of workers	11.4	10.4	2.6	3.0	2.1	2.8	3.3	3.3
No previous work experience	11.5	11.1	--	--	--	--	--	--

¹ Percent not shown where base is less than 75,000.

HOUSEHOLD DATA

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
NUMBER OF UNEMPLOYED												
Total unemployed, in thousands.....	5,776	7,486	2,177	3,209	2,164	2,653	1,435	1,625	4,490	5,801	1,287	1,686
Job losers.....	2,589	3,900	1,471	2,295	813	1,203	304	402	2,017	3,052	572	847
On layoff.....	855	1,217	520	741	264	384	72	92	727	1,011	128	206
Other job losers.....	1,734	2,683	951	1,554	549	819	232	310	1,290	2,041	444	641
Job leavers.....	840	904	283	360	355	375	202	169	720	772	121	132
Reentrants.....	1,680	1,849	363	475	853	951	463	422	1,307	1,396	372	453
New entrants.....	667	833	59	78	143	123	466	632	446	580	221	253
PERCENT DISTRIBUTION												
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.....	44.8	52.1	67.6	71.5	37.6	45.4	21.2	24.7	44.9	52.6	44.5	50.3
On layoff.....	14.8	16.3	23.9	23.1	12.2	14.5	5.0	5.6	16.2	17.4	10.0	12.2
Other job losers.....	30.0	35.6	43.7	46.4	25.4	30.9	16.2	19.1	28.7	35.2	34.5	38.1
Job leavers.....	14.5	12.1	13.0	11.2	16.4	14.1	14.1	10.4	16.0	13.3	9.4	7.8
Reentrants.....	29.1	24.7	16.7	14.8	39.4	35.9	32.3	26.0	25.1	24.1	28.9	26.9
New entrants.....	11.6	11.1	2.7	2.4	6.6	4.6	32.4	38.9	9.9	10.0	17.2	15.0
UNEMPLOYMENT RATE												
Total unemployment rate.....	5.6	7.1	4.0	5.8	5.4	6.4	15.8	18.6	4.9	6.3	10.4	13.3
Job loser rate ¹	2.5	3.7	2.7	4.1	2.1	2.9	3.4	4.6	2.2	3.3	4.6	6.7
Job leaver rate ¹.....	.8	.9	.5	.6	.9	.9	2.2	1.9	.8	.8	1.0	1.0
Reentrant rate ¹	1.6	1.6	.7	.9	2.1	2.3	5.1	4.8	1.4	1.5	3.0	3.6
New entrant rate ¹.....	.6	.8	.1	.1	.4	.3	5.1	7.2	.5	.6	1.8	2.0

¹ Unemployment rates are calculated as a percent of the civilian labor force.

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

[Percent distribution]

Reason, sex, and age	November 1980						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
Total, 16 years and over.....	7,486	100.0	40.2	32.5	27.3	13.8	13.5
Job losers.....	3,900	100.0	33.2	31.8	35.0	16.8	18.2
On layoff.....	1,217	100.0	42.3	25.9	31.7	15.4	16.3
Other job losers.....	2,683	100.0	29.0	34.5	36.5	17.4	15.1
Job leavers.....	904	100.0	46.8	32.4	20.8	12.2	8.6
Reentrants.....	1,845	100.0	48.4	34.1	17.5	8.9	6.6
New entrants.....	833	100.0	48.1	31.7	20.2	12.2	8.0
Males, 20 years and over.....	3,209	100.0	34.2	30.2	35.6	16.7	18.9
Job losers.....	2,295	100.0	31.1	30.3	38.6	18.1	20.5
On layoff.....	741	100.0	42.7	23.9	33.4	17.1	16.2
Other job losers.....	1,554	100.0	25.5	33.4	41.1	18.6	22.6
Job leavers.....	360	100.0	44.7	30.7	24.5	13.1	11.4
Reentrants.....	475	100.0	42.6	29.4	28.0	11.9	16.1
New entrants.....	78	100.0	24.7	30.7	44.5	20.0	24.5
Females, 20 years and over.....	2,653	100.0	40.9	33.4	25.6	12.7	12.9
Job losers.....	1,203	100.0	32.9	31.4	35.7	17.2	18.6
On layoff.....	384	100.0	34.7	30.7	34.6	15.7	16.9
Other job losers.....	819	100.0	32.1	31.7	36.2	17.8	16.4
Job leavers.....	375	100.0	41.8	34.2	24.0	14.6	9.5
Reentrants.....	951	100.0	50.4	35.4	14.2	6.7	7.5
New entrants.....	123	100.0	43.4	36.4	20.2	9.9	10.3
Both sexes, 16 to 19 years.....	1,625	100.0	51.0	35.3	13.7	9.8	3.9
Job losers.....	402	100.0	45.7	42.1	12.2	8.2	4.0
On layoff.....	92	100.0	70.9	22.5	6.5	.2	6.3
Other job losers.....	310	100.0	38.3	47.9	13.9	10.6	3.3
Job leavers.....	169	100.0	62.4	31.9	5.8	4.8	1.0
Reentrants.....	422	100.0	50.3	36.7	13.0	10.4	2.6
New entrants.....	632	100.0	51.9	30.9	17.2	11.7	5.4

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

Sex, age, and race	November 1980								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives			Other
Total, 16 years and over	7,486	6,180	11.1	6.1	74.1	31.1	12.9	5.5	1.41
16 to 19 years	1,625	1,511	15.8	3.4	80.7	24.2	11.1	4.2	1.39
20 to 24 years	1,746	1,430	29.4	6.3	74.8	29.6	11.7	5.1	1.57
25 to 34 years	1,940	1,561	32.9	7.6	72.2	36.2	14.5	4.9	1.68
35 to 44 years	947	715	35.2	7.3	70.5	34.8	12.9	5.2	1.66
45 to 54 years	743	580	29.0	7.8	70.2	34.1	15.2	9.5	1.66
55 to 64 years	354	305	26.9	5.6	67.9	33.4	12.1	7.5	1.53
65 years and over	91	78	10.3	3.8	60.3	25.6	19.2	10.3	1.29
Males, 16 years and over	4,146	3,291	28.4	6.0	75.6	27.5	15.2	6.6	1.59
16 to 19 years	937	863	12.9	3.5	81.3	22.7	14.5	4.1	1.39
20 to 24 years	1,007	777	31.9	7.3	77.7	26.3	13.8	5.0	1.62
25 to 34 years	1,077	758	35.0	8.3	75.6	31.2	15.4	6.9	1.72
35 to 44 years	448	322	46.3	5.3	67.1	29.2	15.5	7.1	1.70
45 to 54 years	408	315	30.5	6.3	71.1	30.5	18.4	12.7	1.70
55 to 64 years	211	164	28.7	3.0	66.5	34.1	15.9	11.6	1.60
65 years and over	58	51	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,340	2,890	25.9	6.3	72.4	35.3	10.2	4.2	1.54
16 to 19 years	687	648	19.6	3.4	79.8	26.2	6.6	4.5	1.40
20 to 24 years	739	653	26.5	5.1	71.2	33.7	9.3	5.2	1.51
25 to 34 years	863	763	30.7	6.9	68.7	41.4	13.6	3.0	1.64
35 to 44 years	500	353	26.2	8.9	73.3	39.4	10.7	3.8	1.62
45 to 54 years	335	265	27.5	9.4	69.1	38.5	11.3	5.7	1.62
55 to 64 years	183	141	24.8	7.8	69.5	33.3	7.8	2.8	1.46
65 years and over	32	27	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	5,801	4,705	15.9	6.4	75.2	33.2	12.9	5.5	1.49
Males	3,271	2,553	26.4	6.2	77.2	29.0	15.4	6.5	1.61
Females	2,530	2,156	22.6	6.6	72.9	38.2	9.9	4.4	1.54
Black and other, 16 years and over	1,686	1,471	35.4	5.4	70.6	24.4	12.8	5.4	1.54
Males	875	738	35.1	5.4	70.2	22.0	14.2	7.0	1.54
Females	810	734	35.6	5.3	71.0	26.8	11.3	3.7	1.54

¹ 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 sex, reason for unemployment, and jobsearch methods used

Sex and reason	November 1980								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total job-seekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives			Other
Total, 16 years and over	7,486	6,180	11.1	6.1	74.1	31.1	12.9	5.5	1.41
Job losers	3,900	2,664	34.6	7.1	74.4	31.9	15.1	5.8	1.69
Job leavers	904	912	25.2	7.1	75.9	35.6	10.9	2.3	1.57
Reentrants	1,849	1,780	21.3	5.3	71.2	31.8	10.2	7.4	1.47
New entrants	833	824	18.6	3.5	77.4	22.2	13.8	3.9	1.39
Males, 16 years and over	4,146	3,291	28.4	6.0	75.6	27.5	15.2	6.6	1.59
Job losers	2,571	1,749	35.8	6.4	75.8	28.0	16.9	7.0	1.70
Job leavers	450	448	23.2	7.1	75.9	33.0	10.9	4.0	1.54
Reentrants	727	695	19.6	5.6	72.7	26.9	11.9	8.6	1.45
New entrants	399	397	16.5	3.8	79.6	20.2	17.9	4.0	1.42
Females, 16 years and over	3,340	2,890	25.9	6.3	72.4	35.3	10.2	4.2	1.54
Job losers	1,329	915	32.2	8.5	71.7	39.5	11.5	3.4	1.67
Job leavers	454	463	27.2	6.9	75.8	38.2	10.6	.6	1.59
Reentrants	1,123	1,084	22.4	5.2	70.5	35.0	9.1	6.5	1.49
New entrants	434	428	20.1	3.3	75.2	24.1	9.8	4.0	1.36

NOTE: See note, table A-15.

HOUSEHOLD DATA

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
Total, 16 years and over	5,776	7,466	100.0	100.0	4,372	6,038	100.0	100.0
Less than 5 weeks	2,890	3,011	50.0	40.2	1,996	2,196	45.7	36.4
5 to 14 weeks	1,820	2,430	31.5	32.5	1,423	1,926	32.5	31.9
15 to 26 weeks	1,387	1,780	24.0	23.8	1,080	1,395	24.7	23.2
27 to 51 weeks	433	650	7.5	8.7	342	526	7.8	8.7
52 weeks and over	1,067	2,045	18.5	27.3	953	1,917	21.8	31.7
Average (mean) duration, in weeks	10.4	15.3	--	--	11.5	14.7	--	--
Median duration, in weeks	5.0	7.2	--	--	6.0	8.3	--	--

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

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			Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
	November 1980								Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
Total, 16 years and over	7,486	3,011	2,430	1,031	1,014	13.3	7.2	50.0	40.2	18.5	27.3
16 to 21 years	2,400	1,112	863	276	149	9.8	5.8	57.3	46.3	12.1	17.7
16 to 19 years	1,625	829	573	159	63	8.4	4.9	56.0	51.0	10.2	13.7
20 to 24 years	1,746	661	641	214	230	13.1	7.3	51.3	37.9	17.6	25.4
25 to 34 years	1,540	738	567	302	332	14.8	8.3	47.5	38.1	19.2	32.7
35 to 44 years	947	359	301	161	146	14.3	8.8	42.4	35.8	24.3	32.4
45 to 54 years	743	262	204	132	146	16.8	9.3	42.8	35.2	27.4	37.4
55 to 64 years	394	144	109	59	82	17.3	8.6	45.8	36.6	25.4	35.8
65 years and over	91	37	35	5	14	13.8	6.4	45.9	40.9	27.7	26.8
Males, 16 years and over	4,146	1,571	1,307	627	641	14.6	8.0	48.5	37.9	21.2	30.6
16 to 21 years	1,379	609	508	172	90	10.4	6.2	56.9	44.2	12.0	19.0
16 to 19 years	937	475	337	92	34	8.5	4.9	58.3	50.7	9.6	13.4
20 to 24 years	1,007	330	381	143	153	14.3	8.5	49.4	32.8	20.1	29.4
25 to 34 years	1,077	372	285	192	228	17.4	10.3	45.6	34.6	23.1	35.0
35 to 44 years	448	148	142	75	83	16.0	10.2	41.6	33.1	28.0	35.2
45 to 54 years	408	151	94	80	82	17.5	9.3	34.3	37.0	36.7	39.9
55 to 64 years	211	67	52	40	51	20.2	10.8	50.2	32.0	27.5	43.3
65 years and over	58	27	17	5	10	14.4	5.6	(1)	(1)	(1)	(1)
Females, 16 years and over	3,340	1,440	1,123	404	373	11.6	6.4	51.6	43.1	15.7	23.3
16 to 21 years	1,021	503	355	103	59	9.0	5.2	57.6	49.2	12.1	15.9
16 to 19 years	687	354	237	67	30	8.1	4.9	57.6	51.5	10.8	14.1
20 to 24 years	739	331	260	70	78	11.4	5.9	53.2	44.8	15.1	20.0
25 to 34 years	863	366	283	110	104	11.7	6.5	49.3	42.4	15.3	24.8
35 to 44 years	500	191	160	86	63	12.8	7.8	43.1	38.2	20.7	25.8
45 to 54 years	335	111	110	51	64	16.0	9.2	50.8	33.0	18.8	34.2
55 to 64 years	183	77	57	19	31	14.1	6.6	45.4	41.8	22.9	27.1
65 years and over	32	10	16	1	4	12.7	7.4	(1)	(1)	(1)	(1)
White, 16 years and over	5,801	2,403	1,860	786	753	12.7	6.9	52.1	41.4	17.2	26.5
Males	3,271	1,263	1,025	490	492	14.1	7.8	50.6	38.6	20.1	30.0
Females	2,530	1,139	835	295	261	10.8	6.0	53.7	45.0	14.1	22.0
Black and other, 16 years and over	1,686	608	570	246	261	15.3	8.3	42.8	36.1	22.9	30.1
Males	875	308	282	137	149	16.4	8.7	40.9	35.2	25.1	32.7
Females	810	301	288	109	112	14.1	7.9	44.5	37.1	20.8	27.3
Males, 16 years and over:											
Married, spouse present	1,569	558	447	277	286	15.5	8.9	46.1	35.6	25.1	35.9
Widowed, divorced, or separated	464	170	130	65	99	18.5	9.7	43.0	36.6	29.8	35.5
Single (never married)	2,113	844	730	284	255	13.0	7.3	51.3	39.9	16.6	25.5
Females, 16 years and over:											
Married, spouse present	1,438	608	473	176	181	11.9	6.7	53.9	42.3	13.9	24.9
Widowed, divorced, or separated	638	269	199	90	80	12.4	6.8	44.1	42.2	19.1	26.6
Single (never married)	1,265	563	452	138	111	10.9	6.1	52.9	44.5	15.8	19.7

Percent not shown where base is less than 75,000.

A-19. Unemployed persons by occupation, industry, and duration of unemployment

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			Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
	November 1980							Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
OCCUPATION											
White-collar workers	1,998	762	683	287	246	12.3	7.2	46.4	39.2	18.5	26.6
Professional and managerial	687	253	232	106	96	12.8	8.0	42.2	36.8	24.2	29.4
Sales workers	288	121	100	39	28	10.9	6.6	46.3	42.1	15.1	23.3
Clerical workers	1,023	408	352	143	121	12.3	7.1	45.5	39.9	15.4	25.7
Blue-collar workers	3,387	1,235	1,047	519	586	15.1	8.5	50.3	36.5	20.4	32.6
Craft and kindred workers	852	326	273	126	126	14.7	8.0	53.3	38.3	20.3	29.7
Operatives, except transport	1,439	493	416	229	298	16.0	9.3	50.3	34.3	18.5	36.7
Transport equipment operatives	330	108	95	71	53	16.2	11.0	45.0	32.6	27.5	37.3
Nonfarm laborers	767	306	257	93	109	13.3	6.9	46.9	40.2	20.7	26.3
Service workers	1,140	529	387	113	110	11.8	5.8	52.4	46.4	14.7	19.6
INDUSTRY¹											
Agriculture	169	83	61	18	8	9.2	5.2	55.7	49.0	9.9	15.1
Construction	693	308	220	79	86	12.5	6.1	55.3	44.5	14.0	23.8
Manufacturing	1,935	604	575	362	394	16.6	10.1	45.9	31.2	21.9	39.1
Durable goods	1,195	329	315	260	287	18.2	13.0	46.8	27.5	22.9	45.8
Nondurable goods	739	275	255	102	107	13.8	7.4	44.8	37.2	20.5	28.2
Transportation and public utilities	289	117	65	56	50	16.2	8.6	50.0	40.5	28.6	37.0
Wholesale and retail trade	1,520	662	515	175	164	11.7	6.4	51.0	43.5	15.4	22.3
Finance and service industries	1,584	673	552	171	187	12.2	6.4	50.1	42.5	17.8	22.6
Public administration	254	72	115	35	32	13.5	8.9	34.8	28.3	21.6	26.6
No previous work experience	835	401	266	102	66	10.9	5.5	52.8	48.0	18.3	20.1

¹ Includes wage and salary workers only.

A-20. Employed persons by industry, age, and sex

[In thousands]

Industry and age	Total		Males		Females	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
	All industries	97,943	97,801	56,433	55,826	41,510	41,975
16 to 19 years	7,660	7,105	3,949	3,627	3,711	3,478
16 to 17 years	3,128	2,735	1,600	1,410	1,528	1,326
18 to 19 years	4,531	4,370	2,348	2,217	2,183	2,152
20 to 24 years	13,533	12,633	7,485	7,144	6,447	6,490
25 to 54 years	61,836	62,757	36,132	36,313	25,705	26,444
25 to 34 years	26,206	26,822	15,300	15,461	10,906	11,362
35 to 44 years	19,177	19,689	11,118	11,334	8,059	8,355
45 to 54 years	16,455	16,246	9,715	9,518	6,740	6,727
55 to 64 years	11,477	11,356	6,963	6,920	4,514	4,436
55 to 59 years	7,140	7,047	4,316	4,271	2,825	2,776
60 to 64 years	4,337	4,308	2,648	2,649	1,690	1,659
65 years and over	3,035	2,950	1,904	1,822	1,131	1,127
Nonagricultural industries	94,666	94,586	53,806	53,193	40,881	41,393
16 to 19 years	7,397	6,798	3,724	3,369	3,673	3,429
16 to 17 years	2,991	2,587	1,483	1,285	1,568	1,302
18 to 19 years	4,406	4,210	2,241	2,084	2,165	2,127
20 to 24 years	13,517	13,250	7,149	6,826	6,367	6,423
25 to 54 years	60,052	61,052	34,785	34,980	25,307	26,072
25 to 34 years	25,554	26,208	14,772	14,961	10,782	11,246
35 to 44 years	18,641	19,142	10,731	10,926	7,910	8,215
45 to 54 years	15,697	15,703	9,282	9,092	6,614	6,611
55 to 64 years	10,563	10,836	6,551	6,468	4,433	4,368
55 to 59 years	6,890	6,774	4,112	4,039	2,778	2,735
60 to 64 years	4,054	4,063	2,439	2,430	1,655	1,633
65 years and over	2,697	2,651	1,597	1,550	1,100	1,101
Agriculture	3,257	3,214	2,628	2,632	629	582
16 to 19 years	262	308	225	258	38	50
16 to 17 years	137	148	117	124	20	24
18 to 19 years	125	159	107	134	18	25
20 to 24 years	416	384	336	317	80	66
25 to 54 years	1,746	1,704	1,347	1,333	398	371
25 to 34 years	652	615	528	499	124	115
35 to 44 years	537	547	388	408	149	140
45 to 54 years	556	543	432	426	126	117
55 to 64 years	494	519	413	452	82	68
55 to 59 years	251	274	204	232	47	42
60 to 64 years	244	246	209	220	35	26
65 years and over	326	299	307	273	31	26

HOUSEHOLD DATA

A-21. Employed persons by occupation, sex, and age
 [In thousands]

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
TOTAL	97,943	97,601	52,485	52,199	37,799	38,497	3,949	3,627	3,711	3,478
White-collar workers	50,352	51,558	22,880	23,200	24,843	25,844	687	639	1,942	1,875
Professional and technical.....	15,300	16,033	8,430	8,740	6,670	7,134	107	77	93	81
Health workers.....	2,827	2,975	948	946	1,868	2,015	3	3	8	11
Teachers, except college.....	3,267	3,582	924	1,013	2,317	2,345	6	7	20	18
Other professional and technical.....	9,206	9,676	6,558	6,781	2,485	2,774	98	67	65	52
Managers and administrators, except farm.....	10,656	11,016	8,003	8,030	2,538	2,873	56	55	58	58
Salaries workers.....	8,698	9,182	6,635	6,641	2,156	2,434	51	53	56	54
Self-employed workers in retail trade.....	792	811	540	517	249	290	1	2	2	1
Self-employed workers, except retail trade.....	966	1,024	828	873	133	149	4	--	--	2
Sales workers.....	6,432	6,253	3,168	3,131	2,496	2,458	270	204	498	461
Retail trade.....	3,394	3,235	1,021	978	1,699	1,668	203	152	471	437
Other industries.....	3,038	3,018	2,147	2,152	797	790	66	52	27	24
Clerical workers.....	17,965	18,255	3,278	3,299	13,139	13,379	254	303	1,294	1,275
Stenographers, typists, and secretaries.....	4,774	5,072	55	67	4,364	4,672	5	4	351	328
Other clerical workers.....	13,191	13,183	3,223	3,232	8,775	8,707	249	299	943	947
Blue-collar workers	32,084	30,777	23,715	23,045	5,725	5,502	2,185	1,646	460	383
Craft and kindred workers.....	12,912	12,469	11,632	11,230	711	754	505	432	63	54
Carpenters.....	1,297	1,202	1,191	1,127	18	22	86	50	2	3
Construction craft workers, except carpenters.....	2,717	2,641	2,567	2,483	27	36	116	120	6	2
Mechanics and repairers.....	3,354	3,302	3,136	3,093	46	65	171	140	3	4
Metal craft workers.....	1,322	1,249	1,247	1,165	33	49	38	33	4	3
Blue-collar worker supervisors, not elsewhere classified.....	1,767	1,732	1,559	1,509	195	201	7	12	6	10
All other.....	2,453	2,344	1,933	1,853	393	380	86	77	42	33
Operatives, except transport.....	11,081	10,509	5,876	5,764	4,258	4,025	660	488	287	231
Durable goods manufacturing.....	5,041	4,642	2,973	2,919	1,752	1,523	213	137	103	63
Nondurable goods manufacturing.....	3,468	3,277	1,337	1,257	1,894	1,824	115	73	123	123
Other industries.....	2,572	2,591	1,566	1,588	612	679	333	278	60	46
Transport equipment operatives.....	3,677	3,505	3,176	3,053	306	271	181	165	13	16
Drivers, motor vehicles.....	3,088	2,977	2,638	2,576	289	244	149	141	13	15
All other.....	589	528	540	477	17	27	32	24	--	--
Nonfarm laborers.....	4,415	4,293	3,028	2,998	450	452	640	761	98	82
Construction.....	819	772	647	638	15	22	154	107	3	4
Manufacturing.....	1,039	975	776	737	155	163	95	69	12	7
Other industries.....	2,557	2,547	1,605	1,623	279	267	591	585	82	70
Service workers	12,900	12,654	3,901	3,975	6,801	6,756	915	940	1,282	1,183
Private household workers.....	1,123	1,053	24	18	884	833	6	3	209	200
Service workers, except private household.....	11,777	11,602	3,877	3,957	5,917	5,924	909	938	1,074	983
Food service workers.....	4,318	4,403	812	873	2,234	2,239	545	593	727	699
Protective service workers.....	1,409	1,389	1,270	1,226	115	132	21	27	4	4
All other.....	6,050	6,010	1,795	1,858	3,568	3,553	343	318	343	280
Farm workers	2,606	2,612	1,989	1,979	430	394	161	201	26	38
Farmers and farm managers.....	1,465	1,489	1,294	1,325	153	149	17	16	--	--
Farm laborers and supervisors.....	1,141	1,123	655	654	276	245	144	185	26	39
Paid workers.....	907	863	669	618	118	75	100	139	19	31
Unpaid family workers.....	234	261	26	37	158	170	43	46	7	8

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
TOTAL						
Total, 16 years and over (thousands)	97,943	97,801	56,433	55,826	41,510	41,975
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.4	52.7	41.8	42.7	64.5	66.0
Professional and technical	15.6	16.4	15.1	15.8	16.3	17.2
Managers and administrators, except farm	10.9	11.3	14.3	14.5	6.3	7.0
Sales workers	6.6	6.4	6.1	6.0	7.2	7.0
Clerical workers	18.3	18.7	6.3	6.5	34.8	34.5
Blue-collar workers	32.8	31.5	45.9	44.6	14.9	14.0
Craft and kindred workers	13.2	12.7	21.5	20.9	1.9	1.9
Operatives, except transport	11.3	10.7	11.6	11.2	10.9	10.1
Transport equipment operatives	3.8	3.6	6.0	5.8	.8	.7
Nonfarm laborers	4.5	4.4	6.9	6.7	1.3	1.3
Service workers	13.2	13.1	8.5	8.8	19.5	16.9
Private household workers	1.1	1.1	.1	(1)	2.6	2.5
Other service workers	12.0	12.1	8.5	8.8	16.8	16.5
Farm workers	2.7	2.7	3.8	3.9	1.1	1.0
Farmers and farm managers	1.5	1.5	2.3	2.4	.4	.4
Farm laborers and supervisors	1.2	1.1	1.5	1.5	.7	.7
White						
Total, 16 years and over (thousands)	86,862	86,785	50,670	50,127	36,192	36,657
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	53.1	54.4	43.4	44.3	66.7	68.1
Professional and technical	16.1	16.8	15.7	16.4	16.6	17.4
Managers and administrators, except farm	11.6	12.0	15.1	15.4	6.7	7.4
Sales workers	7.0	6.8	6.5	6.3	7.8	7.5
Clerical workers	18.4	18.7	6.0	6.2	35.6	35.7
Blue-collar workers	32.1	31.0	45.0	43.8	14.2	13.5
Craft and kindred workers	13.7	13.2	22.0	21.4	2.0	2.0
Operatives, except transport	10.7	10.3	11.1	10.8	10.2	9.5
Transport equipment operatives	3.6	3.4	5.6	5.4	.8	.7
Nonfarm laborers	4.2	4.1	6.3	6.2	1.3	1.3
Service workers	12.0	11.9	7.8	7.9	17.9	17.3
Private household workers	.5	.8	(1)	(1)	2.1	2.0
Other service workers	11.1	11.0	7.8	7.9	15.9	15.3
Farm workers	2.8	2.8	3.9	4.0	1.2	1.1
Farmers and farm managers	1.6	1.7	2.5	2.6	.4	.4
Farm laborers and supervisors	1.1	1.1	1.4	1.4	.8	.7
Black and other						
Total, 16 years and over (thousands)	11,081	11,016	5,764	5,698	5,318	5,316
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	38.4	39.7	27.8	28.6	50.0	51.6
Professional and technical	12.1	13.0	9.9	10.7	14.4	15.6
Managers and administrators, except farm	5.3	5.2	7.1	6.5	3.4	3.8
Sales workers	2.5	2.9	2.5	2.8	3.3	3.1
Clerical workers	18.2	18.5	8.2	8.5	28.9	29.2
Blue-collar workers	37.5	35.4	54.1	51.8	15.6	17.8
Craft and kindred workers	9.3	9.1	16.9	16.5	1.0	1.2
Operatives, except transport	16.1	14.5	16.0	14.6	16.2	14.4
Transport equipment operatives	5.2	5.0	9.3	8.9	.6	.8
Nonfarm laborers	6.5	6.7	11.8	11.8	1.7	1.3
Service workers	22.2	23.1	15.0	16.6	29.9	30.1
Private household workers	3.2	2.9	.3	.1	6.5	5.9
Other service workers	18.5	20.2	14.8	16.5	23.5	24.2
Farm workers	1.9	1.8	3.1	3.0	.5	.4
Farmers and farm managers	.3	.4	.5	.6	.1	.1
Farm laborers and supervisors	1.6	1.4	2.6	2.4	.5	.4

1 Less than 0.05 percent.

HOUSEHOLD DATA

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

[In thousands]

Age and sex	November 1980								
	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	87,332	1,186	15,886	70,258	6,889	365	1,332	1,602	261
16 to 19 years	6,668	247	484	5,936	101	29	231	18	58
16 to 17 years	2,527	167	143	2,197	43	17	96	10	40
18 to 19 years	4,140	60	341	3,739	58	12	133	8	18
20 to 24 years	12,915	80	1,545	11,290	317	17	292	63	29
25 to 34 years	24,497	152	4,666	19,677	1,635	76	306	265	42
35 to 44 years	17,313	162	3,750	13,401	1,730	98	180	317	50
45 to 54 years	14,182	167	3,083	10,912	1,442	79	145	343	55
55 to 64 years	5,665	200	1,593	7,472	1,131	40	120	370	29
55 to 59 years	6,066	109	1,289	4,668	685	22	63	189	21
60 to 64 years	3,599	91	704	2,804	446	18	57	181	8
65 years and over	2,094	159	365	1,570	531	25	57	226	17
Males, 16 years and over	46,352	136	7,681	40,535	4,798	43	1,115	1,430	87
16 to 19 years	3,266	52	194	3,040	63	20	189	19	50
16 to 17 years	1,246	37	64	1,144	28	11	78	11	35
18 to 19 years	2,040	15	129	1,896	35	9	111	8	15
20 to 24 years	6,601	9	637	5,954	215	11	237	60	20
25 to 34 years	13,842	7	2,236	11,597	1,118	1	255	238	6
35 to 44 years	5,733	14	1,795	7,925	1,192	1	153	251	3
45 to 54 years	6,071	16	1,584	6,471	1,019	3	119	307	1
55 to 64 years	5,658	16	1,016	4,624	809	2	110	341	--
55 to 59 years	3,542	8	657	2,877	497	--	59	173	--
60 to 64 years	2,116	7	361	1,747	312	2	51	168	--
65 years and over	1,163	23	216	924	382	5	53	213	6
Females, 16 years and over	36,980	1,050	8,207	29,723	2,091	322	217	172	193
16 to 19 years	3,382	195	290	2,896	38	9	42	--	8
16 to 17 years	1,282	150	79	1,053	14	6	20	--	5
18 to 19 years	2,100	45	212	1,843	23	3	22	--	3
20 to 24 years	6,314	71	906	5,336	102	7	54	3	9
25 to 34 years	10,655	145	2,430	8,080	517	74	53	27	35
35 to 44 years	7,560	146	1,956	5,476	538	97	27	66	47
45 to 54 years	6,111	171	1,495	4,441	424	76	26	36	55
55 to 64 years	4,007	164	575	2,848	323	38	10	29	29
55 to 59 years	2,524	101	632	1,792	188	22	4	16	21
60 to 64 years	1,463	63	343	1,056	134	16	6	12	7
65 years and over	931	136	145	646	149	20	4	12	11

A-24. Employed persons by industry and occupation

[In thousands]

Industry	November 1980											
	Total employed	White-collar workers				Blue-collar workers			Service workers		Farm workers	
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers		Other service workers
Agriculture	3,214	91	36	2	75	67	24	40	240	--	29	2,612
Mining	937	126	96	1	127	214	308	37	15	--	14	--
Construction	6,175	183	775	39	482	3,404	281	197	772	--	43	--
Manufacturing	21,379	2,408	1,667	549	2,636	4,097	7,918	760	975	--	367	--
Durable goods	1,663	573	203		1,555	2,704	4,642	341	587	--	208	--
Nondurable goods	8,502	745	694	346	1,081	1,393	3,277	419	388	--	159	--
Transportation and public utilities	6,468	590	673	68	1,503	1,367	160	1,487	457	--	165	--
Wholesale and retail trade	19,794	406	3,754	4,123	3,609	1,490	964	677	1,190	--	3,580	--
Wholesale trade	3,792	141	742	687	822	373	212	334	248	--	31	--
Retail trade	16,001	267	3,011	3,435	2,787	1,116	752	342	942	--	3,549	--
Finance, insurance, and real estate	5,918	351	1,119	1,282	2,708	107	11	7	52	--	281	--
Services	28,671	10,795	2,152	187	5,285	1,476	789	255	461	1,053	6,221	--
Private households	1,252	24	4	--	10	2	5	10	109	1,053	36	--
Other service industries	27,419	10,771	2,148	187	5,275	1,474	784	245	352	--	6,185	--
Public administration	5,245	1,083	746	4	1,830	248	55	45	131	--	1,103	--

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
	Nov. 1979				Nov. 1980		Paid absence ²		Unpaid absence^{2}
			Nov. 1979	Nov. 1980			Nov. 1979	Nov. 1980	Nov. 1979	Nov. 1980
Total, 16 years and over	3,856	3,609	2,739	3,492	1,776	1,616	1,543	1,404
Vacation	1,512	1,281	1,471	1,254	1,038	898	299	228
Illness	1,374	1,381	1,336	1,346	566	519	667	653
Bad weather	47	41	41	31	--	--	--	--
Industrial dispute	137	74	137	73	--	--	--	--
All other reasons	786	631	753	788	172	200	577	482
Males, 16 years and over	2,309	2,055	2,213	1,956	1,149	1,007	817	678
Vacation	1,007	821	974	800	708	603	167	122
Illness	786	750	757	720	348	266	350	355
All other reasons ³	516	484	482	436	93	118	300	201
Females, 16 years and over	1,548	1,554	1,526	1,536	627	609	728	726
Vacation	504	461	497	454	330	295	134	106
Illness	588	631	579	627	218	232	316	339
All other reasons ³	455	462	450	455	79	82	278	281

¹Excludes private household workers.

³Includes bad weather and industrial dispute, not shown separately.

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

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

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

Hours of work	November 1980					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total, 16 years and over	94,152	51,095	3,098	100.0	100.0	100.0
1-34 hours	27,602	26,667	935	29.3	29.3	30.2
1-4 hours	766	729	39	.8	.8	1.3
5-14 hours	4,554	4,375	219	4.9	4.8	7.1
15-29 hours	12,237	11,764	473	13.0	12.9	15.3
30-34 hours	10,003	5,799	204	10.6	10.8	6.6
35 hours and over	66,550	64,427	2,162	70.7	70.7	65.8
35-39 hours	6,260	6,134	126	6.6	6.7	4.1
40 hours	37,100	36,598	501	39.4	40.2	16.2
41 hours and over	23,230	21,695	1,535	24.7	23.8	45.6
41 to 48 hours	9,127	8,658	269	9.7	9.7	6.7
49 to 59 hours	7,966	7,524	444	8.5	8.3	14.3
60 hours and over	6,137	5,313	822	6.5	5.8	26.5
Average hours, total at work	37.9	37.7	44.4	--	--	--
Average hours, workers on full-time schedules	42.4	42.1	53.2	--	--	--

HOUSEHOLD DATA

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

(Numbers in thousands)

Reason for working less than 35 hours	November 1980					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over	27,602	11,115	16,486	26,667	10,771	15,895
Economic reasons	4,211	1,735	2,476	3,502	1,532	2,370
Slack work	2,212	1,380	832	1,978	1,203	775
Material shortages or repairs to plant and equipment	61	61	--	61	61	--
New job started during week	195	195	--	171	171	--
Job terminated during week	99	99	--	97	97	--
Could find only part-time work	1,645	--	1,645	1,596	--	1,596
Other reasons	23,389	9,379	14,010	22,766	9,241	13,525
Does not want, or unavailable for, full-time work	11,882	--	11,882	11,503	--	11,503
Vacation	1,016	1,016	--	1,007	1,007	--
Illness	1,760	1,594	166	1,713	1,564	149
Bad weather	241	241	--	201	201	--
Industrial dispute	32	32	--	32	32	--
Legal or religious holiday	5,114	5,114	--	5,107	5,107	--
Full time for this job	1,412	--	1,412	1,356	--	1,356
All other reasons	1,933	1,384	549	1,846	1,330	516
Average hours:						
Economic reasons	21.7	23.9	20.2	21.8	24.2	20.3
Other reasons	22.5	28.4	18.5	22.5	28.4	18.5
Worked 30 to 34 hours:						
Economic reasons	1,283	729	554	1,208	680	528
Other reasons	8,720	6,459	2,261	8,591	6,394	2,197

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

(Numbers in thousands)

Industry	November 1980								Average hours, total at work	Average hours, workers on full-time schedules
	Total at work	On part time for economic reasons	On voluntary part time	Full- or part-time status						
				On full-time schedules						
				Total	40 hours or less	41 to 48 hours	49 hours or more			
Total, 16 years and over ¹	91,095	3,902	13,525	73,668	51,973	8,858	12,637	37.7	42.1	
Wage and salary workers	84,266	3,430	12,283	68,553	49,669	8,290	10,594	37.5	41.6	
Construction	4,826	386	264	4,176	3,185	430	561	38.0	40.7	
Manufacturing	20,187	535	678	18,970	13,752	2,753	2,465	40.5	41.7	
Durable goods	12,170	213	276	11,681	8,490	1,684	1,507	40.9	41.7	
Nondurable goods	8,017	325	401	7,291	5,266	1,068	557	39.8	41.6	
Transportation and public utilities	5,823	179	392	5,252	3,722	657	873	39.9	42.1	
Wholesale and retail trade	17,327	982	4,608	11,737	7,596	1,812	2,329	35.5	43.0	
Finance, insurance, and real estate	5,252	113	585	4,554	3,491	489	574	37.7	40.4	
Service industries	24,958	1,142	5,413	18,403	13,716	1,690	2,997	35.4	41.5	
Private households	1,135	177	631	331	226	30	75	22.9	44.7	
All other industries	23,819	965	4,782	18,072	13,490	1,660	2,922	36.0	41.4	
Public administration	5,028	67	326	4,633	3,712	355	566	37.5	39.1	
Self-employed workers	6,463	459	1,094	4,910	2,171	556	2,183	41.1	48.5	
Unpaid family workers	365	13	147	205	134	11	60	34.7	44.3	

¹ Includes mining, not shown separately.

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

(Numbers in thousands)

Sex, age, race, and marital status	November 1980							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	51,055	3,902	13,525	73,668	51,973	21,695	37.7	42.1
16 to 21 years	11,538	892	4,740	5,906	4,695	1,211	29.1	40.4
16 to 19 years	6,655	525	3,673	2,453	1,998	455	25.2	39.9
16 to 17 years	2,525	123	2,188	214	192	22	17.3	37.6
18 to 19 years	4,130	406	1,485	2,239	1,806	433	30.1	40.1
20 years and over	84,435	3,373	9,852	71,214	49,974	21,240	38.7	42.2
20 to 24 years	12,888	784	2,050	10,054	7,616	2,438	36.4	41.1
25 years and over	71,551	2,590	7,802	61,159	42,357	18,802	39.1	42.3
25 to 44 years	43,856	1,665	4,035	38,196	26,138	12,058	39.6	42.5
45 to 64 years	25,219	839	2,575	21,805	15,443	6,362	39.2	42.1
65 years and over	2,436	85	1,192	1,159	777	382	29.0	42.0
Males, 16 years and over	51,237	1,726	4,048	45,463	28,874	16,585	40.8	43.5
16 to 21 years	5,772	376	2,162	3,232	2,380	852	30.9	41.5
16 to 19 years	3,256	222	1,705	1,371	1,049	322	26.8	40.8
16 to 17 years	1,256	64	1,060	132	115	17	18.2	39.3
18 to 19 years	2,042	158	645	1,239	934	305	32.1	41.0
20 years and over	47,935	1,504	2,342	44,093	27,826	16,267	41.7	43.6
20 to 24 years	6,664	355	787	5,518	3,795	1,723	38.4	42.4
25 years and over	41,275	1,146	1,555	38,574	24,029	14,545	42.3	43.8
25 to 44 years	25,116	767	479	23,872	14,495	9,377	43.0	44.1
45 to 64 years	14,752	335	432	13,981	9,087	4,894	42.1	43.3
65 years and over	1,405	37	645	723	448	275	30.6	43.2
Females, 16 years and over	35,656	2,177	9,477	28,204	23,098	5,106	33.8	39.7
16 to 21 years	5,765	514	2,577	2,674	2,314	360	27.3	39.0
16 to 19 years	3,357	307	1,967	1,083	950	133	23.7	38.7
16 to 17 years	1,269	59	1,128	82	77	5	16.4	35.0
18 to 19 years	2,088	246	839	1,001	872	129	28.0	39.0
20 years and over	36,501	1,665	7,510	27,122	22,149	4,973	34.7	39.8
20 to 24 years	6,225	424	1,263	4,538	3,822	716	34.2	39.6
25 years and over	30,277	1,444	6,247	22,586	18,329	4,257	34.7	39.8
25 to 44 years	18,775	897	3,558	14,324	11,640	2,684	35.0	39.7
45 to 64 years	10,467	500	2,143	7,824	6,356	1,468	35.1	40.0
65 years and over	1,031	48	547	436	329	107	26.8	40.0
RACE								
White	80,782	3,280	12,373	65,129	44,535	20,194	37.8	42.3
Males	45,971	1,466	3,684	40,821	25,295	15,526	41.0	43.7
Females	34,811	1,814	8,689	24,308	19,240	4,668	33.6	39.8
Black and other	10,313	623	1,152	8,538	7,037	1,501	36.9	40.4
Males	5,266	260	364	4,642	3,579	1,063	39.0	41.6
Females	5,047	363	787	3,897	3,458	439	34.6	39.1
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	35,176	846	1,241	33,089	20,286	12,803	42.5	43.9
Widowed, divorced, or separated	4,328	210	199	3,919	2,537	1,382	41.4	43.6
Single (never married)	11,733	665	2,608	8,456	6,053	2,403	35.4	42.1
Females, 16 years and over:								
Married, spouse present	22,282	1,137	5,420	15,725	13,077	2,648	33.7	39.5
Widowed, divorced, or separated	7,586	425	1,105	6,056	4,739	1,317	36.4	40.4
Single (never married)	9,590	615	2,952	6,423	5,282	1,141	31.8	39.7

HOUSEHOLD DATA

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

[Numbers in thousands]

Occupation and sex	November 1980								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	51,668	3,542	13,627	74,099	52,203	8,908	12,988	37.7	42.1
White-collar workers	49,640	1,272	7,445	41,123	28,393	4,601	6,129	38.2	42.2
Professional and technical	15,541	258	1,888	13,355	9,091	1,501	2,763	38.8	42.2
Managers and administrators, except farm	10,607	120	528	9,959	5,140	1,344	3,475	44.4	46.0
Sales workers	6,043	276	1,590	4,177	2,584	566	1,027	35.9	43.5
Clerical workers	17,648	578	3,439	13,631	11,577	1,190	664	34.6	39.1
Blue-collar workers	29,456	1,660	2,076	25,722	18,275	3,579	3,868	39.3	42.0
Craft and kindred workers	11,929	570	471	10,888	7,582	1,554	1,752	40.1	42.0
Operatives, except transport	10,050	551	571	8,928	6,709	1,257	562	39.2	41.4
Transport equipment operatives	3,363	200	310	2,853	1,617	427	809	41.4	45.2
Nonfarm laborers	4,116	338	723	3,055	2,369	342	344	35.2	41.0
Service workers	12,370	1,010	4,106	7,254	5,535	728	991	32.2	41.9
Private household	1,011	138	554	319	222	29	68	23.5	43.8
Other service workers	11,359	872	3,553	6,934	5,311	699	924	32.9	41.8
Males, 16 years and over	51,667	1,753	4,104	45,810	29,044	6,216	10,550	40.8	43.5
White-collar workers	23,090	304	1,569	21,217	12,166	2,741	6,310	42.5	44.6
Professional and technical	6,567	104	525	7,938	4,984	897	2,057	41.6	43.4
Managers and administrators, except farm	7,800	82	194	7,524	3,525	1,026	2,973	46.1	47.0
Sales workers	3,264	50	416	2,798	1,508	418	872	41.2	45.0
Clerical workers	3,460	69	434	2,957	2,151	399	407	38.1	41.4
Blue-collar workers	23,627	1,225	1,409	21,193	14,505	3,067	3,621	40.0	42.5
Craft and kindred workers	11,154	525	365	10,264	7,095	1,488	1,681	40.3	42.0
Operatives, except transport	5,589	233	264	5,492	3,822	847	823	40.8	42.6
Transport equipment operatives	3,094	175	195	2,724	1,510	417	757	42.5	45.5
Nonfarm laborers	3,551	292	586	2,713	2,080	315	318	35.6	41.2
Service workers	4,750	224	1,126	3,400	2,373	408	619	36.1	43.3
Private household	21	2	8	11	6	3	2	34.7	53.6
Other service workers	4,730	222	1,118	3,390	2,368	405	617	36.1	43.3
Females, 16 years and over	39,559	2,167	9,522	28,290	23,159	2,693	2,438	33.7	39.7
White-collar workers	26,749	966	5,875	19,908	16,230	1,860	1,818	34.4	39.6
Professional and technical	6,574	154	1,363	5,417	4,108	604	705	35.4	40.3
Managers and administrators, except farm	2,608	38	333	2,437	1,618	318	501	39.7	42.7
Sales workers	2,779	225	1,174	1,380	1,078	148	154	29.6	40.4
Clerical workers	14,168	509	3,005	10,674	9,427	790	457	33.8	38.4
Blue-collar workers	5,631	435	667	4,529	3,769	513	247	36.1	39.6
Craft and kindred workers	775	45	107	623	488	65	70	37.1	40.9
Operatives, except transport	4,062	318	307	3,437	2,888	411	138	36.9	39.4
Transport equipment operatives	269	25	115	129	106	10	13	28.7	38.7
Nonfarm laborers	525	46	138	341	288	27	26	32.6	40.0
Service workers	7,619	766	2,980	3,853	3,160	320	373	29.7	40.6
Private household	590	136	546	308	216	26	66	23.3	43.5
Other service workers	6,629	650	2,435	3,544	2,943	294	307	30.7	40.3

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

[Numbers in thousands]

Employment status	November 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,458	3,793	3,665	6,185	3,154	3,031	1,274	640	634
Civilian labor force	1,117	597	520	1,052	560	492	65	37	28
Employed	983	526	457	952	509	442	31	16	15
Agriculture	88	62	27	87	62	24	2	--	2
Nonagricultural industries	895	464	431	865	447	418	29	17	13
Unemployed	134	72	62	100	50	50	34	21	13
Unemployment rate	12.0	12.1	11.9	9.5	8.9	10.1	(1)	(1)	(1)
Not in labor force	6,341	3,196	3,145	5,133	2,594	2,539	1,209	602	606
Keeping house	40	10	31	35	6	28	6	3	2
Going to school	6,236	3,162	3,074	5,044	2,564	2,480	1,192	598	593
Unable to work	1	1	--	1	1	--	--	--	--
All other reasons	65	23	41	53	23	31	11	1	11

¹ Percent not shown where base is less than 75,000.

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

Class of worker and occupation	November 1980					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	983	526	457	100.0	100.0	100.0
Nonagricultural industries	895	464	431	91.0	88.2	94.1
Wage and salary workers	826	411	415	83.9	78.1	90.6
Private household workers	225	71	258	33.4	13.5	56.3
Government workers	32	19	13	3.3	3.6	2.8
Other wage and salary workers	465	321	144	47.3	61.0	31.4
Self-employed workers	64	50	14	6.5	9.5	3.1
Unpaid family workers	5	3	2	.5	.6	.4
Agriculture	88	62	27	8.9	11.8	5.9
Wage and salary workers	45	28	21	5.0	5.3	4.6
Self-employed workers	6	6	--	.6	1.1	--
Unpaid family workers	34	28	6	3.5	5.3	1.3
OCCUPATION						
Total	983	526	457	100.0	100.0	100.0
White-collar workers	287	193	94	29.2	36.7	20.6
Professional and technical	6	2	6	.8	.4	1.3
Managers and administrators, except farm	2	1	--	.2	.2	--
Sales workers	228	169	60	23.2	32.1	13.2
Clerical workers	49	21	28	5.0	4.0	6.1
Blue-collar workers	133	121	12	13.5	23.0	2.6
Craft and kindred workers	2	1	1	.2	.2	.2
Operatives, except transport	19	16	3	1.9	3.0	.7
Transport equipment operatives	3	3	--	.3	.6	--
Nonfarm laborers	105	102	7	11.1	19.4	1.5
Service workers	481	154	327	48.9	25.3	71.7
Private household workers	295	38	257	30.0	7.2	56.4
Other service workers	186	116	70	18.9	22.1	15.4
Farm workers	82	57	25	8.3	10.8	5.5
Farmers and farm managers	3	2	--	.3	.4	--
Farm laborers and supervisors	79	55	24	8.0	10.5	5.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Employment status, sex, and age	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
TOTAL													
Total noninstitutional population ¹	164,682	164,898	165,101	165,298	165,506	165,693	165,886	166,105	166,391	166,578	166,789	167,005	167,201
Armed Forces ¹	2,092	2,089	2,081	2,086	2,090	2,092	2,088	2,092	2,099	2,114	2,121	2,121	2,119
Civilian noninstitutional population ¹	162,589	162,809	163,020	163,211	163,416	163,601	163,799	164,013	164,293	164,464	164,667	164,884	165,082
Civilian labor force.....	103,652	103,999	104,229	104,260	104,094	104,419	105,142	104,542	105,203	105,025	105,034	105,180	105,320
Percent of civilian population.....	63.8	63.9	63.5	63.9	63.7	63.8	64.2	63.7	64.0	63.5	63.8	63.8	63.8
Employed.....	97,606	97,912	97,804	97,953	97,656	97,154	96,988	96,537	96,996	97,006	97,207	97,176	97,396
Percent of total population.....	59.3	59.4	59.2	59.3	59.0	58.6	58.5	58.1	58.3	58.2	58.3	58.2	58.3
Agriculture.....	3,385	3,355	3,270	3,326	3,358	3,242	3,379	3,191	3,257	3,180	3,442	3,324	3,342
Nonagricultural industries.....	94,223	94,553	94,534	94,626	94,298	93,912	93,609	93,346	93,739	93,826	93,765	93,851	94,054
Unemployed.....	6,044	6,087	6,425	6,307	6,438	7,265	8,154	8,006	8,207	8,019	7,827	8,005	7,924
Unemployment rate.....	5.8	5.9	6.2	6.0	6.2	7.0	7.8	7.7	7.8	7.6	7.5	7.6	7.5
Not in labor force.....	58,937	58,810	58,791	58,951	58,322	59,182	58,657	59,471	59,091	59,439	59,633	59,704	59,762
Males, 20 years and over													
Total noninstitutional population ¹	70,487	70,594	70,695	70,792	70,896	70,988	71,083	71,190	71,326	71,430	71,544	71,661	71,768
Civilian noninstitutional population ¹	68,804	68,940	69,047	69,140	69,238	69,329	69,428	69,532	69,664	69,756	69,864	69,987	70,095
Civilian labor force.....	54,709	54,781	54,855	54,938	54,996	55,114	55,467	55,220	55,398	55,474	55,547	55,504	55,593
Percent of civilian population.....	79.5	79.5	79.4	79.6	79.4	79.5	79.9	79.4	79.5	79.5	79.5	79.3	79.3
Employed.....	52,374	52,478	52,275	52,531	52,300	51,868	51,796	51,510	51,668	51,792	51,803	51,963	52,074
Percent of total population.....	74.3	74.3	73.9	74.2	73.8	73.1	72.9	72.4	72.4	72.5	72.4	72.5	72.6
Agriculture.....	2,438	2,427	2,381	2,435	2,394	2,320	2,384	2,270	2,292	2,286	2,398	2,355	2,399
Nonagricultural industries.....	49,936	50,051	49,892	50,096	49,906	49,548	49,412	49,240	49,376	49,506	49,405	49,607	49,675
Unemployed.....	2,335	2,303	2,577	2,507	2,696	3,246	3,671	3,710	3,730	3,682	3,744	3,541	3,519
Unemployment rate.....	4.3	4.2	4.7	4.6	4.9	5.9	6.6	6.7	6.7	6.6	6.7	6.4	6.3
Not in labor force.....	14,095	14,159	14,192	14,102	14,242	14,215	13,961	14,312	14,266	14,282	14,317	14,483	14,502
Females, 20 years and over													
Total noninstitutional population ¹	77,547	77,666	77,779	77,890	78,005	78,110	78,219	78,340	78,493	78,607	78,732	78,860	78,979
Civilian noninstitutional population ¹	77,426	77,542	77,656	77,766	77,876	77,981	78,090	78,211	78,360	78,473	78,598	78,723	78,842
Civilian labor force.....	39,445	39,659	39,876	39,857	39,751	40,137	40,246	40,125	40,471	40,589	40,297	40,486	40,613
Percent of civilian population.....	50.9	51.1	51.4	51.3	51.0	51.5	51.5	51.3	51.6	51.7	51.3	51.4	51.5
Employed.....	37,246	37,402	37,574	37,604	37,496	37,602	37,576	37,530	37,769	37,961	37,824	37,716	37,912
Percent of total population.....	48.0	48.2	48.3	48.3	48.1	48.1	48.0	47.9	48.1	48.3	48.0	47.8	48.0
Agriculture.....	612	562	540	567	582	552	616	541	565	546	607	572	546
Nonagricultural industries.....	36,636	36,820	37,034	37,037	36,914	37,051	36,960	36,989	37,204	37,413	37,216	37,144	37,366
Unemployed.....	2,197	2,257	2,304	2,254	2,255	2,534	2,670	2,596	2,702	2,628	2,473	2,771	2,702
Unemployment rate.....	5.6	5.7	5.8	5.7	5.7	6.3	6.6	6.5	6.7	6.5	6.1	6.8	6.7
Not in labor force.....	37,981	37,883	37,776	37,909	38,125	37,844	37,844	38,086	37,889	37,884	38,301	38,237	38,229
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,648	16,638	16,627	16,616	16,606	16,595	16,584	16,575	16,572	16,541	16,512	16,484	16,454
Civilian noninstitutional population ¹	16,360	16,326	16,317	16,305	16,302	16,291	16,281	16,271	16,266	16,235	16,205	16,174	16,145
Civilian labor force.....	9,498	9,559	9,497	9,365	9,346	9,168	9,429	9,197	9,334	8,962	9,190	9,191	9,114
Percent of civilian population.....	58.1	58.6	58.2	57.4	57.3	56.3	57.9	56.5	57.4	55.2	56.7	56.8	56.5
Employed.....	7,986	8,032	7,952	7,818	7,859	7,683	7,616	7,497	7,560	7,253	7,580	7,498	7,410
Percent of total population.....	48.0	48.3	47.8	47.1	47.3	46.3	45.9	45.2	45.6	43.8	45.9	45.5	45.0
Agriculture.....	335	350	344	325	381	370	379	380	401	346	437	398	397
Nonagricultural industries.....	7,651	7,682	7,608	7,493	7,478	7,313	7,237	7,117	7,159	6,907	7,143	7,100	7,013
Unemployed.....	1,512	1,527	1,545	1,547	1,487	1,485	1,813	1,700	1,774	1,709	1,610	1,693	1,704
Unemployment rate.....	15.5	16.0	16.3	16.5	15.9	16.2	19.2	18.5	19.0	19.1	17.5	18.4	18.7
Not in labor force.....	6,862	6,767	6,820	6,940	6,956	7,123	6,852	7,074	6,934	7,273	7,015	6,983	7,031

¹ 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 status	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	88,469	88,576	88,627	88,747	88,604	89,121	89,852	89,152	89,438	89,291	89,917	89,955	90,086
Employed	83,699	83,785	83,581	83,805	83,436	83,246	83,112	82,532	82,658	82,691	83,387	83,401	83,475
Unemployed	4,770	4,791	5,046	4,942	5,168	5,875	6,740	6,621	6,781	6,600	6,530	6,553	6,611
Unemployment rate	5.4	5.4	5.7	5.6	5.8	6.6	7.5	7.4	7.6	7.4	7.3	7.3	7.3
PART TIME													
Total, 16 years and over:													
Civilian labor force	15,158	15,411	15,666	15,551	15,398	15,290	15,266	15,511	15,911	15,720	15,037	15,208	15,239
Employed	13,906	14,102	14,302	14,168	14,123	13,927	13,845	14,144	14,528	14,373	13,742	13,779	13,933
Unemployed	1,252	1,309	1,364	1,383	1,275	1,363	1,417	1,367	1,384	1,347	1,295	1,429	1,306
Unemployment rate	8.3	8.5	8.7	8.9	8.3	8.9	9.3	8.8	8.7	8.6	8.6	9.4	8.6

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

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

(Numbers in thousands)

Race, sex, and age	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
WHITE													
Total, 16 years and over:													
Civilian labor force	91,242	91,579	91,852	91,977	91,821	92,083	92,535	92,096	92,456	92,294	92,337	92,550	92,559
Employed	86,571	86,894	86,895	87,081	86,822	86,385	86,148	85,792	86,063	85,981	86,315	86,391	86,416
Unemployed	4,671	4,685	4,957	4,896	4,999	5,698	6,386	6,303	6,392	6,313	6,021	6,159	6,144
Unemployment rate	5.1	5.1	5.4	5.3	5.4	6.2	6.9	6.8	6.9	6.8	6.5	6.7	6.6
Males, 20 years and over:													
Civilian labor force	48,754	48,811	48,964	49,170	49,093	49,201	49,525	49,323	49,388	49,373	49,437	49,501	49,487
Employed	46,939	47,025	46,950	47,205	46,922	46,610	46,597	46,366	46,420	46,453	46,519	46,691	46,697
Unemployed	1,815	1,786	2,014	1,964	2,171	2,591	2,928	2,957	2,967	2,920	2,919	2,810	2,790
Unemployment rate	3.7	3.7	4.1	4.0	4.4	5.3	5.9	6.0	6.0	5.9	5.9	5.7	5.6
Females, 20 years and over:													
Civilian labor force	33,979	34,205	34,411	34,444	34,361	34,668	34,650	34,589	34,785	34,916	34,768	34,870	34,968
Employed	32,310	32,452	32,654	32,668	32,704	32,757	32,649	32,589	32,743	32,883	32,868	32,823	32,954
Unemployed	1,669	1,713	1,757	1,776	1,677	1,911	2,001	2,000	2,042	2,032	1,900	2,046	2,014
Unemployment rate	4.9	5.0	5.1	5.2	4.9	5.5	5.8	5.8	5.9	5.8	5.5	5.9	5.8
Both sexes, 16 to 19 years:													
Civilian labor force	8,509	8,563	8,477	8,363	8,347	8,214	8,359	8,183	8,223	8,006	8,131	8,180	8,105
Employed	7,322	7,377	7,291	7,207	7,156	7,018	6,902	6,837	6,900	6,645	6,928	6,877	6,765
Unemployed	1,187	1,186	1,186	1,156	1,151	1,196	1,457	1,346	1,323	1,361	1,203	1,303	1,340
Unemployment rate	13.9	13.8	14.0	13.8	13.8	14.6	17.4	16.4	16.7	17.0	14.8	15.9	16.5
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	12,391	12,432	12,453	12,362	12,266	12,319	12,559	12,446	12,739	12,650	12,680	12,737	12,734
Employed	11,044	11,024	10,979	10,937	10,823	10,771	10,813	10,751	10,932	10,930	10,882	10,911	10,956
Unemployed	1,347	1,408	1,474	1,424	1,443	1,549	1,746	1,695	1,807	1,719	1,798	1,826	1,779
Unemployment rate	10.9	11.3	11.8	11.5	11.8	12.6	13.9	13.6	14.2	13.6	14.2	14.3	14.0
Males, 20 years and over:													
Civilian labor force	5,927	5,954	5,925	5,914	5,883	5,897	5,922	5,945	6,049	6,064	6,052	6,061	6,068
Employed	5,429	5,439	5,358	5,368	5,334	5,254	5,211	5,195	5,278	5,311	5,237	5,329	5,346
Unemployed	498	515	567	546	548	643	711	750	771	773	815	732	722
Unemployment rate	8.4	8.6	9.6	9.2	9.3	10.9	12.0	12.6	12.7	12.7	13.5	12.1	11.9
Females, 20 years and over:													
Civilian labor force	5,455	5,467	5,493	5,414	5,394	5,477	5,577	5,508	5,633	5,636	5,563	5,669	5,655
Employed	4,937	4,921	4,944	4,928	4,826	4,852	4,915	4,905	4,984	5,037	4,987	4,956	4,965
Unemployed	518	546	549	486	568	624	661	603	649	598	576	713	690
Unemployment rate	9.5	10.0	10.0	9.0	10.5	11.4	11.9	10.9	11.5	10.6	10.4	12.6	12.2
Both sexes, 16 to 19 years:													
Civilian labor force	1,009	1,011	1,035	1,034	990	946	1,060	993	1,057	930	1,065	1,007	1,012
Employed	678	664	677	642	663	664	667	651	670	582	658	626	645
Unemployed	331	347	358	392	327	282	373	342	387	348	407	381	367
Unemployment rate	32.8	34.3	34.6	37.9	33.0	29.8	35.2	34.4	36.6	37.4	38.2	37.8	36.3

HOUSEHOLD DATA SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Category	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
CHARACTERISTIC													
Total (all civilian workers)	5.8	5.9	6.2	6.0	6.2	7.0	7.8	7.7	7.8	7.6	7.5	7.6	7.5
Males, 20 years and over	4.3	4.2	4.7	4.6	4.9	5.9	6.6	6.7	6.7	6.6	6.7	6.4	6.3
Females, 20 years and over	5.6	5.7	5.8	5.7	5.7	6.3	6.6	6.5	6.7	6.5	6.1	6.6	6.7
Both sexes, 16-19 years	15.9	16.0	16.3	16.5	15.9	16.2	19.2	18.5	19.0	19.1	17.5	18.4	18.7
White	5.1	5.1	5.4	5.3	5.4	6.2	6.9	6.8	6.5	6.8	6.5	6.7	6.6
Black and other	10.9	11.3	11.8	11.5	11.8	12.6	13.9	13.6	14.2	13.6	14.2	14.3	14.0
Married men, spouse present	2.9	2.8	3.4	3.1	3.4	4.1	4.7	4.9	5.1	4.9	4.8	4.6	4.3
Married women, spouse present	4.8	5.0	5.2	5.4	5.3	5.7	6.3	6.1	6.2	6.1	5.6	6.1	5.7
Women who maintain families	8.4	8.4	9.2	8.8	8.7	9.3	8.3	8.4	8.5	8.9	8.5	10.4	9.9
Full-time workers	5.4	5.4	5.7	5.6	5.8	6.6	7.5	7.4	7.6	7.4	7.3	7.3	7.3
Part-time workers	8.3	8.5	8.7	8.9	8.3	8.9	9.3	8.8	8.7	8.6	8.6	9.4	8.6
Unemployed 15 weeks and over ¹	1.1	1.2	1.3	1.2	1.3	1.6	1.6	1.7	1.8	2.1	2.2	2.2	2.2
Labor force time lost ²	6.4	6.4	6.7	6.6	6.8	7.5	8.8	8.3	8.5	8.3	8.2	8.4	8.3
OCCUPATION													
White-collar workers	3.2	3.3	3.4	3.4	3.3	3.7	3.9	3.7	3.7	3.7	3.7	4.0	3.9
Professional and technical	2.4	2.3	2.2	2.3	2.3	2.4	2.7	2.6	2.4	2.3	2.4	2.7	2.5
Managers and administrators, except farm	1.9	2.0	1.9	2.2	2.4	2.6	2.7	2.4	2.5	2.4	2.4	2.6	2.4
Sales workers	3.7	3.8	4.4	4.5	4.0	4.7	4.5	4.4	4.2	4.1	4.2	4.6	5.0
Clerical workers	4.4	4.6	4.8	4.7	4.5	5.1	5.4	5.3	5.4	5.4	5.4	5.6	5.5
Blue-collar workers	7.5	7.2	8.0	7.7	8.0	9.7	11.3	11.5	11.5	11.4	10.9	10.8	10.5
Craft and kindred workers	4.9	4.4	4.9	4.8	5.4	6.7	8.1	8.0	7.4	8.1	7.7	7.0	6.9
Operatives, except transport	5.0	5.0	9.9	9.2	9.3	11.6	14.0	13.8	14.6	13.6	13.0	13.2	12.9
Transport equipment operatives	5.2	5.0	6.9	6.7	6.6	8.9	9.0	10.5	10.5	10.0	10.6	10.5	10.1
Nonfarm laborers	12.2	12.2	12.3	12.0	13.0	14.1	15.4	16.2	16.1	16.5	15.1	15.3	14.9
Service workers	6.6	6.6	6.9	6.9	7.1	8.0	8.5	8.1	8.4	8.6	8.1	8.3	8.3
Farm workers	4.5	4.3	4.4	3.9	4.0	5.0	4.8	4.2	4.8	5.6	4.3	4.5	3.9
INDUSTRY													
Nonagricultural private wage and salary workers ³	5.8	5.8	6.2	6.0	6.2	7.1	8.2	8.3	8.2	8.0	7.8	7.9	7.8
Construction	10.2	10.3	10.8	10.5	13.0	15.1	17.5	16.5	16.1	18.3	16.5	14.3	14.7
Manufacturing	5.9	5.5	6.7	6.4	6.5	7.9	9.9	9.9	10.3	9.3	9.1	9.3	8.8
Durable goods	5.6	5.5	6.7	6.3	6.4	8.3	10.5	11.2	11.2	10.2	10.1	9.4	8.9
Nondurable goods	6.3	6.4	6.8	6.7	6.7	7.4	8.8	8.0	8.6	7.9	7.7	9.2	8.5
Transportation	4.2	4.1	4.4	4.4	3.8	4.6	5.1	5.2	5.8	5.7	5.4	5.3	4.8
Wholesale and retail trade	6.5	6.4	6.6	6.4	6.3	7.0	7.6	8.0	7.5	7.6	7.6	7.7	8.3
Finance and service industries	4.6	4.7	4.6	4.6	4.9	5.1	5.7	5.7	5.7	5.6	5.3	5.7	5.4
Government workers	3.6	3.6	3.8	4.0	4.2	4.4	4.2	3.5	4.1	4.0	4.1	4.6	4.2
Agricultural wage and salary workers	10.1	9.4	10.3	9.2	10.2	11.9	11.7	9.7	10.8	13.8	10.9	11.8	9.7

¹ Unemployment as a percent of the civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

[Numbers in thousands]

Weeks of unemployment	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
DURATION													
Less than 5 weeks	2,919	2,916	3,184	2,995	2,995	3,309	3,872	3,333	3,363	3,266	2,957	3,182	3,066
5 to 14 weeks	1,869	1,966	1,907	2,081	2,169	2,391	2,697	2,922	2,700	2,450	2,613	2,498	2,531
15 weeks and over	1,191	1,230	1,334	1,286	1,363	1,629	1,722	1,766	1,915	2,184	2,326	2,318	2,308
15 to 26 weeks	660	711	795	790	776	953	1,014	1,027	1,057	1,259	1,397	1,264	1,188
27 weeks and over	531	515	539	496	587	676	709	739	858	925	930	1,053	1,120
Average (mean) duration, in weeks	10.6	10.5	10.5	10.7	11.0	11.3	10.5	11.7	11.6	12.6	13.1	13.3	13.6
Median duration, in weeks	5.3	5.5	5.2	5.8	5.9	5.7	5.7	6.4	7.1	7.5	8.2	7.5	7.7
PERCENT DISTRIBUTION													
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	48.8	47.7	49.6	47.1	45.9	45.1	46.7	41.6	42.2	41.2	37.4	39.8	38.8
5 to 14 weeks	31.3	32.2	29.7	32.7	33.2	32.6	32.5	36.4	33.8	31.3	33.1	31.2	32.0
15 weeks and over	19.9	20.1	20.8	20.2	20.9	22.2	20.8	22.0	24.0	27.5	29.5	29.0	29.2
15 to 26 weeks	11.0	11.6	12.4	12.4	11.9	13.0	12.2	12.8	13.2	15.9	17.7	15.8	15.0
27 weeks and over	8.9	8.5	8.4	7.8	9.0	9.2	8.5	9.2	10.8	11.6	11.8	13.2	14.2

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-38. Unemployment rates by sex and age, seasonally adjusted

Sex and age	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	5.8	5.9	6.2	6.0	6.2	7.0	7.8	7.7	7.8	7.6	7.5	7.6	7.5
16 to 19 years	15.9	16.0	16.3	16.5	15.9	16.2	19.2	18.5	19.0	19.1	17.5	18.4	18.7
16 to 17 years	17.3	18.0	19.0	18.7	17.4	18.7	21.7	19.8	20.9	22.6	19.9	20.6	21.8
18 to 19 years	14.7	14.5	14.0	15.1	14.7	14.4	17.7	18.0	17.7	16.6	15.8	16.8	16.4
20 to 24 years	8.8	9.6	10.1	9.5	9.7	11.4	12.7	12.4	12.3	11.9	11.9	12.5	12.1
25 years and over	4.0	3.6	4.2	4.1	4.4	5.0	5.5	5.5	5.7	5.5	5.4	5.4	5.3
25 to 54 years	4.3	4.1	4.4	4.5	4.7	5.4	5.9	6.0	6.1	5.6	6.0	5.9	5.7
55 years and over	2.7	2.7	3.5	2.8	2.8	3.4	3.6	3.4	3.5	3.6	3.4	3.3	3.2
Males, 16 years and over	5.2	5.2	5.7	5.5	5.7	6.7	7.7	7.8	7.6	7.7	7.7	7.5	7.4
16 to 19 years	15.8	15.6	16.2	15.6	14.8	16.1	19.7	19.5	19.7	20.2	18.6	20.0	19.9
16 to 17 years	17.8	17.5	19.0	18.0	15.9	18.3	22.0	21.8	20.8	24.6	21.3	22.0	22.9
18 to 19 years	14.0	13.6	13.9	14.1	14.0	14.2	17.9	19.3	18.7	17.0	16.6	18.4	17.7
20 to 24 years	8.4	9.4	10.4	9.9	10.4	12.3	13.8	13.4	13.9	13.5	14.1	13.2	13.2
25 years and over	3.5	3.2	3.7	3.6	3.9	4.7	5.3	5.5	5.6	5.4	5.6	5.0	5.0
25 to 54 years	3.8	3.4	3.8	3.8	4.2	5.0	5.7	5.8	6.1	5.7	6.2	5.5	5.4
55 years and over	2.6	2.6	3.5	2.6	2.7	3.4	3.5	3.8	3.9	4.0	3.5	3.2	3.1
Females, 16 years and over	6.6	6.6	6.8	6.8	6.8	7.3	7.8	7.5	7.8	7.6	7.1	7.8	7.7
16 to 19 years	16.1	16.4	16.3	17.6	17.3	16.3	18.7	17.3	18.2	17.6	16.3	16.6	17.3
16 to 17 years	16.7	18.0	19.1	19.5	19.2	19.1	21.4	17.6	20.9	20.7	18.3	19.4	20.5
18 to 19 years	15.5	15.5	14.2	16.2	15.6	14.6	17.5	16.6	16.6	16.1	15.0	15.1	15.0
20 to 24 years	9.3	10.2	9.8	9.1	9.0	10.2	11.6	10.8	11.1	9.7	10.1	10.6	10.9
25 years and over	4.7	4.7	4.9	4.9	5.0	5.5	5.7	5.6	5.7	5.7	5.3	6.0	5.7
25 to 54 years	5.0	5.1	5.2	5.4	5.5	6.0	6.1	6.1	6.2	6.2	5.8	6.5	6.1
55 years and over	2.9	2.9	3.4	3.0	2.9	3.4	3.6	2.8	3.0	3.0	3.2	3.3	3.4

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

(Numbers in thousands)

Reason for unemployment	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	2,729	2,728	2,988	2,907	3,047	3,611	4,301	4,625	4,558	4,360	4,473	4,237	4,140
On layoff	987	544	1,015	1,031	1,129	1,424	1,944	2,117	1,975	1,692	1,809	1,727	1,397
Other job losers	1,742	1,784	1,969	1,876	1,918	2,188	2,357	2,508	2,583	2,668	2,664	2,510	2,743
Job leavers	845	800	775	813	788	926	992	898	857	891	842	865	908
Reentrants	1,698	1,771	1,797	1,784	1,803	1,967	2,015	1,822	1,868	1,895	1,817	2,045	1,894
New entrants	736	656	811	827	805	743	864	863	930	867	858	886	902
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	45.4	44.3	46.9	45.9	47.3	49.8	52.5	56.3	55.5	54.4	56.0	52.7	52.8
On layoff	16.4	15.3	16.0	16.3	17.5	19.6	23.7	25.8	24.0	21.1	22.6	21.5	17.8
Other job losers	25.0	29.0	30.9	29.6	29.8	30.2	28.8	30.6	31.5	33.3	33.3	31.2	35.0
Job leavers	14.1	15.0	12.2	12.8	12.2	12.8	12.1	10.9	10.4	11.2	10.5	10.8	11.6
Reentrants	28.3	28.6	28.2	28.2	28.0	27.1	24.6	22.2	22.7	23.6	22.7	25.5	24.2
New entrants	12.3	13.9	12.7	13.1	12.5	10.3	10.8	10.5	11.3	10.8	10.7	11.0	11.5
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.6	2.6	2.9	2.8	2.9	3.5	4.1	4.4	4.3	4.2	4.3	4.0	3.9
Job leavers	.8	.8	.7	.8	.8	.9	.9	.9	.8	.9	.8	.8	.9
Reentrants	1.6	1.7	1.7	1.7	1.7	1.9	1.9	1.7	1.8	1.8	1.7	1.9	1.8
New entrants	.7	.8	.8	.8	.8	.7	.8	.8	.9	.8	.8	.8	.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1975		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	97,608	97,512	97,804	97,953	97,656	97,154	96,988	96,537	96,996	97,006	97,207	97,176	97,396
16 to 19 years	7,986	8,032	7,952	7,818	7,659	7,683	7,616	7,497	7,560	7,253	7,580	7,498	7,410
16 to 17 years	3,315	3,320	3,247	3,120	3,185	3,039	3,033	3,038	3,068	2,771	3,009	2,966	2,901
18 to 19 years	4,694	4,717	4,726	4,722	4,660	4,640	4,566	4,440	4,500	4,460	4,604	4,532	4,525
20 to 24 years	13,920	13,837	13,819	13,846	13,749	13,624	13,575	13,376	13,527	13,540	13,535	13,632	13,615
25 years and over	75,650	76,030	76,080	76,295	76,012	75,807	75,810	75,733	75,948	76,193	76,080	76,139	76,347
25 to 54 years	61,281	61,686	61,759	61,815	61,719	61,564	61,416	61,443	61,572	61,766	61,826	61,871	62,146
55 years and over	14,368	14,350	14,292	14,464	14,326	14,298	14,325	14,277	14,351	14,469	14,259	14,234	14,154
Males, 16 years and over	56,560	56,734	56,486	56,732	56,601	55,998	55,823	55,457	55,629	55,551	55,738	55,885	55,956
16 to 19 years	4,206	4,256	4,207	4,201	4,301	4,130	4,027	3,947	3,962	3,756	3,935	3,922	3,882
16 to 17 years	1,755	1,783	1,745	1,719	1,604	1,661	1,634	1,608	1,644	1,455	1,574	1,590	1,556
18 to 19 years	2,462	2,477	2,478	2,494	2,488	2,471	2,395	2,315	2,330	2,292	2,397	2,331	2,328
20 to 24 years	7,533	7,498	7,441	7,477	7,453	7,294	7,309	7,106	7,155	7,128	7,172	7,176	7,195
25 years and over	44,756	44,966	44,883	45,070	44,633	44,557	44,535	44,422	44,531	44,667	44,626	44,823	44,849
25 to 54 years	36,020	36,206	36,161	36,136	36,036	35,818	35,747	35,707	35,767	35,873	35,964	36,115	36,164
55 years and over	8,782	8,759	8,723	8,904	8,642	8,764	8,784	8,728	8,734	8,782	8,666	8,673	8,660
Females, 16 years and over	41,028	41,178	41,316	41,221	41,054	41,156	41,165	41,079	41,367	41,455	41,469	41,291	41,440
16 to 19 years	3,780	3,776	3,744	3,617	3,358	3,554	3,589	3,549	3,598	3,495	3,645	3,575	3,528
16 to 17 years	1,560	1,537	1,502	1,401	1,381	1,378	1,399	1,430	1,424	1,312	1,435	1,376	1,345
18 to 19 years	2,232	2,240	2,246	2,228	2,172	2,165	2,171	2,125	2,170	2,168	2,207	2,201	2,197
20 to 24 years	6,387	6,339	6,377	6,369	6,296	6,331	6,266	6,270	6,372	6,413	6,363	6,457	6,420
25 years and over	30,854	31,064	31,197	31,225	31,178	31,250	31,275	31,311	31,417	31,525	31,454	31,316	31,497
25 to 54 years	25,261	25,480	25,636	25,679	25,683	25,746	25,669	25,735	25,784	25,895	25,862	25,756	25,982
55 years and over	5,586	5,591	5,565	5,560	5,484	5,533	5,541	5,549	5,617	5,687	5,593	5,561	5,494

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

[In thousands]

Sex and age	1975		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
Total, 16 years and over	6,044	6,087	6,425	6,307	6,438	7,265	8,154	8,006	8,207	8,015	7,827	8,005	7,924
16 to 19 years	1,512	1,527	1,545	1,547	1,487	1,485	1,813	1,700	1,774	1,705	1,610	1,693	1,704
16 to 17 years	692	722	764	716	671	658	841	752	809	815	747	779	810
18 to 19 years	811	802	772	841	806	780	983	976	967	887	865	915	890
20 to 24 years	1,346	1,505	1,554	1,458	1,482	1,748	1,982	1,898	1,898	1,836	1,835	1,940	1,874
25 years and over	3,166	3,040	3,326	3,300	3,463	4,029	4,374	4,423	4,552	4,462	4,384	4,365	4,293
25 to 54 years	2,744	2,650	2,818	2,899	3,064	3,518	3,836	3,900	4,032	3,905	3,943	3,888	3,783
55 years and over	403	400	512	412	410	503	529	508	528	542	500	481	472
Males, 16 years and over	3,124	3,089	3,392	3,283	3,441	4,040	4,656	4,669	4,703	4,632	4,645	4,520	4,486
16 to 19 years	789	786	815	776	745	794	985	959	973	950	901	979	967
16 to 17 years	380	390	410	377	342	373	461	447	432	476	426	448	463
18 to 19 years	402	391	395	411	405	409	521	553	535	470	476	525	502
20 to 24 years	652	782	860	817	863	1,028	1,163	1,138	1,103	1,146	1,121	1,175	1,092
25 years and over	1,642	1,505	1,719	1,680	1,626	2,214	2,500	2,573	2,641	2,550	2,622	2,378	2,381
25 to 54 years	1,405	1,262	1,410	1,435	1,573	1,886	2,155	2,217	2,317	2,183	2,364	2,100	2,084
55 years and over	237	231	314	242	246	311	322	347	354	365	317	288	281
Females, 16 years and over	2,920	2,998	3,034	3,025	2,997	3,225	3,498	3,337	3,503	3,387	3,182	3,485	3,439
16 to 19 years	723	741	730	771	742	691	828	741	801	759	709	714	737
16 to 17 years	312	338	354	339	329	325	380	305	377	343	321	331	347
18 to 19 years	405	411	373	430	401	371	462	423	432	417	389	390	388
20 to 24 years	654	723	694	641	620	721	819	761	795	690	714	765	782
25 years and over	1,526	1,535	1,607	1,621	1,637	1,815	1,874	1,850	1,911	1,912	1,762	1,991	1,912
25 to 54 years	1,339	1,368	1,406	1,465	1,491	1,631	1,682	1,684	1,715	1,722	1,579	1,788	1,699
55 years and over	166	169	198	170	165	192	207	162	174	178	183	192	191

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Category	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.
CHARACTERISTIC													
Total, 16 years and over	97,608	97,912	97,804	97,953	97,656	97,154	96,988	96,537	96,996	97,006	97,207	97,176	97,396
Married men, spouse present	38,845	38,924	38,745	38,955	38,745	38,342	38,147	38,193	37,955	37,510	37,965	38,135	38,216
Married women, spouse present	22,940	23,027	23,111	23,178	23,202	23,080	23,155	23,144	23,057	23,162	23,017	22,953	23,038
OCCUPATION													
White-collar workers	49,912	49,911	50,313	50,448	50,302	50,405	50,606	50,861	51,114	51,413	51,149	51,084	51,119
Professional and technical Managers and administrators, except farm	15,131	15,272	15,337	15,444	15,397	15,542	15,551	15,712	15,741	15,761	15,501	15,796	15,890
Sales workers	6,362	6,346	6,452	6,185	6,113	5,988	6,022	5,981	6,128	6,124	6,347	6,317	6,142
Clerical workers	17,802	17,756	17,915	17,848	18,037	18,129	18,152	18,256	18,199	18,375	18,284	18,013	18,092
Blue-collar workers	32,110	32,302	31,862	31,754	31,670	31,127	30,661	30,243	30,149	29,563	30,444	30,621	30,678
Craft and kindred workers	12,925	13,041	12,814	12,728	12,767	12,773	12,523	12,301	12,382	12,233	12,546	12,545	12,444
Operatives, except transport Transport equipment operatives	10,963	11,042	10,678	10,661	10,579	10,408	10,336	10,131	10,134	10,066	10,196	10,244	10,313
Nonfarm laborers	3,628	3,635	3,616	3,571	3,558	3,483	3,421	3,395	3,335	3,474	3,434	3,457	3,453
Service workers	4,594	4,584	4,774	4,795	4,767	4,463	4,402	4,416	4,295	4,209	4,268	4,376	4,467
Farm workers	12,899	12,970	12,975	13,080	12,981	13,034	12,932	12,930	13,045	12,917	12,917	12,863	12,851
	2,718	2,694	2,660	2,764	2,733	2,658	2,745	2,606	2,669	2,661	2,779	2,735	2,726
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,475	1,451	1,428	1,417	1,449	1,370	1,405	1,365	1,352	1,263	1,418	1,344	1,435
Self-employed workers	1,622	1,596	1,554	1,648	1,600	1,591	1,662	1,590	1,631	1,648	1,706	1,643	1,597
Unpaid family workers	310	310	293	283	300	281	289	269	252	273	315	336	335
Nonagricultural industries:													
Wage and salary workers	87,020	87,384	87,578	87,419	87,221	86,741	86,631	86,257	86,407	86,508	86,331	86,507	86,701
Government	15,358	15,397	15,414	15,540	15,622	15,668	15,799	15,891	15,760	15,455	15,538	15,565	15,638
Private industries	71,662	71,987	72,163	71,879	71,599	71,072	70,832	70,365	70,647	71,053	70,793	70,942	71,063
Private households	1,211	1,228	1,132	1,178	1,115	1,123	1,206	1,219	1,245	1,209	1,113	1,146	1,154
Other industries	70,451	70,759	71,031	70,702	70,484	69,949	69,625	69,147	69,402	69,805	69,679	69,796	69,909
Self-employed workers	6,781	6,737	6,752	6,899	6,825	6,813	6,648	6,666	6,765	6,879	7,014	7,051	6,945
Unpaid family workers	417	405	379	397	376	363	411	445	441	399	423	420	404
PERSONS AT WORK¹													
Nonagricultural industries													
Full-time schedules	88,617	89,160	89,454	89,985	88,585	87,660	87,680	87,910	87,454	88,270	88,243	88,466	88,751
Part-time for economic reasons	72,957	73,137	73,223	73,110	72,749	71,807	71,224	71,206	70,649	71,478	71,969	72,142	72,365
Usually work full-time	3,392	3,515	3,513	3,406	3,416	3,816	4,349	3,999	4,113	4,146	4,204	4,261	4,168
Usually work part-time	1,413	1,451	1,549	1,380	1,463	1,709	2,064	1,781	1,847	1,692	1,695	1,667	1,578
Part time for noneconomic reasons	1,979	2,028	1,964	2,026	1,955	2,107	2,285	2,217	2,266	2,456	2,509	2,593	2,590
	12,228	12,524	12,718	12,469	12,418	12,037	12,106	12,706	12,692	12,644	12,069	12,064	12,218

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

HOUSEHOLD DATA

A-43. Employment status of male Vietnam-era veterans and nonveterans 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			
Nov. 1975	Nov. 1980	Nov. 1975	Nov. 1980	Nov. 1975	Nov. 1980	Nov. 1975	Nov. 1980	Nov. 1975	Nov. 1980	
VETERANS										
Total, 20 years and over	8,553	8,653	8,106	8,199	7,792	7,694	314	505	3.5	6.2
20 to 24 years	477	252	438	227	384	180	54	47	12.3	20.7
25 to 39 years	7,184	7,323	6,903	7,033	6,664	6,611	239	422	3.5	6.0
25 to 29 years	1,867	1,625	1,735	1,525	1,649	1,395	90	134	5.2	8.8
30 to 34 years	3,630	3,531	3,536	3,406	3,435	3,217	101	189	2.9	5.5
35 to 39 years	1,687	2,167	1,628	2,058	1,580	1,999	48	99	2.9	4.7
40 years and over	852	1,078	765	939	744	903	21	36	2.7	3.8
NONVETERANS										
Total, 25 to 39 years	14,916	15,791	14,217	15,028	13,604	14,173	613	855	4.3	5.7
25 to 29 years	6,815	7,214	6,478	6,812	6,152	6,326	326	486	5.0	7.1
30 to 34 years	4,303	4,797	4,106	4,557	3,937	4,355	169	242	4.1	5.3
35 to 39 years	3,794	3,780	3,633	3,659	3,515	3,492	118	127	3.2	3.5

NOTE: Vietnam-era veterans are those who served between August 5, 1964 and May 1975. 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.

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

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

Year and month	Total	Goods-producing				Service-producing									
		Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1920.....	27,340	12,760	1,239	863	10,658	14,580	3,998	4,467	-	-	1,160	2,352	2,603	-	-
1925.....	28,766	12,489	1,089	1,461	9,939	16,277	3,826	5,576	-	-	1,218	2,857	2,800	-	-
1926.....	29,806	12,911	1,185	1,570	10,156	16,895	3,942	5,784	-	-	1,290	3,033	2,846	-	-
1927.....	29,962	12,738	1,114	1,623	10,001	17,224	3,895	5,908	-	-	1,352	3,154	2,915	-	-
1928.....	29,986	12,618	1,050	1,621	9,947	17,368	3,828	5,874	-	-	1,420	3,251	2,995	-	-
1929.....	31,324	13,301	1,087	1,512	10,702	18,023	3,916	6,123	-	-	1,494	3,425	3,065	533	2,532
1930.....	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931.....	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932.....	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933.....	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934.....	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935.....	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936.....	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937.....	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938.....	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939.....	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	-	-	1,447	3,502	3,995	905	3,090
1940.....	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,762	4,664	1,485	3,665	4,202	996	3,206
1941.....	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,251	1,525	3,905	4,660	1,340	3,320
1942.....	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943.....	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,175
1944.....	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,214	1,461	4,145	6,043	2,928	3,116
1945.....	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946.....	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,084	1,675	4,697	5,595	2,254	3,341
1947.....	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,485	1,728	5,025	5,474	1,892	3,582
1948.....	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949.....	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950.....	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951.....	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087
1952.....	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953.....	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954.....	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727
1956.....	52,369	21,104	822	3,039	17,243	31,266	4,244	10,858	3,018	7,840	2,389	6,497	7,278	2,209	5,069
1957.....	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958.....	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,767	7,839	2,191	5,648
1959.....	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,085	8,083	2,233	5,850
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,698	7,626	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969.....	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,759	9,437
1970.....	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971.....	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972.....	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973.....	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974.....	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975.....	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976.....	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977.....	82,471	24,346	813	3,851	19,682	58,125	4,713	18,516	4,708	13,808	4,467	15,303	15,127	2,727	12,399
1978.....	86,697	25,585	851	4,229	20,505	61,113	4,923	19,542	4,969	14,573	4,724	16,252	15,672	2,753	12,919
1979.....	89,886	26,504	960	4,483	21,062	63,882	5,141	20,269	5,204	15,066	4,974	17,078	15,920	2,773	13,147
1979: NOV.....	91,288	26,739	986	4,698	21,055	64,549	5,243	20,756	5,282	15,474	5,039	17,284	16,227	2,760	13,467
1979: DEC.....	91,394	26,508	985	4,536	20,987	64,886	5,240	21,114	5,264	15,850	5,047	17,271	16,214	2,770	13,444
1980: JAN.....	89,630	25,953	982	4,194	20,777	63,677	5,136	20,325	5,241	15,084	5,052	17,135	16,029	2,763	13,266
1980: FEB.....	89,781	25,826	987	4,109	20,730	63,955	5,130	20,155	5,250	14,905	5,061	17,317	16,292	2,803	13,489
1980: MAR.....	90,316	25,939	996	4,150	20,793	64,377	5,143	20,226	5,269	14,957	5,085	17,478	16,445	2,869	13,576
1980: APR.....	90,761	25,850	1,006	4,311	20,533	64,911	5,147	20,373	5,265	15,108	5,104	17,636	16,651	3,103	13,548
1980: MAY.....	90,849	25,745	1,024	4,471	20,250	65,104	5,167	20,497	5,263	15,234	5,137	17,747	16,556	2,963	13,593
1980: JUN.....	91,049	25,861	1,049	4,611	20,201	65,188	5,185	20,562	5,287	15,275	5,201	17,846	16,394	2,995	13,399
1980: JUL.....	89,820	25,417	1,030	4,633	19,754	64,403	5,145	20,506	5,278	15,228	5,229	17,973	15,550	2,949	12,601
1980: AUG.....	90,072	25,785	1,029	4,712	20,044	64,287	5,144	20,579	5,284	15,295	5,232	17,966	15,366	2,862	12,504
1980: SEPT.....	90,729	25,994	1,035	4,690	20,269	64,735	5,170	20,692	5,291	15,401	5,194	17,915	15,764	2,754	13,010
1980: OCT.....	91,232	26,016	1,040	4,694	20,282	65,216	5,173	20,704	5,310	15,394	5,196	17,942	16,201	2,756	13,445
1980: NOV.....	91,611	25,996	1,052	4,615	20,329	65,615	5,171	20,940	5,315	15,625	5,204	17,963	16,337	2,762	13,575

¹ Data include Alaska and Hawaii beginning 1959. This inclusion has resulted in an increase of 212,000 (0.4 percent) in nonagricultural total for the March 1959 benchmark month.

NOTE: The January through July 1980 issues contained erroneous data for "total goods-producing" for 1969 and 1970, and "total service-producing" for 1920-71. Corrections have been made in this table.

p = preliminary.

NOTE: Data from April 1979 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" in the Explanatory notes of this publication.

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
-	TOTAL	91,062	91,288	90,729	91,232	91,611	-	-	-	-	-
-	PRIVATE SECTOR	74,998	75,061	74,965	75,031	75,274	61,324	61,363	60,991	61,045	61,261
-	MINING	984	986	1,035	1,040	1,052	738	739	771	775	781
10	METAL MINING	102.8	103.9	85.5	88.6	-	78.9	79.8	64.1	66.5	-
101	Iron ores	24.6	24.6	18.9	19.2	-	19.7	19.8	14.4	14.7	-
102	Copper ores	34.3	34.8	20.0	23.8	-	26.6	27.1	15.5	18.5	-
11, 12	COAL MINING	264.1	265.5	262.8	260.6	-	219.2	220.5	217.4	214.8	-
12	BITUMINOUS COAL AND LIGNITE MINING	260.9	262.2	259.5	257.3	-	217.6	217.6	214.5	211.8	-
13	OIL AND GAS EXTRACTION	489.3	490.7	566.5	571.6	-	337.6	338.4	395.6	401.1	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	199.8	201.1	223.8	224.2	-	93.0	93.3	101.5	101.4	-
138	Oil and gas field services	289.5	289.6	342.7	347.4	-	244.6	245.1	294.1	299.7	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	127.4	125.4	120.1	118.8	-	101.8	99.8	94.1	92.7	-
142	Crushed and broken stone	42.4	41.8	38.5	38.0	-	35.9	35.1	32.2	31.6	-
144	Sand and gravel	40.4	39.1	36.8	36.4	-	-	-	-	-	-
147	Chemical and fertilizer minerals	24.8	25.2	25.3	25.2	-	-	-	-	-	-
-	CONSTRUCTION	4,792	4,698	4,690	4,694	4,615	3,871	3,771	3,722	3,726	3,645
15	GENERAL BUILDING CONTRACTORS	1,340.8	1,320.0	1,269.5	1,274.6	-	1,053.2	1,031.1	982.2	984.9	-
152	Residential building construction	635.5	621.9	601.5	607.5	-	482.9	469.5	448.7	454.6	-
153	Operative builders	88.7	86.9	70.4	71.6	-	56.9	55.3	41.6	41.9	-
154	Nonresidential building construction	616.6	611.2	597.6	595.5	-	513.4	506.3	491.9	488.4	-
16	HEAVY CONSTRUCTION CONTRACTORS	1,012.0	964.9	950.2	938.5	-	847.8	799.2	773.7	763.9	-
161	Highway and street construction	324.0	295.4	302.2	292.5	-	283.6	255.4	262.1	252.5	-
162	Heavy construction, except highway	688.0	669.5	648.0	646.0	-	564.2	543.8	511.6	511.4	-
17	SPECIAL TRADE CONTRACTORS	2,438.8	2,413.0	2,470.3	2,481.3	-	1,970.2	1,940.9	1,966.4	1,976.8	-
171	Plumbing, heating, air conditioning	575.8	576.8	592.1	595.7	-	442.3	441.9	445.9	449.6	-
172	Painting, paper hanging, decorating	166.4	161.0	163.1	164.3	-	141.7	135.4	139.3	140.1	-
173	Electrical work	425.1	426.0	441.3	441.2	-	336.2	336.1	344.1	343.0	-
174	Masonry, stonework, and plastering	390.3	385.5	392.8	397.2	-	342.1	337.1	338.7	342.9	-
175	Carpentering and flooring	134.7	130.4	128.0	128.7	-	105.3	100.1	97.6	97.8	-
176	Roofing and sheet metal work	178.8	177.7	181.9	183.0	-	147.2	146.0	148.8	150.1	-
-	MANUFACTURING	21,193	21,055	20,269	20,282	20,329	15,170	15,034	14,182	14,188	14,237
24, 25, 32-39	DURABLE GOODS	12,824	12,744	12,028	12,087	12,150	9,131	9,054	8,281	8,336	8,396
20-23, 26-31	NONDURABLE GOODS	8,369	8,311	8,241	8,195	8,179	6,039	5,980	5,901	5,852	5,841
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	780.0	757.2	689.2	687.8	684.2	666.4	643.4	577.4	576.5	572.7
241	Logging camps and logging contractors	93.4	90.0	88.6	87.1	-	78.8	75.2	72.9	71.0	-
242	Sawmills and planing mills	240.0	234.4	212.7	211.2	-	214.5	209.2	188.2	187.0	-
2421	Sawmills and planing mills, general	199.8	194.4	179.5	177.4	-	179.2	174.0	159.2	157.4	-
2426	Hardwood dimension and flooring	33.2	32.9	27.0	27.6	-	29.0	28.7	23.3	23.9	-
243	Millwork, plywood, and structural members	227.1	219.1	200.1	199.7	-	190.8	182.4	164.9	165.0	-
2431	Millwork	77.4	75.2	68.5	68.2	-	63.0	60.8	55.0	54.8	-
2434	Wood kitchen cabinets	53.5	51.2	44.7	44.9	-	45.6	43.1	36.7	36.7	-
2435	Hardwood veneer and plywood	28.1	28.1	26.0	25.7	-	25.0	24.9	22.7	22.5	-
2436	Softwood veneer and plywood	49.3	48.0	45.1	44.5	-	42.8	41.4	38.7	38.7	-
244	Wooden containers	46.5	45.3	41.4	41.6	-	40.9	39.7	35.9	36.1	-
245	Wood buildings and mobile homes	87.6	83.3	67.1	67.9	-	69.8	65.5	49.9	50.7	-
2451	Mobile homes	61.0	57.7	47.3	48.1	-	50.4	46.9	36.2	37.1	-
249	Miscellaneous wood products	85.4	85.1	79.3	80.3	-	71.6	71.4	65.6	66.7	-
25	FURNITURE AND FIXTURES	502.5	503.1	466.6	469.0	472.3	410.6	411.5	376.3	378.6	380.5
251	Household furniture	332.0	332.7	303.4	306.9	-	281.3	282.2	254.4	257.4	-
2511	Wood household furniture	150.6	150.5	141.2	142.9	-	132.3	132.2	122.2	123.7	-
2512	Upholstered household furniture	102.3	102.4	93.4	94.3	-	84.8	85.3	77.0	77.7	-
2514	Metal household furniture	30.5	32.2	25.5	26.3	-	24.6	26.0	20.3	21.1	-
2515	Mattresses and bedsprings	31.9	31.3	28.6	28.5	-	24.9	24.4	22.1	21.9	-
252	Office furniture	50.3	50.8	48.3	48.3	-	40.1	40.6	37.8	38.0	-
253	Public building and related furniture	26.5	26.4	25.0	24.6	-	20.0	20.0	18.6	18.2	-
254	Partitions and fixtures	65.2	64.6	62.5	61.6	-	49.3	48.9	46.4	45.8	-
259	Miscellaneous furniture and fixtures	28.5	28.6	27.4	27.6	-	19.9	19.8	19.1	19.2	-

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 ¹				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
32	STONE, CLAY, AND GLASS PRODUCTS	718.6	710.3	667.4	667.1	667.0	566.9	559.1	516.4	517.1	517.7
321	Flat glass	19.4	18.8	18.9	19.1	-	15.1	14.6	14.5	14.7	-
322	Glass and glassware, pressed or blown	131.7	132.0	127.0	126.7	-	112.6	112.6	107.0	106.6	-
3221	Glass containers	72.6	71.9	70.1	69.6	-	63.8	63.0	61.5	61.0	-
3229	Pressed and blown glass, nec	59.1	60.1	56.9	57.1	-	48.8	49.6	45.5	45.6	-
323	Products of purchased glass	47.3	47.0	45.4	45.8	-	34.9	34.2	31.5	32.1	-
324	Cement, hydraulic	33.4	33.5	31.7	31.2	-	26.6	26.8	25.2	24.8	-
325	Structural clay products	51.3	51.1	43.9	44.3	-	39.4	39.4	33.1	33.5	-
326	Pottery and related products	48.7	48.9	44.3	44.5	-	41.0	41.0	36.7	36.8	-
327	Concrete, gypsum, and plaster products	223.0	217.2	205.6	204.8	-	174.7	169.8	159.4	159.1	-
3271	Concrete block and brick	23.8	23.2	21.7	21.7	-	16.9	16.5	15.1	15.2	-
3272	Concrete products, nec	73.2	70.5	66.8	66.5	-	56.5	54.2	50.7	50.6	-
3273	Ready-mixed concrete	103.8	101.2	96.5	96.1	-	83.1	80.8	76.9	76.7	-
329	Misc. nonmetallic mineral products	150.9	148.2	138.3	136.5	-	112.1	110.6	99.1	99.6	-
3291	Abrasive products	29.4	29.5	27.5	27.4	-	20.2	20.2	17.9	18.1	-
3292	Asbestos products	21.8	21.1	18.3	18.3	-	16.8	16.4	14.2	14.1	-
3296	Mineral wool	34.5	34.0	33.1	33.5	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,231.4	1,222.6	1,081.8	1,090.9	1,103.9	964.1	955.3	824.1	833.6	848.2
331	Blast furnace and basic steel products	558.1	551.1	480.0	486.6	-	439.2	432.0	368.0	374.2	-
3312	Blast furnaces and steel mills	466.9	461.3	399.7	407.1	-	368.5	362.7	307.2	314.0	-
3317	Steel pipe and tubes	30.2	30.0	28.2	28.2	-	23.6	23.4	21.7	21.9	-
332	Iron and steel foundries	228.0	225.7	194.3	192.6	-	184.7	183.0	155.4	153.9	-
3321	Gray iron foundries	136.7	134.5	113.4	113.2	-	112.3	110.7	92.2	92.2	-
3322	Malleable iron foundries	18.4	18.1	14.1	14.1	-	14.5	15.0	10.5	10.5	-
3325	Steel foundries, nec	60.3	59.5	54.0	52.8	-	48.1	47.6	43.3	42.1	-
333	Primary nonferrous metals	72.3	72.4	64.6	65.5	-	55.9	55.9	47.2	47.8	-
3334	Primary aluminum	36.5	36.4	35.7	35.5	-	29.2	29.0	27.9	27.6	-
335	Nonferrous rolling and drawing	222.1	223.0	207.0	208.6	-	163.6	164.3	147.2	149.0	-
3351	Copper rolling and drawing	34.0	34.1	28.3	28.3	-	26.2	26.3	20.8	20.9	-
3353	Aluminum sheet, plate, and foil	37.2	37.0	36.5	36.8	-	28.3	28.3	27.7	28.0	-
3357	Nonferrous wire drawing and insulating	91.7	92.3	86.8	88.7	-	67.8	68.4	62.2	64.0	-
336	Nonferrous foundries	98.9	97.9	85.9	86.4	-	80.7	79.9	68.4	69.4	-
3361	Aluminum foundries	57.5	57.2	50.0	50.2	-	47.7	47.5	40.5	41.1	-
34	FABRICATED METAL PRODUCTS	1,733.8	1,733.3	1,594.5	1,604.8	1,612.9	1,309.9	1,308.5	1,176.9	1,187.7	1,195.6
341	Metal cans and shipping containers	79.6	79.6	77.3	76.2	-	66.8	66.8	65.5	64.6	-
3411	Metal cans	65.1	65.2	63.1	62.0	-	55.0	55.1	53.9	53.0	-
342	Cutlery, hand tools, and hardware	183.4	184.9	164.0	166.8	-	142.2	143.7	125.1	128.2	-
3423.5	Hand and edge tools, and hand saws and blades	64.4	65.0	57.3	58.0	-	50.6	51.0	44.0	44.9	-
3429	Hardware, nec	103.1	103.8	92.4	94.2	-	80.1	81.0	69.9	71.8	-
343	Plumbing and heating, except electric	76.8	77.6	66.4	67.3	-	57.1	57.8	47.6	48.4	-
3432	Plumbing fittings and brass goods	28.1	28.1	23.4	23.7	-	23.1	23.1	18.6	18.9	-
3433	Heating equipment, except electric	37.8	36.0	32.3	32.2	-	26.6	26.6	21.5	21.4	-
344	Fabricated structural metal products	537.8	536.1	516.3	517.9	-	380.3	380.7	355.9	357.2	-
3441	Fabricated structural metal	108.9	109.6	102.7	103.0	-	78.4	79.4	74.1	74.2	-
3442	Metal doors, sash, and trim	91.3	90.6	84.9	85.5	-	68.9	68.3	62.8	63.4	-
3443	Fabricated plate work (boiler shops)	149.9	150.3	149.0	149.1	-	97.4	97.2	91.7	91.5	-
3444	Sheet metal work	115.2	115.4	111.1	111.1	-	85.3	86.0	81.1	81.1	-
3446	Architectural metal work	31.5	31.7	33.2	33.4	-	22.8	22.8	23.4	23.7	-
345	Screw machine products, bolts, etc.	116.8	117.4	103.3	104.0	-	91.5	92.0	79.2	79.7	-
3451	Screw machine products	54.8	55.0	49.4	49.9	-	45.3	45.2	39.9	40.1	-
3452	Bolts, nuts, rivets, and washers	62.0	62.4	53.9	54.1	-	46.2	46.8	39.3	39.6	-
346	Metal forgings and stampings	302.5	297.5	253.2	258.2	-	243.2	237.9	197.1	201.9	-
3462	Iron and steel forgings	58.8	57.9	48.0	48.3	-	46.3	45.3	36.4	36.9	-
3465	Automotive stampings	111.3	107.7	84.5	88.8	-	93.1	88.9	67.7	71.8	-
3469	Metal stampings, nec	121.3	120.6	109.5	110.0	-	95.2	94.9	84.3	84.6	-
347	Metal services, nec	109.6	110.6	107.4	108.5	-	89.3	90.2	86.2	87.3	-
3471	Plating and polishing	74.1	75.0	71.5	71.9	-	61.1	61.9	58.0	58.6	-
3479	Metal coating and allied services	35.5	35.6	35.9	36.6	-	28.2	28.3	28.2	28.7	-
348	Ordinance and accessories, nec	62.9	63.3	59.4	59.3	-	42.7	42.8	39.5	39.7	-
3483	Ammunition, exc. for small arms, nec	28.4	28.6	27.7	28.0	-	19.6	19.7	19.0	19.2	-
349	Misc. fabricated metal products	264.4	264.3	247.2	246.6	-	196.8	196.6	180.8	180.7	-
3494	Valves and pipe fittings	106.2	106.6	100.9	100.2	-	73.7	73.7	68.4	68.1	-
3496	Misc. fabricated wire products	56.3	56.6	52.3	52.8	-	43.8	44.1	40.9	41.2	-
35	MACHINERY, EXCEPT ELECTRICAL	2,465.1	2,456.7	2,449.6	2,453.7	2,467.0	1,613.6	1,614.3	1,564.7	1,565.4	1,577.3
351	Engines and turbines	146.2	138.2	131.3	131.9	-	96.4	90.7	83.8	83.7	-
3511	Turbines and turbine generator sets	40.5	40.4	39.9	40.1	-	20.7	20.8	20.5	20.5	-
3519	Internal combustion engines, nec	105.7	97.8	91.4	91.8	-	75.7	69.9	63.3	63.2	-
352	Farm and garden machinery	163.9	176.4	165.8	169.0	-	112.0	125.8	115.5	118.4	-
3523	Farm machinery and equipment	142.9	154.1	148.4	150.1	-	97.3	110.1	103.6	105.1	-
353	Construction and related machinery	362.2	341.9	389.0	382.5	-	238.2	225.3	254.1	247.8	-
3531	Construction machinery	132.6	110.3	150.1	144.2	-	88.0	73.6	101.3	95.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery.....	35.1	35.3	34.0	32.9	-	22.1	22.3	20.8	19.8	-
3533	Oil field machinery.....	86.3	87.2	99.2	100.0	-	58.6	59.4	67.7	68.8	-
3535	Conveyers and conveying equipment.....	33.5	33.9	32.6	32.4	-	19.9	20.1	17.9	17.9	-
3537	Industrial trucks and tractors.....	39.7	39.7	37.6	37.4	-	27.5	27.5	24.5	24.2	-
354	Metalworking machinery.....	374.0	376.4	362.8	363.0	-	275.4	277.0	263.2	263.1	-
3541	Machine tools, metal cutting types.....	78.6	79.5	77.7	77.9	-	52.0	52.4	51.7	51.4	-
3542	Machine tools, metal forming types.....	27.5	27.8	27.0	26.7	-	18.0	18.3	17.0	16.8	-
3544	Special dies, tools, jigs, and fixtures.....	137.4	137.2	131.4	132.1	-	110.3	110.1	104.2	105.0	-
3545	Machine tool accessories.....	69.6	70.6	69.8	69.9	-	50.5	51.3	49.4	49.6	-
3546	Power driven hand tools.....	34.9	35.4	32.6	33.1	-	26.9	27.4	24.7	25.1	-
355	Special industry machinery.....	207.1	208.9	205.6	205.0	-	132.8	134.2	130.5	129.6	-
3551	Food products machinery.....	46.7	47.1	45.3	44.9	-	30.1	30.4	28.8	28.4	-
3552	Textile machinery.....	27.2	27.6	26.5	26.1	-	19.4	19.9	18.7	18.4	-
3555	Printing trades machinery.....	38.2	39.0	41.4	41.4	-	23.8	24.0	25.7	25.6	-
356	General industrial machinery.....	332.6	334.2	317.0	316.1	-	222.8	224.2	205.7	205.0	-
3561	Pumps and pumping equipment.....	64.1	64.7	61.1	59.9	-	38.8	39.5	35.9	34.9	-
3562	Ball and roller bearings.....	60.1	60.9	58.5	58.5	-	48.0	48.6	45.4	45.4	-
3563	Air and gas compressors.....	31.6	31.8	30.0	30.2	-	18.5	18.8	17.7	18.0	-
3564	Blowers and fans.....	43.2	43.2	41.1	41.0	-	28.0	28.0	25.6	25.6	-
3566	Speed changers, drives, and gears.....	27.0	27.1	25.1	25.2	-	18.5	18.6	16.8	16.9	-
3568	Power transmission equipment, nec.....	25.6	25.3	21.8	21.8	-	18.5	18.4	15.3	15.3	-
357	Office and computing machines.....	409.2	413.8	434.0	436.9	-	184.0	185.7	186.2	186.6	-
3573	Electronic computing equipment.....	331.6	335.8	356.1	358.6	-	137.8	139.4	143.2	143.5	-
358	Refrigeration and service machinery.....	184.2	181.9	165.5	168.8	-	130.4	127.5	112.3	116.0	-
3585	Refrigeration and heating equipment.....	126.1	124.3	109.9	112.5	-	90.5	88.3	74.5	77.6	-
359	Misc. machinery, except electrical.....	285.7	287.0	278.6	280.5	-	221.6	223.9	213.4	215.2	-
3592	Carburetors, pistons, rings, valves.....	43.3	43.3	38.6	39.0	-	34.3	34.5	30.2	30.7	-
3599	Machinery, except electrical, nec.....	242.4	243.7	240.0	241.5	-	187.3	189.4	183.2	184.5	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT.....	2,162.0	2,164.0	2,103.5	2,118.2	2,133.9	1,414.6	1,411.5	1,325.5	1,336.4	1,347.8
361	Electric distributing equipment.....	124.1	125.0	116.8	117.0	-	88.1	89.0	81.4	81.9	-
3612	Transformers.....	55.4	55.8	50.7	50.6	-	39.2	39.6	34.9	34.8	-
3613	Switchgear and switchboard apparatus.....	68.7	69.2	66.1	66.4	-	48.9	49.4	46.5	47.1	-
362	Electrical industrial apparatus.....	250.5	250.7	228.7	230.1	-	179.7	179.7	159.9	161.0	-
3621	Motors and generators.....	129.0	128.2	113.4	115.4	-	97.0	96.7	84.5	86.4	-
3622	Industrial controls.....	71.9	72.9	68.6	68.3	-	46.7	47.0	42.6	42.1	-
363	Household appliances.....	184.1	183.3	168.9	172.7	-	146.1	146.1	134.6	137.6	-
3632	Household refrigerators and freezers.....	38.5	38.0	34.1	35.3	-	30.9	31.0	27.1	28.2	-
3633	Household laundry equipment.....	23.9	23.7	21.5	22.2	-	18.8	18.7	16.7	17.4	-
3634	Electric housewares and fans.....	56.4	56.6	53.3	54.4	-	45.3	45.6	44.2	44.8	-
364	Electric lighting and wiring equipment.....	226.9	225.4	205.2	207.0	-	171.3	169.7	152.1	153.8	-
3641	Electric lamps.....	37.8	37.2	35.3	34.7	-	33.5	32.9	31.3	30.6	-
3643	Current-carrying wiring devices.....	93.6	94.4	88.8	89.2	-	65.4	66.2	61.3	61.6	-
3644	Noncurrent-carrying wiring devices.....	25.0	24.8	23.0	23.3	-	18.1	18.0	16.3	16.6	-
3645	Residential lighting fixtures.....	27.1	26.2	22.5	23.5	-	21.2	20.4	17.1	18.1	-
365	Radio and TV receiving equipment.....	118.0	114.7	108.7	109.7	-	88.7	85.2	78.6	79.2	-
3651	Radio and TV receiving sets.....	87.8	88.4	83.6	84.3	-	63.9	64.1	58.3	58.7	-
366	Communication equipment.....	537.4	541.7	549.7	551.9	-	270.9	272.9	267.6	267.9	-
3661	Telephone and telegraph apparatus.....	173.5	174.3	169.5	168.8	-	122.2	122.6	114.1	113.6	-
3662	Radio and TV communication equipment.....	363.9	367.4	380.2	383.1	-	148.7	150.3	153.5	154.3	-
367	Electronic components and accessories.....	542.6	545.9	555.2	555.6	-	338.1	342.6	329.2	329.1	-
3671-3	Electronic tubes.....	44.3	45.0	45.8	45.7	-	28.1	28.3	28.5	28.2	-
3674	Semiconductors and related devices.....	208.6	211.4	223.8	224.1	-	96.0	97.3	96.9	96.9	-
3679	Electronic components, nec.....	212.5	215.5	213.4	214.3	-	151.4	153.9	147.4	148.3	-
369	Misc. electrical equipment and supplies.....	178.4	173.3	170.3	174.2	-	131.7	126.3	122.1	125.9	-
3691	Storage batteries.....	33.1	33.1	33.2	34.4	-	26.6	26.5	26.1	27.1	-
3694	Engine electrical equipment.....	86.1	80.5	78.2	80.5	-	66.0	60.8	58.5	61.0	-
37	TRANSPORTATION EQUIPMENT.....	2,076.5	2,044.2	1,857.9	1,876.8	1,886.2	1,412.3	1,382.4	1,190.4	1,211.4	1,222.6
371	Motor vehicles and equipment.....	965.5	924.2	742.9	754.1	-	738.4	701.5	540.6	554.5	-
3711	Motor vehicles and car bodies.....	452.6	423.8	337.4	343.4	-	330.6	305.8	231.0	238.6	-
3713	Truck and bus bodies.....	45.1	44.3	35.7	34.9	-	35.4	34.9	26.6	25.8	-
3714	Motor vehicle parts and accessories.....	428.8	417.3	339.2	345.5	-	342.1	330.5	260.5	268.1	-
3715,6	Truck trailers and motor homes.....	39.0	38.8	30.6	30.3	-	30.3	30.3	22.5	22.0	-
372	Aircraft and parts.....	630.6	639.2	660.3	662.3	-	343.9	351.0	355.6	356.9	-
3721	Aircraft.....	343.4	347.8	357.0	359.4	-	172.6	175.9	176.5	178.2	-
3724	Aircraft engines and engine parts.....	156.3	155.1	163.9	163.2	-	88.9	91.7	91.4	90.9	-
3728	Aircraft equipment, nec.....	130.9	132.3	139.4	139.7	-	82.4	83.4	87.7	87.8	-
373	Ship and boat building and repairing.....	226.6	226.8	208.7	214.0	-	182.4	182.1	164.4	170.0	-
3731	Ship building and repairing.....	176.7	178.1	166.7	171.0	-	141.1	141.7	130.0	134.9	-
3732	Boat building and repairing.....	49.9	48.7	42.0	43.0	-	41.3	40.4	34.4	35.1	-
374	Railroad equipment.....	75.7	75.8	64.5	61.3	-	58.7	59.0	47.7	45.0	-
376	Guided missiles, space vehicles, parts.....	104.2	105.0	114.6	115.8	-	33.7	33.8	35.1	35.3	-
3761	Guided missiles and space vehicles.....	82.8	83.7	91.3	92.4	-	24.7	24.9	26.4	26.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	52.9	52.4	48.4	50.4	-	38.3	38.1	32.5	34.9	-
3792	Travel trailers and campers	30.8	30.3	26.2	27.7	-	23.5	23.2	19.7	21.6	-
38	INSTRUMENTS AND RELATED PRODUCTS	694.6	694.9	695.5	695.9	700.6	419.6	419.2	413.1	412.7	416.3
381	Engineering and scientific instruments	74.9	75.5	78.8	78.4	-	37.1	37.4	38.3	38.1	-
382	Measuring and controlling devices	237.8	238.5	234.6	234.4	-	151.5	151.0	145.0	144.8	-
3822	Environmental controls	49.4	48.4	44.2	44.3	-	34.9	34.7	30.0	30.2	-
3823	Process control instruments	51.0	51.7	51.7	52.3	-	26.3	26.8	26.9	27.3	-
3825	Instruments to measure electricity	96.5	96.5	99.1	98.4	-	60.6	59.7	59.8	59.4	-
383	Optical instruments and lenses	33.4	33.7	34.6	34.6	-	18.8	18.7	19.1	19.1	-
384	Medical instruments and supplies	141.3	143.1	145.6	146.3	-	91.2	93.2	95.0	95.0	-
3841	Surgical and medical instruments	61.0	62.3	64.5	64.7	-	38.9	40.3	42.6	42.4	-
3842	Surgical appliances and supplies	63.4	63.9	64.7	65.1	-	41.5	42.0	42.2	42.3	-
385	Ophthalmic goods	47.2	46.2	46.3	46.4	-	33.5	33.6	32.8	32.9	-
386	Photographic equipment and supplies	132.5	132.0	133.9	134.1	-	66.0	65.4	66.8	66.9	-
387	Watches, clocks, and watchcases	27.5	25.9	21.7	21.7	-	21.5	19.9	16.1	15.9	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	459.7	455.5	422.2	422.7	422.1	353.4	348.4	316.6	316.8	317.1
391	Jewelry, silverware, and plated ware	62.1	62.5	57.3	59.0	-	45.1	45.2	41.1	42.7	-
3911	Jewelry, precious metal	40.9	41.2	37.2	38.7	-	29.4	29.6	26.4	27.7	-
393	Musical instruments	23.7	23.3	20.3	20.4	-	19.5	19.1	16.2	16.3	-
394	Toys and sporting goods	132.4	128.5	118.0	117.1	-	103.8	100.0	89.5	88.4	-
3942, 4	Dolls, games, toys, and children's vehicles	69.5	65.2	60.6	59.9	-	54.2	49.7	45.6	44.6	-
3949	Sporting and athletic goods, nec	62.9	63.3	57.4	57.2	-	49.6	50.3	43.9	43.8	-
395	Pens, pencils, office and art supplies	39.5	39.8	39.1	39.2	-	28.4	28.7	27.7	27.6	-
396	Costume jewelry and notions	57.9	57.9	52.1	53.0	-	46.6	46.5	41.5	42.2	-
3961	Costume jewelry	32.0	32.0	27.4	28.7	-	25.8	25.7	21.6	22.8	-
399	Miscellaneous manufactures	144.1	143.5	135.4	134.0	-	110.0	108.9	100.6	99.6	-
3993	Signs and advertising displays	48.7	48.0	45.5	45.6	-	35.6	34.8	32.8	33.0	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,781.8	1,736.3	1,790.5	1,729.7	1,684.6	1,241.0	1,198.2	1,254.2	1,195.7	1,154.2
201	Meat products	365.1	368.2	364.9	363.2	-	305.2	306.9	304.5	302.8	-
2011	Meat packing plants	159.9	163.8	163.0	162.9	-	130.6	133.3	133.6	133.1	-
2013	Sausages and other prepared meats	70.2	70.3	69.5	67.9	-	51.4	51.7	51.3	50.2	-
2016	Poultry dressing plants	118.3	117.6	117.6	116.9	-	108.6	107.6	106.9	106.1	-
202	Dairy products	179.7	178.0	178.7	176.6	-	96.9	95.8	97.7	95.8	-
2022	Cheese, natural and processed	33.8	33.4	34.2	34.2	-	26.2	26.0	26.6	26.4	-
2026	Fluid milk	109.5	109.2	107.9	107.0	-	48.0	48.0	47.8	47.4	-
203	Preserved fruits and vegetables	281.1	241.6	317.1	253.5	-	236.3	198.4	273.3	212.2	-
2032	Canned specialties	25.5	24.9	25.6	24.8	-	18.1	17.5	19.3	18.4	-
2033	Canned fruits and vegetables	121.1	93.8	173.2	110.3	-	104.5	78.4	155.4	94.5	-
2037	Frozen fruits and vegetables	53.0	48.6	43.5	44.0	-	46.3	42.1	37.9	38.4	-
204	Grain mill products	143.6	144.0	144.0	143.5	-	99.4	99.0	99.0	98.7	-
2041	Flour and other grain mill products	25.2	25.3	25.7	25.5	-	15.7	15.8	15.4	15.1	-
2048	Prepared feeds, nec	58.9	58.9	58.8	58.6	-	39.2	39.1	38.6	38.5	-
205	Bakery products	234.7	233.9	231.3	231.0	-	138.1	137.6	135.6	135.3	-
2051	Bread, cake, and related products	189.0	189.1	186.4	185.7	-	102.3	102.6	100.0	99.4	-
2052	Cookies and crackers	45.7	44.8	44.9	45.3	-	35.8	35.0	35.6	35.9	-
206	Sugar and confectionery products	119.5	118.6	102.3	107.0	-	92.3	91.6	77.0	81.6	-
2061-3	Cane and beet sugar	33.5	32.7	23.7	26.5	-	25.0	24.5	16.5	19.1	-
2065	Confectionery products	64.7	64.8	57.0	59.4	-	52.0	52.0	45.2	47.6	-
207	Fats and oils	44.9	45.3	42.2	43.5	-	33.0	33.5	30.8	32.3	-
208	Beverages	241.7	239.4	237.1	239.9	-	111.6	110.0	106.0	107.9	-
2082	Malt beverages	51.7	52.2	53.0	52.9	-	34.9	35.1	34.6	34.4	-
2086	Bottled and canned soft drinks	141.8	140.6	145.6	143.3	-	49.1	47.9	49.3	47.6	-
209	Misc. foods and kindred products	171.5	167.9	172.9	171.5	-	128.2	125.4	130.3	129.1	-
21	TOBACCO MANUFACTURES	77.4	68.6	75.5	76.7	76.1	62.6	53.8	60.1	60.9	60.4
211	Cigarettes	45.0	44.6	44.8	45.1	-	34.7	34.3	33.8	34.0	-
22	TEXTILE MILL PRODUCTS	886.1	890.4	854.7	857.5	860.8	772.4	776.5	742.7	745.0	749.0
221	Weaving mills, cotton	150.6	153.1	150.2	149.5	-	135.5	137.8	134.5	134.1	-
222	Weaving mills, synthetics	121.7	122.0	118.1	118.4	-	109.3	109.7	106.0	106.4	-
223	Weaving and finishing mills, wool	19.5	19.7	17.6	17.5	-	16.1	16.3	14.2	14.1	-
224	Narrow fabric mills	25.2	25.5	23.9	24.2	-	22.1	22.3	20.9	21.3	-
225	Knitting mills	229.0	230.4	228.7	228.3	-	198.4	199.8	198.5	198.1	-
2251	Women's hosiery, except socks	31.8	32.0	30.4	29.9	-	28.6	28.8	27.4	26.9	-
2252	Hosiery, nec	32.5	33.5	33.0	33.4	-	29.5	30.4	30.1	30.4	-
2253	Knit outerwear mills	74.0	74.1	77.0	77.3	-	63.6	63.4	66.0	66.2	-
2254	Knit underwear mills	31.8	32.1	32.0	32.0	-	27.6	27.9	27.5	27.6	-

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 ¹				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
TEXTILE MILL PRODUCTS—Continued											
2257	Circular knit fabric mills	33.0	32.9	31.5	31.4	-	27.4	27.7	26.8	26.7	-
226	Textile finishing, except wool	77.8	77.5	72.1	72.4	-	65.8	65.4	60.4	60.4	-
2261	Finishing plants, cotton	30.8	30.9	28.4	28.3	-	25.8	25.8	23.7	23.3	-
2262	Finishing plants, synthetics	30.3	30.1	28.9	29.2	-	25.6	25.4	24.3	24.5	-
227	Floor covering mills	59.4	59.1	52.9	52.9	-	48.4	48.2	43.0	42.9	-
228	Yarn and thread mills	133.9	134.9	128.5	130.2	-	121.6	122.3	116.0	117.3	-
2281	Yarn mills, except wool	87.8	88.9	86.2	87.2	-	81.4	82.4	79.3	80.1	-
2282	Throwing and winding mills	26.5	26.1	23.3	24.0	-	23.2	22.8	20.5	21.0	-
229	Miscellaneous textile goods	69.0	68.2	62.7	64.1	-	55.2	54.7	49.2	50.4	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,317.3	1,305.8	1,309.2	1,306.6	1,312.8	1,128.0	1,117.9	1,119.7	1,117.1	1,123.6
231	Men's and boys' suits and coats	77.9	78.5	78.9	79.0	-	67.2	67.8	69.5	69.6	-
232	Men's and boys' furnishings	369.2	369.1	373.0	370.3	-	317.1	317.1	319.1	316.9	-
2321	Men's and boys' shirts and nightwear	105.1	104.3	103.0	102.3	-	91.5	90.8	88.9	88.2	-
2327	Men's and boys' separate trousers	79.0	79.1	79.1	79.5	-	68.8	68.6	69.1	69.5	-
2328	Men's and boys' work clothing	102.5	104.5	107.5	106.3	-	85.6	88.2	89.7	89.3	-
233	Women's and misses' outerwear	438.8	431.6	437.7	434.5	-	379.7	372.7	377.2	373.8	-
2331	Women's and misses' blouses and waists	63.0	62.5	61.4	61.9	-	54.6	53.9	53.3	53.9	-
2335	Women's and misses' dresses	158.2	155.2	154.8	151.1	-	141.0	138.3	137.0	133.4	-
2337	Women's and misses' suits and coats	65.3	60.1	68.1	65.9	-	56.7	51.9	59.4	57.3	-
2339	Women's and misses' outerwear, nec.	152.3	153.8	153.4	155.6	-	127.4	128.6	127.5	129.2	-
234	Women's and children's undergarments	92.9	93.0	89.9	90.1	-	78.6	79.1	76.5	76.6	-
2341	Women's and children's underwear	74.4	74.4	72.9	72.8	-	64.3	64.3	63.3	63.2	-
2342	Brassieres and allied garments	18.5	18.6	17.0	17.3	-	14.3	14.8	13.2	13.4	-
236	Children's outerwear	63.3	64.0	62.5	63.1	-	54.7	55.3	53.2	53.5	-
2361	Children's dresses and blouses	26.4	26.2	24.6	25.0	-	23.9	23.6	22.0	22.2	-
238	Misc. apparel and accessories	59.0	57.3	58.2	58.0	-	50.9	49.2	49.6	49.6	-
239	Misc. fabricated textile products	195.9	192.0	188.3	190.8	-	162.5	159.2	156.8	159.2	-
2391	Curtains and draperies	30.4	30.5	27.9	28.4	-	26.3	26.4	23.3	23.8	-
2392	House furnishings, nec.	55.7	56.4	52.5	53.1	-	46.0	47.0	43.1	43.8	-
2396	Automotive and apparel trimmings	36.8	32.3	38.5	39.4	-	30.8	26.4	33.9	34.6	-
26	PAPER AND ALLIED PRODUCTS	709.3	707.8	688.6	691.2	697.4	539.4	537.2	517.9	519.3	525.7
261, 2, 6	Paper and pulp mills	206.9	207.5	204.0	206.8	-	155.7	156.1	152.1	153.7	-
262	Paper mills, except building paper	177.5	178.0	176.1	178.9	-	132.1	132.3	129.7	131.1	-
263	Paperboard mills	64.8	64.1	63.7	63.5	-	51.2	50.3	50.1	49.8	-
264	Misc. converted paper products	221.3	220.6	214.5	214.4	-	165.0	164.0	158.3	157.9	-
2641	Paper coating and glazing	58.8	58.8	56.7	56.8	-	38.5	38.3	36.3	36.2	-
2642	Envelopes	24.7	25.0	24.9	24.9	-	19.7	19.9	19.4	19.7	-
2643	Bags, except textile bags	50.6	51.2	48.7	49.0	-	39.5	40.2	37.8	38.1	-
265	Paperboard containers and boxes	216.3	215.6	206.4	206.5	-	167.5	166.8	157.4	157.9	-
2651	Folding paperboard boxes	45.7	45.1	44.5	44.6	-	36.3	35.8	35.1	35.2	-
2653	Corrugated and solid fiber boxes	111.1	111.1	105.1	104.9	-	82.6	82.5	76.7	76.7	-
2654	Sanitary food containers	26.5	26.5	26.1	25.9	-	22.1	22.0	21.2	21.1	-
27	PRINTING AND PUBLISHING	1,251.4	1,262.0	1,267.9	1,272.8	1,282.1	709.0	716.2	711.5	712.7	722.1
271	Newspapers	426.9	430.9	429.8	432.7	-	170.0	172.4	167.2	168.4	-
272	Periodicals	81.1	81.9	83.7	83.9	-	13.4	13.6	15.9	15.4	-
273	Books	101.3	103.6	101.8	101.2	-	51.9	54.1	51.8	51.0	-
2731	Book publishing	69.2	70.6	69.8	69.5	-	25.1	26.4	25.4	25.0	-
2732	Book printing	32.1	33.0	32.0	31.7	-	26.8	27.7	26.4	26.0	-
274	Miscellaneous publishing	45.1	46.1	47.0	46.4	-	27.4	28.5	25.2	24.2	-
275	Commercial printing	416.0	418.2	427.1	429.6	-	311.3	312.5	318.3	320.5	-
2751	Commercial printing, letterpress	169.1	169.4	170.8	172.8	-	126.4	126.6	127.1	129.1	-
2752	Commercial printing, lithographic	224.1	225.4	232.8	233.1	-	165.9	166.5	171.8	171.9	-
276	Manifold business forms	47.5	47.9	46.6	46.6	-	33.5	33.8	33.0	33.2	-
278	Blankbooks and bookbinding	65.3	65.4	63.3	63.5	-	54.4	54.7	51.8	51.6	-
279	Printing trade services	43.9	44.1	45.1	45.5	-	32.5	32.6	33.4	33.9	-
28	CHEMICALS AND ALLIED PRODUCTS	1,113.7	1,113.9	1,106.3	1,106.0	1,105.4	633.6	633.1	619.3	617.9	617.4
281	Industrial inorganic chemicals	162.9	163.9	164.8	164.6	-	86.8	87.0	88.1	87.4	-
2819	Industrial inorganic chemicals, nec.	106.3	106.8	108.5	108.0	-	56.6	56.6	59.1	58.5	-
282	Plastics materials and synthetics	210.7	210.5	199.2	199.5	-	142.1	141.6	130.1	130.5	-
2821	Plastics materials and resins	85.9	86.1	83.7	83.4	-	51.9	52.0	48.7	48.4	-
2824	Organic fibers, noncellulosic	96.1	95.5	89.6	90.3	-	69.3	68.6	62.8	63.4	-
283	Drugs	194.4	195.3	199.2	199.3	-	96.7	97.5	97.0	96.9	-
2834	Pharmaceutical preparations	154.8	155.8	158.8	158.8	-	74.3	75.2	75.1	75.6	-
284	Soap, cleaners, and toilet goods	141.7	135.3	140.1	139.6	-	85.6	85.2	86.4	85.8	-
2841	Soap and other detergents	41.3	41.0	40.9	40.9	-	26.7	26.7	26.3	26.3	-
2844	Toilet preparations	60.4	59.1	59.7	59.0	-	37.3	37.0	38.8	38.1	-
2842, 3	Polishing, sanitation, and finishing preparations	40.0	35.2	39.5	39.7	-	21.6	21.5	21.3	21.4	-
285	Paints and allied products	69.3	67.9	66.3	66.0	-	35.2	34.4	33.1	32.8	-
286	Industrial organic chemicals	172.2	172.6	171.7	171.4	-	89.8	89.7	87.1	86.4	-

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 ¹				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	37.5	37.4	36.3	36.2	-	23.5	23.3	22.2	22.2	-
2861,9	Gum, wood, and industrial organic chemicals, nec.	134.7	135.2	135.4	135.2	-	66.3	66.4	64.9	64.2	-
287	Agricultural chemicals	69.5	70.1	70.6	70.8	-	44.0	44.5	43.9	44.2	-
289	Miscellaneous chemical products	94.0	94.3	94.4	94.8	-	53.4	53.2	53.6	53.9	-
29	PETROLEUM AND COAL PRODUCTS	213.5	212.6	210.9	210.0	209.4	139.4	138.3	135.8	135.2	134.6
291	Petroleum refining	167.8	166.1	166.6	166.2	-	105.2	105.2	103.8	103.4	-
295	Paving and roofing materials	33.6	32.4	32.1	31.6	-	26.5	25.5	24.4	24.1	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	770.8	765.9	695.8	703.3	709.6	602.5	598.5	535.4	543.2	549.5
301	Tires and inner tubes	116.2	114.4	98.3	99.8	-	82.5	81.8	68.8	70.6	-
302	Rubber and plastics footwear	22.5	22.3	23.4	22.5	-	19.8	19.5	21.0	20.1	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	24.4	24.6	20.6	21.1	-	17.8	17.9	14.2	14.7	-
306	Fabricated rubber products, nec.	116.6	115.2	104.7	105.8	-	91.4	90.0	80.9	82.0	-
307	Miscellaneous plastics products	491.1	489.4	448.8	454.1	-	391.0	389.3	350.5	355.8	-
31	LEATHER AND LEATHER PRODUCTS	247.9	247.6	241.1	241.2	241.1	210.7	209.8	204.8	204.6	204.9
311	Leather tanning and finishing	19.2	19.2	18.6	18.9	-	16.1	16.0	15.5	15.8	-
314	Footwear, except rubber	149.6	150.1	152.3	152.6	-	128.0	127.9	131.2	131.1	-
3143	Men's footwear, except athletic	56.2	56.7	59.0	59.5	-	48.5	48.9	50.9	51.3	-
3144	Women's footwear, except athletic	61.0	61.1	57.9	57.6	-	51.8	51.5	49.9	49.2	-
316	Luggage	17.8	17.4	14.8	14.4	-	13.9	13.6	11.2	10.9	-
317	Handbags and personal leather goods	34.8	34.5	31.1	30.6	-	30.1	29.8	26.5	26.1	-
-	TRANSPORTATION AND PUBLIC UTILITIES	5,233	5,243	5,170	5,173	5,171	4,387	4,393	4,314	4,318	4,319
40	RAILROAD TRANSPORTATION	566.2	562.1	533.1	532.7	-	-	-	-	-	-
4011	Class 1 railroads ²	511.1	507.4	481.3	480.7	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	277.4	278.6	279.7	282.0	-	256.2	257.0	258.6	261.4	-
411	Local and suburban transportation	78.7	79.5	84.9	84.8	-	72.8	73.0	78.2	78.1	-
412	Taxis	60.6	61.3	55.8	55.5	-	-	-	-	-	-
413	Intercity highway transportation	38.3	38.2	43.3	41.6	-	35.3	35.2	39.6	37.9	-
415	School buses	85.1	85.2	81.2	85.2	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,372.0	1,370.1	1,277.7	1,291.4	-	1,213.0	1,209.4	1,119.8	1,132.2	-
421,3	Trucking and trucking terminals	1,275.1	1,269.2	1,188.7	1,198.1	-	1,129.0	1,121.6	1,044.2	1,052.6	-
422	Public warehousing	96.9	100.9	89.0	93.3	-	84.0	87.8	75.6	79.6	-
44	WATER TRANSPORTATION	218.5	219.2	216.1	203.3	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	448.0	450.6	449.0	448.2	-	-	-	-	-	-
451,2	Air transportation	399.7	402.4	400.0	399.1	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	19.4	19.4	20.0	19.8	-	13.8	13.8	14.4	14.2	-
47	TRANSPORTATION SERVICES	195.0	195.0	191.0	192.1	-	-	-	-	-	-
48	COMMUNICATION	1,323.3	1,335.1	1,363.3	1,364.8	-	995.4	1,003.9	1,014.8	1,017.6	-
481	Telephone communication	1,059.1	1,067.4	1,082.1	1,082.9	-	777.4	783.2	784.9	786.9	-
483	Radio and television broadcasting	192.9	195.4	204.4	204.8	-	155.2	157.2	163.4	164.0	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	813.3	813.2	839.8	838.2	-	666.5	666.9	685.2	683.5	-
491	Electric services	377.9	375.1	397.0	397.3	-	304.8	305.9	320.4	321.0	-
492	Gas production and distribution	168.5	167.3	171.7	171.0	-	137.3	136.2	140.2	139.5	-
493	Combination utility services	195.3	195.7	195.9	195.7	-	162.6	163.2	159.4	159.1	-
495	Sanitary services	48.7	48.4	52.2	51.5	-	43.0	42.8	46.3	45.3	-
-	WHOLESALE AND RETAIL TRADE	20,474	20,756	20,692	20,704	20,940	17,994	18,267	18,138	18,155	18,379
50,51	WHOLESALE TRADE	5,266	5,282	5,291	5,310	5,315	4,325	4,335	4,316	4,331	4,333
50	WHOLESALE TRADE - DURABLE GOODS	3,121	3,134	3,115	3,126	-	2,561	2,570	2,538	2,547	-
501	Motor vehicles and automotive equipment	444.4	442.1	422.4	423.2	-	362.2	360.0	340.0	340.6	-
502	Furniture and home furnishing	112.9	115.3	116.4	117.3	-	92.2	94.4	95.0	96.0	-
503	Lumber and construction materials	197.1	197.7	190.2	190.8	-	164.8	164.8	156.7	156.9	-
504	Sporting goods, toys, and hobby goods	71.2	73.0	74.2	74.6	-	58.7	60.3	60.6	60.5	-
505	Metals and minerals, except petroleum	154.7	154.8	150.6	150.7	-	126.2	125.9	120.9	121.0	-
506	Electrical goods	406.4	409.5	407.6	408.5	-	332.0	334.4	330.2	331.0	-
507	Hardware, plumbing, and heating equipment	245.6	247.1	242.2	243.2	-	202.2	203.4	198.3	199.9	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,277.8	1,281.1	1,303.0	1,306.8	-	1,044.0	1,047.1	1,059.6	1,062.0	-
509	Miscellaneous durable goods	210.8	212.9	208.3	210.8	-	178.3	180.1	176.3	178.6	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,145	2,148	2,176	2,184	-	1,764	1,765	1,778	1,784	-
511	Paper and paper products	145.6	146.6	148.8	149.5	-	118.3	118.9	121.1	121.8	-
512	Drugs, proprietaries, and sundries	147.8	149.2	152.6	154.5	-	125.8	127.0	128.5	130.4	-
513	Apparel, piece goods, and notions	175.0	175.1	179.8	181.9	-	139.2	139.2	142.5	144.3	-
514	Groceries and related products	648.7	642.6	675.4	667.7	-	560.1	553.9	584.2	576.4	-
516	Chemicals and allied products	122.5	123.2	127.4	126.1	-	89.6	90.2	91.9	89.8	-
517	Petroleum and petroleum products	226.2	227.9	233.5	234.3	-	164.9	166.3	170.0	170.4	-
518	Beer, wine, and distilled beverages	135.9	137.4	137.4	137.1	-	115.5	117.0	115.2	114.9	-
519	Miscellaneous nondurable goods	387.1	389.0	387.3	390.6	-	320.4	321.5	315.1	318.4	-
52-59	RETAIL TRADE	15,208	15,474	15,401	15,394	15,625	13,669	13,932	13,822	13,824	14,046
52	BUILDING MATERIALS AND GARDEN SUPPLIES	638.3	637.9	619.7	621.5	-	543.6	544.3	523.2	525.7	-
521	Lumber and other building materials	344.9	341.5	330.6	331.8	-	294.4	291.4	279.8	281.4	-
525	Hardware stores	151.8	154.0	153.8	153.8	-	131.6	134.0	131.4	131.6	-
53	GENERAL MERCHANDISE STORES	2,272.3	2,417.1	2,150.1	2,198.1	-	2,117.3	2,260.8	1,994.9	2,042.9	-
531	Department stores	1,853.0	1,979.0	1,741.2	1,787.9	-	1,737.3	1,863.0	1,628.6	1,675.1	-
533	Variety stores	278.2	291.0	269.0	269.6	-	257.8	270.2	247.2	248.1	-
539	Misc. general merchandise stores	141.1	147.1	139.9	140.6	-	122.2	127.6	119.1	119.7	-
54	FOOD STORES	2,326.9	2,365.8	2,420.4	2,424.3	-	2,147.6	2,185.4	2,238.1	2,243.5	-
541	Grocery stores	2,034.0	2,060.1	2,128.9	2,131.6	-	1,880.1	1,905.3	1,973.8	1,978.3	-
542	Meat markets and freezer provisioners	51.6	52.7	52.1	52.8	-	-	-	-	-	-
546	Retail bakeries	128.6	130.0	129.2	129.0	-	118.1	119.7	117.8	118.1	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	1,799.9	1,793.0	1,730.4	1,733.8	-	1,532.3	1,523.3	1,466.3	1,468.9	-
551.2	New and used car dealers	871.2	866.3	792.1	795.2	-	722.6	717.2	650.2	652.8	-
553	Auto and home supply stores	271.6	271.3	271.9	272.0	-	236.9	236.7	235.7	235.5	-
554	Gasoline service stations	566.3	566.0	574.4	575.0	-	495.7	494.1	500.3	501.0	-
56	APPAREL AND ACCESSORY STORES	955.9	998.7	955.3	970.7	-	823.9	865.6	816.6	831.7	-
561	Men's and boys' clothing and furnishings	139.5	145.8	135.4	136.3	-	118.1	124.3	113.8	114.6	-
562	Women's ready-to-wear stores	357.9	375.2	355.8	364.7	-	311.9	328.5	307.9	316.1	-
565	Family clothing stores	177.2	188.5	184.4	188.0	-	155.2	166.0	160.0	163.2	-
566	Shoe stores	182.0	185.9	179.4	179.4	-	152.3	156.1	148.7	149.1	-
57	FURNITURE AND HOME FURNISHINGS STORES	615.4	620.0	598.4	600.1	-	508.6	514.0	496.7	497.6	-
571	Furniture and home furnishings	376.6	379.3	369.0	369.6	-	314.7	317.2	307.1	308.1	-
572	Household appliance stores	86.2	86.0	82.8	83.0	-	74.1	73.8	71.1	71.0	-
573	Radio, television, and music stores	152.6	154.7	146.6	147.5	-	119.8	123.0	118.5	118.5	-
58	EATING AND DRINKING PLACES	4,684.5	4,665.7	5,005.7	4,893.1	-	4,311.0	4,293.1	4,607.6	4,502.2	-
59	MISCELLANEOUS RETAIL	1,914.5	1,975.8	1,920.6	1,952.3	-	1,685.0	1,745.1	1,678.6	1,711.8	-
591	Drug stores and proprietary stores	493.0	499.7	508.0	511.1	-	448.8	455.8	460.0	462.4	-
592	Liquor stores	133.5	134.1	131.2	130.0	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	581.9	616.9	599.6	612.8	-	497.4	531.7	509.7	524.9	-
596	Nonstore retailers	295.5	308.5	271.6	281.3	-	278.2	291.8	253.5	263.1	-
598	Fuel and ice dealers	106.1	109.9	103.1	105.7	-	89.3	92.9	86.2	88.8	-
599	Retail stores, nec.	247.7	250.0	248.5	251.8	-	208.5	209.8	207.4	210.4	-
-	FINANCE, INSURANCE, AND REAL ESTATE	5,025	5,039	5,194	5,196	5,204	3,804	3,811	3,930	3,923	3,934
60	BANKING	1,500.9	1,512.3	1,549.4	1,551.5	-	1,159.8	1,169.1	1,192.1	1,191.8	-
602	Commercial and stock savings banks	1,371.3	1,381.7	1,412.5	1,413.8	-	1,054.6	1,062.8	1,079.6	1,079.1	-
61	CREDIT AGENCIES OTHER THAN BANKS	561.4	564.5	560.0	561.9	-	427.7	428.0	422.4	424.1	-
612	Savings and loan associations	238.7	240.9	244.5	247.6	-	184.8	186.4	185.5	188.2	-
614	Personal credit institutions	212.9	214.0	207.4	206.2	-	161.1	160.3	155.9	154.9	-
62	SECURITY, COMMODITY BROKERS, AND SERVICES	204.7	206.6	216.2	219.1	-	-	-	-	-	-
621	Security brokers and dealers	163.7	164.8	172.1	174.2	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,213.8	1,213.9	1,244.6	1,248.1	-	847.2	847.7	868.2	868.1	-
631	Life insurance	525.0	522.8	542.5	544.2	-	313.9	314.6	332.9	332.5	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	136.9	137.1	141.9	142.0	-	109.3	109.3	113.5	113.3	-
633	Fire, marine, and casualty insurance	476.6	479.0	492.0	492.7	-	363.2	363.5	367.9	367.6	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	435.7	438.4	457.1	459.2	-	-	-	-	-	-
65	REAL ESTATE	969.3	963.6	1,020.7	1,009.5	-	-	-	-	-	-
651	Real estate operators and lessors	447.2	448.5	475.2	471.2	-	-	-	-	-	-
653	Real estate agents and managers	365.4	361.9	384.5	379.8	-	-	-	-	-	-
655	Subdividers and developers	132.9	129.4	139.1	136.5	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	23.3	23.4	23.4	23.3	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES	115.6	116.5	122.6	123.1	-	-	-	-	-	-
-	SERVICES	17,297	17,284	17,915	17,942	17,963	15,360	15,348	15,934	15,960	15,966
70	HOTELS AND OTHER LODGING PLACES	1,044.0	1,010.3	1,128.4	1,068.6	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,006.3	976.1	1,084.4	1,035.1	-	925.0	896.3	997.2	951.5	-
72	PERSONAL SERVICES	925.1	926.4	913.1	921.7	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	360.1	361.7	352.5	354.3	-	321.5	322.5	315.1	316.6	-
723	Beauty shops	293.7	294.8	295.0	295.1	-	271.2	271.7	274.8	274.2	-
726	Funeral service and crematories	69.1	69.0	70.5	71.1	-	-	-	-	-	-
73	BUSINESS SERVICES	2,981.7	2,975.5	3,056.8	3,070.0	-	2,601.5	2,591.2	2,670.1	2,678.1	-
731	Advertising	147.1	147.7	148.1	149.0	-	109.8	110.6	112.2	112.9	-
732	Credit reporting and collection	76.8	76.2	70.9	71.5	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	117.9	120.3	124.4	126.8	-	-	-	-	-	-
734	Services to buildings	507.6	508.1	503.5	506.2	-	460.0	460.4	456.5	459.0	-
736	Personnel supply services	549.7	529.9	546.4	541.4	-	-	-	-	-	-
737	Computer and data processing services	276.4	281.6	297.4	301.8	-	228.4	232.9	248.9	252.2	-
75	AUTO REPAIR, SERVICES, AND GARAGES	581.4	581.1	581.1	579.8	-	497.4	497.2	495.1	494.6	-
753	Automotive repair shops	361.3	358.6	357.5	355.4	-	307.3	305.0	304.0	302.9	-
76	MISCELLANEOUS REPAIR SERVICES	293.9	298.5	304.6	311.8	-	252.4	257.2	250.1	257.8	-
78	MOTION PICTURES	225.6	227.6	197.7	193.7	-	201.3	202.7	175.1	170.2	-
781	Motion picture production and services	91.0	96.8	53.9	62.6	-	80.0	84.8	44.3	51.4	-
783	Motion picture theaters	124.2	120.7	133.0	120.8	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	667.3	630.2	792.3	704.6	-	601.2	566.1	717.1	633.8	-
80	HEALTH SERVICES	5,038.4	5,054.9	5,281.2	5,304.5	-	4,484.5	4,500.7	4,717.2	4,740.8	-
801	Offices of physicians	732.1	731.1	764.1	766.6	-	599.5	597.9	626.8	630.1	-
802	Offices of dentists	327.8	328.5	345.3	343.5	-	283.4	284.2	302.1	300.7	-
805	Nursing and personal care facilities	955.8	958.5	1,005.7	1,010.0	-	859.3	862.5	905.5	909.4	-
806	Hospitals	2,628.9	2,639.4	2,749.3	2,763.7	-	2,403.0	2,412.9	2,523.0	2,536.8	-
81	LEGAL SERVICES	462.7	464.1	484.3	490.6	-	396.1	398.1	413.4	419.9	-
82	EDUCATIONAL SERVICES	1,163.1	1,182.2	1,089.0	1,200.2	-	-	-	-	-	-
821	Elementary and secondary schools	261.5	271.0	265.8	275.7	-	-	-	-	-	-
822	Colleges and universities	783.2	790.6	704.3	800.4	-	-	-	-	-	-
83	SOCIAL SERVICES	1,070.4	1,084.8	1,150.8	1,161.1	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,522.7	1,529.2	1,565.0	1,580.1	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	958.7	970.0	1,007.9	1,014.5	-	792.8	807.7	838.1	843.4	-
891	Engineering and architectural services	532.3	540.1	560.9	564.1	-	451.4	458.9	475.5	478.7	-
893	Accounting, auditing, and bookkeeping	297.6	299.6	313.3	315.3	-	235.0	241.0	251.7	252.3	-
-	GOVERNMENT	16,064	16,227	15,764	16,201	16,337	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,756	2,760	2,754	2,756	2,762	-	-	-	-	-
-	Executive, by agency ⁴	2,702.7	2,707.0	2,699.1	2,701.1	-	-	-	-	-	-
-	Department of Defense	887.8	888.0	883.5	891.3	-	-	-	-	-	-
-	Postal Service	653.7	673.0	657.1	651.9	-	-	-	-	-	-
-	Other executive agencies	1,161.2	1,146.0	1,158.5	1,157.9	-	-	-	-	-	-
-	Legislative	39.6	40.0	39.6	39.5	-	-	-	-	-	-
-	Judicial	13.3	13.0	15.0	15.0	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	FEDERAL GOVERNMENT—Continued										
	Federal Government, by industry										
3731	Manufacturing activities	123.3	123.7	117.7	116.5	-	-	-	-	-	
	Shipbuilding and repairing	72.2	72.5	69.2	69.1	-	-	-	-	-	
	Transportation and public utilities, except										
	Postal Service	45.1	45.3	45.9	45.2	-	-	-	-	-	
	Services	350.4	350.5	390.9	389.5	-	-	-	-	-	
806	Federal government hospitals	222.8	223.9	229.9	230.2	-	-	-	-	-	
	STATE AND LOCAL GOVERNMENT	13,309	13,467	13,010	13,445	13,575	-	-	-	-	
	State government	3,630.7	3,670.9	3,508.5	3,623.9	-	-	-	-	-	
806	State government hospitals	536.5	544.1	547.2	548.9	-	-	-	-	-	
82	State education	1,478.8	1,512.6	1,321.2	1,444.6	-	-	-	-	-	
	General administration including executive, legislative, and judicial functions	999.3	998.2	1,016.1	1,010.5	-	-	-	-	-	
	Local government	9,677.3	9,796.3	9,501.5	9,821.2	-	-	-	-	-	
	Transportation and public utilities	599.3	602.7	628.0	628.4	-	-	-	-	-	
806	Local government hospitals	569.6	570.2	593.8	594.9	-	-	-	-	-	
82	Local education	5,208.5	5,323.9	4,845.3	5,231.8	-	-	-	-	-	
	General administration including executive, legislative, and judicial functions	2,920.7	2,921.3	3,027.8	2,977.8	-	-	-	-	-	

¹ 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.

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

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

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

* Not available.
p = preliminary.

NOTE: Data from April 1979 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" in the Explanatory notes of this publication.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	Aug. 1975	Sept. 1979	July 1980	Aug. 1980	Sept. 1980
-	TOTAL	36,692	37,279	37,333	37,488	38,312
-	PRIVATE SECTOR	29,857	30,058	30,309	30,556	30,790
-	MINING	95	93	106	107	107
10	METAL MINING	9.0	8.8	8.4	8.0	8.1
11, 12	COAL MINING	9.7	9.6	11.1	11.5	11.6
13	OIL AND GAS EXTRACTION	67.1	65.3	76.6	77.9	77.7
131, 2	Crude petroleum, natural gas, and natural gas liquids	42.6	41.6	49.7	50.4	49.9
138	Oil and gas field services	24.5	23.7	26.9	27.5	27.8
14	NONMETALLIC MINERALS, EXCEPT FUELS	9.3	9.3	9.4	9.4	9.3
142	Crushed and broken stone	2.8	2.7	2.7	2.7	2.6
144	Sand and gravel	3.1	3.1	3.1	3.1	3.1
-	CONSTRUCTION	371	371	388	393	393
15	GENERAL BUILDING CONTRACTORS	133.6	133.1	133.2	136.2	135.6
152	Residential building construction	75.7	75.4	75.8	78.1	77.5
153	Operative builders	17.9	18.0	15.1	15.1	15.2
154	Nonresidential building construction	40.0	39.7	42.3	43.0	42.9
16	HEAVY CONSTRUCTION CONTRACTORS	59.9	60.3	61.0	61.7	61.2
161	Highway and street construction	19.3	19.5	19.3	19.4	19.0
162	Heavy construction, except highway	40.6	40.8	41.7	42.3	42.2
17	SPECIAL TRADE CONTRACTORS	177.2	177.5	193.4	195.4	196.1
171	Plumbing, heating, air conditioning	49.9	49.9	54.4	55.0	54.4
172	Painting, paper hanging, decorating	12.0	11.8	12.7	12.5	12.4
173	Electrical work	31.1	31.8	36.1	36.3	37.0
174	Masonry, stonework, and plastering	19.9	19.9	22.2	22.4	22.6
175	Carpentering and flooring	13.9	13.8	14.2	14.3	14.8
176	Roofing and sheet metal work	11.9	12.1	13.4	13.5	13.6
-	MANUFACTURING	6,524	6,591	6,136	6,306	6,376
24, 25, 32-39	DURABLE GOODS	3,079	3,138	2,903	2,926	2,977
20-23, 26-31	NONDURABLE GOODS	3,445	3,453	3,233	3,380	3,399
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	116.0	117.9	96.0	100.4	102.5
241	Logging camps and logging contractors	5.3	5.1	5.4	5.5	5.7
242	Sawmills and planing mills	23.6	24.0	19.7	19.8	19.7
2421	Sawmills and planing mills, general	16.6	16.9	14.5	14.4	14.5
243	Millwork, plywood, and structural members	47.1	47.9	36.8	39.7	40.7
244	Wooden containers	7.6	7.6	7.1	7.2	7.4
245	Wood buildings and mobile homes	11.4	11.5	7.7	8.2	8.4
249	Miscellaneous wood products	21.0	21.8	19.3	20.0	20.6
25	FURNITURE AND FIXTURES	146.0	147.6	128.3	133.7	138.4
251	Household furniture	107.0	108.5	90.5	95.4	99.5
2511	Wood household furniture	46.0	46.7	38.8	42.3	44.2
2512	Upholstered household furniture	35.7	36.0	31.1	32.2	33.2
2515	Mattresses and bedsprings	8.7	8.8	7.3	7.5	7.8
252	Office furniture	12.3	12.2	12.0	12.2	12.1
253	Public building and related furniture	5.6	5.6	5.2	5.2	5.2
254	Partitions and fixtures	10.7	10.5	10.2	10.4	10.7
259	Miscellaneous furniture and fixtures	10.4	10.8	10.4	10.5	10.9
32	STONE, CLAY, AND GLASS PRODUCTS	134.3	135.6	122.9	124.4	126.5
322	Glass and glassware, pressed or blown	44.0	44.7	41.6	41.9	42.3
3221	Glass containers	24.9	24.9	23.1	23.9	23.8
3229	Pressed and blown glass, nec	19.1	19.8	18.5	18.0	18.5
323	Products of purchased glass	13.2	13.6	12.9	12.9	13.6
324	Cement, hydraulic	1.8	1.8	1.8	1.8	1.7
325	Structural clay products	7.1	7.1	6.1	6.2	6.2
326	Pottery and related products	16.6	16.9	13.4	14.2	14.9
327	Concrete, gypsum, and plaster products	15.7	15.7	15.1	15.1	15.2
329	Misc. nonmetallic mineral products	33.0	32.9	29.5	29.6	29.9
33	PRIMARY METAL INDUSTRIES	134.6	134.8	115.6	115.7	119.5
331	Blast furnace and basic steel products	46.7	45.2	36.4	36.0	36.5
3312	Blast furnaces and steel mills	36.6	35.1	27.4	26.9	27.0
332	Iron and steel foundries	19.9	20.1	17.4	16.9	18.3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1975	Sept. 1979	July 1980	Aug. 1980	Sept. 1980
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	9.6	9.7	7.6	7.8	8.0
3322	Malleable iron foundries	1.5	1.4	1.0	.9	1.0
3325	Steel foundries, nec	5.1	5.2	5.0	5.0	5.1
333	Primary nonferrous metals	5.0	4.9	4.7	4.6	4.6
3334	Primary aluminum	2.1	2.0	2.3	2.2	2.1
335	Nonferrous rolling and drawing	41.7	42.6	39.0	39.5	40.9
3351	Copper rolling and drawing	4.0	3.8	3.1	3.2	3.1
3353	Aluminum sheet, plate, and foil	4.7	4.7	4.1	4.3	4.3
3357	Nonferrous wire drawing and insulating	23.9	25.1	23.6	23.8	25.3
336	Nonferrous foundries	15.9	16.5	12.6	13.3	13.8
3361	Aluminum foundries	8.2	8.4	6.6	6.8	7.0
34	FABRICATED METAL PRODUCTS	357.6	361.6	316.4	323.8	331.6
341	Metal cans and shipping containers	14.3	14.2	12.9	13.2	13.4
3411	Metal cans	12.4	12.3	11.1	11.4	11.5
342	Cutlery, hand tools, and hardware	60.6	61.4	50.3	51.4	54.9
3423, 5	Hand and edge tools, and hand saws and blades	17.9	17.6	15.0	15.7	15.9
3429	Hardware, nec	35.7	36.8	29.3	29.0	32.3
343	Plumbing and heating, except electric	19.4	19.5	14.5	14.8	15.0
344	Fabricated structural metal products	75.9	76.7	70.8	72.1	72.9
3441	Fabricated structural metal	7.9	8.0	7.5	7.5	7.5
3442	Metal doors, sash, and trim	24.5	24.8	20.1	21.2	22.1
3443	Fabricated plate work (boiler shops)	16.9	17.1	18.0	18.2	18.2
3444	Sheet metal work	16.3	16.6	15.5	15.6	15.5
345	Screw machine products, bolts, etc.	25.4	25.8	23.0	23.0	23.3
3451	Screw machine products	12.8	13.1	11.9	12.0	12.2
3452	Bolts, nuts, rivets, and washers	12.6	12.7	11.1	11.0	11.1
346	Metal forgings and stampings	56.9	57.3	46.8	50.4	51.7
3462	Iron and steel forgings	4.8	4.8	4.7	4.8	4.7
3465	Automotive stampings	14.1	15.0	8.9	10.4	11.5
3469	Metal stampings, nec	35.9	35.4	31.1	33.0	33.3
347	Metal services, nec	25.9	26.6	24.4	25.1	25.7
3471	Plating and polishing	17.9	18.3	16.6	17.2	17.6
3479	Metal coating and allied services	8.0	8.3	7.8	7.9	8.1
348	Ordinance and accessories, nec	18.1	18.0	17.3	17.1	17.0
349	Misc. fabricated metal products	61.1	62.1	56.4	56.7	57.7
3494	Valves and pipe fittings	23.6	23.9	22.3	21.8	21.7
3496	Misc. fabricated wire products	13.9	14.1	12.9	13.4	13.8
35	MACHINERY, EXCEPT ELECTRICAL	475.2	482.9	486.5	482.4	487.6
351	Engines and turbines	26.9	27.3	24.7	24.4	24.5
3511	Turbines and turbine generator sets	5.7	5.7	5.8	5.9	5.9
3519	Internal combustion engines, nec	21.2	21.6	18.9	18.5	18.6
352	Farm and garden machinery	26.4	28.1	25.8	23.6	26.2
3523	Farm machinery and equipment	21.1	21.8	21.4	19.2	21.6
353	Construction and related machinery	44.5	45.5	48.1	48.1	48.9
3531	Construction machinery	14.3	14.9	14.5	14.5	14.5
3533	Oil field machinery	11.8	11.8	14.2	14.2	14.3
354	Metallworking machinery	56.3	56.7	57.5	56.9	56.8
3541	Machine tools, metal cutting types	9.7	9.8	10.5	10.2	10.0
3544	Special dies, tools, jigs, and fixtures	15.4	15.4	15.2	14.9	15.1
3545	Machine tool accessories	13.3	13.3	13.8	13.6	13.5
355	Special industry machinery	29.8	29.9	31.0	30.7	30.7
3551	Food products machinery	6.3	6.4	6.5	6.3	6.2
3552	Textile machinery	5.2	5.3	5.0	5.0	5.0
3555	Printing trades machinery	6.1	6.0	7.0	7.1	7.2
356	General industrial machinery	62.4	62.8	61.5	61.9	62.2
3561	Pumps and pumping equipment	11.5	11.7	11.1	11.1	11.2
3562	Ball and roller bearings	13.5	13.4	13.9	14.3	14.2
357	Office and computing machines	142.5	144.2	156.0	155.9	156.2
3573	Electronic computing equipment	115.6	116.5	127.9	128.5	128.6
358	Refrigeration and service machinery	36.9	38.6	35.5	35.0	35.9
3585	Refrigeration and heating equipment	23.7	25.1	22.5	22.3	23.1
359	Misc. machinery, except electrical	49.5	49.8	46.4	45.9	46.2
3599	Machinery, except electrical, nec	38.6	38.5	37.8	37.0	36.8
36	ELECTRIC AND ELECTRONIC EQUIPMENT	896.6	919.7	869.6	875.2	887.5
361	Electric distributing equipment	43.4	46.4	40.0	40.8	42.1
3612	Transformers	19.1	20.4	16.7	16.3	17.0
3613	Switchgear and switchboard apparatus	24.3	26.0	23.3	24.5	25.1
362	Electrical industrial apparatus	91.4	94.3	84.9	84.0	84.7
3621	Motors and generators	48.6	51.8	43.9	43.3	44.5
3622	Industrial controls	28.9	28.5	28.0	27.8	27.5
363	Household appliances	60.9	63.4	53.3	53.9	59.0
3632	Household refrigerators and freezers	9.5	10.6	8.8	6.6	8.4
3633	Household laundry equipment	5.0	5.1	3.9	3.4	4.4
3634	Electric housewares and fans	27.8	28.6	25.6	27.6	29.5
364	Electric lighting and wiring equipment	99.8	104.2	90.8	90.9	93.5
3641	Electric lamps	21.1	24.4	21.6	20.2	21.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1979	Sept. 1979	July 1980	Aug. 1980	Sept. 1980
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	45.5	45.8	42.8	43.3	43.1
365	Radio and TV receiving equipment	60.6	64.5	53.7	55.6	58.0
3651	Radio and TV receiving sets	44.8	45.6	40.3	41.1	42.7
366	Communication equipment	200.6	204.0	209.7	210.7	209.4
3661	Telephone and telegraph apparatus	83.9	84.6	81.9	82.3	81.5
3662	Radio and TV communication equipment	116.8	119.4	127.8	128.4	127.9
367	Electronic components and accessories	280.7	282.1	284.2	283.1	283.2
3671-3	Electronic tubes	16.4	16.7	17.3	17.3	17.2
3674	Semiconductors and related devices	97.0	97.5	106.7	105.8	105.0
3679	Electronic components, nec.	114.2	114.6	112.0	111.6	112.8
369	Misc. electrical equipment and supplies	59.2	60.8	53.0	56.2	57.6
3694	Engine electrical equipment	28.9	29.3	22.9	25.0	26.1
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	308.4	323.6	285.5	280.4	289.9
371	Motor vehicles and equipment	125.6	136.4	96.3	94.8	101.6
3711	Motor vehicles and car bodies	46.7	55.7	41.1	36.9	39.5
3713	Truck and bus bodies	4.5	5.4	4.0	3.9	3.9
3714	Motor vehicle parts and accessories	71.5	72.6	48.4	51.1	55.3
372	Aircraft and parts	113.5	116.1	121.4	117.7	120.0
3721	Aircraft	65.7	65.5	65.8	63.5	63.7
3724	Aircraft engines and engine parts	23.8	26.3	28.5	27.1	29.2
3728	Aircraft equipment, nec.	24.0	24.3	27.1	27.1	27.1
373	Ship and boat building and repairing	23.5	25.0	20.2	20.0	20.2
3731	Ship building and repairing	16.0	17.2	15.4	14.8	14.6
374	Railroad equipment	6.7	6.7	6.5	6.4	6.4
376	Guided missiles, space vehicles, parts	21.9	21.8	24.9	25.2	25.2
3761	Guided missiles and space vehicles	18.2	18.1	20.7	20.9	20.9
379	Miscellaneous transportation equipment	9.8	10.0	9.2	9.8	10.2
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	22.7	22.9	24.4	24.4	24.5
381	Engineering and scientific instruments	22.7	22.9	24.4	24.4	24.5
382	Measuring and controlling devices	103.3	103.6	101.0	100.8	101.3
3822	Environmental controls	25.1	25.1	20.8	21.9	22.5
3823	Process control instruments	16.4	16.2	18.4	17.5	17.4
3825	Instruments to measure electricity	45.1	45.0	45.4	45.3	45.3
383	Optical instruments and lenses	11.6	11.9	12.2	11.9	11.8
384	Medical instruments and supplies	74.2	73.9	78.7	78.3	78.4
3841	Surgical and medical instruments	33.8	33.9	36.7	36.5	36.8
3842	Surgical appliances and supplies	32.6	32.5	34.2	33.9	33.8
385	Ophthalmic goods	26.5	26.7	26.2	26.8	26.7
386	Photographic equipment and supplies	38.5	37.0	39.1	39.0	38.3
387	Watches, clocks, and watchcases	18.2	18.4	13.1	13.0	13.2
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Jewelry, silverware, and plated ware	215.5	219.6	187.3	195.5	199.5
391	Jewelry, silverware, and plated ware	27.7	28.5	23.5	25.6	26.7
393	Musical instruments	10.5	10.4	8.5	8.8	9.0
394	Toys and sporting goods	69.0	71.5	59.6	61.6	62.9
3942, 4	Dolls, games, toys, and children's vehicles	38.2	40.2	32.2	34.1	34.6
3949	Sporting and athletic goods, nec.	30.8	31.3	27.4	27.5	28.3
395	Pens, pencils, office and art supplies	21.4	21.8	21.2	21.1	21.1
396	Costume jewelry and notions	33.7	34.0	27.0	29.5	30.3
399	Miscellaneous manufactures	53.2	53.4	47.5	48.9	49.5
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS						
20	Meat products	561.9	568.1	501.3	553.1	554.9
201	Meat products	118.0	118.2	119.4	118.9	119.0
2011	Meat packing plants	28.3	28.2	29.5	29.4	29.2
2013	Sausages and other prepared meats	21.1	20.9	20.5	20.8	20.8
2016	Poultry dressing plants	60.8	61.1	62.4	61.7	61.8
202	Dairy products	39.1	38.0	38.8	38.6	38.2
2026	Fluid milk	18.4	18.2	18.7	18.6	18.3
203	Preserved fruits and vegetables	153.1	159.2	100.0	142.7	145.1
2032	Canned specialties	8.7	9.3	8.0	8.7	9.4
2033	Canned fruits and vegetables	81.6	85.7	43.1	80.5	82.6
2037	Frozen fruits and vegetables	25.1	26.3	16.5	19.4	18.8
204	Grain mill products	28.5	28.2	28.8	29.4	29.6
205	Baker products	61.8	61.9	60.3	60.5	60.4
2051	Bread, cake, and related products	41.3	41.3	40.3	39.9	39.4
2052	Cookies and crackers	20.5	20.6	20.0	20.6	21.0
206	Sugar and confectionery products	43.2	45.2	36.4	41.2	42.9
207	Fats and oils	5.6	5.8	5.9	5.9	5.7
208	Beverages	39.3	40.1	40.5	41.3	40.4
2082	Malt beverages	6.8	6.9	7.9	8.0	7.9
2086	Bottled and canned soft drinks	18.2	18.1	19.3	19.3	19.2
209	Misc. foods and kindred products	73.3	71.5	71.2	74.6	73.6
TOBACCO MANUFACTURES						
21	Cigarettes	27.3	29.5	21.6	25.6	28.2
211	Cigarettes	14.0	14.1	13.7	13.4	13.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1979	Sept. 1979	July 1980	Aug. 1980	Sept. 1980
22	TEXTILE MILL PRODUCTS	421.4	421.8	390.6	406.7	406.8
221	Weaving mills, cotton	65.6	65.7	64.2	65.3	65.3
222	Weaving mills, synthetics	50.4	50.2	46.0	47.9	48.5
223	Weaving and finishing mills, wool	7.8	7.8	6.4	6.9	6.8
224	Narrow fabric mills	14.9	15.1	12.5	14.1	14.2
225	Knitting mills	148.8	147.9	143.3	147.9	146.9
2251	Women's hosiery, except socks	24.5	24.6	23.7	23.9	23.8
2252	Hosiery, nec	24.2	23.2	22.7	24.0	23.8
2253	Knit outerwear mills	52.7	52.5	51.5	54.0	53.2
2254	Knit underwear mills	24.3	24.4	24.0	24.0	24.2
2257	Circular knit fabric mills	13.0	13.0	11.7	12.2	12.1
226	Textile finishing, except wool	23.0	23.3	20.8	21.6	21.5
2261	Finishing plants, cotton	9.6	9.5	9.0	9.2	9.1
2262	Finishing plants, synthetic	6.6	6.8	5.8	6.3	6.2
227	Floor covering mills	24.4	24.6	20.7	21.8	22.0
228	Yarn and thread mills	66.0	66.4	59.1	63.0	62.9
2281	Yarn mills, except wool	40.9	41.0	37.4	39.7	39.4
2282	Throwing and winding mills	14.8	15.0	12.9	13.5	13.6
229	Miscellaneous textile goods	20.5	20.8	17.6	18.2	18.7
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,059.2	1,060.2	998.9	1,048.0	1,054.3
231	Men's and boys' suits and coats	62.1	60.5	59.9	61.7	61.3
232	Men's and boys' furnishings	311.5	310.0	300.9	318.4	313.8
2321	Men's and boys' shirts and nightwear	92.3	92.4	86.0	91.0	89.9
2327	Men's and boys' separate trousers	65.3	64.9	62.6	66.1	65.9
2328	Men's and boys' work clothing	86.3	84.6	85.3	90.8	89.3
233	Women's and misses' outerwear	369.5	370.4	352.8	366.8	371.4
2331	Women's and misses' blouses and waists	55.3	54.6	52.2	53.5	54.4
2335	Women's and misses' dresses	138.5	138.4	127.1	134.9	135.3
2337	Women's and misses' suits and coats	54.6	53.5	52.1	55.1	55.1
2339	Women's and misses' outerwear, nec	121.1	123.9	121.4	123.3	126.6
234	Women's and children's undergarments	81.1	80.9	74.3	76.5	77.7
2341	Women's and children's underwear	65.5	65.5	60.5	62.9	63.8
2342	Brassieres and allied garments	15.6	15.4	13.8	13.6	13.9
236	Children's outerwear	55.9	55.3	51.9	51.7	53.5
2361	Children's dresses and blouses	22.8	23.1	21.1	20.7	21.7
238	Misc. apparel and accessories	45.8	46.5	41.3	44.3	44.9
239	Misc. fabricated textile products	119.4	122.5	103.9	114.4	117.5
2391	Curtains and draperies	23.6	23.9	20.3	21.8	21.8
2392	House furnishings, nec	33.7	34.3	30.8	32.3	33.0
2396	Automotive and apparel trimmings	15.5	18.1	11.3	17.2	18.8
26	PAPER AND ALLIED PRODUCTS	164.0	162.8	155.4	157.5	157.2
261, 2,6	Paper and pulp mills	28.4	27.5	28.5	28.6	27.7
262	Paper mills, except building paper	25.5	24.6	25.6	25.6	24.8
263	Paperboard mills	6.0	5.8	6.0	5.9	5.9
264	Misc. converted paper products	78.5	78.0	73.5	74.1	74.1
265	Paperboard containers and boxes	51.1	51.5	47.4	48.9	49.5
27	PRINTING AND PUBLISHING	483.2	486.2	499.4	499.1	500.9
271	Newspapers	153.8	154.5	163.1	162.4	162.2
272	Periodicals	50.0	49.4	50.2	50.5	50.1
273	Books	53.6	53.4	55.1	54.6	53.8
274	Miscellaneous publishing	24.8	24.2	25.3	25.8	25.5
275	Commercial printing	126.3	130.5	131.2	131.1	134.7
2751	Commercial printing, letterpress	54.4	56.8	56.0	55.7	57.1
2752	Commercial printing, lithographic	66.2	68.1	69.4	69.6	71.6
276	Manifold business forms	15.2	15.3	14.8	14.9	14.9
278	Blankbooks and bookbinding	34.6	34.3	33.6	34.0	34.0
279	Printing trade services	9.9	9.9	11.1	11.0	11.0
28	CHEMICALS AND ALLIED PRODUCTS	275.4	274.2	279.2	279.9	279.8
281	Industrial inorganic chemicals	24.2	24.0	25.0	25.2	24.8
2819	Industrial inorganic chemicals, nec	16.1	16.0	16.5	16.8	16.6
282	Plastics materials and synthetics	45.0	44.5	41.9	41.7	41.8
2821	Plastics materials and resins	11.6	11.3	11.8	11.7	11.8
2824	Organic fibers, noncellulosic	26.7	26.6	23.6	23.6	23.7
283	Drugs	80.3	79.8	84.5	84.3	84.1
2834	Pharmaceutical preparations	68.0	67.9	71.4	71.3	71.2
284	Soap, cleaners, and toilet goods	56.7	57.4	56.5	57.5	58.8
2841	Soap and other detergents	9.2	9.3	9.2	9.3	9.5
2844	Toilet preparations	34.5	35.2	34.0	34.8	36.2
285	Paints and allied products	13.2	13.0	12.8	12.8	12.8
286	Industrial organic chemicals	25.6	25.4	26.9	26.7	26.1
2861,9	Gum, wood, and industrial organic chemicals, nec	20.7	20.4	22.1	22.0	21.5
287	Agricultural chemicals	10.2	10.2	10.8	10.7	10.6
289	Miscellaneous chemical products	20.2	19.9	20.8	21.0	20.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1979	Sept. 1979	July 1980	Aug. 1980	Sept. 1980
29	PETROLEUM AND COAL PRODUCTS	27.3	27.0	28.8	28.6	28.4
291	Petroleum refining	21.9	21.8	23.5	23.4	23.2
30	RUBBER AND MISC. PLASTICS PRODUCTS	273.0	272.4	225.9	235.2	243.3
301	Tires and inner tubes	11.7	11.5	9.4	9.1	9.2
302	Rubber and plastics footwear	13.0	13.1	12.5	13.8	14.5
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.5	6.5	4.4	4.8	5.0
306	Fabricated rubber products, nec	42.0	41.0	32.5	34.0	35.6
307	Miscellaneous plastics products	199.8	200.3	167.1	173.5	179.0
31	LEATHER AND LEATHER PRODUCTS	151.8	151.1	131.4	146.5	145.6
311	Leather tanning and finishing	2.9	2.7	2.4	2.7	2.6
314	Footwear, except rubber	99.9	99.0	89.8	101.2	99.8
3143	Men's footwear, except athletic	35.5	35.2	31.0	36.6	36.7
3144	Women's footwear, except athletic	43.1	42.2	37.6	40.4	39.1
316	Luggage	9.7	9.7	7.7	7.6	7.9
317	Handbags and personal leather goods	24.8	24.9	20.3	21.7	21.9
--	TRANSPORTATION AND PUBLIC UTILITIES	1,238	1,263	1,277	1,279	1,299
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	36.2	67.3	42.4	40.8	69.5
411	Local and suburban transportation	11.5	12.1	13.2	13.4	15.2
412	Taxicabs	6.4	7.2	7.2	7.0	7.3
413	Intercity highway transportation	5.3	5.2	5.9	5.7	5.8
415	School buses	11.1	40.2	13.9	12.5	38.6
42	TRUCKING AND WAREHOUSING	154.8	154.5	150.6	151.9	150.6
421,3	Trucking and trucking terminals	137.9	137.2	135.3	136.0	133.9
422	Public warehousing	16.9	17.3	15.3	15.9	16.7
44	WATER TRANSPORTATION	20.7	20.7	20.9	21.0	20.5
45	TRANSPORTATION BY AIR	142.8	141.3	149.4	149.7	147.7
451,2	Air transportation	135.1	133.5	140.9	141.2	139.3
46	PIPE LINES, EXCEPT NATURAL GAS	2.2	2.3	2.7	2.6	2.6
47	TRANSPORTATION SERVICES	88.9	89.2	91.1	90.8	90.2
48	COMMUNICATION	623.7	620.6	639.1	640.8	638.4
481	Telephone communication	546.4	543.3	554.9	556.6	553.7
483	Radio and television broadcasting	59.8	59.9	65.0	64.9	65.5
49	ELECTRIC, GAS, AND SANITARY SERVICES	145.1	143.6	157.4	157.6	156.2
491	Electric services	65.3	65.1	72.7	72.9	73.0
492	Gas production and distribution	36.5	35.6	38.0	37.9	37.2
493	Combination utility services	33.6	33.2	35.7	35.8	35.2
495	Sanitary services	4.9	5.0	6.1	6.0	6.1
--	WHOLESALE AND RETAIL TRADE	8,725	8,832	8,903	8,953	9,061
50,51	WHOLESALE TRADE	1,325	1,333	1,362	1,362	1,375
50	WHOLESALE TRADE-DURABLE GOODS	738	739	752	751	754
501	Motor vehicles and automotive equipment	96.0	96.2	91.5	91.0	90.5
502	Furniture and home furnishings	40.2	41.0	43.8	44.2	44.3
503	Lumber and construction materials	33.8	33.8	34.5	34.6	34.7
504	Sporting goods, toys, and hobby goods	23.9	24.0	24.0	24.1	24.4
506	Metals and minerals, except petroleum	28.1	28.0	29.5	28.9	28.7
506	Electrical goods	112.9	113.5	116.4	117.1	117.2
507	Hardware, plumbing, and heating equipment	68.8	68.6	66.0	65.7	65.6
508	Machinery, equipment, and supplies	285.7	284.4	298.3	297.8	299.7
509	Miscellaneous durable goods	48.7	49.3	47.5	48.0	48.6
51	WHOLESALE TRADE-NONDURABLE GOODS	587	594	610	611	621
511	Paper and paper products	43.0	42.3	45.3	45.4	45.6
512	Drugs, proprietaries, and sundries	65.3	65.3	65.8	66.3	66.6
513	Apparel, piece goods, and notions	82.8	83.7	86.3	86.8	87.1
514	Groceries and related products	146.0	149.7	158.1	159.0	162.4
516	Chemicals and allied products	31.9	31.6	33.2	33.6	33.7
517	Petroleum and petroleum products	50.5	49.8	56.3	56.1	55.0
518	Beer, wine, and distilled beverages	20.5	20.5	20.9	20.7	20.9
519	Miscellaneous nondurable goods	113.3	114.6	113.8	114.0	116.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1979	Sept. 1979	July 1980	Aug. 1980	Sept. 1980
52-59	RETAIL TRADE	7,400	7,499	7,541	7,591	7,686
52	BUILDING MATERIALS AND GARDEN SUPPLIES	154.1	156.5	159.4	158.8	160.5
521	Lumber and other building materials	63.9	64.0	65.0	65.3	65.7
525	Hardware stores	53.8	54.2	56.5	56.6	56.7
53	GENERAL MERCHANDISE STORES	1,467.7	1,503.5	1,443.8	1,442.0	1,456.8
531	Department stores	1,160.6	1,193.0	1,147.9	1,143.7	1,158.4
533	Variety stores	213.9	215.2	203.0	204.4	205.5
539	Misc. general merchandise stores	93.2	95.3	92.9	93.9	92.9
54	FOOD STORES	953.2	963.7	1,015.3	1,020.7	1,032.4
541	Grocery stores	797.0	805.8	852.7	858.5	868.6
542	Meat markets and freezer provisioners	17.1	17.3	16.9	16.3	16.5
546	Retail bakeries	73.8	75.9	77.9	78.7	80.3
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	318.4	317.4	318.6	324.3	322.5
551.2	New and used car dealers	124.4	123.7	114.3	114.5	114.8
553	Auto and home supply stores	50.1	49.9	47.4	51.3	50.5
554	Gasoline service stations	125.3	126.4	138.0	139.9	139.3
56	APPAREL AND ACCESSORY STORES	643.4	651.1	651.2	658.4	669.1
561	Men's and boys' clothing and furnishings	59.8	60.7	58.5	59.2	60.0
562	Women's ready-to-wear stores	303.8	310.0	306.4	308.5	315.5
565	Family clothing stores	129.9	130.7	136.5	139.3	138.7
566	Shoe stores	76.9	75.5	75.0	76.0	77.7
57	FURNITURE AND HOME FURNISHING STORES	197.2	201.2	194.9	195.1	201.3
571	Furniture and home furnishings	131.0	132.5	132.1	131.4	133.7
572	Household appliance stores	23.1	23.2	22.1	22.1	22.6
573	Radio, television, and music stores	43.1	45.5	40.7	41.6	45.0
58	EATING AND DRINKING PLACES	2,692.7	2,709.8	2,776.0	2,794.6	2,819.1
59	MISCELLANEOUS RETAIL	973.3	995.5	981.8	997.2	1,024.0
591	Drug stores and proprietary stores	303.4	304.5	307.7	310.8	315.5
592	Liquor stores	32.4	33.3	31.2	32.0	31.7
594	Miscellaneous shopping goods stores	331.0	342.6	342.8	348.7	359.4
596	Nonstore retailers	152.3	158.9	144.1	148.0	158.1
598	Fuel and ice dealers	22.5	22.8	22.8	22.9	23.1
599	Retail stores, nec	110.9	112.4	112.8	114.5	115.7
	FINANCE, INSURANCE, AND REAL ESTATE	2,928	2,908	3,056	3,062	3,045
60	BANKING	1,062.0	1,055.3	1,104.6	1,105.0	1,096.8
602	Commercial and stock savings banks	978.3	972.2	1,016.7	1,017.0	1,009.4
61	CREDIT AGENCIES OTHER THAN BANKS	365.3	361.6	367.7	370.7	370.3
612	Savings and loan associations	173.4	173.4	177.1	178.7	179.3
614	Personal credit institutions	122.2	119.2	123.1	123.8	123.3
62	SECURITY, COMMODITY BROKERS, AND SERVICES	78.6	79.2	88.0	89.4	89.2
621	Security brokers and dealers	61.8	62.4	68.9	70.3	70.4
63	INSURANCE CARRIERS	722.4	721.7	759.1	759.0	756.7
631	Life insurance	271.2	270.6	299.9	300.3	299.1
632	Medical service and health insurance	98.3	98.4	102.8	103.1	103.2
633	Fire, marine, and casualty insurance	301.1	301.3	311.6	310.2	308.4
64	INSURANCE AGENTS, BROKERS, AND SERVICE	267.5	264.4	284.4	284.7	284.5
65	REAL ESTATE	358.6	353.0	373.1	374.0	368.4
651	Real estate operators and lessors	137.7	135.5	144.9	146.1	143.7
653	Real estate agents and managers	172.6	169.3	178.3	176.9	174.0
655	Subdividers and developers	31.5	31.7	35.4	36.3	35.8
66	COMBINED REAL ESTATE, INSURANCE, ETC.	14.8	14.5	14.9	14.9	14.9
67	HOLDING AND OTHER INVESTMENT OFFICES	59.0	58.7	64.1	64.5	64.2
-	SERVICES	9,976	10,000	10,443	10,456	10,509
70	HOTELS AND OTHER LODGING PLACES	636.0	598.8	659.1	666.5	622.0
701	Hotels, motels, and tourist courts	593.3	576.2	616.8	621.4	597.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Aug. 1975	Sept. 1979	July 1980	Aug. 1980	Sept. 1980
72	PERSONAL SERVICES	612.4	620.3	627.7	624.0	627.5
721	Laundry, cleaning, and garment services	221.8	223.8	222.1	221.8	222.3
723	Beauty shops	262.9	264.6	263.7	260.9	262.4
726	Funeral service and crematories	18.6	18.7	19.4	19.5	19.1
73	BUSINESS SERVICES	1,250.2	1,269.0	1,262.6	1,280.8	1,307.4
731	Advertising	67.5	68.1	69.3	69.1	69.4
732	Credit reporting and collection	57.5	56.4	51.1	50.9	50.8
733	Mailing, reproduction, stenographic	53.9	55.8	58.7	60.5	62.3
734	Services to buildings	184.7	189.2	188.0	188.2	189.4
736	Personnel supply services	305.1	311.9	293.5	311.6	325.0
737	Computer and data processing services	126.2	127.9	134.8	134.2	135.4
75	AUTO REPAIR, SERVICES, AND GARAGES	95.3	95.8	97.1	97.2	97.5
753	Automotive repair shops	42.6	42.3	42.4	42.7	42.3
76	MISCELLANEOUS REPAIR SERVICES	58.6	59.6	61.8	61.8	61.9
78	MOTION PICTURES	89.6	86.6	90.3	82.5	78.4
781	Motion picture production and services	25.2	26.2	25.0	18.4	18.1
783	Motion picture theaters	58.8	54.7	59.5	58.4	54.6
79	AMUSEMENT AND RECREATION SERVICES	312.1	287.8	336.5	334.6	311.8
80	HEALTH SERVICES	4,084.2	4,085.0	4,283.2	4,299.4	4,300.4
801	Offices of physicians	569.5	567.2	592.6	595.9	596.4
802	Offices of dentists	277.4	278.2	291.1	292.4	295.9
805	Nursing and personal care facilities	858.9	855.9	893.9	899.8	896.5
806	Hospitals	2,111.5	2,114.4	2,217.2	2,221.7	2,222.3
81	LEGAL SERVICES	325.7	324.5	347.8	344.1	340.9
82	EDUCATIONAL SERVICES	457.1	532.9	487.8	490.3	573.4
821	Elementary and secondary schools	134.6	157.4	139.6	144.3	174.7
822	Colleges and universities	259.9	311.2	280.8	279.0	331.0
83	SOCIAL SERVICES	814.6	798.4	870.3	860.3	866.4
89	MISCELLANEOUS SERVICES	290.4	290.2	325.2	325.5	321.1
891	Engineering and architectural services	106.7	106.0	118.5	118.7	118.1
893	Accounting, auditing, and bookkeeping	128.6	129.5	144.0	144.8	143.5
-	GOVERNMENT	6,835	7,221	7,024	6,932	7,522
-	FEDERAL GOVERNMENT	884	651	938	906	867
-	STATE AND LOCAL GOVERNMENT	5,951	6,370	6,086	6,026	6,655
-	State government	1,459.2	1,554.7	1,507.3	1,509.9	1,587.8
-	Hospitals	316.8	325.0	348.0	347.2	343.9
-	State education	508.7	603.0	533.2	537.2	623.8
-	General administration including executive, legislative, and judicial functions	423.9	422.9	416.2	415.7	413.6
-	Local government	4,491.5	4,815.4	4,578.5	4,516.3	5,067.5
-	Transportation and public utilities	89.4	90.8	100.6	99.7	98.4
-	Hospitals	451.7	452.8	479.6	481.4	481.4
-	Local education	2,651.9	3,056.0	2,604.0	2,559.3	3,203.2
-	General administration including executive, legislative, and judicial functions	1,065.0	990.9	1,132.4	1,119.7	1,041.4

**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	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. P	Nov. P
TOTAL	90,552	90,678	91,031	91,186	91,144	90,951	90,468	90,047	89,867	90,142	90,384	90,612	90,880
GOODS-PRODUCING	26,504	26,590	26,715	26,623	26,476	26,121	25,745	25,422	25,163	25,312	25,476	25,613	25,766
MINING	985	992	999	1,007	1,009	1,012	1,023	1,029	1,013	1,013	1,028	1,038	1,051
CONSTRUCTION	4,553	4,615	4,745	4,659	4,529	4,467	4,436	4,379	4,322	4,359	4,404	4,437	4,472
MANUFACTURING	20,966	20,983	20,971	20,957	20,938	20,642	20,286	20,014	19,828	19,940	20,044	20,138	20,243
DURABLE GOODS	12,693	12,706	12,681	12,715	12,707	12,442	12,140	11,947	11,819	11,860	11,955	12,031	12,100
Lumber and wood products	757	746	743	745	737	689	654	648	650	662	674	678	684
Furniture and fixtures	498	497	497	495	494	491	472	461	449	456	464	465	468
Stone, clay, and glass products	704	704	705	705	700	680	663	647	641	648	655	658	661
Primary metal industries	1,230	1,219	1,215	1,214	1,209	1,193	1,144	1,096	1,049	1,059	1,074	1,094	1,111
Fabricated metal products	1,722	1,718	1,707	1,711	1,711	1,678	1,620	1,584	1,551	1,569	1,587	1,595	1,603
Machinery, except electrical	2,460	2,459	2,532	2,529	2,530	2,518	2,517	2,476	2,448	2,437	2,452	2,466	2,467
Electric and electronic equipment	2,150	2,163	2,169	2,168	2,176	2,167	2,127	2,094	2,079	2,083	2,091	2,106	2,119
Transportation equipment	2,033	2,057	1,970	2,006	2,006	1,885	1,819	1,831	1,839	1,840	1,851	1,864	1,875
Instruments and related products	695	69E	699	702	705	703	700	696	698	697	697	697	701
Miscellaneous manufacturing ind.	444	445	444	440	439	438	424	414	415	409	410	408	411
NONDURABLE GOODS	8,273	8,277	8,290	8,242	8,231	8,200	8,146	8,067	8,009	8,080	8,089	8,107	8,143
Food and kindred products	1,725	1,724	1,716	1,713	1,704	1,690	1,691	1,677	1,683	1,690	1,672	1,673	1,675
Tobacco manufactures	64	66	67	68	68	69	70	71	69	67	68	69	71
Textile mill products	887	889	888	888	888	884	869	843	833	851	851	857	857
Apparel and other textile products	1,294	1,296	1,305	1,313	1,316	1,302	1,291	1,287	1,276	1,296	1,299	1,291	1,301
Paper and allied products	708	708	710	709	708	702	692	685	680	682	686	691	697
Printing and publishing	1,259	1,261	1,269	1,273	1,274	1,272	1,268	1,269	1,266	1,266	1,269	1,273	1,280
Chemicals and allied products	1,116	1,11E	1,121	1,121	1,123	1,123	1,120	1,112	1,103	1,100	1,104	1,106	1,108
Petroleum and coal products	212	213	214	161	157	175	203	205	207	208	208	208	208
Rubber and misc. plastic products	762	756	755	751	749	740	703	681	663	680	692	699	706
Leather and leather products	246	24E	245	245	244	243	239	237	229	240	240	240	240
SERVICE-PRODUCING	64,048	64,088	64,316	64,563	64,668	64,830	64,723	64,625	64,704	64,830	64,908	64,999	65,114
TRANSPORTATION AND PUBLIC UTILITIES	5,216	5,212	5,202	5,198	5,202	5,178	5,167	5,134	5,114	5,129	5,124	5,142	5,145
WHOLESALE AND RETAIL TRADE	20,479	20,448	20,529	20,637	20,610	20,531	20,487	20,459	20,506	20,589	20,620	20,637	20,663
WHOLESALE TRADE	5,269	5,251	5,278	5,302	5,301	5,286	5,268	5,245	5,247	5,263	5,280	5,289	5,299
RETAIL TRADE	15,210	15,197	15,251	15,335	15,309	15,245	15,219	15,214	15,259	15,326	15,340	15,348	15,364
FINANCE, INSURANCE, AND REAL ESTATE	5,049	5,064	5,091	5,101	5,115	5,119	5,137	5,150	5,167	5,180	5,194	5,206	5,214
SERVICES	17,308	17,362	17,462	17,540	17,580	17,618	17,659	17,652	17,760	17,788	17,861	17,906	17,981
GOVERNMENT	15,996	16,002	16,032	16,087	16,161	16,384	16,273	16,230	16,157	16,144	16,109	16,108	16,111
FEDERAL	2,773	2,773	2,791	2,826	2,886	3,115	2,960	2,951	2,893	2,828	2,765	2,770	2,776
STATE AND LOCAL	13,223	13,229	13,241	13,261	13,275	13,269	13,313	13,279	13,264	13,316	13,344	13,338	13,335

p=preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL	37,350	37,521	37,693	37,739	37,941	38,139	38,157	38,213	38,059	37,997	38,069	38,235	38,397
GOODS-PRODUCING	6,935	6,965	6,967	6,990	7,010	7,017	7,025	6,965	6,832	6,742	6,699	6,728	6,761
MINING	93	94	95	95	95	97	99	100	102	105	106	107	107
CONSTRUCTION	366	367	371	373	375	377	380	382	382	380	381	384	387
MANUFACTURING	6,476	6,504	6,501	6,522	6,540	6,543	6,546	6,483	6,348	6,257	6,212	6,237	6,267
DURABLE GOODS	3,115	3,119	3,120	3,136	3,140	3,141	3,148	3,103	3,008	2,954	2,930	2,922	2,955
Lumber and wood products	116	116	113	112	111	112	112	104	98	95	95	99	101
Furnitures and fixtures	147	147	147	147	147	146	146	146	140	136	133	135	137
Stone, clay, and glass products	134	134	134	135	135	135	135	132	127	124	122	123	125
Primary metal industries	135	134	134	133	132	132	132	131	123	121	116	116	120
Fabricated metal products	360	361	362	362	362	362	361	352	334	323	320	326	330
Machinery, except electrical ¹	483	483	486	489	500	501	503	500	495	492	487	482	488
Electric and electronic equipment	911	916	918	929	932	933	937	931	906	888	880	876	879
Transportation equipment ¹	324	322	320	320	311	310	311	298	286	286	286	280	290
Instruments and related products	295	296	296	297	298	300	302	301	298	294	296	294	294
Miscellaneous manufacturing ind.	210	210	210	212	212	210	209	208	201	195	195	191	191
NONDURABLE GOODS	3,361	3,385	3,381	3,386	3,400	3,402	3,398	3,380	3,340	3,303	3,282	3,315	3,312
Food and kindred products	499	512	510	511	510	509	503	500	499	491	492	499	488
Tobacco manufactures	26	26	23	23	24	24	24	25	25	25	25	24	25
Textile mill products	419	420	422	424	423	424	424	422	415	401	397	405	404
Apparel and other textile products	1,051	1,055	1,050	1,050	1,059	1,064	1,066	1,056	1,047	1,042	1,039	1,046	1,046
Paper and allied products	161	162	161	161	162	162	162	162	159	156	155	155	156
Printing and publishing	487	490	494	496	500	502	503	502	501	502	500	500	502
Chemicals and allied products	271	274	276	279	278	280	280	280	278	278	277	276	277
Petroleum and coal products	27	27	27	28	28	23	23	24	27	28	29	29	28
Rubber and misc. plastics products	270	269	268	266	267	265	264	261	244	236	231	237	241
Leather and leather products	150	150	150	149	149	149	149	148	145	144	137	144	145
SERVICE-PRODUCING	30,415	30,556	30,726	30,749	30,931	31,122	31,132	31,248	31,227	31,255	31,370	31,507	31,636
TRANSPORTATION AND PUBLIC UTILITIES	1,258	1,262	1,274	1,273	1,273	1,280	1,283	1,286	1,290	1,286	1,286	1,291	1,294
WHOLESALE AND RETAIL TRADE ..	8,804	8,842	8,875	8,846	8,926	8,995	8,973	8,947	8,943	8,981	8,976	9,008	9,034
WHOLESALE TRADE	1,330	1,333	1,341	1,343	1,351	1,361	1,365	1,363	1,365	1,361	1,367	1,363	1,371
RETAIL TRADE	7,474	7,509	7,534	7,503	7,575	7,634	7,608	7,584	7,578	7,620	7,609	7,645	7,663
FINANCE, INSURANCE, AND REAL ESTATE	2,912	2,930	2,941	2,952	2,982	3,001	3,008	3,018	3,023	3,018	3,035	3,038	3,048
SERVICES	9,991	10,031	10,063	10,094	10,150	10,225	10,217	10,261	10,303	10,306	10,412	10,435	10,499
GOVERNMENT	7,450	7,491	7,573	7,584	7,600	7,621	7,651	7,736	7,668	7,664	7,661	7,735	7,761
FEDERAL	863	864	863	869	873	885	912	1,000	941	936	914	895	879
STATE AND LOCAL	6,587	6,627	6,710	6,715	6,727	6,736	6,739	6,736	6,727	6,728	6,747	6,840	6,882

¹ 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 workers¹ on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted

[In thousands]

Industry division and group	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. p	Nov. p
TOTAL PRIVATE	60,857	60,958	61,206	61,308	61,124	60,725	60,325	59,964	59,888	60,136	60,363	60,526	60,778
GOODS-PRODUCING	19,306	19,382	19,471	19,371	19,181	18,814	18,438	18,144	17,901	18,035	18,181	18,294	18,436
MINING	737	740	746	750	750	755	764	770	757	753	766	773	779
CONSTRUCTION	3,621	3,686	3,814	3,750	3,581	3,509	3,488	3,443	3,385	3,410	3,443	3,473	3,501
MANUFACTURING	14,948	14,956	14,911	14,871	14,850	14,550	14,186	13,931	13,759	13,872	13,972	14,048	14,156
DURABLE GOODS	9,001	9,009	8,953	8,967	8,961	8,686	8,386	8,205	8,084	8,123	8,212	8,279	8,346
Lumber and wood products	644	633	629	629	621	577	544	538	542	553	563	568	573
Furniture and fixtures	406	405	404	403	401	398	380	369	359	366	374	374	376
Stone, clay, and glass products	553	552	554	553	549	530	513	498	492	498	505	507	512
Primary metal industries	962	952	948	945	941	924	877	832	793	802	817	837	854
Fabricated metal products	1,298	1,293	1,282	1,286	1,286	1,252	1,195	1,166	1,136	1,152	1,170	1,178	1,186
Machinery, except electrical	1,613	1,606	1,659	1,649	1,649	1,630	1,622	1,586	1,561	1,551	1,568	1,576	1,576
Electric and electronic equipment	1,397	1,409	1,414	1,408	1,413	1,400	1,358	1,320	1,305	1,309	1,315	1,324	1,334
Transportation equipment	1,371	1,397	1,304	1,336	1,339	1,220	1,159	1,172	1,172	1,171	1,181	1,198	1,212
Instruments and related products	419	421	421	423	427	423	419	415	414	415	414	414	416
Miscellaneous manufacturing ind.	338	340	338	335	335	332	319	309	310	306	305	303	307
NONDURABLE GOODS	5,947	5,947	5,958	5,904	5,889	5,864	5,800	5,726	5,675	5,749	5,760	5,769	5,810
Food and kindred products	1,187	1,188	1,182	1,177	1,169	1,157	1,157	1,143	1,149	1,157	1,140	1,141	1,144
Tobacco manufactures	49	52	53	53	53	54	55	55	54	52	54	54	55
Textile mill products	773	776	776	775	775	771	756	731	721	739	740	744	746
Apparel and other textile products	1,108	1,108	1,117	1,123	1,126	1,111	1,100	1,097	1,093	1,107	1,108	1,103	1,114
Paper and allied products	538	537	539	538	537	532	522	515	509	512	515	518	526
Printing and publishing	715	714	718	719	717	715	709	711	708	710	714	713	721
Chemicals and allied products	636	637	639	637	636	637	632	625	616	615	619	619	621
Petroleum and coal products	137	138	139	91	88	109	131	131	132	133	133	133	133
Rubber and misc. plastics products	595	589	588	584	582	573	537	518	502	521	533	540	546
Leather and leather products	209	208	207	207	206	205	201	200	191	203	204	204	204
SERVICE-PRODUCING	41,551	41,576	41,735	41,937	41,943	41,911	41,887	41,820	41,987	42,101	42,192	42,232	42,342
TRANSPORTATION AND PUBLIC UTILITIES	4,370	4,361	4,347	4,346	4,345	4,329	4,314	4,282	4,260	4,272	4,276	4,292	4,298
WHOLESALE AND RETAIL TRADE ..	17,990	17,970	18,028	18,138	18,098	18,029	17,975	17,936	17,984	18,046	18,074	18,097	18,104
WHOLESALE TRADE	4,321	4,318	4,332	4,348	4,347	4,334	4,308	4,284	4,288	4,297	4,307	4,314	4,320
RETAIL TRADE	13,669	13,652	13,696	13,790	13,751	13,695	13,667	13,652	13,696	13,749	13,767	13,783	13,784
FINANCE, INSURANCE, AND REAL ESTATE	3,819	3,822	3,844	3,860	3,869	3,873	3,893	3,898	3,917	3,926	3,930	3,931	3,942
SERVICES	15,372	15,423	15,516	15,593	15,631	15,680	15,705	15,704	15,826	15,857	15,902	15,912	15,998

¹ 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 employment¹ increased

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1977				
January.....	72.4	78.5	86.0	79.1
February.....	66.9	84.3	85.8	80.8
March.....	73.5	83.1	84.9	82.3
April.....	72.4	83.4	80.8	83.4
May.....	71.2	76.2	80.2	85.2
June.....	65.1	71.2	77.9	86.0
July.....	64.0	67.7	74.1	84.9
August.....	60.5	72.1	76.7	82.6
September.....	70.1	72.1	79.1	82.3
October.....	65.1	77.6	81.4	82.6
November.....	71.8	78.5	84.6	80.8
December.....	75.0	78.2	82.0	81.7
1978				
January.....	68.6	80.8	82.3	79.7
February.....	68.6	77.3	82.8	82.3
March.....	71.8	80.2	79.9	81.1
April.....	69.8	74.7	74.7	84.6
May.....	61.9	73.0	75.3	83.7
June.....	64.2	66.6	74.7	82.6
July.....	61.0	68.0	73.3	81.1
August.....	67.7	70.1	77.6	79.9
September.....	67.2	74.1	80.5	79.1
October.....	68.0	78.2	82.0	74.1
November.....	75.3	81.1	79.1	76.7
December.....	74.7	81.7	78.2	74.4
1979				
January.....	66.9	75.9	74.7	73.3
February.....	66.3	70.3	71.8	70.6
March.....	62.2	64.0	64.0	69.2
April.....	49.7	60.2	60.5	67.7
May.....	58.1	54.7	53.8	63.4
June.....	57.8	59.9	51.5	58.4
July.....	57.0	53.8	58.1	59.6
August.....	54.4	52.0	55.5	54.9
September.....	52.9	57.6	55.2	50.6
October.....	65.1	61.9	59.3	46.5r
November.....	55.2	61.9	63.1	39.5r
December.....	53.5	57.3	56.4	37.8r
1980				
January.....	60.2	57.6	45.3r	33.4
February.....	54.9	52.6	36.9r	33.1r
March.....	45.9	39.2r	32.3r	35.2
April.....	34.6r	29.1r	24.7	33.7p
May.....	28.8r	25.0r	26.7r	35.8p
June.....	30.2r	23.8r	25.6	
July.....	36.3r	34.9r	32.8p	
August.....	62.8r	54.4	48.8p	
September.....	62.8	69.8p		
October.....	65.1p	73.5p		
November.....	64.5p			
December.....				

¹ Number of employees, seasonally adjusted, on payrolls of 172 private nonagricultural industries.
p = preliminary.
r = revised.

**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		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
1 ALABAMA	1,378.1	1,334.4	1,342.7	17.0	17.1	17.2	77.6	69.0	66.7	375.7	351.4	354.4
2 Birmingham	361.2	356.9	(*)	10.0	9.9	(*)	22.3	21.9	(*)	69.4	60.9	(*)
3 Huntsville	121.6	120.8	120.8	(1)	(1)	(1)	4.8	4.5	4.4	36.7	35.3	35.5
4 Mobile	150.6	143.1	(*)	(1)	(1)	(*)	11.7	9.7	(*)	29.7	26.3	(*)
5 Montgomery	109.1	105.1	104.7	(1)	(1)	(1)	9.6	6.9	6.7	16.2	15.9	15.9
6 Tuscaloosa	50.8	49.7	50.4	1.4	2.0	2.1	2.8	2.5	2.3	9.5	8.4	8.3
7 ALASKA	172.7	178.1	175.5	5.6	6.6	6.6	12.9	12.6	12.0	12.4	14.9	12.7
8 ARIZONA	992.9	981.9	997.7	22.5	12.8	14.0	83.3	72.5	72.7	148.1	150.7	153.1
9 Phoenix	621.2	624.5	631.7	.2	.4	.4	54.2	48.5	48.8	109.2	111.4	112.1
10 Tucson	179.2	177.8	182.3	7.0	4.7	5.1	15.8	13.6	13.8	18.8	21.1	21.5
11 ARKANSAS	765.8	760.7	760.1	4.9	4.7	4.8	41.8	38.0	36.8	218.9	208.5	209.9
12 Fayetteville—Springdale	66.4	65.9	66.0	(1)	(1)	(1)	3.4	3.2	3.1	20.0	19.2	19.3
13 Fort Smith	68.0	66.2	66.3	.8	.9	.9	3.2	3.0	3.0	23.4	20.8	21.0
14 Little Rock—North Little Rock	183.7	182.2	182.4	(1)	(1)	(1)	9.6	9.2	9.0	32.3	30.1	30.3
15 Pine Bluff	33.4	32.2	32.2	(1)	(1)	(1)	3.2	2.7	2.7	6.1	6.1	6.1
16 CALIFORNIA	9,772.1	9,760.3	9,755.3	39.9	40.3	40.8	485.0	418.1	406.3	2,034.8	2,002.7	1,986.3
17 Anaheim—Santa Ana—Garden Grove	818.8	831.0	840.4	2.3	2.2	2.2	52.1	47.3	47.9	218.8	220.1	219.6
18 Bakersfield	127.6	127.5	128.5	10.7	10.9	10.9	6.9	6.5	6.5	9.6	9.8	9.8
19 Fresno	185.4	190.0	188.1	.9	.9	.9	13.3	13.3	12.1	25.1	26.0	25.3
20 Los Angeles—Long Beach	3,639.0	3,600.2	3,639.6	12.1	12.6	12.7	122.6	112.2	108.9	940.9	911.1	919.0
21 Modesto	89.4	94.7	91.2	.1	.1	.1	7.0	6.0	5.9	20.4	25.5	20.5
22 Oxnard—Simi Valley—Ventura	147.5	149.3	150.4	2.4	2.4	2.4	8.8	8.1	8.2	24.3	24.5	24.5
23 Riverside—San Bernardino—Ontario	436.6	437.9	(*)	2.7	1.7	(*)	30.7	30.5	(*)	68.3	65.8	(*)
24 Sacramento	399.2	409.1	(*)	.4	.4	(*)	25.8	22.4	(*)	27.2	31.7	(*)
25 Salinas—Seaside—Monterey	88.6	87.4	87.2	.6	.7	.7	3.8	3.0	2.9	9.9	9.9	9.2
26 San Diego	644.0	648.4	650.1	.7	.7	.7	41.2	38.0	38.3	103.9	103.8	104.1
27 San Francisco—Oakland	1,527.2	1,526.7	(*)	2.4	2.6	(*)	76.4	72.5	(*)	205.8	202.4	(*)
28 San Jose	653.1	667.1	666.8	.2	.2	.2	27.1	25.5	25.4	233.5	244.1	238.1
29 Santa Barbara—Santa Maria—Lompoc	120.9	120.0	121.8	1.2	1.2	1.2	5.4	5.3	5.2	16.8	15.9	16.5
30 Santa Rosa	91.7	89.8	90.7	.5	.4	.4	6.8	5.9	5.8	15.2	14.6	14.9
31 Stockton	122.0	126.0	122.9	.1	.1	.1	6.6	6.3	6.2	22.8	26.4	22.1
32 Vallejo—Fairfield—Napa	98.5	99.6	99.8	.3	.3	.3	5.3	5.0	5.0	10.9	11.2	10.9
33 COLORADO	1,246.7	1,254.1	1,262.7	31.2	33.7	33.6	89.0	82.2	81.4	185.8	183.8	185.3
34 Denver—Boulder	796.2	802.6	807.3	16.4	17.9	17.9	53.1	47.8	47.3	125.8	126.9	127.2
35 CONNECTICUT	1,414.7	1,403.4	1,405.4	(2)	(2)	(2)	55.5	50.1	50.3	435.2	426.7	425.7
36 Bridgeport	166.1	169.8	170.3	(2)	(2)	(2)	6.3	5.1	5.0	64.9	64.7	64.8
37 Hartford	393.8	399.4	400.7	(2)	(2)	(2)	13.8	12.5	12.4	97.6	98.9	98.9
38 New Britain	62.7	62.1	62.3	(2)	(2)	(2)	2.5	2.4	2.4	29.5	28.2	28.1
39 New Haven—West Haven	189.1	195.4	194.9	(2)	(2)	(2)	7.6	7.2	7.0	45.8	42.3	41.8
40 Stamford	106.5	109.1	109.4	(2)	(2)	(2)	5.1	4.8	4.7	30.8	31.4	31.5
41 Waterbury	89.9	88.9	87.5	(2)	(2)	(2)	3.7	3.2	3.2	34.0	31.0	30.9
42 DELAWARE	259.9	256.7	258.9	(1)	(1)	(1)	16.3	14.3	14.2	71.5	72.0	72.5
43 Wilmington	226.9	218.5	221.7	(1)	(1)	(1)	15.7	13.0	13.0	64.5	64.3	65.2
44 DISTRICT OF COLUMBIA	620.0	617.5	617.3	(1)	(1)	(1)	15.1	14.8	14.7	15.6	15.7	15.8
45 Washington SMSA	(*)	1,574.1	1,573.9	(1)	(1)	(1)	(*)	77.7	77.2	(*)	56.0	56.3
46 FLORIDA	3,409.7	3,503.8	3,543.8	10.0	10.1	10.1	262.3	280.4	277.4	441.0	438.2	441.9
47 Bradenton	41.6	41.1	41.1	-	-	-	3.6	2.8	2.8	6.8	7.1	7.0
48 Daytona Beach	72.9	76.1	75.1	(1)	(1)	(1)	4.9	5.1	5.1	8.0	8.2	8.3
49 Fort Lauderdale—Hollywood	320.3	326.3	328.8	(1)	(1)	(1)	28.0	29.7	30.0	40.3	40.8	40.9
50 Fort Myers—Cape Coral	60.0	60.7	61.3	(1)	(1)	(1)	8.1	8.4	8.3	3.9	3.8	3.8
51 Gainesville	62.1	61.3	64.5	(1)	(1)	(1)	3.9	4.1	4.2	3.7	3.7	3.7
52 Jacksonville	286.9	289.4	289.7	(1)	(1)	(1)	16.0	15.9	15.9	34.6	34.1	34.0
53 Lakeland—Winter Haven	110.0	110.5	111.3	5.7	5.8	5.7	8.7	9.1	9.0	19.4	19.8	20.1
54 Melbourne—Titusville—Cocoa	98.0	101.4	101.8	(1)	(1)	(1)	6.5	6.1	6.3	20.6	22.0	22.1
55 Miami	707.8	715.4	717.6	(1)	(1)	(1)	42.2	42.2	41.7	102.3	100.1	101.2
56 Orlando	274.1	282.1	282.5	(1)	(1)	(1)	20.9	20.1	20.3	35.5	35.3	35.6
57 Panama City	32.4	33.5	32.9	(1)	(1)	(1)	2.1	2.4	2.3	3.1	3.2	3.2
58 Pensacola	95.6	97.2	96.7	(1)	(1)	(1)	6.8	6.5	6.8	12.9	12.7	12.7
59 Sarasota	67.7	68.7	68.9	(1)	(1)	(1)	7.2	6.4	6.5	6.1	5.8	5.9
60 Tallahassee	71.2	72.5	73.7	(1)	(1)	(1)	3.3	3.4	3.4	2.4	2.5	2.5
61 Tampa—St. Petersburg	519.0	522.8	524.2	(1)	(1)	(1)	36.5	35.4	35.3	73.5	71.4	72.2
62 West Palm Beach—Boca Raton	195.1	202.0	205.2	(1)	(1)	(1)	19.1	18.6	18.5	27.2	27.5	27.6

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	
73.9	71.2	71.2	277.7	275.6	276.3	58.0	57.7	57.7	200.8	201.7	202.4	297.4	290.7	296.8	1
28.8	29.3	(*)	86.8	88.1	(*)	22.0	23.0	(*)	64.9	67.9	(*)	56.1	55.9	(*)	2
2.8	2.7	2.7	22.5	22.6	22.6	3.4	3.4	3.4	17.2	17.7	17.5	34.2	34.6	34.7	3
13.5	10.7	(*)	36.9	36.6	(*)	7.0	7.5	(*)	27.2	27.5	(*)	24.6	24.8	(*)	4
4.8	4.5	4.4	23.9	23.6	23.5	6.1	6.0	6.0	19.6	19.6	19.6	28.9	28.6	28.6	5
1.9	1.7	1.7	9.8	9.8	9.8	1.7	1.8	1.8	6.1	6.3	6.3	17.6	17.2	18.1	6
17.1	17.9	17.1	30.2	30.3	30.0	8.6	8.5	8.6	30.1	31.7	31.4	55.8	55.6	57.1	7
47.4	48.7	48.8	239.5	240.1	241.9	55.5	57.1	57.1	152.4	197.7	199.8	204.2	202.3	210.3	8
27.4	29.1	29.3	159.2	160.3	161.0	42.4	44.1	44.2	124.6	127.8	129.3	104.0	102.9	106.6	9
8.8	8.5	8.5	40.4	40.3	40.8	8.2	8.3	8.3	36.4	37.8	38.8	43.8	43.5	45.5	10
46.3	43.5	44.0	164.7	165.8	164.4	31.5	32.5	32.4	112.5	119.1	117.6	145.2	148.6	150.2	11
3.8	4.0	4.0	16.2	16.4	16.5	2.2	2.4	2.3	8.6	8.9	8.9	12.2	11.8	11.9	12
3.8	3.6	3.6	14.6	14.9	14.7	2.5	2.6	2.6	11.2	11.4	11.4	8.5	9.0	9.1	13
14.3	13.8	13.8	42.2	42.2	42.5	12.4	12.5	12.6	34.4	35.7	35.4	38.5	38.7	38.8	14
4.2	3.9	3.9	6.5	6.4	6.4	1.3	1.3	1.3	5.0	4.9	4.9	7.1	6.9	6.9	15
539.6	554.1	548.5	2,240.6	2,281.2	2,270.4	599.8	615.8	615.8	2,099.3	2,132.5	2,133.6	1,733.1	1,715.6	1,753.6	16
26.4	27.8	28.2	197.5	207.4	207.0	53.7	55.9	56.3	164.3	169.8	170.0	103.7	100.5	109.2	17
7.8	7.9	8.0	33.3	33.1	33.1	4.6	4.5	4.5	22.5	22.9	22.8	32.2	31.9	32.9	18
10.8	11.5	11.2	48.4	50.3	49.3	10.8	11.1	11.2	35.8	36.9	37.2	40.3	40.0	40.9	19
202.0	204.9	204.1	824.1	835.4	837.6	225.6	226.8	226.7	818.5	821.0	833.2	493.2	476.2	497.4	20
4.0	4.0	4.0	22.7	23.2	23.8	3.4	3.5	3.5	16.2	16.6	16.7	15.6	15.8	16.7	21
6.1	6.2	6.2	34.5	34.5	34.4	6.9	6.9	6.9	29.3	29.4	29.8	35.5	37.3	38.0	22
23.9	24.6	(*)	104.4	107.9	(*)	18.9	19.3	(*)	88.9	90.8	(*)	98.8	97.3	(*)	23
22.0	22.5	(*)	95.9	98.8	(*)	21.0	21.8	(*)	71.3	76.2	(*)	135.6	135.3	(*)	24
4.8	5.1	5.1	23.3	23.0	22.8	4.4	4.4	4.4	19.4	19.7	19.6	22.4	22.5	22.5	25
27.9	28.1	25.9	146.8	148.7	148.9	37.9	37.8	38.0	145.3	151.5	151.1	140.3	139.8	143.1	26
126.1	127.0	(*)	355.1	356.8	(*)	142.4	142.7	(*)	339.6	341.1	(*)	279.4	281.6	(*)	27
21.5	21.9	21.7	122.5	125.1	126.6	26.3	27.0	27.2	143.8	147.4	149.1	78.2	75.9	78.5	28
4.8	4.7	4.7	30.8	31.1	31.4	5.5	5.4	5.4	32.3	33.1	33.2	24.1	23.3	24.2	29
4.5	4.6	4.6	22.0	22.2	22.3	5.5	5.5	5.5	17.5	17.4	17.3	19.7	19.2	19.9	30
8.9	9.4	9.3	28.3	28.7	29.3	5.0	5.0	5.1	23.5	24.1	24.3	26.8	26.0	26.5	31
4.7	4.8	4.7	20.6	21.2	21.1	3.4	3.5	3.5	18.3	18.5	19.1	35.0	35.1	35.2	32
77.9	77.6	77.2	302.6	307.2	306.1	76.3	77.7	77.9	244.1	254.2	254.3	239.8	237.7	246.9	33
55.6	55.0	54.7	192.6	194.8	194.6	55.2	56.3	56.4	163.1	168.7	169.8	134.5	135.2	139.6	34
63.2	62.0	62.3	302.0	302.3	302.0	100.3	103.4	103.1	278.6	279.3	281.1	179.9	179.6	180.9	35
6.3	6.2	6.3	34.4	36.0	36.3	7.0	7.0	7.0	31.1	34.0	34.1	16.2	16.7	16.8	36
15.7	16.2	16.1	82.1	84.4	84.4	57.4	60.5	61.0	73.2	73.3	74.2	54.1	53.6	53.7	37
1.5	1.5	1.5	10.6	10.9	11.0	1.8	1.9	1.9	9.9	10.4	10.4	6.9	6.8	7.0	38
16.2	16.3	16.4	40.3	42.1	42.3	9.8	10.6	10.6	45.4	50.7	50.1	24.2	26.2	26.7	39
3.8	4.0	3.9	24.3	24.8	24.6	7.4	7.2	7.2	25.8	27.3	27.4	9.3	9.6	10.1	40
3.2	3.3	3.2	15.5	15.8	15.6	3.4	3.6	3.6	18.6	20.6	19.4	11.6	11.4	11.6	41
12.8	12.7	12.8	56.3	56.5	55.9	11.8	11.8	11.8	46.1	46.6	46.5	45.1	42.8	45.2	42
12.2	12.2	12.1	45.8	43.3	43.3	10.8	10.9	10.9	40.7	40.8	40.8	37.1	34.1	36.5	43
26.3	25.3	25.2	65.9	65.4	65.5	34.4	35.2	35.1	177.2	178.5	180.7	285.5	282.6	280.3	44
(*)	67.5	67.8	(*)	303.2	301.7	(*)	91.7	90.5	(*)	426.1	427.0	(*)	551.9	553.4	45
213.1	214.3	216.7	903.7	938.5	952.5	236.1	245.0	245.4	741.9	775.5	780.2	601.6	601.8	619.6	46
1.4	1.4	1.4	12.0	12.3	12.4	2.6	2.8	2.8	8.1	8.4	8.7	7.1	6.3	6.0	47
3.1	3.3	3.3	19.9	20.5	19.9	4.3	4.4	4.4	19.1	20.4	20.0	13.6	14.2	14.1	48
16.2	16.0	16.1	89.1	87.4	88.0	27.1	27.0	27.2	76.3	79.3	80.7	43.3	46.1	45.9	49
3.7	3.9	3.9	16.8	16.4	16.6	5.3	5.7	5.7	11.8	11.8	12.2	10.4	10.7	10.8	50
1.6	1.7	1.8	14.3	13.9	13.9	2.7	2.7	2.7	10.5	10.9	11.0	26.4	24.3	27.2	51
23.8	23.7	23.9	73.3	73.4	73.6	27.6	27.8	27.7	57.8	59.8	59.5	53.8	54.7	55.1	52
4.8	4.8	4.8	26.3	25.7	26.2	5.9	6.2	6.2	22.1	22.3	22.5	17.1	16.8	16.8	53
4.5	4.6	4.6	20.8	22.0	22.1	3.9	4.2	4.2	23.3	23.8	23.8	18.4	18.7	18.7	54
69.9	70.5	70.9	185.6	183.6	183.8	49.9	51.8	52.4	167.3	172.1	173.7	90.6	95.1	93.9	55
13.7	13.6	13.9	72.0	72.3	72.1	17.7	19.6	19.9	70.3	76.3	76.1	44.0	44.9	44.6	56
1.7	1.7	1.7	8.6	8.3	8.2	1.8	2.0	2.0	5.8	6.4	6.1	9.3	9.5	9.4	57
5.5	5.6	4.9	21.8	21.3	21.1	4.4	4.3	4.3	18.9	20.7	20.5	25.3	26.1	26.4	58
2.7	2.9	2.9	19.5	19.5	19.7	5.8	5.8	5.8	16.5	17.8	17.8	9.9	10.5	10.3	59
2.4	2.4	2.4	15.7	14.8	15.0	3.0	3.2	3.1	12.1	12.3	12.3	32.3	33.9	35.0	60
29.1	25.2	29.4	141.7	140.7	139.9	36.5	37.5	37.5	121.3	126.7	127.0	80.4	81.9	82.9	61
8.3	8.5	8.6	49.0	51.2	52.1	15.6	16.4	16.5	46.5	49.2	50.3	29.4	30.6	31.6	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
1 GEORGIA	2,132.5	2,141.0	2,154.3	7.7	7.5	7.5	98.2	99.5	100.3	528.7	514.3	515.7
2 Albany	44.4	46.0	46.4	(1)	(1)	(1)	3.6	3.7	4.0	10.7	10.5	10.6
3 Atlanta	942.9	938.0	945.5	(1)	(1)	(1)	39.9	40.2	39.1	143.5	141.5	142.1
4 Augusta	121.3	120.9	121.3	(1)	(1)	(1)	6.5	6.2	6.1	36.4	35.3	35.5
5 Columbus	83.2	81.9	81.8	(1)	(1)	(1)	3.8	3.9	3.9	21.8	21.6	21.9
6 Macon	95.6	95.4	95.7	(1)	(1)	(1)	4.3	4.2	4.1	16.1	15.6	15.8
7 Savannah	84.3	82.3	84.2	(1)	(1)	(1)	4.4	4.6	5.2	16.5	16.5	16.5
8 HAWAII	399.1	392.1	403.5	(1)	(1)	(1)	23.4	15.6	22.1	21.9	22.7	21.4
9 Honolulu	330.8	323.4	332.7	(1)	(1)	(1)	18.6	12.8	17.6	16.0	16.2	15.1
10 IDAHO	346.0	336.7	336.9	4.7	4.6	4.7	21.5	18.1	18.0	60.7	56.2	57.4
11 Boise City	81.7	80.1	80.4	(1)	(1)	(1)	6.4	5.8	6.0	9.6	8.4	8.3
12 ILLINOIS	4,874.3	4,799.1	4,799.2	31.3	29.4	28.3	194.4	188.7	190.4	1,243.7	1,190.4	1,182.6
13 Bloomington—Normal	51.5	48.7	49.5	(2)	(2)	(2)	1.7	1.5	1.5	8.1	7.0	7.3
14 Champaign—Urbana—Rantoul	74.7	72.0	75.0	(2)	(2)	(2)	2.5	2.2	2.1	7.8	7.4	7.5
15 Chicago—Gary	3,503.3	3,414.9	(*)	5.0	5.0	(*)	140.5	134.0	(*)	952.8	895.6	(*)
16 Chicago SMSA	3,232.9	3,159.3	3,157.8	4.9	4.9	4.9	119.4	116.7	118.1	852.4	814.0	813.1
17 Davenport—Rock Island—Moline	159.5	158.7	159.5	(2)	(2)	(2)	8.0	6.9	7.3	42.9	45.3	45.8
18 Decatur	54.9	54.8	54.6	(2)	(2)	(2)	3.1	2.5	2.5	19.3	19.8	19.5
19 Kankakee	36.3	34.9	34.1	(2)	(2)	(2)	1.4	1.4	1.4	10.4	9.8	9.8
20 Peoria	123.2	152.0	150.5	(2)	(2)	(2)	7.9	7.9	7.9	17.1	48.9	47.6
21 Rockford	124.5	116.3	115.1	(2)	(2)	(2)	3.9	3.9	3.9	57.1	50.4	50.0
22 Springfield	85.2	85.8	86.4	(2)	(2)	(2)	3.0	3.6	3.7	6.6	6.0	6.1
23 INDIANA	2,242.3	2,235.6	2,240.1	10.6	11.1	10.8	113.8	114.7	114.4	719.5	682.1	685.8
24 Anderson	52.6	45.1	46.0	(1)	(1)	(1)	1.5	1.1	1.0	24.3	19.2	19.7
25 Elkhart	77.3	73.0	73.4	-	-	-	2.6	2.4	2.3	41.3	38.2	38.5
26 Evansville	131.8	124.9	125.3	3.0	2.6	2.5	9.2	6.9	6.9	38.1	35.9	35.7
27 Fort Wayne	185.3	177.5	176.1	(1)	(1)	(1)	8.9	8.5	8.5	61.9	55.4	54.6
28 Gary, Hammond—East Chicago	270.4	251.6	253.9	(1)	(1)	(1)	21.1	18.3	18.2	100.4	89.7	91.3
29 Indianapolis	546.1	543.4	544.2	(1)	(1)	(1)	27.7	26.1	26.2	131.4	123.7	124.3
30 Lafayette—West Lafayette	60.8	58.5	59.3	(1)	(1)	(1)	2.7	2.6	2.7	12.5	11.2	11.2
31 Muncie	51.9	48.7	50.3	(1)	(1)	(1)	2.2	2.0	1.9	14.5	13.3	13.0
32 South Bend	117.6	110.7	110.7	(1)	(1)	(1)	5.2	5.1	5.0	34.7	30.8	30.8
33 Terre Haute	69.8	65.4	65.3	1.4	1.4	1.4	4.6	3.8	3.6	17.4	16.1	15.9
34 IOWA	1,131.3	1,107.6	1,104.5	2.6	2.4	2.4	64.4	52.0	51.0	242.1	235.0	231.4
35 Cedar Rapids	88.6	84.2	84.6	(1)	(1)	(1)	5.1	4.0	4.1	29.6	26.4	26.5
36 Des Moines	183.1	177.6	178.2	(1)	(1)	(1)	9.0	7.5	7.3	25.5	24.4	24.6
37 Dubuque	40.7	42.9	39.1	(1)	(1)	(1)	2.0	1.7	1.6	11.9	14.9	11.2
38 Sioux City	50.5	49.2	49.5	(1)	(1)	(1)	2.8	2.4	2.5	9.3	8.7	8.7
39 Waterloo—Cedar Falls	58.8	66.8	67.5	(1)	(1)	(1)	3.5	3.4	3.4	14.0	22.1	22.6
40 KANSAS	959.4	949.6	953.2	14.2	15.1	15.2	55.7	50.5	49.4	197.3	181.5	182.3
41 Lawrence	29.0	29.7	29.7	(2)	(2)	(2)	1.5	1.1	1.1	4.8	4.7	4.8
42 Topeka	86.7	86.4	86.6	.2	.2	.2	4.0	4.2	4.2	10.5	9.2	9.1
43 Wichita	209.3	207.1	207.8	2.6	3.0	3.0	11.6	10.5	10.1	68.1	63.6	64.2
44 KENTUCKY	1,258.5	1,200.8	1,208.9	55.9	52.4	51.7	73.8	62.4	62.9	291.0	265.6	266.9
45 Lexington—Fayette	152.8	149.2	149.3	(1)	(1)	(1)	9.9	10.7	10.2	30.9	28.7	28.7
46 Louisville	404.1	393.3	392.3	(1)	(1)	(1)	18.8	18.4	17.1	108.7	98.3	100.2
47 Owensboro	30.6	30.2	30.1	.8	.8	.8	2.4	2.4	2.2	6.8	6.4	6.4
48 LOUISIANA	1,513.8	1,556.7	1,565.1	75.3	82.1	82.7	128.0	142.7	142.9	214.6	212.5	213.4
49 Alexandria	51.0	51.9	52.2	(1)	(1)	(1)	3.0	3.1	3.1	6.1	6.2	6.3
50 Baton Rouge	190.5	196.6	197.6	.8	.9	.9	22.7	24.2	24.3	26.1	26.2	26.3
51 Lafayette	74.6	81.0	80.8	13.1	14.7	14.7	6.8	7.5	7.5	3.8	4.0	4.0
52 Lake Charles	64.6	64.3	64.2	1.8	1.9	1.9	9.0	8.0	8.1	12.8	13.0	13.0
53 Monroe	50.2	48.8	48.5	.6	.5	.4	4.3	3.5	3.5	8.4	7.6	7.4
54 New Orleans	493.0	493.7	496.5	16.2	17.1	17.1	30.4	30.9	31.0	53.7	53.7	54.3
55 Shreveport	147.6	147.4	148.3	4.7	5.9	6.2	11.7	8.1	8.3	28.4	26.9	27.4
56 MAINE	423.0	422.4	421.3	(1)	(1)	(1)	21.2	21.5	21.0	114.4	114.4	114.5
57 Lewiston—Auburn	36.2	35.8	35.8	(1)	(1)	(1)	1.8	1.5	1.4	12.1	12.1	12.2
58 Portland	91.2	91.9	92.5	(1)	(1)	(1)	4.1	4.0	4.0	17.7	18.0	17.7
59 MARYLAND	1,690.7	1,687.5	1,697.3	(1)	(1)	(1)	112.9	105.3	105.3	250.9	235.4	235.3
60 Baltimore	952.4	943.0	953.9	(1)	(1)	(1)	54.6	53.4	53.6	170.7	159.2	158.5

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	
138.9	139.7	139.8	500.9	503.7	504.9	107.6	110.2	110.1	331.8	343.2	344.5	418.6	422.7	431.6	1
2.1	2.2	2.2	10.0	10.3	10.2	2.0	2.3	2.3	6.4	6.7	6.8	9.6	10.3	10.3	2
86.4	87.3	88.0	260.8	258.9	259.9	64.8	65.6	65.8	189.8	190.6	193.9	157.7	154.0	156.8	3
4.4	4.4	4.6	22.9	22.5	22.4	4.6	4.6	4.6	15.9	16.3	16.5	30.6	31.7	31.7	4
3.5	3.6	3.5	17.3	16.2	16.0	5.2	5.3	5.3	11.7	11.5	11.3	19.9	19.8	19.9	5
4.8	4.8	4.6	20.1	19.7	19.9	5.7	5.8	5.8	15.9	16.3	16.2	28.6	28.9	29.3	6
9.0	7.8	7.7	19.6	19.4	19.5	4.1	4.1	4.2	15.1	15.6	15.5	15.7	14.4	15.6	7
30.8	31.0	30.9	106.2	105.4	105.0	30.6	31.5	31.2	101.3	104.0	105.7	84.9	81.9	87.2	8
25.7	25.7	25.5	89.1	88.3	88.0	26.5	27.3	27.1	82.7	84.4	85.6	72.2	68.7	73.8	9
21.0	20.4	20.4	83.9	80.9	81.8	23.7	23.4	23.4	59.0	62.2	61.3	71.5	70.7	70.0	10
5.3	5.2	5.2	21.5	20.7	20.7	8.2	8.1	8.0	14.6	15.2	14.8	16.1	16.7	17.4	11
288.6	287.8	288.0	1,150.0	1,116.6	1,117.6	291.0	299.8	298.2	926.7	933.7	936.7	748.6	752.7	757.4	12
3.1	3.0	3.0	11.4	11.0	11.4	7.7	7.5	7.5	8.3	8.0	7.9	11.2	10.7	10.9	13
2.4	2.8	2.8	18.1	18.0	18.3	2.3	2.2	2.2	10.2	9.9	9.8	31.4	29.5	32.3	14
218.0	206.4	(*)	794.8	778.2	(*)	230.1	231.1	(*)	682.3	673.8	(*)	479.9	490.9	(*)	15
201.9	194.9	195.3	739.2	721.8	722.3	220.4	220.7	221.1	647.1	637.4	634.7	447.6	448.9	448.3	16
8.4	6.6	6.6	40.6	40.1	40.3	7.0	7.1	7.1	25.4	25.8	25.3	27.2	26.9	27.1	17
5.0	5.3	5.2	11.3	10.9	11.0	2.9	2.7	2.7	8.4	8.6	8.7	4.8	4.9	4.9	18
1.7	1.6	1.6	8.3	7.1	6.9	1.1	1.2	1.1	6.3	6.7	6.2	7.1	7.1	7.1	19
8.8	8.4	8.3	37.5	35.8	35.1	7.0	7.3	7.3	27.4	26.3	26.7	17.5	17.4	17.6	20
5.1	4.6	4.6	25.7	24.4	24.2	4.1	4.2	4.2	16.4	16.8	16.3	12.2	12.0	11.9	21
5.4	5.4	5.3	19.6	19.1	19.3	6.7	6.6	6.6	15.9	17.0	17.2	27.8	28.0	28.1	22
112.9	104.3	104.5	496.3	491.7	493.1	101.8	101.5	101.4	335.8	352.1	348.9	351.7	378.1	381.1	23
1.6	1.4	1.5	10.6	9.4	9.5	1.7	1.6	1.6	7.1	6.9	6.9	5.8	5.5	5.8	24
2.4	2.0	2.0	14.9	14.5	14.5	2.1	2.1	2.1	8.9	8.8	8.9	5.1	5.0	5.1	25
6.9	6.8	6.8	32.8	31.8	31.7	4.6	4.4	4.5	24.6	24.4	24.5	12.6	12.1	12.7	26
11.7	11.5	11.3	45.2	43.9	43.6	10.5	10.6	10.6	29.0	29.2	29.2	18.1	18.5	18.3	27
16.1	12.0	12.0	55.6	54.3	54.2	9.7	9.4	9.4	35.2	35.3	35.4	32.3	32.6	33.4	28
32.8	32.5	32.6	137.0	138.3	138.7	38.0	39.2	39.1	91.0	94.4	94.5	88.2	89.2	88.8	29
1.6	1.6	1.6	12.1	11.3	11.5	2.7	2.5	2.5	9.3	9.0	9.1	19.9	20.3	20.7	30
2.1	2.0	2.0	12.3	12.3	12.3	1.6	1.6	1.6	7.8	8.2	8.2	11.4	9.3	11.3	31
5.4	4.5	4.5	29.4	28.3	28.2	5.4	5.3	5.3	24.7	23.9	24.0	12.8	12.8	12.9	32
4.2	3.9	3.9	17.2	16.5	16.3	2.2	2.1	2.1	9.8	9.4	9.5	13.0	12.1	12.6	33
58.7	57.8	57.8	290.8	287.2	285.3	57.8	59.0	58.6	206.9	211.6	209.8	208.0	202.7	208.2	34
4.1	3.9	3.9	19.8	19.0	19.0	4.4	4.5	4.5	15.4	15.5	15.6	10.2	10.9	11.1	35
12.1	11.7	11.7	49.4	47.1	47.6	20.1	19.7	19.6	38.6	39.0	38.5	28.4	28.2	28.8	36
1.7	1.6	1.6	9.3	8.8	8.9	1.3	1.2	1.2	10.2	10.4	10.3	4.3	4.3	4.3	37
4.1	3.9	3.9	13.2	13.3	13.3	2.9	2.9	2.9	11.5	11.6	11.7	6.6	6.4	6.6	38
2.7	2.8	2.8	14.1	13.6	13.5	2.1	2.0	2.0	11.1	11.5	11.4	11.3	11.5	11.7	39
66.6	65.2	65.2	228.2	228.7	230.0	46.2	46.5	46.5	168.3	175.8	175.5	182.9	186.3	189.1	40
1.4	1.4	1.4	5.7	6.1	6.2	.9	.9	.9	3.7	3.9	3.8	11.0	11.6	11.5	41
7.5	7.6	7.6	19.5	19.3	19.4	6.1	6.3	6.3	17.3	17.5	17.5	21.9	22.1	22.3	42
10.4	11.0	11.0	45.2	45.3	45.6	9.1	9.1	9.1	37.9	39.8	39.7	24.4	24.8	25.1	43
70.5	67.8	68.5	273.2	259.5	260.4	50.6	50.4	50.4	209.1	213.0	213.6	234.4	229.7	234.5	44
7.6	8.0	8.0	34.1	31.4	31.0	7.1	7.6	7.6	28.3	27.1	27.5	34.9	35.7	36.3	45
25.6	24.1	23.6	91.2	87.8	87.8	22.9	23.3	23.2	76.5	79.3	79.0	60.4	62.0	61.4	46
2.3	2.3	2.3	6.8	6.6	6.7	1.2	1.2	1.2	5.6	5.7	5.7	4.7	4.8	4.8	47
116.2	116.3	116.2	356.3	364.1	365.9	74.1	75.7	76.0	250.4	260.5	261.7	298.9	302.8	306.3	48
2.6	2.5	2.5	11.0	11.3	11.3	2.7	2.9	2.9	10.4	10.9	10.9	15.2	15.0	15.2	49
10.3	10.7	10.8	43.5	45.3	45.8	11.0	11.3	11.5	29.9	30.8	30.8	46.2	47.2	47.2	50
5.1	5.3	5.4	19.7	21.0	21.2	2.4	2.6	2.6	13.6	14.8	14.2	10.1	11.1	11.2	51
3.6	4.0	3.8	14.3	14.2	14.2	2.6	2.7	2.6	9.2	9.2	9.3	11.3	11.3	11.3	52
2.4	2.6	2.6	13.3	13.1	13.2	3.6	3.6	3.6	7.8	8.0	7.9	9.8	9.9	9.9	53
50.4	49.7	49.4	123.5	124.6	125.0	30.3	30.8	31.0	104.9	105.0	105.9	83.6	81.9	82.8	54
10.3	10.6	10.6	35.2	36.3	36.5	7.1	7.6	7.5	25.9	26.5	26.3	24.3	25.5	25.5	55
19.2	19.6	19.5	91.6	90.8	89.2	16.5	17.0	16.8	75.6	79.5	77.1	84.5	79.6	83.2	56
1.1	1.2	1.2	8.7	8.4	8.4	1.5	1.7	1.6	7.6	7.8	7.8	3.4	3.1	3.2	57
5.5	5.4	5.4	25.2	25.8	25.7	7.2	7.6	7.6	18.6	19.0	18.5	12.9	12.1	13.6	58
83.4	85.8	85.8	404.4	414.5	410.6	89.4	94.0	93.2	353.7	365.9	365.1	396.0	386.6	402.0	59
59.1	58.0	58.4	216.5	213.6	214.5	55.9	58.5	58.4	189.0	200.0	200.5	206.6	200.3	210.0	60

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
1 MASSACHUSETTES	2,632.4	2,673.3	2,690.4	(1)	(1)	(1)	83.6	84.0	84.4	676.9	660.4	660.9
2 Boston	1,457.0	1,485.4	1,494.0	(1)	(1)	(1)	44.8	44.7	45.3	290.6	286.1	287.6
3 Brockton	58.4	58.6	59.1	(1)	(1)	(1)	1.8	1.8	1.7	12.7	12.8	13.2
4 Fall River	58.0	57.4	57.7	(1)	(1)	(1)	1.7	1.8	1.5	20.9	19.5	20.0
5 Lawrence—Haverhill	108.6	110.5	110.7	(1)	(1)	(1)	3.3	3.0	3.0	41.7	43.7	43.6
6 Lowell	75.1	76.5	76.9	(1)	(1)	(1)	3.0	3.1	3.1	26.6	27.6	28.0
7 New Bedford	65.7	64.2	63.9	(1)	(1)	(1)	1.8	1.6	1.6	26.1	25.2	24.9
8 Springfield—Chicopee—Holyoke	237.0	229.4	231.1	(1)	(1)	(1)	6.8	6.1	5.9	69.5	64.4	64.3
9 Worcester	167.3	163.2	165.2	(1)	(1)	(1)	5.2	4.9	5.0	48.9	46.0	46.5
10 MICHIGAN	3,645.3	3,453.4	(*)	13.5	11.8	(*)	155.8	128.8	(*)	1,122.9	979.9	(*)
11 Ann Arbor	142.0	133.7	(*)	(1)	(1)	(*)	3.5	2.9	(*)	44.9	41.1	(*)
12 Battle Creek	66.4	64.6	(*)	(1)	(1)	(*)	2.3	2.1	(*)	22.7	20.6	(*)
13 Bay City	35.5	33.1	(*)	(1)	(1)	(*)	1.4	1.3	(*)	10.9	9.1	(*)
14 Detroit	1,781.3	1,695.4	(*)	1.3	1.3	(*)	66.0	55.1	(*)	559.5	485.6	(*)
15 Flint	201.6	184.2	(*)	(1)	(1)	(*)	6.4	7.9	(*)	83.7	65.8	(*)
16 Grand Rapids	274.7	269.4	(*)	(1)	(1)	(*)	15.3	13.4	(*)	95.2	90.5	(*)
17 Jackson	55.5	51.3	(*)	(1)	(1)	(*)	2.3	1.2	(*)	16.5	14.3	(*)
18 Kalamazoo—Portage	113.1	109.3	110.5	(1)	(1)	(1)	4.9	4.3	4.2	36.2	32.1	31.9
19 Lansing—East Lansing	199.0	189.6	196.4	(1)	(1)	(1)	7.7	7.5	7.4	43.4	38.5	39.4
20 Muskegon—Norton Shores—Musk. Hghts.	62.7	58.1	60.6	(1)	(1)	(1)	3.1	2.3	2.3	22.8	17.8	19.9
21 Saginaw	89.8	83.7	85.5	(1)	(1)	(1)	2.8	2.4	2.3	34.6	28.7	30.5
22 MINNESOTA	1,813.3	1,796.0	1,794.6	17.8	15.7	13.8	97.0	85.9	83.9	392.6	380.4	371.2
23 Duluth—Superior	63.0	61.2	60.6	(1)	(1)	(1)	2.6	2.3	2.3	8.1	7.7	7.8
24 Minneapolis—St. Paul	1,097.8	1,086.6	1,098.9	(1)	(1)	(1)	53.7	47.1	46.7	253.0	244.9	242.4
25 Rochester	51.1	51.0	50.7	(2)	(2)	(2)	2.5	2.5	2.4	10.6	10.4	10.2
26 St. Cloud	54.3	52.5	53.4	(1)	(1)	(1)	2.3	2.9	3.0	13.0	11.6	11.3
27 MISSISSIPPI	851.1	824.0	828.9	9.8	10.1	10.1	49.6	45.1	44.4	236.6	218.0	218.7
28 Jackson	149.2	147.8	147.8	1.3	1.3	1.4	8.5	7.2	6.9	19.2	18.8	18.9
29 MISSOURI	2,031.2	1,986.7	1,983.5	8.2	7.5	7.2	100.0	81.3	80.2	456.2	427.3	424.9
30 Kansas City	639.8	616.4	613.5	.6	.5	.5	31.0	25.1	25.2	127.3	118.3	115.7
31 St. Joseph	37.5	36.9	36.7	(2)	(2)	(2)	2.1	1.9	2.0	9.2	9.2	8.9
32 St. Louis	999.6	964.6	967.3	3.2	3.1	3.1	47.6	42.0	42.7	249.7	232.7	232.5
33 Springfield	86.2	83.3	83.6	(2)	(2)	(2)	4.2	3.9	3.8	18.4	17.1	17.2
34 MONTANA	292.5	286.3	285.2	7.9	6.6	6.4	17.5	17.5	17.7	27.4	24.2	24.1
35 Billings	49.4	49.3	49.2	(1)	(1)	(1)	3.0	2.8	2.7	4.6	4.4	4.4
36 Great Falls	30.5	30.1	29.8	(1)	(1)	(1)	2.1	2.2	2.1	1.7	1.3	1.3
37 NEBRASKA	632.8	631.5	630.5	1.8	1.5	1.5	35.8	34.4	34.4	100.7	94.5	96.5
38 Lincoln	101.7	102.9	101.8	(2)	(2)	(2)	5.3	4.9	4.9	13.6	13.3	13.6
39 Omaha	267.4	265.1	265.6	(2)	(2)	(2)	12.4	12.1	12.0	38.3	35.4	35.6
40 NEVADA	394.4	403.7	403.8	4.9	6.4	6.4	27.9	24.3	24.0	20.2	19.7	19.1
41 Las Vegas	215.0	220.9	220.9	.5	.8	.8	16.1	14.1	13.9	7.0	7.6	6.8
42 Reno	117.9	118.7	118.8	.8	.9	.9	7.5	6.4	6.4	8.2	8.0	8.1
43 NEW HAMPSHIRE	382.7	386.8	384.8	.4	.5	.5	23.9	20.8	20.7	117.1	115.2	115.1
44 Manchester	74.0	73.8	74.0	(2)	(2)	(2)	3.7	3.3	3.2	18.5	17.2	17.2
45 Nashua	60.9	63.8	64.2	(2)	(2)	(2)	2.6	2.5	2.5	28.4	30.3	30.5
46 NEW JERSEY	3,060.8	3,042.8	3,052.0	2.7	2.7	2.6	125.1	117.7	117.5	810.5	777.3	777.1
47 Atlantic City	83.0	95.3	93.0	-	-	-	7.8	6.6	6.8	8.8	8.6	8.6
48 Camden	332.8	326.6	331.0	.1	.1	.1	15.3	13.4	13.5	73.6	68.7	70.1
49 Hackensack	398.9	388.3	396.2	(1)	(1)	(1)	15.7	12.5	12.5	111.5	105.9	106.3
50 Jersey City	235.0	224.4	226.9	-	-	-	4.7	4.1	4.0	74.5	67.0	67.8
51 Long Branch—Asbury Park	157.1	158.5	158.4	(1)	(1)	(1)	6.5	4.8	4.7	25.1	25.0	24.9
52 New Bruns.—Perth Amboy—Sayreville	286.5	283.1	285.3	(1)	(1)	(1)	12.1	11.6	11.3	90.9	88.7	88.7
53 Newark	957.6	933.5	942.7	.8	.9	.9	37.7	32.4	32.7	258.2	246.0	246.3
54 Paterson—Clifton—Passaic	191.7	186.5	188.7	(1)	(1)	(1)	6.7	6.4	6.2	69.9	66.3	66.7
55 Trenton	167.1	161.5	(*)	(1)	(1)	(*)	3.4	3.3	(*)	36.1	32.8	(*)
56 Vineland—Millville—Bridgeton	55.9	55.3	55.3	(1)	(1)	(1)	1.7	1.5	1.5	18.7	18.2	18.0
57 NEW MEXICO	470.7	476.6	473.3	27.5	28.2	28.1	37.8	35.3	34.5	35.5	35.0	34.7
58 Albuquerque	191.2	194.2	194.2	(1)	(1)	(1)	16.3	15.5	15.2	18.6	18.1	18.1
59 NEW YORK	7,243.4	7,154.3	7,190.1	6.5	6.2	6.2	225.0	201.1	197.8	1,518.4	1,462.0	1,464.9
60 Albany—Schenectady—Troy	340.3	337.5	338.1	(1)	(1)	(1)	12.6	12.1	11.6	60.1	57.5	57.6
61 Binghamton	119.6	116.0	117.5	(1)	(1)	(1)	4.7	3.5	3.5	43.3	41.4	41.6
62 Buffalo	520.7	506.4	510.7	(1)	(1)	(1)	21.4	21.2	20.8	145.4	131.7	134.1

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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	
121.5	124.5	124.5	573.6	592.6	595.0	147.8	150.8	148.5	612.9	659.3	662.5	416.1	401.7	414.6	1
72.5	75.7	75.6	316.2	330.9	330.2	103.8	108.1	107.2	413.7	433.9	439.6	215.4	206.0	208.5	2
4.4	4.6	4.5	16.0	16.4	15.8	2.1	2.1	2.0	9.4	9.4	9.6	12.0	11.5	12.3	3
1.9	1.8	1.8	11.7	12.0	11.8	2.6	2.5	2.5	11.0	11.3	11.7	8.7	8.5	8.4	4
4.7	4.6	4.7	21.5	21.5	21.1	3.9	3.9	3.9	16.3	16.8	16.9	17.2	17.0	17.5	5
3.3	3.5	3.3	15.5	15.7	15.4	2.1	1.9	2.0	11.4	11.7	11.8	13.2	13.0	13.3	6
2.3	2.2	2.2	12.8	12.4	12.2	2.0	2.0	2.0	9.5	10.2	9.9	11.2	10.6	11.1	7
9.5	9.1	9.1	47.5	46.9	46.8	12.3	12.7	12.7	43.9	45.7	44.4	47.5	44.5	47.9	8
7.0	6.9	6.9	36.4	36.1	36.3	9.0	9.3	9.2	33.5	32.4	33.5	27.3	27.6	27.8	9
161.0	152.9	(*)	761.3	752.2	(*)	154.2	157.6	(*)	640.0	656.8	(*)	636.5	613.5	(*)	10
3.6	3.5	(*)	20.3	19.5	(*)	3.6	3.7	(*)	21.1	21.8	(*)	45.0	41.2	(*)	11
2.4	2.4	(*)	11.3	11.5	(*)	3.6	3.6	(*)	11.6	11.8	(*)	12.5	12.5	(*)	12
1.9	2.0	(*)	8.1	8.3	(*)	1.2	1.3	(*)	6.9	7.1	(*)	5.1	4.0	(*)	13
86.7	83.7	(*)	370.5	364.4	(*)	89.2	91.1	(*)	345.4	354.3	(*)	262.7	259.8	(*)	14
7.2	6.9	(*)	40.5	39.6	(*)	5.9	5.7	(*)	30.6	31.5	(*)	27.3	26.8	(*)	15
10.8	10.5	(*)	60.9	61.9	(*)	10.1	10.2	(*)	50.6	51.2	(*)	31.8	31.7	(*)	16
5.1	5.2	(*)	11.0	10.3	(*)	1.5	1.5	(*)	10.2	9.6	(*)	8.9	9.2	(*)	17
4.0	4.2	4.1	21.5	22.2	22.3	3.5	3.5	3.4	21.6	23.1	23.3	21.4	19.9	21.3	18
5.6	5.8	5.7	36.5	35.8	36.3	9.2	9.1	9.2	27.0	27.1	27.2	69.6	65.8	71.2	19
3.1	3.0	3.0	11.6	12.0	11.8	1.7	1.8	1.8	9.8	10.8	10.5	10.4	10.4	11.3	20
4.9	4.9	4.9	17.5	17.3	17.5	3.8	3.7	3.8	14.2	15.0	14.6	12.0	11.7	11.9	21
103.3	101.1	101.4	450.3	454.3	450.3	93.2	96.9	96.8	362.0	377.3	378.0	297.1	284.4	299.2	22
7.2	6.8	6.8	16.9	15.8	17.0	2.3	2.3	2.3	12.9	13.2	12.9	13.1	13.2	12.4	23
65.5	65.9	66.2	268.2	272.6	274.8	68.4	70.8	70.8	232.9	240.4	241.8	156.2	145.0	156.3	24
2.0	2.0	2.0	10.1	10.0	10.1	1.5	1.6	1.5	18.5	18.6	18.6	5.9	5.9	5.8	25
3.5	3.6	3.7	13.2	12.7	12.8	1.8	1.8	1.8	9.0	9.3	9.6	11.6	10.6	11.2	26
43.1	41.9	42.7	164.1	162.9	163.1	33.1	33.2	33.1	120.3	120.1	121.8	194.6	192.6	195.0	27
10.1	10.2	10.2	35.4	35.2	35.3	11.5	11.5	11.5	28.8	29.1	29.3	34.3	34.5	34.4	28
145.9	141.2	141.8	480.3	486.4	483.6	108.8	110.0	109.5	385.0	397.8	394.7	346.8	335.2	341.6	29
54.5	50.7	50.6	162.3	154.1	153.5	43.9	44.2	44.1	128.8	133.3	132.4	91.4	90.2	91.5	30
2.1	2.1	2.1	9.4	8.9	8.8	1.8	1.9	1.9	6.8	7.1	7.0	6.1	5.8	6.0	31
68.8	69.9	70.0	227.2	218.8	218.8	57.2	55.9	55.9	205.2	206.5	206.1	140.8	135.7	138.2	32
6.6	6.7	6.8	24.3	23.1	23.2	3.4	3.3	3.4	17.7	17.6	17.5	11.6	11.6	11.7	33
24.0	23.4	23.2	75.6	74.6	73.3	12.9	13.0	13.0	55.0	57.1	55.9	72.2	69.9	71.4	34
5.0	5.0	5.0	16.2	15.9	16.0	2.4	2.3	2.3	10.3	10.8	10.7	7.9	8.1	8.0	35
1.9	2.0	1.9	10.0	9.8	9.7	2.1	2.1	2.1	6.8	7.0	7.0	5.9	5.7	5.7	36
47.1	46.4	46.2	165.6	165.0	165.6	41.2	42.6	42.7	116.8	120.5	120.3	123.8	126.6	123.3	37
7.4	7.2	7.3	22.8	22.6	22.8	7.3	7.4	7.4	16.5	16.8	16.8	28.8	30.7	29.0	38
25.0	24.6	24.7	70.0	68.2	68.7	24.5	25.1	25.2	59.2	60.5	60.4	38.0	39.2	39.0	39
23.7	24.9	24.8	80.0	82.6	82.5	17.2	17.7	17.7	164.4	170.5	171.1	56.1	57.6	58.2	40
12.7	13.5	13.4	44.7	45.7	45.6	9.6	10.1	10.1	99.0	102.7	103.6	25.4	26.4	26.7	41
8.3	8.7	8.7	25.5	26.3	26.4	6.1	6.1	6.1	45.1	46.2	45.9	15.8	16.1	16.3	42
13.7	14.0	14.1	83.9	86.5	85.4	18.9	19.8	20.1	67.0	71.2	69.3	57.8	58.8	59.6	43
4.9	4.9	4.9	18.5	19.3	19.4	6.2	6.3	6.4	13.9	14.2	14.3	8.3	8.6	8.6	44
2.0	2.0	2.0	11.8	12.3	12.5	1.9	2.0	2.0	8.6	8.8	8.8	5.6	5.9	5.9	45
191.6	184.5	181.3	682.3	681.0	677.9	153.1	155.0	154.8	577.4	611.0	606.3	518.2	513.6	534.5	46
3.7	3.9	3.8	17.7	20.6	19.3	5.1	5.1	5.2	25.1	35.8	34.5	14.7	14.7	14.8	47
15.6	14.5	14.2	87.1	86.4	86.8	16.2	16.5	16.8	64.6	66.2	66.3	60.4	60.8	63.2	48
20.1	19.4	19.4	117.5	114.2	117.3	16.4	17.1	17.1	74.0	76.5	76.8	43.8	42.7	46.8	49
27.9	24.8	24.5	44.9	45.3	46.0	8.0	8.0	8.0	31.7	31.1	31.9	43.4	44.1	44.7	50
6.1	6.0	5.9	38.3	39.1	38.4	7.8	7.8	7.7	40.0	42.4	42.0	33.3	33.4	34.8	51
21.6	23.1	22.8	67.0	65.4	66.4	9.6	10.0	9.9	39.0	42.1	41.6	46.2	42.2	44.6	52
71.2	70.3	67.3	184.2	177.5	179.8	64.1	64.0	63.8	188.4	193.7	196.1	152.9	148.7	155.8	53
6.8	6.4	6.2	42.8	40.3	40.9	8.8	8.9	8.9	30.9	33.0	33.0	25.7	25.2	26.8	54
5.8	5.8	(*)	25.4	24.1	(*)	6.7	6.8	(*)	43.5	42.2	(*)	46.3	46.5	(*)	55
3.0	2.8	2.8	9.7	9.3	9.3	2.0	2.0	2.0	8.4	6.6	8.7	12.4	12.9	13.0	56
28.9	29.1	29.1	105.8	109.1	108.2	21.5	22.3	22.3	89.2	92.3	89.9	124.5	125.3	126.5	57
12.0	12.2	12.2	47.7	48.9	48.7	11.1	11.5	11.5	43.3	45.5	45.4	42.2	42.5	43.1	58
438.6	438.5	437.9	1,488.4	1,478.1	1,479.9	605.4	617.1	616.8	1,662.5	1,690.4	1,700.3	1,298.7	1,260.8	1,286.3	59
16.1	15.8	15.8	69.8	69.2	69.1	15.5	15.8	15.7	69.6	71.1	72.0	96.6	96.0	96.2	60
4.7	4.6	4.5	21.5	21.6	21.6	3.9	4.1	4.1	18.1	18.2	18.3	23.4	22.6	23.8	61
29.2	28.0	27.9	117.5	117.5	117.0	22.1	22.6	22.6	99.1	100.9	100.8	86.1	84.5	87.5	62

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
NEW YORK—Continued												
1 Elmira	38.3	36.9	37.6	(1)	(1)	(1)	1.6	1.2	1.2	12.3	11.5	11.4
2 Monroe County ⁹	339.5	335.4	340.4	(1)	(1)	(1)	10.8	9.6	9.3	134.5	135.0	134.6
3 Nassau—Suffolk ¹⁰	898.3	897.9	903.9	(1)	(1)	(1)	37.6	35.6	35.1	166.9	163.3	164.5
4 New York—Northeastern New Jersey	6,710.5	6,634.6	(*)	3.0	3.1	(*)	206.5	190.4	(*)	1,397.1	1,339.2	(*)
5 New York and Nassau—Suffolk ⁸	4,640.7	4,616.2	4,637.9	1.7	1.7	1.7	129.6	123.8	122.5	792.2	766.9	769.9
6 New York SMSA ¹⁰	3,742.4	3,718.3	3,734.0	1.5	1.5	1.5	92.0	88.2	87.4	625.3	603.6	605.4
7 New York City ¹¹	3,295.4	3,269.0	3,283.2	1.2	1.2	1.2	72.5	70.4	69.7	530.4	508.9	510.8
8 Poughkeepsie	98.5	98.0	98.5	(1)	(1)	(1)	3.1	2.8	2.8	32.8	32.7	32.6
9 Rochester	420.8	413.2	418.3	(1)	(1)	(1)	13.9	11.9	11.5	158.0	157.4	156.3
10 Rockland County ¹¹	80.9	81.7	82.2	(1)	(1)	(1)	2.8	2.6	2.7	15.6	16.0	16.0
11 Syracuse	268.9	261.1	263.5	(1)	(1)	(1)	12.4	8.4	8.2	61.4	58.8	58.5
12 Utica—Rome	118.2	115.2	116.0	(1)	(1)	(1)	3.5	3.1	3.0	32.9	30.2	30.5
13 Westchester County ¹¹	353.7	354.7	(*)	(1)	(1)	(*)	15.8	14.4	(*)	77.9	77.4	(*)
NORTH CAROLINA												
14 Asheville	72.2	70.8	70.7	(1)	(1)	(1)	3.3	3.0	3.0	22.2	21.2	21.3
16 Charlotte—Gastonia	328.1	325.5	327.3	(1)	(1)	(1)	18.1	17.6	17.7	89.2	85.6	86.5
17 Greensboro—Winston-Salem—High Pt.	394.1	391.7	392.7	(1)	(1)	(1)	16.8	16.2	16.1	152.4	150.1	150.6
18 Raleigh—Durham	272.2	272.6	273.4	(1)	(1)	(1)	15.6	13.4	13.2	44.5	43.3	43.4
NORTH DAKOTA												
19 Fargo—Moorhead	251.5	249.1	252.0	5.8	7.6	7.7	22.0	17.0	16.9	17.5	14.8	15.5
20 Fargo—Moorhead	64.8	61.7	63.4	(2)	(2)	(2)	5.1	3.9	4.0	5.4	4.6	4.7
OHIO												
21 Akron	275.0	268.0	267.7	(*)	(*)	(*)	10.4	9.0	8.8	84.7	76.5	76.6
23 Canton	162.7	157.9	158.2	(*)	(*)	(*)	7.3	6.5	6.6	57.9	53.0	52.7
24 Cincinnati	617.6	611.1	613.7	(*)	(*)	(*)	30.2	28.7	28.3	174.7	162.5	163.4
25 Cleveland	926.1	906.9	909.2	(*)	(*)	(*)	36.8	34.5	33.8	272.5	249.1	251.9
26 Columbus	514.9	507.0	514.6	(*)	(*)	(*)	23.2	20.9	20.5	100.7	93.5	93.8
27 Dayton	369.5	360.7	364.1	(*)	(*)	(*)	15.4	14.9	14.7	107.2	98.4	99.3
28 Toledo	310.7	298.8	303.7	(*)	(*)	(*)	13.0	11.9	11.7	87.8	80.4	79.8
29 Youngstown—Warren	217.4	203.8	204.3	(*)	(*)	(*)	7.8	7.1	6.9	79.5	66.9	67.1
OKLAHOMA												
30 Oklahoma City	390.5	410.9	411.8	14.0	15.6	15.7	20.4	22.0	21.8	55.0	55.5	55.5
32 Tulsa	288.0	295.9	296.7	18.4	19.9	20.1	16.0	16.9	16.8	60.5	61.2	61.4
OREGON												
33 Eugene—Springfield	106.6	101.1	102.7	(1)	(1)	(1)	6.1	4.6	4.4	21.8	20.3	20.2
35 Jackson County	—	—	—	—	—	—	—	—	—	8.5	7.8	7.6
36 Portland	563.1	548.2	549.8	(1)	(1)	(1)	30.3	25.8	25.5	119.0	114.5	113.5
37 Salem	94.2	92.0	91.0	(1)	(1)	(1)	5.3	4.9	4.6	17.9	17.8	16.9
PENNSYLVANIA												
38 Allentown—Bethlehem—Easton	264.6	260.9	262.6	(1)	(1)	(1)	10.0	10.2	10.2	111.1	109.9	108.8
40 Altoona	54.0	53.4	53.0	(1)	(1)	(1)	3.2	2.8	2.9	13.3	13.1	12.9
41 Delaware Valley ¹²	1,614.8	1,561.1	1,597.8	(1)	(1)	(1)	67.3	68.4	68.7	384.1	367.8	367.9
42 Erie	118.7	113.7	114.6	(1)	(1)	(1)	3.8	3.9	3.9	45.3	40.5	40.7
43 Harrisburg	218.8	215.1	216.0	(1)	(1)	(1)	9.1	8.3	8.4	43.7	42.7	42.8
44 Johnstown	92.5	85.3	86.0	9.3	8.0	8.1	4.1	3.3	3.2	20.2	17.8	17.5
45 Lancaster	154.3	149.6	150.9	(1)	(1)	(1)	8.4	7.5	7.6	60.1	57.7	57.9
46 Northeast Pennsylvania	246.9	241.5	241.8	1.3	1.2	1.2	14.2	12.3	12.3	77.8	73.4	73.2
47 Philadelphia SMSA	1,947.4	1,887.3	1,928.7	(1)	(1)	(1)	82.2	81.8	82.2	458.4	436.4	437.9
48 Philadelphia City ¹³	813.0	772.7	802.5	(1)	(1)	(1)	20.1	22.1	22.8	144.1	140.3	141.0
49 Pittsburgh	970.0	930.8	937.5	11.2	9.9	9.9	53.2	47.6	48.1	255.0	232.1	238.1
50 Reading	141.8	138.3	140.4	(1)	(1)	(1)	6.0	5.6	5.7	55.4	53.0	53.1
51 Scranton ¹⁴	87.4	87.2	86.8	(1)	(1)	(1)	3.1	2.5	2.5	28.0	28.7	28.6
52 Wilkes-Barre—Hazleton ¹⁵	129.7	123.9	125.1	1.1	1.1	1.1	9.5	8.2	8.2	40.0	39.3	39.1
53 Williamsport	47.9	47.4	46.8	(1)	(1)	(1)	1.7	2.0	1.8	17.5	16.6	16.0
54 York	159.3	155.3	157.4	(1)	(1)	(1)	7.8	7.4	7.2	68.1	65.1	66.9
RHODE ISLAND												
55 Providence—Warwick—Pawtucket	404.7	394.9	396.4	(1)	(1)	(1)	15.1	12.7	12.6	134.3	126.8	128.4
56 Providence—Warwick—Pawtucket	415.1	404.3	405.9	(1)	(1)	(1)	15.3	13.0	12.8	149.6	141.7	143.6
SOUTH CAROLINA												
57 Charleston—North Charleston	147.9	146.4	147.7	(1)	(1)	(1)	11.4	11.5	11.6	19.5	18.1	18.3
59 Columbia	180.4	179.4	180.2	(1)	(1)	(1)	8.3	7.8	7.8	28.1	27.7	27.7
60 Greenville—Spartanburg	266.0	259.2	259.6	(1)	(1)	(1)	16.9	16.2	16.2	107.4	100.3	100.1
SOUTH DAKOTA												
61 Rapid City	30.9	31.8	30.7	(2)	(2)	(2)	2.8	2.5	2.4	3.2	3.4	3.5
63 Sioux Falls	54.3	50.7	50.4	(2)	(2)	(2)	3.0	2.4	2.3	7.8	6.7	6.6

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	
1.5	1.4	1.4	8.1	8.4	8.8	1.0	1.1	1.1	7.0	6.9	7.2	6.9	6.4	6.6	1
10.2	10.0	9.9	61.8	60.7	61.5	14.8	14.9	14.9	66.9	67.0	69.3	40.5	38.3	40.8	2
37.7	38.4	38.7	235.9	241.4	241.4	51.0	51.4	51.2	196.5	201.4	199.8	172.7	166.4	173.2	3
469.5	464.9	(*)	1,418.0	1,395.4	(*)	608.1	618.1	(*)	1,533.3	1,566.3	(*)	1,075.0	1,057.2	(*)	4
321.7	320.8	320.7	961.9	952.5	957.4	501.1	510.2	510.1	1,169.5	1,191.3	1,198.0	763.1	749.0	757.7	5
284.0	282.5	282.0	726.0	711.1	716.0	450.1	458.8	459.0	973.2	990.2	998.3	590.4	582.5	584.5	6
260.9	259.1	258.7	623.1	606.2	610.7	429.9	438.1	438.4	868.1	884.1	892.0	509.4	501.1	501.7	7
2.8	2.7	2.7	16.3	16.3	16.2	2.6	2.6	2.6	17.6	17.6	17.6	23.3	23.3	24.0	8
13.0	12.7	12.7	79.4	78.2	79.1	16.4	16.6	16.5	78.8	78.6	81.1	61.3	57.8	61.1	9
3.6	3.6	3.6	17.6	17.8	17.8	2.5	2.5	2.4	17.8	18.3	18.2	21.0	21.0	21.5	10
15.5	15.4	15.3	60.3	60.3	59.9	15.5	16.1	16.2	54.3	53.8	55.2	49.4	48.1	50.1	11
4.1	4.0	4.0	23.6	23.1	23.1	5.6	5.7		20.7	20.7		28.8	28.4		12
19.0	19.1	(*)	82.0	83.7	(*)	17.3	17.8	(*)	84.8	85.2	(*)	57.0	57.2	(*)	13
116.8	117.9	117.9	494.3	504.6	505.1	94.6	97.8	97.8	341.7	356.9	356.9	405.8	411.9	417.7	14
3.8	3.8	3.8	15.3	15.6	15.6	2.1	2.3	2.3	14.1	13.4	13.3	11.4	11.5	11.4	15
31.2	30.4	30.6	85.0	84.9	85.2	20.4	20.7	20.7	48.7	50.2	50.3	35.5	36.1	36.3	16
21.6	20.8	20.9	79.3	78.3	78.3	18.2	18.2	18.1	57.4	58.9	59.0	48.4	49.2	49.7	17
13.1	14.0	13.9	52.7	52.1	52.7	15.1	15.9	15.7	57.3	59.3	59.1	73.9	74.6	75.4	18
16.7	16.8	17.2	68.8	70.7	70.5	11.1	11.4	11.5	48.4	50.7	50.8	61.2	60.1	61.9	19
4.2	4.1	4.2	19.3	18.8	18.8	3.8	3.9	3.8	14.3	13.7	14.7	13.3	12.7	13.2	20
238.1	240.3	239.5	991.8	982.0	981.2	201.8	206.3	205.4	824.8	855.1	855.1	680.2	665.8	693.6	21
15.8	16.2	16.0	59.2	59.2	58.8	9.5	9.4	9.3	51.1	53.7	52.8	43.8	43.7	44.9	22
7.9	7.7	7.7	35.3	35.3	35.0	5.6	5.8	5.8	29.6	30.7	30.6	18.1	17.9	18.9	23
35.3	35.8	35.5	140.8	140.3	140.2	32.4	33.2	33.2	121.6	128.4	128.7	82.2	81.7	84.1	24
49.4	49.2	49.1	213.9	213.9	213.4	48.1	49.2	48.7	184.0	191.6	190.3	117.3	117.9	120.4	25
25.5	26.1	26.0	123.6	122.1	123.0	36.2	38.7	38.6	102.9	106.3	108.7	102.0	98.8	103.2	26
13.4	13.8	13.7	77.1	76.0	76.1	13.5	13.8	13.7	72.5	75.0	75.8	69.9	68.5	70.3	27
22.2	22.7	22.5	69.6	67.9	68.3	10.6	10.9	10.8	60.6	61.8	62.1	46.4	42.6	47.8	28
10.6	10.6	10.5	47.5	46.9	46.6	7.1	7.0	7.0	37.9	39.8	39.1	26.4	25.1	26.6	29
65.9	65.4	65.7	261.5	272.4	272.2	54.3	55.6	55.6	187.0	204.7	203.8	231.3	231.9	235.9	30
22.9	22.9	22.9	97.3	104.6	105.3	24.3	25.0	24.8	69.3	74.3	74.1	87.3	91.0	91.7	31
22.6	23.3	23.1	70.0	71.7	71.6	14.6	14.9	14.9	55.4	57.4	57.8	30.5	30.6	31.0	32
60.9	60.5	60.4	262.3	260.1	258.5	70.7	69.5	70.0	186.7	184.1	184.4	201.5	190.3	199.2	33
5.4	5.2	5.2	26.5	25.3	25.4	5.5	5.5	5.4	19.4	19.2	19.4	21.9	21.0	22.7	34
36.1	36.1	35.9	144.5	142.3	142.4	44.7	44.1	44.3	107.2	106.7	107.3	81.3	78.7	80.9	35
2.8	2.9	2.9	19.6	19.7	19.4	5.7	5.6	5.5	15.5	15.0	14.9	27.4	26.1	26.8	36
276.2	259.0	260.1	1,002.7	964.6	974.7	237.1	241.3	241.7	995.7	997.0	1,010.4	714.0	677.0	722.3	37
14.3	14.6	14.6	50.7	49.5	49.8	8.5	8.7	8.8	41.1	41.8	42.0	28.9	27.1	28.4	38
7.6	6.7	6.8	12.2	12.3	12.2	1.5	1.5	1.5	8.8	9.0	8.9	7.4	8.0	7.8	39
87.5	82.2	80.5	335.9	327.3	332.0	109.4	110.2	110.8	391.6	399.0	404.4	239.0	206.2	233.5	40
5.4	5.2	5.4	24.7	25.0	25.2	4.7	4.9	4.9	21.5	21.5	21.4	13.3	12.7	13.1	41
17.3	16.8	16.6	43.9	41.3	41.8	12.5	12.8	12.8	37.4	39.0	38.7	54.9	54.2	54.9	42
6.3	4.8	5.8	16.7	16.7	16.7	4.0	4.0	4.0	16.1	16.5	16.3	15.8	14.2	14.4	43
6.6	6.8	6.9	34.2	33.5	33.7	5.3	5.5	5.5	24.8	24.8	25.3	14.9	13.8	14.0	44
13.8	13.6	13.8	52.1	50.8	51.0	9.4	9.6	9.6	43.2	44.0	42.9	40.1	36.6	37.8	45
103.3	96.7	94.7	423.0	413.5	418.8	125.6	126.7	127.5	456.1	465.2	470.9	298.8	267.0	296.7	46
57.8	53.2	52.4	154.8	148.3	152.8	69.9	69.2	69.7	220.9	219.9	223.6	145.4	119.7	140.2	47
63.4	57.6	59.1	207.9	203.6	202.5	44.7	45.4	45.5	210.4	207.0	206.5	124.2	127.6	127.8	48
6.7	6.8	6.7	27.7	26.9	27.7	6.0	6.3	6.3	23.3	23.6	23.8	16.7	16.1	17.1	49
4.3	4.4	4.4	20.3	19.4	19.4	3.3	3.4	3.4	16.4	17.4	17.1	12.0	11.4	11.4	50
7.3	7.1	7.2	26.8	26.1	26.6	5.3	5.4	5.4	19.4	18.6	18.3	20.3	18.1	19.2	51
2.3	2.3	2.3	10.0	10.0	10.1	2.1	2.1	2.1	7.8	8.2	8.1	6.5	6.2	6.4	52
7.1	7.1	7.1	32.3	31.2	31.6	3.9	4.1	4.1	21.1	22.1	21.6	19.0	18.3	18.9	53
13.5	13.3	13.0	81.5	79.8	80.1	21.1	20.3	20.3	79.4	82.6	81.9	59.8	59.4	60.1	54
13.3	13.1	12.8	82.9	80.5	80.9	21.1	20.4	20.5	76.2	79.2	78.6	56.7	56.4	56.7	55
54.7	53.9	54.7	226.3	230.4	228.3	47.4	48.7	49.0	154.9	159.7	159.4	233.6	231.1	239.7	56
9.1	9.8	9.8	31.9	31.7	31.8	6.3	6.6	6.6	24.1	25.2	24.9	45.6	43.5	44.7	57
9.3	9.6	9.5	38.2	37.8	38.0	13.6	14.3	14.3	26.9	26.3	26.3	56.0	55.9	56.6	58
10.5	9.8	10.0	51.4	51.9	51.8	9.2	9.6	9.6	36.1	37.0	37.0	34.5	34.4	34.9	59
13.9	13.6	13.5	67.1	66.4	64.9	11.4	12.2	12.0	48.9	50.3	49.7	57.7	57.4	58.8	60
2.0	1.8	1.8	9.5	9.8	9.1	1.4	1.3	1.3	6.2	7.2	6.8	5.8	5.8	5.8	61
5.0	4.6	4.6	16.1	14.9	14.7	3.7	3.5	3.3	12.0	12.0	12.2	6.7	6.6	6.7	62
															63

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
1 TENNESSEE	1,813.7	1,767.8	1,774.6	10.6	10.0	9.7	96.1	88.9	86.2	535.0	510.5	509.8
2 Chattanooga	176.7	173.4	173.8	1.3	1.4	1.4	7.4	6.4	6.4	54.4	52.3	53.0
3 Knoxville	196.0	193.7	197.0	1.3	1.6	1.6	11.9	11.0	11.0	53.2	51.8	51.6
4 Memphis	362.2	357.0	357.5	.2	.2	.2	16.0	16.5	16.5	63.3	59.3	60.1
5 Nashville—Davidson	371.2	358.6	(*)	(1)	(1)	(*)	22.0	19.2	(*)	83.3	78.0	(*)
6 TEXAS	5,707.2	5,857.4	5,894.7	203.6	226.3	227.3	435.7	436.9	439.2	1,038.9	1,044.9	1,048.2
7 Amarillo	76.4	74.6	75.1	(1)	(1)	(1)	5.3	5.1	5.2	9.4	8.7	8.7
8 Austin	234.5	238.3	240.4	(1)	(1)	(1)	13.3	13.2	13.1	29.7	30.3	30.5
9 Beaumont—Port Arthur—Orange	147.6	145.9	146.3	(1)	(1)	(1)	12.7	10.3	10.2	42.3	43.1	43.1
10 Corpus Christi	121.6	122.6	122.3	6.7	7.0	7.0	15.0	12.7	12.7	14.9	15.7	15.7
11 Dallas—Fort Worth	1,412.7	1,463.0	1,472.2	21.9	24.3	24.4	81.7	82.7	83.5	312.5	314.5	315.1
12 El Paso	156.1	157.5	157.4	(1)	(1)	(1)	8.5	9.3	9.5	31.4	31.4	30.2
13 Galveston—Texas City	68.0	70.2	70.4	(1)	(1)	(1)	5.5	5.4	5.1	11.9	12.4	12.5
14 Houston	1,384.5	1,413.9	1,418.0	69.6	74.2	75.1	142.0	141.7	139.4	230.3	239.4	239.5
15 Lubbock	90.0	88.4	88.6	(1)	(1)	(1)	4.7	4.1	3.9	13.5	12.4	12.3
16 San Antonio	382.6	388.9	390.9	2.0	2.3	2.3	26.2	27.2	27.3	47.8	48.3	48.7
17 Waco	70.0	70.4	70.9	(1)	(1)	(1)	3.5	3.6	3.5	17.0	16.2	16.4
18 Wichita Falls	51.0	52.0	52.1	2.8	3.1	3.0	2.8	2.6	2.5	9.5	9.6	9.6
19 UTAH	557.8	566.2	568.0	18.3	18.0	18.0	39.4	37.8	37.6	88.6	92.0	91.7
20 Salt Lake City—Ogden	329.9	397.7	399.9	7.5	7.1	7.2	26.8	24.5	24.3	60.1	62.2	62.6
21 VERMONT	202.4	201.6	204.2	.8	.7	.7	11.8	11.4	12.2	51.8	50.3	50.1
22 Burlington ¹⁶	56.8	57.0	58.4	-	-	-	-	-	-	14.4	14.9	15.0
23 Springfield ¹⁶	14.5	14.8	14.8	-	-	-	-	-	-	6.1	6.3	6.3
24 VIRGINIA	2,124.4	2,136.2	2,141.0	23.5	24.0	23.8	139.8	127.0	124.8	420.7	410.6	413.9
25 Bristol	28.7	28.4	28.7	(1)	(1)	(1)	1.4	1.3	1.3	9.9	9.3	9.4
26 Lynchburg	74.3	72.4	72.5	(1)	(1)	(1)	3.8	3.9	3.9	30.3	29.0	29.0
27 Newport News—Hampton	149.2	154.9	154.9	(1)	(1)	(1)	7.9	7.3	7.2	33.8	35.3	35.8
28 Norfolk—Virginia Beach—Portsmouth	287.5	284.9	285.1	(1)	(1)	(1)	18.5	16.1	15.9	30.8	29.7	29.7
29 Northern Virginia ¹⁷	428.0	432.3	432.4	.4	.4	.4	30.4	27.9	27.4	16.6	17.1	17.1
30 Petersburg—Colonial Hghts.—Hopewell	46.6	47.6	47.5	(1)	(1)	(1)	2.6	3.1	2.9	11.8	11.6	11.8
31 Richmond	327.4	326.6	326.8	.4	.4	.4	19.4	17.1	16.5	55.7	55.8	56.1
32 Roanoke	105.1	105.4	105.8	.1	.1	.1	6.5	6.7	6.5	20.7	20.9	21.0
33 WASHINGTON	1,614.1	1,620.4	1,623.2	2.8	2.7	2.7	107.0	85.9	82.5	313.9	304.7	302.5
34 Seattle—Everett	779.3	789.5	795.0	(1)	(1)	(1)	50.0	46.0	45.1	173.2	177.3	175.8
35 Spokane	131.7	129.1	128.3	(1)	(1)	(1)	8.4	8.3	7.8	18.1	17.4	17.1
36 Tacoma	143.8	141.9	140.7	(1)	(1)	(1)	9.4	7.3	7.3	22.5	21.9	22.0
37 WEST VIRGINIA	659.1	630.9	634.4	65.4	59.4	58.9	46.9	41.0	41.0	126.8	116.3	117.0
38 Charleston	118.6	115.6	115.5	7.0	6.3	6.3	8.8	8.3	8.2	19.3	17.1	17.2
39 Huntington—Ashland	110.5	106.6	106.8	1.1	1.3	1.2	9.0	8.6	8.1	29.0	25.9	26.1
40 Parkersburg—Marietta	59.7	57.4	56.7	.5	.5	.5	4.7	3.6	3.6	17.1	16.3	16.1
41 Wheeling	68.3	64.9	64.7	7.0	6.0	5.5	4.1	3.8	3.6	13.6	12.1	12.2
42 WISCONSIN	2,020.7	2,004.3	2,001.3	3.1	2.5	2.4	91.5	77.9	78.1	604.2	565.6	552.6
43 Appleton—Oshkosh	135.4	130.0	131.7	(1)	(1)	(1)	7.3	5.9	6.1	51.9	47.3	46.9
44 Eau Claire	49.6	49.8	50.2	(1)	(1)	(1)	2.3	1.9	2.0	9.3	8.9	8.8
45 Green Bay	80.3	81.0	80.9	(1)	(1)	(1)	4.1	3.7	3.5	22.1	22.3	21.6
46 Janesville—Beloit	55.1	50.8	50.9	(1)	(1)	(1)	2.1	2.1	2.2	22.4	18.0	18.1
47 Kenosha	48.2	47.0	46.2	(1)	(1)	(1)	3.0	1.9	1.8	19.7	18.9	18.6
48 La Crosse	45.0	44.7	45.0	(1)	(1)	(1)	2.3	1.7	1.7	11.0	10.7	10.5
49 Madison	174.3	178.7	179.6	(1)	(1)	(1)	9.0	8.5	8.8	20.6	20.7	20.2
50 Milwaukee	695.7	684.6	688.1	(1)	(1)	(1)	25.7	22.8	23.3	223.2	202.8	201.6
51 Racine	72.3	69.2	69.4	(1)	(1)	(1)	2.5	2.3	2.4	31.8	28.2	28.4
52 WYOMING	213.2	224.3	223.0	34.0	38.6	38.5	24.6	28.7	27.8	11.3	11.7	12.5
53 Casper	41.5	45.4	46.3	8.3	10.3	10.5	4.4	6.4	6.1	2.0	2.2	2.3
54 Cheyenne	29.0	28.2	27.9	(1)	(1)	(1)	2.4	2.8	2.8	1.8	1.8	1.8
55 VIRGIN ISLANDS	35.3	35.0	35.5	(2)	(2)	(2)	2.6	3.0	3.1	3.2	3.2	3.2

¹ Combined with services.

² Combined with construction.

³ Maryland portion revised; not strictly comparable with previously published data.

⁴ Revised to 1980 benchmark; not strictly comparable with previously published data.

⁵ Area included in Chicago-Gary Standard Consolidated Statistical Area.

⁶ Revised to 1979 benchmark; not strictly comparable with previously published data.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area; Burlington, Camden, and Gloucester Counties, New Jersey.

⁸ Subarea of New York-Northeastern New Jersey.

⁹ Subarea of Rochester Standard Metropolitan Statistical Area.

¹⁰ Area included in New York and Nassau-Suffolk combined SMSA's.

¹¹ Subarea of New York Standard Metropolitan Statistical Area.

**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			
OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	
87.5	85.7	85.4	392.9	379.0	375.5	77.4	76.8	76.9	295.5	301.8	304.7	318.7	315.1	326.4	1
7.2	7.2	7.2	32.9	32.0	31.9	10.2	9.8	9.8	28.8	29.0	28.8	34.5	35.3	35.3	2
8.1	7.9	7.9	41.0	40.5	40.6	8.1	8.0	8.0	30.4	30.0	30.0	42.0	42.9	46.3	3
27.7	27.2	27.0	96.1	95.8	95.9	19.7	19.6	19.7	72.0	73.1	72.6	67.2	65.3	65.5	4
22.1	20.8	(*)	82.6	78.6	(*)	24.3	24.4	(*)	73.3	74.1	(*)	63.6	63.5	(*)	5
355.7	363.4	361.7	1,389.1	1,401.8	1,405.4	319.6	336.8	339.6	981.6	1,006.8	1,009.2	983.0	1,040.5	1,064.1	6
7.1	7.2	7.1	22.4	21.5	21.6	3.9	3.7	3.6	14.8	14.9	15.2	13.5	13.5	13.7	7
7.2	7.1	7.1	49.9	49.3	49.8	13.6	13.8	13.9	40.8	41.5	41.5	80.0	83.1	84.5	8
10.9	11.3	11.0	31.4	29.7	30.1	5.2	5.2	5.2	24.8	25.0	25.5	20.3	21.3	21.2	9
6.9	7.1	6.9	27.6	28.3	28.2	5.5	5.2	5.1	19.2	20.8	20.9	25.8	25.8	25.8	10
92.9	95.4	95.8	378.5	395.5	398.5	103.1	109.3	109.6	245.5	262.1	264.3	176.6	179.2	181.0	11
10.9	10.8	10.9	39.4	39.3	39.3	7.4	7.4	7.7	25.5	26.6	26.9	33.0	32.7	32.9	12
6.8	6.8	7.0	12.6	13.2	13.1	4.4	4.5	4.6	11.2	12.2	11.9	15.6	15.7	16.2	13
99.1	102.0	101.4	338.2	335.3	336.1	83.0	86.4	86.9	263.8	275.0	275.4	158.5	159.9	164.2	14
4.9	4.9	4.9	25.9	25.4	25.8	4.8	5.1	5.0	17.0	17.3	17.4	19.2	19.2	19.3	15
17.7	18.3	18.4	95.0	96.3	96.1	24.9	26.0	26.0	74.0	76.3	76.7	95.0	94.2	95.4	16
3.2	3.1	3.1	16.3	17.1	17.2	4.2	4.4	4.5	14.7	14.8	14.9	11.1	11.2	11.3	17
2.4	2.4	2.5	12.5	12.8	12.9	2.3	2.3	2.4	7.6	7.8	7.8	11.1	11.4	11.4	18
34.2	34.6	34.5	129.5	130.6	130.9	25.9	26.9	26.7	99.0	103.6	103.1	123.0	122.7	125.4	19
27.1	27.4	27.5	95.5	97.0	97.2	20.8	21.5	21.3	67.9	71.0	71.2	87.1	87.0	88.8	20
9.2	9.0	8.9	41.1	41.7	41.7	7.8	8.1	8.1	43.1	44.4	44.5	36.8	36.0	38.0	21
2.5	2.4	2.4	12.2	12.5	12.7	-	-	-	11.5	11.9	11.9	-	-	-	22
.7	.7	.7	2.2	2.1	2.2	-	-	-	2.5	2.7	2.7	-	-	-	23
114.8	114.7	115.7	444.0	451.7	453.2	105.0	106.0	105.9	378.3	392.2	392.0	498.3	510.0	511.7	24
1.1	1.1	1.2	6.8	6.6	6.8	1.0	1.0	1.0	3.5	3.8	3.7	5.0	5.3	5.3	25
2.7	2.8	2.7	12.6	11.7	11.7	3.6	3.7	3.7	10.9	11.0	11.1	10.4	10.3	10.4	26
5.1	5.1	5.2	28.2	28.9	28.9	5.1	5.2	5.0	27.6	29.4	29.5	41.5	43.3	43.3	27
18.9	19.0	19.0	69.7	68.8	69.2	14.7	14.6	14.5	53.3	55.9	55.7	81.6	80.8	81.1	28
29.1	29.1	29.3	98.7	98.5	98.5	27.0	27.3	27.0	108.8	113.2	113.3	117.0	118.8	119.4	29
1.5	1.6	1.5	8.2	8.0	7.9	1.3	1.3	1.3	5.8	6.4	6.3	15.4	15.6	15.8	30
19.7	19.8	19.8	74.0	72.7	73.0	26.7	26.8	26.8	57.5	59.6	59.6	74.0	74.4	74.6	31
10.2	9.8	9.8	26.3	25.7	25.7	6.0	6.2	6.2	19.7	19.6	20.0	15.6	16.4	16.5	32
89.2	89.9	89.4	393.1	406.5	403.4	91.8	96.5	96.4	296.0	318.5	314.0	320.3	315.7	332.3	33
51.8	54.0	53.9	187.2	188.3	189.6	54.3	55.9	56.1	145.4	153.3	154.5	117.4	114.7	120.0	34
8.0	8.0	8.0	37.3	36.7	36.4	8.1	8.1	8.1	29.2	28.7	28.7	22.6	21.9	22.2	35
6.6	6.6	6.7	34.1	33.5	33.2	7.2	7.2	7.2	30.6	32.9	31.1	33.4	32.5	33.2	36
44.4	43.3	43.2	135.9	131.2	131.5	21.8	21.7	21.6	96.3	97.8	98.8	121.6	120.1	122.4	37
9.9	9.9	10.0	28.2	27.5	27.5	5.0	5.1	5.1	20.1	20.5	20.6	20.3	20.8	20.7	38
10.1	9.8	9.8	24.2	23.8	24.0	3.9	3.8	3.9	15.6	16.0	15.9	17.6	17.4	17.7	39
2.8	2.6	2.6	12.9	12.5	12.5	2.0	2.2	2.2	9.2	9.4	9.4	10.4	9.9	9.9	40
3.7	3.7	3.6	16.1	15.8	15.8	2.6	2.7	2.7	13.1	13.3	13.4	8.0	7.6	7.9	41
96.0	91.9	93.3	461.0	478.4	481.6	92.7	96.0	96.2	360.9	385.2	384.0	311.3	306.6	313.1	42
4.8	4.7	5.0	28.6	28.7	29.4	5.2	5.5	5.5	20.6	21.5	21.5	17.0	16.4	17.4	43
2.7	2.7	2.7	13.2	14.1	14.0	1.6	1.6	1.6	9.5	10.1	10.1	10.9	10.6	11.0	44
6.1	6.4	6.3	20.9	20.7	21.0	2.4	2.5	2.4	14.4	14.9	15.1	10.3	10.6	11.0	45
2.3	2.0	2.0	11.9	12.0	12.0	1.4	1.4	1.5	8.5	8.5	8.4	6.5	6.8	6.0	46
1.4	1.5	1.4	8.6	8.7	8.6	1.0	1.1	1.1	7.7	8.2	8.1	6.9	6.7	6.7	47
2.5	2.4	2.3	12.1	12.5	12.8	1.1	1.1	1.1	9.5	10.3	10.4	6.5	6.0	6.1	48
6.4	6.6	6.7	36.3	36.9	37.6	12.4	13.4	13.3	31.8	33.9	34.2	57.7	58.8	58.9	49
35.9	34.2	34.7	153.0	156.2	157.4	38.7	39.2	39.4	141.4	151.9	153.5	77.7	77.4	78.4	50
2.1	2.1	2.0	13.6	13.6	13.6	2.3	2.4	2.4	11.3	11.9	11.8	8.8	8.8	8.9	51
17.0	17.9	18.0	46.6	43.8	43.5	7.4	7.4	7.4	29.6	32.8	31.1	42.7	43.4	44.2	52
2.9	3.4	3.3	11.5	10.9	11.3	1.6	1.6	1.7	5.3	5.4	5.7	5.5	5.2	5.4	53
4.3	4.4	3.9	7.6	6.7	6.7	1.5	1.4	1.4	4.2	3.8	3.8	7.2	7.3	7.5	54
2.2	2.3	2.3	7.0	6.7	6.8	1.4	1.4	1.4	5.7	5.4	5.4	13.2	13.0	13.3	55

¹² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

¹³ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

¹⁴ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

¹⁵ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹⁶ Total includes data for industry divisions not shown separately.

¹⁷ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p = preliminary.
* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
-	TOTAL PRIVATE	\$225.27	\$225.70	\$240.04	\$242.16	\$243.92	\$6.31	\$6.34	\$6.80	\$6.86	\$6.91
-	MINING	375.38	380.63	405.42	407.96	416.11	8.59	8.73	9.32	9.40	9.61
10	METAL MINING	395.50	403.91	423.71	417.09	-	9.67	9.78	10.54	10.64	-
101	Iron ores	413.56	437.84	430.07	405.47	-	9.80	10.23	11.53	11.17	-
102	Copper ores	427.43	429.66	424.93	431.68	-	10.01	10.23	10.98	11.42	-
11, 12	COAL MINING	427.87	431.17	444.44	447.45	-	10.31	10.44	10.92	10.94	-
12	BITUMINOUS COAL AND LIGNITE MINING	429.11	432.41	445.67	448.67	-	10.34	10.47	10.95	10.97	-
13	OIL AND GAS EXTRACTION	352.11	361.38	395.02	400.45	-	7.79	7.95	8.72	8.84	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	358.50	375.84	406.64	402.11	-	8.83	8.97	9.87	9.76	-
138	Oil and gas field services	349.68	355.85	390.88	400.22	-	7.44	7.62	8.37	8.57	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	324.93	319.50	342.88	342.22	-	7.11	7.10	7.74	7.76	-
142	Crushed and broken stone	317.09	311.20	324.72	324.72	-	6.79	6.78	7.33	7.34	-
-	CONSTRUCTION	358.15	348.43	386.20	387.07	376.10	9.50	9.52	10.19	10.24	10.22
15	GENERAL BUILDING CONTRACTORS	321.57	314.87	345.75	348.34	-	8.81	8.82	9.37	9.44	-
152	Residential building construction	301.32	295.68	326.14	325.26	-	8.37	8.40	8.96	9.01	-
153	Operative builders	282.15	283.19	306.16	310.25	-	7.73	7.78	8.23	8.34	-
154	Nonresidential building construction	343.91	337.38	367.64	371.63	-	9.32	9.32	9.83	9.91	-
16	HEAVY CONSTRUCTION CONTRACTORS	369.93	353.12	398.65	394.28	-	8.85	8.85	9.56	9.57	-
161	Highway and street construction	370.65	350.55	389.91	386.13	-	8.66	8.55	9.11	9.15	-
162	Heavy construction, except highway	368.74	354.60	402.78	398.05	-	8.95	9.00	9.80	9.78	-
17	SPECIAL TRADE CONTRACTORS	372.95	363.78	401.47	404.04	-	10.19	10.19	10.88	10.92	-
171	Plumbing, heating, air conditioning	392.06	380.18	418.00	422.49	-	10.21	10.22	11.00	11.06	-
172	Painting, paper hanging, decorating	324.65	316.63	350.30	350.88	-	9.41	9.34	9.98	9.94	-
173	Electrical work	428.60	417.75	464.74	462.00	-	11.22	11.26	12.23	12.19	-
174	Masonry, stonework, and plastering	346.26	335.65	378.79	384.13	-	9.95	9.96	10.67	10.76	-
175	Carpentering and flooring	320.73	318.09	343.13	341.85	-	9.19	9.22	9.86	9.88	-
176	Roofing and sheet metal work	293.49	287.79	333.55	338.27	-	8.84	8.91	9.53	9.61	-
-	MANUFACTURING	274.16	276.86	295.71	298.10	302.80	6.82	6.87	7.43	7.49	7.57
24, 25, 32-39	DURABLE GOODS	295.80	297.43	318.79	322.80	327.65	7.25	7.29	7.93	8.01	8.09
20-23, 26-31	NONDURABLE GOODS	241.92	245.92	261.58	262.75	265.78	6.14	6.21	6.69	6.72	6.78
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	247.95	241.34	267.24	263.25	263.35	6.23	6.22	6.80	6.75	6.77
241	Logging camps and logging contractors	325.70	319.73	361.89	341.89	-	8.33	8.37	9.07	8.95	-
242	Sawmills and planing mills	264.21	250.49	277.60	271.35	-	6.46	6.39	7.01	6.94	-
2421	Sawmills and planing mills, general	279.07	262.75	290.94	283.08	-	6.79	6.72	7.31	7.24	-
2426	Hardwood dimension and flooring	176.88	175.08	185.28	187.50	-	4.40	4.41	4.80	4.82	-
243	Millwork, plywood, and structural members	240.77	236.29	258.72	259.50	-	6.08	6.09	6.60	6.62	-
2431	Millwork	233.04	232.46	257.54	258.07	-	5.87	5.93	6.57	6.55	-
2434	Wood kitchen cabinets	214.19	212.62	220.50	220.07	-	5.52	5.61	5.88	5.90	-
2435	Hardwood veneer and plywood	195.94	192.72	204.49	206.44	-	4.85	4.83	5.19	5.20	-
2436	Softwood veneer and plywood	310.78	294.91	326.42	328.43	-	7.75	7.68	8.12	8.17	-
244	Wooden containers	175.64	176.15	189.76	191.52	-	4.61	4.66	5.02	5.08	-
245	Wood buildings and mobile homes	218.11	215.05	239.90	241.04	-	5.68	5.75	6.28	6.31	-
2451	Mobile homes	219.22	214.50	238.13	237.38	-	5.65	5.72	6.25	6.28	-
249	Miscellaneous wood products	203.81	205.02	221.35	223.26	-	5.07	5.10	5.52	5.54	-
25	FURNITURE AND FIXTURES	203.97	204.75	213.71	214.66	216.76	5.19	5.21	5.58	5.59	5.63
251	Household furniture	190.12	191.39	196.79	198.88	-	4.85	4.87	5.22	5.22	-
2511	Wood household furniture	179.50	181.55	183.64	186.63	-	4.51	4.55	4.82	4.81	-
2512	Upholstered household furniture	199.43	200.47	204.23	206.27	-	5.18	5.18	5.58	5.59	-
2514	Metal household furniture	199.41	199.36	211.10	215.83	-	5.10	5.06	5.57	5.65	-
2515	Mattresses and bedsprings	211.46	207.81	221.54	217.13	-	5.45	5.44	5.83	5.79	-
252	Office furniture	223.04	221.60	239.20	237.98	-	5.59	5.61	6.01	6.04	-
253	Public building and related furniture	207.97	210.92	233.23	232.46	-	5.43	5.58	5.86	5.90	-
254	Partitions and fixtures	257.04	255.42	266.85	266.17	-	6.41	6.45	6.79	6.86	-
259	Miscellaneous furniture and fixtures	225.23	229.32	239.07	244.22	-	5.79	5.88	6.13	6.23	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry—Continued**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
-	TOTAL PRIVATE	35.7	35.6	35.3	35.3	35.3	-	-	-	-	-
-	MINING	43.7	43.6	43.5	43.4	43.3	-	-	-	-	-
10	METAL MINING	40.9	41.3	40.2	39.2	-	-	-	-	-	
101	Iron ores	42.2	42.8	37.3	36.3	-	-	-	-	-	
102	Copper ores	42.7	42.0	38.7	37.8	-	-	-	-	-	
11, 12	COAL MINING	41.5	41.3	40.7	40.9	-	-	-	-	-	
12	BITUMINOUS COAL AND LIGNITE MINING	41.5	41.3	40.7	40.9	-	-	-	-	-	
13	OIL AND GAS EXTRACTION	45.2	45.4	45.3	45.3	-	-	-	-	-	
131, 2	Crude petroleum, natural gas, and natural gas liquids	40.6	41.9	41.2	41.2	-	-	-	-	-	
138	Oil and gas field services	47.0	46.7	46.7	46.7	-	-	-	-	-	
14	NONMETALLIC MINERALS, EXCEPT FUELS	45.7	45.0	44.3	44.1	-	-	-	-	-	
142	Crushed and broken stone	46.7	45.9	44.3	44.3	-	-	-	-	-	
-	CONSTRUCTION	37.7	36.6	37.9	37.8	36.8	-	-	-	-	
15	GENERAL BUILDING CONTRACTORS	36.5	35.7	36.9	36.9	-	-	-	-	-	
152	Residential building construction	36.0	35.2	36.4	36.1	-	-	-	-	-	
153	Operative builders	36.5	36.4	37.2	37.2	-	-	-	-	-	
154	Nonresidential building construction	36.9	36.2	37.4	37.5	-	-	-	-	-	
16	HEAVY CONSTRUCTION CONTRACTORS	41.8	39.9	41.7	41.2	-	-	-	-	-	
161	Highway and street construction	42.8	41.0	42.8	42.2	-	-	-	-	-	
162	Heavy construction, except highway	41.2	35.4	41.1	40.7	-	-	-	-	-	
17	SPECIAL TRADE CONTRACTORS	36.6	35.7	36.9	37.0	-	-	-	-	-	
171	Plumbing, heating, air conditioning	38.4	37.2	38.0	38.2	-	-	-	-	-	
172	Painting, paper hanging, decorating	34.5	33.9	35.1	35.3	-	-	-	-	-	
173	Electrical work	38.2	37.1	38.0	37.9	-	-	-	-	-	
174	Masonry, stonework, and plastering	34.8	33.7	35.5	35.7	-	-	-	-	-	
175	Carpentering and flooring	34.9	34.5	34.8	34.6	-	-	-	-	-	
176	Roofing and sheet metal work	33.2	32.3	35.0	35.2	-	-	-	-	-	
-	MANUFACTURING	40.2	40.3	39.8	39.8	40.0	3.4	3.4	3.0	2.9	
24, 25, 32-39	DURABLE GOODS	40.8	40.8	40.2	40.3	40.5	3.5	3.4	2.9	2.9	
20-23, 26-31	NONDURABLE GOODS	39.4	39.6	39.1	39.1	39.2	3.2	3.3	3.0	2.9	
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	39.8	38.8	39.2	39.0	38.9	3.7	3.2	3.1	3.1	
241	Logging camps and logging contractors	39.1	38.2	39.9	38.2	-	4.8	3.7	4.5	4.3	
242	Sawmills and planing mills	40.9	39.2	39.6	39.1	-	4.5	3.8	3.7	3.5	
2421	Sawmills and planing mills, general	41.1	35.1	39.8	39.1	-	4.8	3.9	4.0	3.7	
2426	Hardwood dimension and flooring	40.2	39.7	38.6	38.9	-	3.4	3.3	2.4	2.6	
243	Millwork, plywood, and structural members	39.6	38.8	39.2	39.2	-	3.0	2.6	2.5	2.6	
2431	Millwork	39.7	39.2	39.2	39.4	-	2.0	1.7	1.8	2.0	
2434	Wood kitchen cabinets	38.8	37.9	37.5	37.3	-	2.0	1.9	1.3	1.6	
2435	Hardwood veneer and plywood	40.4	39.9	39.4	39.7	-	4.0	3.9	3.6	3.3	
2436	Softwood veneer and plywood	40.1	38.4	40.2	40.2	-	4.8	4.0	3.7	3.8	
244	Wooden containers	38.1	37.8	37.8	37.7	-	2.7	2.5	2.1	1.9	
245	Wood buildings and mobile homes	38.4	37.4	38.2	38.2	-	2.4	2.0	2.2	2.2	
2451	Mobile homes	38.8	37.5	38.1	37.8	-	2.1	1.7	2.0	2.0	
249	Miscellaneous wood products	40.2	40.2	40.1	40.3	-	3.6	3.6	2.9	3.0	
25	FURNITURE AND FIXTURES	39.3	39.3	38.3	38.4	38.5	2.5	2.4	1.8	1.8	
251	Household furniture	39.2	35.3	37.7	38.1	-	2.4	2.2	1.6	1.8	
2511	Wood household furniture	39.8	39.9	38.1	38.8	-	2.8	2.7	1.6	1.9	
2512	Upholstered household furniture	38.5	36.7	36.6	36.9	-	1.8	1.7	1.0	1.1	
2514	Metal household furniture	39.1	39.4	37.9	38.2	-	1.6	1.5	2.7	2.6	
2515	Mattresses and bedsprings	38.8	38.2	38.0	37.5	-	3.1	2.3	2.5	1.7	
252	Office furniture	39.9	39.5	39.8	39.4	-	2.4	2.2	2.1	1.9	
253	Public building and related furniture	38.3	37.8	39.8	39.4	-	2.5	2.5	2.3	2.1	
254	Partitions and fixtures	40.1	35.6	39.3	38.8	-	3.4	3.2	2.7	2.2	
259	Miscellaneous furniture and fixtures	38.9	39.0	39.0	39.2	-	2.5	2.2	1.1	1.1	

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				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
32	STONE, CLAY, AND GLASS PRODUCTS	\$292.32	\$295.24	\$316.06	\$319.66	\$324.16	\$7.01	\$7.08	\$7.69	\$7.74	\$7.83
321	Flat glass	361.47	367.20	424.87	446.03	-	8.71	9.00	9.95	10.23	-
322	Glass and glassware, pressed or blown	290.80	295.87	324.00	330.86	-	7.27	7.36	8.10	8.21	-
3221	Glass containers	304.27	305.96	355.06	353.38	-	7.55	7.63	8.66	8.64	-
3229	Pressed and blown glass, nec	273.53	282.50	281.78	300.99	-	6.89	7.01	7.30	7.62	-
323	Products of purchased glass	264.31	271.88	259.20	266.12	-	6.51	6.52	6.48	6.62	-
324	Cement, hydraulic	412.85	430.84	452.94	460.28	-	9.76	10.09	10.81	10.83	-
325	Structural clay products	236.24	236.49	250.45	248.18	-	5.72	5.74	6.23	6.22	-
326	Pottery and related products	225.94	230.58	240.56	251.30	-	5.72	5.75	6.20	6.33	-
327	Concrete, gypsum, and plaster products	309.23	304.87	333.68	332.48	-	7.06	7.09	7.76	7.75	-
3271	Concrete block and brick	284.16	283.18	305.80	314.75	-	6.40	6.48	6.95	7.01	-
3272	Concrete products, nec	266.28	262.09	291.45	291.98	-	6.31	6.27	6.89	6.87	-
3273	Ready-mixed concrete	342.55	334.62	367.22	362.09	-	7.75	7.80	8.58	8.56	-
329	Misc. nonmetallic mineral products	292.18	296.81	304.21	308.10	-	6.99	7.05	7.53	7.57	-
3291	Abrasive products	271.09	275.81	281.39	290.66	-	6.71	6.81	7.29	7.34	-
3292	Asbestos products	300.24	298.03	310.43	308.10	-	7.20	7.13	7.59	7.57	-
33	PRIMARY METAL INDUSTRIES	372.60	376.88	400.79	405.62	418.82	9.11	9.26	9.97	10.09	10.24
331	Blast furnace and basic steel products	423.20	433.82	465.63	468.06	-	10.58	10.90	11.67	11.79	-
3312	Blast furnaces and steel mills	434.72	448.27	483.17	485.50	-	10.95	11.32	12.14	12.26	-
3317	Steel pipe and tubes	353.56	349.00	376.66	369.03	-	8.54	8.66	9.44	9.39	-
332	Iron and steel foundries	318.84	312.73	327.53	332.24	-	7.72	7.76	8.25	8.39	-
3321	Gray iron foundries	312.73	305.36	327.92	334.32	-	7.76	7.77	8.26	8.40	-
3322	Malleable iron foundries	342.19	341.09	344.20	353.57	-	8.47	8.57	9.13	9.28	-
3325	Steel foundries, nec	334.85	327.33	324.37	328.20	-	7.68	7.72	8.15	8.33	-
333	Primary nonferrous metals	414.54	411.73	445.26	467.57	-	9.87	9.85	10.94	10.95	-
3334	Primary aluminum	432.43	419.99	491.63	508.67	-	10.37	10.37	11.65	11.64	-
335	Nonferrous rolling and drawing	346.38	355.14	375.91	378.72	-	8.15	8.24	9.08	9.17	-
3351	Copper rolling and drawing	322.59	324.86	313.34	325.44	-	7.45	7.52	7.68	7.88	-
3353	Aluminum sheet, plate, and foil	399.51	414.07	483.51	473.59	-	9.65	9.72	11.35	11.33	-
3357	Nonferrous wire drawing and insulating	321.64	332.13	346.08	353.94	-	7.64	7.76	8.40	8.57	-
336	Nonferrous foundries	278.64	277.26	296.06	302.40	-	6.88	6.88	7.42	7.42	-
3361	Aluminum foundries	287.45	286.42	304.31	315.12	-	7.08	7.02	7.57	7.80	-
34	FABRICATED METAL PRODUCTS	285.49	287.41	308.61	309.46	315.43	6.98	7.01	7.62	7.66	7.75
341	Metal cans and shipping containers	358.11	410.77	457.18	443.85	-	9.11	9.21	10.32	10.18	-
3411	Metal cans	412.16	424.65	477.12	462.27	-	9.41	9.50	10.65	10.53	-
342	Cutlery, hand tools, and hardware	271.35	268.53	281.91	285.71	-	6.75	6.73	7.21	7.27	-
3423, 5	Hand and edge tools, and hand saws and blades	268.14	271.01	274.25	271.29	-	6.54	6.61	7.05	7.01	-
3429	Hardware, nec	277.90	270.27	293.67	300.65	-	7.00	6.93	7.53	7.65	-
343	Plumbing and heating, except electric	252.75	248.62	266.90	269.99	-	6.21	6.20	6.74	6.87	-
3432	Plumbing fittings and brass goods	246.22	240.20	256.36	261.62	-	6.02	5.99	6.49	6.64	-
3433	Heating equipment, except electric	243.60	239.60	257.67	259.23	-	6.09	6.02	6.59	6.63	-
344	Fabricated structural metal products	276.62	281.95	301.99	299.83	-	6.78	6.86	7.42	7.44	-
3441	Fabricated structural metal	296.74	301.81	324.66	319.30	-	7.22	7.29	7.73	7.75	-
3442	Metal doors, sash, and trim	216.40	221.20	237.60	239.20	-	5.41	5.53	5.94	5.98	-
3443	Fabricated plate work (boiler shops)	312.57	322.06	337.83	339.49	-	7.46	7.56	8.18	8.24	-
3444	Sheet metal work	271.32	269.68	298.90	294.42	-	6.80	6.81	7.51	7.53	-
3446	Architectural metal work	261.14	262.92	285.53	280.80	-	6.48	6.46	7.05	7.02	-
345	Screw machine products, bolts, etc.	281.54	283.05	284.71	288.46	-	6.64	6.66	7.10	7.14	-
3451	Screw machine products	260.57	259.76	258.33	259.12	-	6.16	6.17	6.59	6.56	-
3452	Bolts, nuts, rivets, and washers	303.31	305.45	311.25	318.42	-	7.12	7.12	7.61	7.71	-
346	Metal forgings and stampings	320.76	315.61	350.61	362.23	-	7.92	7.91	8.70	8.90	-
3462	Iron and steel forgings	346.98	336.18	367.54	372.66	-	8.74	8.62	9.40	9.58	-
3465	Automotive stampings	371.47	362.62	437.78	456.35	-	9.31	9.37	10.73	10.97	-
3469	Metal stampings, nec	255.64	257.71	272.30	279.76	-	6.16	6.24	6.74	6.84	-
347	Metal services, nec	230.61	231.01	250.30	249.87	-	5.68	5.69	6.09	6.05	-
3471	Plating and polishing	221.35	222.31	237.41	239.19	-	5.52	5.53	5.98	5.95	-
3479	Metal coating and allied services	250.20	251.26	277.20	272.50	-	6.00	6.04	6.30	6.25	-
348	Ordnance and accessories, nec	284.41	290.63	312.07	314.11	-	6.92	7.02	7.63	7.68	-
3483	Ammunition, exc. for small arms, nec	254.08	267.15	279.10	276.71	-	6.40	6.58	6.96	6.97	-
349	Misc. fabricated metal products	268.11	275.47	287.36	288.88	-	6.62	6.67	7.22	7.24	-
3494	Valves and pipe fittings	285.63	297.36	306.86	308.43	-	7.07	7.08	7.71	7.73	-
3496	Misc. fabricated wire products	236.64	242.43	254.64	255.33	-	5.80	5.87	6.35	6.32	-
35	MACHINERY, EXCEPT ELECTRICAL	308.76	313.50	339.48	339.85	346.04	7.44	7.50	8.28	8.35	8.44
351	Engines and turbines	363.20	358.09	393.39	401.02	-	9.08	9.02	10.01	10.23	-
3511	Turbines and turbine generator sets	327.13	336.98	383.76	398.53	-	8.24	8.30	9.36	9.58	-
3519	Internal combustion engines, nec	373.33	364.98	395.90	401.66	-	9.31	9.24	10.23	10.46	-
352	Farm and garden machinery	312.16	334.82	419.15	406.21	-	7.54	8.01	10.10	10.13	-
3523	Farm machinery and equipment	320.61	348.13	436.80	423.63	-	7.67	8.23	10.40	10.46	-
353	Construction and related machinery	325.89	324.66	361.01	363.37	-	7.91	7.88	8.87	8.95	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
32	STONE, CLAY, AND GLASS PRODUCTS	41.7	41.7	41.1	41.3	41.4	4.6	4.4	4.1	4.1	-
321	Flat glass	41.5	40.8	42.7	43.6	-	3.8	3.8	4.6	4.8	-
322	Glass and glassware, pressed or blown	40.0	40.2	40.0	40.3	-	4.0	4.0	3.9	3.9	-
3221	Glass containers	40.3	40.1	41.0	40.9	-	4.4	4.3	4.5	4.4	-
3229	Pressed and blown glass, nec	39.7	40.3	38.6	39.5	-	3.4	3.5	3.0	3.3	-
323	Products of purchased glass	40.6	41.7	40.0	40.2	-	2.7	3.2	3.0	3.2	-
324	Cement, hydraulic	42.3	42.7	41.9	42.5	-	4.0	4.2	3.3	3.3	-
325	Structural clay products	41.3	41.2	40.2	39.9	-	4.2	4.2	3.1	3.0	-
326	Pottery and related products	39.5	40.1	38.8	39.7	-	2.8	2.8	2.6	2.8	-
327	Concrete, gypsum, and plaster products	43.8	43.0	43.0	42.9	-	6.5	5.7	5.8	5.7	-
3271	Concrete block and brick	44.4	43.7	44.0	44.9	-	6.7	6.1	5.5	5.9	-
3272	Concrete products, nec	42.2	41.8	42.3	42.5	-	5.2	4.6	5.0	4.9	-
3273	Ready-mixed concrete	44.2	42.9	42.8	42.3	-	7.0	5.9	6.1	6.0	-
329	Misc. nonmetallic mineral products	41.8	42.1	40.4	40.7	-	4.3	4.2	3.0	3.1	-
3291	Abrasive products	40.4	40.5	38.6	39.6	-	3.6	3.5	1.8	2.3	-
3292	Asbestos products	41.7	41.8	40.9	40.7	-	3.5	3.2	2.5	2.9	-
33	PRIMARY METAL INDUSTRIES	40.9	40.7	40.2	40.2	40.9	3.6	3.6	2.6	2.7	-
331	Blast furnace and basic steel products	40.0	35.8	39.9	39.7	-	2.9	3.0	2.0	2.1	-
3312	Blast furnaces and steel mills	39.7	35.6	39.8	39.6	-	2.7	2.8	1.8	1.9	-
3317	Steel pipe and tubes	41.4	40.3	39.9	39.3	-	3.5	2.6	3.2	2.9	-
332	Iron and steel foundries	41.3	40.3	39.7	39.6	-	3.8	3.3	2.6	2.6	-
3321	Gray iron foundries	40.3	39.3	39.7	39.8	-	3.2	2.8	2.4	2.4	-
3322	Malleable iron foundries	40.4	39.8	37.7	38.1	-	3.7	3.8	1.7	2.0	-
3325	Steel foundries, nec	43.6	42.4	39.8	39.4	-	5.0	4.3	3.0	3.1	-
333	Primary nonferrous metals	42.0	41.8	40.7	42.7	-	3.9	4.0	3.4	3.4	-
3334	Primary aluminum	41.7	40.5	42.2	43.7	-	4.0	4.0	3.8	3.8	-
335	Nonferrous rolling and drawing	42.5	43.1	41.4	41.3	-	5.2	5.5	3.9	3.9	-
3351	Copper rolling and drawing	43.3	43.2	40.8	41.3	-	5.9	5.6	3.6	3.7	-
3353	Aluminum sheet, plate and foil	41.4	42.6	42.6	41.8	-	6.0	6.3	5.8	5.5	-
3357	Nonferrous wire drawing and insulating	42.1	42.8	41.2	41.3	-	4.5	5.0	3.6	4.0	-
336	Nonferrous foundries	40.5	40.3	39.9	40.0	-	3.2	3.0	2.3	2.4	-
3361	Aluminum foundries	40.6	40.8	40.2	40.4	-	3.4	3.3	2.1	2.5	-
34	FABRICATED METAL PRODUCTS	40.9	41.0	40.5	40.4	40.7	3.5	3.4	2.9	2.8	-
341	Metal cans and shipping containers	43.7	44.6	44.3	43.6	-	5.0	5.3	5.4	4.4	-
3411	Metal cans	43.8	44.7	44.8	43.9	-	5.0	5.2	5.4	4.3	-
342	Cutlery, hand tools, and hardware	40.2	39.9	39.1	39.3	-	2.9	2.8	1.8	2.1	-
3423, 5	Hand and edge tools, and hand saws and blades	41.0	41.0	38.9	38.7	-	3.3	3.2	1.5	1.5	-
3429	Hardware, nec	39.7	39.0	39.0	39.3	-	2.5	2.4	1.9	2.4	-
343	Plumbing and heating, except electric	40.7	40.1	39.6	39.3	-	3.3	3.0	2.1	2.0	-
3432	Plumbing fittings and brass goods	40.9	40.1	39.5	39.4	-	3.2	2.7	1.5	1.5	-
3433	Heating equipment, except electric	40.0	39.8	39.1	39.1	-	3.3	3.2	2.5	2.3	-
344	Fabricated structural metal products	40.8	41.1	40.7	40.3	-	3.4	3.4	3.0	2.8	-
3441	Fabricated structural metal	41.1	41.4	42.0	41.2	-	3.8	3.6	3.6	3.1	-
3442	Metal doors, sash, and trim	40.0	40.0	40.0	40.0	-	2.9	2.9	2.6	2.6	-
3443	Fabricated plate work (boiler shops)	41.9	42.6	41.3	41.2	-	3.5	3.8	3.0	3.1	-
3444	Sheet metal work	39.9	39.6	39.8	39.1	-	3.3	3.1	2.9	2.5	-
3446	Architectural metal work	40.3	40.7	40.5	40.0	-	2.9	3.2	3.1	2.8	-
345	Screw machine products, bolts, etc.	42.4	42.5	40.1	40.4	-	4.7	4.6	3.0	3.0	-
3451	Screw machine products	42.3	42.1	39.2	39.5	-	5.0	4.8	3.0	2.9	-
3452	Bolts, nuts, rivets, and washers	42.6	42.9	40.9	41.3	-	4.4	4.4	3.0	3.1	-
346	Metal forgings and stampings	40.5	39.9	40.3	40.7	-	3.6	3.1	3.3	3.3	-
3462	Iron and steel forgings	39.7	35.0	39.1	38.9	-	4.1	3.4	3.1	2.8	-
3465	Automotive stampings	39.9	38.7	40.8	41.6	-	3.1	1.8	4.0	4.0	-
3469	Metal stampings, nec	41.5	41.3	40.4	40.9	-	3.7	3.8	2.7	2.9	-
347	Metal services, nec	40.6	40.6	41.1	41.3	-	3.8	3.8	2.5	2.2	-
3471	Plating and polishing	40.1	40.2	35.7	40.2	-	3.3	3.3	3.3	3.1	-
3479	Metal coating and allied services	41.7	41.6	44.0	43.6	-	4.8	4.8	1.0	.5	-
348	Ordinance and accessories, nec	41.1	41.4	40.9	40.9	-	3.0	2.9	2.8	3.0	-
3483	Ammunition, exc. for small arms, nec	39.7	40.6	40.1	39.7	-	2.0	2.2	2.1	2.4	-
349	Misc. fabricated metal products	40.5	41.3	39.8	39.9	-	3.3	3.3	2.4	2.4	-
3494	Valves and pipe fittings	40.4	42.0	39.8	39.9	-	3.5	3.8	2.7	2.7	-
3496	Misc. fabricated wire products	40.8	41.3	40.1	40.4	-	3.2	3.3	2.5	2.5	-
35	MACHINERY, EXCEPT ELECTRICAL	41.5	41.8	41.0	40.7	41.0	3.9	4.1	3.3	3.2	-
351	Engines and turbines	40.0	39.7	39.3	39.2	-	3.2	2.9	2.0	2.2	-
3511	Turbines and turbine generator sets	39.7	40.6	41.0	41.6	-	3.6	3.7	3.9	4.5	-
3519	Internal combustion engines, nec	40.1	39.5	38.7	38.4	-	3.1	2.7	1.4	1.4	-
352	Farm and garden machinery	41.4	41.8	41.5	40.1	-	3.6	4.3	3.8	2.7	-
3523	Farm machinery and equipment	41.8	42.3	42.0	40.5	-	3.6	4.6	4.2	2.9	-
353	Construction and related machinery	41.2	41.2	40.7	40.6	-	3.5	3.7	2.9	2.8	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry—Continued

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	\$344.27	\$334.31	\$380.42	\$386.06	-	\$8.65	\$8.55	\$9.83	\$10.08	-
3532	Mining machinery	345.66	340.17	349.00	352.15	-	8.02	8.08	8.66	8.61	-
3533	Oil field machinery	316.94	329.72	371.32	373.25	-	7.44	7.65	8.27	8.35	-
3535	Conveyers and conveying equipment	294.17	293.82	320.39	318.80	-	7.14	7.08	7.95	7.97	-
3537	Industrial trucks and tractors	298.41	296.70	305.56	300.89	-	7.35	7.29	8.02	7.96	-
354	Metalworking machinery	335.58	340.17	347.35	349.03	-	7.75	7.82	8.29	8.35	-
3541	Machine tools, metal cutting types	359.39	364.05	364.20	370.22	-	8.04	8.09	8.45	8.55	-
3542	Machine tools, metal forming types	342.08	348.43	346.46	344.46	-	8.03	8.16	8.64	8.59	-
3544	Special dies, tools, jigs, and fixtures	359.65	363.15	375.66	379.99	-	8.23	8.31	8.86	8.92	-
3545	Machine tool accessories	302.02	308.29	308.21	310.75	-	7.14	7.22	7.61	7.73	-
3546	Power driven hand tools	248.05	257.00	263.91	261.94	-	6.05	6.09	6.39	6.42	-
355	Special industry machinery	292.82	303.12	315.70	316.57	-	7.09	7.20	7.70	7.74	-
3551	Food products machinery	305.70	312.64	330.00	334.89	-	7.42	7.57	8.25	8.31	-
3552	Textile machinery	240.85	239.50	250.51	252.32	-	5.86	5.87	6.14	6.23	-
3555	Printing trades machinery	306.72	326.78	330.17	330.23	-	7.20	7.41	7.88	7.77	-
356	General industrial machinery	314.42	320.38	333.34	332.09	-	7.54	7.61	8.15	8.22	-
3561	Pumps and pumping equipment	310.31	314.71	329.64	327.55	-	7.55	7.62	8.20	8.23	-
3562	Ball and roller bearings	325.80	331.19	334.53	337.82	-	7.63	7.72	8.10	8.28	-
3563	Air and gas compressors	328.67	349.36	378.01	367.16	-	7.77	7.94	8.71	8.68	-
3564	Blowers and fans	280.16	288.15	314.42	302.88	-	6.80	6.91	7.54	7.46	-
3566	Speed changers, drives, and gears	367.04	358.13	372.54	369.41	-	8.38	8.29	9.03	9.01	-
3568	Power transmission equipment, nec	303.78	307.10	312.04	321.60	-	7.32	7.40	7.86	8.04	-
357	Office and computing machines	255.85	264.55	289.95	286.47	-	6.18	6.21	6.97	6.97	-
3573	Electronic computing equipment	258.34	265.42	289.11	284.69	-	6.24	6.26	6.90	6.91	-
358	Refrigeration and service machinery	272.68	272.68	297.88	302.00	-	6.80	6.80	7.41	7.55	-
3585	Refrigeration and heating equipment	277.20	277.49	307.40	312.33	-	6.93	6.92	7.59	7.75	-
359	Misc. machinery, except electrical	302.41	302.99	328.02	330.88	-	7.34	7.39	8.02	8.09	-
3592	Carburetors, pistons, rings, valves	348.94	336.36	399.23	410.20	-	8.49	8.43	9.62	9.79	-
3599	Machinery, except electrical, nec	293.76	296.64	316.20	317.46	-	7.13	7.20	7.75	7.80	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	261.55	266.02	283.46	286.16	\$292.58	6.49	6.52	7.14	7.19	\$7.26
361	Electric distributing equipment	264.14	268.06	282.82	282.43	-	6.49	6.57	7.16	7.15	-
3612	Transformers	250.10	254.18	280.40	279.70	-	6.16	6.23	7.01	7.01	-
3613	Switchgear and switchboard apparatus	274.73	279.76	284.26	284.20	-	6.75	6.84	7.27	7.25	-
362	Electrical industrial apparatus	266.64	274.14	291.40	294.46	-	6.60	6.67	7.34	7.38	-
3621	Motors and generators	265.98	270.50	295.87	299.36	-	6.60	6.63	7.36	7.41	-
3622	Industrial controls	261.76	278.10	283.53	286.99	-	6.61	6.75	7.27	7.34	-
363	Household appliances	262.51	264.71	280.67	281.85	-	6.53	6.52	7.16	7.19	-
3632	Household refrigerators and freezers	296.21	294.17	334.40	335.79	-	7.26	7.21	8.07	8.17	-
3633	Household laundry equipment	313.34	312.26	336.65	346.98	-	7.68	7.71	8.61	8.74	-
3634	Electric housewares and fans	212.00	215.74	229.13	226.59	-	5.34	5.34	5.86	5.81	-
364	Electric lighting and wiring equipment	241.59	245.21	257.28	262.55	-	5.98	6.01	6.58	6.63	-
3641	Electric lamps	276.12	273.55	290.03	302.30	-	6.59	6.56	7.38	7.52	-
3643	Current-carrying wiring devices	229.14	237.69	239.42	241.16	-	5.63	5.70	6.10	6.09	-
3644	Noncurrent-carrying wiring devices	241.41	253.83	272.34	278.47	-	6.19	6.33	6.86	6.91	-
3645	Residential lighting fixtures	182.28	181.97	191.29	198.53	-	4.65	4.69	5.17	5.17	-
365	Radio and TV receiving equipment	228.53	234.42	258.59	258.59	-	5.89	5.98	6.58	6.58	-
3651	Radio and TV receiving sets	228.23	242.42	266.17	265.20	-	6.14	6.20	6.79	6.80	-
366	Communication equipment	312.36	318.59	329.27	332.11	-	7.60	7.64	8.11	8.18	-
3661	Telephone and telegraph apparatus	328.72	333.98	342.15	348.80	-	7.94	7.99	8.49	8.57	-
3662	Radio and TV communication equipment	298.99	305.76	319.46	319.55	-	7.31	7.35	7.83	7.89	-
367	Electronic components and accessories	218.90	226.29	243.66	245.07	-	5.20	5.56	6.20	6.22	-
3671-3	Electronic tubes	286.47	295.94	320.02	322.97	-	6.97	7.08	7.73	7.82	-
3674	Semiconductors and related devices	250.72	258.54	276.19	275.71	-	6.13	6.20	7.01	6.98	-
3679	Electronic components, nec	203.06	211.17	228.31	229.10	-	5.18	5.24	5.78	5.80	-
369	Misc. electrical equipment and supplies	305.25	301.99	330.47	340.63	-	7.50	7.42	8.18	8.39	-
3691	Storage batteries	311.66	304.91	332.48	344.03	-	7.62	7.51	8.07	8.33	-
3694	Engine electrical equipment	333.72	326.00	363.65	377.88	-	8.24	8.15	9.16	9.40	-
37	TRANSPORTATION EQUIPMENT	359.31	355.78	389.09	400.31	403.35	8.70	8.72	9.56	9.74	9.79
371	Motor vehicles and equipment	376.38	363.37	408.43	431.59	-	9.18	9.13	10.16	10.45	-
3711	Motor vehicles and car bodies	406.23	390.04	442.66	477.77	-	9.86	9.80	11.15	11.43	-
3713	Truck and bus bodies	293.92	295.64	322.36	316.37	-	7.46	7.60	8.12	8.05	-
3714	Motor vehicle parts and accessories	367.85	355.91	399.02	415.48	-	8.95	8.92	9.78	10.06	-
3715,6	Truck trailers and motor homes	244.67	249.25	256.66	261.67	-	6.21	6.31	6.79	6.85	-
372	Aircraft and parts	364.23	373.24	394.07	398.65	-	8.55	8.68	9.45	9.56	-
3721	Aircraft	375.28	383.02	409.76	420.09	-	8.83	8.97	9.85	10.05	-
3724	Aircraft engines and engine parts	378.32	380.03	399.78	394.83	-	8.86	8.90	9.61	9.56	-
3728	Aircraft equipment, nec	327.42	345.74	357.42	359.50	-	7.65	7.84	8.51	8.58	-
373	Ship and boat building and repairing	301.79	305.12	343.17	347.68	-	7.47	7.59	8.37	8.48	-
3731	Shipbuilding and repairing	317.90	321.18	357.98	362.03	-	7.83	7.95	8.71	8.83	-
3732	Boat building and repairing	244.11	248.61	284.82	290.09	-	6.18	6.31	7.05	7.11	-
374	Railroad equipment	390.83	396.45	405.97	399.89	-	9.35	9.53	10.33	10.28	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry—Continued**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	39.8	39.1	38.7	38.3	-	2.3	2.2	1.1	1.1	-
3532	Mining machinery	43.1	42.1	40.3	40.9	-	3.6	3.1	2.3	2.3	-
3533	Oil field machinery	42.6	43.1	44.9	44.7	-	5.0	5.4	5.7	5.7	-
3535	Conveyers and conveying equipment	41.2	41.5	40.3	40.0	-	3.4	3.7	3.0	2.9	-
3537	Industrial trucks and tractors	40.6	40.7	38.1	37.8	-	3.2	3.1	2.2	1.6	-
354	Metalworking machinery	43.3	43.5	41.9	41.8	-	5.6	5.8	4.3	4.3	-
3541	Machine tools, metal cutting types	44.7	45.0	43.1	43.3	-	6.6	6.8	5.3	5.0	-
3542	Machine tools, metal forming types	42.6	42.7	40.1	40.1	-	6.3	6.2	3.9	3.7	-
3544	Special dies, tools, jigs, and fixtures	43.7	43.7	42.4	42.6	-	5.7	5.9	5.0	5.3	-
3545	Machine tool accessories	42.3	42.7	40.5	40.2	-	5.2	5.7	3.3	3.3	-
3546	Power driven hand tools	41.0	42.2	41.3	40.8	-	3.8	4.4	2.5	2.2	-
355	Special industry machinery	41.3	42.1	41.0	40.9	-	3.8	4.1	3.2	2.9	-
3551	Food products machinery	41.2	41.3	40.0	40.3	-	3.3	3.6	2.5	2.5	-
3552	Textile machinery	41.1	40.8	40.8	40.5	-	3.2	3.0	2.4	2.0	-
3555	Printing trades machinery	42.6	44.1	41.9	42.5	-	4.2	4.8	3.9	3.7	-
356	General industrial machinery	41.7	42.1	40.9	40.4	-	4.3	4.5	3.4	3.1	-
3561	Pumps and pumping equipment	41.1	41.3	40.2	39.8	-	3.6	3.8	2.4	2.5	-
3562	Ball and roller bearings	42.7	42.9	41.3	40.8	-	5.2	5.4	3.7	3.4	-
3563	Air and gas compressors	42.3	44.0	43.4	42.3	-	4.7	5.7	4.8	4.5	-
3564	Blowers and fans	41.2	41.7	41.7	40.6	-	4.2	4.8	4.4	3.5	-
3566	Speed changers, drives, and gears	43.8	43.2	41.3	41.0	-	5.9	4.8	3.0	2.7	-
3568	Power transmission equipment, nec	41.5	41.5	39.7	40.0	-	3.6	3.7	2.9	2.9	-
357	Office and computing machines	41.4	42.6	41.6	41.1	-	3.0	3.5	2.9	2.6	-
3573	Electronic computing equipment	41.4	42.4	41.9	41.2	-	3.0	3.5	2.8	2.6	-
358	Refrigeration and service machinery	40.1	40.1	40.2	40.0	-	2.4	2.2	2.6	2.6	-
3585	Refrigeration and heating equipment	40.0	40.1	40.5	40.3	-	2.6	2.3	2.6	2.6	-
359	Misc. machinery, except electrical	41.2	41.0	40.9	40.9	-	4.3	4.2	3.7	3.7	-
3592	Carburetors, pistons, rings, valves	41.1	39.9	41.5	41.9	-	3.2	3.2	3.4	3.2	-
3599	Machinery, except electrical, nec	41.2	41.2	40.8	40.7	-	4.5	4.4	3.8	3.8	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	40.3	40.8	39.7	39.8	40.3	2.8	3.0	2.3	2.2	-
361	Electric distributing equipment	40.7	40.8	39.5	39.5	-	2.9	3.1	2.4	2.2	-
3612	Transformers	40.6	40.8	40.0	39.9	-	3.1	3.3	2.4	2.3	-
3613	Switchgear and switchboard apparatus	40.7	40.9	39.1	39.2	-	2.8	3.0	2.4	2.2	-
362	Electrical industrial apparatus	40.4	41.1	39.7	39.9	-	2.8	3.2	2.3	2.2	-
3621	Motors and generators	40.3	40.8	40.2	40.4	-	3.0	3.4	2.6	2.3	-
3622	Industrial controls	39.6	41.2	39.0	39.1	-	2.1	2.6	1.7	1.9	-
363	Household appliances	40.2	40.6	39.2	39.2	-	2.8	3.0	2.2	2.1	-
3632	Household refrigerators and freezers	40.8	40.8	41.4	41.1	-	2.7	2.7	1.9	1.9	-
3633	Household laundry equipment	40.8	40.5	39.1	39.7	-	1.5	1.6	1.2	2.1	-
3634	Electric housewares and fans	39.7	40.4	39.1	39.0	-	2.9	3.5	2.5	2.0	-
364	Electric lighting and wiring equipment	40.4	40.8	39.1	39.6	-	2.8	3.0	2.0	2.2	-
3641	Electric lamps	41.9	41.7	39.3	40.2	-	3.0	2.8	1.6	2.1	-
3643	Current-carrying wiring devices	40.7	41.7	39.2	39.6	-	3.2	3.8	1.9	2.0	-
3644	Noncurrent-carrying wiring devices	39.0	40.1	39.7	40.3	-	2.4	2.4	2.2	2.7	-
3645	Residential lighting fixtures	39.2	36.8	37.0	38.4	-	2.3	2.4	1.1	1.6	-
365	Radio and TV receiving equipment	38.8	39.2	39.3	39.3	-	2.2	2.0	1.8	1.6	-
3651	Radio and TV receiving sets	38.8	39.1	39.2	39.0	-	1.9	1.8	1.7	1.5	-
366	Communication equipment	41.1	41.7	40.6	40.6	-	3.0	3.3	2.4	2.2	-
3661	Telephone and telegraph apparatus	41.4	41.8	40.3	40.7	-	3.4	3.9	2.1	2.0	-
3662	Radio and TV communication equipment	40.9	41.6	40.8	40.5	-	2.6	2.7	2.6	2.3	-
367	Electronic components and accessories	39.8	40.7	39.3	39.4	-	3.0	3.3	2.4	2.2	-
3671-3	Electronic tubes	41.1	41.8	41.4	41.3	-	2.1	2.6	2.4	2.2	-
3674	Semiconductors and related devices	40.9	41.7	39.4	39.5	-	3.9	4.3	2.9	2.7	-
3679	Electronic components, nec	39.2	40.3	39.5	39.5	-	2.8	3.2	2.4	2.1	-
369	Misc. electrical equipment and supplies	40.7	40.7	40.4	40.6	-	2.7	2.4	2.4	2.7	-
3691	Storage batteries	40.9	40.6	41.2	41.3	-	3.6	2.6	3.0	4.0	-
3694	Engine electrical equipment	40.5	40.0	39.7	40.2	-	2.2	1.7	2.2	2.4	-
37	TRANSPORTATION EQUIPMENT	41.3	40.8	40.7	41.1	41.2	3.8	3.3	3.3	3.6	-
371	Motor vehicles and equipment	41.0	39.8	40.2	41.3	-	3.5	2.5	2.7	3.4	-
3711	Motor vehicles and car bodies	41.2	39.8	39.7	41.8	-	3.8	2.5	2.6	3.7	-
3713	Truck and bus bodies	39.4	38.9	39.7	39.3	-	2.8	2.5	2.0	1.9	-
3714	Motor vehicle parts and accessories	41.1	39.9	40.8	41.3	-	3.3	2.4	2.9	3.5	-
3715,6	Truck trailers and motor homes	39.4	39.5	37.8	38.2	-	2.2	2.0	1.4	1.5	-
372	Aircraft and parts	42.6	43.0	41.7	41.7	-	4.8	5.1	4.3	4.3	-
3721	Aircraft	42.5	42.7	41.6	41.8	-	4.3	4.3	3.7	3.7	-
3724	Aircraft engines and engine parts	42.7	42.7	41.6	41.3	-	5.3	5.9	5.0	4.9	-
3728	Aircraft equipment, nec	42.8	44.1	42.0	41.9	-	5.5	5.9	4.9	4.8	-
373	Ship and boat building and repairing	40.4	40.2	41.0	41.0	-	3.8	3.2	3.9	3.6	-
3731	Ship building and repairing	40.6	40.4	41.1	41.0	-	4.1	3.4	4.0	3.5	-
3732	Boat building and repairing	39.5	39.4	40.4	40.8	-	2.7	2.6	3.8	3.9	-
374	Railroad equipment	41.8	41.6	39.3	38.9	-	4.3	4.2	2.9	2.4	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	\$351.44	\$362.50	\$384.48	\$381.64	-	\$8.53	\$8.59	\$9.47	\$9.47	-
3761	Guided missiles and space vehicles	354.65	370.58	389.91	385.52	-	8.65	8.74	9.58	9.59	-
379	Miscellaneous transportation equipment	253.36	261.46	273.71	269.00	-	6.53	6.67	6.86	6.81	-
3792	Travel trailers and campers	219.58	225.07	233.31	227.46	-	5.84	5.97	6.06	5.97	-
38	INSTRUMENTS AND RELATED PRODUCTS	257.86	264.55	277.49	280.49	\$287.12	6.32	6.39	6.92	6.96	\$7.02
381	Engineering and scientific instruments	281.57	286.70	297.34	298.00	-	6.72	6.73	7.27	7.34	-
382	Measuring and controlling devices	257.29	266.05	282.17	282.46	-	6.26	6.38	6.95	6.94	-
3822	Environmental controls	225.35	239.44	248.82	251.62	-	5.84	5.84	6.38	6.37	-
3823	Process control instruments	268.18	282.10	296.87	295.67	-	6.34	6.50	6.92	6.86	-
3825	Instruments to measure electricity	273.41	284.39	301.25	300.11	-	6.62	6.82	7.42	7.41	-
383	Optical instruments and lenses	296.67	289.76	305.47	303.75	-	6.82	6.77	7.58	7.50	-
384	Medical instruments and supplies	207.19	220.99	233.04	233.79	-	5.34	5.47	5.96	6.01	-
3841	Surgical and medical instruments	192.56	212.70	228.28	230.88	-	4.95	6.15	5.75	5.86	-
3842	Surgical appliances and supplies	219.79	229.03	239.62	235.62	-	5.65	5.74	6.16	6.12	-
385	Ophthalmic goods	194.61	201.17	212.65	213.55	-	4.99	5.08	5.37	5.42	-
386	Photographic equipment and supplies	362.42	357.00	357.78	374.47	-	8.37	8.40	8.90	8.98	-
387	Watches, clocks, and watchcases	185.28	192.06	205.28	208.79	-	4.80	4.95	5.25	5.34	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	199.41	202.12	215.44	215.34	218.40	5.10	5.13	5.51	5.55	5.60
391	Jewelry, silverware, and plated ware	206.90	209.82	223.30	228.73	-	5.36	5.38	5.80	5.88	-
3911	Jewelry, precious metal	198.83	204.44	218.28	225.42	-	5.26	5.31	5.79	5.84	-
393	Musical instruments	212.38	212.05	214.66	215.28	-	5.18	5.21	5.49	5.52	-
394	Toys and sporting goods	180.18	182.03	198.07	197.73	-	4.62	4.62	5.04	5.07	-
3942, 4	Dolls, games, toys, and children's vehicles	171.55	171.70	183.65	183.65	-	4.41	4.38	4.77	4.77	-
3949	Sporting and athletic goods, nec	189.24	192.46	212.93	213.05	-	4.84	4.86	5.31	5.38	-
395	Pens, pencils, office and art supplies	218.36	219.54	229.39	224.87	-	5.30	5.29	5.65	5.65	-
396	Costume jewelry and notions	163.75	166.32	182.19	182.40	-	4.39	4.40	4.72	4.75	-
3961	Costume jewelry	150.79	152.40	169.27	168.14	-	4.12	4.13	4.49	4.52	-
399	Miscellaneous manufactures	223.40	226.91	237.68	236.78	-	5.67	5.73	6.11	6.15	-
3993	Signs and advertising displays	233.82	239.58	255.45	252.12	-	5.98	6.05	6.55	6.60	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	254.00	261.30	279.28	276.31	282.49	6.35	6.50	6.93	6.96	7.08
201	Meat products	260.82	266.79	283.14	277.75	-	6.44	6.62	7.15	7.14	-
2011	Meat packing plants	336.41	348.50	364.04	361.92	-	7.86	8.03	8.73	8.70	-
2013	Sausages and other prepared meats	305.88	312.53	326.23	319.37	-	7.59	7.66	8.28	8.21	-
2016	Poultry dressing plants	160.82	157.81	169.46	162.79	-	4.21	4.30	4.58	4.56	-
202	Dairy products	265.03	271.75	296.38	292.28	-	6.48	6.58	7.04	7.06	-
2022	Cheese, natural and processed	241.25	243.75	270.68	276.62	-	6.17	6.25	6.75	6.78	-
2026	Fluid milk	280.39	289.33	312.48	305.34	-	6.66	6.76	7.12	7.27	-
203	Preserved fruits and vegetables	212.76	211.23	244.61	230.29	-	5.40	5.43	6.10	5.92	-
2032	Canned specialties	269.14	267.33	296.96	278.56	-	6.23	6.29	6.89	6.68	-
2033	Canned fruits and vegetables	203.45	201.60	249.86	221.94	-	5.23	5.25	6.20	5.81	-
2037	Frozen fruits and vegetables	207.19	196.94	223.29	231.67	-	5.34	5.28	5.74	5.88	-
204	Grain mill products	308.96	320.17	340.34	342.22	-	7.07	7.26	7.70	7.76	-
2041	Flour and other grain mill products	351.75	359.95	372.56	373.83	-	7.50	7.61	7.91	7.87	-
2048	Prepared feeds, nec	254.46	261.51	282.83	281.60	-	5.77	5.93	6.37	6.40	-
205	Bakery products	263.06	270.28	287.12	284.90	-	6.78	6.86	7.40	7.40	-
2051	Bread, cake, and related products	263.73	271.66	286.10	283.46	-	6.85	6.93	7.47	7.44	-
2052	Cookies and crackers	259.91	266.40	291.28	289.41	-	6.58	6.66	7.21	7.29	-
206	Sugar and confectionery products	240.56	248.00	263.97	259.35	-	6.09	6.20	6.55	6.50	-
2061-3	Cane and beet sugar	293.44	309.82	350.92	320.00	-	7.41	7.52	8.18	7.98	-
2065	Confectionery products	207.09	210.50	223.40	222.78	-	5.31	5.37	5.67	5.64	-
207	Fats and oils	285.80	290.61	313.90	302.82	-	6.57	6.56	7.30	7.21	-
208	Beverages	307.60	315.17	336.60	334.84	-	7.69	7.84	8.25	8.35	-
2082	Malt beverages	433.42	443.81	476.44	463.70	-	10.52	10.72	11.08	11.12	-
2086	Bottled and canned soft drinks	218.79	221.13	253.13	246.18	-	5.61	5.67	6.25	6.28	-
209	Misc. foods and kindred products	210.38	214.32	234.99	234.52	-	5.61	5.70	6.01	6.06	-
21	TOBACCO MANUFACTURES	246.24	270.44	283.44	302.35	311.52	6.33	6.97	7.42	7.54	7.73
211	Cigarettes	308.27	328.84	358.88	394.61	-	8.07	8.18	9.57	9.89	-
22	TEXTILE MILL PRODUCTS	197.06	200.72	208.55	209.35	211.73	4.83	4.86	5.24	5.26	5.28
221	Weaving mills, cotton	211.68	218.44	222.49	223.99	-	5.04	5.08	5.48	5.49	-
222	Weaving mills, synthetics	213.09	215.97	222.49	224.52	-	5.11	5.13	5.48	5.53	-
223	Weaving and finishing mills, wool	197.11	200.29	214.27	214.66	-	4.94	4.97	5.33	5.38	-
224	Narrow fabric mills	176.36	180.85	189.34	188.65	-	4.42	4.51	4.71	4.74	-
225	Knitting mills	173.44	177.24	183.71	184.57	-	4.47	4.51	4.86	4.87	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	41.2	42.2	40.6	40.3	-	4.3	4.3	3.6	3.2	-
3761	Guided missiles and space vehicles	41.0	42.4	40.7	40.2	-	3.5	3.7	3.3	3.0	-
379	Miscellaneous transportation equipment	38.8	39.2	39.9	39.5	-	1.6	1.6	2.3	2.5	-
3792	Travel trailers and campers	37.6	37.7	38.5	38.1	-	1.5	1.4	1.9	1.8	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	40.8	41.4	40.1	40.3	40.9	2.6	2.9	2.4	2.3	-
381	Measuring and controlling devices	41.9	42.6	40.9	40.6	-	3.9	4.1	2.7	2.7	-
382	Environmental controls	41.1	41.7	40.6	40.7	-	2.6	3.0	2.3	2.2	-
3822	Process control instruments	40.3	41.0	39.0	39.5	-	1.6	2.1	1.9	1.7	-
3823	Instruments to measure electricity	42.3	43.4	42.9	43.1	-	3.3	3.5	3.6	3.5	-
3825	Optical instruments and lenses	41.3	41.7	40.6	40.5	-	2.1	2.9	1.9	1.9	-
383	Medical instruments and supplies	43.5	42.8	40.3	40.5	-	4.0	3.5	3.2	3.0	-
384	Surgical and medical instruments	38.8	40.4	39.1	38.9	-	2.1	2.8	2.2	1.9	-
3841	Surgical appliances and supplies	38.9	41.3	39.7	39.4	-	2.3	3.2	1.9	1.8	-
3842	Ophthalmic goods	38.9	39.9	38.9	38.5	-	2.2	2.7	2.7	2.2	-
385	Photographic equipment and supplies	39.0	39.6	39.6	39.4	-	1.7	2.0	1.7	1.7	-
386	Watches, clocks, and watchcases	43.3	42.5	40.2	41.7	-	3.3	3.2	3.0	3.2	-
387	Watches, clocks, and watchcases	38.6	38.8	39.1	39.1	-	1.3	1.2	1.3	1.4	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	39.1	39.4	39.1	38.8	39.0	2.6	2.6	2.0	2.1	-
391	Jewelry, precious metal	38.6	39.0	38.5	38.9	-	2.5	2.9	1.8	2.6	-
3911	Musical instruments	37.8	38.5	37.7	38.6	-	2.5	3.0	1.7	2.9	-
393	Toys and sporting goods	41.0	40.7	39.1	39.0	-	2.4	2.2	1.2	1.4	-
394	Dolls, games, toys, and children's vehicles	39.0	39.4	39.3	39.0	-	2.6	2.6	1.7	1.8	-
3942, 4	Sporting and athletic goods, nec	38.9	39.2	38.5	38.5	-	2.7	2.5	1.4	1.6	-
3949	Pens, pencils, office and art supplies	39.1	39.6	40.1	39.6	-	2.4	2.7	2.0	1.9	-
395	Costume jewelry and notions	41.2	41.5	40.6	39.8	-	2.9	2.9	2.8	2.5	-
396	Costume jewelry	37.3	37.8	38.6	38.4	-	2.2	2.3	2.0	2.1	-
3961	Miscellaneous manufactures	36.6	36.9	37.7	37.2	-	1.8	2.0	1.4	1.9	-
399	Signs and advertising displays	39.4	39.6	38.9	38.5	-	2.8	2.7	2.4	2.1	-
3993	Signs and advertising displays	39.1	39.6	39.0	38.2	-	2.8	2.8	2.7	2.1	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	40.0	40.2	40.3	39.7	39.9	4.2	4.3	4.4	4.0	-
201	Meat packing plants	40.5	40.3	39.6	38.9	-	4.5	4.7	3.9	3.6	-
2011	Sausages and other prepared meats	42.8	43.4	41.7	41.6	-	5.5	6.4	5.2	5.0	-
2013	Poultry dressing plants	40.3	40.8	39.4	38.9	-	4.3	4.1	3.0	2.9	-
2016	Dairy products	38.2	36.7	37.0	35.7	-	3.7	3.2	2.6	2.4	-
202	Cheese, natural and processed	40.9	41.3	42.1	41.4	-	3.8	3.9	4.5	3.7	-
2022	Fluid milk	39.1	39.0	40.1	40.8	-	3.1	3.0	3.7	3.4	-
2026	Preserved fruits and vegetables	42.1	42.8	43.1	42.0	-	4.2	4.4	4.9	4.2	-
203	Canned specialties	39.4	38.9	40.1	38.9	-	4.3	3.6	5.2	4.3	-
2032	Canned fruits and vegetables	43.2	42.5	43.1	41.7	-	7.4	6.6	8.7	7.6	-
2033	Frozen fruits and vegetables	38.9	36.4	40.3	38.2	-	4.4	3.3	5.8	4.3	-
2037	Grain mill products	38.8	37.3	38.9	39.4	-	4.7	3.4	3.8	4.0	-
204	Flour and other grain mill products	43.7	44.1	44.2	44.1	-	6.5	6.6	6.4	6.3	-
2041	Prepared feeds, nec	46.9	47.3	47.1	47.5	-	8.3	8.5	7.7	7.2	-
2048	Bakery products	44.1	44.1	44.4	44.0	-	6.7	6.5	7.0	6.6	-
205	Bread, cake, and related products	38.8	39.4	38.8	38.5	-	3.1	3.7	3.4	3.3	-
2051	Cookies and crackers	38.5	39.2	38.3	38.1	-	3.4	4.3	3.7	3.5	-
2052	Sugar and confectionery products	39.5	40.0	40.4	39.7	-	2.3	2.0	2.8	2.7	-
206	Cane and beet sugar	39.5	40.0	40.3	39.9	-	3.7	3.9	3.0	3.3	-
2061-3	Confectionery products	39.6	41.2	42.9	40.1	-	5.4	5.8	3.7	3.9	-
2065	Fats and oils	39.0	39.2	39.4	39.5	-	3.0	3.3	2.9	3.0	-
207	Beverages	43.5	44.3	43.0	42.0	-	6.4	6.4	5.3	5.3	-
208	Malt beverages	40.0	40.2	40.8	40.1	-	3.8	3.9	4.4	3.7	-
2082	Bottled and canned soft drinks	41.2	41.4	43.0	41.7	-	5.0	5.5	5.8	4.7	-
2086	Misc. foods and kindred products	39.0	39.0	40.5	39.2	-	3.3	3.2	4.0	3.0	-
209	Misc. foods and kindred products	37.5	37.6	39.1	38.7	-	3.2	3.1	3.8	3.6	-
TOBACCO MANUFACTURES											
21	Cigarettes	38.9	38.8	38.2	40.1	40.3	1.6	1.8	1.8	2.6	-
211	Cigarettes	38.2	40.2	37.5	39.9	-	1.6	2.1	1.7	3.1	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	40.8	41.3	39.8	39.8	40.1	3.8	4.0	3.0	3.0	-
221	Weaving mills, synthetics	42.0	43.0	40.6	40.8	-	4.6	5.2	3.6	3.7	-
222	Weaving and finishing mills, wool	41.7	42.1	40.6	40.6	-	4.3	4.2	3.1	3.4	-
223	Narrow fabric mills	39.9	40.3	40.2	39.9	-	3.3	3.7	2.7	2.7	-
224	Knitting mills	39.9	40.1	40.2	39.8	-	3.0	3.4	2.1	2.3	-
225	Knitting mills	38.8	39.3	37.8	37.9	-	2.8	3.0	2.2	2.2	-

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				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	\$ 165.98	\$ 171.94	\$ 158.10	\$ 154.93	-	\$ 4.30	\$ 4.32	\$ 4.53	\$ 4.53	-
2252	Hosiery, nec	159.60	160.70	172.33	173.25	-	4.20	4.24	4.62	4.62	-
2253	Knit outerwear mills	168.52	171.55	181.93	183.35	-	4.40	4.41	4.75	4.75	-
2254	Knit underwear mills	150.95	152.76	168.36	169.00	-	4.17	4.22	4.60	4.63	-
2257	Circular knit fabric mills	199.92	207.75	221.45	219.05	-	4.90	4.97	5.55	5.49	-
226	Textile finishing, except wool	215.79	219.63	226.85	229.04	-	5.15	5.18	5.56	5.60	-
2261	Finishing plants, cotton	221.23	230.26	225.50	229.60	-	5.28	5.33	5.68	5.74	-
2262	Finishing plants, synthetics	226.42	227.06	238.52	242.34	-	5.34	5.33	5.72	5.77	-
227	Floor covering mills	205.80	208.58	226.59	219.50	-	4.90	4.99	5.46	5.38	-
228	Yarn and thread mills	187.01	189.20	193.75	194.64	-	4.55	4.57	4.93	4.94	-
2281	Yarn mills, except wool	191.03	193.66	195.92	197.11	-	4.57	4.60	4.96	4.99	-
2282	Throwing and winding mills	174.68	174.54	186.12	185.65	-	4.40	4.43	4.76	4.70	-
229	Miscellaneous textile goods	218.06	217.35	241.19	244.28	-	5.28	5.25	5.77	5.83	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	153.01	153.79	165.44	167.44	\$ 167.80	4.31	4.32	4.70	4.73	\$ 4.74
231	Men's and boys' suits and coats	181.82	187.61	190.44	194.92	-	5.27	5.27	5.29	5.46	-
232	Men's and boys' furnishings	144.57	148.00	154.57	154.87	-	3.95	4.00	4.27	4.29	-
2321	Men's and boys' shirts and nightwear	139.78	143.52	152.04	152.04	-	3.84	3.90	4.20	4.20	-
2327	Men's and boys' separate trousers	145.08	145.20	152.25	156.64	-	4.11	4.09	4.35	4.40	-
2328	Men's and boys' work clothing	146.30	150.54	153.87	151.73	-	3.81	3.88	4.17	4.18	-
233	Women's and misses' outerwear	143.76	142.25	155.00	156.75	-	4.33	4.35	4.74	4.75	-
2331	Women's and misses' blouses and waists	138.04	137.30	146.06	149.94	-	4.06	4.05	4.36	4.41	-
2335	Women's and misses' dresses	141.64	137.54	151.10	152.70	-	4.44	4.48	4.89	4.91	-
2337	Women's and misses' suits and coats	152.79	154.49	175.45	175.91	-	4.63	4.71	5.13	5.22	-
2339	Women's and misses' outerwear, nec	144.06	144.06	153.67	155.27	-	4.20	4.20	4.56	4.54	-
234	Women's and children's undergarments	141.51	146.57	152.10	153.67	-	3.92	3.94	4.19	4.21	-
2341	Women's and children's underwear	140.50	145.51	151.52	152.26	-	3.86	3.87	4.14	4.16	-
2342	Brassieres and allied garments	147.20	150.52	155.31	158.95	-	4.23	4.24	4.45	4.44	-
236	Children's outerwear	138.87	143.39	153.87	155.66	-	3.89	3.95	4.31	4.30	-
2361	Children's dresses and blouses	137.14	139.71	146.54	153.91	-	3.82	3.87	4.26	4.24	-
238	Misc. apparel and accessories	154.56	158.79	162.45	165.23	-	4.20	4.28	4.50	4.49	-
239	Misc. fabricated textile products	187.78	181.74	209.43	214.48	-	4.89	4.77	5.57	5.60	-
2391	Curtaains and draperies	145.92	147.07	148.83	148.73	-	3.82	3.86	4.10	4.12	-
2392	House furnishing, nec	165.87	167.88	173.42	178.64	-	4.21	4.25	4.60	4.62	-
2396	Automotive and apparel trimmings	305.74	279.31	346.33	354.37	-	7.76	7.59	9.09	9.04	-
26	PAPER AND ALLIED PRODUCTS	314.27	318.75	341.74	342.21	344.68	7.36	7.43	8.06	8.09	8.11
261, 2,6	Paper and pulp mills	388.39	393.24	423.25	421.36	-	8.65	8.70	9.49	9.49	-
262	Paper mills, except building paper	388.72	394.90	423.41	423.81	-	8.60	8.66	9.43	9.46	-
263	Paperboard mills	383.66	392.05	418.13	421.80	-	8.68	8.81	9.46	9.50	-
264	Misc. converted paper products	264.68	268.62	284.42	285.73	-	6.44	6.52	7.04	7.09	-
2641	Paper coating and glazing	311.19	308.72	317.05	320.74	-	7.22	7.23	7.79	7.90	-
2642	Envelopes	238.60	243.81	254.40	256.96	-	5.95	6.02	6.36	6.44	-
2643	Bags, except textile bags	254.20	260.20	272.69	275.52	-	6.14	6.21	6.70	6.72	-
265	Paperboard containers and boxes	271.23	276.78	295.36	295.48	-	6.52	6.59	7.10	7.12	-
2651	Folding paperboard boxes	278.88	281.82	300.66	301.18	-	6.64	6.71	7.21	7.24	-
2653	Corrugated and solid fiber boxes	286.44	290.86	313.87	315.88	-	6.82	6.86	7.42	7.45	-
2654	Sanitary food containers	257.30	260.63	281.23	276.30	-	6.20	6.25	6.68	6.69	-
27	PRINTING AND PUBLISHING	266.25	270.23	288.33	287.15	288.27	7.10	7.13	7.73	7.74	7.77
271	Newspapers	255.00	261.50	260.30	264.88	-	7.37	7.45	7.77	7.86	-
272	Periodicals	242.43	253.17	275.26	273.42	-	6.57	6.68	7.36	7.35	-
273	Books	245.50	245.85	271.32	269.93	-	6.41	6.32	7.14	7.16	-
2731	Book publishing	233.75	236.90	263.52	255.50	-	6.25	6.09	6.99	7.00	-
2732	Book printing	256.11	255.06	278.10	283.97	-	6.55	6.54	7.28	7.30	-
274	Miscellaneous publishing	219.35	222.88	248.79	243.52	-	6.11	6.14	6.93	6.69	-
275	Commercial printing	285.64	285.67	313.05	309.08	-	7.40	7.42	8.11	8.07	-
2751	Commercial printing, letterpress	263.41	265.94	289.94	285.39	-	6.95	6.98	7.61	7.57	-
2752	Commercial printing, lithographic	296.01	292.20	323.26	320.05	-	7.59	7.57	8.31	8.27	-
276	Manifold business forms	281.81	289.23	299.15	300.75	-	6.84	6.87	7.46	7.50	-
278	Blankbooks and bookbinding	209.37	212.31	231.08	229.25	-	5.41	5.43	5.91	5.97	-
279	Printing trade services	344.89	353.47	366.28	364.72	-	9.10	9.11	9.69	9.70	-
28	CHEMICALS AND ALLIED PRODUCTS	326.51	332.54	349.40	352.73	358.62	7.83	7.88	8.46	8.52	8.60
281	Industrial inorganic chemicals	361.25	368.51	383.98	389.69	-	8.52	8.61	9.32	9.39	-
2819	Industrial inorganic chemicals, nec	360.81	368.88	383.39	387.86	-	8.55	8.70	9.42	9.46	-
282	Plastics materials and synthetics	324.01	328.08	343.58	346.92	-	7.77	7.83	8.38	8.40	-
2821	Plastics materials and resins	361.25	364.65	379.96	390.22	-	8.48	8.50	9.09	9.16	-
2824	Organic fibers, noncellulosic	297.88	302.73	315.52	315.50	-	7.23	7.33	7.81	7.79	-
283	Drugs	295.51	300.12	318.65	320.69	-	7.19	7.18	7.81	7.86	-
2834	Pharmaceutical preparations	280.67	285.36	301.50	303.16	-	6.93	6.96	7.50	7.56	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	38.6	39.8	34.9	34.2	-	3.4	3.9	0.9	0.8	-
2252	Hosiery, nec	38.0	37.9	37.3	37.5	-	2.2	2.0	2.2	2.0	-
2253	Knit outerwear mills	38.3	38.9	38.3	38.6	-	2.5	2.6	2.6	2.6	-
2254	Knit underwear mills	36.2	36.2	36.6	36.5	-	1.3	1.3	1.5	1.4	-
2257	Circular knit fabric mills	40.8	41.8	39.9	39.9	-	4.0	4.6	3.5	3.4	-
226	Textile finishing, except wool	41.9	42.4	40.8	40.9	-	4.1	4.3	3.4	3.3	-
2261	Finishing plants, cotton	41.9	43.2	39.7	40.0	-	4.0	4.7	3.2	3.1	-
2262	Finishing plants, synthetics	42.4	42.6	41.7	42.0	-	4.7	4.7	3.9	4.1	-
227	Floor covering mills	42.0	41.8	41.5	40.8	-	4.4	4.1	4.3	3.8	-
228	Yarn and thread mills	41.1	41.4	39.3	39.4	-	4.0	3.9	2.8	2.8	-
2281	Yarn mills, except wool	41.8	42.1	39.5	39.5	-	4.4	4.4	2.9	3.0	-
2282	Throwing and winding mills	39.7	39.4	39.1	39.5	-	3.4	3.0	3.4	2.8	-
229	Miscellaneous textile goods	41.3	41.4	41.8	41.9	-	3.9	3.5	3.6	3.7	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.5	35.6	35.2	35.4	35.4	1.1	1.2	1.1	1.1	-
231	Men's and boys' suits and coats	34.5	35.6	36.0	35.7	-	.5	.6	.9	.8	-
232	Men's and boys' furnishings	36.6	37.0	36.2	36.1	-	1.2	1.3	1.2	1.1	-
2321	Men's and boys' shirts and nighwear	36.4	36.8	36.2	36.2	-	1.2	1.4	1.1	1.1	-
2327	Men's and boys' separate trousers	35.3	35.5	35.0	35.6	-	1.2	1.0	1.0	1.1	-
2328	Men's and boys' work clothing	38.4	38.8	36.9	36.3	-	1.3	1.5	1.4	1.1	-
233	Women's and misses' outerwear	33.2	32.7	32.7	33.0	-	.8	.8	.8	.8	-
2331	Women's and misses' blouses and waists	34.0	33.9	33.5	34.0	-	.6	.7	.8	.9	-
2335	Women's and misses' dresses	31.9	30.7	30.9	31.1	-	.9	.8	.7	.8	-
2337	Women's and misses' suits and coats	33.0	32.8	34.2	33.7	-	.8	.7	1.0	.8	-
2339	Women's and misses' outerwear, nec	34.3	34.3	33.7	34.2	-	.9	.9	.9	.9	-
234	Women's and children's undergarments	36.1	37.2	36.3	36.5	-	1.5	1.4	1.1	1.2	-
2341	Women's and children's underwear	36.4	37.6	36.6	36.6	-	1.6	1.5	1.1	1.2	-
2342	Brassieres and allied garments	34.8	35.5	34.9	35.8	-	1.2	1.2	.9	1.2	-
236	Children's outerwear	35.7	36.3	35.7	36.2	-	1.2	1.3	1.1	1.1	-
2361	Children's dresses and blouses	35.9	36.1	34.4	36.3	-	1.1	1.2	.9	.9	-
238	Misc. apparel and accessories	36.8	37.1	36.1	36.8	-	1.6	1.7	1.1	1.5	-
239	Misc. fabricated textile products	38.4	38.1	37.6	38.3	-	1.7	1.6	1.9	2.0	-
2391	Curtains and draperies	38.2	38.1	36.3	36.1	-	1.1	1.2	.6	.6	-
2392	House furnishings, nec	39.4	39.5	37.7	38.5	-	2.7	2.8	1.8	2.2	-
2396	Automotive and apparel trimmings	39.4	36.8	38.1	39.2	-	1.8	.6	3.2	2.5	-
26	PAPER AND ALLIED PRODUCTS	42.7	42.9	42.4	42.3	42.5	5.0	5.0	4.6	4.5	-
261, 2, 6	Paper and pulp mills	44.9	45.2	44.6	44.4	-	6.9	7.1	6.9	6.5	-
262	Paper mills, except building paper	45.2	45.6	44.9	44.8	-	7.0	7.2	7.1	6.7	-
263	Paperboard mills	44.2	44.5	44.2	44.4	-	7.3	7.5	6.8	7.1	-
264	Misc. converted paper products	41.1	41.2	40.4	40.3	-	3.5	3.4	3.0	2.8	-
2641	Paper coating and glazing	43.1	42.7	40.7	40.6	-	4.4	4.4	3.2	3.1	-
2642	Envelopes	40.1	40.5	40.0	39.9	-	3.1	3.0	2.5	2.1	-
2643	Bags, except textile bags	41.4	41.9	40.7	41.0	-	3.5	3.6	3.1	2.9	-
265	Paperboard containers and boxes	41.6	42.0	41.6	41.5	-	4.0	3.9	3.4	3.3	-
2651	Folding paperboard boxes	42.0	42.0	41.7	41.6	-	3.8	3.6	3.9	3.8	-
2653	Corrugated and solid fiber boxes	42.0	42.4	42.3	42.4	-	4.6	4.3	3.4	3.4	-
2654	Sanitary food containers	41.5	41.7	42.1	41.3	-	3.4	3.1	3.7	2.9	-
27	PRINTING AND PUBLISHING	37.5	37.9	37.3	37.1	37.1	3.0	3.0	2.8	2.5	-
271	Newspapers	34.6	35.1	33.5	33.7	-	2.3	2.6	1.8	2.0	-
272	Periodicals	36.9	37.9	37.4	37.2	-	2.1	2.1	3.0	2.6	-
273	Books	38.3	38.9	38.0	37.7	-	2.9	3.1	2.5	2.1	-
2731	Book publishing	37.4	38.9	37.7	36.5	-	1.7	2.1	1.5	.9	-
2732	Book printing	39.1	39.0	38.2	38.9	-	4.0	4.1	3.4	3.2	-
274	Miscellaneous publishing	35.9	36.3	35.9	36.4	-	1.8	2.4	1.8	1.2	-
275	Commercial printing	38.6	38.5	38.6	38.3	-	3.5	3.3	3.4	3.0	-
2751	Commercial printing, letterpress	37.9	38.1	38.1	37.7	-	2.9	2.9	2.8	2.5	-
2752	Commercial printing, lithographic	39.0	38.6	38.9	38.7	-	3.9	3.3	3.7	3.2	-
276	Manifold business forms	41.2	42.1	40.1	40.1	-	3.6	4.0	2.8	2.8	-
278	Blankbooks and bookbinding	38.7	39.1	38.4	38.4	-	2.4	2.2	2.2	1.9	-
279	Printing trade service	37.9	38.8	37.8	37.6	-	3.7	3.7	3.9	3.6	-
28	CHEMICALS AND ALLIED PRODUCTS	41.7	42.2	41.3	41.4	41.7	3.6	3.6	3.1	3.2	-
281	Industrial inorganic chemicals	42.4	42.8	41.2	41.5	-	3.9	4.1	3.0	3.1	-
2819	Industrial inorganic chemicals, nec	42.2	42.4	40.7	41.0	-	3.7	3.9	2.8	3.0	-
282	Plastics materials and synthetics	41.7	41.9	41.0	41.3	-	3.4	3.4	2.5	2.8	-
2821	Plastics materials and resins	42.6	42.9	41.8	42.6	-	4.4	4.5	3.6	4.0	-
2824	Organic fibers, noncellulosic	41.2	41.3	40.4	40.5	-	2.5	2.3	1.5	1.8	-
283	Drugs	41.1	41.8	40.8	40.8	-	2.9	2.9	2.9	2.9	-
2834	Pharmaceutical preparations	40.5	41.0	40.2	40.1	-	2.8	2.9	3.0	2.9	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-2. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry—Continued

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$292.82	\$302.50	\$313.24	\$310.68	-	\$7.23	\$7.36	\$7.64	\$7.69	-
2841	Soap and other detergents	400.53	420.44	423.85	417.54	-	9.38	9.71	10.02	10.11	-
2844	Toilet preparations	231.67	234.40	247.46	246.83	-	5.88	5.86	6.11	6.14	-
2842, 3	Polishing, sanitation, and finishing preparations	265.99	271.88	295.47	293.72	-	6.70	6.78	7.35	7.38	-
285	Paints and allied products	278.07	278.88	302.30	311.76	-	6.90	6.92	7.52	7.66	-
286	Industrial organic chemicals	397.81	403.79	416.23	423.00	-	9.23	9.24	9.84	10.00	-
2865	Cyclic crudes and intermediates	364.19	376.27	368.18	388.54	-	8.63	8.63	8.98	9.34	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	409.70	413.40	433.14	435.37	-	9.44	9.46	10.12	10.22	-
287	Agricultural chemicals	322.71	330.81	368.45	365.90	-	7.54	7.64	8.47	8.47	-
289	Miscellaneous chemical products	303.37	306.81	322.77	328.43	-	7.31	7.34	7.95	8.03	-
29	PETROLEUM AND COAL PRODUCTS	418.07	428.29	448.32	456.88	\$464.54	9.48	9.56	10.33	10.36	\$10.51
291	Petroleum refining	447.48	458.75	478.90	489.07	-	10.17	10.24	11.06	11.09	-
295	Paving and roofing materials	338.07	340.01	360.45	363.96	-	7.43	7.44	8.10	8.07	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	247.86	247.44	267.19	272.43	279.07	6.12	6.14	6.63	6.71	6.79
301	Tires and inner tubes	377.65	368.74	423.43	430.92	-	9.10	9.06	10.13	10.26	-
302	Rubber and plastics footwear	162.12	166.92	185.12	188.24	-	4.20	4.28	4.45	4.45	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	261.43	261.70	299.71	298.16	-	6.33	6.43	7.17	7.15	-
306	Fabricated rubber products, nec	234.77	234.40	254.64	259.61	-	5.84	5.86	6.35	6.41	-
307	Miscellaneous plastics products	227.05	228.10	242.99	248.25	-	5.62	5.66	6.09	6.16	-
31	LEATHER AND LEATHER PRODUCTS	157.32	159.34	166.88	167.50	168.12	4.31	4.33	4.61	4.64	4.67
311	Leather tanning and finishing	222.71	226.20	248.25	253.94	-	5.74	5.80	6.16	6.27	-
314	Footwear, except rubber	149.64	153.24	161.01	159.94	-	4.18	4.21	4.46	4.48	-
3143	Men's footwear, except athletic	163.61	164.80	173.82	175.48	-	4.41	4.43	4.66	4.73	-
3144	Women's footwear, except athletic	136.86	143.02	148.61	145.58	-	3.99	4.04	4.32	4.32	-
316	Luggage	175.80	169.34	181.05	176.78	-	4.59	4.54	4.88	4.83	-
317	Handbags and personal leather goods	152.22	150.63	153.03	158.42	-	4.07	4.06	4.41	4.45	-
-	TRANSPORTATION AND PUBLIC UTILITIES	337.20	342.10	358.89	365.24	367.23	8.43	8.51	9.04	9.20	9.25
	RAILROAD TRANSPORTATION:										
4011	Class I railroads	406.73	414.85	448.49	-	-	9.14	9.26	10.31	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	207.09	207.33	220.04	218.32	-	6.02	6.08	6.51	6.44	-
411	Local and suburban transportation	279.48	275.25	273.62	275.97	-	6.85	6.83	6.98	7.04	-
413	Intercity highway transportation	332.10	349.00	365.74	357.00	-	9.00	9.16	10.42	10.00	-
42	TRUCKING AND WAREHOUSING	344.12	343.65	368.00	371.45	-	8.69	8.70	9.34	9.50	-
421, 3	Trucking and trucking terminals	352.93	351.05	375.48	380.05	-	8.89	8.91	9.53	9.72	-
422	Public warehousing	236.16	247.65	251.74	251.29	-	6.04	6.13	6.59	6.46	-
46	PIPE LINES, EXCEPT NATURAL GAS	416.11	421.83	444.78	446.90	-	9.61	9.81	10.49	10.54	-
48	COMMUNICATION	328.80	332.07	342.50	355.61	-	8.22	8.24	8.52	8.98	-
481	Telephone communication	343.40	346.80	352.81	371.60	-	8.50	8.50	8.69	9.29	-
4817	Switchboard operating employees ²	233.77	236.38	233.06	(*)	-	7.02	7.12	7.02	(*)	-
4818	Line construction employees ³	474.72	466.26	465.75	(*)	-	10.32	10.27	10.35	(*)	-
483	Radio and television broadcasting	267.65	269.63	290.32	286.15	-	6.97	7.04	7.62	7.57	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	354.05	359.53	378.98	384.22	-	8.47	8.54	9.11	9.17	-
491	Electric services	358.23	370.64	396.53	396.02	-	8.57	8.68	9.33	9.34	-
492	Gas production and distribution	324.99	325.03	340.09	358.59	-	7.85	7.87	8.46	8.62	-
493	Combination utility services	392.70	394.28	409.53	413.00	-	9.35	9.41	9.94	10.00	-
495	Sanitary services	291.98	287.12	300.96	303.89	-	6.87	6.82	7.20	7.27	-
-	WHOLESALE AND RETAIL TRADE	166.86	167.83	178.48	179.12	180.72	5.15	5.18	5.56	5.58	5.63
50, 51	WHOLESALE TRADE	253.63	255.96	272.58	273.67	276.76	6.52	6.58	7.08	7.09	7.17
50	WHOLESALE TRADE-DURABLE GOODS	256.24	257.81	275.02	276.90	-	6.52	6.56	7.07	7.10	-
501	Motor vehicles and automotive equipment	232.70	234.85	250.75	255.15	-	6.06	6.10	6.53	6.61	-
502	Furniture and home furnishings	226.13	227.56	235.79	239.20	-	6.03	6.02	6.39	6.43	-
503	Lumber and construction materials	260.17	262.01	280.41	281.06	-	6.57	6.65	7.19	7.17	-
504	Sporting goods, toys, and hobby goods	250.61	249.38	274.81	271.50	-	6.81	6.74	7.27	7.24	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry—Continued**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.5	41.1	41.0	40.4	-	3.0	3.1	3.3	2.9	-
2841	Soap and other detergents	42.7	43.3	42.3	41.3	-	4.5	4.8	4.3	4.1	-
2844	Toilet preparations	39.4	40.0	40.5	40.2	-	2.2	2.1	2.9	2.5	-
2842, 3	Polishing, sanitation, and finishing preparations	39.7	40.1	40.2	39.8	-	2.6	2.6	2.8	2.3	-
285	Paints and allied products	40.3	40.3	40.2	40.7	-	2.5	2.2	2.4	2.7	-
286	Industrial organic chemicals	43.1	43.7	42.3	42.3	-	4.4	4.5	3.2	3.6	-
2865	Cyclic crudes and intermediates	42.2	43.6	41.0	41.6	-	4.5	4.8	2.5	2.9	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	43.4	43.7	42.8	42.6	-	4.4	4.4	3.4	3.8	-
287	Agricultural chemicals	42.8	43.3	43.5	43.2	-	4.6	4.8	5.1	5.2	-
289	Miscellaneous chemical products	41.5	41.8	40.6	40.9	-	3.8	4.0	3.2	3.3	-
29	PETROLEUM AND COAL PRODUCTS	44.1	44.8	43.4	44.1	44.2	4.4	4.8	3.9	4.1	-
291	Petroleum refining	44.0	44.8	43.3	44.1	-	3.7	4.2	3.4	3.6	-
295	Paving and roofing materials	45.5	45.7	44.5	45.1	-	7.7	7.6	6.8	6.8	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	40.5	40.3	40.3	40.6	41.1	3.3	3.2	3.1	3.1	-
301	Tires and inner tubes	41.5	40.7	41.8	42.0	-	4.0	3.2	3.3	3.6	-
302	Rubber and plastics footwear	38.6	35.0	41.6	42.3	-	2.1	2.5	3.2	3.1	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.3	40.7	41.8	41.7	-	3.9	3.3	3.2	2.7	-
306	Fabricated rubber products, nec	40.2	40.0	40.1	40.5	-	2.7	2.6	2.6	2.7	-
307	Miscellaneous plastics products	40.4	40.3	39.9	40.3	-	3.4	3.3	3.1	3.1	-
31	LEATHER AND LEATHER PRODUCTS	36.5	36.8	36.2	36.1	36.0	1.6	1.7	1.5	1.5	-
311	Leather tanning and finishing	38.8	35.0	40.3	40.5	-	2.4	2.6	3.0	2.9	-
314	Footwear, except rubber	35.8	36.4	36.1	35.7	-	1.4	1.4	1.2	1.1	-
3143	Men's footwear, except athletic	37.1	37.2	37.3	37.1	-	1.8	1.5	1.3	1.1	-
3144	Women's footwear, except athletic	34.3	35.4	34.4	33.7	-	1.1	1.4	1.1	1.1	-
316	Luggage	38.3	37.3	37.1	36.6	-	2.0	3.0	2.4	2.4	-
317	Handbags and personal leather goods	37.4	37.1	34.7	35.6	-	2.0	1.8	1.5	2.1	-
-	TRANSPORTATION AND PUBLIC UTILITIES	40.0	40.2	39.7	39.7	39.7	-	-	-	-	-
4011	RAILROAD TRANSPORTATION: Class I railroads ²	44.5	44.8	43.5	-	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.4	34.1	33.8	33.9	-	-	-	-	-	-
411	Local and suburban transportation	40.8	40.3	39.2	39.2	-	-	-	-	-	-
413	Intercity highway transportation	36.9	38.1	35.1	35.7	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	39.6	39.5	39.4	39.1	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	39.7	39.4	39.4	39.1	-	-	-	-	-	-
422	Public warehousing	39.1	40.4	38.2	38.9	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	43.3	43.0	42.4	42.4	-	-	-	-	-	-
48	COMMUNICATION	40.0	40.3	40.2	39.6	-	-	-	-	-	-
481	Telephone communication	40.4	40.8	40.6	40.0	-	-	-	-	-	-
4817	Switchboard operating employees ³	33.3	33.2	33.2	(*)	-	-	-	-	-	-
4818	Line construction employees ⁴	46.0	45.4	45.0	(*)	-	-	-	-	-	-
483	Radio and television broadcasting	38.4	38.3	38.1	37.8	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.8	42.1	41.6	41.9	-	-	-	-	-	-
491	Electric services	41.9	42.7	42.5	42.4	-	-	-	-	-	-
492	Gas production and distribution	41.4	41.3	40.2	41.6	-	-	-	-	-	-
493	Combination utility services	42.0	41.9	41.2	41.3	-	-	-	-	-	-
495	Sanitary services	42.5	42.1	41.8	41.8	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	32.4	32.4	32.1	32.1	32.1	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.9	38.9	38.5	38.6	38.6	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	39.3	39.3	38.9	39.0	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.4	38.5	38.4	38.6	-	-	-	-	-	-
502	Furniture and home furnishings	37.5	37.8	36.9	37.2	-	-	-	-	-	-
503	Lumber and construction materials	39.6	39.4	39.0	39.2	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	36.8	37.0	37.8	37.5	-	-	-	-	-	-

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				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
506	Metals and minerals, except petroleum	\$300.80	\$307.13	\$328.20	\$329.47	-	\$7.52	\$7.64	\$8.33	\$8.32	-
506	Electrical goods	260.52	264.77	286.69	285.92	-	6.68	6.72	7.37	7.35	-
507	Hardware, plumbing, and heating equipment	239.86	241.88	258.72	258.72	-	6.23	6.25	6.72	6.72	-
508	Machinery, equipment, and supplies	269.20	270.12	286.10	288.41	-	6.73	6.77	7.28	7.32	-
509	Miscellaneous durable goods	218.90	221.03	228.44	231.60	-	5.57	5.61	5.98	6.00	-
51	WHOLESALE TRADE-NONDURABLE GOODS	249.33	253.16	268.71	270.84	-	6.51	6.61	7.09	7.09	-
511	Paper and paper products	282.36	285.07	293.83	296.57	-	7.80	7.81	8.05	8.17	-
512	Drugs, proprietaries, and sundries	252.67	256.81	285.77	281.25	-	6.72	6.83	7.58	7.50	-
513	Apparel, piece goods, and notions	222.89	225.06	236.43	236.74	-	6.04	6.05	6.39	6.33	-
514	Groceries and related products	250.37	258.30	267.25	269.14	-	6.52	6.64	7.07	7.12	-
516	Chemicals and allied products	305.69	308.85	330.22	329.04	-	7.70	7.76	8.36	8.33	-
517	Petroleum and petroleum products	314.82	319.57	337.73	338.70	-	7.91	8.07	8.55	8.51	-
518	Beer, wine, and distilled beverages	272.32	284.13	298.15	298.96	-	7.38	7.70	8.08	8.08	-
519	Miscellaneous nondurable goods	204.37	205.20	223.29	226.59	-	5.35	5.40	5.83	5.84	-
52-59	RETAIL TRADE	139.54	140.45	149.00	149.10	\$150.30	4.59	4.62	4.95	4.97	\$5.01
52	BUILDING MATERIALS AND GARDEN SUPPLIES	190.23	189.21	201.62	200.91	-	5.10	5.10	5.42	5.43	-
521	Lumber and other building materials	211.58	210.26	221.52	222.69	-	5.37	5.35	5.68	5.71	-
525	Hardware stores	146.29	147.63	159.74	157.79	-	4.38	4.42	4.74	4.71	-
53	GENERAL MERCHANDISE STORES	130.69	130.10	141.90	140.64	-	4.43	4.41	4.81	4.80	-
531	Department stores	126.29	134.95	148.09	146.79	-	4.62	4.59	5.02	5.01	-
533	Variety stores	106.92	106.68	113.58	112.04	-	3.60	3.58	3.85	3.85	-
539	Misc. general merchandise stores	104.66	105.38	115.25	113.20	-	3.56	3.56	3.92	3.89	-
54	FOOD STORES	180.34	185.22	203.16	200.82	-	5.78	5.88	6.47	6.52	-
541	Grocery stores	187.74	193.63	212.39	209.56	-	5.96	6.07	6.70	6.76	-
546	Retail bakeries	130.54	130.69	134.85	135.32	-	4.44	4.43	4.65	4.65	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	202.83	204.12	214.88	216.58	-	5.38	5.40	5.73	5.76	-
551, 2	New and used car dealers	242.65	244.44	255.94	258.34	-	6.27	6.30	6.70	6.71	-
553	Auto and home supply stores	196.10	198.29	211.23	211.82	-	4.83	4.86	5.19	5.23	-
554	Gasoline service stations	143.79	145.67	158.30	161.07	-	4.12	4.15	4.51	4.55	-
56	APPAREL AND ACCESSORY STORES	118.24	117.14	123.82	123.08	-	4.12	4.11	4.36	4.38	-
561	Men's and boys' clothing and furnishings	147.72	148.20	155.99	156.77	-	4.66	4.69	4.89	4.93	-
562	Women's ready-to-wear stores	104.12	103.25	109.89	108.79	-	3.80	3.81	4.07	4.09	-
565	Family clothing stores	111.50	111.95	117.30	115.06	-	3.94	3.97	4.25	4.23	-
566	Shoe stores	127.01	122.98	132.77	132.13	-	4.41	4.30	4.61	4.62	-
57	FURNITURE AND HOME FURNISHINGS STORES	184.98	186.74	196.42	199.28	-	5.27	5.29	5.71	5.71	-
571	Furniture and home furnishings	189.56	190.99	196.08	197.19	-	5.37	5.38	5.70	5.65	-
572	Household appliance stores	192.78	197.11	210.25	213.96	-	5.40	5.46	5.99	6.01	-
573	Radio, television, and music stores	168.26	169.44	187.71	194.94	-	4.92	4.94	5.57	5.70	-
58	EATING AND DRINKING PLACES ⁵	90.57	90.65	97.46	96.98	-	3.47	3.50	3.72	3.73	-
59	MISCELLANEOUS RETAIL	146.10	146.88	152.70	152.70	-	4.58	4.59	4.91	4.91	-
591	Drug stores and proprietary stores	127.60	130.28	130.79	129.92	-	4.17	4.23	4.51	4.48	-
594	Miscellaneous shopping goods stores	131.63	129.13	138.00	137.54	-	4.33	4.29	4.60	4.60	-
596	Nonstore retailers	180.90	183.16	194.97	192.14	-	5.40	5.34	5.82	5.77	-
598	Fuel and ice dealers	236.79	240.52	241.42	251.55	-	6.01	6.12	6.32	6.45	-
599	Retail stores, nec	151.87	152.88	163.51	164.01	-	4.52	4.55	4.94	4.97	-
-	FINANCE, INSURANCE, AND REAL ESTATE ⁶	193.67	196.38	211.91	214.17	218.04	5.35	5.41	5.87	5.90	5.99
60	BANKING	166.42	168.69	181.58	182.14	-	4.61	4.66	5.03	4.99	-
602	Commercial and stock savings banks	163.89	165.70	178.33	178.85	-	4.54	4.59	4.94	4.90	-
61	CREDIT AGENCIES OTHER THAN BANKS	175.48	175.48	188.03	189.64	-	4.73	4.73	5.18	5.21	-
612	Savings and loan associations	171.22	170.29	179.69	178.92	-	4.64	4.64	4.95	4.97	-
614	Personal credit institutions	165.35	167.07	182.43	184.47	-	4.53	4.54	5.11	5.11	-
63	INSURANCE CARRIERS	212.81	216.55	240.11	243.38	-	5.69	5.79	6.42	6.49	-
631	Life insurance	211.31	217.35	252.21	255.98	-	5.62	5.75	6.69	6.79	-
632	Medical service and health insurance	209.44	211.69	229.14	229.90	-	5.60	5.63	6.03	6.05	-
633	Fire, marine, and casualty insurance	213.28	216.97	233.95	235.42	-	5.78	5.88	6.34	6.38	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

**C-2. Gross hours and earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry—Continued**

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	40.0	40.2	39.4	39.6	-	-	-	-	-	
506	Electrical goods	39.0	39.4	38.9	38.9	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.5	38.7	38.5	38.5	-	-	-	-	-	
508	Machinery, equipment, and supplies	40.0	39.9	39.3	39.4	-	-	-	-	-	
509	Miscellaneous durable goods	39.3	39.4	38.2	38.6	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS ..	38.3	38.3	37.9	38.2	-	-	-	-	-	
511	Paper and paper products	36.2	36.5	36.5	36.3	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	37.6	37.6	37.7	37.5	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.9	37.2	37.0	37.4	-	-	-	-	-	
514	Groceries and related products	38.4	38.9	37.8	37.8	-	-	-	-	-	
516	Chemicals and allied products	39.7	39.8	39.5	39.5	-	-	-	-	-	
517	Petroleum and petroleum products	39.8	39.6	39.5	39.8	-	-	-	-	-	
518	Beer, wine, and distilled beverages	36.9	36.9	36.9	37.0	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.2	38.0	38.3	38.8	-	-	-	-	-	
52-59	RETAIL TRADE	30.4	30.4	30.1	30.0	30.0	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	37.3	37.1	37.2	37.0	-	-	-	-	-	
521	Lumber and other building materials	39.4	39.3	39.0	39.0	-	-	-	-	-	
525	Hardware stores	33.4	33.4	33.7	33.5	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	29.5	29.5	29.5	29.3	-	-	-	-	-	
531	Department stores	29.5	29.4	29.5	29.3	-	-	-	-	-	
533	Variety stores	29.7	29.8	29.5	29.1	-	-	-	-	-	
539	Misc. general merchandise stores	29.4	29.6	29.4	29.1	-	-	-	-	-	
54	FOOD STORES	31.2	31.5	31.4	30.8	-	-	-	-	-	
541	Grocery stores	31.5	31.9	31.7	31.0	-	-	-	-	-	
546	Retail bakeries	29.4	29.5	29.0	29.1	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.7	37.8	37.5	37.6	-	-	-	-	-	
551, 2	New and used car dealers	38.7	38.8	38.2	38.5	-	-	-	-	-	
553	Auto and home supply stores	40.6	40.8	40.7	40.5	-	-	-	-	-	
554	Gasoline service stations	34.9	35.1	35.1	35.4	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	28.7	28.5	28.4	28.1	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	31.7	31.6	31.9	31.8	-	-	-	-	-	
562	Women's ready-to-wear stores	27.4	27.1	27.0	26.6	-	-	-	-	-	
565	Family clothing stores	28.3	28.2	27.6	27.2	-	-	-	-	-	
566	Shoe stores	28.8	28.6	28.8	28.6	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES	35.1	35.3	34.4	34.9	-	-	-	-	-	
571	Furniture and home furnishings	35.3	35.5	34.4	34.9	-	-	-	-	-	
572	Household appliance stores	35.7	36.1	35.1	35.6	-	-	-	-	-	
573	Radio, television, and music stores	34.2	34.3	33.7	34.2	-	-	-	-	-	
58	EATING AND DRINKING PLACES	26.1	25.9	26.2	26.0	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	31.9	32.0	31.1	31.1	-	-	-	-	-	
591	Drug stores and proprietary stores	30.6	30.8	29.0	29.0	-	-	-	-	-	
594	Miscellaneous shopping goods stores	30.4	30.1	30.0	29.9	-	-	-	-	-	
596	Nonstore retailers	33.5	34.3	33.5	33.3	-	-	-	-	-	
598	Fuel and ice dealers	39.4	39.3	38.2	39.0	-	-	-	-	-	
599	Retail stores, nec	33.6	33.6	33.1	33.0	-	-	-	-	-	
-	FINANCE, INSURANCE, AND REAL ESTATE	36.2	36.3	36.1	36.3	36.4	-	-	-	-	
60	BANKING	36.1	36.2	36.1	36.5	-	-	-	-	-	
602	Commercial and stock savings banks	36.1	36.1	36.1	36.5	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	37.1	37.1	36.3	36.4	-	-	-	-	-	
612	Savings and loan associations	36.9	36.7	36.3	36.0	-	-	-	-	-	
614	Personal credit institutions	36.5	36.8	35.7	36.1	-	-	-	-	-	
63	INSURANCE CARRIERS	37.4	37.4	37.4	37.5	-	-	-	-	-	
631	Life insurance	37.6	37.8	37.7	37.7	-	-	-	-	-	
632	Medical service and health insurance	37.4	37.6	38.0	38.0	-	-	-	-	-	
633	Fire, marine, and casualty insurance	36.9	36.9	36.9	36.9	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
-	SERVICES	\$178.65	\$180.93	\$192.73	\$195.60	\$198.53	\$5.48	\$5.55	\$5.93	\$6.00	\$6.09
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	124.12	124.64	136.05	138.02	-	4.03	4.10	4.49	4.54	-
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	144.70	145.17	152.09	155.84	-	4.17	4.22	4.54	4.57	-
723	Beauty shops	122.89	125.45	129.17	130.07	-	3.99	4.06	4.32	4.35	-
73	BUSINESS SERVICES	180.05	182.56	199.47	200.12	-	5.54	5.60	6.10	6.12	-
731	Advertising	274.07	276.24	287.39	292.68	-	7.55	7.61	8.05	8.13	-
734	Services to buildings	128.31	130.62	142.78	144.16	-	4.70	4.82	5.23	5.30	-
737	Computer and data processing services	240.46	238.92	267.18	264.63	-	6.57	6.60	7.32	7.27	-
75	AUTO REPAIR, SERVICES, AND GARAGES	219.06	218.04	233.84	232.47	-	5.78	5.83	6.17	6.15	-
753	Automotive repair shops	240.34	239.85	257.13	256.74	-	6.10	6.15	6.61	6.60	-
76	MISCELLANEOUS REPAIR SERVICES	259.89	262.80	290.58	292.93	-	6.53	6.57	7.07	7.11	-
78	MOTION PICTURES	219.66	240.81	166.47	192.62	-	7.93	8.42	6.58	7.38	-
781	Motion picture production and services	417.96	447.35	378.49	418.03	-	10.80	11.50	9.68	10.61	-
79	AMUSEMENT AND RECREATION SERVICES	156.31	163.43	165.89	171.41	-	5.39	5.54	5.74	5.85	-
80	HEALTH SERVICES	173.18	175.36	190.82	191.62	-	5.28	5.33	5.80	5.86	-
801	Offices of physicians	176.68	180.38	194.35	197.88	-	5.47	5.55	5.98	6.07	-
802	Offices of dentists	149.12	151.15	162.73	165.53	-	5.16	5.23	5.73	5.87	-
805	Nursing and personal care facilities	119.42	121.52	130.71	129.44	-	3.89	3.92	4.23	4.23	-
806	Hospitals	191.98	193.69	211.76	212.89	-	5.63	5.68	6.21	6.28	-
81	LEGAL SERVICES	233.58	240.10	253.70	254.11	-	6.87	6.86	7.44	7.43	-
89	MISCELLANEOUS SERVICES	301.37	301.64	331.96	336.54	-	7.91	7.98	8.69	8.81	-
891	Engineering and architectural services	325.01	327.64	363.48	368.16	-	8.42	8.51	9.32	9.44	-
893	Accounting, auditing, and bookkeeping	259.08	256.43	278.63	277.50	-	6.80	6.82	7.43	7.40	-

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

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

³ 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.

⁴ 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.

⁵ Money payments only; tips, not included.

⁶ Data for nonoffice sales agents excluded from all series in this division.

* Not available.

p = preliminary.

NOTE: Data from April 1979 forward are subject to revision when more recent benchmark data are introduced. See "Benchmark adjustments" in the Explanatory notes of this publication.

**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				
		Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
-	SERVICES	32.6	32.6	32.5	32.6	32.6	-	-	-	-	-
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	30.8	30.4	30.3	30.4	-	-	-	-	-	
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	34.7	34.4	33.5	34.1	-	-	-	-	-	
723	Beauty shops	30.8	30.9	29.9	29.9	-	-	-	-	-	
73	BUSINESS SERVICES	32.5	32.6	32.7	32.7	-	-	-	-	-	
731	Advertising	36.3	36.3	35.7	36.0	-	-	-	-	-	
734	Services to buildings	27.3	27.1	27.3	27.2	-	-	-	-	-	
737	Computer and data processing services	36.6	36.2	36.5	36.4	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	37.9	37.4	37.9	37.8	-	-	-	-	-	
753	Automotive repair shops	39.4	39.0	38.9	38.9	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	39.8	40.0	41.1	41.2	-	-	-	-	-	
78	MOTION PICTURES	27.7	28.6	25.3	26.1	-	-	-	-	-	
781	Motion picture production and services	38.7	38.9	39.1	39.4	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	29.0	29.5	28.9	29.3	-	-	-	-	-	
80	HEALTH SERVICES	32.8	32.9	32.9	32.7	-	-	-	-	-	
801	Offices of physicians	32.3	32.5	32.5	32.6	-	-	-	-	-	
802	Offices of dentists	28.9	28.9	28.4	28.2	-	-	-	-	-	
805	Nursing and personal care facilities	30.7	31.0	30.9	30.6	-	-	-	-	-	
806	Hospitals	34.1	34.1	34.1	33.9	-	-	-	-	-	
81	LEGAL SERVICES	34.0	35.0	34.1	34.2	-	-	-	-	-	
89	MISCELLANEOUS SERVICES	38.1	37.8	38.2	38.2	-	-	-	-	-	
891	Engineering and architectural services	38.6	38.5	39.0	39.0	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	38.1	37.6	37.5	37.5	-	-	-	-	-	

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	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Executive Branch													
Total employment	2,720.3	2,770.2	2,783.0	2,789.6	2,697.8	2,702.7	2,707.0	2,717.2	2,709.1	2,749.5	2,815.1	3,049.2	2,908.2
Average weekly hours	39.4	39.4	39.8	39.5	39.4	39.3	39.7	39.5	39.3	39.6	38.9	37.7	36.6
Average overtime hours	1.0	1.0	1.2	1.2	1.4	1.4	1.3	1.4	1.1	1.2	1.2	1.1	1.0
Indexes (1967=100):													
Average weekly earnings	238.9	238.6	241.3	242.5	244.6	254.5	259.5	261.5	259.6	261.1	254.8	244.4	236.8
Average hourly earnings	238.9	238.6	238.9	241.9	244.6	255.1	257.6	260.8	260.3	259.7	258.1	255.4	254.9
Department of Defense													
Total employment	896.6	906.6	908.5	908.5	887.2	887.8	888.0	889.0	885.1	885.4	886.6	888.5	895.1
Average weekly hours	39.9	39.9	40.1	40.0	40.0	38.9	40.0	40.0	39.8	39.9	39.8	39.8	39.8
Average overtime hours .....	.8	.8	.8	.9	1.2	.9	1.1	1.0	.8	.9	1.0	.8	.9
Indexes (1967=100):													
Average weekly earnings	235.2	233.6	233.4	234.5	238.0	240.4	252.3	254.0	249.7	251.7	251.9	251.9	249.2
Average hourly earnings	237.6	236.0	234.6	236.2	239.8	249.0	254.2	255.9	252.9	254.2	255.0	255.0	252.3
Postal Service													
Total employment	659.5	663.2	665.4	665.4	659.0	653.7	673.0	673.5	655.9	656.7	655.7	658.2	659.3
Average weekly hours	39.8	39.6	40.6	39.9	40.0	41.6	41.1	40.7	40.6	41.4	40.6	40.4	40.0
Average overtime hours	1.3	1.3	1.8	1.5	1.9	2.3	2.1	2.7	2.1	2.2	2.1	2.0	1.7
Indexes (1967=100):													
Average weekly earnings	268.1	274.0	281.2	283.0	286.2	300.6	296.1	305.7	304.0	311.6	305.6	303.8	299.5
Average hourly earnings	260.1	267.1	267.4	273.8	276.2	279.0	278.0	289.9	289.0	290.5	290.5	290.2	289.0
Other Agencies													
Total employment	1,164.2	1,200.4	1,209.1	1,215.7	1,151.6	1,161.2	1,146.0	1,154.7	1,168.1	1,207.4	1,272.8	1,502.5	1,353.8
Average weekly hours	38.8	38.8	39.2	38.9	38.7	38.7	38.5	38.3	38.2	38.3	37.3	34.9	32.9
Average overtime hours	1.1	1.0	1.2	1.2	1.4	1.2	1.0	.9	.9	.9	.8	.8	.8
Indexes (1967=100):													
Average weekly earnings	226.0	223.3	226.6	227.1	228.4	243.2	244.4	243.6	244.2	241.9	231.3	211.1	200.2
Average hourly earnings	226.0	223.3	224.3	226.5	229.0	243.8	246.3	246.8	248.0	245.0	240.6	234.7	236.1

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

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

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

Major industry group	Average hourly earnings excluding overtime ¹				
	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
MANUFACTURING	\$6.54	\$6.59	\$7.16	\$7.23	\$7.29
DURABLE GOODS	6.96	7.00	7.66	7.73	7.80
Lumber and wood products	5.96	5.97	6.54	6.50	-
Furniture and fixtures	5.03	5.06	5.45	5.46	-
Stone, clay, and glass products	6.64	6.72	7.33	7.37	-
Primary metal industries	8.72	8.87	9.66	9.77	-
Fabricated metal products	6.70	6.73	7.36	7.41	-
Machinery, except electrical	7.11	7.15	7.96	8.04	-
Electric and electronic equipment	6.27	6.28	6.94	7.00	-
Transportation equipment	8.32	8.38	9.18	9.33	-
Instruments and related products	6.12	6.17	6.72	6.77	-
Miscellaneous manufacturing industries	4.94	4.96	5.37	5.41	-
NONDURABLE GOODS	5.90	5.96	6.44	6.48	6.53
Food and kindred products	6.03	6.17	6.57	6.63	-
Tobacco manufactures	6.20	6.81	7.24	7.30	-
Textile mill products	4.62	4.64	5.05	5.06	-
Apparel and other textile products	4.24	4.25	4.62	4.66	-
Paper and allied products	6.95	7.02	7.64	7.68	-
Printing and publishing	6.83	6.86	7.46	7.48	-
Chemicals and allied products	7.51	7.56	8.15	8.21	-
Petroleum and coal products	9.02	9.07	9.89	9.90	-
Rubber and misc. plastics products	5.87	5.91	6.39	6.46	-
Leather and leather products	4.22	4.23	4.52	4.55	-

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 workers¹
on private nonagricultural payrolls by industry division, in current and 1967 dollars**

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
				Worker with no dependents			Married worker with 3 dependents		
	Oct. 1979	Sept. 1980	Oct. 1980p	Oct. 1979	Sept. 1980	Oct. 1980p	Oct. 1979	Sept. 1980	Oct. 1980p
TOTAL PRIVATE:									
Current dollars	\$225.27	\$240.04	\$242.16	\$181.90	\$192.28	\$193.76	\$198.94	\$210.15	\$211.76
1967 dollars	95.85	95.25	95.30	80.63	76.33	76.25	88.18	83.43	83.34
MINING:									
Current dollars	375.38	405.42	407.96	281.72	299.70	301.23	310.75	332.02	333.79
1967 dollars	166.39	160.94	160.55	124.88	118.98	118.55	137.74	131.81	131.36
CONSTRUCTION:									
Current dollars	358.15	386.20	387.07	270.96	288.20	288.72	298.19	318.59	319.20
1967 dollars	158.75	153.31	152.33	120.11	114.41	113.62	132.18	126.47	125.62
MANUFACTURING:									
Current dollars	274.16	295.71	298.10	215.97	230.60	232.22	236.04	252.39	254.20
1967 dollars	121.52	117.39	117.32	95.73	91.54	91.39	104.63	100.19	100.04
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	337.20	358.89	365.24	257.58	271.43	275.49	282.93	298.73	303.36
1967 dollars	149.47	142.47	143.74	114.18	107.75	108.42	125.41	118.59	119.39
WHOLESALE AND RETAIL TRADE:									
Current dollars	166.86	178.48	179.12	139.02	147.72	148.20	156.37	164.20	164.63
1967 dollars	73.96	70.85	70.49	61.62	58.64	58.32	69.31	65.18	64.79
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	193.67	211.91	214.17	158.88	172.17	173.82	174.39	188.59	190.35
1967 dollars	85.85	84.12	84.29	70.43	68.35	68.41	77.30	74.87	74.91
SERVICES:									
Current dollars	178.65	192.73	195.60	147.85	158.19	160.28	164.32	173.66	175.89
1967 dollars	79.19	76.51	76.98	65.54	62.80	63.08	72.84	68.94	69.22
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	225.6	251.9	254.1						

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

² 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.

p=preliminary (applicable to earnings data only).

ESTABLISHMENT DATA HOURS AND EARNINGS

C-6. Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group

[1967=100]

Industry division and group	Cct. 1979	Nov. 1979	Sept. 1980	Oct. 1980P	Nov. 1980P
	Hours				
TOTAL PRIVATE	127.4	127.3	125.5	125.6	126.0
GOODS-PRODUCING	112.1	110.4	104.9	105.0	104.8
MINING	161.3	161.4	167.6	168.4	169.3
CONSTRUCTION	141.4	133.6	136.6	136.5	130.0
MANUFACTURING	105.2	104.5	97.1	97.2	98.1
DURABLE GOODS	108.2	107.3	96.8	97.5	98.9
Lumber and wood products	117.6	110.7	100.6	99.5	98.6
Furniture and fixtures	111.9	112.0	99.8	100.8	101.5
Stone, clay, and glass products	113.8	112.1	102.0	102.6	103.1
Primary metal industries	98.5	93.3	79.4	80.4	83.1
Fabricated metal products	107.1	107.2	95.2	96.0	97.3
Machinery, except electrical	115.0	115.8	110.2	109.5	111.0
Electric and electronic equipment	110.3	111.6	101.8	102.9	105.1
Transportation equipment	100.3	96.9	83.3	85.7	86.6
Instruments and related products	127.8	129.4	123.5	124.0	127.1
Miscellaneous manufacturing industries	103.7	103.0	92.7	92.2	92.7
NONDURABLE GOODS	100.8	100.3	97.7	96.8	97.0
Food and kindred products	102.3	99.1	104.2	97.8	94.8
Tobacco manufactures	85.4	73.3	80.7	85.7	85.4
Textile mill products	90.8	92.2	85.0	85.4	86.4
Apparel and other textile products	89.9	89.3	88.4	88.8	89.2
Paper and allied products	102.2	102.4	97.4	97.5	99.3
Printing and publishing	104.9	106.9	104.4	104.2	105.6
Chemicals and allied products	107.4	108.4	103.9	103.8	104.5
Petroleum and coal products	125.7	126.6	120.4	121.9	121.5
Rubber and misc. plastics products	148.4	146.7	131.4	134.4	137.4
Leather and leather products	66.3	66.5	64.0	63.8	63.6
SERVICE-PRODUCING	138.1	139.1	139.8	139.9	140.7
TRANSPORTATION AND PUBLIC UTILITIES	116.4	117.2	113.8	113.8	113.9
WHOLESALE AND RETAIL TRADE	131.6	133.6	131.5	131.4	132.9
WHOLESALE TRADE	135.1	135.6	133.5	134.5	134.5
RETAIL TRADE	130.3	132.8	130.7	130.1	132.3
FINANCE, INSURANCE, AND REAL ESTATE	146.7	147.5	151.0	151.6	152.5
SERVICES	154.4	154.5	159.9	160.2	160.3

¹ 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 workers¹ on private nonagricultural payrolls by industry division and major manufacturing group—Continued

[1967=100]

Industry division and group	Oct. 1979	Nov. 1979	Sept. 1980	Oct. 1980 P	Nov. 1980 P
	Payrolls				
TOTAL PRIVATE	299.9	301.3	318.2	321.1	324.6
GOODS-PRODUCING	273.9	270.7	279.0	281.2	282.1
MINING	434.6	441.8	490.0	496.6	510.4
CONSTRUCTION	326.7	309.2	338.5	339.7	322.8
MANUFACTURING	254.0	254.1	255.4	257.7	262.7
DURABLE GOODS	261.8	261.1	256.1	260.5	266.9
Lumber and wood products	309.9	290.9	289.4	284.3	282.5
Furniture and fixtures	249.6	251.1	239.5	242.4	245.7
Stone, clay, and glass products	282.9	281.4	278.2	281.6	286.2
Primary metal industries	257.6	258.8	237.1	242.7	254.9
Fabricated metal products	251.2	252.4	243.5	247.0	253.2
Machinery, except electrical	268.4	272.4	286.2	286.5	293.8
Electric and electronic equipment	258.1	262.2	262.1	266.9	275.2
Transportation equipment	254.0	245.9	231.8	243.1	246.7
Instruments and related products	283.6	290.3	299.7	302.9	313.2
Miscellaneous manufacturing industries	225.2	224.9	217.6	217.9	220.9
NONDURABLE GOODS	240.6	242.2	254.2	253.0	255.6
Food and kindred products	246.2	244.2	273.7	257.9	254.4
Tobacco manufactures	238.2	225.2	263.9	285.0	291.2
Textile mill products	213.2	218.1	216.4	218.1	221.9
Apparel and other textile products	190.9	190.1	204.6	207.0	208.3
Paper and allied products	261.7	264.8	273.4	274.4	280.3
Printing and publishing	227.2	232.5	246.3	246.0	250.1
Chemicals and allied products	270.8	275.4	283.1	285.1	289.5
Petroleum and coal products	332.9	338.2	347.8	353.0	357.2
Rubber and misc. plastics products	330.7	327.9	317.4	328.5	340.0
Leather and leather products	138.2	139.4	142.8	143.3	143.6
SERVICE-PRODUCING	322.4	327.7	351.8	355.5	361.3
TRANSPORTATION AND PUBLIC UTILITIES	303.3	308.5	317.8	323.5	325.9
WHOLESALE AND RETAIL TRADE	300.7	307.1	324.2	325.4	331.9
WHOLESALE TRADE	306.1	310.1	328.4	331.6	335.2
RETAIL TRADE	297.8	305.4	321.8	322.0	330.1
FINANCE, INSURANCE, AND REAL ESTATE	304.1	308.7	342.9	346.3	353.7
SERVICES	369.9	374.2	414.3	420.0	426.4

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED HOURS**

**C-7. Average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls
by industry division and major manufacturing group, seasonally adjusted**

Industry	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. p	Nov. p
TOTAL PRIVATE	35.6	35.7	35.6	35.5	35.4	35.3	35.1	35.0	34.9	35.1	35.2	35.2	35.3
MINING ²	43.6	43.9	43.4	43.2	43.4	42.8	42.7	43.2	41.9	43.1	43.5	43.4	43.3
CONSTRUCTION	37.0	37.2	37.3	37.1	36.6	36.7	36.8	37.1	36.8	36.5	37.4	36.9	37.2
MANUFACTURING	40.1	40.2	40.3	40.1	39.8	39.8	39.3	39.1	39.0	39.4	39.6	39.6	39.7
<i>Overtime hours</i>	3.3	3.2	3.2	3.0	3.1	3.0	2.6	2.4	2.5	2.7	2.7	2.8	2.9
DURABLE GOODS	40.6	40.7	40.8	40.6	40.3	40.3	39.7	39.5	39.4	39.9	40.1	40.1	40.3
<i>Overtime hours</i>	3.3	3.2	3.3	3.1	3.2	3.0	2.5	2.4	2.4	2.6	2.7	2.8	2.9
Lumber and wood products	38.9	39.0	39.4	39.1	38.7	37.3	37.5	37.6	38.1	38.9	38.8	38.5	39.0
Furniture and fixtures	38.9	38.9	39.2	39.0	38.5	38.5	37.6	37.0	36.6	37.4	38.0	37.9	38.1
Stone, clay, and glass products	41.4	41.5	41.4	41.2	40.9	40.6	40.3	40.4	40.2	40.3	40.9	40.9	41.1
Primary metal industries	40.8	40.7	40.8	40.8	40.7	40.6	39.2	38.8	38.6	39.2	40.0	40.4	41.0
Fabricated metal products	40.7	40.9	40.9	40.8	40.7	40.8	39.9	39.7	39.6	40.1	40.4	40.3	40.4
Machinery, except electrical	41.5	41.5	41.6	41.5	41.3	41.5	41.0	40.7	40.6	40.8	40.9	40.7	40.7
Electric and electronic equipment	40.4	40.5	40.5	40.3	40.0	39.9	39.5	39.2	39.0	39.4	39.5	39.8	39.9
Transportation equipment	40.5	40.9	40.9	40.8	40.4	40.5	39.7	39.5	39.6	40.9	40.6	40.8	40.9
Instruments and related products	41.0	41.0	41.4	40.9	40.4	40.7	40.3	40.4	40.1	40.1	40.1	40.2	40.5
Miscellaneous manufacturing ind	38.9	39.0	39.2	39.1	38.6	38.5	38.3	38.2	38.3	38.6	38.9	38.6	38.5
NONDURABLE GOODS	39.4	39.4	39.5	39.4	39.0	39.1	38.9	38.6	38.5	38.7	38.8	39.0	38.9
<i>Overtime hours</i>	3.2	3.1	3.1	2.9	3.0	3.0	2.6	2.5	2.6	2.8	2.7	2.8	2.9
Food and kindred products	39.9	39.5	39.8	39.7	39.3	39.6	39.9	39.6	39.7	39.8	39.7	39.6	39.6
Tobacco manufactures	37.8	38.5	38.5	37.9	37.7	38.2	38.2	37.3	38.5	37.3	37.5	39.5	39.2
Textile mill products	41.0	41.0	41.5	41.1	40.8	40.3	39.7	39.1	38.8	39.2	39.7	39.8	39.8
Apparel and other textile products	35.3	35.6	36.0	35.9	35.3	35.8	35.3	35.2	35.1	35.1	35.1	35.3	35.0
Paper and allied products	42.7	42.8	43.0	42.9	42.6	42.5	41.7	41.4	41.4	41.8	42.2	42.3	42.3
Printing and publishing	37.5	37.4	37.8	37.4	37.2	37.2	37.1	36.8	36.9	37.1	36.9	37.0	36.7
Chemicals and allied products	42.0	41.8	42.0	41.9	41.8	41.5	41.3	41.1	40.8	41.0	41.3	41.4	41.5
Petroleum and coal products	44.4	43.4	36.9	40.7	39.7	41.1	42.5	42.3	42.2	42.2	42.7	43.5	43.8
Rubber and misc. plastics products	40.0	40.0	40.7	40.0	39.9	40.1	39.3	39.2	39.0	40.2	40.1	40.3	40.8
Leather and leather products	36.6	37.0	37.2	37.2	36.9	37.3	36.7	36.7	36.1	36.5	36.2	36.1	35.9
TRANSPORTATION AND PUBLIC UTILITIES ²	40.2	40.0	39.5	39.4	39.5	39.5	39.3	39.6	39.9	39.7	39.7	39.7	39.7
WHOLESALE AND RETAIL TRADE	32.6	32.6	32.6	32.4	32.3	32.0	32.1	31.9	31.8	32.0	32.1	32.2	32.2
WHOLESALE TRADE	38.9	38.9	38.9	38.8	38.5	38.5	38.6	38.0	38.0	38.2	38.5	38.4	38.6
RETAIL TRADE	30.6	30.6	30.6	30.4	30.3	30.0	30.1	30.0	29.8	30.1	30.1	30.2	30.2
FINANCE, INSURANCE, AND REAL ESTATE ²	36.3	36.4	36.2	36.3	36.3	36.2	36.1	36.4	36.2	36.3	36.1	36.3	36.4
SERVICES	32.7	32.8	32.7	32.7	32.7	32.6	32.5	32.6	32.6	32.6	32.5	32.6	32.7

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

² See footnote 1, table B-5.

p=preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

[1967=100]

Industry division and group	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. P	Nov. P
TOTAL PRIVATE	126.4	126.8	127.1	126.9	126.0	124.8	123.4	122.5	121.9	123.0	123.8	124.3	125.1
GOODS-PRODUCING	108.7	109.4	111.1	109.1	107.3	105.2	102.2	100.3	98.5	100.0	101.6	102.1	103.2
MINING	160.8	162.5	162.0	162.1	162.9	161.7	163.2	166.4	158.7	162.4	166.7	167.8	168.8
CONSTRUCTION	129.7	132.8	137.7	134.7	126.9	124.7	124.3	123.7	120.6	120.5	124.7	124.1	126.1
MANUFACTURING	103.2	103.5	103.4	102.8	101.8	99.8	96.1	93.8	92.5	94.2	95.2	95.9	96.9
DURABLE GOODS	106.0	106.4	106.0	105.8	105.0	101.6	96.6	94.0	92.4	94.1	95.6	96.4	97.6
Lumber and wood products	111.0	109.4	109.8	108.9	106.5	95.3	90.4	89.6	91.5	95.3	96.8	96.9	99.0
Furniture and fixtures	109.4	109.1	109.7	108.9	106.9	106.1	99.0	94.6	91.0	94.8	98.4	98.2	99.2
Stone, clay, and glass products	110.1	110.4	110.3	109.6	108.0	103.5	99.4	96.7	95.1	96.5	99.3	99.7	101.2
Primary metal industries	94.1	92.9	92.7	92.4	91.8	89.9	82.4	77.4	73.4	75.4	78.3	81.1	83.9
Fabricated metal products	105.6	105.7	104.8	104.9	104.6	102.1	95.3	92.5	89.9	92.3	94.5	94.9	95.8
Machinery, except electrical	114.9	114.4	118.5	117.5	116.9	116.1	114.1	110.8	108.8	108.6	110.1	110.1	110.1
Electric and electronic equipment	109.2	110.4	110.8	109.8	109.4	108.1	103.8	100.1	98.5	99.8	100.5	102.0	103.0
Transportation equipment	95.5	98.2	91.7	93.8	93.0	85.0	79.1	79.6	79.8	82.4	82.5	84.1	85.3
Instruments and related products	128.2	128.8	130.0	129.1	128.7	128.4	126.0	125.1	123.8	124.1	123.8	124.2	125.7
Miscellaneous manufacturing ind	98.6	99.4	99.3	98.2	96.9	95.8	91.6	88.5	89.0	88.5	88.9	87.7	88.6
NONDURABLE GOODS	99.1	99.2	99.7	98.4	97.3	97.2	95.4	93.5	92.5	94.3	94.7	95.2	95.7
Food and kindred products	97.5	97.6	96.9	96.2	94.6	94.4	95.1	93.2	93.9	94.8	93.2	93.1	93.3
Tobacco manufactures	65.0	70.3	71.7	70.5	70.2	72.4	73.8	72.1	73.0	68.1	71.1	74.9	75.7
Textile mill products	91.2	91.5	92.7	91.6	91.0	89.4	86.4	82.2	80.5	83.3	84.5	85.2	85.4
Apparel and other textile products	87.8	88.5	90.3	90.5	89.2	89.3	87.2	86.7	86.1	87.2	87.3	87.4	87.5
Paper and allied products	102.0	102.1	102.9	102.5	101.6	100.4	96.7	94.7	93.6	95.0	96.5	97.3	98.8
Printing and publishing	105.6	105.2	106.9	105.9	105.1	104.8	103.6	103.1	102.9	103.8	103.8	103.9	104.2
Chemicals and allied products	108.5	108.2	109.0	108.4	108.0	107.4	106.0	104.4	102.1	102.4	103.9	104.1	104.7
Petroleum and coal products	124.4	122.4	104.9	75.7	71.4	91.6	113.8	113.3	113.9	114.8	116.1	118.3	119.1
Rubber and misc. plastics products	144.9	143.4	145.7	142.2	141.4	139.9	128.5	123.6	119.2	127.5	130.1	132.5	135.6
Leather and leather products	66.0	66.4	66.4	66.4	65.6	66.0	63.6	63.3	59.5	63.9	63.7	63.5	63.2
SERVICE-PRODUCING	138.7	138.8	138.9	139.2	139.0	138.3	138.1	137.9	138.2	139.0	139.2	139.7	140.3
TRANSPORTATION AND PUBLIC UTILITIES	116.6	115.9	114.0	113.7	113.9	113.5	112.6	112.6	112.8	112.6	112.7	113.1	113.3
WHOLESALE AND RETAIL TRADE	132.3	132.2	132.6	132.7	131.8	130.4	130.3	129.1	128.9	130.4	130.9	131.3	131.6
WHOLESALE TRADE	135.1	135.0	135.4	135.6	134.5	134.1	133.7	130.8	131.0	131.9	133.3	133.2	134.0
RETAIL TRADE	131.2	131.0	131.5	131.5	130.7	128.9	129.0	128.5	128.0	129.8	130.0	130.6	130.6
FINANCE, INSURANCE, AND REAL ESTATE	147.7	148.2	148.2	149.3	149.6	149.4	149.7	151.2	151.1	151.8	151.1	152.0	152.9
SERVICES	155.0	156.0	156.4	157.2	157.6	157.6	157.4	157.8	159.1	159.4	159.3	159.9	161.3

¹ 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 workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1979		1980										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct. ^p	Nov.
Hourly Earnings Index ² (1967=100)													
TOTAL PRIVATE (In current dollars)	237.3	239.4	240.3	242.4	245.2	246.2	248.3	250.9	252.1	254.0	255.4	257.7	260.3
MINING	272.0	274.6	277.0	278.5	280.9	283.7	284.2	286.3	285.3	288.9	290.4	294.9	301.1
CONSTRUCTION	226.5	228.1	225.8	229.8	232.2	233.0	234.2	235.3	236.7	239.0	239.3	241.2	242.3
MANUFACTURING	241.9	244.1	245.2	247.8	250.2	252.4	255.0	258.3	260.6	262.4	264.5	266.4	268.3
TRANSPORTATION AND PUBLIC UTILITIES	258.7	260.1	260.8	262.4	265.9	267.2	268.7	270.6	272.8	273.2	274.0	279.9	282.0
WHOLESALE AND RETAIL TRADE	229.7	231.4	234.2	235.2	237.8	238.0	239.8	241.8	243.5	245.3	246.5	247.4	250.2
FINANCE, INSURANCE, AND REAL ESTATE	215.7	217.9	218.4	221.1	225.7	224.9	226.3	230.2	229.0	232.7	233.1	234.2	238.5
SERVICES	234.9	237.8	237.7	239.7	242.7	243.0	245.7	248.4	247.6	249.8	251.7	254.3	258.0
TOTAL PRIVATE (In 1967 dollars) ³	104.1	103.8	102.7	102.2	102.0	101.4	101.4	101.5	102.0	102.0	101.5	101.4	-
Average hourly earnings													
TOTAL PRIVATE	\$6.34	\$6.39	\$6.41	\$6.45	\$6.51	\$6.54	\$6.57	\$6.62	\$6.67	\$6.71	\$6.77	\$6.82	\$6.90
MINING ⁴	8.73	8.75	8.88	8.90	8.95	9.10	9.08	9.16	9.08	9.18	9.32	9.40	9.61
CONSTRUCTION	9.48	9.55	9.46	9.64	9.75	9.79	9.83	9.89	9.94	10.04	10.05	10.13	10.18
MANUFACTURING	6.87	6.91	6.93	6.99	7.06	7.11	7.15	7.22	7.30	7.36	7.42	7.49	7.56
TRANSPORTATION AND PUBLIC UTILITIES ⁴	8.51	8.54	8.55	8.58	8.62	8.71	8.72	8.75	8.90	8.95	9.04	9.20	9.25
WHOLESALE AND RETAIL TRADE	5.20	5.23	5.28	5.31	5.37	5.38	5.42	5.45	5.50	5.53	5.56	5.58	5.65
FINANCE, INSURANCE, AND REAL ESTATE ⁴	5.41	5.48	5.53	5.60	5.68	5.68	5.70	5.77	5.77	5.82	5.87	5.90	5.99
SERVICES	5.54	5.60	5.60	5.64	5.72	5.72	5.78	5.86	5.87	5.91	5.93	5.99	6.07
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	225.70	228.12	228.20	228.98	230.45	230.86	230.61	231.70	232.78	235.52	238.30	240.06	243.57
1967 dollars ³	99.03	98.88	97.52	96.53	95.82	95.08	94.16	93.77	94.17	94.62	94.75	94.51	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{3, 5}	87.44	87.17	85.97	85.06	84.35	83.68	82.89	82.48	82.78	83.05	83.03	82.74	-

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

² 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.

³ The CPI-W is used to deflate these series to 1967 dollars.

⁴ See footnote 1, table B-5.

⁵ See footnote 2, table C-5.

p=preliminary.

C-10. Hours of wage and salary workers¹ in nonagricultural establishments by industry division

Industry division	Millions of hours (Annual rate) ²			Percent change		
	SEPTEMBER 1980	OCTOBER p1980	NOVEMBER p1980	Nov. 1979 to Nov. 1980	Sept. 1980 to Oct. 1980	Oct. 1980 to Nov. 1980
TOTAL	169,066	169,859	169,613	-0.7	0.5	-0.1
PRIVATE SECTOR	137,635	137,953	139,063	-0.5	0.2	0.8
MINING	2,337	2,267	2,348	6.0	-3.0	3.6
CONSTRUCTION	8,619	8,516	8,653	-1.2	-1.2	1.6
MANUFACTURING	41,307	41,624	41,946	-4.0	0.8	0.8
DURABLE GOODS	24,992	25,229	25,477	-5.0	0.9	1.0
NONDURABLE GOODS	16,315	16,395	16,468	-2.4	0.5	0.4
TRANSPORTATION AND PUBLIC UTILITIES	10,560	10,615	10,652	-2.5	0.5	0.4
WHOLESALE AND RETAIL TRADE	34,560	34,661	34,867	-0.3	0.3	0.6
FINANCE, INSURANCE, AND REAL ESTATE	9,790	9,826	9,903	3.4	0.4	0.8
SERVICES	30,462	30,443	30,694	3.8	-0.1	0.8
GOVERNMENT	31,431	31,906	31,549	-1.5	1.5	-4.3

¹ 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.

² "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										
			1978				1979				1980		
	1978	1979	I	II	III	IV	I	II	III	IV	I	II	III
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	119.3	118.3	118.5	119.1	119.7	119.8	118.9	118.3	117.8	117.7	117.7	116.8	r116.9
Output	140.7	144.1	136.9	140.3	141.8	144.0	144.4	143.4	143.8	144.8	144.8	140.3	r140.0
Hours	118.0	121.8	115.4	117.8	118.4	120.2	121.5	121.3	122.0	123.0	123.1	120.0	119.7
Compensation per hour	231.4	253.1	224.6	228.8	233.7	238.4	244.8	250.4	255.7	260.3	267.6	275.3	r281.1
Real compensation per hour	118.4	116.4	118.8	118.3	118.2	117.9	117.9	117.0	115.8	114.2	112.9	112.5	r112.9
Unit labor costs	194.0	214.0	189.4	192.1	195.2	199.0	205.9	211.7	217.0	221.1	227.5	235.6	r240.4
Unit nonlabor payments	174.3	184.4	164.8	173.9	177.0	181.3	180.8	183.7	185.6	188.3	190.0	192.3	r200.0
Implicit price deflator	187.2	203.8	180.9	185.8	188.9	192.9	197.2	202.0	206.1	209.7	214.5	220.6	r226.4
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	116.9	115.7	116.2	116.7	117.4	117.6	116.6	115.4	115.0	115.2	114.9	113.8	r114.3
Output	141.5	144.9	137.3	141.1	142.7	145.0	145.5	144.2	144.6	145.5	145.6	140.9	r140.9
Hours	121.0	125.3	118.2	120.9	121.6	123.3	124.8	124.9	125.7	126.2	126.7	123.8	123.3
Compensation per hour	227.5	247.9	221.0	224.9	229.5	234.4	240.2	244.9	249.9	255.6	262.2	269.0	r274.7
Real compensation per hour	116.4	114.0	116.9	116.3	116.1	115.9	115.7	114.4	113.2	112.1	110.6	109.9	r110.3
Unit labor costs	194.6	214.4	190.2	192.8	195.6	199.3	206.0	212.1	217.3	221.8	228.2	236.3	r240.5
Unit nonlabor payments	169.9	178.6	161.1	169.1	173.0	176.1	174.3	177.6	180.5	182.5	185.9	190.0	r197.5
Implicit price deflator	186.1	202.1	180.2	184.7	187.8	191.4	195.1	200.3	204.7	208.4	213.7	220.4	r225.8
MANUFACTURING:													
Output per hour of all persons	128.2	129.2	126.4	127.7	129.3	129.4	128.4	128.7	129.5	129.1	128.2	126.7	r126.4
Output	134.5	138.6	130.3	133.6	135.8	138.1	139.4	138.5	138.4	138.0	137.4	129.2	r126.3
Hours	104.9	107.3	103.1	104.6	105.0	106.7	108.6	107.6	106.9	106.9	107.2	102.0	r99.9
Compensation per hour	229.9	250.8	223.9	227.1	231.7	236.6	242.3	248.0	252.7	258.0	264.6	274.1	r282.1
Real compensation per hour	117.6	115.3	118.4	117.5	117.2	117.0	116.7	115.9	114.4	113.2	111.6	112.0	113.2
Unit labor costs	179.4	194.1	177.2	177.8	179.1	182.8	188.8	192.6	195.1	199.9	206.4	216.4	r223.1
DURABLE GOODS													
Output per hour of all persons	121.4	121.3	119.6	121.4	122.5	122.4	120.9	121.3	121.0	120.8	119.3	118.3	r117.4
Output	129.6	133.8	124.6	128.5	131.3	134.1	135.4	134.1	133.2	132.6	131.4	122.1	r118.3
Hours	106.8	110.3	104.2	105.9	107.2	109.6	112.0	110.6	110.0	109.8	110.1	103.2	r100.7
Compensation per hour	231.1	251.8	225.4	228.5	232.7	237.7	243.4	249.0	253.6	258.5	266.3	276.5	r284.6
Real compensation per hour	118.3	115.8	119.2	118.1	117.7	117.6	117.2	116.3	114.8	113.4	112.3	112.9	r114.3
Unit labor costs	190.4	207.5	188.5	188.2	189.9	194.2	201.3	205.3	209.5	214.1	223.2	233.7	r242.3
NONDURABLE GOODS													
Output per hour of all persons	139.3	142.4	137.6	138.1	140.6	141.2	141.0	141.2	143.9	143.1	143.1	140.4	r141.2
Output	142.3	146.3	139.6	141.8	143.2	144.5	145.9	145.7	147.0	146.7	147.1	140.7	r139.4
Hours	102.1	102.7	101.5	102.7	101.9	102.4	103.4	103.2	102.2	102.5	102.8	100.2	98.7
Compensation per hour	226.7	247.2	220.6	224.2	228.7	232.9	238.6	244.5	249.3	255.4	259.6	269.1	r277.1
Real compensation per hour	116.0	113.7	116.7	115.9	115.7	115.2	114.9	114.3	112.9	112.0	109.5	109.9	r111.2
Unit labor costs	162.7	173.5	160.4	162.3	162.7	164.9	169.2	173.2	173.3	178.5	181.4	191.7	r196.2
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	118.0	117.5	116.9	118.0	118.5	118.8	118.1	117.3	117.2	117.1	117.1	116.5	p117.9
Output	150.0	154.7	144.7	149.7	151.4	154.2	155.1	154.1	154.3	155.1	155.4	150.7	p150.9
Hours	127.1	131.6	123.8	126.9	127.8	129.8	131.4	131.4	131.7	132.4	132.7	129.4	p128.1
Compensation per hour	225.0	244.9	219.0	222.6	226.9	231.3	237.3	242.1	247.1	252.1	258.8	265.7	p271.8
Real compensation per hour	115.2	112.7	115.8	115.1	114.8	114.4	114.3	113.1	111.9	110.6	109.2	108.5	p109.1
Total unit costs	193.3	210.4	190.8	191.6	194.0	196.8	202.3	208.0	213.2	218.0	224.3	233.6	p238.2
Unit labor costs	190.6	208.4	187.3	188.7	191.5	194.8	201.0	206.4	210.8	215.3	221.1	228.0	p230.7
Unit nonlabor costs	201.8	216.6	201.5	200.8	201.6	203.1	206.5	213.2	220.5	226.1	234.4	250.8	p261.7
Unit profits	127.2	127.8	107.1	129.2	132.7	138.7	130.3	129.2	127.5	124.0	120.5	108.3	p115.1
Implicit price deflator	183.5	198.1	178.3	182.3	184.9	188.2	191.6	196.3	200.4	204.0	208.9	215.0	p219.9

p=preliminary.
r=revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	I 1979 to	II 1979 to	III 1979 to	IV 1979 to	I 1980 to	II 1980 to	II 1978 to	III 1978 to	IV 1978 to	I 1979 to	II 1979 to	III 1979 to
	II 1979	III 1979	IV 1979	I 1980	II 1980	III 1980	II 1978	III 1978	IV 1978	I 1980	II 1980	III 1980
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	-2.0	-1.4	-0.3	-0.3	-2.7	r0.3	-0.7	-1.6	-1.7	-1.0	-1.2	r-0.8
Output	-2.9	1.1	2.8	0.2	-12.0	r-0.8	2.2	1.4	0.5	0.3	-2.2	r-2.6
Hours	-0.9	2.5	3.1	0.5	-9.6	r-1.0	2.9	3.0	2.3	1.3	-1.0	-1.9
Compensation per hour	9.5	8.7	7.5	11.7	12.0	r8.7	9.4	9.4	9.2	9.3	9.9	r9.9
Real compensation per hour	-2.9	-4.1	-5.4	-4.5	-1.5	r1.5	-1.1	-2.1	-3.2	-4.2	-3.9	r-2.5
Unit labor costs	11.8	10.3	7.8	12.1	15.1	r8.4	10.2	11.2	11.1	10.5	11.3	r10.8
Unit nonlabor payments	6.5	4.2	5.9	3.8	4.9	r17.0	5.7	4.8	3.9	5.1	4.7	r7.8
Implicit price deflator	10.1	8.3	7.2	9.4	11.9	r11.0	8.7	9.1	8.7	8.8	9.2	r9.9
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	-3.9	-1.5	0.8	-1.1	-3.7	r1.5	-1.1	-2.0	-2.0	-1.4	-1.4	r-0.7
Output	-3.6	1.2	2.5	0.2	-12.3	r0.1	2.2	1.3	0.3	0.1	-2.3	r-2.5
Hours	0.4	2.7	1.7	1.3	-8.9	-1.4	3.3	3.4	2.4	1.5	-0.9	r-1.9
Compensation per hour	8.1	8.5	9.5	10.7	10.8	r8.8	8.9	8.9	9.1	9.2	9.8	r9.9
Real compensation per hour	-4.2	-4.4	-3.6	-5.3	-2.6	r1.6	-1.6	-2.5	-3.3	-4.4	-4.0	r-2.5
Unit labor costs	12.5	10.1	8.6	12.0	15.0	r7.2	10.1	11.1	11.3	10.8	11.4	r10.7
Unit nonlabor payments	7.7	6.6	4.6	7.5	9.1	r16.8	5.0	4.3	3.7	6.6	7.0	r9.4
Implicit price deflator	11.0	9.0	7.4	10.6	13.2	r10.0	8.5	9.0	8.9	9.5	10.0	r10.3
MANUFACTURING:												
Output per hour of all persons	1.1	2.5	-1.3	-2.8	-4.7	-0.7	0.8	0.1	-0.3	-0.2	-1.6	r-2.4
Output	-2.5	-0.3	-1.3	-1.6	-21.8	r-8.6	3.7	1.9	-0.1	-1.4	-6.7	r-8.7
Hours	-3.6	-2.7	-0.1	1.3	-18.0	r-7.9	2.9	1.7	0.2	-1.3	-5.2	r-6.5
Compensation per hour	9.6	7.8	8.8	10.5	15.2	r12.1	9.2	9.1	9.1	9.2	10.5	r11.6
Real compensation per hour	-2.8	-4.9	-4.2	-5.5	1.4	r4.6	-1.3	-2.4	-3.3	-4.4	-3.4	r-1.0
Unit labor costs	8.5	5.2	10.2	13.7	20.9	r12.9	8.3	8.9	9.3	9.3	12.4	r14.4
DURABLE GOODS												
Output per hour of all persons	1.3	-0.9	-0.8	-4.7	-3.2	r-3.0	-0.1	-1.2	-1.3	-1.3	-2.4	r-3.0
Output	-3.9	-2.7	-1.7	-3.4	-25.5	r-11.9	4.3	1.4	-1.1	-3.0	-8.9	r-11.1
Hours	-5.2	-1.9	-0.9	1.3	-23.0	r-9.2	4.4	2.7	0.2	-1.7	-6.7	r-8.4
Compensation per hour	9.6	7.6	8.1	12.6	16.2	r12.2	9.0	9.0	8.7	9.4	11.1	r12.2
Real compensation per hour	-2.9	-5.1	-4.8	-3.7	2.2	r4.7	-1.5	-2.5	-3.5	-4.1	-2.9	r-0.5
Unit labor costs	8.1	8.5	9.0	18.2	20.1	r15.7	9.1	10.3	10.2	10.9	13.8	r15.7
NONDURABLE GOODS												
Output per hour of all persons	0.5	7.8	-2.1	0.0	-7.5	r2.4	2.2	2.3	1.4	1.5	-0.6	r-1.9
Output	-0.4	3.5	-0.8	1.2	-16.4	r-3.7	2.7	2.6	1.5	0.9	-3.4	r-5.2
Hours	-0.9	-4.0	1.3	1.2	-9.6	r-6.0	0.5	0.3	0.1	-0.6	-2.9	r-3.4
Compensation per hour	10.3	7.9	10.3	6.7	15.5	r12.3	9.1	9.0	9.7	8.8	10.0	r11.2
Real compensation per hour	-2.2	-4.8	-2.9	-8.8	1.6	r4.8	-1.4	-2.4	-2.7	-4.7	-3.8	r-1.4
Unit labor costs	9.7	0.2	12.6	6.7	24.9	r9.6	6.7	6.5	8.2	7.2	10.7	r13.3
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	-2.7	-0.3	-0.4	-0.1	-1.9	p4.7	-0.6	-1.1	-1.4	-0.9	-0.7	p0.6
Output	-2.6	0.6	1.9	0.8	-11.5	p 0.6	2.9	1.9	0.6	0.2	-2.2	p-2.2
Hours	0.1	0.9	2.3	0.9	-9.8	p-3.9	3.6	3.1	2.0	1.0	-1.5	p-2.8
Compensation per hour	8.3	8.5	8.4	11.0	11.1	p 9.6	8.7	8.9	9.0	9.0	9.7	p10.0
Real compensation per hour	-4.1	-4.3	-4.5	-5.1	-2.3	p2.3	-1.8	-2.6	-3.3	-4.5	-4.1	p-2.4
Total unit costs	11.8	10.2	9.3	12.2	17.6	p8.2	8.6	9.9	10.8	10.9	12.3	p11.7
Unit labor costs	11.2	8.8	8.9	11.1	13.2	p4.7	9.4	10.1	10.6	10.0	10.5	p9.4
Unit nonlabor costs	13.5	14.6	10.6	15.4	31.1	p18.6	6.2	9.4	11.3	13.5	17.7	p18.7
Unit profits	-3.4	-5.3	-10.4	-10.9	-34.7	p27.5	0.0	-3.9	-10.6	-7.6	-16.2	p-9.7
Implicit price deflator	10.2	8.6	7.3	9.9	12.1	p9.6	7.7	8.4	8.4	9.0	9.5	p9.7

GPO 873-678

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		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
ALABAMA	\$250.28	\$262.10	\$267.33	41.3	40.2	40.2	\$6.06	\$6.52	\$6.65
Birmingham	289.38	285.71	(*)	40.7	39.3	(*)	7.11	7.27	(*)
Mobile	316.52	345.46	(*)	42.6	43.4	(*)	7.43	7.96	(*)
ALASKA	433.92	(*)	(*)	45.2	(*)	(*)	9.60	(*)	(*)
ARIZONA	274.05	295.14	297.35	40.6	40.1	39.7	6.75	7.36	7.49
Phoenix	272.16	294.67	293.26	40.5	40.2	39.9	6.72	7.33	7.35
Tucson	251.13	281.23	282.98	39.3	37.8	38.5	6.39	7.44	7.35
ARKANSAS	213.73	231.82	232.85	40.1	39.9	39.4	5.33	5.81	5.91
Fayetteville—Springdale	202.44	201.98	205.64	42.0	38.4	38.8	4.82	5.26	5.30
Fort Smith	215.34	231.66	226.35	38.8	39.0	37.6	5.55	5.94	6.02
Little Rock—North Little Rock	240.80	267.73	261.74	40.2	41.0	39.3	5.99	6.53	6.66
Pine Bluff	300.46	310.42	332.39	42.2	41.5	43.0	7.12	7.48	7.73
CALIFORNIA	288.72	314.42	311.65	40.1	39.7	39.4	7.20	7.92	7.91
Anaheim—Santa Ana—Garden Grove	266.24	296.27	298.40	40.4	40.2	40.0	6.59	7.37	7.46
Bakersfield	316.27	337.60	343.88	40.6	40.0	40.6	7.79	8.44	8.47
Fresno	263.56	285.27	294.18	40.3	38.7	39.7	6.54	7.37	7.41
Los Angeles—Long Beach	270.14	298.00	297.65	40.2	40.0	39.9	6.72	7.45	7.46
Modesto	280.40	315.57	283.28	40.0	40.2	36.6	7.01	7.85	7.74
Oxnard—Simi Valley—Ventura	250.49	270.38	268.19	39.2	39.3	38.7	6.39	6.88	6.93
Riverside—San Bernardino—Ontario	303.28	303.00	(*)	40.6	38.5	(*)	7.47	7.87	(*)
Sacramento	312.45	357.70	(*)	39.5	41.4	(*)	7.91	8.64	(*)
Salinas—Seaside—Monterey	259.04	278.23	282.75	36.9	36.9	37.5	7.02	7.54	7.54
San Diego	266.73	298.65	301.85	38.6	39.4	39.1	6.91	7.58	7.72
San Francisco—Oakland	342.68	369.33	(*)	39.8	39.0	(*)	8.61	9.47	(*)
San Jose	304.37	329.94	328.60	40.8	39.8	39.4	7.46	8.29	8.34
Santa Barbara—Santa Maria—Lompoc	244.57	266.64	272.38	37.0	38.2	38.8	6.61	6.98	7.02
Santa Rosa	260.70	287.10	274.36	39.5	39.6	38.0	6.60	7.25	7.22
Stockton	301.07	358.28	320.80	39.1	42.4	38.1	7.70	8.45	8.42
Vallejo—Fairfield—Napa	307.32	348.60	334.07	39.4	40.3	38.8	7.80	8.65	8.61
COLORADO	269.60	288.28	291.30	39.3	38.8	39.1	6.86	7.43	7.45
Denver—Boulder	267.54	288.73	292.55	39.0	38.6	38.8	6.86	7.48	7.54
CONNECTICUT	279.36	297.36	301.29	42.2	41.3	41.5	6.62	7.20	7.26
Bridgeport	294.01	313.12	315.23	43.3	42.2	42.2	6.79	7.42	7.47
Hartford	311.32	321.86	324.59	43.0	41.8	42.1	7.24	7.70	7.71
New Britain	295.06	312.91	310.06	43.2	42.4	41.9	6.83	7.38	7.40
New Haven—West Haven	279.47	287.99	282.80	41.9	41.2	40.4	6.67	6.99	7.00
Stamford	275.94	280.98	284.69	42.0	41.2	41.2	6.57	6.82	6.91
Waterbury	245.23	245.43	255.23	42.5	40.5	41.5	5.77	6.06	6.15
DELAWARE	283.93	306.18	318.61	39.6	40.5	40.9	7.17	7.56	7.79
Wilmington	317.98	356.40	370.82	39.5	40.5	41.9	8.05	8.80	8.85
DISTRICT OF COLUMBIA:									
Washington SMSA	305.37	344.20	335.05	39.0	39.7	38.6	7.83	8.67	8.68
FLORIDA	227.61	250.92	249.29	40.5	40.8	40.8	5.62	6.15	6.11
Fort Lauderdale—Hollywood	216.68	225.63	228.63	40.5	40.6	40.9	5.35	5.56	5.59
Jacksonville	264.47	305.95	285.88	40.5	42.2	40.6	6.53	7.25	7.14
Lakeand—Winter Haven	270.72	296.09	292.65	44.6	43.8	43.1	6.07	6.76	6.79
Miami	198.40	215.21	220.30	40.0	39.2	40.2	4.96	5.49	5.48
Orlando	244.44	264.92	270.90	42.0	41.2	42.0	5.82	6.43	6.45
Pensacola	302.32	303.55	306.12	42.7	40.8	41.2	7.08	7.44	7.43
Tampa—St. Petersburg	236.40	252.13	248.13	40.9	40.8	39.7	5.78	6.19	6.25
West Palm Beach—Boca Raton	245.30	237.37	242.08	39.5	40.3	41.1	6.21	5.89	5.89
GEORGIA	214.24	236.99	239.99	39.6	40.1	40.2	5.41	5.91	5.97
Atlanta	240.59	276.58	285.65	37.3	38.9	39.4	6.45	7.11	7.25
Savannah	291.17	325.55	334.46	41.3	42.5	43.1	7.05	7.66	7.76
HAWAII	260.29	263.15	276.08	39.2	37.7	40.6	6.64	6.98	6.80
Honolulu	254.41	259.56	273.86	38.2	37.4	38.9	6.66	6.94	7.04
IDAHO	266.56	301.32	297.58	38.8	37.2	38.2	6.87	8.10	7.79
Boise City	246.77	268.41	253.20	38.8	38.9	37.4	6.36	6.90	6.77

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
ILLINOIS	\$303.43	\$330.77	\$331.50	41.0	39.9	39.7	\$7.40	\$8.29	\$8.35
Bloomington—Normal	264.30	301.49	276.53	40.8	41.3	38.3	6.48	7.30	7.22
Champaign—Urbana—Rantoul	270.17	262.07	254.54	39.2	36.5	35.7	6.89	7.18	7.13
Chicago SMSA	291.19	308.90	310.47	40.5	39.4	39.5	7.19	7.84	7.86
Davenport—Rock Island—Moline	337.22	384.34	379.65	38.9	39.5	38.7	8.67	9.73	9.81
Decatur	313.65	366.49	361.76	39.0	38.7	38.0	8.03	9.47	9.52
Peoria	338.18	393.28	399.25	40.5	38.9	38.5	8.34	10.11	10.37
Rockford	308.63	313.22	316.37	42.0	39.9	40.2	7.33	7.85	7.87
Springfield	313.46	292.24	(*)	41.9	34.3	(*)	7.48	8.52	(*)
INDIANA	319.16	345.46	349.67	40.4	39.8	40.1	7.90	8.68	8.72
Gary—Hammond—East Chicago	411.53	457.04	(*)	39.8	39.4	(*)	10.34	11.60	(*)
Indianapolis	322.75	342.86	(*)	40.7	40.1	(*)	7.93	8.55	(*)
IOWA	308.56	352.13	348.98	40.6	39.3	39.3	7.60	8.96	8.88
Cedar Rapids	327.59	362.91	357.80	41.0	40.1	39.8	7.99	9.05	8.99
Des Moines	329.51	357.93	355.80	39.7	38.2	38.8	8.30	9.37	9.17
Dubuque	299.92	394.16	337.51	36.8	37.9	34.3	8.15	10.40	9.84
St. Louis City	307.73	365.06	350.70	42.8	43.1	42.0	7.19	8.47	8.35
Waterloo—Cedar Falls	319.61	480.40	477.06	38.6	40.1	39.2	8.28	11.98	12.17
KANSAS	287.82	307.43	310.84	41.0	41.1	40.9	7.02	7.48	7.60
Topeka	313.53	335.34	327.92	41.2	40.5	39.7	7.61	8.28	8.26
Wichita	311.44	335.37	351.94	42.2	41.2	41.6	7.38	8.14	8.46
KENTUCKY	275.42	293.25	304.07	39.8	39.1	39.8	6.92	7.50	7.64
Lexington—Fayette	275.54	286.94	288.25	40.7	39.2	38.9	6.77	7.32	7.41
Louisville	315.57	338.77	360.80	40.2	39.3	41.0	7.85	8.62	8.80
LOUISIANA	294.24	326.30	331.20	41.5	41.2	41.4	7.09	7.92	8.00
Baton Rouge	367.04	426.00	425.70	41.9	42.9	42.4	8.76	9.93	10.04
New Orleans	296.07	331.38	335.55	41.7	42.0	42.8	7.10	7.89	7.84
Shreveport	259.45	285.32	292.98	40.1	40.3	40.3	6.47	7.08	7.27
MAINE	225.12	246.21	248.62	40.2	40.1	40.1	5.60	6.14	6.20
Lewiston—Auburn	176.05	190.88	197.08	36.6	37.5	37.9	4.81	5.09	5.20
Portland	215.21	233.63	234.00	39.2	39.2	39.0	5.49	5.96	6.00
MARYLAND	291.27	306.90	306.90	39.9	39.6	39.6	7.30	7.75	7.75
Baltimore	309.87	322.40	323.20	40.4	40.0	40.0	7.67	8.06	8.08
MASSACHUSETTS	(*)	263.21	262.64	(*)	39.7	39.2	(*)	6.63	6.70
Boston	(*)	285.12	285.19	(*)	39.6	39.5	(*)	7.20	7.22
Brockton	(*)	210.65	212.22	(*)	39.3	39.3	(*)	5.36	5.40
Fall River	(*)	187.04	192.05	(*)	35.9	36.1	(*)	5.21	5.32
Lawrence—Haverhill	(*)	274.39	280.14	(*)	41.2	40.6	(*)	6.66	6.90
Lowell	(*)	240.16	230.05	(*)	39.5	37.9	(*)	6.08	6.07
New Bedford	(*)	207.43	203.34	(*)	36.2	34.7	(*)	5.73	5.86
Springfield—Chicopee—Holyoke	(*)	264.71	262.80	(*)	40.6	40.0	(*)	6.52	6.57
Worcester	(*)	254.41	255.36	(*)	39.2	38.4	(*)	6.49	6.65
MICHIGAN	(*)	388.98	(*)	(*)	40.3	(*)	(*)	9.65	(*)
Ann Arbor	(*)	378.70	(*)	(*)	37.0	(*)	(*)	10.24	(*)
Battle Creek	(*)	372.84	(*)	(*)	39.5	(*)	(*)	9.44	(*)
Bay City	(*)	357.26	(*)	(*)	40.3	(*)	(*)	8.87	(*)
Detroit	(*)	428.53	(*)	(*)	41.4	(*)	(*)	10.35	(*)
Flint	(*)	444.12	(*)	(*)	40.7	(*)	(*)	10.83	(*)
Grand Rapids	(*)	326.31	(*)	(*)	40.4	(*)	(*)	8.08	(*)
Jackson	(*)	364.96	(*)	(*)	42.7	(*)	(*)	8.55	(*)
Kalamazoo—Portage	(*)	351.52	358.42	(*)	40.1	40.2	(*)	8.77	8.92
Lansing—East Lansing	(*)	369.49	406.07	(*)	36.5	39.0	(*)	10.12	10.41
Muskegon—Norton Shores—Muskegon Heights	(*)	343.30	350.05	(*)	40.1	40.3	(*)	8.56	8.69
Saginaw	(*)	426.14	453.38	(*)	39.7	40.6	(*)	10.73	11.17
MINNESOTA	285.82	303.02	307.33	40.2	39.2	39.2	7.11	7.73	7.84
Duluth—Superior	275.31	280.87	285.77	39.9	37.7	37.8	6.90	7.45	7.56
Minneapolis—St. Paul	304.31	329.47	331.41	40.2	39.6	39.5	7.57	8.32	8.39
St. Cloud	210.70	214.09	218.01	36.9	33.4	33.8	5.71	6.41	6.45

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		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
MISSISSIPPI	\$202.10	\$221.60	\$221.29	40.1	40.0	39.8	\$5.04	\$5.54	\$5.56
Jackson	227.15	243.81	248.25	41.3	40.5	40.3	5.50	6.02	6.16
MISSOURI	272.45	286.65	287.86	39.6	39.0	38.9	6.88	7.35	7.40
Kansas City	316.80	329.28	341.35	40.0	39.2	39.6	7.92	8.40	8.62
St. Joseph	273.77	287.53	281.08	40.8	40.9	39.7	6.71	7.03	7.08
St. Louis	307.93	328.94	325.98	40.2	39.3	38.9	7.66	8.37	8.38
Springfield	237.07	275.93	277.20	38.8	40.4	40.0	6.11	6.83	6.93
MONTANA	377.13	375.68	384.38	43.7	45.1	44.8	8.63	8.33	8.58
NEBRASKA	277.95	312.07	310.49	41.3	40.9	40.8	6.73	7.63	7.61
Lincoln	261.74	299.83	290.86	39.9	40.3	39.2	6.56	7.44	7.42
Omaha	285.37	311.58	313.60	39.8	40.1	40.0	7.17	7.77	7.84
NEVADA	280.47	312.76	290.19	38.9	38.9	38.9	7.21	8.04	7.46
Las Vegas	376.94	389.24	(*)	38.7	39.8	(*)	9.74	9.78	(*)
NEW HAMPSHIRE	220.49	240.59	240.40	39.8	40.3	40.0	5.54	5.97	6.01
Manchester	191.50	216.07	219.70	38.3	39.5	39.8	5.00	5.47	5.52
Nashua	237.92	259.37	260.25	40.6	40.4	40.1	5.86	6.42	6.49
NEW JERSEY	283.98	306.69	309.92	41.7	41.5	41.6	6.81	7.39	7.45
Atlantic City	198.59	197.84	192.24	37.4	36.3	35.6	5.31	5.45	5.40
Camden ²	273.82	307.02	308.51	41.3	41.1	41.3	6.63	7.47	7.47
Hackensack ³	258.07	282.25	283.34	42.1	42.7	42.8	6.13	6.61	6.62
Jersey City ³	276.71	306.36	307.84	41.3	41.4	41.6	6.70	7.40	7.40
New Brunswick—Perth Amboy—Sayreville ³	305.42	337.40	341.04	40.4	40.7	41.2	7.56	8.29	8.28
Newark ³	292.40	310.09	317.75	42.5	41.4	41.7	6.88	7.49	7.62
Paterson—Clifton—Passaic ³	264.04	278.12	281.76	41.0	40.9	40.6	6.44	6.80	6.94
Trenton	297.88	305.36	(*)	41.2	38.8	(*)	7.23	7.87	(*)
NEW MEXICO	217.06	223.57	236.29	39.9	39.5	40.6	5.44	5.66	5.82
Albuquerque	216.27	249.26	255.85	40.5	41.2	41.4	5.34	6.05	6.18
NEW YORK	267.06	286.50	290.38	39.8	39.3	39.4	6.71	7.29	7.37
Albany—Schenectady—Troy	285.82	313.84	314.28	40.6	40.6	40.5	7.04	7.73	7.76
Binghamton	249.87	276.30	272.69	41.3	41.3	40.7	6.05	6.69	6.70
Buffalo	356.29	373.86	381.35	41.0	40.2	40.1	8.69	9.30	9.51
Elmira	272.54	283.61	286.16	40.8	39.5	39.2	6.68	7.12	7.30
Monroe County ⁴	366.21	398.04	403.33	41.9	42.3	42.5	8.74	9.41	9.49
Nassau—Suffolk ⁵	251.93	277.31	275.00	39.8	39.9	39.8	6.33	6.95	7.01
New York—Northeastern New Jersey	253.92	271.44	(*)	39.8	39.0	(*)	6.38	6.96	(*)
New York and Nassau—Suffolk ³	230.57	245.52	251.75	38.3	37.2	37.8	6.02	6.60	6.66
New York SMSA ⁵	225.13	237.90	244.69	37.9	36.6	37.3	5.94	6.50	6.56
New York City ⁶	221.25	234.21	239.85	37.5	36.2	36.9	5.90	6.47	6.50
Poughkeepsie	270.26	304.99	295.48	41.9	43.2	41.5	6.45	7.06	7.12
Rochester	339.44	369.56	374.27	41.7	41.9	42.1	8.14	8.82	8.89
Rockland County ⁵	256.19	274.44	275.31	40.6	40.3	39.9	6.31	6.81	6.90
Syracuse	302.33	319.97	317.75	41.7	41.5	41.0	7.25	7.71	7.75
Utica—Rome	261.94	263.74	267.92	40.8	39.6	39.4	6.42	6.66	6.80
Westchester County ⁶	256.89	261.80	287.99	41.3	38.9	41.2	6.22	6.73	6.99
NORTH CAROLINA	200.80	216.94	218.12	40.0	39.3	39.3	5.02	5.52	5.55
Asheville	201.06	217.46	218.80	40.7	39.9	40.0	4.94	5.45	5.47
Charlotte—Gastonia	203.50	220.84	223.71	40.7	40.3	40.6	5.00	5.48	5.51
Greensboro—Winston-Salem—High Point	217.01	242.35	241.70	39.6	39.6	39.3	5.48	6.12	6.15
Raleigh—Durham	226.40	249.80	248.38	40.0	39.4	39.3	5.66	6.34	6.32
NORTH DAKOTA	255.02	265.48	261.51	41.0	38.7	38.8	6.22	6.86	6.74
Fargo—Moorhead	286.62	283.36	291.30	42.4	38.5	39.1	6.76	7.36	7.45
OHIO	329.16	355.72	362.71	41.3	40.7	40.8	7.97	8.74	8.89
Akron	334.40	369.22	383.72	41.8	41.3	41.8	8.00	8.94	9.18
Canton	334.56	340.66	343.98	40.8	38.8	39.0	8.20	8.78	8.82
Cincinnati	305.70	335.38	339.07	41.2	41.1	41.0	7.42	8.16	8.27
Cleveland	335.69	355.78	362.85	41.7	40.8	41.0	8.05	8.72	8.85
Columbus	289.35	312.45	316.40	39.8	39.5	39.5	7.27	7.91	8.01
Dayton	347.73	366.50	376.62	42.2	41.6	41.8	8.24	8.81	9.01
Toledo	342.77	366.38	373.42	41.1	40.8	40.9	8.34	8.98	9.13
Youngstown—Warren	385.15	411.84	422.81	40.8	39.6	39.7	9.44	10.40	10.65

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		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
OKLAHOMA	\$271.89	\$301.15	\$300.40	40.4	40.1	40.0	\$6.73	\$7.51	\$7.51
Oklahoma City.....	283.83	320.80	307.71	42.3	42.0	39.5	6.71	8.02	7.79
Tulsa.....	292.09	319.19	324.38	40.4	40.2	40.7	7.23	7.94	7.97
OREGON	310.23	336.04	330.62	38.3	37.8	37.4	8.10	8.89	8.84
Eugene—Springfield.....	328.04	370.94	354.33	38.1	39.8	38.1	8.61	9.32	9.30
Jackson County.....	319.99	347.88	329.82	38.6	39.0	37.1	8.29	8.92	8.89
Portland.....	301.34	327.59	332.86	38.0	37.1	37.4	7.93	8.83	8.90
PENNSYLVANIA	284.57	299.15	301.47	39.8	38.7	38.7	7.15	7.73	7.79
Allentown—Bethlehem—Easton.....	290.64	307.42	307.42	38.7	38.0	38.0	7.51	8.09	8.09
Alltoona.....	277.93	263.86	257.36	39.5	39.5	38.7	6.15	6.68	6.65
Delaware Valley.....	290.47	310.47	312.84	39.9	39.5	39.6	7.28	7.86	7.90
Erie.....	298.03	321.58	322.39	41.8	40.4	40.4	7.13	7.96	7.98
Harrisburg.....	272.41	291.20	293.13	41.4	40.5	40.6	6.58	7.19	7.22
Johnstown.....	304.17	292.40	314.34	38.6	44.3	72.3	7.88	8.50	.45
Lancaster.....	256.26	262.02	267.33	41.2	39.7	40.2	6.22	6.60	6.65
Northeast Pennsylvania.....	198.20	216.60	217.91	36.3	36.1	36.5	5.46	6.00	5.97
Philadelphia SMSA.....	287.92	310.44	312.82	40.1	39.8	39.9	7.18	7.80	7.84
Pittsburgh.....	349.86	368.94	367.26	40.4	39.0	38.7	8.66	9.46	9.49
Reading.....	260.24	280.60	282.57	38.9	39.3	39.3	6.69	7.14	7.19
Scranton.....	196.51	214.80	215.16	36.8	36.1	37.4	5.34	5.95	5.86
Wilkes-Barre—Hazleton.....	197.78	217.92	217.20	35.7	36.2	35.9	5.54	6.02	6.05
Williamsport.....	264.80	277.29	291.06	40.0	39.0	39.6	6.62	7.11	7.35
York.....	259.16	275.49	277.43	41.4	40.1	40.5	6.26	6.87	6.85
RHODE ISLAND	203.31	225.04	221.52	38.8	39.9	39.0	5.24	5.64	5.68
Providence—Warwick—Pawtucket.....	201.89	223.04	220.13	38.9	39.9	39.1	5.19	5.59	5.63
SOUTH CAROLINA	216.07	228.80	231.72	41.0	40.0	40.3	5.27	5.72	5.75
Charleston—North Charleston.....	237.21	264.26	269.32	39.8	40.1	40.5	5.96	6.59	6.65
Columbia.....	215.30	220.30	222.78	40.7	39.2	39.5	5.29	5.62	5.64
Greenville—Spartanburg.....	212.68	226.69	229.82	40.9	39.7	39.9	5.20	5.71	5.76
SOUTH DAKOTA	249.42	279.35	271.21	41.5	40.9	40.6	6.01	6.83	6.68
Rapid City.....	195.36	218.75	216.81	35.2	32.6	32.9	5.55	6.71	6.59
Sioux Falls.....	341.82	382.34	381.15	44.8	43.3	45.0	7.63	8.83	8.47
TENNESSEE	228.00	246.31	(*)	40.0	39.6	(*)	5.70	6.22	(*)
Chattanooga.....	230.04	252.94	(*)	40.5	40.6	(*)	5.68	6.23	(*)
Knoxville.....	265.17	287.89	(*)	40.3	39.6	(*)	6.58	7.27	(*)
Memphis.....	254.00	290.79	(*)	40.0	40.5	(*)	6.35	7.18	(*)
Nashville—Davidson.....	248.27	265.20	(*)	40.7	40.0	(*)	6.10	6.63	(*)
TEXAS	272.74	300.25	302.50	41.2	41.3	41.1	6.62	7.27	7.36
Amarillo.....	260.65	298.68	300.18	40.1	43.1	42.7	6.50	6.93	7.03
Austin.....	207.87	232.98	235.07	41.0	40.1	40.6	5.07	5.81	5.79
Beaumont—Port Arthur—Orange.....	389.23	430.14	421.60	42.4	43.1	42.5	9.18	9.98	9.92
Corpus Christi.....	287.43	314.79	298.70	39.7	40.1	39.2	7.24	7.85	7.62
Dallas—Fort Worth.....	252.25	279.61	280.49	40.7	40.7	40.3	6.21	6.87	6.96
El Paso.....	197.46	185.85	205.18	39.1	38.8	41.2	5.05	4.79	4.98
Galveston—Texas City.....	420.30	450.07	437.22	42.8	42.3	40.9	9.82	10.64	10.69
Houston.....	353.78	374.07	365.35	44.5	43.7	43.3	7.95	8.56	8.53
Lubbock.....	210.91	247.62	246.03	41.6	42.4	41.7	5.07	5.84	5.90
San Antonio.....	198.70	218.36	223.15	40.8	41.2	41.4	4.87	5.30	5.39
Waco.....	236.49	243.49	246.25	41.2	39.4	39.4	5.74	6.18	6.25
Wichita Falls.....	237.80	271.75	275.25	39.9	40.2	40.3	5.96	6.76	6.83
UTAH	252.29	278.14	277.71	38.4	38.9	38.2	6.57	7.15	7.27
Salt Lake City—Ogden.....	237.78	269.01	268.66	38.6	39.1	38.6	6.16	6.88	6.96
VERMONT	228.63	256.22	258.08	40.9	40.8	40.9	5.59	6.28	6.31
Burlington.....	249.78	290.74	286.27	41.7	43.2	42.6	5.99	6.73	6.72
Springfield.....	270.94	278.66	286.35	42.4	40.8	41.5	6.39	6.83	6.90
VIRGINIA	228.97	250.58	253.29	40.1	39.4	39.7	5.71	6.36	6.38
Bristol.....	202.17	208.21	207.75	37.3	36.4	37.5	5.42	5.72	5.54
Lynchburg.....	241.38	246.08	246.63	40.5	39.5	38.9	5.96	6.23	6.34
Norfolk—Virginia Beach—Portsmouth.....	256.25	282.35	293.86	41.0	41.4	42.1	6.25	6.82	6.98
Northern Virginia..... ¹⁰	258.98	285.91	284.89	39.6	40.1	39.9	6.54	7.13	7.14
Petersburg—Colonial Heights—Hopewell.....	284.25	298.35	304.10	39.7	39.0	39.7	7.16	7.65	7.66

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		
	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P	OCT. 1979	SEP. 1980	OCT. 1980P
VIRGINIA—Continued									
Richmond	\$278.47	\$329.26	\$339.07	40.3	40.8	41.3	\$6.91	\$8.07	\$8.21
Roanoke	218.30	240.39	243.14	40.5	39.8	39.6	5.39	6.04	6.14
WASHINGTON	337.65	375.00	(*)	38.9	38.7	(*)	8.68	9.69	(*)
Seattle—Everett	351.16	387.50	(*)	39.5	39.3	(*)	8.89	9.86	(*)
Spokane	295.64	336.30	(*)	38.0	38.0	(*)	7.78	8.85	(*)
Tacoma	336.01	372.68	(*)	38.8	38.5	(*)	8.66	9.68	(*)
WEST VIRGINIA	295.18	314.50	324.92	39.2	38.4	39.1	7.53	8.19	8.31
Charleston	339.83	369.56	375.04	41.8	41.2	41.2	8.13	8.97	9.20
Huntington—Ashland	336.49	366.27	378.25	38.9	38.8	39.9	8.65	9.44	9.48
Parkersburg—Marietta	316.47	335.32	336.56	41.1	40.4	40.5	7.70	8.30	8.31
Wheeling	302.23	349.97	370.66	39.2	38.5	39.6	7.71	9.09	9.36
WISCONSIN	306.64	326.80	332.65	40.9	40.1	40.2	7.50	8.16	8.29
Appleton—Oshkosh	300.48	317.45	320.67	41.5	41.1	41.1	7.24	7.73	7.80
Eau Claire	315.75	330.61	338.18	42.2	41.4	42.1	7.48	7.99	8.03
Green Bay	315.36	337.46	347.52	42.1	41.5	41.8	7.49	8.12	8.31
Janesville—Beloit	325.36	352.16	352.82	39.4	40.6	40.7	8.27	8.67	8.68
Kenosha	357.76	363.43	388.04	40.2	39.0	39.9	8.90	9.31	9.73
La Crosse	255.34	289.46	286.16	39.8	40.8	40.3	6.42	7.09	7.10
Madison	298.04	329.52	329.32	39.3	38.7	38.9	7.59	8.52	8.46
Milwaukee	335.96	364.98	364.84	41.0	40.1	39.9	8.19	9.11	9.16
Racine	337.87	347.18	352.50	42.6	39.6	39.8	7.93	8.78	8.87
WYOMING	254.89	320.04	300.11	38.1	42.0	40.5	6.69	7.62	7.41
Casper	326.76	319.35	314.12	38.9	38.2	37.8	8.40	8.36	8.31
VIRGIN ISLANDS	285.23	295.26	303.73	41.1	39.9	41.1	6.94	7.40	7.39

¹ Revised to 1979 benchmark; not strictly comparable with previously published data.

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

³ Subarea of New York-Northeastern New Jersey.

⁴ Subarea of Rochester Standard Metropolitan Statistical Area.

⁵ Area included in New York and Nassau-Suffolk combined SMSA's.

⁶ Subarea of New York Standard Metropolitan Statistical Area.

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

⁸ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

⁹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹⁰ 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, 1970 to date

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1970.....	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971.....	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972.....	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973.....	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974.....	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975.....	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976.....	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977.....	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.3	4.6	3.9	3.1	2.4
1978.....	4.1	3.8	3.2	3.8	4.0	4.7	4.9	4.4	5.4	4.9	4.3	3.3	2.4
1979.....	4.0	4.0	3.4	3.8	3.9	4.7	4.8	4.3	5.0	4.5	4.1	3.0	2.2
1980.....		3.8	3.3	3.5	3.1	3.4	3.9	3.8	4.5	4.3	P3.6		
New hires													
1970.....	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971.....	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972.....	3.3	2.6	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973.....	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974.....	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975.....	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976.....	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977.....	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	3.0	2.2	1.6
1978.....	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.2	3.9	3.5	2.6	1.7
1979.....	2.9	2.8	2.5	2.8	2.9	3.6	3.8	3.1	3.7	3.4	3.1	2.2	1.5
1980.....		2.4	2.2	2.3	2.1	2.1	2.4	2.1	2.5	2.6	P2.1		
Recalls													
1976.....	1.0	1.4	1.0	1.2	1.0	1.0	0.9	1.1	1.1	0.8	0.7	0.7	0.7
1977.....	.9	1.2	1.3	1.1	.9	.8	.8	.9	1.0	.8	.6	.6	.6
1978.....	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.7	.6	.5	.5
1979.....	.7	.9	.7	.7	.7	.8	.7	.9	.9	.8	.7	.5	.5
1980.....		1.1	.9	.9	.8	1.0	1.2	1.4	1.7	1.4	P1.1		
Total separations													
1970.....	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971.....	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972.....	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973.....	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974.....	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975.....	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976.....	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977.....	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.9	3.8	3.4	3.4
1978.....	3.9	3.6	3.1	3.5	3.6	3.7	3.8	4.1	5.3	4.9	4.1	3.5	3.4
1979.....	4.0	3.8	3.2	3.6	3.7	3.8	3.9	4.3	5.7	4.7	4.2	3.8	3.5
1980.....		4.1	3.5	3.7	4.7	4.8	4.4	4.2	4.8	4.1	P3.8		
Quits													
1970.....	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971.....	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972.....	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973.....	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974.....	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975.....	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976.....	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977.....	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978.....	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.5	3.1	2.3	1.7	1.3
1979.....	2.0	1.8	1.6	1.9	2.0	2.1	2.1	2.0	3.3	2.7	2.1	1.6	1.1
1980.....		1.6	1.5	1.6	1.5	1.5	1.4	1.4	2.2	1.9	P1.4		
Layoffs													
1970.....	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971.....	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972.....	1.1	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973.....	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974.....	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975.....	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976.....	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977.....	1.1	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1	1.1	1.5
1978.....	.9	1.2	.9	.9	.8	.7	.7	1.1	.8	.8	.9	1.0	1.4
1979.....	1.1	1.1	.8	.8	.9	.7	.9	1.4	1.3	1.1	1.2	1.5	1.7
1980.....		1.6	1.2	1.3	2.3	2.5	2.2	2.0	1.7	1.4	P1.5		

p=preliminary.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-2. Labor turnover rates, by industry

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980
	MANUFACTURING	4.3	3.6	2.6	2.1	1.4	1.1	4.1	3.8	1.9	1.4	1.4	1.5
24, 25, 32-39	DURABLE GOODS	4.0	3.4	2.1	1.8	1.6	1.2	3.5	3.2	1.4	1.1	1.2	1.3
20-23, 26-31	NONDURABLE GOODS	4.7	3.9	3.2	2.7	1.3	.9	4.9	4.6	2.5	1.9	1.6	1.9
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	5.3	4.3	3.6	3.1	1.5	1.0	5.8	4.8	2.8	2.2	2.0	1.7
242	Sawmills and planing mills	4.3	-	2.8	-	1.2	-	5.9	-	2.5	-	2.4	-
2421	Sawmills and planing mills, general	3.7	-	2.6	-	.9	-	5.8	-	2.3	-	2.5	-
243	Millwork, plywood, and structural members	5.3	-	3.4	-	1.8	-	5.1	-	2.3	-	1.9	-
2431	Millwork	5.7	-	3.3	-	2.3	-	3.7	-	2.1	-	.8	-
244	Wooden containers	6.7	-	4.6	-	2.0	-	7.7	-	4.4	-	2.3	-
245	Wood buildings and mobile homes	10.2	-	7.7	-	2.3	-	8.3	-	4.7	-	2.2	-
2451	Mobile homes	11.1	-	9.1	-	2.0	-	9.2	-	5.4	-	2.4	-
249	Miscellaneous wood products	6.0	-	4.4	-	1.2	-	5.1	-	3.0	-	1.0	-
25	FURNITURE AND FIXTURES	5.4	4.1	3.8	3.1	1.4	.9	4.3	4.2	2.5	2.0	.8	1.2
251	Household furniture	5.9	-	4.1	-	1.6	-	4.3	-	2.6	-	.7	-
2511	Wood household furniture	5.6	-	4.3	-	1.1	-	4.2	-	2.9	-	.2	-
2512	Upholstered household furniture	5.2	-	3.3	-	1.7	-	4.4	-	2.4	-	1.3	-
2515	Mattresses and bedsprings	6.2	-	5.1	-	1.0	-	3.9	-	2.5	-	.4	-
252	Office furniture	2.9	-	2.2	-	.7	-	3.7	-	1.5	-	1.5	-
254	Partitions and fixtures	5.6	-	4.7	-	.7	-	5.4	-	2.9	-	1.3	-
32	STONE, CLAY, AND GLASS PRODUCTS	3.8	3.3	2.2	2.0	1.4	1.2	4.0	3.9	1.6	1.2	1.4	1.7
322	Glass and glassware, pressed or blown	2.6	-	1.0	-	1.2	-	3.9	-	1.2	-	1.6	-
3221	Glass containers	2.0	-	1.2	-	.5	-	4.0	-	1.4	-	1.7	-
3229	Pressed and blown glass, nec	3.4	-	.8	-	2.1	-	3.9	-	.9	-	1.5	-
323	Products of purchased glass	6.0	-	2.8	-	3.1	-	3.9	-	1.9	-	.7	-
324	Cement, hydraulic	2.3	-	.7	-	1.5	-	3.1	-	.9	-	1.1	-
325	Structural clay products	4.9	-	2.9	-	1.9	-	5.2	-	2.5	-	1.8	-
326	Pottery and related products	4.5	-	2.3	-	2.0	-	3.6	-	1.6	-	.9	-
327	Concrete, gypsum, and plaster products	4.3	-	3.3	-	.9	-	4.7	-	2.1	-	1.7	-
329	Misc nonmetallic mineral products	3.0	-	1.5	-	1.4	-	3.3	-	1.1	-	1.5	-
33	PRIMARY METAL INDUSTRIES	4.2	3.4	.9	.8	2.9	2.1	3.7	3.0	.7	.5	2.1	1.9
331	Blast furnace and basic steel products	5.0	-	.3	-	4.3	-	4.0	-	.3	-	2.6	-
3312	Blast furnaces and steel mills	5.3	-	.1	-	4.7	-	4.1	-	.2	-	2.7	-
332	Iron and steel foundries	4.6	-	1.3	-	2.6	-	4.4	-	1.1	-	2.6	-
3321	Gray iron foundries	4.9	-	1.2	-	2.6	-	3.5	-	1.1	-	1.7	-
3325	Steel foundries, nec	3.5	-	1.1	-	2.2	-	6.4	-	.9	-	4.5	-
333	Primary nonferrous metals	1.4	-	1.0	-	.3	-	2.1	-	1.1	-	.5	-
335	Nonferrous rolling and drawing	2.2	-	1.1	-	1.0	-	2.2	-	.6	-	.9	-
3351	Copper rolling and drawing	3.3	-	1.3	-	1.9	-	3.1	-	.6	-	1.5	-
3353	Aluminum sheet, plate, and foil	1.8	-	.7	-	1.0	-	2.7	-	.4	-	1.4	-
3357	Nonferrous wire drawing and insulating	1.8	-	1.0	-	.7	-	1.5	-	.5	-	.6	-
336	Nonferrous foundries	5.3	-	2.1	-	3.1	-	5.0	-	1.5	-	2.9	-
3361	Aluminum foundries	5.7	-	2.0	-	3.7	-	5.5	-	1.3	-	3.4	-
34	FABRICATED METAL PRODUCTS	4.6	3.5	2.5	2.0	1.9	1.2	3.8	3.6	1.6	1.2	1.5	1.6
341	Metal cans and shipping containers	4.1	-	1.0	-	2.7	-	4.9	-	1.0	-	3.1	-
3411	Metal cans	4.0	-	.6	-	3.0	-	5.1	-	.7	-	3.6	-
342	Cutlery, hand tools, and hardware	4.8	-	2.2	-	2.3	-	3.2	-	1.4	-	1.2	-
3423, 5	Hand and edge tools, and hand saws and blades	3.4	-	1.4	-	1.8	-	2.9	-	1.0	-	1.4	-
3429	Hardware, nec	5.6	-	2.7	-	2.6	-	3.3	-	1.5	-	1.2	-
343	Plumbing and heating, except electric	5.2	-	2.1	-	2.9	-	3.7	-	1.6	-	1.5	-
344	Fabricated structural metal products	4.6	-	3.1	-	1.3	-	3.7	-	1.9	-	1.0	-
3441	Fabricated structural metal	5.2	-	3.9	-	1.0	-	4.2	-	2.2	-	1.1	-
3442	Metal doors, sash, and trim	6.3	-	4.0	-	2.1	-	4.0	-	2.5	-	.5	-
3443	Fabricated plate work (boiler shops)	2.8	-	1.9	-	.7	-	2.7	-	1.2	-	.8	-
3444	Sheet metal work	4.9	-	3.5	-	1.4	-	4.0	-	2.0	-	1.1	-
345	Screw machine products, bolts, etc.	4.1	-	2.3	-	1.7	-	3.5	-	1.7	-	1.1	-
3451	Screw machine products	4.7	-	3.0	-	1.7	-	3.9	-	2.2	-	1.2	-
3452	Bolts, nuts, rivets, and washers	3.5	-	1.8	-	1.6	-	3.1	-	1.3	-	1.0	-
346	Metal forgings and stampings	5.8	-	1.8	-	3.2	-	4.2	-	1.1	-	2.4	-
3462	Iron and steel forgings	4.0	-	2.1	-	1.8	-	4.1	-	1.3	-	2.1	-
3465	Automotive stampings	9.1	-	1.1	-	6.0	-	4.4	-	.7	-	3.3	-
3469	Metal stampings, nec	4.3	-	2.3	-	1.9	-	4.0	-	1.3	-	1.8	-
347	Metal services, nec	5.4	-	3.6	-	1.6	-	4.6	-	2.3	-	1.4	-
348	Ordnance and accessories, nec	2.2	-	1.2	-	.7	-	2.7	-	.9	-	1.1	-
349	Misc. fabricated metal products	3.9	-	2.3	-	1.4	-	3.8	-	1.6	-	1.4	-
3494	Valves and pipe fittings	2.8	-	1.7	-	.9	-	3.1	-	1.1	-	1.2	-
3496	Misc. fabricated wire products	4.9	-	3.3	-	1.5	-	4.5	-	2.3	-	1.4	-

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	
		Sept. 1980	Oct. 1980 ^P	Sept. 1980	Oct. 1980 ^P	Sept. 1980	Oct. 1980 ^P	Sept. 1980	Oct. 1980 ^P	Sept. 1980	Oct. 1980 ^P	Sept. 1980	Oct. 1980 ^P
35	MACHINERY, EXCEPT ELECTRICAL	2.9	2.6	1.7	1.5	0.8	0.8	2.9	2.5	1.2	0.9	1.0	0.9
351	Engines and turbines	2.8	-	.4	-	1.6	-	2.9	-	.4	-	1.5	-
3511	Turbines and turbine generator sets	1.5	-	.7	-	.1	-	1.5	-	.4	-	.2	-
3519	Internal combustion engines, nec	3.4	-	.3	-	2.2	-	3.5	-	.3	-	2.0	-
352	Farm and garden machinery	3.9	-	1.2	-	2.4	-	4.4	-	.9	-	2.5	-
3523	Farm machinery and equipment	3.6	-	1.2	-	2.1	-	4.4	-	.9	-	2.4	-
353	Construction and related machinery	2.6	-	1.7	-	.6	-	2.6	-	1.1	-	.8	-
3531	Construction machinery	2.0	-	.5	-	1.0	-	1.9	-	.5	-	.9	-
3533	Oil field machinery	4.2	-	3.9	-	.1	-	2.8	-	1.9	-	.1	-
354	Metalworking machinery	2.4	-	1.6	-	.6	-	2.7	-	1.2	-	.9	-
3541	Machine tools, metal cutting types	1.6	-	1.3	-	.1	-	1.5	-	1.0	-	.1	-
3544	Special dies, tools, jigs, and fixtures	3.3	-	2.2	-	.9	-	3.5	-	1.4	-	1.2	-
3545	Machine tool accessories	1.8	-	1.3	-	.4	-	3.0	-	1.1	-	1.3	-
355	Special industry machinery	2.3	-	1.7	-	.4	-	2.9	-	1.3	-	.9	-
3551	Food products machinery	2.3	-	1.6	-	.6	-	3.5	-	1.4	-	1.3	-
3552	Textile machinery	2.7	-	1.7	-	.8	-	2.6	-	1.3	-	.6	-
356	General industrial machinery	2.2	-	1.3	-	.7	-	2.8	-	1.1	-	1.1	-
3561	Pumps and pumping equipment	2.1	-	1.6	-	.5	-	2.4	-	1.1	-	.8	-
3562	Ball and roller bearings	2.0	-	.8	-	.3	-	3.1	-	1.0	-	1.4	-
3564	Blowers and fans	2.6	-	1.6	-	.8	-	3.9	-	1.4	-	1.9	-
357	Office and computing machines	2.6	-	2.2	-	.1	-	2.3	-	1.2	-	.1	-
3573	Electronic computing equipment	2.5	-	2.2	-	.1	-	2.3	-	1.2	-	.1	-
358	Refrigeration and service machinery	4.7	-	1.8	-	1.8	-	2.9	-	1.1	-	.9	-
3585	Refrigeration and heating equipment	5.4	-	1.5	-	2.3	-	3.0	-	1.0	-	.9	-
359	Misc. machinery, except electrical	3.7	-	2.5	-	1.1	-	3.9	-	1.7	-	1.4	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	3.3	2.8	1.9	1.6	.8	.8	3.0	2.7	1.4	1.1	.8	.7
361	Electric distributing equipment	3.7	-	1.9	-	1.0	-	3.1	-	1.4	-	.6	-
3612	Transformers	3.0	-	1.6	-	.5	-	3.0	-	1.4	-	.7	-
3613	Switchgear and switchboard apparatus	4.3	-	2.2	-	1.3	-	3.2	-	1.5	-	.6	-
362	Electrical industrial apparatus	3.1	-	1.1	-	1.6	-	2.9	-	1.1	-	1.1	-
3621	Motors and generators	3.7	-	1.1	-	2.1	-	2.9	-	1.0	-	1.0	-
3622	Industrial controls	3.0	-	1.3	-	1.1	-	3.1	-	1.2	-	1.2	-
363	Household appliances	4.7	-	2.0	-	1.9	-	3.8	-	1.1	-	1.3	-
3632	Household refrigerators and freezers	4.8	-	.1	-	2.6	-	4.0	-	.3	-	2.0	-
3633	Household laundry equipment	4.7	-	1.8	-	2.3	-	2.7	-	.5	-	.6	-
3634	Electric housewares and fans	5.3	-	3.9	-	.9	-	3.8	-	2.0	-	.4	-
364	Electric lighting and wiring equipment	3.3	-	1.7	-	1.1	-	3.1	-	1.3	-	1.0	-
3641	Electric lamps	2.1	-	.9	-	.8	-	3.6	-	.7	-	2.2	-
3643	Current-carrying wiring devices	2.8	-	1.7	-	.8	-	2.8	-	1.2	-	.8	-
365	Radio and TV receiving equipment	5.0	-	1.7	-	.4	-	3.7	-	1.2	-	1.0	-
3651	Radio and TV receiving sets	5.5	-	1.5	-	.4	-	3.3	-	.9	-	.7	-
366	Communication equipment	2.2	-	1.8	-	.1	-	2.2	-	1.3	-	.4	-
3661	Telephone and telegraph apparatus	1.2	-	.8	-	.2	-	2.1	-	.7	-	.9	-
3662	Radio and TV communication equipment	2.6	-	2.2	-	.1	-	2.2	-	1.5	-	.2	-
367	Electronic components and accessories	3.3	-	2.6	-	.5	-	3.6	-	1.9	-	.8	-
3671-3	Electronic tubes	1.9	-	1.4	-	.2	-	2.4	-	1.1	-	.4	-
3674	Semiconductors and related devices	2.5	-	2.0	-	.3	-	2.8	-	1.5	-	.6	-
3679	Electronic components, nec	4.4	-	3.4	-	.6	-	4.2	-	2.4	-	.9	-
369	Misc. electrical equipment and supplies	4.3	-	1.9	-	1.2	-	2.9	-	1.0	-	1.0	-
3694	Engine electrical equipment	5.2	-	1.4	-	1.7	-	3.2	-	.7	-	1.4	-
37	TRANSPORTATION EQUIPMENT	5.0	-	1.6	-	2.9	-	3.2	-	1.0	-	1.4	-
371	Motor vehicles and equipment	7.7	-	1.0	-	5.8	-	3.7	-	.8	-	1.9	-
3711	Motor vehicles and car bodies	8.4	-	1.0	-	6.8	-	3.0	-	.6	-	1.4	-
3713	Truck and bus bodies	8.2	-	1.3	-	5.2	-	5.8	-	1.5	-	3.1	-
3714	Motor vehicle parts and accessories	7.2	-	.8	-	5.2	-	4.0	-	.9	-	2.2	-
3715,6	Truck trailers and motor homes	5.5	-	2.1	-	3.1	-	5.0	-	1.3	-	2.9	-
372	Aircraft and parts	2.1	-	1.6	-	.2	-	1.6	-	.9	-	.2	-
3721	Aircraft	2.0	-	1.5	-	.2	-	1.4	-	.8	-	.2	-
3724	Aircraft engines and engine parts	1.5	-	1.1	-	.1	-	1.3	-	.6	-	.1	-
3728	Aircraft equipment, nec	2.8	-	2.3	-	.4	-	2.6	-	1.4	-	.3	-
373	Ship and boat building and repairing	6.1	-	3.6	-	2.4	-	5.5	-	1.8	-	2.8	-
3731	Ship building and repairing	5.9	-	3.4	-	2.5	-	5.7	-	1.6	-	3.1	-
3732	Boat building and repairing	6.6	-	4.2	-	2.4	-	4.6	-	2.3	-	1.4	-
374	Railroad equipment	2.4	-	.5	-	1.1	-	6.9	-	.5	-	4.9	-
376	Guided missiles, space vehicles, parts	2.3	-	1.8	-	.2	-	1.8	-	1.1	-	.3	-
3761	Guided missiles and space vehicles	2.5	-	2.0	-	.2	-	1.8	-	1.1	-	.3	-
379	Miscellaneous transportation equipment	10.1	-	6.3	-	3.3	-	5.0	-	2.8	-	1.0	-
38	INSTRUMENTS AND RELATED PRODUCTS	2.8	2.4	2.2	1.8	.4	.4	2.9	2.4	1.9	1.2	.4	.6
381	Engineering and scientific instruments	3.3	-	3.1	-	.1	-	2.0	-	1.4	-	.2	-
382	Measuring and controlling devices	2.6	-	1.9	-	.4	-	2.3	-	1.4	-	.3	-
3822	Environmental controls	2.9	-	1.5	-	1.2	-	2.5	-	1.3	-	.5	-
3823	Process control instruments	2.8	-	2.3	-	.3	-	2.1	-	1.3	-	.2	-
3825	Instruments to measure electricity	1.8	-	1.3	-	.1	-	2.1	-	1.4	-	.2	-

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	
		Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980
	INSTRUMENTS AND RELATED PRODUCTS—Con'd												
383	Optical instruments and lenses	2.8	-	2.6	-	0.1	-	2.7	-	1.9	-	0.2	-
384	Medical instruments and supplies	3.3	-	2.6	-	.5	-	3.4	-	1.8	-	.8	-
3841	Surgical and medical instruments	3.3	-	2.6	-	.4	-	4.5	-	2.4	-	1.1	-
3842	Surgical appliances and supplies	3.5	-	2.6	-	.7	-	2.5	-	1.2	-	.7	-
385	Ophthalmic goods	3.6	-	2.3	-	.8	-	4.3	-	2.5	-	1.0	-
386	Photographic equipment and supplies	1.7	-	1.5	-	.1	-	3.3	-	2.9	-	.1	-
387	Watches, clocks, and watchcases	3.8	-	1.8	-	1.7	-	3.1	-	1.2	-	1.0	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	5.8	4.4	4.0	3.2	1.6	1.0	5.0	5.2	2.6	2.0	1.3	2.2
391	Jewelry, silverware, and plated ware	6.7	-	5.0	-	1.6	-	3.7	-	2.4	-	.8	-
393	Musical instruments	4.7	-	2.9	-	1.4	-	4.9	-	2.3	-	1.8	-
394	Toys and sporting goods	7.1	-	4.8	-	1.8	-	6.5	-	3.4	-	1.7	-
3942.4	Dolls, games, toys, and children's vehicles	8.6	-	6.2	-	1.9	-	8.3	-	4.6	-	2.2	-
3949	Sporting and athletic goods, nec	5.6	-	3.2	-	1.8	-	4.5	-	2.2	-	1.1	-
395	Pens, pencils, office and art supplies	3.3	-	2.5	-	.4	-	3.2	-	1.7	-	.5	-
396	Costume jewelry and notions	6.5	-	4.7	-	1.8	-	6.8	-	3.7	-	1.8	-
399	Miscellaneous manufactures	4.8	-	3.1	-	1.7	-	4.1	-	2.0	-	1.3	-
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	7.2	5.6	4.9	3.8	2.2	1.5	8.3	8.5	3.8	2.7	3.5	4.9
201	Meat products	6.6	-	5.0	-	1.2	-	6.7	-	4.1	-	1.5	-
2011	Meat packing plants	4.3	-	2.6	-	1.2	-	4.3	-	1.9	-	1.6	-
2013	Sausages and other prepared meats	4.1	-	2.4	-	1.6	-	5.5	-	1.9	-	2.9	-
2016	Poultry dressing plants	10.7	-	9.3	-	1.0	-	10.4	-	8.1	-	.7	-
202	Dairy products	3.3	-	2.8	-	.4	-	4.5	-	2.8	-	.9	-
203	Preserved fruits and vegetables	18.1	-	10.4	-	7.6	-	22.2	-	7.9	-	13.0	-
204	Grain mill products	3.8	-	3.0	-	.7	-	3.6	-	1.9	-	1.0	-
205	Bakery products	3.1	-	2.6	-	.4	-	3.6	-	2.2	-	.8	-
2051	Bread, cake, and related products	2.8	-	2.5	-	.2	-	3.6	-	2.3	-	.7	-
2052	Cookies and crackers	4.3	-	3.0	-	1.2	-	3.6	-	1.5	-	1.4	-
206	Sugar and confectionery products	5.9	-	3.6	-	2.2	-	5.2	-	2.1	-	2.4	-
207	Fats and oils	4.5	-	2.5	-	1.8	-	3.2	-	1.7	-	.9	-
208	Beverages	4.0	-	2.8	-	1.0	-	5.1	-	2.4	-	1.7	-
2082	Malt beverages	2.7	-	.9	-	1.6	-	5.6	-	.8	-	4.1	-
2086	Bottled and canned soft drinks	3.8	-	3.4	-	.2	-	5.3	-	3.3	-	.9	-
209	Misc. foods and kindred products	7.1	-	5.3	-	1.6	-	7.3	-	4.0	-	2.4	-
21	TOBACCO MANUFACTURES	6.0	-	3.4	-	2.0	-	3.0	-	1.6	-	.5	-
211	Cigarettes	1.8	-	.8	-	.2	-	1.6	-	.6	-	(1)	-
22	TEXTILE MILL PRODUCTS	3.7	3.5	2.7	2.7	.8	.6	3.8	3.8	2.2	2.1	.7	.9
221	Weaving mills, cotton	2.7	-	2.2	-	.1	-	3.2	-	2.0	-	.3	-
222	Weaving mills, synthetics	3.1	-	2.5	-	.4	-	3.5	-	2.2	-	.5	-
223	Weaving and finishing mills, wool	3.7	-	2.1	-	1.4	-	4.8	-	2.0	-	2.0	-
224	Narrow fabric mills	4.6	-	3.6	-	.9	-	4.2	-	2.5	-	.8	-
225	Knitting mills	4.4	-	3.2	-	.9	-	4.6	-	2.6	-	1.0	-
2251	Women's hosiery, except socks	3.0	-	2.6	-	.3	-	3.9	-	2.6	-	.3	-
2252	Hosiery, nec	4.8	-	4.0	-	.6	-	4.2	-	3.4	-	.3	-
2253	Knit outerwear mills	5.5	-	4.0	-	1.3	-	4.5	-	2.6	-	.9	-
2254	Knit underwear mills	3.4	-	3.0	-	.3	-	3.7	-	2.6	-	.5	-
2257	Circular knit fabric mills	3.9	-	2.4	-	1.3	-	6.2	-	2.3	-	2.0	-
226	Textile finishing, except wool	3.3	-	2.2	-	.8	-	3.8	-	1.9	-	1.0	-
227	Floor covering mills	3.8	-	2.4	-	1.0	-	3.4	-	1.9	-	.6	-
228	Yarn and thread mills	3.5	-	2.8	-	.6	-	3.9	-	2.6	-	.6	-
229	Miscellaneous textile goods	4.7	-	2.4	-	2.0	-	3.0	-	1.6	-	.6	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	6.0	5.0	3.9	3.3	1.8	1.5	5.8	5.6	3.2	2.7	1.7	2.0
231	Men's and boys' suits and coats	3.9	-	2.4	-	1.0	-	5.3	-	2.0	-	2.5	-
232	Men's and boys' furnishings	5.1	-	3.8	-	1.0	-	5.7	-	3.9	-	1.1	-
2321	Men's and boys' shirts and nightwear	4.9	-	3.3	-	1.3	-	5.0	-	3.5	-	.8	-
2327	Men's and boys' separate trousers	4.8	-	4.2	-	.4	-	4.8	-	3.9	-	.3	-
2328	Men's and boys' work clothing	5.3	-	4.4	-	.7	-	6.6	-	4.5	-	1.4	-
233	Women's and misses' outerwear	6.4	-	3.9	-	2.3	-	6.4	-	2.9	-	2.4	-
234	Women's and children's undergarments	6.1	-	4.8	-	1.1	-	5.3	-	3.7	-	.7	-
2341	Women's and children's underwear	6.3	-	5.0	-	1.2	-	5.5	-	4.0	-	.6	-
2342	Brassieres and allied garments	5.0	-	4.1	-	.6	-	4.6	-	2.4	-	1.2	-
236	Children's outerwear	7.4	-	4.4	-	2.5	-	5.4	-	3.3	-	1.0	-
238	Misc. apparel and accessories	6.2	-	4.1	-	1.9	-	5.6	-	3.0	-	1.6	-
239	Misc. fabricated textile products	7.1	-	4.2	-	2.6	-	5.7	-	2.8	-	2.0	-
26	PAPER AND ALLIED PRODUCTS	2.7	2.2	1.8	1.4	.8	.7	3.4	2.5	1.5	.9	1.2	.9
261,2,6	Paper and pulp mills	1.6	-	1.0	-	.4	-	2.7	-	1.3	-	.8	-
262	Paper mills, except building paper	1.4	-	.9	-	.4	-	2.6	-	1.3	-	.6	-

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	
		Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980	Sept. 1980	Oct. p 1980 ^P
	PAPER AND ALLIED PRODUCTS—Continued												
263	Paperboard mills	1.8	-	1.0	-	0.7	-	3.3	-	1.2	-	1.5	-
264	Misc. converted paper products	3.1	-	2.3	-	.7	-	3.9	-	1.7	-	1.3	-
265	Paperboard containers and boxes	3.8	-	2.4	-	1.2	-	3.7	-	1.5	-	1.4	-
2651	Folding paperboard boxes	3.7	-	2.3	-	1.2	-	3.1	-	1.5	-	.9	-
2653	Corrugated and solid fiber boxes	3.2	-	2.0	-	1.0	-	3.0	-	1.3	-	.9	-
27	PRINTING AND PUBLISHING	3.6	3.2	3.0	2.6	.5	0.5	3.6	3.2	2.3	1.7	.7	1.0
271	Newspapers	3.9	-	3.6	-	.2	-	3.9	-	3.2	-	.2	-
272	Periodicals	3.3	-	3.1	-	.2	-	3.2	-	2.3	-	.2	-
273	Books	3.4	-	2.6	-	.7	-	3.9	-	1.8	-	1.6	-
274	Miscellaneous publishing	3.9	-	3.4	-	.4	-	3.6	-	2.5	-	.3	-
275	Commercial printing	3.3	-	2.4	-	.8	-	3.2	-	1.5	-	1.0	-
2751	Commercial printing, letterpress	3.2	-	2.3	-	.9	-	3.2	-	1.6	-	1.1	-
2752	Commercial printing, lithographic	3.4	-	2.4	-	.7	-	3.1	-	1.4	-	.9	-
278	Blankbooks and bookbinding	3.9	-	3.2	-	.7	-	4.0	-	2.3	-	1.1	-
28	CHEMICALS AND ALLIED PRODUCTS	1.7	1.5	1.2	1.0	.4	.3	2.1	1.5	1.0	.6	.5	.4
281	Industrial inorganic chemicals	1.3	-	1.0	-	.2	-	2.1	-	.7	-	1.0	-
2819	Industrial inorganic chemicals, nec	1.3	-	1.0	-	.2	-	1.7	-	.7	-	.6	-
282	Plastics materials and synthetics	1.3	-	.6	-	.6	-	1.4	-	.6	-	.4	-
2821	Plastics materials and resins	1.8	-	1.0	-	.7	-	1.6	-	.8	-	.2	-
2824	Organic fibers, noncellulosic	.9	-	.2	-	.6	-	1.0	-	.4	-	.3	-
283	Drugs	1.6	-	1.3	-	.2	-	1.9	-	1.0	-	.3	-
2834	Pharmaceutical preparations	1.7	-	1.4	-	.2	-	2.0	-	1.1	-	.3	-
284	Soap, cleaners, and toilet goods	2.7	-	2.1	-	.5	-	3.2	-	1.8	-	.8	-
2841	Soap and other detergents	1.9	-	1.3	-	.6	-	2.7	-	.7	-	1.4	-
2844	Toilet preparations	3.4	-	2.6	-	.6	-	3.1	-	2.2	-	.4	-
285	Paints and allied products	2.1	-	1.6	-	.4	-	3.3	-	1.6	-	1.0	-
286	Industrial organic chemicals	.9	-	.7	-	.2	-	1.4	-	.6	-	.2	-
287	Agricultural chemicals	2.3	-	1.4	-	.8	-	2.4	-	1.2	-	.6	-
289	Miscellaneous chemical products	3.0	-	1.7	-	1.1	-	2.2	-	1.0	-	.5	-
29	PETROLEUM AND COAL PRODUCTS	2.1	2.0	1.7	1.7	.3	.2	2.2	1.9	.9	.6	.6	.9
291	Petroleum refining	1.6	-	1.4	-	.1	-	1.8	-	.7	-	.5	-
295	Paving and roofing materials	4.2	-	2.9	-	1.1	-	4.3	-	2.0	-	1.1	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	5.5	4.3	3.4	2.7	1.8	1.2	4.6	4.2	2.3	1.9	1.3	1.3
301	Tires and inner tubes	2.9	-	.5	-	2.1	-	1.7	-	.4	-	.8	-
302	Rubber and plastics footwear	6.8	-	5.7	-	.7	-	7.7	-	4.4	-	1.5	-
303.4	Reclaimed rubber, and rubber and plastics hose and belting	6.1	-	1.8	-	4.1	-	2.0	-	.9	-	.5	-
306	Fabricated rubber products, nec	4.3	-	2.0	-	2.0	-	3.6	-	1.4	-	1.4	-
307	Miscellaneous plastics products	6.3	-	4.2	-	1.7	-	5.4	-	2.9	-	1.4	-
31	LEATHER AND LEATHER PRODUCTS	6.5	5.9	5.1	4.6	1.1	1.0	6.9	6.4	4.1	3.2	1.7	2.3
311	Leather tanning and finishing	4.4	-	3.4	-	.9	-	4.8	-	2.6	-	1.3	-
314	Footwear, except rubber	6.6	-	5.2	-	.9	-	6.5	-	4.5	-	1.0	-
3143	Men's footwear, except athletic	6.2	-	5.4	-	.3	-	6.0	-	4.7	-	.3	-
3144	Women's footwear, except athletic	6.3	-	4.4	-	1.4	-	6.4	-	4.1	-	1.5	-
	NONMANUFACTURING:												
-	MINING	4.9	4.7	4.0	3.8	.5	.5	5.0	4.3	3.1	2.9	.9	.6
10	METAL MINING	2.9	2.0	1.3	1.5	1.0	.4	6.4	2.0	1.7	1.0	3.4	.5
101	Iron ores	6.0	-	.4	-	3.7	-	13.3	-	.4	-	10.0	-
102	Copper ores	1.2	-	.8	-	.1	-	1.8	-	.8	-	.6	-
12	BITUMINOUS COAL AND LIGNITE MINING	1.7	1.1	.9	.7	.6	.3	2.9	1.8	.7	.6	1.8	.8
13	OIL AND GAS EXTRACTION	7.1	7.3	6.2	6.1	.5	.7	6.2	6.0	4.7	4.6	.2	.4
131.2	Crude petroleum, natural gas, and natural gas liquids	2.5	-	2.0	-	.3	-	2.5	-	1.7	-	.1	-
138	Oil and gas field services	10.1	-	9.0	-	.6	-	8.6	-	6.7	-	.2	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	2.4	2.2	1.8	1.7	.5	.4	2.8	3.4	1.6	1.4	.6	1.2
142	Crushed and broken stone	1.9	-	1.2	-	.5	-	2.7	-	1.4	-	.8	-
144	Sand and gravel	3.0	-	2.2	-	.7	-	3.4	-	2.0	-	.9	-
-	COMMUNICATION:												
481	Telephone communication	.9	-	.8	-	(1)	-	1.2	-	.6	-	.3	-

¹ Less than 0.05.

o=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED LABOR TURNOVER

D-3. Labor turnover rates in manufacturing, 1970 to date, seasonally adjusted

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions												
1970.....	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971.....	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972.....	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973.....	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974.....	4.7	4.6	4.5	4.6	4.5	4.3	4.3	4.1	4.0	3.8	3.3	3.1
1975.....	3.0	3.2	3.2	3.6	3.7	3.8	4.0	4.0	3.9	3.8	3.8	3.8
1976.....	4.2	4.1	4.2	4.0	4.0	3.8	3.9	3.8	3.7	3.7	3.8	3.9
1977.....	4.0	4.4	4.0	4.0	4.0	4.0	4.0	3.9	3.9	4.0	4.1	4.4
1978.....	4.1	3.9	4.0	4.2	4.0	4.0	4.0	4.1	4.2	4.3	4.3	4.4
1979.....	4.2	4.1	4.0	4.0	4.0	4.0	3.9	3.9	3.9	4.1	4.0	3.9
1980.....	3.9	3.9	3.6	3.0	3.0	3.3	3.4	3.6	3.8	P3.9		
New hires												
1970.....	3.3	3.2	2.9	2.8	2.7	2.0	2.8	2.7	2.6	2.5	2.4	2.4
1971.....	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972.....	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973.....	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974.....	3.8	3.7	3.6	3.5	3.5	3.3	3.3	3.1	3.0	2.7	2.3	1.9
1975.....	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.4	2.3	2.4	2.5
1976.....	2.6	2.7	2.9	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.5	2.6
1977.....	2.7	2.8	2.8	2.9	3.0	2.8	2.8	2.8	2.8	2.9	2.9	3.2
1978.....	3.0	2.9	3.0	3.1	3.0	3.0	3.0	3.1	3.2	3.3	3.4	3.4
1979.....	3.2	3.2	3.1	3.0	3.0	3.0	2.8	2.8	2.8	2.9	2.9	2.9
1980.....	2.8	2.8	2.5	2.1	1.8	1.8	1.9	1.9	2.1	P2.0		
Total separations												
1970.....	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971.....	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972.....	4.2	4.1	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973.....	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974.....	5.1	5.0	4.9	4.7	4.6	4.5	4.5	4.8	4.4	4.8	5.2	4.9
1975.....	5.2	5.1	4.6	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.8	3.5
1976.....	3.6	3.6	3.8	3.9	3.7	3.9	3.9	4.0	3.9	3.8	3.6	3.6
1977.....	3.9	4.1	3.8	3.7	3.8	3.7	3.9	3.9	3.9	3.7	3.8	3.9
1978.....	3.8	3.8	3.8	4.0	3.9	3.9	3.9	3.8	3.8	4.0	4.0	4.1
1979.....	4.0	4.0	3.9	4.1	4.0	4.1	3.9	4.3	3.9	4.0	4.1	4.0
1980.....	4.1	4.0	4.3	5.3	5.7	5.1	3.8	3.9	3.5	P3.5		
Quits												
1970.....	2.4	2.5	2.3	2.3	2.1	2.2	2.1	2.0	2.0	1.9	1.8	1.9
1971.....	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972.....	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.6
1973.....	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974.....	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.2	2.0	1.8	1.7
1975.....	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976.....	1.6	1.7	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.6	1.5	1.6
1977.....	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9	1.9	1.9	2.0
1978.....	1.9	1.9	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2
1979.....	2.2	2.2	2.1	2.1	2.0	2.0	1.9	2.0	1.9	2.0	2.0	1.9
1980.....	1.9	1.9	1.9	1.5	1.4	1.4	1.3	1.3	1.3	P1.3		
Layoffs												
1970.....	1.5	1.7	1.8	1.9	1.9	1.9	1.5	1.9	1.9	2.2	2.0	1.7
1971.....	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972.....	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973.....	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974.....	1.4	1.3	1.2	1.1	1.1	1.1	1.1	1.4	1.3	1.8	2.5	2.5
1975.....	2.9	3.0	2.7	2.6	2.5	2.2	1.7	1.6	1.7	1.5	1.5	1.3
1976.....	1.2	1.0	1.2	1.3	1.2	1.3	1.3	1.4	1.4	1.4	1.3	1.2
1977.....	1.3	1.5	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.0	1.0	1.0
1978.....	1.0	1.0	1.0	1.0	1.0	.9	.9	.9	.8	.9	.9	1.0
1979.....	.9	.9	.9	1.1	1.0	1.2	1.1	1.4	1.2	1.2	1.3	1.2
1980.....	1.3	1.3	1.5	2.9	3.5	2.9	1.7	1.9	1.5	P1.4		

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	
	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p
ALABAMA:												
Birmingham	3.4	3.7	1.5	1.2	1.7	2.5	5.0	4.9	1.1	0.9	2.8	3.2
Mobile	7.3	8.9	2.4	1.8	4.9	7.1	9.9	6.9	1.8	2.0	7.4	4.2
ALASKA	26.0	15.4	25.3	11.1	8.2	4.0	35.7	17.5	4.6	2.5	18.2	14.6
ARIZONA	4.0	4.8	3.3	4.0	.6	.6	4.7	3.6	2.7	2.1	1.0	.5
Phoenix	4.0	4.9	3.3	4.2	.6	.6	4.6	3.5	2.5	2.1	1.0	.5
ARKANSAS	6.6	5.9	4.1	4.1	2.2	1.3	6.0	5.0	4.1	2.9	.8	1.0
Fort Smith	7.5	6.2	3.0	3.2	3.8	1.8	5.5	4.8	3.0	2.8	1.1	.3
Little Rock—North Little Rock	4.3	3.9	3.1	3.1	1.0	.5	4.2	3.2	2.4	1.8	.6	.6
Pine Bluff	4.5	3.6	3.3	2.5	1.0	1.0	3.3	4.7	2.2	1.9	.4	2.1
CALIFORNIA	3.1	3.9	2.7	3.5	.4	.4	15.3	3.5	2.4	1.7	11.7	.1
COLORADO	4.3	3.8	3.3	2.9	.9	.8	4.3	4.8	3.0	3.0	.7	1.2
Denver—Boulder	3.5	3.6	2.8	3.0	.6	.6	4.1	4.1	2.8	2.4	.7	1.0
CONNECTICUT	2.3	2.6	1.5	1.8	.6	.6	3.0	2.6	1.7	1.4	.5	.5
Hartford	1.6	2.2	1.3	1.7	.2	.3	2.8	1.8	1.7	1.2	.3	.1
DELAWARE	5.5	5.6	1.5	2.0	3.8	3.2	2.6	2.4	1.5	1.2	.4	.4
Wilmington	5.0	5.3	.9	1.3	3.8	3.5	1.7	1.8	.9	.7	.5	.5
FLORIDA	5.1	5.2	4.2	4.3	.7	.8	5.0	4.7	3.2	3.1	.7	.6
Fort Lauderdale—Hollywood	5.6	5.8	4.9	5.2	.6	.5	5.5	5.2	4.0	3.3	.3	.5
Jacksonville	5.0	3.9	4.1	2.9	.8	1.0	5.1	4.5	2.5	2.0	1.2	1.4
Miami	4.9	5.4	4.2	4.6	.6	.7	4.9	4.3	2.8	2.9	1.2	.5
Orlando	3.9	4.2	3.0	3.3	.8	.7	3.1	4.1	2.2	3.2	.2	.3
Pensacola	2.3	1.6	1.7	1.4	.5	.2	2.5	2.2	1.6	1.2	.1	(¹)
Tampa—St. Petersburg	5.6	5.6	4.8	4.8	.7	.7	5.7	5.1	4.0	3.6	.7	.5
West Palm Beach—Boca Raton	4.4	3.6	3.9	2.9	.5	.5	4.2	3.5	2.9	2.5	.3	.1
GEORGIA	3.7	4.0	2.8	3.3	.6	.5	3.7	4.3	2.4	2.8	.4	.5
Atlanta	3.8	3.4	2.7	2.8	.6	.3	3.2	3.4	2.1	1.8	.3	.9
HAWAII	2.7	3.3	1.5	1.8	1.1	1.4	4.3	4.2	1.6	1.0	1.9	2.6
IDAHO	4.6	4.0	2.5	2.8	2.0	1.1	3.3	3.5	2.0	1.8	.6	.6
ILLINOIS:												
Chicago SMSA	2.8	3.1	1.6	1.7	.9	1.1	3.7	3.1	1.6	1.3	1.0	.9
Davenport—Rock Island—Moline	2.0	1.6	.9	.5	.9	.9	2.8	3.0	.8	.5	1.3	1.7
Decatur	1.1	3.1	.7	.3	.2	2.8	4.5	4.5	.6	.2	3.0	3.7
Peoria	1.6	2.1	.4	.4	1.2	1.4	2.2	2.3	.6	.4	1.2	1.3
Rockford	2.2	2.0	1.0	1.0	1.0	.9	3.0	2.8	1.4	.9	.9	1.4
INDIANA	4.2	4.3	1.3	1.3	2.0	1.8	4.1	3.2	1.4	1.0	1.9	1.5
Indianapolis	2.6	4.4	1.1	1.6	.9	1.7	3.9	3.5	1.4	1.0	1.5	1.5
IOWA	3.3	3.0	1.6	1.3	1.4	1.3	10.6	3.5	1.6	1.2	8.4	1.6
Cedar Rapids	3.2	2.0	.4	.9	2.2	.7	3.1	3.1	.7	.8	1.8	1.5
Des Moines	4.0	3.4	2.5	1.2	1.1	1.8	3.9	2.6	2.0	1.5	1.0	.4
KANSAS	4.2	5.8	3.0	3.3	.8	2.2	9.5	3.9	3.5	2.1	4.9	1.0
Topeka	1.8	1.8	1.2	1.0	.5	.7	6.0	3.5	1.5	1.1	3.3	2.0
Wichita	4.2	4.6	3.1	3.4	.7	.9	4.5	3.4	3.0	2.3	.4	.2
KENTUCKY	6.5	4.4	1.2	1.5	4.5	2.6	6.7	4.4	1.6	1.2	3.9	2.2
Lexington—Fayette	6.9	4.2	1.0	1.7	5.7	2.1	3.3	3.1	1.2	1.2	1.3	.4
Louisville	11.9	2.9	.8	.7	6.8	1.7	16.1	2.3	1.0	.6	10.1	.7
LOUISIANA:												
New Orleans	5.1	5.2	4.4	4.3	.5	.8	6.4	4.8	3.7	2.6	1.1	.6
MAINE	7.1	5.2	5.1	3.7	1.8	1.3	6.3	6.6	3.5	3.3	1.8	2.3
Portland	3.4	4.0	3.0	3.4	.2	.3	3.9	5.3	2.2	3.8	.7	.4
MARYLAND	3.4	3.5	1.7	1.6	1.4	1.8	3.7	3.6	1.4	1.3	1.5	1.6
Baltimore	3.2	3.4	1.4	1.4	1.5	1.9	3.1	3.4	1.1	1.0	1.1	1.6

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Aug. 1980	Sept. 1980 ^P	Aug. 1980	Sept. 1980 ^P	Aug. 1980	Sept. 1980 ^P	Aug. 1980	Sept. 1980 ^P	Aug. 1980	Sept. 1980 ^P	Aug. 1980	Sept. 1980 ^P
MASSACHUSETTS	3.9	3.7	2.6	2.9	1.0	0.6	5.2	3.8	2.7	2.0	1.4	0.9
Boston	3.7	3.5	2.4	2.9	1.0	.3	5.7	3.1	2.8	1.6	1.8	.8
MICHIGAN	4.0	4.5	.7	1.9	2.4	2.1	3.7	3.1	.7	.8	2.2	1.6
Detroit	3.7	3.3	.6	1.1	2.5	1.8	3.5	1.9	.7	.4	2.0	.8
Flint	5.0	5.5	1.1	(*)	.2	(*)	5.1	4.2	.3	.3	3.8	2.7
Grand Rapids	4.3	2.9	.8	2.7	2.5	.1	1.9	5.8	.8	2.5	.5	2.9
Lansing—East Lansing	2.0	4.0	.8	3.2	.8	.7	6.2	1.8	.2	.2	5.6	1.3
MINNESOTA	4.6	4.2	2.8	2.7	1.6	1.3	4.7	4.6	2.3	2.6	1.6	1.4
Minneapolis—St. Paul	2.8	3.0	1.7	2.1	1.0	.7	3.3	2.9	1.9	1.9	.8	.5
MISSISSIPPI:												
Jackson	5.2	4.6	3.2	3.3	1.8	1.2	4.4	4.2	2.2	3.1	1.2	.3
MISSOURI	3.0	3.0	1.9	1.9	.9	.8	4.6	3.5	2.2	1.4	1.6	1.4
Kansas City	3.2	4.2	2.3	1.8	.7	2.2	7.4	3.8	2.4	1.3	4.0	1.9
St. Louis	2.4	2.6	1.3	1.3	.9	1.2	4.7	3.0	1.6	.9	2.4	1.5
MONTANA	11.3	2.8	1.7	1.4	9.6	1.2	4.0	3.6	2.7	2.8	.6	.1
NEBRASKA	3.5	3.8	2.4	2.8	1.0	.7	4.5	3.3	3.0	1.9	.9	.8
NEVADA	7.1	8.2	6.4	7.5	.6	.5	9.4	5.9	5.4	4.3	2.4	.6
NEW HAMPSHIRE	5.3	4.4	3.6	3.6	1.4	.5	6.0	4.4	4.2	2.9	.9	.8
NEW JERSEY:												
Camden ⁷	4.6	4.4	1.9	2.7	2.6	1.5	3.3	3.4	1.5	1.4	1.1	.9
Hackensack	5.2	4.7	3.2	3.5	1.7	1.1	6.2	4.5	2.7	2.3	2.3	1.2
Jersey City	4.2	3.3	2.7	2.3	1.4	.9	5.4	4.6	1.4	1.5	3.0	2.1
New Brunswick—Perth Amboy—Sayreville	4.2	4.3	2.2	2.8	1.9	1.3	3.5	3.8	1.9	1.7	.8	1.2
Newark	5.8	3.2	2.2	2.2	2.8	.7	4.3	3.1	2.0	1.3	1.3	.8
Paterson—Clifton—Passaic	7.6	4.3	2.4	2.4	4.9	1.8	5.8	3.8	2.0	1.7	2.6	1.4
Trenton	9.6	5.0	1.5	1.6	7.8	3.2	5.7	4.1	1.3	1.9	3.1	1.3
NEW YORK	4.5	4.3	2.3	2.3	2.1	1.7	4.4	3.9	1.8	1.6	1.8	1.5
Albany—Schenectady—Troy	5.2	3.3	1.3	1.3	3.3	1.5	5.1	2.9	1.2	1.1	2.9	.8
Binghamton	2.4	2.9	1.4	1.6	.8	1.0	2.7	2.6	1.5	1.2	.5	.9
Buffalo	4.0	5.0	.9	.8	2.9	3.8	5.2	3.5	.9	.7	3.5	2.3
Elmira	4.5	2.1	1.5	1.1	2.7	.5	3.0	2.9	1.7	1.4	.5	.6
Monroe County ⁸	2.6	2.6	1.5	1.6	1.1	.8	2.1	3.1	1.2	2.5	.4	.2
Nassau—Suffolk ⁹	4.4	4.9	3.3	4.0	1.0	.8	5.0	4.5	3.1	2.9	.9	.7
New York and Nassau—Suffolk	5.1	4.7	2.8	3.0	2.1	1.6	4.6	4.2	1.9	1.6	1.9	1.7
New York SMSA ⁹	5.3	4.6	2.7	2.7	2.4	1.8	4.5	4.1	1.5	1.3	2.1	1.9
New York City ¹⁰	5.7	4.9	2.9	2.8	2.8	2.0	4.7	4.4	1.5	1.3	2.3	2.1
Rochester	3.6	3.3	2.0	2.1	1.4	1.1	2.8	3.6	1.6	2.5	.6	.4
Syracuse	3.2	2.2	1.5	1.3	1.5	.8	3.5	3.2	1.5	1.3	1.3	1.3
Utica—Rome	4.2	3.2	1.6	1.9	2.5	1.2	5.0	4.2	1.5	1.3	2.5	2.3
Westchester County ¹⁰	2.9	2.9	1.9	2.2	.7	.5	3.4	2.6	1.7	1.4	.9	.7
NORTH CAROLINA	4.0	3.9	3.1	3.1	.7	.6	4.5	3.4	3.0	2.2	.6	.4
Charlotte—Gastonia	4.1	4.8	3.6	3.9	.4	.7	5.5	4.4	3.8	3.1	.6	.4
Greensboro—Winston-Salem—High Point	3.6	3.7	3.0	3.2	.3	.2	3.8	3.3	2.9	2.2	.2	.3
NORTH DAKOTA	3.5	5.9	2.3	2.5	.6	3.5	9.8	4.5	2.8	2.1	5.9	1.4
Fargo—Moorhead	2.7	5.2	1.9	2.0	.5	2.7	6.6	6.7	1.7	2.2	3.4	2.9
OHIO	3.5	3.7	.8	.9	(*)	(*)	3.8	3.0	.8	.8	2.2	1.4
Akron	1.8	1.9	.4	.7	(*)	(*)	2.9	2.2	.7	.5	1.7	1.2
Canton	3.0	2.9	1.0	.7	(*)	(*)	4.7	4.2	.9	.9	2.7	2.4
Cincinnati	3.4	2.3	.8	1.1	(*)	(*)	3.4	1.9	1.0	.8	1.8	.4
Cleveland	2.6	4.1	.7	1.0	(*)	(*)	3.5	2.9	1.0	.9	1.6	1.1
Columbus	2.7	5.7	1.3	1.1	(*)	(*)	5.6	2.3	.9	.9	4.1	.9
Dayton	2.6	3.1	.9	1.0	(*)	(*)	3.1	2.8	1.2	1.0	1.0	1.0
Toledo	4.7	3.4	.5	.6	(*)	(*)	3.1	3.2	.6	.7	1.4	1.7
Youngstown—Warren	5.3	3.0	.3	.5	(*)	(*)	3.5	2.4	.4	.3	2.1	1.2
OKLAHOMA	5.8	8.5	4.9	5.1	.8	3.3	9.2	5.1	4.9	3.8	3.2	.4
Oklahoma City	4.9	13.3	4.2	4.6	.5	8.6	13.3	4.7	4.0	3.5	8.3	.3
Tulsa	5.9	6.0	4.8	5.2	.6	.7	6.7	4.8	4.6	3.3	.8	.2
OREGON⁵	4.5	4.1	2.5	2.4	1.7	1.4	3.7	4.4	1.6	2.2	1.2	1.5
Eugene—Springfield ⁵	4.1	2.8	2.3	1.9	1.2	.8	2.3	3.8	1.1	1.8	.5	1.5
Portland ⁶	4.4	4.5	2.3	2.7	1.6	1.7	3.6	4.4	1.7	2.3	1.2	1.4

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	
	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p	Aug. 1980	Sept. 1980 ^p
PENNSYLVANIA	4.1	3.5	1.4	1.4	2.5	1.8	4.4	3.6	1.4	1.1	2.2	1.8
Allentown—Bethlehem—Easton	3.5	3.1	1.5	1.4	1.7	1.4	4.5	3.1	1.3	.9	2.4	1.7
Altoona	2.3	2.9	1.5	2.0	.8	.8	3.1	2.7	1.5	1.0	1.0	1.1
Erle	2.7	2.6	1.0	.9	1.2	1.1	3.2	3.7	1.0	.7	1.3	1.9
Harrisburgh	3.4	2.4	2.0	1.3	1.2	.8	3.3	3.6	2.0	1.5	.7	1.5
Johnstown	1.3	1.2	.4	.5	.9	.7	1.4	1.7	.8	.6	.3	1.0
Lancaster	3.8	2.8	1.7	1.7	1.8	.8	4.7	3.2	2.3	1.6	1.7	1.0
Northeast Pennsylvania	5.8	3.6	2.1	1.9	3.3	1.5	4.3	4.4	1.6	1.6	2.1	2.3
Philadelphia SMSA	3.2	3.1	1.6	1.8	1.3	1.1	3.8	3.0	1.7	1.3	1.3	1.0
Pittsburgh	5.0	5.0	.7	.7	4.0	3.8	5.7	3.6	.8	.7	3.9	2.1
Reading	6.5	4.2	2.1	2.1	4.3	1.9	3.5	3.3	1.7	1.4	1.1	1.2
Scranton ¹²	6.2	4.2	2.2	2.3	3.9	1.8	3.4	4.7	1.6	2.2	1.4	2.2
Wilkes-Barre—Hazleton ¹²	5.6	3.3	2.2	1.7	3.0	1.3	5.1	4.4	1.6	1.5	2.9	2.4
Williamsport	2.5	1.8	1.2	.9	1.1	.7	2.5	2.8	1.0	.5	.9	1.7
York	5.0	4.3	1.7	2.4	2.9	1.8	3.3	2.9	1.8	1.5	.9	1.0
RHODE ISLAND	5.8	5.4	3.2	3.9	2.4	1.2	5.6	4.9	2.6	2.9	2.0	1.3
Providence—Warwick—Pawtucket	6.3	5.9	3.3	4.1	2.7	1.5	6.1	5.0	2.7	2.9	2.4	1.3
SOUTH CAROLINA	3.7	3.7	2.6	2.4	.8	1.0	4.7	3.8	2.6	2.0	1.1	.8
Charleston—North Charleston	6.9	5.3	5.0	3.9	1.8	1.4	6.3	4.3	4.4	2.0	.8	1.1
Columbia	4.6	3.1	2.8	2.8	1.6	.2	5.5	4.7	2.9	2.2	1.7	1.5
Greenville—Spartanburg	3.6	3.6	3.0	2.6	.4	.8	4.6	3.8	2.7	2.3	.9	.5
SOUTH DAKOTA	2.3	2.3	1.4	1.4	.7	.7	4.7	3.5	2.5	1.5	.2	1.6
Sioux Falls	2.1	2.3	.9	1.0	1.2	1.3	2.7	4.1	1.3	1.3	1.1	2.6
TENNESSEE:												
Memphis	3.2	3.4	2.2	2.2	.9	1.0	3.5	2.9	1.7	1.4	.9	.6
TEXAS:												
Dallas—Fort Worth	4.7	5.3	4.4	4.0	.3	1.1	6.0	4.3	3.6	3.0	1.4	.4
Houston	4.1	4.2	3.8	4.0	.2	.2	4.9	3.8	3.6	2.7	.2	.2
San Antonio	4.8	4.9	4.2	4.4	.5	.3	6.2	5.0	4.7	3.4	.3	.4
UTAH⁴	4.8	5.3	4.1	4.5	.4	.5	5.6	5.6	3.3	3.6	1.1	1.0
Salt Lake City—Ogden ⁴	4.4	4.7	4.0	4.3	.3	.2	5.0	4.7	3.2	3.1	.8	.7
VERMONT	4.6	3.9	2.0	2.5	2.5	1.1	4.8	3.6	2.0	1.4	1.9	1.6
Burlington	2.4	3.0	1.7	2.2	.4	.4	3.8	2.3	.9	.7	2.4	1.2
Springfield	2.7	2.5	2.5	1.7	.2	.8	4.1	2.5	2.1	1.0	.7	.8
VIRGINIA	3.5	3.9	2.3	2.7	1.0	1.0	3.5	3.2	2.0	1.7	.8	.8
Richmond	3.0	2.7	1.4	1.9	1.5	.1	1.8	2.3	1.1	1.1	.2	.2
WASHINGTON:												
Seattle—Everett ¹³	2.4	2.1	1.7	1.7	.5	.3	2.4	2.6	1.1	1.3	.7	.9
WISCONSIN	4.7	3.2	2.0	1.5	2.2	1.2	4.9	4.6	2.1	1.4	1.7	2.4
Milwaukee	3.5	3.2	1.3	1.1	1.6	1.2	5.2	3.9	1.5	.8	2.3	2.1
WYOMING	5.7	7.2	5.2	6.1	.5	1.1	7.6	4.2	6.0	3.1	.4	.4

¹ Less than 0.05.

² Excludes agricultural chemicals, and miscellaneous manufacturing.

³ Excludes canned fruits, vegetables, preserves, jams, and jellies.

⁴ Excludes canning and preserving, and sugar.

⁵ Excludes canning and preserving.

⁶ Excludes canning and preserving, and newspapers.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

⁸ Subarea of Rochester Standard Metropolitan Statistical Area.

⁹ Area included in New York and Nassau-Suffolk combined SMSA's.

¹⁰ Subarea of New York Standard Metropolitan Statistical Area.

¹¹ Excludes new-hire rates for transportation equipment.

¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹³ Excludes canning and preserving, printing and publishing.

^p preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover except for data for the State of California which are collected and calculated by the Bureau of Labor Statistics (Washington Office).

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P
ALABAMA	1,656.6	1,637.6	1,648.8	114.1	149.8	143.1	6.9	9.1	8.7
Birmingham	380.4	386.8	386.9	24.5	39.1	38.6	6.4	10.1	10.0
Huntsville	139.1	139.1	138.7	9.4	12.9	11.6	6.7	9.3	8.3
Mobile	185.8	176.5	178.3	15.6	14.2	13.3	8.4	8.1	7.5
Montgomery	120.4	117.7	117.5	6.6	9.6	9.0	5.5	8.2	7.7
Tuscaloosa	52.0	51.9	52.5	2.7	4.2	4.0	5.2	8.0	7.6
ALASKA	181.5	189.8	188.1	13.6	14.5	16.2	7.5	7.6	8.6
ARIZONA	1,070.9	1,133.8	1,144.6	50.9	81.8	78.9	4.7	7.2	6.9
Phoenix	653.9	691.8	696.7	27.3	43.7	41.7	4.2	6.3	6.0
Tucson	192.7	205.4	208.4	8.1	13.3	13.2	4.2	6.5	6.3
ARKANSAS	980.1	1,002.1	999.0	52.4	73.1	72.5	5.3	7.3	7.3
Fayetteville-Springdale	76.9	78.9	78.3	2.9	4.0	3.8	3.7	5.0	4.8
Fort Smith ¹	83.6	84.2	83.9	6.0	8.2	8.1	7.1	9.7	9.6
Little Rock-North Little Rock	187.5	193.3	192.8	7.5	11.5	11.7	4.0	5.9	6.1
Pine Bluff	39.8	39.7	39.6	2.0	2.7	2.7	4.9	6.9	6.8
CALIFORNIA²	11,107.9	11,201.0	11,245.4	638.7	749.7	748.1	5.8	6.7	6.7
Anaheim-Santa Ana-Garden Grove	1,086.8	1,080.3	1,099.4	44.5	46.0	46.0	4.1	4.3	4.2
Bakersfield	176.1	175.3	174.6	13.7	12.2	13.2	7.8	7.0	7.6
Fresno	268.9	306.3	260.9	20.2	20.9	21.4	7.5	6.8	8.2
Los Angeles-Long Beach ²	3,484.0	3,591.0	3,640.0	183.0	269.0	264.0	5.3	7.5	7.3
Modesto	133.7	141.1	135.8	11.0	12.0	13.4	8.3	8.5	9.8
Oxnard-Simi Valley-Ventura	226.1	223.8	225.7	17.7	16.7	16.1	7.8	7.4	7.1
Riverside-San Bernardino-Ontario	581.1	580.5	588.8	38.4	48.4	45.0	6.6	8.3	7.6
Sacramento	465.9	475.9	473.2	28.8	32.4	32.9	6.2	6.8	7.0
Salinas-Seaside-Monterey	131.8	129.6	128.2	8.0	9.2	8.5	6.1	7.1	6.6
San Diego	743.5	739.5	751.3	45.4	47.3	49.8	6.1	6.4	6.6
San Francisco-Oakland	1,623.0	1,571.7	1,592.9	87.6	83.5	85.7	5.4	5.3	5.4
San Jose	729.0	730.4	736.5	34.9	33.9	37.8	4.8	4.6	5.1
Santa Barbara-Santa Maria-Lompoc	147.3	143.7	146.2	7.9	7.9	7.8	5.3	5.5	5.3
Santa Rosa	132.7	128.8	130.5	7.2	8.9	8.1	5.4	6.9	6.2
Stockton	168.6	173.7	168.0	12.5	12.9	14.4	7.4	7.4	8.6
Vallejo-Fairfield-Napa	127.0	126.8	126.7	7.5	8.5	7.8	5.9	6.7	6.2
COLORADO	1,420.7	1,478.4	1,488.0	63.4	90.5	93.8	4.5	6.1	6.3
Denver-Boulder	840.6	874.5	880.4	35.4	51.1	51.8	4.2	5.8	5.9
CONNECTICUT	1,582.7	1,614.9	1,605.1	73.9	93.1	90.2	4.7	5.8	5.6
Bridgeport	192.4	197.0	196.8	9.6	11.9	11.9	5.0	6.0	6.1
Hartford	383.4	390.3	388.7	16.0	19.6	18.6	4.2	5.0	4.8
New Britain	72.8	75.0	74.8	3.4	4.7	4.6	4.7	6.3	6.1
New Haven-West Haven	203.1	209.5	209.3	10.2	12.3	13.2	5.0	5.9	6.3
Stamford	119.6	123.3	122.9	4.3	4.9	4.8	3.6	4.0	3.9
Waterbury	109.2	110.0	107.3	5.7	7.8	6.9	5.2	7.1	6.4
DELAWARE	274.8	276.2	278.6	19.0	18.7	19.2	6.9	6.8	6.9
Wilmington ¹	242.4	239.6	244.7	15.1	16.2	16.3	6.2	6.8	6.7
DISTRICT OF COLUMBIA	318.3	321.3	318.7	22.7	22.0	21.9	7.1	6.8	6.9
Washington SMSA ¹	1,601.4	1,657.2	1,654.7	67.7	69.4	67.5	4.2	4.2	4.1
FLORIDA²	3,840.3	3,903.8	3,927.9	241.9	263.1	268.4	6.3	6.7	6.8
Fort Lauderdale-Hollywood	401.1	404.8	408.6	22.3	20.2	20.8	5.6	5.0	5.1
Jacksonville	300.1	302.7	304.2	16.7	18.0	19.0	5.6	5.9	6.2
Miami	724.0	734.0	736.2	42.7	49.7	49.5	5.9	6.8	6.7
Orlando	310.8	320.4	320.6	18.9	21.3	20.7	6.1	6.7	6.5
Pensacola	108.9	110.1	110.3	6.3	6.2	7.0	5.8	5.7	6.3
Tampa-St. Petersburg	590.7	596.7	599.9	31.7	35.2	37.0	5.4	5.9	6.2
West Palm Beach-Boca Raton	222.9	230.9	234.8	15.6	16.4	16.4	7.0	7.1	7.0
GEORGIA	2,361.9	2,413.5	2,411.2	118.9	162.0	152.1	5.0	6.7	6.3
Albany	49.1	52.3	52.4	3.0	4.5	4.2	6.1	8.6	8.1
Atlanta	945.5	955.0	956.5	41.9	55.6	52.6	4.4	5.8	5.5
Augusta	121.6	123.7	123.6	6.8	9.0	8.4	5.6	7.3	6.8
Columbus ¹	86.0	85.3	84.7	6.0	6.7	6.2	7.0	7.9	7.4
Macon	97.0	97.9	97.5	5.4	6.4	6.0	5.5	6.5	6.1
Savannah	86.0	85.8	87.1	4.7	6.3	6.1	5.5	7.4	7.0

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		
	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P
HAWAII	397.8	394.1	395.1	24.1	23.5	22.5	6.1	6.0	5.7
Honolulu	313.8	308.5	309.3	18.5	17.5	16.8	5.9	5.7	5.4
IDAHO	428.9	427.1	423.7	17.2	27.7	25.8	4.0	6.5	6.1
Boise City	87.8	88.3	87.4	2.6	4.9	4.8	3.0	5.5	5.5
ILLINOIS ²	5,392.7	5,408.7	5,494.8	297.2	452.2	484.7	5.5	8.4	8.8
Bloomington—Normal	60.5	59.2	58.8	1.8	3.8	4.0	3.0	6.4	6.8
Champaign—Urbana—Rantoul	81.3	79.8	82.0	3.1	4.3	4.7	3.8	5.4	5.7
Chicago	3,366.3	3,379.4	3,430.1	178.3	274.3	291.7	5.3	8.1	8.5
Davenport—Rock Island—Moline ¹	187.4	180.5	187.4	7.2	12.8	14.9	3.8	7.1	7.9
Decatur	59.2	61.0	62.4	4.6	6.8	7.4	7.8	11.2	11.8
Peoria	164.2	175.0	178.0	11.2	13.5	15.9	6.8	7.7	8.9
Rockford	137.7	134.3	136.8	7.5	13.8	14.5	5.5	10.3	10.6
Springfield	95.6	96.3	98.7	6.1	6.7	7.0	6.4	7.0	7.1
INDIANA	2,619.9	2,613.9	2,597.3	162.4	251.1	223.8	6.2	9.6	8.6
Anderson	59.7	56.5	55.1	4.9	8.7	6.6	8.2	15.4	12.0
Evansville ¹	143.6	140.5	140.7	7.0	9.7	9.3	4.9	6.9	6.6
Fort Wayne	194.4	197.2	195.6	10.3	20.7	20.2	5.3	10.5	10.3
Gary—Hammond—East Chicago	299.8	299.1	295.3	23.5	37.7	31.3	7.8	12.6	10.6
Indianapolis	594.7	606.3	603.7	31.6	44.9	40.5	5.3	7.4	6.7
Lafayette—West Lafayette	63.7	62.5	63.1	2.9	3.8	3.5	4.5	6.1	5.6
Muncie	56.7	55.9	56.6	3.8	5.9	5.3	6.7	10.6	9.3
South Bend	142.2	139.5	139.0	8.5	12.5	12.2	6.0	9.0	8.8
Terre Haute	84.2	81.2	80.9	4.3	5.9	5.8	5.2	7.3	7.2
IOWA	1,455.2	1,445.1	1,440.9	45.7	79.1	76.1	3.1	5.5	5.3
Cedar Rapids	89.4	89.8	89.5	2.4	6.8	6.0	2.7	7.6	6.8
Des Moines	184.4	182.3	181.9	6.3	10.6	9.4	3.4	5.8	5.2
Dubuque	46.4	45.2	44.4	2.3	3.8	6.5	5.0	8.5	14.6
Sioux City ¹	54.9	54.0	54.0	2.8	3.2	2.8	5.1	5.9	5.3
Waterloo—Cedar Falls	70.1	70.2	70.1	2.7	4.8	4.1	3.9	6.9	5.8
KANSAS	1,210.3	1,216.5	1,213.9	37.9	54.6	53.6	3.1	4.5	4.4
Topeka	98.2	97.6	98.6	4.4	5.8	5.8	4.5	5.9	5.9
Wichita	233.2	230.3	232.3	7.4	9.8	9.6	3.2	4.3	4.1
KENTUCKY	1,589.4	1,638.7	1,657.4	80.5	127.2	129.0	5.1	7.8	7.8
Lexington—Fayette	171.1	174.9	177.4	5.8	7.2	7.4	3.4	4.1	4.2
Louisville ¹	414.2	431.5	430.9	21.7	33.9	31.5	5.2	7.8	7.3
Owensboro	38.6	41.3	40.7	2.1	3.0	3.0	5.3	7.2	7.3
LOUISIANA	1,706.7	1,750.0	1,752.8	106.9	108.5	106.8	6.3	6.2	6.1
Alexandria	67.5	69.9	69.6	5.1	5.9	5.6	7.6	8.5	8.0
Baton Rouge	204.7	211.4	211.4	13.1	12.1	11.3	6.4	5.7	5.4
Lafayette	74.9	81.5	81.0	3.4	2.9	2.7	4.5	3.5	3.3
Lake Charles	71.6	71.3	71.2	4.5	4.2	4.2	6.3	5.8	5.9
Monroe	53.4	53.2	53.1	3.7	4.4	4.5	6.9	8.3	8.4
New Orleans	474.0	477.0	479.5	27.9	28.1	28.2	5.9	5.9	5.9
Shreveport	153.3	156.0	156.8	8.3	10.3	10.2	5.4	6.6	6.5
MAINE	491.4	518.5	504.6	31.4	37.1	35.3	6.4	7.2	7.0
Lewiston—Auburn	39.1	38.7	38.5	2.3	2.8	2.7	5.9	7.2	6.9
Portland	88.0	89.4	90.2	4.5	5.1	5.3	5.1	5.7	5.9
MARYLAND	2,089.9	2,149.3	2,161.5	115.5	126.8	126.9	5.5	5.9	5.9
Baltimore	1,053.7	1,078.0	1,092.0	68.7	74.1	75.1	6.5	6.9	6.9
MASSACHUSETTS ²	2,843.8	2,913.1	2,964.2	123.9	173.0	166.7	4.4	5.9	5.6
Boston	1,384.1	1,425.7	1,454.8	58.4	77.7	72.4	4.2	5.5	5.0
Brockton	79.0	82.5	83.5	3.8	6.1	5.7	4.9	7.3	6.8
Fall River ¹	74.5	76.9	78.6	4.1	5.7	5.7	5.4	7.5	7.2
Lawrence—Haverhill ¹	136.6	140.6	142.7	8.0	9.6	9.2	5.8	6.9	6.4
Lowell	116.7	121.0	123.5	5.4	7.7	7.3	4.6	6.4	5.9
New Bedford	78.2	80.5	81.2	4.9	6.2	6.8	6.3	7.7	8.3
Springfield—Chicopee—Holyoke	273.2	270.4	275.8	9.8	15.9	15.9	3.6	5.9	5.8
Worcester	193.2	198.4	201.1	7.1	11.1	10.5	3.7	5.6	5.2
MICHIGAN ²	4,326.9	4,319.4	4,330.3	313.5	516.1	525.2	7.2	11.9	12.1
Ann Arbor	146.1	140.0	140.8	9.6	11.2	11.3	6.6	8.0	8.1

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						
				Number			Percent of labor force			
	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P	
MICHIGAN—Continued										
Battle Creek	80.4	81.6	81.6	5.6	9.3	9.9	7.0	11.4	12.2	
Bay City	51.5	53.8	53.9	3.5	8.1	8.1	6.8	15.0	15.0	
Detroit	2,045.5	2,033.4	2,044.7	156.4	253.9	260.2	7.6	12.5	12.7	
Flint	223.1	225.5	227.4	18.1	39.3	37.2	8.1	17.4	16.4	
Grand Rapids	312.5	318.2	318.1	15.0	26.2	27.2	4.8	8.2	8.6	
Jackson	68.7	66.5	66.2	4.6	7.6	8.1	6.6	11.5	12.3	
Kalamazoo—Portage	135.8	136.5	136.8	6.7	11.6	12.4	5.0	8.5	9.1	
Lansing—East Lansing	239.1	237.3	241.3	14.8	24.9	24.6	6.2	10.5	10.2	
Muskegon—Norton Shores—Muskegon Heights	76.6	79.7	78.9	5.7	11.5	11.5	7.5	14.5	14.6	
Saginaw	103.1	101.2	101.9	8.4	13.5	13.0	8.2	13.3	12.7	
MINNESOTA	2,090.2	2,117.7	2,107.5	69.5	119.0	113.6	3.3	5.6	5.4	
Duluth—Superior ¹	119.7	117.7	117.3	5.7	10.4	10.9	4.8	8.8	9.3	
Minneapolis—St. Paul	1,113.4	1,104.7	1,111.9	32.6	54.9	51.7	2.9	5.0	4.6	
MISSISSIPPI	1,004.9	1,034.7	1,034.9	51.5	70.1	69.9	5.1	6.8	6.8	
Jackson	149.3	155.6	154.9	5.5	8.0	7.8	3.7	5.1	5.1	
MISSOURI	2,326.1	2,331.7	2,305.3	97.2	163.3	159.9	4.2	7.0	6.9	
Kansas City ¹	697.7	685.8	679.2	27.3	45.8	44.7	3.9	6.7	6.6	
St. Joseph	45.2	45.2	44.3	2.2	3.1	2.9	4.8	6.9	6.6	
St. Louis ¹	1,101.7	1,084.4	1,082.5	60.9	90.2	90.5	5.5	8.3	8.4	
Springfield	104.8	104.5	103.4	3.6	6.1	5.8	3.4	5.9	5.6	
MONTANA	371.1	377.3	367.5	13.8	19.2	19.5	3.7	5.1	5.3	
Billings	55.9	56.1	55.1	1.4	2.4	2.3	2.6	4.3	4.1	
Great Falls	33.6	33.8	32.8	1.6	2.1	2.4	4.7	6.2	7.2	
NEBRASKA	773.5	765.6	768.0	21.5	27.4	29.1	2.8	3.6	3.8	
Lincoln	111.8	110.9	109.7	2.9	3.6	3.6	2.6	3.3	3.3	
Omaha ¹	279.5	275.3	276.2	11.5	13.9	14.6	4.1	5.1	5.3	
NEVADA	367.0	376.9	377.7	18.1	24.3	24.1	4.9	6.5	6.4	
Las Vegas	200.7	207.5	208.0	11.8	16.0	15.6	5.9	7.7	7.5	
Reno	107.9	108.8	109.9	3.6	4.9	4.9	3.3	4.5	4.5	
NEW HAMPSHIRE	449.3	462.9	458.5	13.5	19.7	20.8	3.0	4.3	4.5	
Manchester	79.4	80.9	81.0	2.1	3.5	3.7	2.7	4.3	4.6	
Nashua	72.7	77.4	77.2	2.2	3.2	3.1	3.1	4.1	4.1	
NEW JERSEY	3,552.8	3,518.6	3,572.9	223.5	249.2	241.5	6.3	7.1	6.8	
Atlantic City	98.0	105.2	104.5	8.5	6.6	6.8	8.6	6.3	6.5	
Jersey City	248.1	239.0	245.4	21.0	23.8	23.8	8.5	9.9	9.7	
Long Branch—Asbury Park	224.2	223.5	226.5	14.4	14.6	15.0	6.4	6.5	6.6	
Newark	972.6	947.1	965.4	60.1	69.6	64.9	6.2	7.3	6.7	
New Brunswick—Perth Amboy—Sayreville	327.9	328.6	333.9	17.4	20.5	19.5	5.3	6.2	5.9	
Paterson—Clifton—Passaic	219.3	213.7	217.3	19.1	19.4	17.3	8.7	9.1	7.9	
Trenton	162.7	159.8	162.6	8.4	10.0	8.9	5.2	6.3	5.5	
Vineland—Millville—Bridgeton	60.9	61.1	61.7	4.8	5.7	6.0	8.0	9.3	9.8	
NEW MEXICO	551.9	547.3	545.9	35.9	43.3	42.1	6.5	7.9	7.7	
Albuquerque	205.1	207.8	206.4	12.4	18.0	17.1	6.1	8.7	8.3	
NEW YORK ²	7,932.0	7,836.5	7,920.7	560.0	569.5	576.6	7.1	7.3	7.3	
Albany—Schenectady—Troy	375.8	371.2	377.7	21.7	19.4	21.8	5.8	5.2	5.8	
Binghamton ¹	140.4	137.3	141.0	8.3	8.6	10.0	5.9	6.2	7.1	
Buffalo	581.7	568.8	582.5	46.3	51.6	54.2	8.0	9.1	9.3	
Elmira	40.7	39.1	40.6	2.8	2.7	3.1	6.8	6.8	7.7	
Nassau—Suffolk	1,295.8	1,268.1	1,291.5	89.2	72.8	76.9	6.9	5.7	6.0	
New York	3,560.6	3,541.4	3,543.0	266.5	292.5	272.0	7.5	8.3	7.7	
New York City ²	2,953.0	2,932.0	2,922.0	235.0	265.0	242.0	8.0	9.0	8.3	
Poughkeepsie	106.4	107.2	109.2	5.2	5.2	5.9	4.9	4.9	5.4	
Rochester	471.4	461.5	474.0	25.2	24.5	26.6	5.4	5.3	5.6	
Syracuse	309.0	300.8	307.4	18.4	20.0	22.0	5.9	6.7	7.2	
Utica—Rome	138.8	137.2	138.6	8.6	10.2	10.7	6.2	7.4	7.7	
NORTH CAROLINA	2,720.6	2,764.6	2,748.3	130.5	181.7	174.2	4.8	6.6	6.3	
Asheville	84.1	83.8	83.2	3.4	5.2	4.9	4.0	6.2	5.9	
Charlotte—Gastonia	341.3	341.2	341.4	12.8	18.3	16.8	3.8	5.4	4.9	

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P
NORTH CAROLINA—Continued									
Greensboro—Winston-Salem—High Point	425.9	426.7	427.1	18.7	25.4	25.5	4.4	6.0	6.0
Raleigh—Durham	292.0	295.6	294.7	9.8	14.1	13.0	3.4	4.8	4.4
NORTH DAKOTA									
Fargo—Moorehead ¹	307.0	310.3	300.8	6.6	14.7	12.8	2.1	4.7	4.3
	71.6	69.0	69.5	1.8	3.7	3.3	2.5	5.4	4.7
OHIO²									
Akron	5,093.8	5,180.3	5,215.9	300.8	461.9	421.4	5.9	8.9	8.1
Canton	305.2	311.1	311.7	16.9	28.0	25.7	5.5	9.0	8.2
Cincinnati ¹	186.6	190.9	191.9	10.8	20.0	17.9	5.8	10.5	9.3
Cleveland	666.7	685.5	692.7	34.4	51.0	48.8	5.2	7.4	7.0
Columbia	939.8	954.5	959.7	50.0	77.2	69.3	5.3	8.1	7.2
Dayton	547.3	552.8	565.3	24.6	34.5	32.9	4.5	6.2	5.8
Toledo ¹	395.3	396.6	400.4	24.1	31.3	27.4	6.1	7.9	6.9
Youngstown—Warren	373.2	373.9	379.3	27.0	38.1	35.4	7.2	10.2	9.3
	237.9	241.9	243.3	15.5	31.1	26.9	6.5	12.8	11.0
OKLAHOMA									
Oklahoma City	1,299.0	1,320.2	1,336.8	40.8	60.2	67.7	3.1	4.6	5.1
Tulsa	398.3	413.8	418.6	12.1	17.5	19.7	3.0	4.2	4.7
	308.8	313.9	317.7	9.2	13.5	15.2	3.0	4.3	4.8
OREGON									
Eugene—Springfield	1,231.5	1,263.0	1,267.8	71.7	101.0	102.0	5.8	8.0	8.0
Portland ¹	126.8	130.7	132.8	9.2	13.0	13.0	7.2	10.0	9.8
Salem	595.7	612.5	615.8	29.9	39.6	39.6	5.0	6.5	6.4
	116.9	123.6	122.1	5.5	8.0	8.1	4.7	6.5	6.7
PENNSYLVANIA²									
Allentown—Bethlehem—Easton ¹	5,347.5	5,387.5	5,459.9	424.7	411.3	418.6	7.9	7.6	7.7
Altoona	299.7	303.3	306.8	23.0	20.7	21.5	7.7	6.8	7.0
Erie	59.3	60.3	60.7	5.9	5.4	5.9	9.9	8.9	9.7
Harrisburg	126.7	127.4	130.1	10.4	11.3	12.2	8.2	8.9	9.4
Johnstown	217.4	221.2	223.7	12.8	12.9	13.1	5.9	5.8	5.8
Lancaster	110.5	109.4	111.2	10.8	12.7	13.9	9.8	11.6	12.5
Lancaster	176.8	178.6	180.8	9.6	9.5	9.6	5.4	5.3	5.3
Northeast Pennsylvania	286.0	285.6	290.2	27.8	25.1	27.3	9.7	8.8	9.4
Philadelphia ¹	2,137.4	2,133.8	2,171.8	163.6	146.5	145.7	7.7	6.9	6.7
Pittsburgh	1,016.1	1,022.0	1,030.4	68.5	79.3	75.5	6.7	7.8	7.3
Reading	152.2	155.7	158.5	9.7	11.0	11.1	6.4	7.1	7.0
Williamsport	53.0	53.2	53.7	6.3	5.2	5.8	11.9	9.8	10.8
York	173.6	177.3	179.8	10.5	11.9	11.1	6.0	6.7	6.2
RHODE ISLAND									
Providence—Warwick—Pawtucket ¹	450.7	457.4	459.2	26.2	27.7	27.0	5.8	6.1	5.9
	450.2	451.1	454.9	26.0	28.4	27.3	5.8	6.3	6.0
SOUTH CAROLINA									
Charleston—North Charleston	1,324.7	1,336.4	1,350.9	64.2	88.2	90.8	4.8	6.6	6.7
Columbia	156.5	158.3	161.7	8.1	10.4	10.8	5.2	6.5	6.7
Greenville—Spartanburg	176.2	178.4	181.5	6.3	8.2	8.3	3.6	4.6	4.6
	263.7	263.7	266.8	10.3	14.9	15.1	3.9	5.6	5.7
SOUTH DAKOTA									
Sioux Falls	340.9	341.1	335.6	8.9	14.3	16.4	2.6	4.2	4.9
	61.8	57.0	56.3	1.2	2.6	2.8	2.0	4.5	5.0
TENNESSEE									
Chattanooga ¹	2,017.7	2,041.1	2,057.9	105.4	140.6	142.9	5.2	6.9	6.9
Knoxville	195.8	199.0	199.8	11.7	15.3	16.2	6.0	7.7	8.1
Memphis ¹	206.6	209.6	213.3	9.2	11.2	11.4	4.5	5.3	5.4
Nashville—Davidson	387.4	392.0	393.3	18.4	22.6	23.2	4.8	5.8	5.9
	420.6	421.0	420.6	17.1	23.1	22.6	4.1	5.5	5.4
TEXAS²									
Amarillo	6,331.1	6,486.4	6,503.5	238.0	297.7	283.9	3.8	4.6	4.4
Austin	89.9	89.0	89.7	2.7	3.0	3.1	3.0	3.4	3.4
Beaumont—Port Arthur—Orange	251.8	256.2	258.2	7.0	8.1	8.0	2.8	3.2	3.1
Corpus Christi	164.3	164.1	164.9	7.7	9.7	9.6	4.7	5.9	5.8
Dallas—Fort Worth	140.6	142.2	141.6	6.4	7.5	6.9	4.5	5.3	4.9
El Paso	1,507.4	1,569.7	1,579.6	46.7	63.1	60.2	3.1	4.0	3.8
Galveston—Texas City	169.8	173.6	173.9	12.2	14.2	13.9	7.2	8.2	8.0
Houston	81.2	84.5	84.7	3.5	4.8	4.6	4.3	5.7	5.4
Lubbock	1,450.5	1,486.9	1,490.6	43.3	55.1	51.8	3.0	3.7	3.5
San Antonio	102.7	101.7	101.6	3.1	3.7	3.7	3.0	3.6	3.7
Waco	416.5	426.3	426.1	21.4	24.8	22.7	5.1	5.8	5.3
Wichita Falls	79.3	80.9	81.1	2.9	3.8	3.5	3.6	4.8	4.3
	60.2	61.0	61.1	1.7	2.0	1.9	2.8	3.3	3.0

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		
	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P	OCT. 1979	SEPT. 1980	OCT. 1980P
UTAH	598.1	614.3	610.5	22.5	36.5	37.3	3.8	5.9	6.1
Salt Lake City—Ogden	394.8	398.5	399.2	15.1	23.1	23.7	3.8	5.8	5.9
VERMONT	242.6	249.8	252.6	9.5	14.7	16.1	3.9	5.9	6.4
VIRGINIA	2,492.9	2,533.6	2,533.0	109.7	136.4	128.3	4.4	5.4	5.1
Lynchburg	77.5	78.2	77.7	3.1	4.6	3.9	4.0	5.9	5.0
Newport News—Hampton	161.3	170.8	170.8	8.2	9.6	9.2	5.1	5.6	5.4
Norfolk—Virginia Beach—Portsmouth ¹	325.4	329.5	329.6	17.2	19.8	19.2	5.3	6.0	5.8
Petersburg—Colonial Heights—Hopewell	57.7	61.2	60.8	3.0	4.1	3.8	5.2	6.7	6.3
Richmond	325.8	333.0	332.2	9.8	13.2	11.8	3.0	4.0	3.5
Roanoke	110.9	112.9	112.8	5.7	5.9	5.2	5.2	5.2	4.6
WASHINGTON	1,935.2	1,907.3	1,905.4	121.2	139.6	142.2	6.3	7.3	7.5
Seattle—Everett	847.1	837.4	840.7	45.4	53.5	54.5	5.4	6.4	6.5
Spokane	152.7	146.7	144.9	9.4	10.9	10.8	6.1	7.4	7.4
Tacoma	177.4	171.2	169.2	13.1	14.2	14.5	7.4	8.3	8.5
WEST VIRGINIA	760.8	767.1	772.3	45.4	68.5	67.4	6.0	8.9	8.7
Charleston	129.3	131.2	130.8	5.4	10.2	9.5	4.2	7.8	7.3
Huntington—Ashland ¹	126.2	129.5	130.3	6.6	11.2	11.3	5.2	8.6	8.6
Parkersburg—Marietta ¹	71.7	72.1	71.8	3.5	6.1	6.0	4.9	8.4	8.3
Wheeling ¹	83.5	82.3	82.9	5.4	7.3	7.7	6.4	8.9	9.2
WISCONSIN	2,416.8	2,393.3	2,363.1	91.9	158.9	149.6	3.8	6.6	6.3
Appleton—Oshkosh	155.8	151.2	151.2	5.7	10.2	9.6	3.7	6.8	6.4
Eau Claire	58.4	58.1	57.8	2.5	3.3	3.0	4.4	5.7	5.1
Green Bay	89.8	90.6	89.1	3.6	5.5	5.0	4.0	6.0	5.6
Kenosha	65.0	62.6	61.3	2.9	4.0	3.9	4.4	6.4	6.3
La Crosse	47.0	46.5	46.5	1.6	2.4	2.4	3.4	5.2	5.2
Madison	185.4	188.1	187.1	5.7	8.3	7.5	3.1	4.4	4.0
Milwaukee	736.1	732.9	727.5	25.4	48.5	43.4	3.4	6.6	6.0
Racine	88.9	87.7	86.7	3.5	8.0	7.2	3.9	9.1	8.3
WYOMING	230.8	239.8	242.2	5.5	7.7	9.1	2.4	3.2	3.7

¹ Includes interstate portion of area located in adjacent State.

² 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 1979 have been benchmarked to 1979 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1980 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

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 65,000 households, representing 629 areas in 1,133 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 day 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 in-

dustries is included. The payroll survey covers only wage and salary employees on the payrolls of nonagricultural establishments.

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

Unpaid absences from jobs. The household survey includes among the employed all 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, production or nonsupervisory employees on paid vacation, paid holiday, or paid sick leave are included and assigned the number of hours for which they were paid during the reporting period.

Earnings

The household survey measures median earnings of wage and salary workers in all occupations and industries in both the private and public sectors. Data refer to the usual earnings received from the worker's sole or primary job. Data from the establishment survey generally refer to mean earnings of production and related workers in mining and manufacturing, construction workers in construction, and nonsupervisory employees in private service-producing industries. For a comprehensive discussion of the household survey earnings series, see "Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey," BLS Report 601.

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

Employment covered by State unemployment insurance programs. Most nonagricultural wage and salary workers are covered by the unemployment insurance programs. 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 the 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, however, obtained from the Department of Defense.

Each month, 65,000 occupied units are eligible for interview. About 2,800 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 or 5 percent. In addition to the 65,000 occupied units, there are 12,000 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from 1 month to the next and one-half to be common with the same month a year earlier.

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.

Over the period November 1978 to April 1979 the sample was again enlarged by 9,000 households. This was done to permit the publication of reliable quarterly estimates for the 50 States and the District of Columbia. These supplementary households were added to the 56,000 household sample in January 1980.

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 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 (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.

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 a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some "other" method. Examples of the "other" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated 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, occupation, industry, 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.

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

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

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.

White and black and other are terms used to describe the race of workers. The "black-and-other category," 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 primarily American Indians, Alaskan Natives, and Asian and Pacific Islanders. 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 of other Hispanic origin or descent. According to the 1970 Census of population, 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 is primarily one of going to school or not. Statistics on major activity are published every month in table A-7 for 16 to 21-year-olds by employment status, race, and sex, and, if unemployed, whether seeking full- or part-time work.

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

The **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.

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

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

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

Family refers to a group of two or more persons residing together who are related by blood, marriage, or adoption; all such persons are considered as members of one family even though they may include a "subfamily," that is, a married couple or a parent-child group related by blood or marriage to the householder and sharing the living quarters. The counts of families used in this volume refer to primary families only, that is, all persons in the household who are related to the householder. Families are classified either as married-couple families or as those maintained by women or men without spouses. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

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. A detailed discussion of this and other definitional changes introduced at that time, including estimates of 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 in 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 in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force, four-fifths of this

in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning in 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 in 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 to 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 was to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. The new procedure had no significant effect on the estimates.

Beginning in 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 "Change in the Estimation Procedure for the Current Population Survey beginning in January 1979" in the February 1979 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 the 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 nonfarm 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 occupational 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 8 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. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. A recent change was introduced in January 1980, when another supplemental

sample of 9,000 households selected in 32 States and the District of Columbia to provide more reliable quarterly average estimates for States, was added to the existing sample.

The following table provides a description of some aspects of the CPS sample design in use during the different data collection periods. For a more detailed account of the history of the CPS sample design, see *The Current Population Survey: Design and Methodology*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce, 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 and 1980 expansions, 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 4 to 5 percent depending on weather, vacations, etc.

2. *Ratio estimates.* The distribution of the population selected for the sample may differ somewhat, by chance, from that of the population as a whole, in such characteristics as age, race, sex, and residence. Since these characteristics are closely correlated with labor force participation and other principal measurements made from the sample, the 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 629 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South, and West), and second, for each of the 46 States which contains nonsample areas. 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 proportions 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.

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

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

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

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 quantify some sources of nonsampling error in the CPS as discussed below. The effect of nonsampling error should be small on estimates of relative change, such as month-to-month change. Estimates of monthly levels would be more severely affected by the nonsampling error.

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

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

Undercoverage in the CPS results from missed housing units and missed persons within sample households. 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 appears in the paper, "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, April 1973; and in *The Current Population Survey, Design and Methodology*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive and up-to-date discussion of various sources of error, and describes attempts to measure them in the CPS.

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

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

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in

this report reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, instead of computing an individual standard error for each estimate, generalized sets of standard errors were computed for various types of characteristics. This generalization yields more stable estimates of the standard errors. Consequently, the sets of standard errors provided give an indication of the order of magnitude of the standard error of an estimate rather than the precise standard error.

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

Tables 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 1956-66 period they should be multiplied by 1.22. Table J provides generalized standard errors for quarterly estimates of persons and families for use with the CPS earnings data.

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 in a given month the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table 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 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table 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 show generalized standard errors for monthly level and month-to-month change for unemployment rates.

Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentages can be obtained through the use of the standard errors in table 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 in a given month 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 percentage point). The appropriate factor from table H for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error

Table A. Standard errors for 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	208	161
Employed	229	176
Unemployed	122	123
Males, 20 years and over:		
Civilian labor force	113	96
Employed	131	114
Unemployed	84	85
Females, 20 years and over:		
Civilian labor force	167	124
Employed	168	128
Unemployed	71	74
Both sexes, 16-19 years:		
Civilian labor force	80	85
Employed	85	94
Unemployed	58	72
Black and other, 16 years and over:		
Civilian labor force	73	56
Employed	84	63
Unemployed	59	62
Males, 20 years and over:		
Civilian labor force	40	34
Employed	49	43
Unemployed	40	42
Females, 20 years and over:		
Civilian labor force	62	46
Employed	62	48
Unemployed	36	40
Both sexes, 16-19 years:		
Civilian labor force	33	37
Employed	31	36
Unemployed	28	30

on the estimated 3.6 percent is then approximately $0.09 \times 1.26 = 0.1$ percentage point.

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

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

The approximate standard error of levels involving year-to-year change of quarterly estimates pertaining to CPS earnings data for per-

sons and families may be obtained by using table J in conjunction with the following formula:

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

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

Illustration:

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

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

or about 259,000.

Table B. Standard errors for unemployment rates by 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)	0.12	0.12	OCCUPATION—Continued		
Males, 20 years and over . . . . .	.15	.15	Blue collar workers—Continued		
Females, 20 years and over . . . . .	.17	.18	Operatives, except transport . . . . .	.44	.50
Both sexes, 16-19 years . . . . .	.57	.67	Transport equipment operatives . . . . .	.70	.77
White workers . . . . .	.12	.12	Nonfarm laborers . . . . .	.71	.81
Black (and other) workers . . . . .	.46	.49	Service workers . . . . .	.32	.36
Married men, spouse present . . . . .	.15	.16	Farm workers . . . . .	.54	.62
Married women, spouse present . . . . .	.21	.23			
Full-time workers . . . . .	.12	.13	INDUSTRY		
Part-time workers . . . . .	.32	.40	Nonagricultural private wage and		
Unemployed 15 weeks and over . . . . .	.06	.07	salary workers . . . . .	.13	.13
OCCUPATION			Construction . . . . .	.59	.70
White-collar workers . . . . .	.12	.13	Manufacturing . . . . .	.27	.30
Professional and technical . . . . .	.18	.20	Durable goods . . . . .	.37	.41
Managers and administrators,			Nondurable goods . . . . .	.39	.45
except farm . . . . .	.20	.23	Transportation and public utilities . . . . .	.38	.42
Sales workers . . . . .	.36	.41	Wholesale and retail trade . . . . .	.26	.29
Clerical workers . . . . .	.23	.25	Finance and service industries . . . . .	.17	.19
Blue-collar workers . . . . .	.24	.26	Government workers . . . . .	.20	.23
Craft and kindred workers . . . . .	.33	.37	Agricultural wage and salary workers	1.07	1.26

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

Estimated monthly level	Characteristic ¹								
	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	—	—	—	—	—	—	—

¹ 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)

Employment monthly level	Characteristic ¹							
	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	Both sexes 16-19 years, or part-time labor force ²	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	-	-	-	-	-	-	-

¹ See footnote 1, table C.

² 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 for 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 for 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 for estimated percentages and month-to-month change in percentages for labor force data

Monthly base of percentages (In thousands)	Percentage of monthly level									
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	30 or 70	35 or 65	50
50	2.03	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 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 change in percentages.

Characteristic	Factor		Characteristic	Factor	
	Monthly level	Month-to-month change		Monthly level	Month-to-month change
Agricultural employment:			Unemployment:		
Total or full-time labor force . . .	1.26	1.05	Part-time labor force, duration of unemployment, left last job, reentering labor force	1.01	1.21
Part-time labor force	1.26	1.50	All other unemployment characteristics:		
Labor force data other than agricultural employment 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 for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages and change in yearly averages

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

Table J. Standard errors for estimates of quarterly level

(In thousands)

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

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

Shuttle schedules

Two types of data collection schedules are used: Form BLS 790—Report on Employment, Payroll, and Hours; and Form DL 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 total number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month. Form DL 1219 provides for the collection of information on the total number of accessions and separations, by type, during the calendar month, and total employment during the pay period which includes the 12th of the 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. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the principal product or activity.

All data on employment, hours, 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. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sectors.

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 on layoff, on leave without pay, or on strike for the entire period or who were hired but have not yet reported during the period.

Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries. An exception to the definitions below are the statistics on hours and earnings of Federal Government employees, reported in table C-3, which are for all Federal employees, both supervisory and nonsupervisory, for the entire calendar month. 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 plant's own use (e.g., power plant), and recordkeeping 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 precutting and preassembling) ordinarily performed by members of the construction trades.

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

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

Hours cover the hours paid for, during the pay period which includes the 12th of the month, for production, construction, or non-supervisory 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 do not measure the level of total labor costs on the part of the employer since the following are excluded: Irregular bonuses, retroactive items, payments of various welfare benefits, payroll taxes paid by employers, and earnings for those employees not covered under the production worker, construction worker, or nonsupervisory employee definitions.

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

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

Average weekly hours. The workweek information relates to the average hours for which pay was received and is different from standard or scheduled hours. Such factors 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 or her holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

Since overtime hours are premium hours by definition, gross weekly hours and overtime hours do not necessarily move in the same direction from month to month; for example, overtime premiums may be paid for hours in excess of the straight-time workday although less than a full week is worked. Diverse trends at the industry-group level also may be caused by a marked change in hours for a component industry where little or no overtime was worked in both the previous and current months. In addition, such factors as stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on gross hours.

Railroads hours and earnings. The figures for class I railroads (excluding switching and terminal companies) are based on monthly data

summarized in the M-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. Gross average hourly earnings are computed by dividing total compensation by total hours paid for. Average weekly hours are obtained by dividing 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 single 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 reflect 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 Ryscavage, "Two Divergent Measures of Purchasing Power," in the *Monthly Labor Review* for August 1979. 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. 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. 537-40). 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 average of the 12 monthly figures for 1967. For basic industries, the hour aggregates are the product of average weekly hours and production-worker or nonsupervisory-worker employment, and the payroll aggregates are the product of hour aggregates and average hourly earnings. At all higher levels of industry aggregation, hour and payroll aggregates are the sum of the component aggregates.

Indexes of diffusion of changes in number of employees on nonagricultural payrolls. These indexes measure the percent of industries which posted increases in employment over the specified time

span. The indexes are calculated from 172 unpublished seasonally adjusted employment series (two-digit nonmanufacturing industries and three-digit manufacturing industries) covering all nonagricultural payroll employment in the private sector. A more detailed discussion of these indexes appears in "Introduction of Diffusion Indexes," in the December 1974 issue of *Employment and Earnings*.

Labor turnover

Labor turnover is the gross movement of wage and salary workers into and out of employed status with respect to individual establishments. This movement, which relates to a calendar month, is divided into two broad types: *Accessions* (new hires and rehires) and *separations* (terminations of employment initiated by either employer or employee). Each type of action is cumulated for a calendar month and expressed as a rate per 100 employees. The data relate to all employees, whether full- or part-time, permanent or temporary, including executive, office, sales, other salaried personnel, and production workers. The inclusion of transfers to or from another establishment of the company as separations and accessions began 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—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, transfer 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 strictly 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 establishment statistics are (1) the use of the "link relative" technique, which is a form of ratio estimation, (2) periodic adjustment of employment levels to new benchmarks, and (3) the use of size and regional stratification.

The "link relative" technique

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

Size and regional stratification

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

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 1978 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by States agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonagricultural payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1979 benchmark adjustment is shown in table L.

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

THE SAMPLE

Design

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

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

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

See footnotes at end of table.

Table K. 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 average aggregate (of each labor turnover action) divided by annual average employment.

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

² 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.

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

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

In the context of the BLS employment 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 the reference period, and, at a somewhat later date, statistics in considerably greater industrial detail.

Coverage

The BLS sample of establishment employment and payrolls is the largest monthly sampling operation in the field of social statistics. Table M 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 N shows the approximate coverage, in terms of employment, of the labor turnover sample.

Table L. Comparison of nonagricultural employment benchmarks and estimates for March 1979

Industry division	Benchmark March 1979	Estimate March 1979	Percent difference
Total	88,654	88,207	0.5
Mining	928	926	.2
Construction	4,093	4,226	-3.2
Manufacturing	20,972	20,887	.4
Transportation and public utilities	5,045	5,060	-.3
Wholesale and retail trade	19,809	19,690	.6
Finance, insurance, and real estate	4,876	4,870	.1
Services	16,829	16,749	.5
Government	16,102	15,799	1.9

Table M. Approximate size and coverage of BLS employment and payrolls sample, March 1979¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	166,200	34,701,000	39
Mining	2,200	366,000	39
Construction	16,300	736,000	18
Manufacturing	45,200	11,580,000	55
Transportation and public utilities:			
Railroad transportation (ICC)	40	489,000	91
Other transportation and public utilities ..	7,500	2,305,000	51
Wholesale and retail trade	41,800	3,408,000	17
Finance, insurance, and real estate	10,900	1,779,000	38
Services	24,500	3,257,000	19
Government:			
Federal ²	4,700	2,740,000	100
State and local	13,100	8,041,000	60

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

² National estimates of Federal employment by agency are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 4,700 reports covering about 55 percent of employment in Federal establishments.

Table N. Approximate size and coverage of BLS labor turnover sample, March 1979

Industry	Employees	
	Number reported	Percent of total
Total	9,987,000	44
Manufacturing	9,093,000	43
Mining	194,000	21
Telephone communication	700,000	68

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

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

[In percent]

Industry division	Average benchmark revision in estimates of employment ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.3	—	—
Total private .....	.3	0.1	0.2
Mining	1.1	.5	.5
Contract construction	1.7	.2	.3
Manufacturing .....	.3	.1	.1
Durable .....	.4	.1	.1
Nondurable goods .....	.4	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.3	.1	.2
Wholesale .....	.9	.2	.3
Retail .....	.2	.2	.2
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.8	.4	.8
Government ³ .....	.5	—	—

¹ The average percent revision in employment for the following benchmarks: 1970, 1971, 1974, 1978 and 1979.

² Relative errors relate to March 1971 data.

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

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

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

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

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

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

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

Size of employment estimate	Root-mean-square error of employment estimates ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
50,000	2,100	0.9	1.5
100,000	4,400	.7	1.1
200,000	7,100	.5	.9
500,000	15,200	.4	.8
1,000,000	17,100	.3	.5
2,000,000	28,500	.3	.5

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to March 1971 data.

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

STATISTICS FOR STATES AND AREAS

State and area employment, hours, 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.

Table Q. Errors of preliminary employment estimates

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
INDUSTRY DIVISIONS		
Total nonagricultural employment	69,000	63,000
Mining	5,000	5,000
Contract construction	21,000	19,000
Manufacturing	25,000	24,000
Durable two-digit industries	3,700	3,500
Nondurable two-digit industries ..	2,500	2,500
Transportation and public utilities ...	14,000	14,000
Wholesale and retail trade	30,000	26,000
Finance, insurance, and real estate ...	7,000	6,000
Services	30,000	25,000
Government	43,000	36,000
DETAILED INDUSTRIES: SIZE OF EMPLOYMENT ESTIMATE		
50,000	300	400
100,000	700	700
200,000	1,100	1,100
500,000	3,900	4,100
1,000,000	3,800	3,900
2,000,000	6,000	6,100

NOTE: Division level data are based on differences from January 1974 through March 1980. Detailed industry data are based on differences from August 1978 through June 1979.

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.

Definitions

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

Output is the constant-dollar market value of final goods and services produced in a given period. Indexes of *output per hour* of 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 payments for the self-employed, except for nonfinancial corporations, in which there are no self-employed.

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

Unit labor costs measure the labor compensation cost required to produce one unit of output and are derived by dividing compensation per hour by output per hour. *Unit nonlabor payments* 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 household 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 hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics.

State and Area Unemployment Data (E tables)

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 Works 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 "Household Data," above.

Monthly employment and unemployment estimates in the remaining 40 States and 214 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 residences 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 unemployment insurance (UI) laws; (2) those previously employed in industries not covered by these laws; and (3) those who were either entering the labor force for the first time or reentering after a period of separation. This is referred to below as the UI-based estimate.

An estimate for those previously employed in covered industries is derived from a count of current 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 6 month period ending in the current month (e.g. a 6-month moving average).

4. *Substate adjustment for additivity.* Independent estimates of employment and unemployment are prepared 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 of the geographic areas in the LMA's exhausts the geographic boundaries of the State. A proportional adjustment is applied to all substate LMA estimates to ensure that the substate estimates of employment and unemployment add to the independent State totals. In California and New York, which also have substate areas taken directly from the CPS, the additivity adjustment for the remaining areas is applied to the State total minus the direct CPS area.

5. *Benchmark correction procedures.* Once each year monthly estimates prepared by 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

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

The seasonal adjustment programs used for these series are based on 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 method is given in the publication, *The X-11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15, Bureau of the Census (1967).

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

The second change is that seasonal factors are now being calculated for use during the first 6 months of the year rather than for the entire year. In July of each year, the BLS will calculate and publish (in *Employment and Earnings*) a new set of seasonal factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years will continue to be made once a year, at the beginning of each calendar year.

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 official 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 data for selected labor force series based on the experience through December 1979, new seasonal adjustment factors to be used to calculate the overall unemployment rate for the first 6 months of 1980, and a description of the current seasonal adjustment methodology are published in the January 1980 issue of *Employment and Earnings*. Revised seasonally adjusted data covering the entire 5-year revision period for a broader range of labor force series appear in the February 1980 issue of this publication. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

Beginning in July 1980, the BLS also uses the X-11 ARIMA methodology in seasonally adjusting the establishment data, which previously had been computed using the *BLS Seasonal Factor Method*. All series are seasonally adjusted using the multiplicative models under X-11 ARIMA. Seasonal adjustment factors used in calculating the current estimates are based on data through March of 1980. The ARIMA model options for projecting the data series for 1 year ahead have not been used in seasonally adjusting the establishment series.

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 Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory

workers, seasonally adjusted, and dividing by the 1967 base. For total private, total goods-producing, 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.

Seasonal factors were not computed for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These unadjusted series are shown and used in the aggregation to broader level seasonally adjusted series.

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. Further-

more, 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 *X-11 ARIMA 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 March 1980. Seasonal factors to be used for current adjustment appear in the July 1980 issue of *Employment and Earnings*.

*U.S. GOVERNMENT PRINTING OFFICE: 1980-0-341-257/102

U.S. Department of Labor

Bureau of Labor Statistics

REGION I - BOSTON

John Fitzgerald Kennedy Federal Bldg.
Government Center - Room 1603 A
Boston, Mass. 02203

REGION II - NEW YORK

1515 Broadway—Suite 3400
New York, N.Y. 10036

REGION III - PHILADELPHIA

3535 Market Street
P.O. Box 13009 (Zip 19101)
Philadelphia, Pa.

REGION IV - ATLANTA

1371 Peachtree Street, N.E.
Atlanta, Ga. 30367

REGION V - CHICAGO

230 S. Dearborn Street
Chicago, Ill. 60604

REGION VI - DALLAS

555 Griffin Sq., 2nd Fl.
Dallas, Tex. 75202

REGIONS VII & VIII - KANSAS CITY

911 Walnut Street
Kansas City, Mo. 64106

REGIONS IX & X - SAN FRANCISCO

450 Golden Gate Avenue, Box 36017
San Francisco, Calif. 94102

COOPERATING STATE AGENCIES

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

BLS Region

IV ALABAMA	-Department of Industrial Relations, Industrial Relations Building, Room 427, Montgomery 36130
X ALASKA	-Employment Security Division, Department of Labor, P.O. Box 3-7000, Juneau 99802
IX ARIZONA	-Department of Economic Security, P.O. Box 6123, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, P.O. Box 2981, Little Rock 72203
IX CALIFORNIA	-Employment Development Department, P.O. Box 1679, Sacramento 95808 (CES).
VIII COLORADO	-Division of Employment and Training, 1278 Lincoln Street, Denver 80203
I CONNECTICUT	-Employment Security Division, Labor Department, 200 Folly Brook Boulevard, Wethersfield 06109
III DELAWARE	-Department of Labor, University Plaza Office Complex, Bldg. D. Chapman Rd., Route 273, Newark 19713
III DIST. OF COL.	-Office of Administration and Management Services, D.C. Department of Manpower, Suite 1000, 605 G Street, N.W., Washington 20001
IV FLORIDA	-Department of Labor and Employment Security, 1720 South Gadsden, Tallahassee 32301
IV GEORGIA	-Department of Labor, 254 Washington Street, S.W., Atlanta 30334
IX HAWAII	-Department of Labor and Industrial Relations, P.O. Box 3680, Honolulu 96811
X IDAHO	-Department of Employment, P.O. Box 35, Boise 83707
IV ILLINOIS	-Bureau of Employment Security, 910 South Michigan Street, 15th floor, Chicago 60605
V INDIANA	-Employment Security Division, 10 North Senate Avenue, Indianapolis 46204
VII IOWA	-Department of Job Service, 1000 East Grand Avenue, Des Moines 50319
VII KANSAS	-Division of Employment, Department of Human Resources, 401 Topeka Avenue, Topeka 66603
IV KENTUCKY	-Department of Human Resources, 275 E. Main Street, 2nd Floor West, Frankfort 40621
VI LOUISIANA	-Department of Labor, P.O. Box 44094—Capitol Station, Baton Rouge 70804
I MAINE	-Employment Security Commission, Department of Manpower Affairs, 20 Union Street, Augusta 04330
III MARYLAND	-Department of Human Resources, 1100 North Eutaw Street, Baltimore 21201
I MASSACHUSETTS	-Division of Employment Security, Charles F. Hurley Building, Government Center, Boston 02114
V MICHIGAN	-Employment Security Commission, 7310 Woodward Avenue, Detroit 48202
V MINNESOTA	-Department of Economic Security, 390 North Robert Street, Room 517, St. Paul 55101
IV MISSISSIPPI	-Employment Security Commission, P.O. Box 1699, Jackson 39205
VII MISSOURI	-Division of Employment Security, Department of Labor and Industrial Relations, P.O. Box 59, Jefferson City 65101
VIII MONTANA	-Employment Security Division, Department of Labor and Industry, P.O. Box 1728, Helena 59601
VII NEBRASKA	-Division of Employment, Department of Labor, P.O. Box 94600, Lincoln 68509
IX NEVADA	-Employment Security Department, P.O. Box 602, Carson City 89713
I NEW HAMPSHIRE	-Department of Employment Security, 32 South Main Street, Concord 03301
II NEW JERSEY	-Department of Labor and Industry, John Fitch Plaza, Room 202, Trenton 08625
VI NEW MEXICO	-Employment Services Division, Department of Human Services, P.O. Box 1928, Albuquerque 87103
II NEW YORK	-Division of Research and Statistics, Department of Labor, State Campus-Building 12, Albany 12201
IV NORTH CAROLINA	-Employment Security Commission, P.O. Box 25903, Raleigh 27611
VII NORTH DAKOTA	-Employment Security Bureau, P.O. Box 1537, Bismarck 58505
V OHIO	-Division of Research and Statistics, Bureau of Employment Services, 145 S. Front St., Columbus 43216
VI OKLAHOMA	-Employment Security Commission, 310 Will Rogers Memorial Office Building, Oklahoma City 73105
X OREGON	-Employment Division, Department of Human Resources, 875 Union Street, N.E., Salem 97311
III PENNSYLVANIA	-Department of Labor and Industry, Seventh and Forster Streets, Harrisburg 17121
I RHODE ISLAND	-Department of Employment Security, 24 Mason Street, Providence 02903
IV SOUTH CAROLINA	-Employment Security Commission, P.O. Box 995, Columbia 29202
VII SOUTH DAKOTA	-Department of Labor, P.O. Box 1730, Aberdeen 57401
IV TENNESSEE	-Department of Employment Security, 436-6th Avenue, North, Room 519, Nashville 37219
VI TEXAS	-Employment Commission, TEC Building, 15th and Congress Avenue, Austin 78778
VIII UTAH	-Department of Employment Security, P.O. Box 11249, Salt Lake City 84147
I VERMONT	-Department of Employment Security, P.O. Box 488, Montpelier 05602
II VIRGIN ISLAND	-Division of Employment Security, P.O. Box 1092, St. Thomas 00801 (CES)
III VIRGINIA	-Division of Research and Statistics, Department of Labor and Industry, P.O. Box 12064, Richmond 2341 (CES). Employment Commission, P.O. Box 1358, Richmond 23211 (LAUS and LTS)
X WASHINGTON	-Employment Security Department, 1007 South Washington Street, 1st floor, Olympia 98501
III WEST VIRGINIA	-Department of Employment Security, 112 California Avenue, Charleston 25305
V WISCONSIN	-Department of Industry, Labor, and Human Relations, P.O. Box 7944, Madison 53707
VII WYOMING	-Employment Security Commission, P.O. Box 2760, Casner 82801