

Employment and Earnings

November 1978



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

¹ The issue that introduces new benchmarks varies. The October 1978 issue marks the introduction of March 1977 benchmarks and conversion to the 1972 SIC.

² Revised data introduced October 1978.

Employment and Earnings

Vol. 25 No. 11 November 1978

Editors: Chester L. Green, Gloria P. Green, Marc Weinstein

CONTENTS

Page

List of statistical tables	3
Employment and unemployment developments, October 1978 ..	5
Charts	7
Statistical tables:	
Not seasonally adjusted—	
Household data	19
Establishment data:	
Employment	49
Hours and earnings	83
Labor turnover	114
State and area unemployment data	123
Seasonally adjusted series—	
Household data	42
Establishment data:	
Employment	67
Hours and earnings	104
Productivity	106
Labor turnover	119
Revised gross and spendable earnings series, seasonally adjusted	128
Explanatory notes	131

MONTHLY HOUSEHOLD DATA

Page

Employment Status

A- 1: Employment status of the noninstitutional population 16 years and over, 1947 to date.	19
A- 2: Employment status of the noninstitutional population 16 years and over by sex, 1967 to date	20
A- 3: Employment status of the noninstitutional population by sex, age, and race	21
A- 4: Labor force by sex, age, and race	23
A- 5: Employment status of black workers by sex and age	25
A- 6: Employment status of the noninstitutional population by sex, age, and race	26
A- 7: Employment status of the noninstitutional population 16-21 years of age by race and sex	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, sex, age, and race	28
A-11: Unemployed persons by occupation of last job and sex	29
A-12: Unemployed persons by industry of last job and sex	29
A-13: Unemployed persons by reason for unemployment, sex, age, and race	30
A-14: Unemployed persons by reason for unemployment, duration, sex, and age	30
A-15: Unemployed jobseekers by the jobsearch methods used, sex, age, and race	31
A-16: Unemployed jobseekers by the jobsearch methods used, sex, and reason for unemployment	31
A-17: Unemployed persons by duration of unemployment	32
A-18: Unemployed persons by duration, sex, age, race, and marital status	32
A-19: Unemployed persons by duration, occupation, and industry of last job	33

Characteristics of the Employed

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

Characteristics of 14 and 15 year-olds

A-31: Employment status of 14-15 year-olds by sex and race	41
A-32: Employed 14-15 year-olds by sex, class of worker, and occupation	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	42
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: Rates of unemployment 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 20 to 39 years of age	48
---	----

MONTHLY ESTABLISHMENT DATA

Page

Employment—National

B- 1: Employees on nonagricultural payrolls, by industry division, 1919 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	67
B- 5: Women employees on nonagricultural payrolls, by industry, seasonally adjusted	68
B- 6: Production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted	69
B- 7: Indexes of diffusion: Percent of industries in which employment increased	70

Employment—State and Area

B- 8: Employees on nonagricultural payrolls for States and selected areas, by industry division	72
---	----

Hours and Earnings—National

C- 1: Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, 1957 to date	83
C- 2: Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, by industry	84
C- 3: Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government	100
C- 4: Average hourly earnings excluding overtime of production workers on manufacturing payrolls, by industry	100
C- 5: Gross and spendable average weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, in current and 1967 dollars	101
C- 6: Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers on private nonagricultural payrolls	102
C- 7: Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted	104
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	105
C- 9: Average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted	106
C-10: Hours of wage and salary workers in nonagricultural establishments, by industry division	106
C-11: Indexes of output and compensation per hour, unit costs, and prices, private business sector, seasonally adjusted	107
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	108

Hours and Earnings—State and Area

C-13: Gross hours and earnings of production workers on manufacturing payrolls, by State and selected areas	109
---	-----

Labor Turnover—National

D- 1: Labor turnover rates in manufacturing, 1969 to date	114
D- 2: Labor turnover rates, by industry	115
D- 3: Labor turnover rates in manufacturing, 1969 to date, seasonally adjusted	119

Labor Turnover—State and Area

D- 4: Labor turnover rates in manufacturing for selected States and areas	120
---	-----

MONTHLY STATE AND AREA UNEMPLOYMENT DATA

E- 1: Labor force and unemployment by State and selected metropolitan areas	123
---	-----

Employment and Unemployment Developments, October 1978

Employment rose in October and unemployment edged down slightly. The Nation's overall unemployment rate was 5.8 percent, compared with 6.0 percent in September and 5.9 percent in August.

Total employment—as measured by the monthly survey of households—advanced by 325,000 to 95.2 million. Over the past year, total employment has grown by 3.6 million.

Nonfarm payroll employment—as measured by the monthly survey of establishments—rose by 430,000 in October to 86.6 million. Nonfarm jobs have expanded by 3.4 million since October 1977.

Unemployment

The rate of unemployment was 5.8 percent in October, and the number of unemployed persons was 5.9 million. These levels are close to the ones that have prevailed throughout most of 1978.

The unemployment rates for adult men (4.0 percent) and teenagers (16.3 percent) were about unchanged from September. However, the jobless rate for adult women, at 5.6 percent, was down from September. Little change occurred in most other worker categories. Joblessness did decline among full-time workers, whose rate moved from 5.5 to 5.3 percent in October. (See table A-36.)

A decrease in the number of unemployed who had reentered the labor force following a period of absence more than offset an increase in the number of job losers. In terms of duration of joblessness, about half of the unemployed had been looking for work for 6 weeks or less, as has been the case for the past 4 months; in October 1977, the median duration of unemployment had been about 7 weeks. (See tables A-37 and A-39.)

Total employment and the labor force

The number of employed persons increased by 325,000 in October to 95.2 million, with adult men accounting for about half of the increase. The proportion of the population that is employed was 58.8 percent, just shy of June's all-time high and substantially above the year-ago level. (See table A-33.)

The civilian labor force was 101.1 million in October, up 2.9 million from a year earlier. Adult women accounted for about 60 percent of the 12-month labor force increase.

The overall civilian labor force participation rate was 63.3 percent in October, unchanged from September and about a full percentage point above October 1977.

Industry payroll employment

Following little growth between June and September, nonagricultural payroll employment rose sharply—by 430,000—in October to 86.6 million, as nearly all of the major industry groups posted gains. Employment increased in 68 percent of the 172 industries that comprise the BLS diffusion index of private nonagricultural payroll employment. About 40,000 of the October increase resulted from a return of striking workers to their jobs. Nonfarm jobs have increased by 3.4 million over the past year. (See tables B-4 and B-7.)

Over-the-month employment gains were widespread in goods-producing as well as in service-producing industries. The largest increase among the major industry groups was in manufacturing (140,000), with virtually all of the gain occurring among durable goods industries. Within durable goods, most of the strength was in the major metals and metal-using industries, particularly transportation equipment and machinery. Total factory employment had been steady since the early part of this year. Similarly, an over-the-month employment increase in the construction industry (60,000) followed several months of relatively small movements.

In the service-producing sector, large employment gains occurred in trade (100,000), services (55,000), and transportation and public utilities (50,000). There was also continued growth in finance, insurance, and real estate, while State and local government employment remained weak.

Hours

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls was 35.8 hours in October, unchanged from both August and September. The manufacturing workweek edged up 0.1 hour to 40.5 hours, while factory overtime, at 3.6 hours, was unchanged from the September level. (See table C-7.)

Because of the substantial over-the-month employment growth, the index of aggregate hours of production or nonsupervisory workers on private nonagricultural payrolls rose to 121.4 (1967=100) in October, 0.5 percent above the September level. The index, which had shown little growth

between June and September, was 3.8 percent higher than the year-earlier level. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls increased 0.9 percent in October and 8.6 percent from a year ago (seasonally adjusted). Average weekly earnings also in-

creased 0.9 percent over the month; weekly earnings have risen by 7.7 percent since October 1977 (seasonally adjusted).

Before adjustment for seasonality, average hourly earnings rose 5 cents to \$5.86, 47 cents above the level of last October; average weekly earnings were \$210.37, \$1.79 above their September level and \$15.79 higher than a year earlier. (See tables C-1 and C-9.)

CHARTS

Page

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

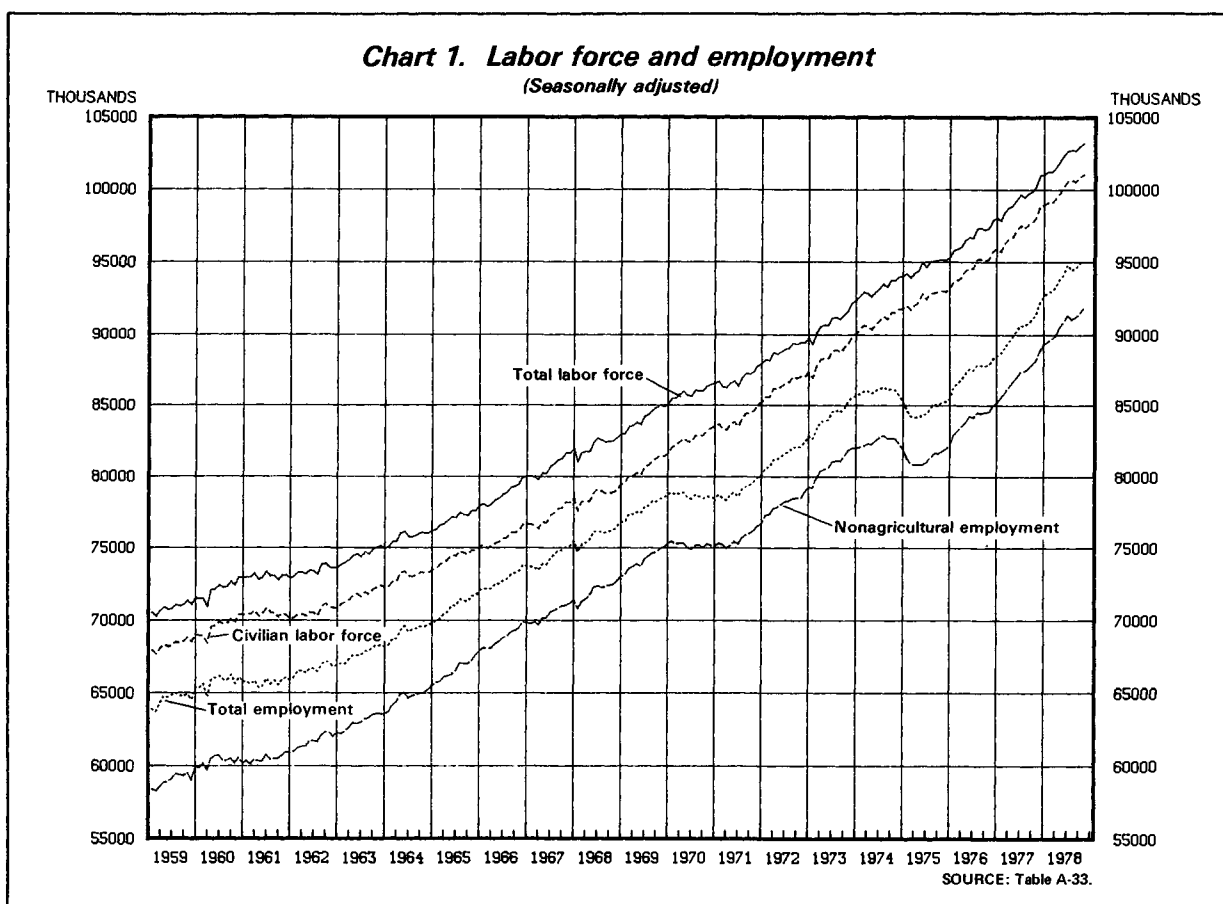


Chart 2. Major unemployment indicators
(Seasonally adjusted)

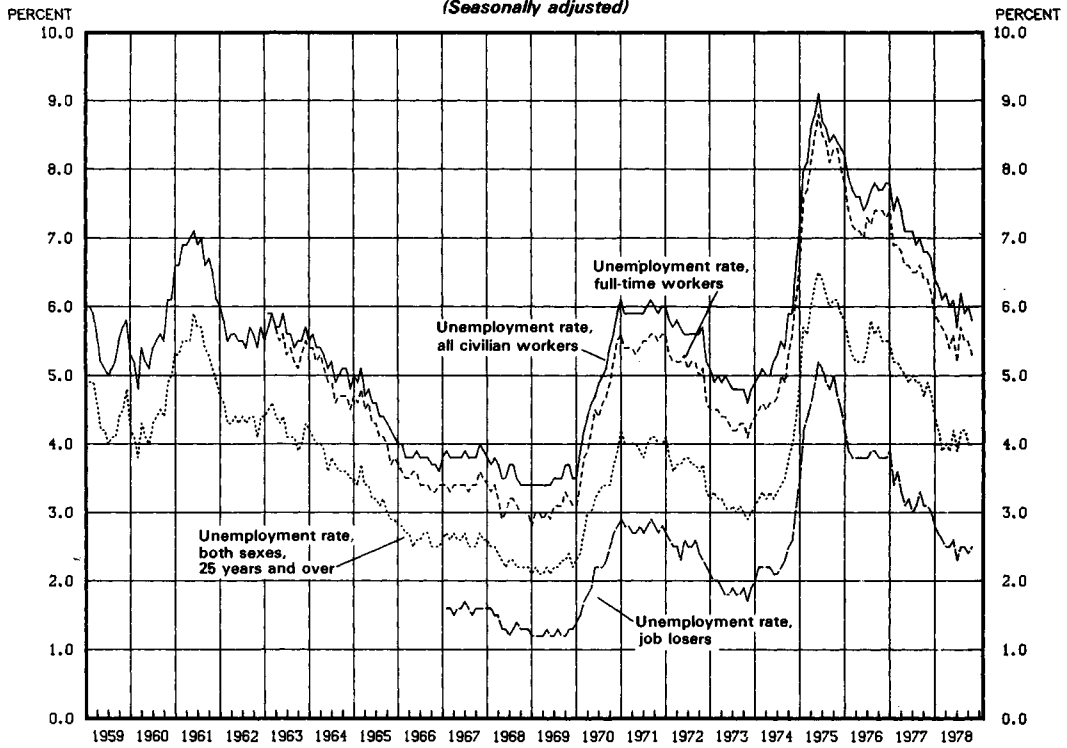


Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)

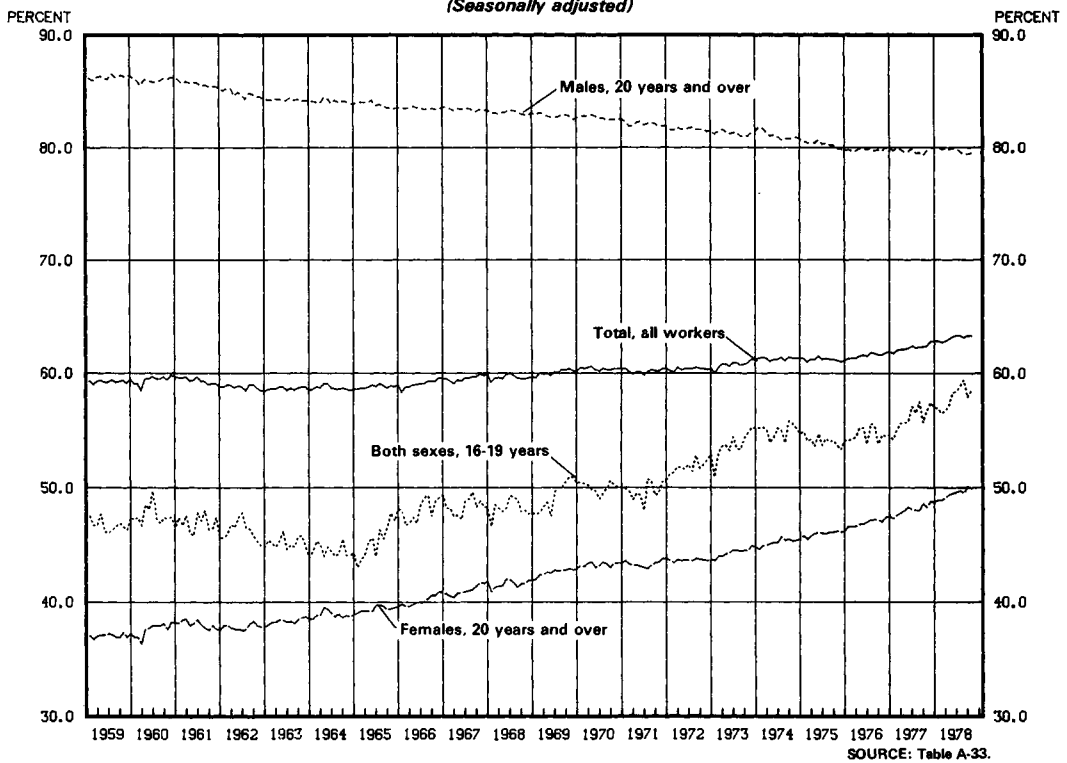
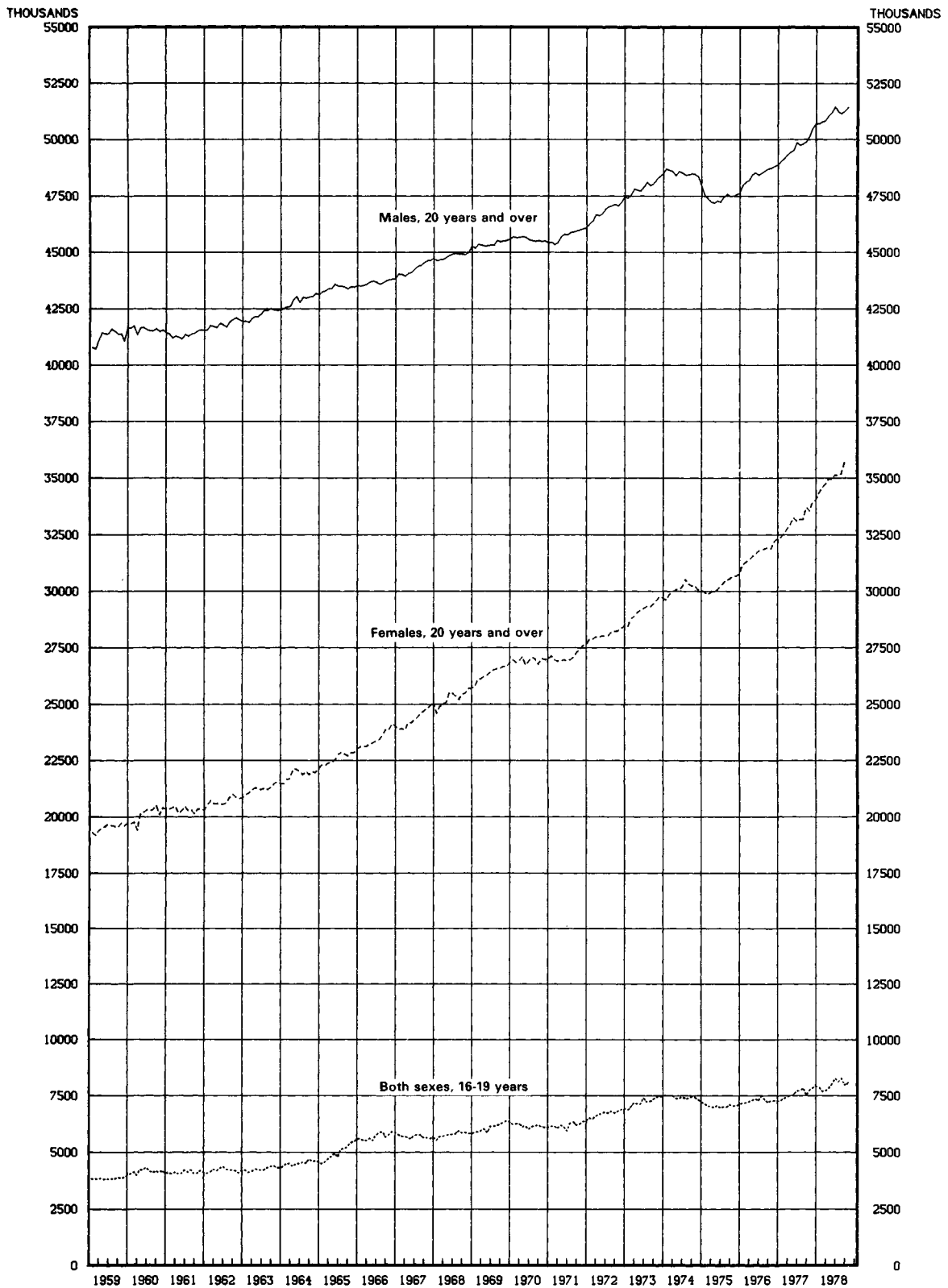


Chart 4. Total employment by sex and age

(Seasonally adjusted)



SOURCE: Table A-33.

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

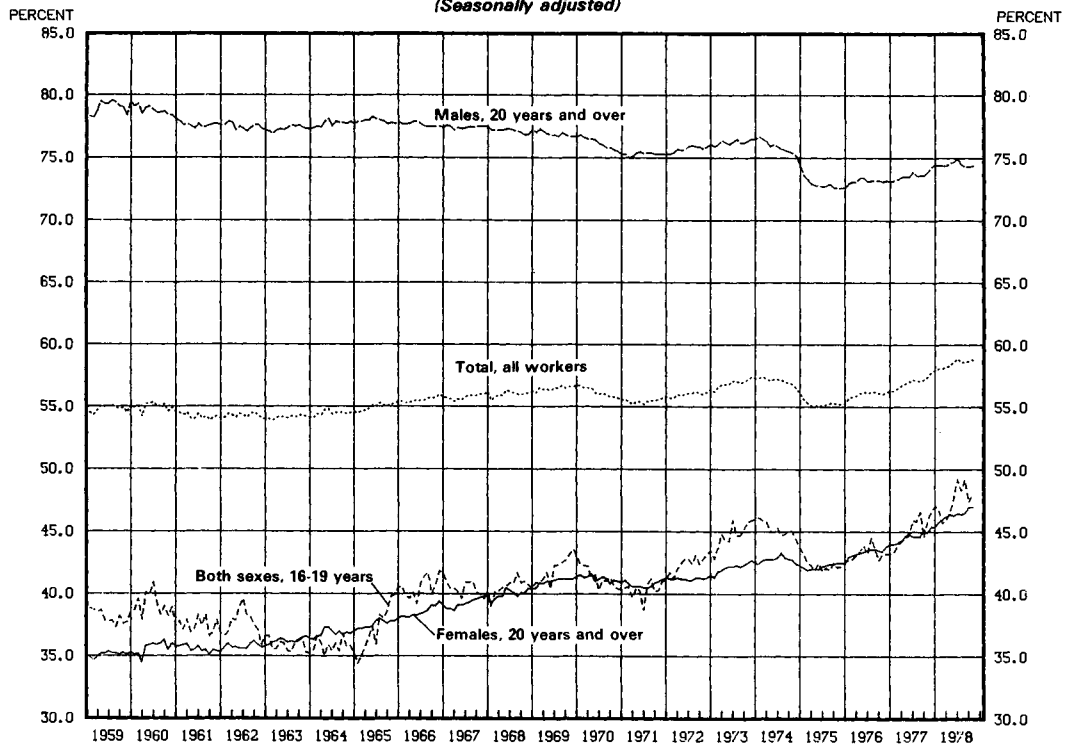


Chart 6. Payroll employment in goods and service-producing industries
(Seasonally adjusted)

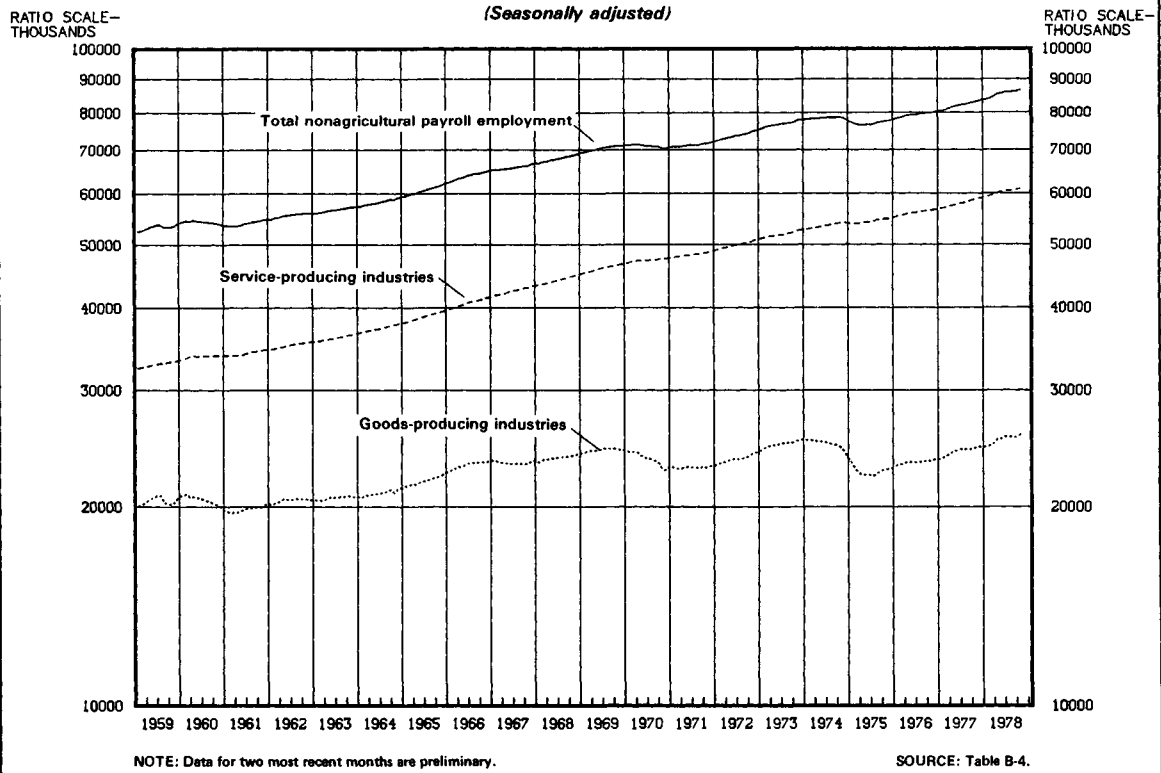
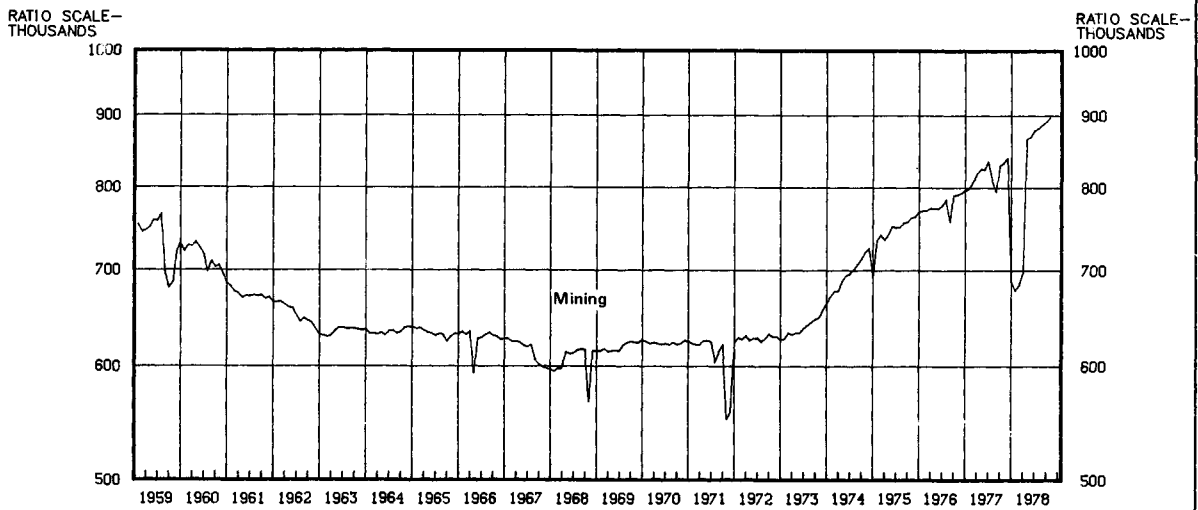
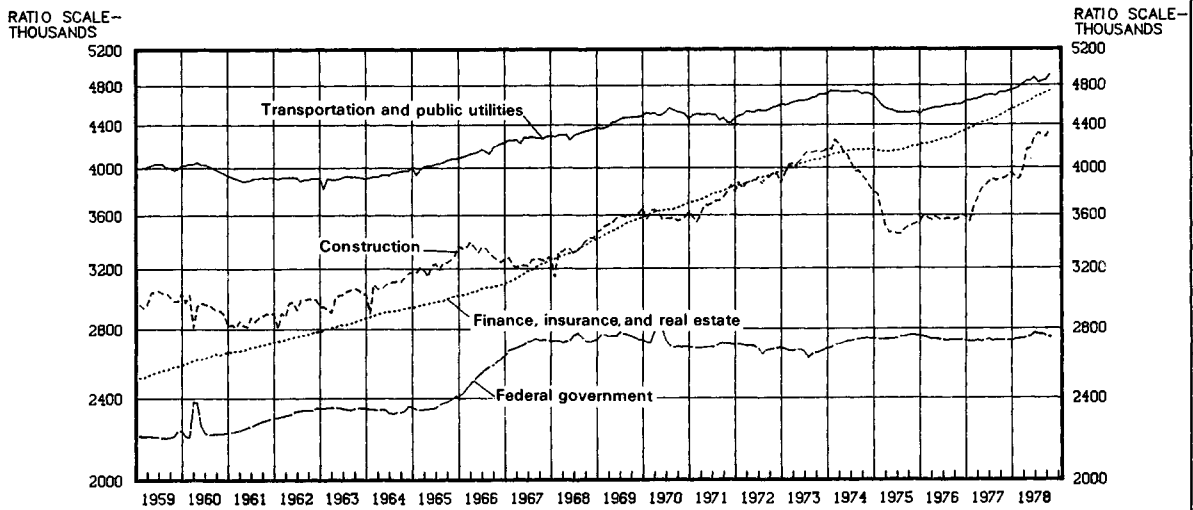
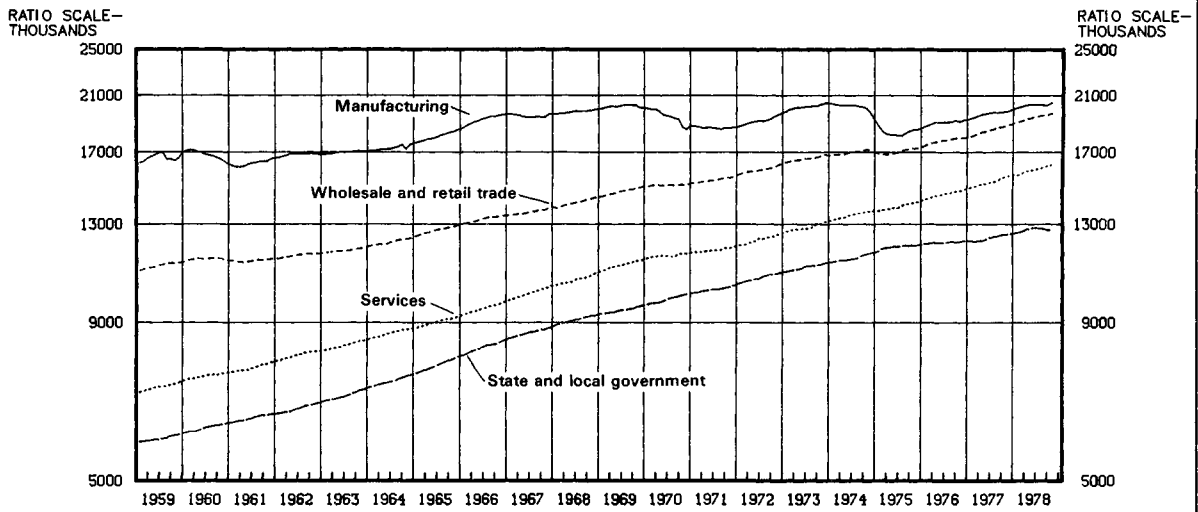


Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

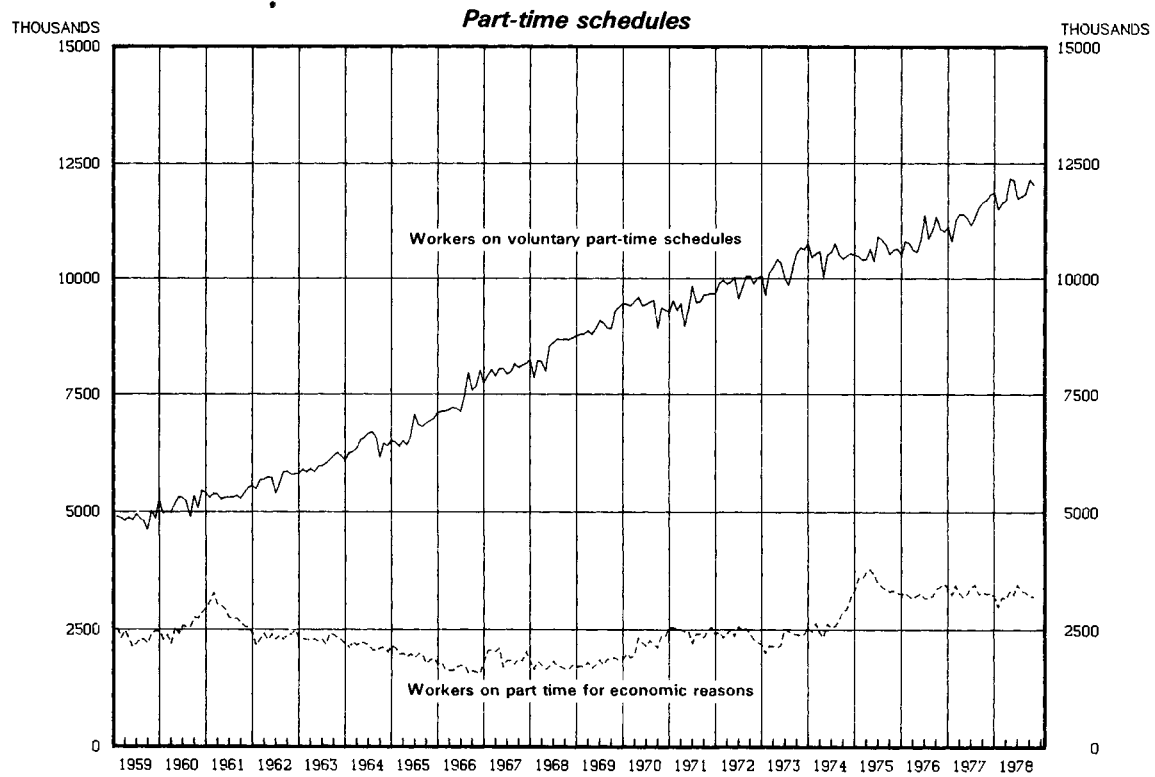
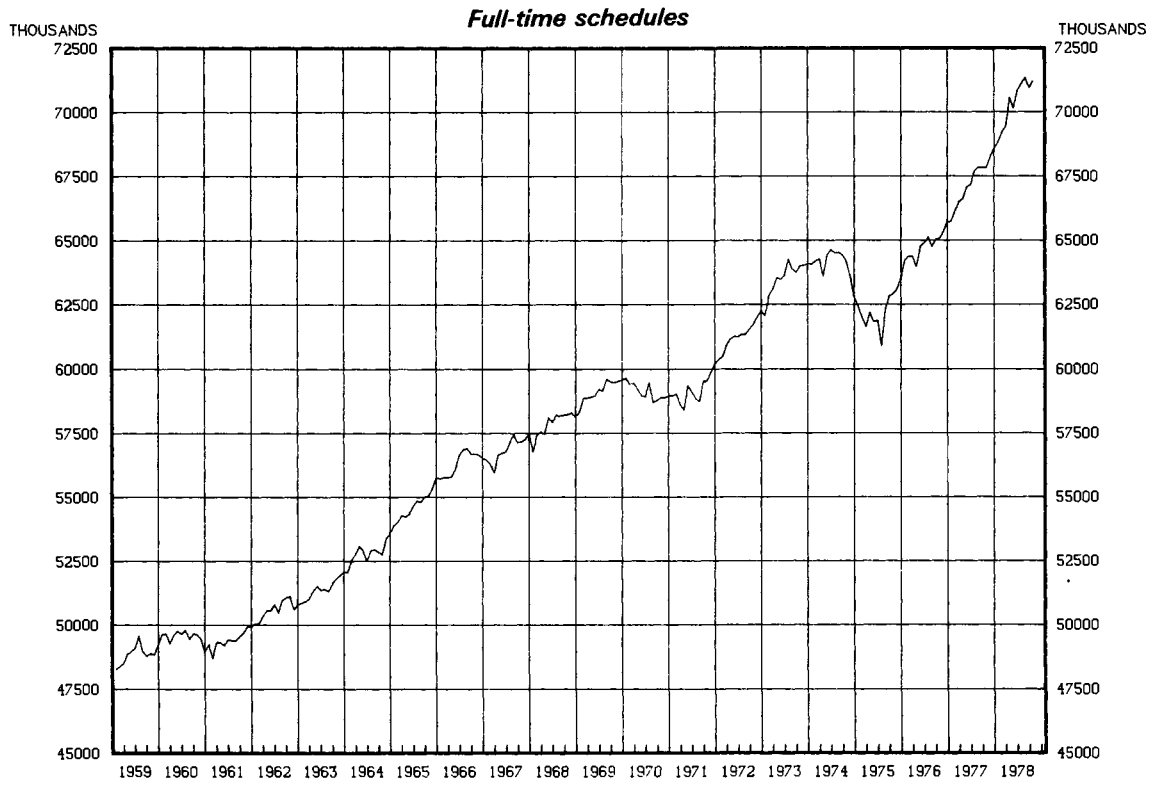


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

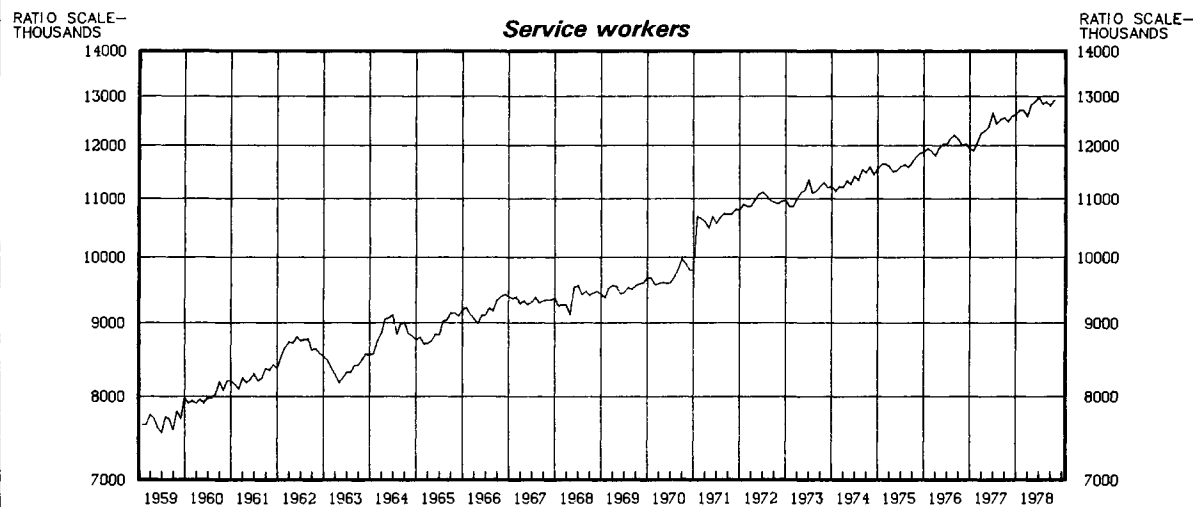
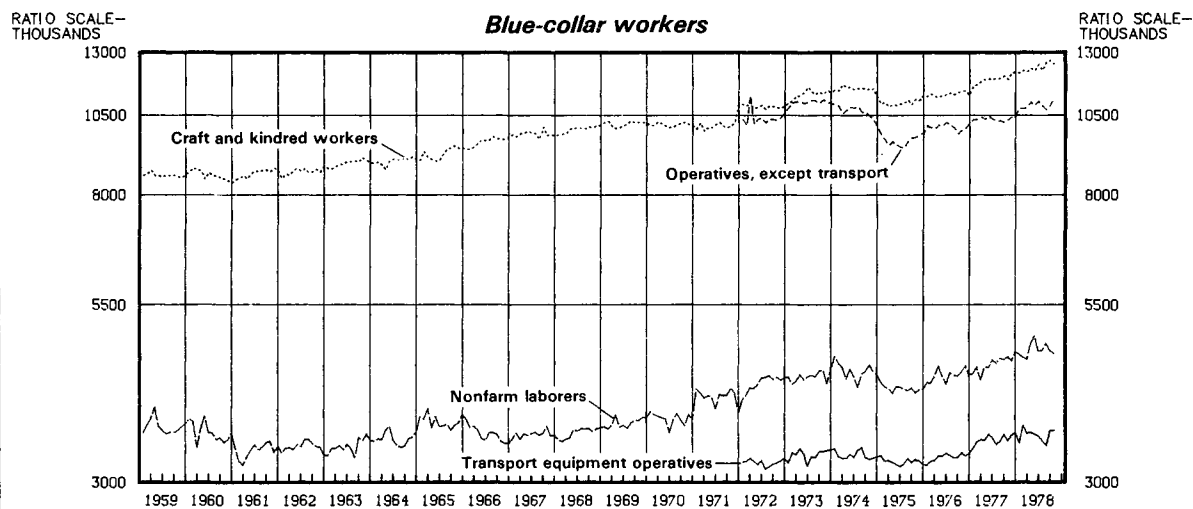
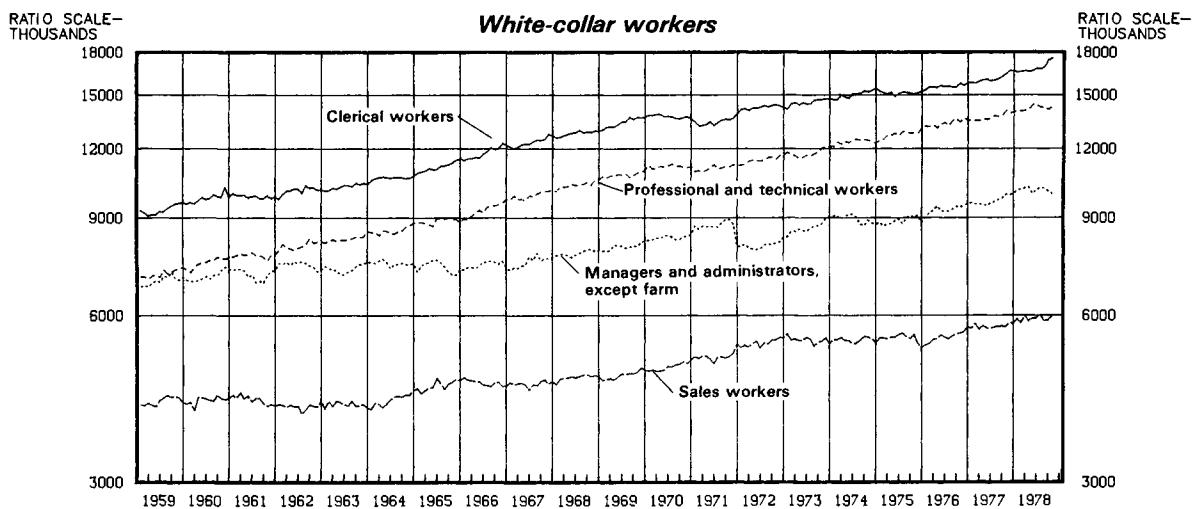
(Seasonally adjusted)



SOURCE: Table A-42.

Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)



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

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

(Seasonally adjusted)

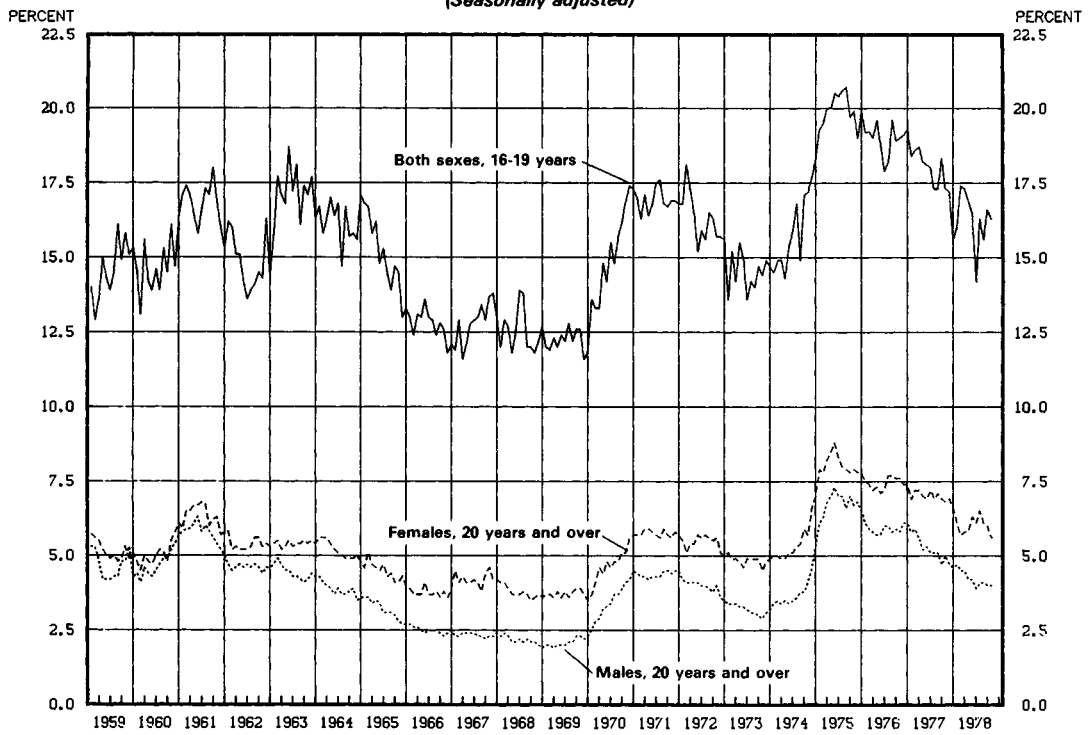
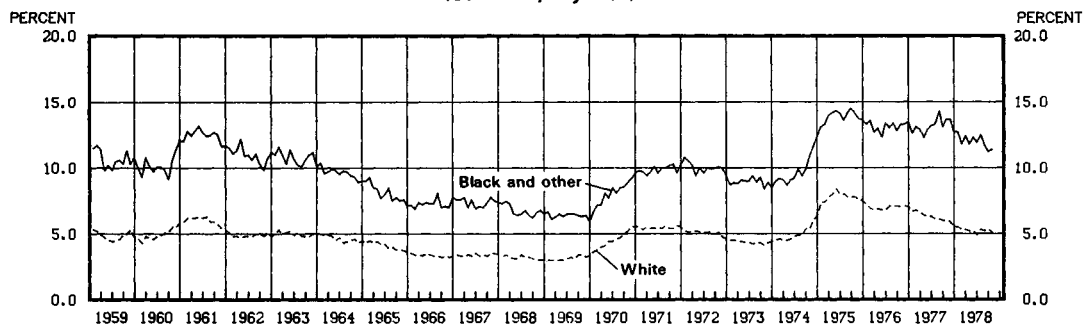
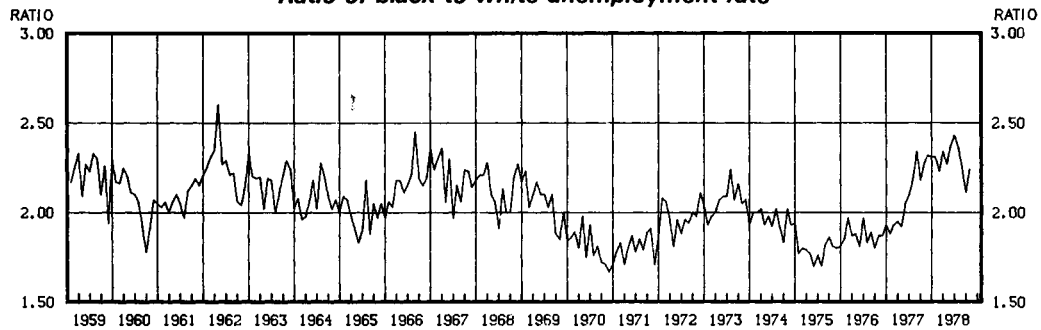


Chart 11. Unemployment rates by race

(Seasonally adjusted)

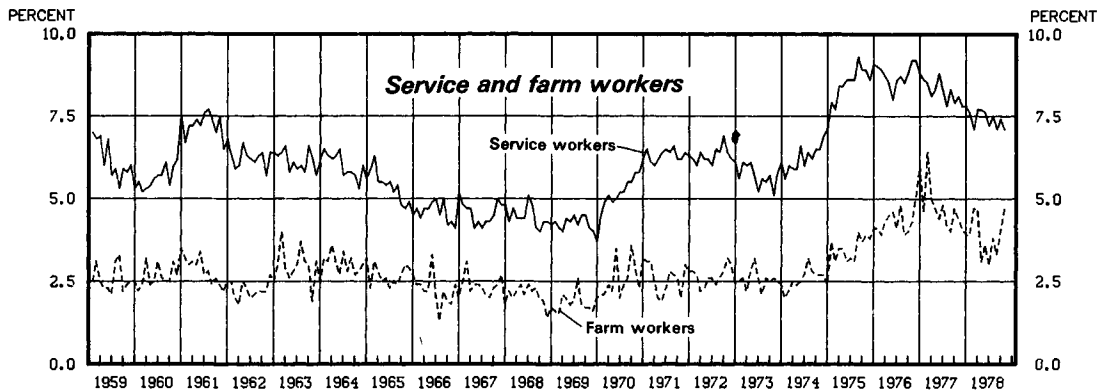
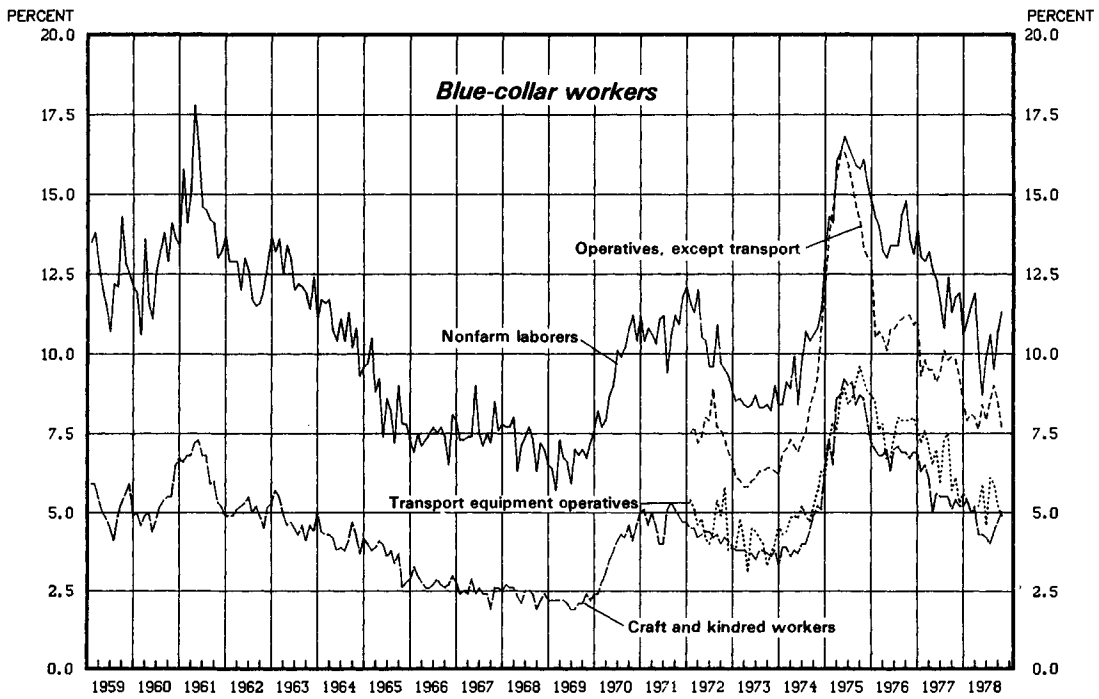
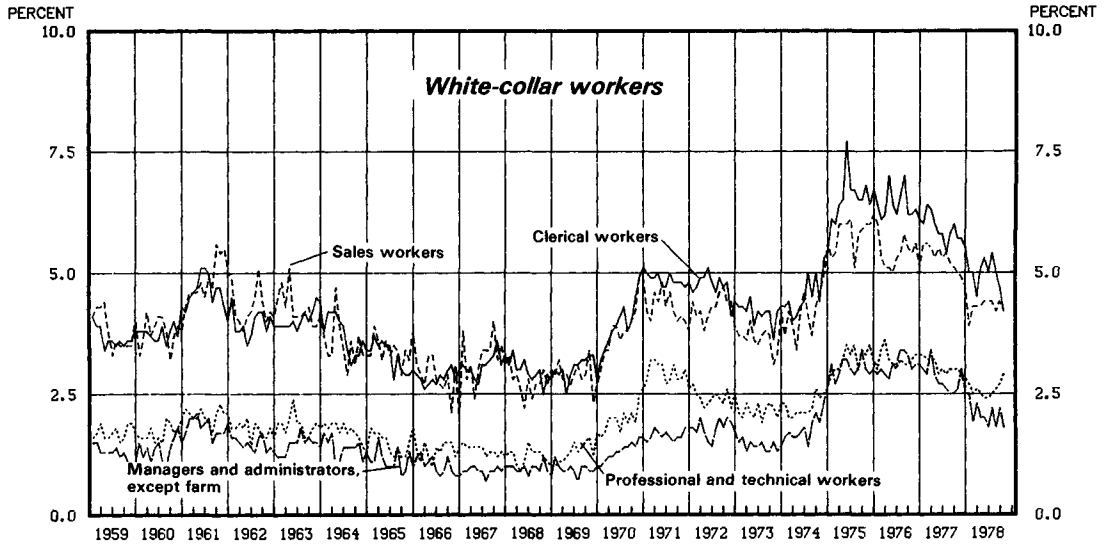


Ratio of black-to-white unemployment rate



SOURCE: Table A-35.

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



SOURCE: Table A-36.

Chart 13. Duration of unemployment

(Seasonally adjusted)

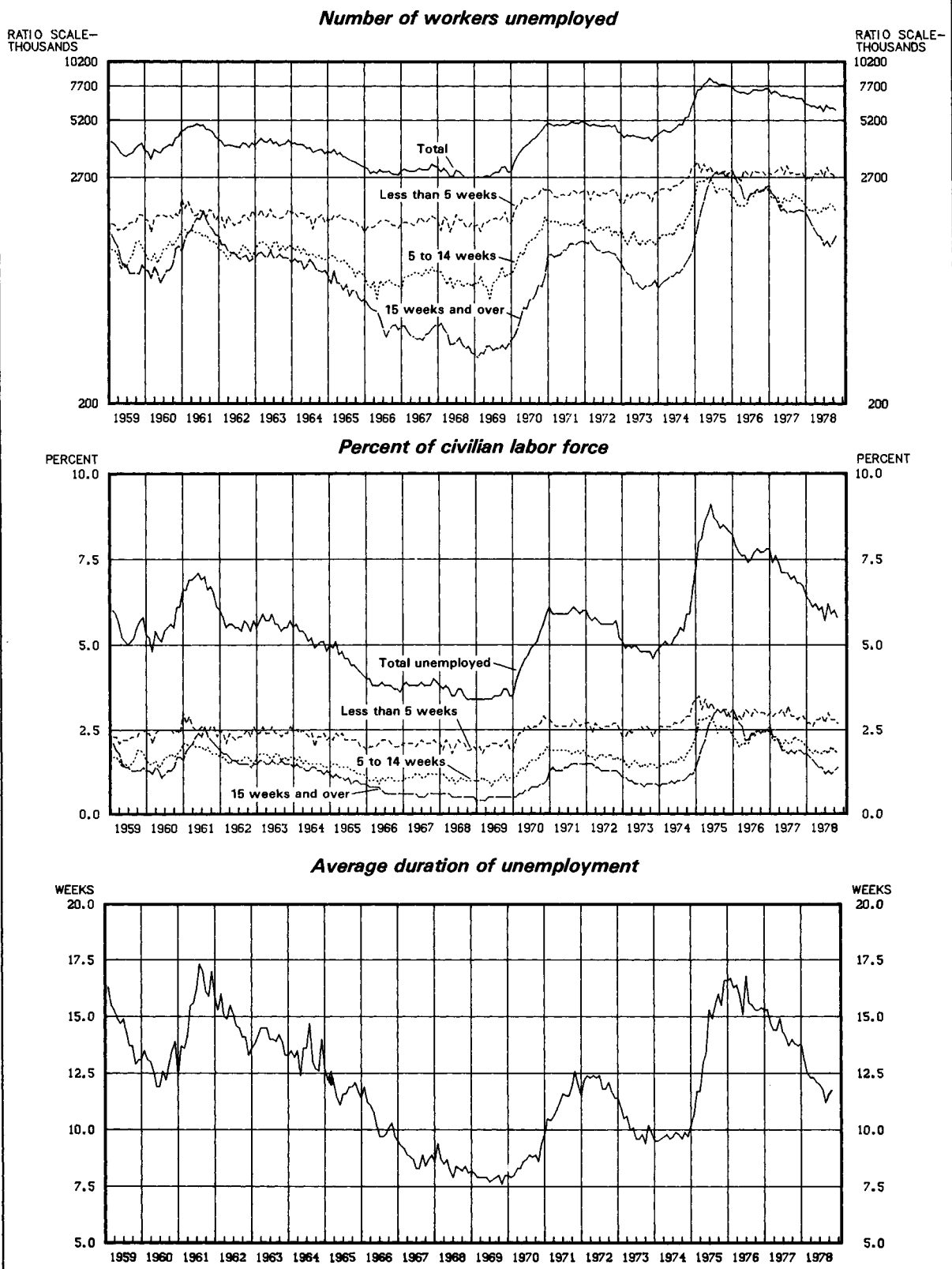
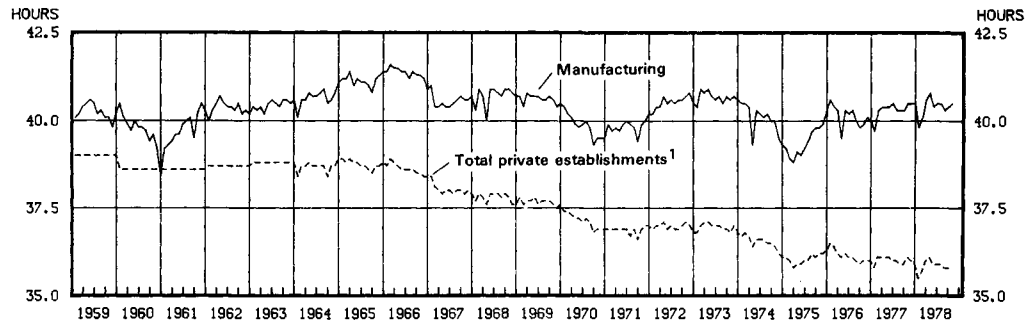
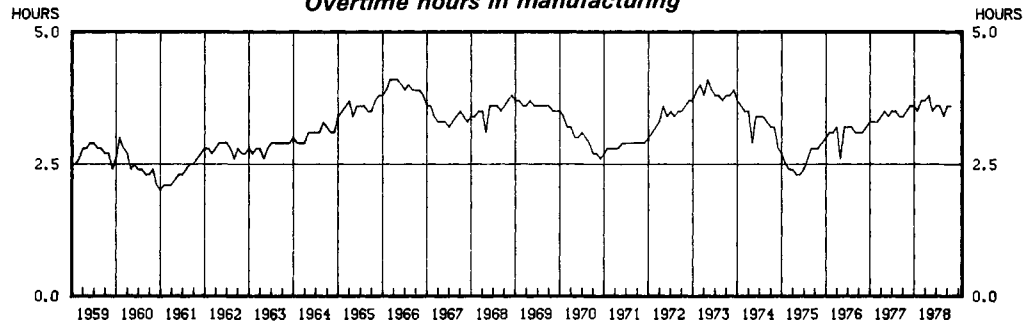


Chart 14. Average weekly hours in nonagricultural industries
(Seasonally adjusted)



Overtime hours in manufacturing

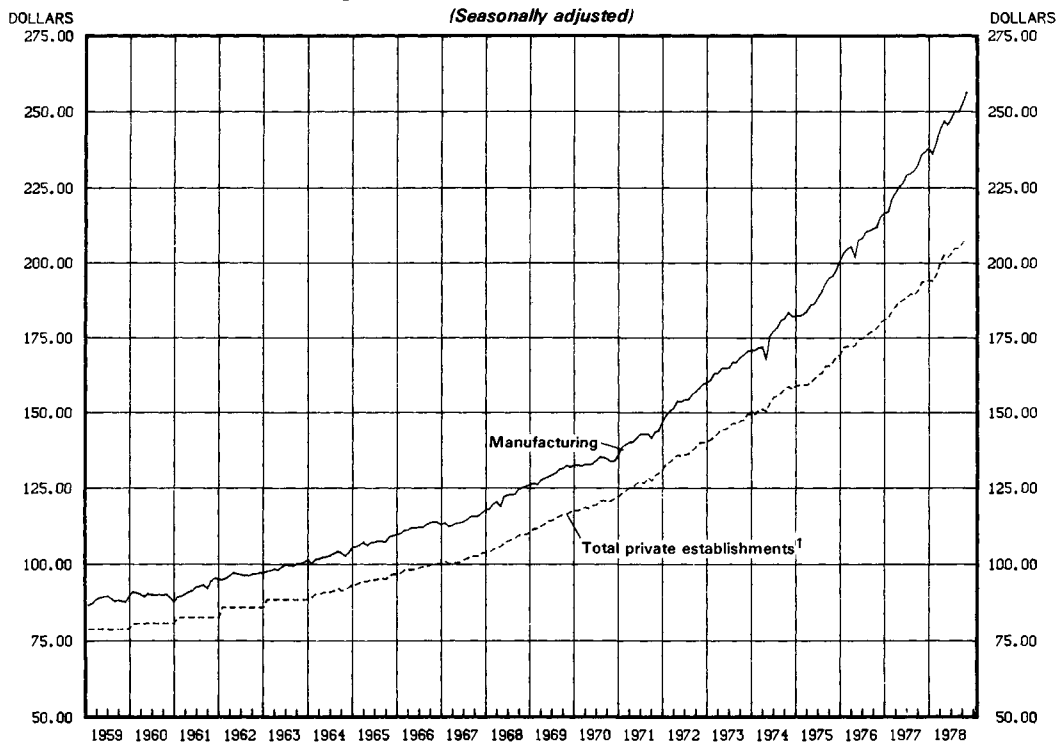


¹ Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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



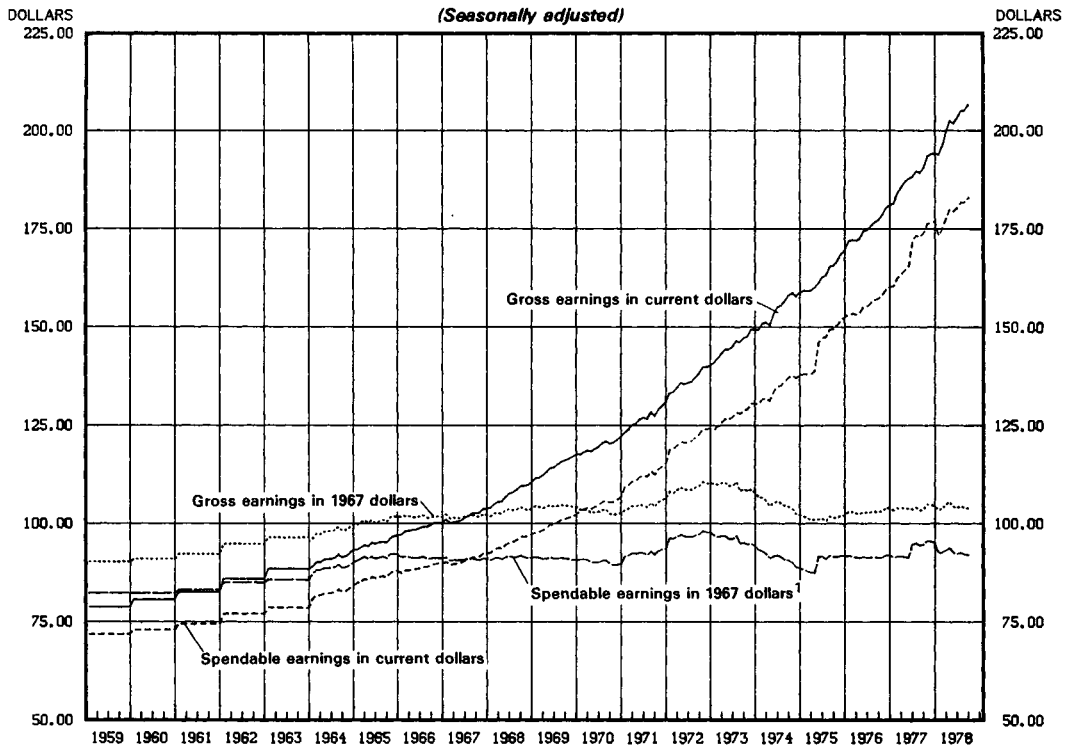
¹ Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-9.

Chart 16. Total private gross and spendable weekly earnings

(Seasonally adjusted)



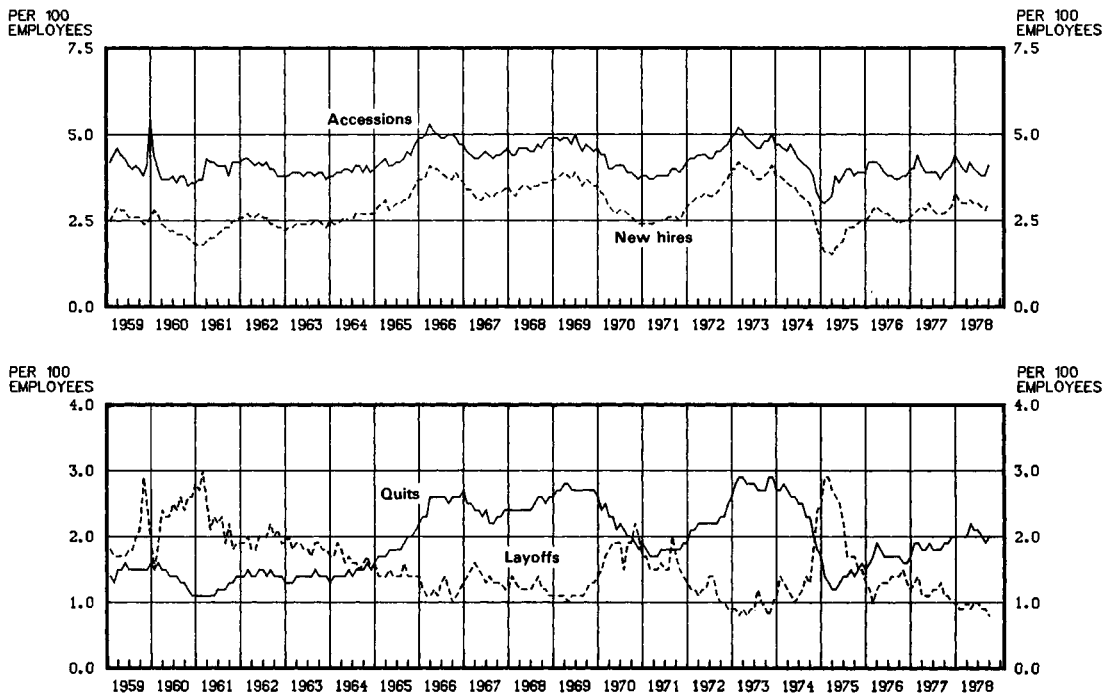
¹ Married worker with three dependents.

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	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force	
TOTAL										
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,694
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953 ¹	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 ¹	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.3	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	3.2	51,354
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,327
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 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 ¹	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
Monthly data, seasonally adjusted²										
1977:										
October.....	159,334	100,205	62.9	98,071	91,383	3,243	88,140	6,688	6.8	59,130
November.....	159,522	101,009	63.3	98,877	92,214	3,357	88,857	6,663	6.7	58,512
December.....	159,736	101,048	63.3	98,919	92,609	3,323	89,286	6,310	6.4	58,689
1978:										
January ¹	159,937	101,228	63.3	99,107	92,881	3,354	89,527	6,226	6.3	58,709
February.....	160,128	101,217	63.2	99,093	93,003	3,242	89,761	6,090	6.1	58,911
March.....	160,313	101,536	63.3	99,414	93,266	3,310	89,956	6,148	6.2	58,776
April.....	160,504	101,902	63.5	99,784	93,801	3,275	90,526	5,983	6.0	58,602
May.....	160,713	102,374	63.7	100,261	94,112	3,235	90,877	6,149	6.1	58,340
June.....	160,928	102,671	63.8	100,573	94,819	3,473	91,346	5,754	5.7	58,257
July.....	161,148	102,734	63.8	100,618	94,425	3,387	91,038	6,193	6.2	58,414
August.....	161,348	102,671	63.6	100,549	94,581	3,360	91,221	5,968	5.9	58,677
September.....	161,570	102,993	63.7	100,870	94,868	3,411	91,457	6,002	6.0	58,577
October.....	161,829	103,184	63.8	101,062	95,192	3,380	91,812	5,870	5.8	58,645

¹ Not strictly comparable with data for prior years. For an explanation, see "Historic Comparability" under the Household Data section of the 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, 1967 to date

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force					Not in labor force	
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agri-culture	Nonagri-cultural industries	Number		Percent of labor force
MALES										
Annual averages										
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972.....	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
Monthly data, seasonally adjusted²										
1977:										
October.....	76,352	59,826	78.4	57,810	54,341	2,642	51,699	3,469	6.0	16,526
November.....	76,439	60,112	78.6	58,097	54,745	2,685	52,060	3,352	5.8	16,327
December.....	76,541	60,236	78.7	58,225	55,012	2,702	52,310	3,213	5.5	16,305
1978:										
January ¹	76,636	60,210	77.4	58,207	54,975	2,749	52,226	3,232	5.6	16,426
February.....	76,725	60,149	78.4	58,142	54,897	2,566	52,331	3,245	5.6	16,577
March.....	76,811	60,285	78.5	58,284	55,013	2,613	52,400	3,271	5.6	16,526
April.....	76,901	60,261	78.4	58,264	55,208	2,576	52,632	3,056	5.2	16,640
May.....	77,000	60,439	78.5	58,447	55,446	2,638	52,808	3,001	5.1	16,561
June.....	77,102	60,570	78.6	58,597	55,869	2,778	53,091	2,728	4.7	16,531
July.....	77,206	60,489	78.3	58,499	55,534	2,736	52,798	2,965	5.1	16,718
August.....	77,301	60,448	78.2	58,455	55,529	2,705	52,824	2,926	5.0	16,854
September.....	77,407	60,458	78.1	58,465	55,504	2,752	52,752	2,961	5.1	16,949
October.....	77,546	60,706	78.3	58,714	55,701	2,710	52,991	3,013	5.1	16,840
FEMALES										
Annual averages										
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 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.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,087	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
Monthly data, seasonally adjusted²										
1977:										
October.....	82,983	40,379	48.7	40,261	37,042	601	36,441	3,219	8.0	42,604
November.....	83,082	40,898	49.2	40,780	37,469	672	36,797	3,311	8.1	42,185
December.....	83,195	40,812	49.1	40,694	37,597	621	36,976	3,097	7.6	42,385
1978:										
January ¹	83,301	41,017	49.2c	40,900	37,906	605	37,301	2,994	7.3	42,284
February.....	83,403	41,068	49.2	40,951	38,106	676	37,430	2,845	6.9	42,335
March.....	83,501	41,252	49.4	41,130	38,253	697	37,556	2,877	7.0	42,250
April.....	83,603	41,641	49.8	41,520	38,593	699	37,894	2,927	7.0	41,962
May.....	83,714	41,935	50.1	41,814	38,666	597	38,069	3,148	7.5	41,779
June.....	83,826	42,101	50.2	41,976	38,950	695	38,255	3,026	7.2	41,725
July.....	83,941	42,245	50.3	42,119	38,891	651	38,240	3,228	7.7	41,696
August.....	84,047	42,224	50.2	42,094	39,052	655	38,397	3,042	7.2	41,824
September.....	84,162	42,535	50.5	42,405	39,364	659	38,705	3,041	7.2	41,628
October.....	84,283	42,478	50.4	42,348	39,491	670	38,821	2,857	6.7	41,805

¹ See footnote 1, table A-1.

² See footnote 2, table A-1.

c = corrected.

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

[Numbers in thousands]

Sex, age, and race	October 1978										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	60,678	78.2	58,685	56,045	2,640	4.5	16,868	317	4,491	1,690	10,370
16 to 21 years	8,651	67.8	7,977	6,976	1,002	12.6	4,106	11	3,717	28	349
16 to 19 years	5,190	61.3	4,897	4,156	741	15.1	3,275	11	3,023	10	231
16 to 17 years	2,089	49.5	2,066	1,673	393	19.0	2,131	8	1,999	3	121
18 to 19 years	3,101	73.0	2,831	2,483	348	12.3	1,144	3	1,025	7	109
20 to 64 years	53,499	89.7	51,799	49,957	1,843	3.6	6,117	113	1,468	1,202	3,334
20 to 24 years	8,770	86.3	8,013	7,423	590	7.4	1,398	13	1,101	49	235
25 to 54 years	37,586	94.5	36,644	35,569	1,075	2.9	2,169	59	365	657	1,088
25 to 29 years	8,479	95.1	8,108	7,748	359	4.4	433	5	215	52	161
30 to 34 years	7,553	96.0	7,307	7,102	204	2.8	318	17	90	63	148
35 to 39 years	6,183	96.8	5,988	5,835	154	2.6	205	3	26	81	95
40 to 44 years	5,230	95.4	5,140	5,037	103	2.0	254	6	20	86	141
45 to 49 years	5,068	92.7	5,036	4,927	109	2.2	399	14	11	136	238
50 to 54 years	5,073	90.0	5,066	4,921	144	2.9	561	14	4	239	305
55 to 64 years	7,144	73.7	7,142	6,965	178	2.5	2,550	41	3	495	2,011
55 to 59 years	4,386	82.5	4,385	4,285	100	2.3	933	18	3	289	623
60 to 64 years	2,758	63.0	2,757	2,680	78	2.8	1,618	23	--	207	1,388
65 years and over	1,989	21.0	1,989	1,932	56	2.8	7,476	193	--	478	6,806
65 to 69 years	1,171	31.2	1,171	1,141	30	2.6	2,581	55	--	169	2,357
70 years and over	818	14.3	818	791	27	3.2	4,896	139	--	309	4,449
White											
16 years and over	53,976	79.0	52,375	50,316	2,059	3.9	14,389	260	3,589	1,352	9,188
16 to 21 years	7,642	70.4	7,112	6,344	768	10.8	3,215	10	2,942	16	246
16 to 19 years	4,632	64.5	4,402	3,813	589	13.4	2,548	10	2,366	7	165
16 to 17 years	1,906	53.5	1,888	1,558	329	17.5	1,656	8	1,553	1	94
18 to 19 years	2,726	75.4	2,514	2,254	260	10.3	891	2	814	5	71
20 to 64 years	47,572	90.3	46,203	44,780	1,422	3.1	5,088	89	1,223	954	2,821
20 to 24 years	7,640	87.2	7,049	6,629	421	6.0	1,118	12	910	35	162
25 to 54 years	33,425	95.1	32,647	31,789	858	2.6	1,707	43	311	495	859
25 to 34 years	14,169	96.0	13,667	13,236	432	3.2	585	9	261	90	224
35 to 44 years	10,154	96.6	9,914	9,694	220	2.2	352	8	36	130	178
45 to 54 years	9,101	92.2	9,066	8,860	206	2.3	770	25	14	275	457
55 to 64 years	6,508	74.2	6,506	6,362	144	2.2	2,263	35	3	424	1,800
55 to 59 years	3,983	83.1	3,982	3,911	71	1.8	812	15	3	246	547
60 to 64 years	2,524	63.5	2,524	2,452	73	2.9	1,451	20	--	178	1,253
65 years and over	1,771	20.8	1,771	1,723	48	2.7	6,754	161	--	392	6,202
Black and other											
16 years and over	6,702	73.0	6,310	5,729	580	9.2	2,479	57	901	338	1,183
16 to 21 years	1,009	53.1	865	631	234	27.0	891	1	775	12	103
16 to 19 years	558	43.4	496	344	152	30.7	727	1	657	4	66
16 to 17 years	182	27.8	178	115	64	35.8	474	--	446	1	27
18 to 19 years	375	59.8	317	229	88	27.8	253	1	211	2	38
20 to 64 years	5,927	85.2	5,597	5,177	420	7.5	1,029	24	245	248	513
20 to 24 years	1,130	80.2	964	794	169	17.6	280	1	191	14	73
25 to 54 years	4,161	90.0	3,997	3,780	217	5.4	462	16	54	163	229
25 to 34 years	1,862	91.8	1,747	1,615	132	7.6	165	12	44	25	85
35 to 44 years	1,259	92.2	1,214	1,177	37	3.1	107	1	10	38	58
45 to 54 years	1,040	84.6	1,036	988	48	4.6	190	3	--	101	86
55 to 64 years	636	68.8	636	602	34	5.3	288	6	--	71	211
55 to 59 years	403	76.9	403	374	29	7.1	121	3	--	42	76
60 to 64 years	233	58.3	233	228	5	2.2	167	3	--	28	136
65 years and over	217	23.1	217	209	8	3.7	722	32	--	86	604

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	October 1978										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	42,999	51.0	42,870	40,049	2,820	6.6	41,283	32,069	4,313	1,032	3,870
16 to 21 years	7,193	57.6	7,142	6,187	955	13.4	5,304	3,614	3,614	22	336
16 to 19 years	4,388	53.0	4,367	3,678	689	15.8	3,897	612	3,042	17	226
16 to 17 years	1,845	45.1	1,844	1,527	317	17.2	2,242	149	2,004	7	81
18 to 19 years	2,543	60.6	2,523	2,151	372	14.8	1,655	463	1,037	9	145
20 to 64 years	37,531	60.0	37,423	35,333	2,090	5.6	24,975	21,562	1,260	425	1,727
20 to 24 years	7,067	69.6	7,000	6,397	603	8.6	3,085	1,995	847	17	226
25 to 54 years	25,961	62.5	25,919	24,570	1,351	5.2	15,564	14,113	405	204	843
25 to 29 years	6,057	66.7	6,028	5,640	388	6.4	3,023	2,701	162	13	147
30 to 34 years	5,015	62.1	5,007	4,704	303	6.1	3,060	2,814	108	11	127
35 to 39 years	4,219	62.8	4,217	4,007	210	5.0	2,500	2,283	59	33	125
40 to 44 years	3,675	63.3	3,674	3,497	176	4.8	2,128	1,965	31	24	107
45 to 49 years	3,546	61.4	3,546	3,407	138	3.9	2,225	2,002	30	53	140
50 to 54 years	3,449	56.8	3,448	3,314	134	3.9	2,628	2,347	14	70	197
55 to 64 years	4,503	41.6	4,503	4,367	136	3.0	6,326	5,455	9	204	658
55 to 59 years	2,836	48.5	2,836	2,744	91	3.2	3,008	2,639	7	93	268
60 to 64 years	1,667	33.4	1,667	1,623	45	2.7	3,318	2,815	2	111	390
65 years and over	1,080	8.0	1,080	1,039	41	3.8	12,412	9,895	11	590	1,917
65 to 69 years	684	14.5	684	657	27	3.9	4,023	3,386	2	108	528
70 years and over	396	4.5	396	381	14	3.6	8,389	6,509	9	482	1,389
White											
16 years and over	37,202	50.6	37,099	34,981	2,118	5.7	36,306	28,741	3,432	817	3,317
16 to 21 years	6,340	60.1	6,298	5,611	687	10.9	4,204	1,094	2,888	13	208
16 to 19 years	3,920	56.2	3,903	3,389	514	13.2	3,054	489	2,423	10	132
16 to 17 years	1,683	49.0	1,682	1,429	252	15.0	1,748	119	1,580	4	45
18 to 19 years	2,238	63.1	2,222	1,960	262	11.8	1,306	370	843	6	87
20 to 64 years	32,350	59.6	32,264	30,696	1,568	4.9	21,950	19,162	999	308	1,481
20 to 24 years	6,082	70.7	6,029	5,617	412	6.8	2,521	1,682	667	9	163
25 to 54 years	22,232	61.8	22,200	21,158	1,043	4.7	13,725	12,535	323	144	723
25 to 34 years	9,364	63.6	9,335	8,827	508	5.4	5,357	4,914	211	19	213
35 to 44 years	6,745	62.3	6,742	6,435	307	4.6	4,083	3,771	75	40	197
45 to 54 years	6,124	58.8	6,123	5,896	227	3.7	4,285	3,850	37	84	313
55 to 64 years	4,035	41.4	4,034	3,921	113	2.8	5,704	4,945	9	155	595
55 to 59 years	2,542	48.5	2,542	2,469	72	2.8	2,694	2,379	7	66	242
60 to 64 years	1,493	33.2	1,493	1,452	41	2.7	3,010	2,566	2	89	353
65 years and over	932	7.6	932	896	36	3.9	11,302	9,090	9	498	1,704
Black and other											
16 years and over	5,798	53.8	5,771	5,069	702	12.2	4,977	3,328	881	215	553
16 to 21 years	854	43.7	844	576	268	31.8	1,100	238	727	8	128
16 to 19 years	468	35.7	464	289	175	37.7	843	124	618	6	94
16 to 17 years	163	24.8	162	98	65	39.8	494	30	424	3	36
18 to 19 years	305	46.6	302	191	110	36.6	349	94	194	3	58
20 to 64 years	5,182	63.1	5,159	4,637	522	10.1	3,025	2,399	261	117	247
20 to 24 years	985	63.6	971	780	191	19.7	563	312	180	8	63
25 to 54 years	3,728	67.0	3,720	3,411	308	8.3	1,839	1,577	81	60	120
25 to 34 years	1,708	70.2	1,700	1,516	183	10.8	726	601	59	5	61
35 to 44 years	1,149	67.9	1,149	1,070	79	6.9	544	477	15	17	35
45 to 54 years	871	60.5	871	825	46	5.3	569	499	7	39	24
55 to 64 years	469	43.0	469	446	23	4.9	622	510	--	49	63
55 to 59 years	294	48.4	294	275	19	6.5	314	261	--	27	26
60 to 64 years	175	36.2	175	171	4	2.3	308	249	--	22	37
65 years and over	148	11.7	148	143	5	3.4	1,110	805	2	92	212

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	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
MALES								
16 years and over	59,741	60,678	78.2	78.2	57,725	58,685	77.7	77.7
16 to 19 years	5,139	5,190	60.5	61.3	4,815	4,897	58.9	59.9
16 to 17 years	2,083	2,089	49.0	49.5	2,049	2,066	48.6	49.2
18 to 19 years	3,056	3,101	71.9	73.0	2,765	2,831	69.8	71.2
20 to 24 years	8,547	8,770	85.4	86.3	7,798	8,013	84.3	85.1
25 to 54 years	36,966	37,586	94.7	94.5	36,025	36,644	94.6	94.4
25 to 34 years	15,672	16,032	95.8	95.5	15,055	15,414	95.6	95.4
35 to 44 years	11,048	11,413	96.3	96.1	10,763	11,128	96.2	96.0
45 to 54 years	10,246	10,141	91.6	91.4	10,207	10,102	91.5	91.3
55 to 64 years	7,138	7,144	74.6	73.7	7,136	7,142	74.6	73.7
55 to 59 years	4,372	4,386	83.5	82.5	4,370	4,385	83.5	82.5
60 to 64 years	2,766	2,758	63.9	63.0	2,766	2,757	63.9	63.0
65 years and over	1,950	1,989	21.1	21.0	1,950	1,989	21.1	21.0
White								
16 years and over	53,366	53,976	79.1	79.0	51,717	52,375	78.6	78.4
16 to 19 years	4,587	4,632	63.4	64.5	4,323	4,402	62.1	63.3
16 to 17 years	1,913	1,906	53.2	53.5	1,885	1,888	52.8	53.3
18 to 19 years	2,674	2,726	73.6	75.4	2,438	2,514	71.8	73.8
20 to 24 years	7,470	7,640	86.4	87.2	6,875	7,049	85.4	86.3
25 to 54 years	32,987	33,425	95.5	95.1	32,198	32,647	95.4	95.0
25 to 34 years	13,913	14,169	96.4	96.0	13,402	13,667	96.3	95.9
35 to 44 years	9,824	10,154	96.8	96.6	9,582	9,914	96.7	96.6
45 to 54 years	9,250	9,101	92.7	92.2	9,214	9,066	92.7	92.2
55 to 64 years	6,542	6,508	75.5	74.2	6,541	6,506	75.5	74.2
55 to 59 years	3,989	3,983	84.4	83.1	3,988	3,982	84.4	83.1
60 to 64 years	2,553	2,524	64.9	53.5	2,553	2,524	64.9	63.5
65 years and over	1,779	1,771	21.3	20.8	1,779	1,771	21.3	20.8
Black and other								
16 years and over	6,375	6,702	71.5	73.0	6,008	6,310	70.3	71.8
16 to 19 years	552	558	43.5	43.4	492	496	40.7	40.5
16 to 17 years	170	182	26.1	27.8	164	178	25.5	27.3
18 to 19 years	382	375	61.6	59.8	327	317	57.9	55.6
20 to 24 years	1,076	1,130	79.1	80.2	923	964	76.5	77.5
25 to 54 years	3,980	4,161	88.9	90.0	3,827	3,997	88.5	89.6
25 to 34 years	1,758	1,862	90.9	91.8	1,653	1,747	90.3	91.3
35 to 44 years	1,224	1,259	92.1	92.2	1,181	1,214	91.8	91.9
45 to 54 years	997	1,040	82.2	84.6	993	1,036	82.2	84.5
55 to 64 years	596	636	66.2	68.8	596	636	66.2	68.8
55 to 59 years	382	403	75.5	76.9	382	403	75.5	76.9
60 to 64 years	214	233	54.2	58.3	214	233	54.2	58.3
65 years and over	171	217	18.7	23.1	171	217	18.7	23.1

HOUSEHOLD DATA

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
FEMALES								
16 years and over	40,844	42,999	49.2	51.0	40,726	42,870	49.1	50.9
16 to 19 years	4,195	4,388	50.4	53.0	4,177	4,367	50.3	52.8
16 to 17 years	1,692	1,845	41.1	45.1	1,691	1,844	41.1	45.1
18 to 19 years	2,503	2,543	59.5	60.6	2,486	2,523	59.3	60.4
20 to 24 years	6,727	7,067	67.4	69.6	6,662	7,000	67.1	69.4
25 to 54 years	24,401	25,961	59.8	62.5	24,366	25,919	59.8	62.5
25 to 34 years	10,208	11,071	61.0	64.5	10,177	11,035	61.0	64.5
35 to 44 years	7,343	7,894	60.6	63.0	7,339	7,891	60.6	63.0
45 to 54 years	6,850	6,995	57.2	59.0	6,849	6,994	57.2	59.0
55 to 64 years	4,428	4,503	41.4	41.6	4,428	4,503	41.4	41.6
55 to 59 years	2,792	2,792	48.5	48.5	2,792	2,792	48.5	48.5
60 to 64 years	1,636	1,667	33.1	33.4	1,636	1,667	33.1	33.4
65 years and over	1,093	1,080	8.3	8.0	1,093	1,080	8.3	8.0
White								
16 years and over	35,459	37,202	48.9	50.6	35,364	37,099	48.8	50.5
16 to 19 years	3,766	3,920	53.6	56.2	3,751	3,903	53.5	56.1
16 to 17 years	1,569	1,683	45.3	49.0	1,568	1,682	45.3	49.0
18 to 19 years	2,197	2,238	61.7	63.1	2,182	2,222	61.5	63.0
20 to 24 years	5,829	6,082	68.7	70.7	5,778	6,029	68.5	70.5
25 to 54 years	20,944	22,232	59.1	61.8	20,916	22,200	59.1	61.8
25 to 34 years	8,648	9,364	60.0	63.6	8,623	9,335	60.0	63.5
35 to 44 years	6,292	6,745	60.1	62.3	6,289	6,742	60.1	62.3
45 to 54 years	6,005	6,124	56.9	58.8	6,005	6,123	56.9	58.8
55 to 64 years	3,948	4,035	41.0	41.4	3,948	4,034	41.0	41.4
55 to 59 years	2,483	2,542	48.0	48.5	2,483	2,542	48.0	48.5
60 to 64 years	1,465	1,493	32.8	33.2	1,465	1,493	32.8	33.2
65 years and over	972	932	8.1	7.6	972	932	8.1	7.6
Black and other								
16 years and over	5,385	5,798	51.5	53.8	5,362	5,771	51.4	53.7
16 to 19 years	429	468	33.1	35.7	426	464	32.9	35.5
16 to 17 years	123	163	18.8	24.8	123	162	18.8	24.7
18 to 19 years	306	305	47.5	46.6	304	302	47.3	46.3
20 to 24 years	898	985	59.9	63.6	885	971	59.6	63.3
25 to 54 years	3,455	3,728	64.1	67.0	3,449	3,720	64.1	66.9
25 to 34 years	1,560	1,708	67.2	70.2	1,554	1,700	67.1	70.1
35 to 44 years	1,051	1,149	63.9	67.9	1,051	1,149	63.9	67.9
45 to 54 years	845	871	59.5	60.5	845	871	59.5	60.5
55 to 64 years	481	469	45.3	43.0	481	469	45.3	43.0
55 to 59 years	310	294	53.0	48.4	310	294	53.0	48.4
60 to 64 years	171	175	35.9	36.2	171	175	35.9	36.2
65 years and over	121	148	10.0	11.7	121	148	10.0	11.7

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

(Numbers in thousands)

Sex and age	October 1978						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
Total		Agriculture	Nonagricultural industries	Number	Percent of labor force		
Total							
16 years and over	10,302	9,148	294	8,854	1,154	11.2	6,462
16 to 19 years	821	537	23	514	284	34.6	1,408
18 to 17 years	280	174	5	169	107	38.0	882
18 to 19 years	541	363	18	345	178	32.8	525
20 to 24 years	1,667	1,335	44	1,291	331	19.9	722
25 to 54 years	6,511	6,034	151	5,884	476	7.3	1,914
25 to 34 years	2,896	2,605	54	2,551	291	10.1	691
35 to 44 years	2,007	1,903	41	1,861	105	5.2	558
45 to 54 years	1,607	1,527	55	1,472	80	5.0	666
55 to 64 years	976	926	41	885	50	5.1	807
55 to 59 years	614	574	23	551	40	6.6	377
60 to 64 years	361	352	17	335	9	2.6	430
65 years and over	328	316	37	279	12	3.8	1,611
Males							
16 years and over	5,349	4,828	259	4,568	521	9.7	2,170
16 to 19 years	422	294	23	272	127	30.1	650
18 to 17 years	145	95	5	90	51	35.2	433
18 to 19 years	277	200	18	182	78	28.2	216
20 to 24 years	834	677	42	635	156	18.7	229
25 to 54 years	3,351	3,150	127	3,023	201	6.0	412
25 to 34 years	1,449	1,328	44	1,284	121	8.4	135
35 to 44 years	1,029	993	34	958	36	3.5	100
45 to 54 years	872	829	48	781	44	5.0	179
55 to 64 years	551	523	36	487	28	5.1	261
55 to 59 years	346	323	19	305	22	6.4	110
60 to 64 years	205	200	17	183	5	2.4	152
65 years and over	191	184	33	151	7	3.7	616
Females							
16 years and over	4,953	4,320	35	4,286	633	12.8	4,292
16 to 19 years	399	243	--	242	157	39.2	758
18 to 17 years	135	79	--	79	56	41.5	449
18 to 19 years	264	163	--	163	100	38.0	309
20 to 24 years	833	658	2	656	175	21.0	493
25 to 54 years	3,160	2,884	24	2,861	275	8.7	1,502
25 to 34 years	1,447	1,277	10	1,267	170	11.7	556
35 to 44 years	978	910	7	903	69	7.0	458
45 to 54 years	735	698	7	691	36	5.0	487
55 to 64 years	425	403	5	398	22	5.1	546
55 to 59 years	268	251	4	246	18	6.6	267
60 to 64 years	156	152	--	152	4	2.5	278
65 years and over	137	132	4	128	5	3.7	995

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

HOUSEHOLD DATA

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

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
TOTAL								
Total noninstitutional population	159,334	161,829	67,852	69,081	74,660	75,998	16,822	16,750
Total labor force	100,584	103,677	54,601	55,488	36,649	38,611	9,334	9,578
Percent of population	63.1	64.1	80.5	80.3	49.1	50.8	55.5	57.2
Civilian labor force	98,451	101,555	52,910	53,788	36,549	38,503	8,992	9,264
Employed	92,230	96,095	50,610	51,889	34,109	36,372	7,511	7,834
Agriculture	3,408	3,553	2,427	2,462	617	690	364	402
Nonagricultural industries	88,822	92,541	48,182	49,428	33,493	35,682	7,147	7,432
Unemployed	6,221	5,460	2,300	1,899	2,440	2,131	1,480	1,431
Percent of labor force	6.3	5.4	4.3	3.5	6.7	5.5	16.5	15.4
Not in labor force	58,750	58,152	13,251	13,593	38,012	37,387	7,488	7,172
White								
Total noninstitutional population	139,962	141,873	60,203	61,185	65,503	66,534	14,256	14,154
Total labor force	88,825	91,178	48,779	49,343	31,693	33,282	8,353	8,553
Percent of population	63.5	64.3	81.0	80.6	48.4	50.0	58.6	60.4
Civilian labor force	87,081	89,475	47,394	47,974	31,613	33,196	8,074	8,305
Employed	82,307	85,297	45,640	46,503	29,724	31,592	6,942	7,201
Agriculture	3,150	3,196	2,245	2,180	555	642	350	374
Nonagricultural industries	79,157	82,101	43,396	44,324	29,169	30,950	6,592	6,827
Unemployed	4,774	4,178	1,753	1,470	1,889	1,604	1,131	1,104
Percent of labor force	5.5	4.7	3.7	3.1	6.0	4.8	14.0	13.3
Not in labor force	51,137	50,696	11,425	11,842	33,810	33,252	5,902	5,602
Black and other								
Total noninstitutional population	19,372	19,955	7,649	7,896	9,157	9,464	2,566	2,595
Total labor force	11,759	12,500	5,823	6,144	4,955	5,330	981	1,025
Percent of population	60.7	62.6	76.1	77.8	54.1	56.3	38.2	39.5
Civilian labor force	11,370	12,080	5,516	5,814	4,936	5,307	918	959
Employed	9,923	10,798	4,969	5,386	4,385	4,780	569	632
Agriculture	258	358	183	282	61	48	14	27
Nonagricultural industries	9,665	10,440	4,787	5,104	4,323	4,732	555	605
Unemployed	1,447	1,283	547	428	551	527	349	327
Percent of labor force	12.7	10.6	9.9	7.4	11.2	9.9	38.0	34.1
Not in labor force	7,613	7,456	1,826	1,751	4,202	4,135	1,585	1,570

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

[Numbers in thousands]

Employment status	October 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Total noninstitutional population	25,254	12,757	12,497	21,400	10,857	10,543	3,853	1,900	1,954
Total labor force	15,844	8,651	7,193	13,982	7,642	6,340	1,862	1,009	854
Percent of population	62.7	67.8	57.6	65.3	70.4	60.1	48.3	53.1	43.7
Civilian labor force	15,119	7,977	7,142	13,410	7,112	6,298	1,709	865	844
Employed	13,162	6,976	6,187	11,955	6,344	5,611	1,207	631	576
Agriculture	577	463	114	535	420	115	43	43	—
Nonagricultural industries	12,585	6,512	6,073	11,420	5,924	5,496	1,165	588	576
Unemployed	1,957	1,002	955	1,455	768	687	502	234	268
Looking for full-time work	1,107	559	549	782	403	378	326	155	170
Looking for part-time work	850	443	406	674	365	309	176	78	98
Percent of labor force	12.9	12.6	13.4	10.9	10.8	10.9	29.4	27.0	31.8
Not in labor force	9,410	4,106	5,304	7,418	3,215	4,204	1,991	891	1,100
MAJOR ACTIVITY: GOING TO SCHOOL									
Civilian labor force	4,710	2,422	2,288	4,258	2,193	2,065	451	229	222
Employed	3,915	1,994	1,921	3,646	1,845	1,802	268	149	119
Agriculture	198	153	45	190	145	45	7	7	—
Nonagricultural industries	3,717	1,841	1,876	3,456	1,700	1,756	261	142	120
Unemployed	795	428	367	612	348	264	183	80	103
Looking for full-time work	73	43	29	43	30	13	30	13	16
Looking for part-time work	722	385	337	569	318	251	153	67	87
Percent of labor force	16.9	17.7	16.0	14.4	15.9	12.8	40.5	35.0	46.2
Not in labor force	7,331	3,717	3,614	5,830	2,942	2,888	1,501	775	727
MAJOR ACTIVITY: OTHER									
Civilian labor force	10,409	5,556	4,854	9,152	4,919	4,232	1,258	636	621
Employed	9,247	4,982	4,265	8,308	4,499	3,809	939	483	456
Agriculture	380	311	69	344	275	70	36	36	—
Nonagricultural industries	8,868	4,671	4,196	7,964	4,224	3,740	903	447	457
Unemployed	1,162	574	589	844	420	423	319	153	165
Looking for full-time work	1,035	515	519	739	374	365	296	142	154
Looking for part-time work	127	58	69	105	47	58	23	12	11
Percent of labor force	11.2	10.3	12.1	9.2	8.5	10.0	25.3	24.1	26.6
Not in labor force	2,079	389	1,690	1,589	272	1,316	490	116	374

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

[Numbers in thousands]

Race, sex, and age	October 1978								
	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	85,723	78,611	3,121	3,992	4.7	15,832	14,363	1,469	9.3
16 to 21 years	9,233	7,313	818	1,107	12.0	5,881	5,031	850	14.4
16 to 19 years	4,466	3,292	501	673	15.1	4,798	4,040	758	15.8
16 to 17 years	795	461	138	196	24.7	3,115	2,601	514	16.5
18 to 19 years	3,671	2,831	363	477	13.0	1,683	1,440	243	14.5
20 years and over	81,257	75,319	2,619	3,319	4.1	11,034	10,323	711	6.4
20 to 24 years	12,844	11,218	642	984	7.7	2,168	1,959	209	9.6
25 years and over	68,413	64,102	1,976	2,334	3.4	8,866	8,363	502	5.7
25 to 54 years	56,642	53,017	1,584	2,040	3.6	5,922	5,538	384	6.5
55 years and over	11,771	11,085	393	293	2.5	2,944	2,825	118	4.0
Males, 16 years and over	53,490	50,077	1,362	2,052	3.8	5,195	4,607	588	11.3
16 to 21 years	5,115	4,156	400	559	10.9	2,863	2,419	443	15.5
16 to 19 years	2,479	1,896	252	331	13.3	2,418	2,007	410	17.0
20 years and over	51,011	48,180	1,110	1,721	3.4	2,777	2,600	178	6.4
20 to 24 years	7,182	6,374	294	514	7.2	831	756	76	9.1
25 years and over	43,829	41,807	815	1,206	2.8	1,946	1,844	101	5.2
25 to 54 years	35,955	34,302	621	1,030	2.9	689	645	44	6.4
55 years and over	7,874	7,505	194	176	2.2	1,257	1,199	58	4.6
Females, 16 years and over	32,233	28,534	1,759	1,940	6.0	10,637	9,756	880	8.3
16 to 21 years	4,123	3,157	418	549	13.3	3,018	2,612	406	13.5
16 to 19 years	1,987	1,396	249	342	17.2	2,380	2,033	347	14.6
20 years and over	30,246	27,139	1,510	1,597	5.3	8,257	7,723	533	6.5
20 to 24 years	5,663	4,844	349	470	8.3	1,337	1,204	133	9.9
25 years and over	24,582	22,294	1,161	1,127	4.6	6,920	6,519	401	5.8
25 to 54 years	20,686	18,714	962	1,010	4.9	5,233	4,892	341	6.5
55 years and over	3,896	3,580	199	117	3.0	1,687	1,627	60	3.6
White									
Males, 16 years and over	47,736	45,038	1,107	1,592	3.3	4,640	4,172	468	10.1
16 to 21 years	4,509	3,784	322	403	8.9	2,603	2,238	365	14.0
16 to 19 years	2,208	1,759	199	250	11.3	2,193	1,854	339	15.5
20 years and over	45,527	43,278	908	1,342	2.9	2,446	2,318	129	5.3
20 to 24 years	6,302	5,692	243	367	5.8	747	693	53	7.1
25 years and over	39,225	37,587	665	974	2.5	1,700	1,624	76	4.5
25 to 54 years	32,057	30,722	504	832	2.6	589	564	26	4.4
55 years and over	7,168	6,865	161	142	2.0	1,110	1,059	50	4.5
Females, 16 years and over	27,490	24,633	1,433	1,424	5.2	9,609	8,915	694	7.2
16 to 21 years	3,592	2,854	360	378	10.5	2,706	2,397	309	11.4
16 to 19 years	1,761	1,294	220	247	14.0	2,143	1,876	267	12.5
20 years and over	25,729	23,339	1,213	1,177	4.6	7,467	7,040	427	5.7
20 to 24 years	4,848	4,241	292	314	6.5	1,181	1,083	98	8.3
25 years and over	20,882	19,097	921	862	4.1	6,285	5,957	330	5.3
25 to 54 years	17,397	15,872	766	757	4.4	4,804	4,520	285	5.9
55 years and over	3,485	3,225	155	105	3.0	1,481	1,438	44	3.0
Black and other									
Males, 16 years and over	5,754	5,039	255	460	8.0	555	435	120	21.7
16 to 21 years	605	372	78	155	25.7	260	181	78	30.2
16 to 19 years	271	137	53	81	29.7	224	153	71	31.8
20 years and over	5,483	4,902	202	380	6.9	331	282	49	14.8
20 to 24 years	879	682	51	147	16.7	85	62	22	26.6
25 years and over	4,604	4,221	152	233	5.1	246	220	26	10.6
25 to 54 years	3,897	3,581	118	199	5.1	99	81	18	18.2
55 years and over	706	640	34	34	4.8	147	139	8	5.4
Females, 16 years and over	4,743	3,902	326	516	10.9	1,027	841	186	18.1
16 to 21 years	531	303	58	170	32.1	313	215	98	31.3
16 to 19 years	226	102	29	95	42.0	237	158	80	33.6
20 years and over	4,517	3,800	296	421	9.3	790	683	107	13.5
20 to 24 years	815	603	56	156	19.1	156	121	35	22.7
25 years and over	3,702	3,197	241	265	7.2	634	563	71	11.2
25 to 54 years	3,291	2,842	196	253	7.7	429	374	55	12.8
55 years and over	411	355	45	13	3.2	205	189	15	7.3

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	October 1978									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over	101,555	63.6	96,095	5,460	5.4	58,152	32,386	8,803	2,722	14,241
Husbands ¹	40,775	81.6	39,885	890	2.2	9,181	122	244	1,121	7,695
With employed wife	20,737	92.3	20,345	391	1.9	1,742	15	129	348	1,248
With unemployed wife	1,117	93.9	1,057	60	5.4	72	2	4	12	54
With wife not in labor force	17,340	71.8	16,987	354	2.0	6,813	64	75	692	5,983
Wives	23,666	49.5	22,477	1,189	5.0	24,154	22,144	299	266	1,444
With employed husband	21,402	55.7	20,345	1,057	4.9	16,987	15,824	255	111	797
With unemployed husband	451	56.1	391	60	13.3	354	330	9	10	5
With husband not in labor force	1,813	21.0	1,741	72	4.0	6,813	5,991	36	146	641
Relatives in husband-wife families	13,860	60.8	12,360	1,500	10.8	8,924	1,270	6,069	365	1,221
16-19 years	6,541	56.0	5,666	875	13.4	5,132	147	4,720	13	253
20-24 years	4,776	75.0	4,364	412	8.6	1,590	134	1,223	38	194
25 years and over	2,543	53.6	2,330	213	8.4	2,202	989	126	314	774
Women who head families	4,892	58.9	4,514	378	7.7	3,413	2,815	126	118	353
Relatives in female-headed families	4,052	55.9	3,341	710	17.5	3,200	844	1,420	277	660
16-19 years	1,354	49.5	982	372	27.5	1,382	84	1,125	13	161
20-24 years	1,157	69.7	955	202	17.5	502	117	258	23	104
25 years and over	1,541	53.9	1,404	136	8.8	1,316	643	37	241	395
Persons not living in families ²	14,310	60.7	13,518	793	5.5	9,280	5,191	645	575	2,868

¹ Includes a small number of single, separated, widowed, or divorced men who head 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, sex, age, and race

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
Total, 16 years and over	3,040	2,640	5.3	4.5	3,181	2,820	7.8	6.6
Married, spouse present	1,176	863	2.9	2.2	1,445	1,266	6.2	5.3
Widowed, divorced, or separated	295	298	6.8	6.4	581	502	7.8	6.3
Single (never married)	1,568	1,479	11.7	10.6	1,155	1,053	11.4	9.7
White, 16 years and over	2,317	2,059	4.5	3.9	2,457	2,118	6.9	5.7
Married, spouse present	949	726	2.6	2.0	1,206	1,083	5.8	5.0
Widowed, divorced, or separated	213	225	6.0	5.9	446	342	7.4	5.3
Single (never married)	1,155	1,109	9.9	9.1	805	693	9.3	7.6
Black and other, 16 years and over	722	580	12.0	9.2	724	702	13.5	12.2
Married, spouse present	227	137	6.6	3.8	239	183	9.8	7.4
Widowed, divorced, or separated	83	73	10.3	8.3	135	159	9.3	10.0
Single (never married)	413	371	23.6	19.9	350	360	23.7	21.1
Total, 20 to 64 years of age	2,207	1,843	4.3	3.6	2,387	2,090	6.7	5.6
Married, spouse present	1,082	802	2.8	2.1	1,335	1,176	6.0	5.1
Widowed, divorced, or separated	280	276	6.8	6.3	525	468	7.7	6.3
Single (never married)	845	764	9.7	8.2	527	446	8.4	6.5
White, 20 to 64 years of age	1,677	1,422	3.7	3.1	1,839	1,568	6.0	4.9
Married, spouse present	871	670	2.5	1.9	1,123	1,000	5.6	4.8
Widowed, divorced, or separated	203	209	6.1	5.9	393	316	7.2	5.4
Single (never married)	604	543	8.1	6.8	323	252	6.2	4.5
Black and other, 20 to 64 years of age	530	420	9.9	7.5	548	522	11.4	10.1
Married, spouse present	211	132	6.3	3.9	210	176	8.9	7.3
Widowed, divorced, or separated	78	67	10.2	8.0	132	152	9.7	10.1
Single (never married)	240	221	19.1	16.2	204	194	18.6	15.3

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
Total	6,221	5,460	6.3	5.4	5.3	4.5	7.8	6.6
White-collar workers	1,983	1,622	4.1	3.3	2.7	2.0	5.4	4.3
Professional and technical	407	399	2.8	2.7	2.1	1.9	3.6	3.6
Managers and administrators, except farm	255	172	2.5	1.7	2.0	1.4	4.1	2.7
Sales workers	280	244	4.7	3.9	4.1	2.6	5.4	5.5
Clerical workers	1,041	808	6.0	4.4	4.4	3.2	6.4	4.7
Blue-collar workers	2,243	2,005	6.8	5.9	6.1	5.4	10.0	8.0
Craft and kindred workers	542	527	4.3	4.0	4.2	3.9	6.8	5.5
Carpenters and other construction craft	254	274	6.6	6.7	6.3	6.6	(1)	(1)
All other	288	253	3.3	2.8	3.2	2.6	5.4	4.8
Operatives, except transport	976	808	8.5	6.7	7.3	5.6	10.4	8.4
Transport equipment operatives	184	150	5.0	4.0	5.1	3.8	4.1	6.0
Nonfarm laborers	540	520	10.5	10.0	10.1	10.1	14.2	10.0
Construction laborers	131	160	13.0	15.2	11.8	14.7	(1)	(1)
All other	409	360	9.9	8.7	9.7	8.8	11.8	8.3
Service workers	1,080	975	8.0	7.0	7.2	6.2	8.4	7.4
Private household	55	68	4.4	5.5	(1)	(1)	4.3	5.2
All other	1,025	908	8.3	7.2	7.2	6.2	9.1	7.8
Farm workers	103	114	3.5	3.7	3.0	2.5	5.3	8.3
No previous work experience	813	744	--	--	--	--	--	--
16 to 19 years	598	528	--	--	--	--	--	--
20 to 24 years	133	131	--	--	--	--	--	--
25 years and over	82	86	--	--	--	--	--	--

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

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

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
Total	100.0	100.0	6.3	5.4	5.3	4.5	7.8	6.6
Nonagricultural private wage and salary workers	72.1	70.9	6.3	5.2	5.3	4.5	7.7	6.2
Mining	.3	.5	2.1	3.0	1.3	3.2	9.5	1.5
Construction	6.5	7.7	9.0	8.6	8.5	8.7	16.0	7.1
Manufacturing	20.9	19.1	6.0	4.6	4.5	3.3	9.2	7.4
Durable goods	10.9	10.2	5.3	4.1	4.3	3.2	8.3	6.8
Lumber and wood products	.8	.6	6.6	4.7	7.1	5.0	(1)	3.1
Furniture and fixtures	.8	.7	10.0	6.6	8.5	5.4	13.8	8.9
Stone, clay, and glass products	.8	.4	7.2	3.1	5.8	2.7	12.2	4.4
Primary metal industries	1.1	1.1	5.5	4.6	4.8	3.8	10.7	10.1
Fabricated metal products	1.4	1.3	5.6	4.5	5.0	3.5	7.5	8.3
Machinery, except electrical equipment	1.5	1.4	3.8	2.8	3.2	2.1	6.4	5.6
Electrical equipment	1.7	2.2	4.9	5.2	2.6	3.4	7.8	7.7
Transportation equipment	1.5	1.4	4.2	3.3	3.6	2.9	7.5	5.1
Automobiles	.4	.7	2.0	3.0	1.9	3.0	3.0	2.9
Other transportation equipment	1.1	.7	7.2	3.7	6.0	2.7	13.6	8.6
Instruments and related products	.4	.4	5.4	4.3	5.0	1.4	5.9	8.4
Other durable goods industries	.8	.7	7.4	5.1	4.2	5.0	11.7	5.2
Nondurable goods	10.0c	9.0	6.9	5.3	4.8	3.5	10.0	7.9
Food and kindred products	3.1	2.2	9.6	5.9	7.2	4.5	15.1	9.1
Textile mill products	1.3	.9	8.2	5.4	8.2	4.1	8.3	6.9
Apparel and other textile products	2.0	2.1	9.0	8.0	8.0	9.1	9.2	7.7
Paper and allied products	.4	.6	3.5	4.6	3.0	2.2	5.1	12.0
Printing and publishing	.9	1.3	4.5	5.0	2.4	2.2	7.8	9.1
Chemicals and allied products	.8	.5	4.4	2.4	2.5	1.3	9.7	5.4
Rubber and plastics products	.9	.5	6.9	4.0	3.8	3.5	12.7	4.6
Other nondurable goods industries	.6	.8	6.1	6.4	4.5	4.9	8.9	8.6
Transportation and public utilities	3.6	3.1	4.3	3.2	4.0	2.9	5.3	4.3
Railroads and railway express	.3	.2	2.9	1.7	2.7	1.6	(1)	(1)
Other transportation	2.4	2.1	6.1	4.4	6.0	4.3	6.8	4.9
Communication and other public utilities	.9	.8	2.6	2.1	1.7	1.2	4.4	3.8
Wholesale and retail trade	21.7	21.7	7.4	6.4	6.1	5.2	9.0	7.8
Finance, insurance, and real estate	2.7	2.6	3.5	2.8	2.6	2.3	4.2	3.1
Service industries	16.5	16.1	6.4	5.2	5.8	4.9	6.8	5.4
Professional services	7.2	7.4	5.0	4.1	3.7	3.9	5.6	4.2
All other service industries	9.3	8.7	8.3	6.6	7.7	5.7	8.8	7.4
Agricultural wage and salary workers	2.2	2.4	8.4	8.0	7.7	5.8	11.1	15.4
All other classes of workers	12.6	13.1	3.2	2.9	2.7	2.4	3.8	3.5
No previous work experience	13.1	13.6	--	--	--	--	--	--

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

c = corrected.

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	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands	6,221	5,460	2,300	1,899	2,440	2,131	1,480	1,431	4,774	4,178	1,447	1,283
Job losers	2,521	2,109	1,384	1,136	896	697	241	275	1,966	1,583	556	526
On layoff	604	460	335	216	217	193	53	51	502	363	102	97
Other job losers	1,917	1,649	1,049	920	679	504	188	224	1,464	1,220	454	429
Job leavers	952	868	339	297	435	382	177	189	786	735	166	133
Reentrants	1,940	1,741	498	396	973	907	469	437	1,454	1,363	486	378
New entrants	807	743	78	70	136	145	592	528	568	497	239	246
Total unemployed, percent distribution	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	40.5	38.6	60.2	59.8	36.7	32.7	16.4	19.3	41.2	37.9	38.4	41.1
On layoff	9.7	8.4	14.6	11.4	8.9	9.0	3.6	3.6	10.5	8.7	7.0	7.6
Other job losers	30.8	30.2	45.6	48.4	27.8	23.7	12.8	15.7	30.7	29.2	31.4	33.5
Job leavers	15.3	15.9	14.8	15.6	17.8	17.9	12.0	13.2	16.5	17.6	11.5	10.4
Reentrants	31.2	31.9	21.7	20.9	39.9	42.6	31.7	30.6	30.5	32.6	33.6	29.4
New entrants	13.0	13.6	3.4	3.7	5.6	6.8	40.0	36.9	11.9	11.9	16.5	19.1
UNEMPLOYMENT RATE												
Total unemployment rate	6.3	5.4	4.3	3.5	6.7	5.5	16.5	15.4	5.5	4.7	12.7	10.6
Job loser rate ¹	2.5	2.1	2.6	2.1	2.5	1.8	2.7	3.0	2.3	1.8	4.9	4.4
Job leaver rate ¹	1.0	.9	.6	.6	1.2	1.0	2.0	2.0	.9	.8	1.5	1.1
Reentrant rate ¹	2.0	1.7	.9	.7	2.7	2.4	5.2	4.7	1.7	1.5	4.3	3.1
New entrant rate ¹ .....	.8	.7	.1	.1	.4	.4	6.6	5.7	.7	.6	2.1	2.0

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

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

[Percent distribution]

Reason, sex, and age	October 1978						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
Total, 16 years and over	5,460	100.0	48.4	30.6	21.0	11.2	9.8
Job losers	2,109	100.0	45.7	27.1	27.2	14.5	12.8
On layoff	460	100.0	68.0	18.7	13.3	8.9	4.3
Other job losers	1,649	100.0	39.4	29.5	31.1	16.0	15.1
Job leavers	868	100.0	51.6	32.8	15.7	9.3	6.3
Reentrants	1,741	100.0	50.3	33.6	16.0	7.2	8.8
New entrants	743	100.0	48.2	30.7	21.1	13.3	7.8
Males, 20 years and over	1,899	100.0	43.9	27.8	28.3	13.2	15.1
Job losers	1,136	100.0	43.4	25.9	30.6	14.9	15.7
On layoff	216	100.0	69.4	18.5	12.0	6.0	6.0
Other job losers	920	100.0	37.4	27.7	34.9	16.8	18.0
Job leavers	297	100.0	49.0	30.7	20.3	10.5	9.8
Reentrants	396	100.0	44.9	30.1	25.0	9.8	15.2
New entrants	70	100.0	(1)	(1)	(1)	(1)	(1)
Females, 20 years and over	2,131	100.0	48.1	31.8	20.1	11.4	8.7
Job losers	697	100.0	43.1	28.9	27.9	16.9	11.0
On layoff	193	100.0	62.0	21.4	16.7	14.1	2.6
Other job losers	504	100.0	36.1	31.7	32.1	18.1	14.1
Job leavers	382	100.0	45.7	36.7	17.6	12.1	5.5
Reentrants	907	100.0	53.2	32.0	14.7	6.7	8.0
New entrants	145	100.0	45.8	31.3	22.9	12.5	10.4
Both sexes, 16 to 19 years	1,431	100.0	54.9	32.4	12.7	8.2	4.4
Job losers	275	100.0	61.1	27.3	11.6	6.5	5.1
On layoff	51	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers	224	100.0	55.4	31.7	12.9	7.6	5.4
Job leavers	189	100.0	66.5	28.8	4.7	2.6	2.1
Reentrants	437	100.0	49.3	40.1	10.6	6.0	4.6
New entrants	528	100.0	51.8	30.2	18.0	13.4	4.5

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

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

Sex, age, and race	October 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	5,460	4,872	25.3	5.3	71.7	31.5	12.6	6.0	1.52
16 to 19 years	1,431	1,351	15.3	2.5	79.9	26.1	11.0	4.4	1.39
20 to 24 years	1,193	1,062	31.5	7.2	67.8	32.8	12.7	5.7	1.58
25 to 34 years	1,255	1,099	30.2	6.6	69.4	37.4	14.7	6.0	1.64
35 to 44 years	643	557	28.0	3.6	69.8	31.8	11.0	7.0	1.51
45 to 54 years	527	461	25.2	6.3	67.5	31.5	14.5	6.9	1.52
55 to 64 years	314	264	29.5	8.3	70.5	30.3	9.5	12.5	1.61
65 years and over	98	79	10.1	3.8	57.0	31.6	17.7	3.8	1.24
Males, 16 years and over	2,640	2,319	26.8	4.9	73.0	29.2	14.7	7.6	1.56
16 to 19 years	741	689	15.4	1.7	82.0	26.0	13.4	4.2	1.43
20 to 24 years	590	513	33.1	9.2	68.4	29.0	15.4	7.0	1.62
25 to 34 years	564	475	34.9	7.2	70.9	35.4	16.8	7.6	1.73
35 to 44 years	257	216	33.3	.9	68.1	27.3	12.5	13.0	1.55
45 to 54 years	254	223	26.5	2.7	70.0	29.1	17.5	10.3	1.56
55 to 64 years	178	150	28.0	7.3	72.7	25.3	8.7	14.0	1.56
65 years and over	56	52	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	2,820	2,553	23.9	5.6	70.5	33.8	10.7	4.5	1.49
16 to 19 years	689	662	15.3	3.3	77.5	26.1	8.6	4.5	1.35
20 to 24 years	603	549	29.9	5.3	67.2	36.2	10.2	4.7	1.54
25 to 34 years	691	624	26.6	6.3	68.3	38.9	13.1	4.6	1.58
35 to 44 years	386	341	24.6	5.3	71.0	34.6	9.7	2.9	1.48
45 to 54 years	273	237	24.1	9.7	65.4	33.3	11.8	3.4	1.48
55 to 64 years	136	114	31.6	9.6	67.5	36.8	10.5	10.5	1.67
65 years and over	41	27	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White	4,178	3,704	21.6	5.3	72.4	32.4	12.6	6.0	1.50
Males	2,059	1,813	23.4	4.6	73.1	29.2	14.0	8.1	1.52
Females	2,118	1,890	19.9	5.9	71.9	35.5	11.2	4.0	1.48
Black and other	1,283	1,169	36.8	5.4	69.2	28.8	12.7	5.9	1.59
Males	580	506	38.7	5.9	72.5	28.9	17.2	5.7	1.69
Females	702	663	35.1	5.0	66.7	28.8	9.2	5.9	1.51

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 the jobsearch methods used, sex, and reason for unemployment

Sex and reason	October 1978								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
Total, 16 years and over	5,460	4,872	25.3	5.3	71.7	31.5	12.6	6.0	1.52
Job losers	2,109	1,652	33.9	7.9	71.9	33.2	14.8	6.3	1.68
Job leavers	868	845	28.5	3.6	75.7	39.5	12.9	3.4	1.64
Reentrants	1,741	1,648	17.8	4.1	67.6	28.7	11.2	8.1	1.38
New entrants	743	727	18.7	4.0	75.9	24.9	10.2	3.6	1.37
Males, 16 years and over	2,640	2,319	26.8	4.9	73.0	29.2	14.7	7.6	1.56
Job losers	1,315	1,059	34.8	7.3	70.8	29.5	15.1	7.6	1.65
Job leavers	386	372	27.7	2.2	76.3	34.4	15.3	4.6	1.60
Reentrants	630	591	16.6	2.9	71.1	27.6	12.9	11.5	1.42
New entrants	309	298	16.8	4.4	79.9	24.2	15.4	4.0	1.45
Females, 16 years and over	2,820	2,553	23.9	5.6	70.5	33.8	10.7	4.5	1.49
Job losers	794	593	32.2	9.1	73.5	40.0	14.2	4.0	1.73
Job leavers	482	473	29.2	4.7	75.3	43.3	11.0	2.5	1.66
Reentrants	1,111	1,059	18.3	4.9	65.5	29.3	10.1	6.2	1.34
New entrants	434	429	20.0	3.5	73.2	25.4	6.5	3.3	1.32

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	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
Total, 16 years and over	6,221	5,460	100.0	100.0	4,710	3,992	100.0	100.0
Less than 5 weeks	2,737	2,644	44.0	48.4	1,906	1,776	40.5	44.5
5 to 14 weeks	1,936	1,669	31.1	30.6	1,428	1,218	30.3	30.5
5 to 10 weeks	1,433	1,354	23.0	24.8	1,031	967	21.9	24.2
11 to 14 weeks	503	315	8.1	5.8	397	251	8.4	6.3
15 weeks and over	1,547	1,147	24.9	21.0	1,376	998	29.2	25.0
15 to 26 weeks	729	612	11.7	11.2	628	511	13.3	12.8
27 weeks and over	818	535	13.1	9.8	748	486	15.9	12.2
27 to 51 weeks	427	243	6.9	4.5	397	216	8.4	5.4
52 weeks and over	390	292	6.3	5.3	350	270	7.4	6.8
Average (mean) duration, in weeks	13.3	11.4	--	--	14.9	13.1	--	--
Median duration, in weeks	6.2	5.3	--	--	7.3	6.1	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
	October 1978										
Total, 16 years and over	5,460	2,644	1,669	612	535	11.4	5.3	44.0	48.4	24.9	21.0
16 to 21 years	1,957	1,059	624	173	101	8.3	4.6	49.8	54.1	15.9	14.0
16 to 19 years	1,431	785	464	118	63	7.7	4.6	51.9	54.9	14.3	12.7
20 to 24 years	1,193	586	395	118	94	10.2	5.2	44.7	49.1	22.1	17.8
25 to 34 years	1,255	592	354	183	126	11.7	5.7	42.3	47.2	26.8	24.7
35 to 44 years	643	321	200	64	57	10.4	5.0	45.5	50.0	26.4	18.9
45 to 54 years	527	197	164	57	109	19.4	8.5	34.0	37.4	35.3	31.5
55 to 64 years	314	126	64	60	65	19.3	8.2	33.3	40.2	40.8	39.6
65 years and over	98	36	29	12	21	17.4	7.2	36.0	37.2	46.3	33.4
Males, 16 years and over	2,640	1,247	751	315	327	12.9	5.6	39.8	47.2	28.5	24.3
16 to 21 years	1,002	540	308	86	67	8.7	4.6	45.8	53.9	18.3	15.3
16 to 19 years	741	413	222	65	40	7.7	4.5	48.2	55.8	17.0	14.2
20 to 24 years	590	283	191	62	54	10.9	5.3	39.9	48.0	23.6	19.6
25 to 34 years	564	255	151	89	68	13.1	6.4	33.4	45.2	34.5	27.9
35 to 44 years	257	124	71	31	31	12.2	5.3	40.3	48.2	32.4	24.1
45 to 54 years	254	79	67	33	74	24.7	11.7	39.1	31.1	34.1	42.4
55 to 64 years	178	71	40	24	43	21.9	8.0	34.6	40.1	42.1	37.6
65 years and over	56	21	8	10	17	21.7	13.7	36.8	(1)	44.6	(1)
Females, 16 years and over	2,820	1,397	919	296	208	10.1	5.1	48.0	49.5	21.4	17.9
16 to 21 years	955	519	316	86	34	7.9	4.6	53.8	54.3	13.5	12.6
16 to 19 years	689	372	242	53	23	7.7	4.6	55.6	54.0	11.5	11.0
20 to 24 years	603	303	204	56	40	9.5	5.0	49.1	50.2	20.7	16.0
25 to 34 years	691	337	202	94	58	10.6	5.2	50.9	48.7	19.4	22.0
35 to 44 years	386	198	129	33	26	9.2	4.9	49.3	51.2	22.0	15.4
45 to 54 years	273	118	97	24	35	14.5	6.3	29.7	43.2	36.3	21.4
55 to 64 years	136	55	24	35	22	15.9	8.6	31.6	40.3	39.2	42.2
65 years and over	41	15	21	1	4	11.4	6.0	(1)	(1)	(1)	(1)
White	4,178	2,090	1,250	468	370	10.8	5.0	45.2	50.0	24.7	20.1
Males	2,059	1,013	571	252	223	12.0	5.2	42.4	49.2	27.5	23.1
Females	2,118	1,077	679	216	147	9.5	4.9	47.8	50.8	22.0	17.1
Black and other	1,283	554	419	144	165	13.7	6.3	40.2	43.2	25.5	24.1
Males	580	234	180	63	104	16.0	6.7	31.5	40.3	31.8	28.8
Females	702	320	240	81	62	11.7	5.8	48.8	45.6	19.4	20.2
Males:											
Married, spouse present	863	389	220	116	138	14.8	6.2	38.8	45.1	32.6	29.5
Widowed, divorced, or separated	298	131	73	39	55	17.8	6.5	34.3	44.1	35.2	31.4
Single (never married)	1,479	726	458	161	134	10.8	5.2	41.6	49.1	24.1	19.9
Females:											
Married, spouse present	1,266	636	385	156	89	10.0	5.0	49.1	50.2	20.3	19.4
Widowed, divorced, or separated	502	227	184	28	62	11.6	5.8	42.9	45.3	28.2	18.0
Single (never married)	1,053	534	349	112	57	9.4	4.9	49.2	50.8	19.3	16.1

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
	October 1978										
OCCUPATION											
White-collar workers	1,622	750	531	195	146	11.4	5.7	42.4	46.2	26.8	21.0
Professional and managerial	571	230	195	71	73	13.4	7.3	37.8	40.3	32.6	25.2
Sales workers	244	133	73	24	14	9.6	4.6	44.1	54.5	28.7	15.5
Clerical workers	808	387	262	101	58	10.6	5.4	44.7	47.9	22.6	19.7
Blue-collar workers	2,005	966	576	220	243	12.5	5.4	43.1	48.2	26.5	23.1
Craft and kindred workers	527	243	157	53	73	14.8	5.6	41.6	46.1	32.5	24.0
Operatives, except transport	808	379	241	96	91	12.0	5.7	45.4	46.9	25.1	23.2
Transport equipment operatives	150	75	33	16	27	13.9	5.1	40.1	49.7	30.3	28.3
Nonfarm laborers	520	269	144	55	52	10.8	4.8	41.6	51.8	21.9	20.6
Service workers	975	497	301	89	88	10.4	4.9	47.3	51.0	19.4	18.2
INDUSTRY¹											
Agriculture	130	82	39	10	--	5.3	4.0	56.0	63.1	11.7	7.2
Construction	455	265	114	30	46	10.9	4.3	41.8	58.3	25.5	16.7
Manufacturing	1,050	452	336	142	121	12.6	6.5	42.3	43.0	29.3	25.0
Durable goods	561	223	174	90	74	14.2	7.2	38.6	39.7	30.8	29.2
Nondurable goods	489	229	161	51	48	10.9	5.7	46.4	46.8	27.7	20.2
Transportation and public utilities	190	88	47	22	33	15.2	5.7	42.3	46.3	29.1	28.8
Wholesale and retail trade	1,198	604	348	143	103	10.6	5.0	46.7	50.5	22.8	20.5
Finance and service industries	1,393	667	472	131	124	10.9	5.4	43.1	47.9	23.9	18.3
Public administration	190	71	62	24	33	16.0	7.5	31.6	37.3	25.0	30.2
No previous work experience	744	359	228	99	58	10.8	5.4	44.9	48.3	24.6	21.1

¹ Includes wage and salary workers only.

A-20. Employed persons by sex and age

[In thousands]

Age and type of industry	Total		Males		Females	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
All industries	92,230	96,095	54,685	56,045	37,545	40,049
16 to 19 years	7,511	7,834	4,076	4,156	3,436	3,678
16 to 17 years	3,070	3,200	1,693	1,673	1,377	1,527
18 to 19 years	4,442	4,634	2,383	2,483	2,059	2,151
20 to 24 years	13,072	13,820	7,132	7,423	5,939	6,397
25 to 54 years	57,594	60,139	34,717	35,569	22,878	24,570
25 to 34 years	23,716	25,194	14,311	14,850	9,405	10,344
35 to 44 years	17,386	18,376	10,459	10,871	6,926	7,505
45 to 54 years	16,493	16,569	9,946	9,848	6,547	6,721
55 to 64 years	11,156	11,332	6,904	6,965	4,252	4,367
55 to 59 years	6,919	7,029	4,242	4,285	2,677	2,744
60 to 64 years	4,237	4,302	2,661	2,680	1,576	1,623
65 years and over	2,897	2,971	1,857	1,932	1,040	1,039
Nonagricultural industries	88,822	92,541	51,960	53,253	36,862	39,288
16 to 19 years	7,147	7,432	3,778	3,826	3,369	3,606
16 to 17 years	2,869	2,986	1,533	1,499	1,336	1,487
18 to 19 years	4,279	4,446	2,245	2,326	2,034	2,120
20 to 24 years	12,651	13,382	6,770	7,072	5,881	6,310
25 to 54 years	55,885	58,380	33,424	34,250	22,459	24,129
25 to 34 years	23,145	24,568	13,873	14,371	9,271	10,197
35 to 44 years	16,872	17,834	10,073	10,473	6,799	7,361
45 to 54 years	15,868	15,977	9,478	9,406	6,390	6,571
55 to 64 years	10,605	10,748	6,453	6,501	4,152	4,247
55 to 59 years	6,592	6,718	3,973	4,047	2,620	2,672
60 to 64 years	4,012	4,029	2,480	2,454	1,532	1,575
65 years and over	2,535	2,601	1,535	1,604	1,000	996
Agriculture	3,408	3,553	2,725	2,792	683	761
16 to 19 years	364	402	298	330	66	71
16 to 17 years	201	214	160	174	41	40
18 to 19 years	163	188	137	157	26	31
20 to 24 years	421	438	363	351	59	87
25 to 54 years	1,710	1,759	1,292	1,319	418	440
25 to 34 years	571	626	438	479	133	147
35 to 44 years	514	542	386	398	127	144
45 to 54 years	625	592	468	442	157	150
55 to 64 years	551	584	451	464	101	120
55 to 59 years	327	311	270	238	57	73
60 to 64 years	224	273	181	226	43	47
65 years and over	362	370	322	328	40	43

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	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
TOTAL	92,230	96,095	50,610	51,889	34,109	36,372	4,076	4,156	3,436	3,678
White-collar workers	46,332	48,038	21,946	22,150	22,032	23,452	658	635	1,696	1,801
Professional and technical	14,251	14,548	8,069	8,192	6,031	6,206	70	71	81	78
Health workers	2,534	2,582	876	923	1,649	1,636	3	3	8	20
Teachers, except college	3,196	3,241	905	905	2,278	2,318	5	3	8	15
Other professional and technical	8,521	8,725	6,288	6,364	2,104	2,252	62	65	65	43
Managers and administrators, except farm	9,981	10,018	7,715	7,653	2,168	2,260	58	46	39	58
Self-employed workers in retail trade	957	812	662	567	291	244	2	--	3	1
Self-employed workers, except retail trade	988	876	836	763	152	113	--	--	--	--
Sales workers	5,727	5,971	2,966	3,101	2,163	2,285	247	212	352	373
Retail trade	3,093	3,171	953	1,023	1,604	1,617	202	184	334	347
Other industries	2,634	2,800	2,013	2,078	558	668	45	28	19	26
Clerical workers	16,373	17,501	3,196	3,204	11,670	12,700	284	306	1,223	1,291
Stenographers, typists, and secretaries	4,686	4,715	75	65	4,241	4,306	7	5	363	339
Other clerical workers	11,687	12,786	3,121	3,139	7,429	8,394	277	301	860	952
Blue-collar workers	30,536	32,165	22,827	23,792	4,987	5,534	2,260	2,343	462	497
Craft and kindred workers	11,969	12,615	10,932	11,364	564	699	430	507	44	46
Carpenters	1,214	1,297	1,113	1,206	7	10	92	78	2	3
Construction craft, except carpenters	2,390	2,529	2,278	2,367	18	30	96	126	--	6
Mechanics and repairers	3,243	3,433	3,072	3,199	52	47	119	186	2	3
Metal craft	1,256	1,293	1,200	1,227	25	40	29	24	1	3
Blue-collar worker supervisors, not elsewhere classified	1,549	1,652	1,382	1,451	155	188	10	10	2	1
All other	2,318	2,410	1,887	1,915	307	384	84	81	39	30
Operatives, except transport	10,459	11,265	5,646	6,109	3,849	4,156	653	689	311	312
Durable goods manufacturing	4,801	5,103	3,011	3,126	1,453	1,612	239	251	99	115
Nondurable goods manufacturing	3,328	3,651	1,205	1,463	1,841	1,923	127	122	155	143
Other industries	2,329	2,510	1,430	1,520	554	621	287	315	57	54
Transport equipment operatives	3,499	3,626	3,056	3,102	257	301	175	198	11	25
Drivers, motor vehicles	2,933	3,125	2,553	2,641	234	286	136	176	10	23
All other	566	501	503	461	22	15	39	23	1	2
Nonfarm laborers	4,609	4,658	3,193	3,217	318	378	1,002	949	96	114
Construction	873	892	693	735	10	22	172	125	--	10
Manufacturing	1,066	1,178	814	870	109	141	132	144	12	23
Other industries	2,669	2,589	1,687	1,612	199	216	697	680	86	81
Service workers	12,485	12,934	3,749	3,825	6,607	6,865	900	911	1,228	1,333
Private household workers	1,191	1,164	23	14	946	943	21	17	200	189
Service workers, except private household	11,294	11,770	3,726	3,811	5,661	5,922	879	894	1,028	1,144
Food service workers	4,179	4,400	735	738	2,151	2,285	570	569	723	809
Protective service workers	1,291	1,373	1,174	1,223	101	113	11	34	5	2
All other	5,824	5,997	1,817	1,850	3,409	3,524	298	291	300	333
Farm workers	2,878	2,959	2,087	2,122	483	521	257	268	50	48
Farmers and farm managers	1,493	1,547	1,373	1,353	112	163	9	27	--	3
Farm laborers and supervisors	1,385	1,412	714	769	371	358	248	240	51	45
Paid workers	1,074	1,083	683	728	161	132	192	188	37	36
Unpaid family workers	311	329	31	41	210	227	56	53	14	9

HOUSEHOLD DATA

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
TOTAL						
Total employed (thousands)	92,230	96,095	54,685	56,045	37,545	40,049
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	50.2	50.0	41.3	40.7	63.2	63.1
Professional and technical	15.5	15.1	14.9	14.7	16.3	15.7
Managers and administrators, except farm	10.8	10.4	14.2	13.7	5.9	5.8
Sales workers	6.2	6.2	5.9	5.9	6.7	6.6
Clerical workers	17.8	18.2	6.4	6.3	34.3	34.9
Blue-collar workers	33.1	33.5	45.9	46.6	14.5	15.1
Craft and kindred workers	13.0	13.1	20.8	21.2	1.6	1.9
Operatives, except transport	11.3	11.7	11.5	12.1	11.1	11.2
Transport equipment operatives	3.8	3.8	5.9	5.9	.7	.8
Nonfarm laborers	5.0	4.8	7.7	7.4	1.1	1.2
Service workers	13.5	13.5	8.5	8.5	20.9	20.5
Private household workers	1.3	1.2	.1	.1	3.1	2.8
Other service workers	12.2	12.2	8.4	8.4	17.8	17.7
Farm workers	3.1	3.1	4.3	4.3	1.4	1.4
Farmers and farm managers	1.6	1.6	2.5	2.5	.3	.4
Farm laborers and supervisors	1.5	1.5	1.8	1.8	1.1	1.0
White						
Total employed (thousands)	82,307	85,297	49,400	50,316	32,907	34,981
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	52.0	51.7	42.8	42.3	65.8	65.3
Professional and technical	15.8	15.6	15.4	15.3	16.5	16.0
Managers and administrators, except farm	11.6	11.1	15.1	14.5	6.3	6.2
Sales workers	6.6	6.7	6.2	6.3	7.3	7.2
Clerical workers	17.9	18.4	6.2	6.1	35.6	35.9
Blue-collar workers	32.7	33.0	45.1	45.9	14.0	14.5
Craft and kindred workers	13.4	13.7	21.3	21.8	1.7	1.9
Operatives, except transport	10.9	11.2	11.2	11.6	10.5	10.6
Transport equipment operatives	3.6	3.6	5.6	5.6	.8	.8
Nonfarm laborers	4.7	4.5	7.0	6.8	1.1	1.2
Service workers	12.1	12.2	7.6	7.6	18.7	18.7
Private household workers	.9	.9	.1	.1	2.2	2.1
Other service workers	11.2	11.3	7.6	7.6	16.5	16.6
Farm workers	3.2	3.1	4.4	4.3	1.4	1.5
Farmers and farm managers	1.8	1.8	2.7	2.7	.3	.5
Farm laborers and supervisors	1.4	1.4	1.7	1.6	1.1	1.0
Black and other						
Total employed (thousands)	9,923	10,798	5,286	5,729	4,638	5,069
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	35.4	36.5	27.3	26.5	44.6	47.8
Professional and technical	12.2	11.9	10.3	10.2	14.4	13.7
Managers and administrators, except farm	4.5	4.9	6.0	6.6	2.7	2.9
Sales workers	2.6	2.7	2.8	2.3	2.3	3.1
Clerical workers	16.2	17.1	8.2	7.3	25.3	28.1
Blue-collar workers	36.6	37.1	53.1	53.3	17.9	18.7
Craft and kindred workers	9.1	8.8	15.8	15.4	1.4	1.4
Operatives, except transport	14.7	16.0	14.5	16.6	15.0	15.3
Transport equipment operatives	5.1	5.0	9.2	8.8	.3	.7
Nonfarm laborers	7.8	7.3	13.7	12.6	1.2	1.4
Service workers	25.7	23.7	16.5	15.8	36.2	32.7
Private household workers	4.4	3.6	.3	.1	9.1	7.6
Other service workers	21.3	20.1	16.2	15.7	27.1	25.1
Farm workers	2.2	2.7	3.0	4.3	1.3	.8
Farmers and farm managers	.3	.4	.5	.7	(1)	.1
Farm laborers and supervisors	2.0	2.3	2.6	3.6	1.3	.7

¹ Less than 0.05 percent.

HOUSEHOLD DATA

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

[In thousands]

Age and sex	October 1978								
	Nonagricultural industries						Agriculture		
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	85,855	1,335	15,514	69,006	6,258	426	1,501	1,699	353
16 to 19 years	7,337	257	490	6,589	82	13	296	45	60
16 to 17 years	2,934	199	156	2,579	41	11	158	14	42
18 to 19 years	4,403	58	334	4,010	41	2	138	32	19
20 to 24 years	13,014	112	1,574	11,328	342	26	303	111	25
25 to 34 years	23,014	172	4,562	18,280	1,467	85	317	255	54
35 to 44 years	16,270	146	3,432	12,691	1,443	121	189	297	57
45 to 54 years	14,553	229	3,159	11,164	1,322	102	165	350	77
55 to 64 years	9,615	246	1,988	7,382	1,082	50	139	381	64
55 to 59 years	6,060	134	1,253	4,673	623	36	75	202	35
60 to 64 years	3,555	112	734	2,709	459	15	64	179	29
65 years and over	2,052	172	309	1,571	520	29	93	261	17
Males, 16 years and over	48,735	169	7,737	40,829	4,486	30	1,187	1,510	95
16 to 19 years	3,763	65	203	3,495	54	9	240	38	53
16 to 17 years	1,462	51	61	1,349	28	9	126	12	35
18 to 19 years	2,301	14	142	2,146	25	--	113	26	18
20 to 24 years	6,832	9	638	6,186	230	10	231	105	15
25 to 34 years	13,365	16	2,245	11,104	1,004	1	247	223	9
35 to 44 years	9,416	5	1,747	7,665	1,056	--	139	257	2
45 to 54 years	8,454	13	1,691	6,750	951	--	126	313	4
55 to 64 years	5,677	26	1,039	4,613	821	2	117	342	4
55 to 59 years	3,565	13	661	2,891	480	1	60	175	3
60 to 64 years	2,112	13	378	1,722	341	1	58	167	1
65 years and over	1,227	35	175	1,017	370	7	88	232	7
Females, 16 years and over	37,120	1,165	7,777	28,177	1,772	396	314	189	258
16 to 19 years	3,574	193	287	3,095	29	4	57	7	8
16 to 17 years	1,472	148	94	1,230	13	2	32	2	6
18 to 19 years	2,102	45	192	1,865	16	2	25	6	1
20 to 24 years	6,182	103	936	5,143	112	16	72	5	9
25 to 34 years	9,649	156	2,317	7,176	464	85	70	32	45
35 to 44 years	6,854	211	1,685	5,027	386	121	50	40	55
45 to 54 years	6,099	146	1,468	4,414	371	102	39	37	73
55 to 64 years	3,938	220	949	2,769	261	48	21	39	60
55 to 59 years	2,495	121	592	1,782	143	34	15	26	31
60 to 64 years	1,443	99	357	987	118	14	6	13	28
65 years and over	825	136	135	554	150	22	5	28	9

A-24. Employed persons by industry and occupation

[In thousands]

Industry	October 1978											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture	3,553	59	39	14	91	34	31	69	256	--	1	2,959
Mining	875	120	81	8	89	218	272	48	28	--	10	--
Construction	6,220	153	726	22	391	3,512	290	207	892	--	28	--
Manufacturing	21,970	2,122	1,482	479	2,578	4,183	8,755	756	1,178	--	437	--
Durable goods	13,172	1,371	882	196	1,484	2,787	5,103	387	707	--	255	--
Nondurable goods	8,799	751	600	283	1,094	1,396	3,651	369	471	--	182	--
Transportation and public utilities	6,189	541	525	43	1,408	1,378	141	1,502	459	--	192	--
Wholesale and retail trade	19,334	382	3,635	3,973	3,562	1,435	979	740	1,138	--	3,491	--
Wholesale trade	3,626	112	754	802	783	321	179	385	257	--	34	--
Retail trade	15,708	270	2,882	3,171	2,779	1,114	799	355	881	--	3,457	--
Finance, insurance, and real estate	5,490	261	997	1,246	2,541	111	6	5	71	--	251	--
Services	27,534	9,978	1,900	180	5,031	1,447	751	240	500	1,164	6,342	--
Private households	1,370	9	--	--	3	6	1	14	125	1,164	45	--
Other service industries	26,164	9,969	1,900	177	5,028	1,441	750	226	375	--	6,297	--
Public administration	4,926	931	632	3	1,809	298	41	58	137	--	1,019	--

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

[In thousands]

Reason not working	All industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
					Paid absences ²		Unpaid absences ²	
	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978	Oct. 1977	Oct. 1978
Total	4,162	4,153	4,078	4,062	2,094	2,087	1,567	1,531
Vacation	1,799	1,876	1,786	1,845	1,331	1,394	327	285
Illness	1,452	1,397	1,411	1,377	590	562	680	709
Bad weather	29	25	21	22	--	--	--	--
Industrial dispute	156	64	156	64	--	--	--	--
All other reasons	726	790	704	754	173	130	560	538
Males	2,501	2,364	2,426	2,296	1,349	1,304	838	736
Vacation	1,122	1,119	1,110	1,097	868	894	157	109
Illness	873	805	836	786	375	346	372	376
All other reasons ³	507	440	479	413	106	65	309	251
Females	1,661	1,789	1,652	1,766	745	783	732	795
Vacation	677	757	675	748	463	500	170	176
Illness	579	592	575	590	215	217	309	333
All other reasons ³	404	440	401	428	67	66	253	286

¹ Excludes private household.³ Includes bad weather and industrial dispute, not shown separately.² Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons.**A-26. Persons at work by type of industry and hours of work**

Hours of work	October 1978					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total at work	91,942	88,479	3,463	100.0	100.0	100.0
1-34 hours	24,752	23,840	913	26.9	26.9	26.4
1-4 hours	822	770	52	.9	.9	1.5
5-14 hours	4,281	4,071	211	4.7	4.6	6.1
15-29 hours	11,575	11,116	459	12.6	12.6	13.3
30-34 hours	8,074	7,883	191	8.8	8.9	5.5
35 hours and over	67,189	64,639	2,550	73.1	73.1	73.6
35-39 hours	6,076	5,933	144	6.6	6.7	4.2
40 hours	35,273	34,777	496	38.4	39.3	14.3
41 hours and over	25,840	23,929	1,910	28.1	27.0	55.2
41 to 48 hours	9,890	9,598	292	10.8	10.8	8.4
49 to 59 hours	8,760	8,332	427	9.5	9.4	12.3
60 hours and over	7,190	5,999	1,191	7.8	6.8	34.4
Average hours, total at work	38.9	38.5	48.4	--	--	--
Average hours, workers on full-time schedules	43.3	42.8	57.2	--	--	--

HOUSEHOLD DATA

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

[Numbers in thousands]

Reason for working less than 35 hours	October 1978					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total	24,752	9,221	15,531	23,840	8,993	14,847
Economic reasons	3,121	1,187	1,934	2,917	1,087	1,830
Slack work	1,309	790	519	1,171	707	464
Material shortages or repairs to plant and equipment	77	77	--	72	72	--
New job started during week	206	206	--	199	199	--
Job terminated during week	114	114	--	109	109	--
Could find only part-time work	1,415	--	1,415	1,366	--	1,366
Other reasons	21,632	8,034	13,598	20,922	7,905	13,017
Does not want, or unavailable for, full-time work	11,592	--	11,592	11,093	--	11,093
Vacation	819	819	--	811	811	--
Illness	1,806	1,647	159	1,758	1,616	142
Bad weather	177	177	--	142	142	--
Industrial dispute	36	36	--	36	36	--
Legal or religious holiday	3,891	3,891	--	3,880	3,880	--
Full time for this job	1,366	--	1,366	1,339	--	1,339
All other reasons	1,945	1,464	481	1,864	1,420	444
Average hours:						
Economic reasons	21.3	23.6	19.9	21.4	23.7	20.0
Other reasons	21.9	27.7	18.4	22.0	27.8	18.4
Worked 30 to 34 hours:						
Economic reasons	879	464	415	826	432	394
Other reasons	7,195	5,111	2,084	7,057	5,066	1,991

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

[Numbers in thousands]

Industry	October 1978								
	Total at work	Full- or part-time status						Average hours, total at work	Average hours, workers on full-time schedules
		On part time for economic reasons	On voluntary part time	On full-time schedules					
Total	40 hours or less			41 to 48 hours	49 hours or more				
Total ¹	88,479	2,917	13,017	72,545	48,616	9,598	14,331	38.5	42.8
Wage and salary workers	82,187	2,637	11,883	67,667	46,544	9,048	12,075	38.2	42.3
Construction	4,845	211	251	4,383	3,064	521	798	40.2	42.1
Manufacturing	20,667	440	653	19,574	13,057	3,284	3,233	41.4	42.5
Durable goods	12,365	146	303	11,916	7,846	2,047	2,023	42.0	42.7
Nondurable goods	8,302	293	350	7,659	5,213	1,236	1,210	40.6	42.2
Transportation and public utilities	5,564	138	432	4,994	3,393	621	980	40.6	43.0
Wholesale and retail trade	16,709	778	4,447	11,484	7,075	1,830	2,579	36.0	43.5
Finance, insurance, and real estate	4,850	78	538	4,234	3,222	432	580	37.9	40.5
Service industries	24,055	937	5,319	17,799	12,874	1,820	3,105	35.6	41.8
Private households	1,286	172	696	418	301	33	84	23.2	43.5
All other industries	22,769	765	4,623	17,381	12,573	1,787	3,021	36.3	41.8
Public administration	4,706	49	228	4,429	3,436	421	572	38.9	40.1
Self-employed workers	5,864	265	959	4,640	1,960	521	2,159	42.9	49.6
Unpaid family workers	426	16	175	235	109	29	97	37.3	50.3

¹ Includes mining not shown separately.

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, race, and marital status	October 1978							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	88,479	2,917	13,017	72,545	48,616	23,929	38.5	42.8
16 to 21 years	12,274	770	4,693	6,811	5,101	1,710	30.4	41.0
16 to 19 years	7,266	471	3,744	3,051	2,329	722	26.7	40.4
16 to 17 years	2,909	127	2,376	406	339	67	18.8	38.2
18 to 19 years	4,357	344	1,369	2,644	1,989	655	32.1	40.7
20 years and over	81,213	2,446	9,273	69,494	46,287	23,207	39.5	42.9
20 to 24 years	12,948	615	1,845	10,488	7,466	3,022	37.4	41.8
25 years and over	68,265	1,830	7,428	59,007	38,820	20,187	40.0	43.0
25 to 44 years	40,867	1,133	3,770	35,964	23,238	12,726	40.5	43.3
45 to 64 years	25,026	614	2,464	21,948	14,855	7,093	40.1	42.8
65 years and over	2,373	82	1,195	1,096	727	369	28.8	42.9
Males, 16 years and over	50,957	1,221	4,049	45,687	27,125	18,562	41.7	44.3
16 to 21 years	6,353	365	2,205	3,783	2,566	1,217	32.4	42.5
16 to 19 years	3,745	228	1,809	1,708	1,186	522	28.5	41.8
16 to 17 years	1,462	67	1,165	230	185	45	19.9	39.6
18 to 19 years	2,284	161	644	1,479	1,002	477	34.0	42.2
20 years and over	47,212	993	2,241	43,978	25,939	18,039	42.8	44.4
20 to 24 years	6,858	275	722	5,861	3,712	2,149	39.7	43.3
25 years and over	40,353	719	1,519	38,115	22,226	15,889	43.3	44.6
25 to 44 years	23,993	443	467	23,083	13,077	10,006	44.1	45.0
45 to 64 years	14,905	222	395	14,288	8,660	5,628	43.3	44.2
65 years and over	1,455	53	657	745	489	256	30.2	42.5
Females, 16 years and over	37,522	1,695	8,968	26,859	21,491	5,368	34.1	40.1
16 to 21 years	5,921	405	2,488	3,028	2,537	491	28.2	39.2
16 to 19 years	3,521	243	1,936	1,342	1,141	201	24.8	38.6
16 to 17 years	1,448	60	1,211	177	155	22	17.6	36.5
18 to 19 years	2,073	183	725	1,165	988	177	29.9	38.9
20 years and over	34,001	1,453	7,032	25,516	20,348	5,168	35.0	40.2
20 to 24 years	6,090	341	1,124	4,625	3,753	872	34.8	39.9
25 years and over	27,911	1,112	5,909	20,890	16,594	4,296	35.1	40.2
25 to 44 years	16,874	690	3,302	12,882	10,162	2,720	35.4	40.2
45 to 64 years	10,120	391	2,068	7,661	6,197	1,464	35.4	40.1
65 years and over	917	30	538	349	237	112	26.5	43.9
RACE								
White	78,506	2,372	11,835	64,299	42,028	22,271	38.7	43.0
Males	45,772	992	3,670	41,110	23,717	17,393	42.0	44.6
Females	32,735	1,380	8,165	23,190	18,312	4,878	34.0	40.2
Black and other	9,973	545	1,183	8,245	6,587	1,658	37.2	40.9
Males	5,185	230	379	4,576	3,408	1,168	39.2	41.9
Females	4,787	315	803	3,669	3,179	490	35.0	39.7
MARITAL STATUS								
Males:								
Married, spouse present	35,533	517	1,204	33,812	19,280	14,532	43.6	44.8
Widowed, divorced, or separated	3,975	131	211	3,633	2,209	1,424	42.4	44.4
Single (never married)	11,449	573	2,634	8,242	5,636	2,606	35.6	42.5
Females:								
Married, spouse present	21,112	822	5,133	15,157	12,253	2,904	34.2	40.0
Widowed, divorced, or separated	7,064	348	1,060	5,656	4,339	1,317	36.6	40.6
Single (never married)	9,346	524	2,775	6,047	4,901	1,146	31.9	40.0

HOUSEHOLD DATA

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

Numbers in thousands

Occupational group and sex	October 1978								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
TOTAL									
White-collar workers	46,030	1,028	6,688	38,314	25,344	4,553	8,417	38.9	42.9
Professional and technical	13,970	266	1,675	12,029	7,805	1,434	2,790	39.4	42.9
Managers and administrators, except farm	9,599	76	346	9,177	4,286	1,319	3,572	46.1	47.3
Sales workers	5,687	225	1,419	4,043	2,413	522	1,108	36.7	44.1
Clerical workers	16,775	461	3,249	13,065	10,842	1,277	946	35.1	39.5
Blue-collar workers	30,609	1,124	2,302	27,183	17,942	4,304	4,937	40.3	42.9
Craft and kindred workers	11,989	326	513	11,150	7,096	1,761	2,293	41.8	43.3
Operatives, except transport	10,745	383	661	9,701	6,785	1,639	1,277	39.9	42.0
Transport equipment operatives	3,454	127	348	2,979	1,554	480	945	42.2	45.9
Nonfarm laborers	4,422	289	781	3,352	2,507	423	422	35.7	41.3
Service workers	12,415	820	4,140	7,455	5,540	799	1,116	32.5	42.0
Private household	1,116	132	596	388	274	27	87	24.2	43.9
Other service workers	11,299	688	3,544	7,067	5,268	771	1,028	33.3	41.9
Males									
White-collar workers	21,906	266	1,440	20,200	10,799	2,748	6,653	43.5	45.6
Professional and technical	7,951	100	518	7,333	4,254	934	2,145	42.4	44.4
Managers and administrators, except farm	7,411	49	141	7,221	3,028	1,061	3,132	47.5	48.2
Sales workers	3,193	55	370	2,768	1,464	372	932	41.9	45.4
Clerical workers	3,351	62	411	2,878	2,052	381	445	38.5	41.8
Blue-collar workers	24,870	820	1,618	22,432	14,199	3,630	4,603	41.1	43.4
Craft and kindred workers	11,270	304	403	10,563	6,658	1,678	2,227	42.0	43.4
Operatives, except transport	6,500	152	341	6,007	3,831	1,106	1,070	41.5	43.2
Transport equipment operatives	3,150	103	209	2,838	1,459	469	910	43.5	46.1
Nonfarm laborers	3,949	261	665	3,023	2,250	377	396	35.9	41.4
Service workers	4,570	172	1,038	3,360	2,272	438	650	36.8	43.6
Private household	31	1	23	7	5	--	2	16.1	41.0
Other service workers	4,538	171	1,015	3,352	2,265	438	649	36.9	43.6
Females									
White-collar workers	24,125	762	5,248	18,115	14,547	1,805	1,763	34.8	40.0
Professional and technical	6,019	166	1,156	4,697	3,552	500	645	35.5	40.5
Managers and administrators, except farm	2,189	28	205	1,956	1,257	259	440	41.5	43.9
Sales workers	2,493	170	1,049	1,274	947	150	177	30.0	41.2
Clerical workers	13,424	399	2,838	10,187	8,790	896	501	34.2	38.8
Blue-collar workers	5,740	304	684	4,752	3,742	675	335	36.8	40.2
Craft and kindred workers	718	22	110	586	437	83	66	37.3	41.2
Operatives, except transport	4,245	230	320	3,695	2,953	534	208	37.6	39.9
Transport equipment operatives	304	23	139	142	98	11	33	29.3	42.2
Nonfarm laborers	472	27	116	329	254	47	28	33.9	40.6
Service workers	7,845	648	3,102	4,095	3,268	361	466	30.0	40.8
Private household	1,084	132	573	379	267	27	85	24.4	43.9
Other service workers	6,761	516	2,529	3,716	3,002	333	381	30.9	40.5

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

[Numbers in thousands]

Employment status	October 1978								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	8,100	4,124	3,976	6,786	3,463	3,323	1,314	661	653
Civilian labor force	1,496	784	712	1,396	727	669	100	57	43
Employed	1,278	651	626	1,229	615	614	49	36	13
Agriculture	144	116	28	141	114	27	3	2	--
Nonagricultural industries	1,134	535	599	1,088	501	587	46	34	12
Unemployed	218	133	86	167	112	55	51	21	30
Unemployment rate	14.6	17.0	12.1	12.0	15.4	8.2	51.0	(1)	(1)
Not in labor force	6,605	3,340	3,264	5,390	2,736	2,654	1,214	604	611
Keeping house	40	7	33	35	6	29	5	1	4
Going to school	6,449	3,263	3,186	5,265	2,674	2,591	1,185	590	595
Unable to work	1	1	--	1	1	--	--	--	--
All other reasons	114	68	46	89	55	34	25	13	12

¹ Percent not shown where base is less than 75,000.**A-32. Employed 14-15 year-olds by sex, class of worker, and occupation**

Characteristics	October 1978					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,278	651	626	100.0	100.0	100.0
Nonagricultural industries	1,134	535	599	88.7	82.2	95.7
Wage and salary workers	1,047	473	574	81.9	72.7	91.7
Private household workers	441	85	356	34.5	13.1	56.9
Government workers	33	20	13	2.6	3.1	2.1
Other wage and salary workers	573	368	204	44.8	56.5	32.6
Self-employed workers	82	59	22	6.4	9.1	3.5
Unpaid family workers	6	3	3	.5	.5	.5
Agriculture	144	116	28	11.3	17.8	4.5
Wage and salary workers	79	63	16	6.2	9.7	2.6
Self-employed workers	21	16	5	1.6	2.5	.8
Unpaid family workers	44	37	7	3.4	5.7	1.1
OCCUPATION						
Total	1,278	651	626	100.0	100.0	100.0
White-collar workers	271	171	100	21.2	26.3	16.0
Professional and technical	6	4	2	.5	.6	.3
Managers and administrators, except farm	--	--	--	--	--	--
Sales workers	217	150	67	17.0	23.0	10.7
Clerical workers	49	17	32	3.8	2.6	5.1
Blue-collar workers	213	192	21	16.7	29.5	3.4
Craft and kindred workers	11	11	--	.9	1.7	--
Operatives, except transport	41	32	9	3.2	4.9	1.4
Transport equipment operatives	15	15	--	1.2	2.3	--
Nonfarm laborers	145	134	11	11.3	20.6	1.8
Service workers	665	184	481	52.0	28.3	76.8
Private household workers	394	39	355	30.8	6.0	56.7
Other service workers	271	145	126	21.2	22.3	20.1
Farm workers	129	104	25	10.1	16.0	4.0
Farmers and farm managers	12	7	5	.9	1.1	.8
Farm laborers and supervisors	117	97	19	9.2	14.9	3.0

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Employment status	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
TOTAL													
Total noninstitutional population ¹	159,334	159,522	159,736	159,937	160,128	160,313	160,504	160,713	160,928	161,148	161,348	161,570	161,829
Armed Forces ¹	2,134	2,132	2,129	2,121	2,124	2,122	2,118	2,113	2,098	2,116	2,122	2,123	2,122
Civilian noninstitutional population ¹	157,201	157,389	157,608	157,816	158,004	158,190	158,386	158,601	158,830	159,032	159,226	159,447	159,707
Civilian labor force	98,071	98,877	98,919	99,107	99,093	99,414	99,784	100,261	100,573	100,618	100,549	100,870	101,062
Percent of civilian population	62.4	62.8	62.8	62.8	62.7	62.8	63.0	63.2	63.3	63.3	63.1	63.3	63.3
Employed	91,383	92,214	92,609	92,881	93,003	93,266	93,801	94,112	94,819	94,425	94,581	94,868	95,192
Percent of total population	57.4	57.8	58.0	58.1	58.1	58.2	58.4	58.6	58.9	58.6	58.6	58.7	58.8
Agriculture	3,243	3,357	3,323	3,354	3,242	3,310	3,275	3,235	3,473	3,387	3,360	3,411	3,380
Nonagricultural industries	88,140	88,857	89,286	89,527	89,761	89,956	90,526	90,877	91,346	91,038	91,221	91,457	91,812
Unemployed	6,688	6,663	6,310	6,226	6,090	6,148	5,983	6,149	5,754	6,193	5,968	6,002	5,870
Unemployment rate	6.8	6.7	6.4	6.3	6.1	6.2	6.0	6.1	5.7	6.2	5.9	6.0	5.8
Not in labor force	59,130	58,512	58,689	58,709	58,911	58,776	58,602	58,340	58,257	58,414	58,677	58,577	58,645
Males, 20 years and over													
Total noninstitutional population ¹	67,852	67,948	68,052	68,148	68,240	68,327	68,419	68,519	68,623	68,729	68,827	68,937	69,081
Civilian noninstitutional population ¹	66,161	66,257	66,364	66,467	66,556	66,645	66,740	66,845	66,947	67,039	67,127	67,236	67,382
Civilian labor force	52,739	52,971	53,122	53,153	53,142	53,242	53,414	53,522	53,591	53,606	53,691	53,787	53,880
Percent of civilian population	79.7	79.9	80.0	80.0	79.8	79.9	79.8	79.9	79.9	79.9	79.9	79.9	79.9
Employed	50,118	50,459	50,688	50,673	50,759	50,833	51,038	51,182	51,433	51,213	51,135	51,229	51,396
Percent of total population	73.9	74.3	74.5	74.4	74.4	74.4	74.6	74.7	75.0	74.5	74.3	74.3	74.4
Agriculture	2,326	2,330	2,346	2,394	2,283	2,289	2,295	2,328	2,437	2,420	2,358	2,422	2,360
Nonagricultural industries	47,792	48,129	48,342	48,279	48,476	48,544	48,743	48,854	48,996	48,793	48,777	48,807	49,036
Unemployed	2,621	2,512	2,434	2,480	2,383	2,409	2,225	2,232	2,089	2,178	2,171	2,158	2,163
Unemployment rate	5.0	4.7	4.6	4.7	4.5	4.5	4.2	4.2	3.9	4.1	4.1	4.0	4.0
Not in labor force	13,422	13,286	13,242	13,314	13,414	13,403	13,477	13,431	13,425	13,648	13,821	13,849	13,823
Females, 20 years and over													
Total noninstitutional population ¹	74,660	74,768	74,883	74,991	75,095	75,196	75,300	75,412	75,527	75,643	75,753	75,873	75,998
Civilian noninstitutional population ¹	74,561	74,669	74,783	74,892	74,996	75,093	75,198	75,310	75,422	75,537	75,645	75,764	75,889
Civilian labor force	35,984	36,451	36,418	36,595	36,654	36,849	37,117	37,264	37,439	37,542	37,661	37,953	37,880
Percent of civilian population	48.3	48.8	48.7	48.9	48.9	49.1	49.4	49.5	49.6	49.7	49.5	50.1	49.9
Employed	33,537	33,923	34,009	34,348	34,569	34,722	34,948	34,931	35,137	35,110	35,192	35,688	35,743
Percent of total population	44.9	45.4	45.4	45.8	46.0	46.2	46.4	46.3	46.5	46.4	46.5	47.0	47.0
Agriculture	525	589	543	517	604	628	623	527	623	587	579	592	588
Nonagricultural industries	33,012	33,334	33,466	33,831	33,965	34,094	34,325	34,404	34,514	34,523	34,613	35,096	35,155
Unemployed	2,447	2,528	2,409	2,247	2,085	2,127	2,169	2,333	2,302	2,432	2,269	2,265	2,137
Unemployment rate	6.8	6.9	6.6	6.1	5.7	5.8	5.8	6.3	6.1	6.5	6.1	6.0	5.6
Not in labor force	38,577	38,218	38,365	38,297	38,342	38,244	38,081	38,046	37,983	37,995	38,184	37,811	38,009
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,822	16,806	16,802	16,798	16,794	16,790	16,785	16,782	16,779	16,776	16,768	16,760	16,750
Civilian noninstitutional population ¹	16,480	16,463	16,460	16,457	16,453	16,452	16,449	16,446	16,461	16,455	16,455	16,446	16,436
Civilian labor force	9,348	9,455	9,379	9,359	9,297	9,323	9,404	9,583	9,612	9,685	9,782	9,530	9,623
Percent of civilian population	56.7	57.4	57.0	56.9	56.5	56.7	57.2	58.3	58.4	58.9	59.4	57.9	58.5
Employed	7,728	7,832	7,912	7,860	7,675	7,711	7,815	7,999	8,249	8,102	8,254	7,951	8,053
Percent of total population	45.9	46.6	47.1	46.8	45.7	45.9	46.6	47.7	49.2	48.3	49.2	47.4	48.1
Agriculture	392	438	434	443	355	393	357	380	413	380	423	397	432
Nonagricultural industries	7,336	7,394	7,478	7,417	7,320	7,318	7,458	7,619	7,836	7,722	7,831	7,554	7,621
Unemployed	1,620	1,623	1,467	1,499	1,622	1,612	1,589	1,584	1,363	1,583	1,528	1,579	1,570
Unemployment rate	17.3	17.2	15.6	16.0	17.4	17.3	16.9	16.5	14.2	16.3	15.6	16.6	16.3
Not in labor force	7,132	7,008	7,081	7,098	7,156	7,129	7,045	6,863	6,849	6,770	6,673	6,916	6,813

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-43 will not necessarily add to totals, because of the independent seasonal adjustment of the various series.

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

[Numbers in thousands]

Full- and part-time employment status	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	83,534	83,908	83,996	84,375	84,449	84,537	84,819	84,972	86,062	86,020	86,012	85,804	86,176
Employed	78,147	78,693	79,058	79,484	79,658	79,818	80,261	80,222	81,551	81,113	81,287	81,071	81,594
Unemployed	5,387	5,215	4,938	4,891	4,791	4,719	4,558	4,750	4,511	4,907	4,725	4,733	4,582
Unemployment rate	6.4	6.2	5.9	5.8	5.7	5.6	5.4	5.6	5.2	5.7	5.5	5.5	5.3
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,665	14,900	14,870	14,762	14,705	14,824	14,974	15,153	14,397	14,650	14,637	15,029	14,989
Employed	13,253	13,470	13,541	13,443	13,446	13,402	13,536	13,755	13,130	13,362	13,382	13,712	13,618
Unemployed	1,412	1,430	1,329	1,319	1,259	1,422	1,438	1,398	1,267	1,288	1,255	1,317	1,371
Unemployment rate	9.6	9.6	8.9	8.9	8.6	9.6	9.6	9.2	8.8	8.8	8.6	8.8	9.1

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

HOUSEHOLD DATA
SEASONALLY ADJUSTED

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

[Numbers in thousands]

Characteristics	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
WHITE													
Total, 16 years and over:													
Civilian labor force	86,812	87,292	87,193	87,425	87,360	87,532	87,945	88,209	88,623	88,521	88,672	88,813	89,119
Employed	81,614	82,181	82,391	82,650	82,697	82,880	83,386	83,590	84,270	83,862	84,042	84,141	84,568
Unemployed	5,198	5,111	4,802	4,775	4,663	4,652	4,559	4,619	4,353	4,659	4,630	4,672	4,551
Unemployment rate	6.0	5.9	5.5	5.5	5.3	5.3	5.2	5.2	4.9	5.3	5.2	5.3	5.1
Males, 20 years and over:													
Civilian labor force	47,278	47,417	47,507	47,440	47,441	47,528	47,555	47,670	47,818	47,727	47,711	47,666	47,813
Employed	45,220	45,452	45,592	45,546	45,599	45,643	45,859	45,942	46,175	46,009	45,994	45,925	46,088
Unemployed	2,058	1,965	1,915	1,894	1,842	1,885	1,696	1,728	1,643	1,718	1,717	1,741	1,725
Unemployment rate	4.4	4.1	4.0	4.0	3.9	4.0	3.6	3.6	3.4	3.6	3.6	3.7	3.6
Females, 20 years and over:													
Civilian labor force	31,162	31,445	31,381	31,612	31,615	31,701	31,985	32,027	32,260	32,348	32,205	32,624	32,703
Employed	29,268	29,536	29,545	29,875	30,021	30,149	30,345	30,307	30,540	30,536	30,486	30,908	31,094
Unemployed	1,894	1,909	1,836	1,737	1,594	1,552	1,640	1,720	1,720	1,812	1,719	1,716	1,609
Unemployment rate	6.1	6.1	5.9	5.5	5.0	4.9	5.1	5.4	5.3	5.6	5.3	5.3	4.9
Both sexes, 16 to 19 years:													
Civilian labor force	8,372	8,430	8,305	8,373	8,304	8,303	8,405	8,512	8,545	8,446	8,756	8,523	8,603
Employed	7,126	7,193	7,254	7,229	7,077	7,088	7,182	7,341	7,555	7,317	7,562	7,308	7,386
Unemployed	1,246	1,237	1,051	1,144	1,227	1,215	1,223	1,171	990	1,129	1,194	1,215	1,217
Unemployment rate	14.9	14.7	12.7	13.7	14.8	14.6	14.6	13.8	11.6	13.4	13.6	14.3	14.1
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	11,398	11,551	11,761	11,725	11,785	11,871	11,816	11,934	11,980	11,997	11,975	12,058	12,078
Employed	9,842	9,966	10,271	10,238	10,391	10,402	10,418	10,467	10,553	10,496	10,578	10,708	10,705
Unemployed	1,556	1,585	1,490	1,487	1,394	1,469	1,398	1,467	1,427	1,501	1,397	1,350	1,373
Unemployment rate	13.7	13.7	12.7	12.7	11.8	12.4	11.8	12.3	11.9	12.5	11.7	11.2	11.4
Males, 20 years and over:													
Civilian labor force	5,522	5,541	5,649	5,678	5,662	5,699	5,673	5,743	5,731	5,684	5,670	5,745	5,794
Employed	4,898	4,935	5,137	5,124	5,173	5,216	5,172	5,238	5,283	5,206	5,161	5,271	5,306
Unemployed	624	556	512	554	489	483	501	505	448	478	509	474	488
Unemployment rate	11.3	10.0	9.1	9.8	8.6	8.5	8.8	8.8	7.8	8.4	9.0	8.3	8.4
Females, 20 years and over:													
Civilian labor force	4,883	4,988	5,065	5,051	5,088	5,145	5,128	5,138	5,187	5,164	5,256	5,292	5,249
Employed	4,328	4,358	4,485	4,503	4,576	4,560	4,589	4,580	4,602	4,566	4,708	4,769	4,719
Unemployed	555	630	580	548	512	585	539	558	585	598	548	523	530
Unemployment rate	11.4	12.6	11.5	10.8	10.1	11.4	10.5	10.9	11.3	11.6	10.4	9.9	10.1
Both sexes, 16 to 19 years:													
Civilian labor force	993	1,022	1,047	996	1,035	1,027	1,015	1,053	1,062	1,149	1,049	1,021	1,035
Employed	616	623	649	611	642	626	657	649	668	724	709	668	680
Unemployed	377	399	398	385	393	401	358	404	394	425	340	353	355
Unemployment rate	38.0	39.0	38.0	38.7	38.0	39.0	35.3	38.4	37.1	37.0	32.4	34.6	34.3

HOUSEHOLD DATA

SEASONALLY ADJUSTED

A-36. Major unemployment indicators, seasonally adjusted

[Unemployment rates]

Selected categories	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
CHARACTERISTICS													
Total (all civilian workers)	6.8	6.7	6.4	6.3	6.1	6.2	6.0	6.1	5.7	6.2	5.9	6.0	5.8
Males, 20 years and over	5.0	4.7	4.6	4.7	4.5	4.5	4.2	4.2	3.9	4.1	4.1	4.0	4.0
Females, 20 years and over	6.8	6.9	6.6	6.1	5.7	5.8	5.8	6.3	6.1	6.5	6.1	6.0	5.6
Both sexes, 16-19 years	17.3	17.2	15.6	16.0	17.4	17.3	16.9	16.5	14.2	16.3	15.6	16.6	16.3
White	6.0	5.9	5.5	5.5	5.3	5.3	5.2	5.2	4.9	5.3	5.2	5.3	5.1
Black and other	13.7	13.7	12.7	12.7	11.8	12.4	11.8	12.3	11.9	12.5	11.7	11.2	11.4
Married men, spouse present	3.6	3.3	3.2	2.9	2.9	3.0	2.8	2.9	2.7	2.7	2.8	2.7	2.7
Married women, spouse present	6.3	6.5	6.2	5.6	5.2	5.1	5.0	5.9	5.6	5.6	5.8	5.6	5.3
Women who head families	9.3	9.3	8.1	7.9	7.6	8.6	10.1	9.3	8.8	10.1	8.2	7.9	7.6
Full-time workers	6.4	6.2	5.9	5.8	5.7	5.6	5.4	5.6	5.2	5.7	5.5	5.5	5.3
Part-time workers	9.6	9.6	8.9	8.9	8.6	9.6	9.6	9.2	8.8	8.8	8.6	8.8	9.1
Unemployed 15 weeks and over ¹	1.9	1.8	1.8	1.7	1.6	1.5	1.4	1.4	1.2	1.3	1.2	1.3	1.4
Labor force time lost ²	7.4	7.3	7.0	6.8	6.6	6.6	6.3	6.6	6.4	6.8	6.6	6.5	6.3
OCCUPATION													
White-collar workers	4.1	4.2	4.0	3.6	3.5	3.4	3.5	3.6	3.5	3.8	3.5	3.5	3.3
Professional and technical	3.0	2.9	2.8	2.7	2.5	2.6	2.5	2.4	2.4	2.5	2.6	2.7	2.9
Managers and administrators, except farm	2.6	3.0	2.5	2.5	1.9	2.3	2.0	2.0	1.8	2.2	1.8	2.2	1.8
Sales workers	5.0	4.9	4.7	3.9	4.3	4.3	4.3	4.4	4.4	4.4	4.2	4.4	4.2
Clerical workers	5.7	5.7	5.5	5.0	5.0	4.5	5.1	5.3	5.0	5.4	5.0	4.7	4.2
Blue-collar workers	8.0	7.6	7.2	7.1	7.1	7.1	6.5	6.6	6.5	6.9	7.0	7.0	6.9
Craft and kindred workers	5.4	5.2	5.2	5.4	5.0	5.1	4.3	4.3	4.2	4.0	4.4	4.7	5.0
Operatives, except transport	9.8	9.3	8.5	7.9	8.1	8.0	7.6	8.4	7.9	8.5	9.0	8.5	7.7
Transport equipment operatives	6.1	5.3	5.6	5.4	5.0	5.2	5.2	5.9	4.6	6.1	5.9	5.2	4.9
Nonfarm laborers	11.8	11.9	10.6	11.0	11.5	11.9	10.0	8.7	9.9	10.6	9.5	10.7	11.3
Service workers	8.1	7.8	7.8	7.6	7.1	7.7	7.7	7.6	7.2	7.5	7.1	7.4	7.1
Farm workers	4.4	4.1	3.9	3.9	4.7	4.7	3.1	3.6	3.0	3.8	3.3	4.0	4.7
INDUSTRY													
Nonagricultural private wage and salary workers ³	6.9	6.7	6.3	6.2	6.1	6.0	5.9	5.9	5.6	6.0	5.9	5.9	5.7
Construction	12.1	11.2	10.8	11.7	11.5	11.3	9.5	9.2	9.3	9.5	9.1	10.7	11.5
Manufacturing	6.8	6.5	5.7	5.6	5.7	5.4	5.3	5.6	5.6	5.6	5.7	5.5	5.3
Durable goods	6.1	6.0	5.6	5.2	5.0	4.8	4.4	5.0	4.8	5.1	5.5	5.0	4.8
Nondurable goods	7.8	7.2	5.9	6.1	6.5	6.2	6.5	6.4	6.7	6.4	5.9	6.3	6.0
Transportation	4.8	4.7	4.9	4.3	3.2	3.7	3.7	3.8	3.7	4.1	3.8	3.6	3.6
Wholesale and retail trade	7.9	7.4	7.3	7.1	7.1	7.3	7.2	6.8	6.3	6.8	6.6	6.8	6.8
Finance and service industries	5.7	6.0	5.5	5.3	5.1	5.1	5.2	5.3	4.7	5.4	5.2	5.1	4.6
Government workers	4.1	4.3	4.3	4.2	3.5	3.7	3.8	4.1	4.0	4.1	3.6	3.8	4.0
Agricultural wage and salary workers	10.3	9.3	9.6	9.0	10.1	10.0	7.7	7.7	8.0	10.1	8.3	8.6	9.8

¹ Unemployment as a percent of 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	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Duration													
Less than 5 weeks	2,804	2,851	2,628	2,700	2,586	2,820	2,790	2,932	2,727	3,025	2,822	2,786	2,709
5 to 14 weeks	2,117	2,037	1,937	1,861	1,820	1,877	1,784	1,803	1,916	1,854	1,988	1,928	1,824
15 weeks and over	1,848	1,829	1,797	1,688	1,568	1,463	1,384	1,358	1,231	1,292	1,215	1,293	1,370
15 to 26 weeks	920	936	941	864	897	766	716	680	651	665	631	687	763
27 weeks and over	928	893	856	824	671	697	668	678	580	627	584	606	607
Average (mean) duration, in weeks	13.8	13.7	13.8	13.1	12.5	12.3	12.3	12.1	12.0	11.8	11.2	11.6	11.8
Median duration, in weeks	7.1	7.0	7.1	6.6	7.0	6.2	5.8	5.2	5.8	5.9	6.0	5.9	6.1
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	41.4	42.4	41.3	43.2	43.3	45.8	46.8	48.1	46.4	49.0	46.8	46.4	45.9
5 to 14 weeks	31.3	30.3	30.4	29.8	30.5	30.5	29.9	29.6	32.6	30.0	33.0	32.1	30.9
15 weeks and over	27.3	27.2	28.2	27.0	26.2	23.8	23.2	22.3	21.0	20.9	20.2	21.5	23.2
15 to 26 weeks	13.6	13.9	14.8	13.8	15.0	12.4	12.0	11.2	11.1	10.8	10.5	11.4	12.9
27 weeks and over	13.7	13.3	13.5	13.2	11.2	11.3	11.2	11.1	9.9	10.2	9.7	10.1	10.3

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

Sex and age	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over	6.8	6.7	6.4	6.3	6.1	6.2	6.0	6.1	5.7	6.2	5.9	6.0	5.8
16 to 19 years	17.3	17.2	15.6	16.0	17.4	17.3	16.9	16.5	14.2	16.3	15.6	16.6	16.3
16 to 17 years	18.8	19.0	17.8	18.2	20.8	20.4	19.9	19.3	16.7	20.1	18.9	19.2	19.0
18 to 19 years	16.2	15.9	13.7	14.5	15.0	15.2	14.4	14.5	12.9	13.6	13.3	14.3	14.2
20 to 24 years	10.4	10.4	10.2	10.5	10.1	10.3	10.0	9.0	9.2	9.9	9.0	9.3	8.7
25 years and over	4.9	4.7	4.4	4.2	3.9	4.0	3.9	4.2	3.9	4.2	4.2	4.0	4.0
25 to 54 years	5.1	4.8	4.6	4.3	4.1	4.2	4.1	4.5	4.1	4.4	4.4	4.2	4.2
55 years and over	4.2	4.1	4.0	3.5	3.3	3.1	3.2	3.2	3.1	3.2	3.0	3.3	3.1
Males, 16 years and over	6.0	5.8	5.5	5.6	5.6	5.6	5.2	5.1	4.7	5.1	5.0	5.1	5.1
16 to 19 years	16.7	16.4	15.3	14.9	17.2	17.1	16.6	15.3	12.6	15.4	14.7	15.8	16.5
16 to 17 years	18.6	18.2	16.7	17.2	21.1	21.0	19.9	18.4	16.1	18.8	17.7	19.1	20.2
18 to 19 years	15.1	15.0	13.9	13.4	14.3	14.3	13.4	12.9	11.3	13.0	12.4	12.6	13.5
20 to 24 years	9.9	9.8	9.8	10.5	10.3	10.1	9.1	7.9	8.1	8.9	8.7	8.6	8.6
25 years and over	4.3	3.8	3.6	3.5	3.4	3.5	3.3	3.5	3.1	3.3	3.4	3.4	3.4
25 to 54 years	4.3	3.9	3.6	3.6	3.4	3.5	3.3	3.6	3.2	3.3	3.5	3.4	3.5
55 years and over	4.1	3.7	3.7	3.2	3.2	3.2	3.3	3.3	3.0	3.4	2.9	3.0	2.9
Females, 16 years and over	8.0	8.1	7.6	7.3	6.9	7.0	7.0	7.5	7.2	7.7	7.2	7.2	6.7
16 to 19 years	18.0	18.1	16.1	17.4	17.7	17.5	17.2	17.9	16.0	17.4	16.7	17.4	16.1
16 to 17 years	19.1	20.1	19.2	19.5	20.4	19.6	19.9	20.3	17.4	21.6	20.3	19.3	17.7
18 to 19 years	17.4	16.8	13.5	15.8	15.7	16.1	15.6	16.1	14.8	14.4	14.4	16.1	15.0
20 to 24 years	11.0	11.1	10.8	10.5	9.8	10.4	11.0	10.3	10.4	11.0	9.2	10.1	8.7
25 years and over	5.8	6.0	5.7	5.2	4.7	4.7	4.8	5.3	5.2	5.6	5.3	5.0	4.9
25 to 54 years	6.2	6.3	6.0	5.5	5.1	5.2	5.2	5.8	5.6	6.0	5.8	5.3	5.3
55 years and over	4.5	4.8	4.4	3.8	3.3	3.0	3.0	3.1	3.1	2.9	3.3	3.9	3.4

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

(Numbers in thousands)

Reason for unemployment	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
NUMBER OF UNEMPLOYED													
Job losers	3,035	2,969	2,748	2,698	2,540	2,493	2,475	2,577	2,340	2,552	2,553	2,397	2,538
On layoff	840	780	687	768	709	660	593	683	606	714	770	719	640
Other job losers	2,195	2,189	2,061	1,930	1,831	1,833	1,882	1,894	1,734	1,838	1,783	1,678	1,898
Job leavers	876	881	877	856	898	862	872	819	849	869	841	852	799
Reentrants	1,906	1,891	1,886	1,821	1,796	1,911	1,734	1,772	1,760	1,883	1,733	1,927	1,710
New entrants	857	901	820	914	868	923	925	901	810	880	893	805	793
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	45.5	44.7	43.4	42.9	41.6	40.3	41.2	42.5	40.6	41.3	42.4	40.1	43.5
On layoff	12.6	11.7	10.9	12.2	11.6	10.7	9.9	11.3	10.5	11.5	12.8	12.0	11.0
Other job losers	32.9	33.0	32.6	30.7	30.0	29.6	31.3	31.2	30.1	29.7	29.6	28.1	32.5
Job leavers	13.1	13.3	13.9	13.6	14.7	13.9	14.5	13.5	14.7	14.1	14.0	14.2	32.5
Reentrants	28.6	28.5	29.8	29.0	29.4	30.9	28.9	29.2	30.6	30.4	28.8	32.2	29.3
New entrants	12.8	13.6	13.0	14.5	14.2	14.9	15.4	14.8	14.1	14.2	14.8	13.5	13.6
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.1	3.0	2.8	2.7	2.6	2.5	2.5	2.6	2.3	2.5	2.5	2.4	2.5
Job leavers .....	.9	.9	.9	.9	.9	.9	.9	.8	.8	.9	.8	.8	.8
Reentrants	1.9	1.9	1.9	1.8	1.8	1.9	1.7	1.8	1.7	1.9	1.7	1.9	1.7
New entrants .....	.9	.9	.8	.9	.9	.9	.9	.9	.8	.9	.9	.8	.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over	91,383	92,214	92,609	92,881	93,003	93,266	93,801	94,112	94,819	94,425	94,581	94,868	95,192
16 to 19 years	7,728	7,832	7,912	7,860	7,675	7,711	7,815	7,999	8,249	8,102	8,254	7,951	8,053
16 to 17 years	3,170	3,215	3,237	3,213	3,133	3,126	3,213	3,313	3,380	3,277	3,405	3,280	3,300
18 to 19 years	4,563	4,610	4,664	4,657	4,585	4,575	4,636	4,678	4,832	4,749	4,839	4,723	4,755
20 to 24 years	13,018	13,055	13,139	13,183	13,201	13,220	13,403	13,473	13,596	13,485	13,597	13,651	13,759
25 years and over	70,691	71,309	71,551	71,914	72,176	72,315	72,561	72,580	72,954	72,855	72,637	73,250	73,446
25 to 54 years	56,831	57,255	57,530	57,910	58,222	58,325	58,477	58,388	58,723	58,742	58,648	59,155	59,342
55 years and over	13,905	14,006	14,039	14,003	13,984	13,984	14,108	14,099	14,268	14,116	14,068	14,088	14,152
Males, 16 years and over	54,341	54,745	55,012	54,975	54,897	55,013	55,208	55,446	55,869	55,534	55,529	55,504	55,701
16 to 19 years	4,223	4,286	4,324	4,302	4,138	4,180	4,170	4,264	4,436	4,321	4,394	4,275	4,305
16 to 17 years	1,767	1,809	1,825	1,788	1,709	1,746	1,727	1,800	1,820	1,753	1,834	1,766	1,747
18 to 19 years	2,455	2,473	2,492	2,514	2,461	2,436	2,483	2,447	2,580	2,519	2,567	2,544	2,555
20 to 24 years	7,139	7,142	7,172	7,135	7,139	7,207	7,324	7,381	7,406	7,304	7,355	7,348	7,427
25 years and over	43,004	43,320	43,530	43,557	43,649	43,611	43,708	43,781	44,024	43,881	43,718	43,872	43,997
25 to 54 years	34,394	34,617	34,828	34,931	34,996	34,982	35,060	35,051	35,162	35,159	35,011	35,192	35,243
55 years and over	8,633	8,698	8,734	8,649	8,637	8,653	8,663	8,702	8,835	8,724	8,709	8,675	8,767
Females, 16 years and over	37,042	37,469	37,597	37,906	38,106	38,253	38,593	38,666	38,950	38,891	39,052	39,364	39,491
16 to 19 years	3,505	3,546	3,588	3,558	3,537	3,531	3,645	3,735	3,813	3,781	3,860	3,676	3,748
16 to 17 years	1,403	1,406	1,412	1,425	1,424	1,380	1,486	1,513	1,560	1,524	1,571	1,514	1,553
18 to 19 years	2,108	2,137	2,172	2,143	2,124	2,139	2,153	2,231	2,252	2,230	2,272	2,179	2,200
20 to 24 years	5,879	5,913	5,967	6,048	6,062	6,013	6,079	6,092	6,190	6,181	6,242	6,303	6,332
25 years and over	27,687	27,989	28,021	28,357	28,527	28,704	28,853	28,799	28,930	28,974	28,919	29,378	29,449
25 to 54 years	22,437	22,638	22,702	22,979	23,226	23,343	23,417	23,337	23,561	23,583	23,637	23,963	24,099
55 years and over	5,272	5,308	5,305	5,354	5,347	5,331	5,445	5,397	5,433	5,392	5,359	5,413	5,385

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

[In thousands]

Sex and age	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Total, 16 years and over	6,688	6,663	6,310	6,226	6,090	6,148	5,983	6,149	5,754	6,193	5,968	6,002	5,870
16 to 19 years	1,620	1,623	1,467	1,499	1,622	1,612	1,589	1,584	1,363	1,583	1,528	1,579	1,570
16 to 17 years	736	756	701	717	821	799	798	792	678	826	795	779	776
18 to 19 years	879	871	740	791	806	817	782	793	718	750	744	785	789
20 to 24 years	1,515	1,519	1,499	1,547	1,477	1,513	1,488	1,332	1,373	1,477	1,338	1,400	1,304
25 years and over	3,641	3,493	3,319	3,155	2,941	2,987	2,933	3,195	2,997	3,201	3,156	3,081	3,068
25 to 54 years	3,037	2,909	2,772	2,632	2,476	2,561	2,490	2,745	2,538	2,692	2,723	2,572	2,621
55 years and over	615	605	585	503	470	449	463	467	449	467	441	487	456
Males, 16 years and over	3,469	3,352	3,213	3,232	3,245	3,271	3,056	3,001	2,728	2,965	2,926	2,961	3,013
16 to 19 years	848	840	779	752	862	862	831	769	639	787	755	803	850
16 to 17 years	404	403	365	371	457	463	429	406	350	406	395	416	441
18 to 19 years	435	438	401	389	410	408	384	364	328	376	362	368	400
20 to 24 years	788	777	775	840	816	812	736	632	657	715	705	692	697
25 years and over	1,929	1,714	1,640	1,601	1,519	1,562	1,491	1,589	1,424	1,492	1,529	1,523	1,545
25 to 54 years	1,556	1,392	1,315	1,297	1,238	1,283	1,196	1,297	1,144	1,189	1,278	1,241	1,276
55 years and over	369	337	339	289	285	284	297	295	275	306	256	269	266
Females, 16 years and over	3,219	3,311	3,097	2,994	2,845	2,877	2,927	3,148	3,026	3,228	3,042	3,041	2,857
16 to 19 years	772	783	688	747	760	750	758	815	724	796	773	776	720
16 to 17 years	332	353	336	346	364	336	369	386	328	420	400	363	335
18 to 19 years	444	433	339	402	396	409	398	429	390	374	382	417	389
20 to 24 years	727	742	724	707	661	701	752	700	716	762	633	708	607
25 years and over	1,712	1,779	1,679	1,554	1,422	1,425	1,442	1,606	1,573	1,709	1,627	1,558	1,523
25 to 54 years	1,481	1,517	1,457	1,335	1,238	1,278	1,294	1,448	1,394	1,503	1,445	1,331	1,345
55 years and over	246	268	246	214	185	165	166	172	174	161	185	218	190

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Selected categories	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
CHARACTERISTICS													
Total, 16 years and over	91,383	92,214	92,609	92,881	93,003	93,266	93,801	94,112	94,819	94,425	94,581	94,868	95,192
Married men, spouse present	38,425	38,531	38,682	38,645	38,666	38,465	38,628	38,626	38,711	38,642	38,467	38,726	38,748
Married women, spouse present	21,119	21,278	21,416	21,638	21,738	21,674	21,847	21,694	21,718	21,766	21,667	22,175	22,132
OCCUPATION													
White-collar workers	46,083	46,251	46,316	46,547	46,555	46,835	46,789	46,895	47,209	47,192	47,236	47,455	47,776
Professional and technical Managers and administrators, except farm	14,042	13,918	13,981	14,057	14,016	14,060	14,158	14,399	14,365	14,239	14,255	14,105	14,333
Sales workers	9,911	9,894	9,939	10,067	10,134	10,169	10,212	9,933	10,107	10,182	10,174	10,056	9,948
Clerical workers	5,718	5,804	5,796	5,913	5,811	5,985	5,861	5,911	5,931	6,017	5,872	5,872	5,959
Blue-collar workers	16,412	16,635	16,600	16,510	16,594	16,621	16,558	16,652	16,806	16,754	16,935	17,422	17,536
Craft and kindred workers	30,247	30,603	30,807	30,942	31,198	31,039	31,655	31,544	31,683	31,225	31,482	31,738	31,863
Operatives, except transport Transport equipment operatives	11,860	12,116	12,153	12,111	12,220	12,169	12,302	12,218	12,467	12,229	12,559	12,640	12,502
Nonfarm laborers	10,320	10,423	10,424	10,755	10,738	10,766	10,974	10,846	11,006	10,841	10,702	10,823	11,120
Service workers	3,457	3,525	3,555	3,432	3,643	3,541	3,560	3,534	3,512	3,452	3,404	3,577	3,583
Farm workers	4,610	4,539	4,675	4,644	4,597	4,563	4,819	4,946	4,698	4,703	4,817	4,698	4,658
Unpaid family workers	12,473	12,590	12,617	12,704	12,703	12,572	12,830	12,883	12,993	12,838	12,884	12,799	12,920
Unpaid family workers	2,755	2,809	2,805	2,872	2,769	2,788	2,687	2,698	2,895	2,802	2,809	2,874	2,833
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,387	1,405	1,405	1,387	1,345	1,389	1,408	1,434	1,482	1,364	1,423	1,442	1,423
Self-employed workers	1,577	1,590	1,605	1,604	1,587	1,527	1,539	1,573	1,669	1,652	1,617	1,655	1,666
Unpaid family workers	305	368	346	342	314	389	283	255	336	348	317	298	323
Nonagricultural industries:													
Wage and salary workers	81,727	82,281	82,692	82,915	83,078	83,124	83,648	84,049	84,513	84,016	84,406	84,842	85,253
Government	15,463	15,415	15,422	15,267	15,237	15,154	15,305	15,203	15,224	15,129	15,282	15,413	15,422
Private industries	66,264	66,866	67,270	67,648	67,841	67,970	68,343	68,846	69,289	68,887	69,124	69,429	69,831
Private households	1,358	1,403	1,436	1,421	1,383	1,293	1,388	1,393	1,368	1,394	1,369	1,370	1,297
Other industries	64,906	65,463	65,834	66,227	66,458	66,677	66,955	67,453	67,921	67,493	67,755	68,059	68,534
Self-employed workers	6,080	6,082	6,182	6,259	6,268	6,427	6,467	6,288	6,198	6,206	6,221	6,200	6,271
Unpaid family workers	460	467	442	439	488	500	506	520	468	496	440	471	442
PERSONS AT WORK¹													
Nonagricultural industries	82,788	83,347	83,662	83,304	84,054	84,285	86,043	85,528	86,051	86,205	86,469	86,310	86,441
Full-time schedules	67,827	68,240	68,574	68,812	69,215	69,417	70,550	70,157	70,861	71,095	71,338	70,939	71,192
Part-time for economic reasons	3,263	3,285	3,220	2,986	3,193	3,164	3,327	3,243	3,458	3,330	3,294	3,231	3,207
Usually work full time	1,237	1,255	1,247	1,043	1,128	1,226	1,224	1,211	1,433	1,385	1,391	1,311	1,171
Usually work part time	2,026	2,030	1,973	1,943	2,065	1,938	2,103	2,032	2,025	1,945	1,903	1,920	2,036
Part time for noneconomic reasons	11,698	11,822	11,868	11,506	11,646	11,704	12,166	12,128	11,732	11,780	11,837	12,140	12,042

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 20 to 39 years of age

[Numbers in thousands]

Employment status	Not seasonally adjusted			Seasonally adjusted					
	Oct. 1977	Sept. 1978	Oct. 1978	Oct. 1977	June 1978	July 1978	Aug. 1978	Sept. 1978	Oct. 1978
VETERANS¹									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	6,819	6,440	6,391	6,819	6,505	6,482	6,461	6,440	6,391
Civilian labor force	6,511	6,101	6,077	6,519	6,191	6,148	6,175	6,103	6,069
Employed	6,126	5,856	5,823	6,053	5,923	5,834	5,786	5,801	5,760
Unemployed	385	245	254	466	268	314	389	302	309
Unemployment rate	5.9	4.0	4.2	7.1	4.3	5.1	6.3	4.9	5.1
20 to 24 years:									
Civilian noninstitutional population ²	1,033	722	676	1,033	768	751	736	722	676
Civilian labor force	917	623	596	920	684	686	671	622	592
Employed	796	566	546	779	620	608	578	557	534
Unemployed	121	57	50	141	64	78	93	65	58
Unemployment rate	13.2	9.1	8.4	15.3	9.4	11.4	13.9	10.5	9.8
25 to 29 years:									
Civilian noninstitutional population ²	2,927	2,256	2,203	2,927	2,377	2,337	2,297	2,256	2,203
Civilian labor force	2,794	2,134	2,089	2,794	2,262	2,185	2,172	2,157	2,090
Employed	2,650	2,010	1,976	2,609	2,143	2,045	2,014	2,000	1,945
Unemployed	144	124	113	185	119	140	158	157	145
Unemployment rate	5.2	5.8	5.4	6.6	5.3	6.4	7.3	7.3	6.9
30 to 34 years:									
Civilian noninstitutional population ²	2,859	3,462	3,512	2,859	3,360	3,394	3,428	3,462	3,512
Civilian labor force	2,800	3,344	3,392	2,805	3,245	3,277	3,332	3,324	3,387
Employed	2,680	3,280	3,301	2,665	3,160	3,181	3,194	3,244	3,281
Unemployed	120	64	91	140	85	96	138	80	106
Unemployment rate	4.3	1.9	2.7	5.0	2.6	2.9	4.1	2.4	3.1
35 to 39 years:									
Civilian noninstitutional population ²	714	1,199	1,263	714	1,104	1,135	1,167	1,199	1,263
Civilian labor force	695	1,157	1,230	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	674	1,122	1,191	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	21	35	39	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	3.0	3.0	3.2	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NONVETERANS									
Total, 20 to 34 years:									
Civilian noninstitutional population ²	17,844	18,654	18,733	17,844	18,459	18,518	18,583	18,654	18,733
Civilian labor force	16,019	16,912	16,936	16,054	16,714	16,753	16,771	16,885	16,936
Employed	15,014	16,058	16,084	14,885	15,789	15,772	15,806	15,909	15,945
Unemployed	1,005	854	852	1,169	925	981	965	976	991
Unemployment rate	6.3	5.0	5.0	7.3	5.5	5.9	5.8	5.8	5.9
20 to 24 years:									
Civilian noninstitutional population ²	8,222	8,426	8,441	8,222	8,398	8,413	8,417	8,426	8,441
Civilian labor force	6,881	7,136	7,152	6,994	7,176	7,111	7,168	7,200	7,258
Employed	6,336	6,608	6,654	6,347	6,611	6,512	6,586	6,608	6,667
Unemployed	545	528	498	647	565	599	582	592	591
Unemployment rate	7.9	7.4	7.0	9.3	7.9	8.4	8.1	8.2	8.1
25 to 29 years:									
Civilian noninstitutional population ²	5,449	6,227	6,295	5,449	6,069	6,116	6,172	6,227	6,295
Civilian labor force	5,149	5,938	5,980	5,089	5,729	5,834	5,845	5,869	5,901
Employed	4,849	5,725	5,737	4,762	5,511	5,579	5,565	5,624	5,636
Unemployed	300	213	243	327	218	255	280	245	265
Unemployment rate	5.8	3.6	4.1	6.4	3.8	4.4	4.8	4.2	4.5
30 to 34 years:									
Civilian noninstitutional population ²	4,173	4,001	3,997	4,173	3,992	3,989	3,994	4,001	3,997
Civilian labor force	3,989	3,838	3,804	3,971	3,809	3,808	3,758	3,816	3,777
Employed	3,829	3,725	3,693	3,776	3,667	3,681	3,655	3,677	3,642
Unemployed	160	113	111	195	142	127	103	139	135
Unemployment rate	4.0	2.9	2.9	4.9	3.7	3.3	2.7	3.6	3.6
35 to 39 years:									
Civilian noninstitutional population ²	3,535	3,645	3,645	3,535	3,605	3,623	3,635	3,645	3,645
Civilian labor force	3,397	3,488	3,508	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Employed	3,294	3,420	3,414	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployed	103	68	94	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Unemployment rate	3.0	1.9	2.7	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

¹ Vietnam-Era veterans are those who served between August 5, 1964, and May 7, 1975. appear in the unadjusted and seasonally adjusted columns.
² Since seasonal variations are not present in the population figures, identical numbers N.A. = not available.

**ESTABLISHMENT DATA
HISTORICAL EMPLOYMENT**

B-1. Employees on nonagricultural payrolls, by industry division 1919 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	
1919	27,078	12,828	1,133	1,036	10,659	14,250	3,711	4,514	-	-	1,096	2,253	2,676	-	-	
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	-	-	
1930	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	533	2,532	
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	1,762	4,664	1,447	3,502	3,995	905	3,090	
1940	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206	
1941	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,250	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	3,174	
1944	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,213	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	6,085	1,675	4,697	5,995	2,254	3,341	
1947	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,484	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	7,609	2,298	6,240	6,914	2,187	4,727	
1956	52,369	21,104	822	3,039	17,243	31,265	4,244	10,858	3,018	7,840	2,389	6,497	7,277	2,209	5,069	
1957	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399	
1958	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648	
1959	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850	
1960	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083	
1961	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315	
1962	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550	
1963	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868	
1964	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248	
1965	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696	
1966	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220	
1967	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672	
1968	67,892	23,732	606	3,350	19,776	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102	
1969	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437	
1970	71,214	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	82,256	24,288	809	3,833	19,647	57,968	4,696	18,492	4,697	13,795	4,452	15,249	15,079	2,727	12,352	
Oct	83,891	24,968	837	4,139	19,992	58,923	4,749	18,799	4,769	14,030	4,503	15,541	15,331	2,714	12,617	
Nov	84,276	24,880	841	4,062	19,977	59,396	4,760	19,088	4,780	14,308	4,521	15,537	15,490	2,716	12,774	
Dec	84,464	24,568	682	3,896	19,990	59,896	4,773	19,568	4,797	14,771	4,533	15,540	15,482	2,724	12,758	
1978:																
Jan	82,724	24,018	669	3,507	19,842	58,706	4,706	18,806	4,768	14,038	4,526	15,316	15,352	2,711	12,641	
Feb	82,962	23,996	668	3,464	19,864	58,966	4,720	18,615	4,780	13,835	4,550	15,482	15,599	2,720	12,879	
Mar	83,897	24,356	686	3,675	19,995	59,541	4,759	18,801	4,815	13,986	4,577	15,678	15,726	2,725	13,001	
Apr	85,075	24,973	858	4,014	20,101	60,102	4,808	19,053	4,843	14,210	4,609	15,866	15,766	2,739	13,027	
May	85,796	25,262	870	4,183	20,209	60,534	4,842	19,267	4,870	14,397	4,642	15,975	15,808	2,756	13,052	
June	86,799	25,839	895	4,462	20,482	60,960	4,920	19,499	4,934	14,565	4,712	16,138	15,691	2,802	12,889	
July	85,925	25,712	900	4,572	20,240	60,213	4,856	19,469	4,930	14,539	4,746	16,213	14,929	2,815	12,114	
Aug	86,134	25,997	902	4,633	20,462	60,137	4,870	19,519	4,930	14,589	4,754	16,235	14,759	2,793	11,966	
Sept p	86,691	26,114	898	4,572	20,644	60,577	4,908	19,627	4,947	14,680	4,726	16,175	15,141	2,744	12,397	
Oct p	87,327	26,152	901	4,605	20,646	61,175	4,936	19,707	4,981	14,726	4,732	16,229	15,571	2,732	12,839	

¹ Data include Alaska and Hawaii beginning 1969. This inclusion has resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1959 benchmark month.

p = preliminary.
c = corrected.

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls, by industry

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	TOTAL	83,452	83,891	86,134	86,691	87,327	-	-	-	-	-
	PRIVATE SECTOR	68,556	68,560	71,375	71,550	71,756	56,236	56,241	58,437	58,614	58,773
	MINING	837	837	902	898	901	638	638	681	679	682
	METAL MINING	80.1	81.7	97.9	96.7	-	57.3	59.2	75.7	74.9	-
10	Iron ores	9.7	9.7	25.7	25.5	-	5.5	5.4	20.9	20.8	-
101	Copper ores	33.6	35.6	34.6	34.3	-	24.6	26.7	26.3	26.2	-
102											
11, 12	COAL MINING	247.1	246.3	243.0	245.8	-	212.0	210.8	201.9	203.9	-
12	BITUMINOUS COAL AND LIGNITE MINING	243.6	242.8	239.9	242.6	-	208.9	207.7	199.2	201.1	-
13	OIL AND GAS EXTRACTION	387.7	387.6	432.4	428.9	-	271.3	270.9	301.0	298.3	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	171.0	170.9	184.0	179.8	-	87.2	87.2	90.8	87.4	-
138	Oil and gas field services	216.7	216.7	248.4	249.1	-	184.1	183.7	210.2	210.9	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	122.3	121.6	128.2	126.3	-	97.8	96.6	102.6	101.6	-
142	Crushed and broken stone	42.7	42.7	45.2	44.7	-	35.7	35.6	38.3	37.8	-
144	Sand and gravel	36.8	36.5	39.5	38.3	-	-	-	-	-	-
147	Chemical and fertilizer minerals	23.6	23.6	23.3	23.4	-	-	-	-	-	-
	CONSTRUCTION	4,157	4,139	4,633	4,572	4,605	3,299	3,285	3,737	3,686	3,715
	GENERAL BUILDING CONTRACTORS	1,190.6	1,179.1	1,312.8	1,287.5	-	938.8	924.7	1,036.9	1,015.0	-
15	Residential building construction	631.4	616.7	706.8	689.3	-	490.6	474.9	549.2	534.9	-
152	Operative builders	80.3	78.6	86.0	84.4	-	56.2	53.9	57.6	56.3	-
153	Nonresidential building construction	478.9	483.8	520.0	513.8	-	392.0	395.9	430.1	423.8	-
154											
16	HEAVY CONSTRUCTION CONTRACTORS	887.9	878.9	1,000.7	988.2	-	702.4	698.8	827.1	817.4	-
161	Highway and street construction	295.2	292.8	351.8	345.4	-	255.0	252.6	308.0	302.3	-
162	Heavy construction, except highway	592.7	586.1	648.9	642.8	-	447.4	446.2	519.1	515.1	-
17	SPECIAL TRADE CONTRACTORS	2,078.6	2,081.3	2,319.3	2,295.9	-	1,657.3	1,661.2	1,872.7	1,853.5	-
171	Plumbing, heating, air conditioning	493.4	496.3	547.5	544.3	-	375.0	377.0	421.5	419.9	-
172	Painting, paper hanging, decorating	137.3	135.9	160.9	154.9	-	115.8	114.8	137.7	131.7	-
173	Electrical work	353.4	355.2	385.1	385.9	-	275.5	276.7	302.4	304.3	-
174	Masonry, stonework, and plastering	331.3	332.0	373.2	369.7	-	285.5	286.8	325.4	322.7	-
175	Carpentering and flooring	128.3	128.8	140.6	137.2	-	100.2	101.5	111.5	108.0	-
176	Roofing and sheet metal work	144.0	148.9	171.4	169.0	-	116.2	121.1	141.9	140.2	-
	MANUFACTURING	20,063	19,992	20,462	20,644	20,646	14,464	14,396	14,673	14,870	14,884
24, 25, 32-39	DURABLE GOODS	11,798	11,794	12,162	12,340	12,402	8,475	8,476	8,684	8,864	8,925
20-23, 26-31	NONDURABLE GOODS	8,265	8,198	8,300	8,304	8,244	5,989	5,920	5,989	6,006	5,959
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	750.0	748.8	773.5	765.4	761.7	642.8	641.1	664.3	656.1	651.6
241	Logging camps and logging contractors	91.0	89.1	94.1	93.6	-	75.7	73.5	77.4	77.2	-
242	Sawmills and planing mills	236.6	235.5	243.1	241.1	-	211.2	210.2	218.1	216.1	-
2421	Sawmills and planing mills, general	197.1	195.9	202.8	200.9	-	176.2	175.1	182.5	180.7	-
2426	Hardwood dimension and flooring	32.8	32.8	33.8	33.6	-	29.1	29.1	29.9	29.5	-
243	Millwork, plywood, and structural members	212.7	213.5	220.2	218.1	-	181.2	181.7	186.8	184.6	-
2431	Millwork	77.2	77.7	79.2	78.3	-	64.1	64.3	65.6	64.7	-
2434	Wood kitchen cabinets	46.9	47.5	49.7	49.2	-	39.6	40.2	41.8	41.0	-
2435	Hardwood veneer and plywood	25.9	25.9	26.3	26.2	-	23.0	23.0	23.5	23.4	-
2436	Softwood veneer and plywood	47.2	47.1	48.4	48.1	-	41.7	41.7	42.4	42.2	-
244	Wooden containers	42.1	41.7	44.1	42.6	-	37.1	36.8	38.9	37.7	-
245	Wood buildings and mobile homes	87.5	87.9	87.2	85.1	-	71.1	71.3	71.6	69.3	-
2451	Mobile homes	60.1	60.2	58.7	58.1	-	50.0	50.0	50.1	49.4	-
249	Miscellaneous wood products	80.1	81.1	84.8	84.9	-	66.5	67.6	71.5	71.2	-
25	FURNITURE AND FIXTURES	473.6	478.0	484.4	487.2	490.0	389.5	393.4	397.7	400.4	403.7
251	Household furniture	322.1	325.3	325.3	327.6	-	273.9	276.7	276.1	278.4	-
2511	Wood household furniture	144.3	145.1	144.3	145.1	-	127.4	128.2	127.6	128.4	-
2512	Upholstered household furniture	99.5	101.1	103.7	104.1	-	83.4	84.6	85.8	86.2	-
2514	Metal household furniture	28.8	29.4	27.9	29.1	-	22.8	23.5	22.2	23.3	-
2515	Mattresses and bedspreads	32.2	32.2	33.0	33.2	-	25.1	25.1	25.9	26.1	-
252	Office furniture	42.3	42.0	45.0	45.3	-	34.1	33.9	36.6	36.8	-
253	Public building and related furniture	23.5	23.9	24.6	25.0	-	17.8	18.2	18.7	19.1	-
254	Partitions and fixtures	60.2	61.0	63.1	63.3	-	46.1	46.8	48.0	48.1	-
259	Miscellaneous furniture and fixtures	25.5	25.8	26.4	26.0	-	17.6	17.8	18.3	18.0	-

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	689.1	685.4	712.5	708.5	711.2	552.1	546.9	567.8	563.5	565.2
321	Flat glass	21.9	21.9	21.3	19.0	—	17.7	17.6	16.8	14.5	—
322	Glass and glassware, pressed or blown	136.6	134.7	138.5	139.2	—	118.8	116.6	118.9	119.8	—
3221	Glass containers	77.0	75.4	79.2	78.4	—	69.4	67.4	70.1	69.5	—
3229	Pressed and blown glass, nec	59.6	59.3	59.3	60.8	—	49.4	49.2	48.8	50.3	—
323	Products of purchased glass	44.2	44.4	47.6	47.5	—	33.6	33.4	34.5	34.2	—
324	Cement, hydraulic	30.9	30.9	32.7	32.0	—	24.6	24.6	26.1	25.4	—
325	Structural clay products	52.5	52.4	52.8	52.0	—	42.4	42.1	41.9	40.9	—
326	Pottery and related products	47.5	47.5	47.5	47.9	—	40.0	40.1	40.1	40.3	—
327	Concrete, gypsum, and plaster products	207.2	206.3	218.1	216.4	—	163.0	161.9	172.3	171.0	—
3271	Concrete block and brick	23.7	23.6	25.3	24.9	—	16.5	16.3	17.9	17.7	—
3272	Concrete products, nec	71.6	71.2	73.4	73.5	—	56.9	56.2	57.7	57.8	—
3273	Ready-mixed concrete	91.4	91.0	97.7	96.6	—	73.1	72.8	78.9	78.0	—
329	Misc. nonmetallic mineral products	135.7	134.6	141.4	141.9	—	101.9	100.5	107.0	107.2	—
3291	Abrasive products	26.6	26.6	28.9	28.5	—	18.8	18.6	19.8	19.5	—
3292	Asbestos products	21.8	21.8	22.5	22.4	—	16.8	16.9	17.3	17.4	—
3296	Mineral wool	28.0	28.2	30.9	30.7	—	—	—	—	—	—
33	PRIMARY METAL INDUSTRIES	1,191.5	1,181.7	1,208.4	1,224.1	1,226.3	930.5	923.4	947.7	964.2	968.9
331	Blast furnace and basic steel products	554.9	545.3	563.6	562.2	—	432.4	424.5	445.4	445.5	—
3312	Blast furnaces and steel mills	471.1	462.5	479.6	478.6	—	368.7	361.7	381.1	381.3	—
3317	Steel pipe and tubes	29.9	29.4	29.7	29.8	—	23.0	22.6	23.0	23.1	—
332	Iron and steel foundries	237.8	236.6	230.6	243.2	—	196.0	194.6	186.2	198.4	—
3321	Gray iron foundries	150.6	150.0	144.7	153.6	—	125.9	125.2	118.7	127.3	—
3322	Malleable iron foundries	23.2	22.9	22.5	23.0	—	19.2	19.0	18.2	18.7	—
3325	Steel foundries, nec	54.1	53.8	54.2	55.5	—	43.4	42.9	43.3	44.5	—
333	Primary nonferrous metals	66.6	65.8	68.3	68.4	—	51.5	51.2	53.4	53.6	—
3334	Primary aluminum	33.0	32.3	34.9	34.7	—	26.7	26.0	28.4	28.2	—
335	Nonferrous rolling and drawing	200.6	197.9	207.1	209.3	—	145.8	143.8	150.9	153.3	—
3351	Copper rolling and drawing	32.6	29.2	33.4	33.1	—	25.4	22.4	25.8	25.7	—
3353	Aluminum sheet, plate, and foil	33.1	33.1	37.1	37.3	—	24.2	24.1	27.5	27.9	—
3357	Nonferrous wire drawing and insulating	81.5	81.7	80.6	82.6	—	60.0	60.4	59.5	61.2	—
336	Nonferrous foundries	88.3	93.1	92.9	95.0	—	72.5	77.2	76.7	78.3	—
3361	Aluminum foundries	47.4	51.7	51.0	51.8	—	39.3	43.6	42.7	43.4	—
34	FABRICATED METAL PRODUCTS	1,604.0	1,614.9	1,651.2	1,674.7	1,687.3	1,217.6	1,227.3	1,250.0	1,271.6	1,287.2
341	Metal cans and shipping containers	79.3	77.5	79.8	79.6	—	67.1	65.3	67.6	66.8	—
3411	Metal cans	65.7	64.3	65.9	65.7	—	56.0	54.6	56.3	55.5	—
342	Cutlery, hand tools, and hardware	179.2	181.1	185.1	187.5	—	138.9	140.9	143.6	145.8	—
3423.5	Hand and edge tools, and hand saws and blades	58.7	58.7	63.4	63.9	—	45.3	45.6	49.7	50.1	—
3429	Hardware, nec	105.0	106.6	105.6	107.4	—	82.2	83.7	82.0	83.7	—
343	Plumbing and heating, except electric	68.9	70.1	69.8	71.2	—	51.3	52.4	51.4	52.9	—
3432	Plumbing fittings and brass goods	25.3	25.5	26.1	26.5	—	20.7	20.8	21.1	21.5	—
3433	Heating equipment, except electric	32.6	33.6	33.4	34.1	—	23.0	23.9	23.3	23.9	—
344	Fabricated structural metal products	489.5	490.2	508.2	510.2	—	349.3	348.8	361.8	363.3	—
3441	Fabricated structural metal	99.9	99.8	102.3	102.6	—	72.0	71.3	73.2	73.9	—
3442	Metal doors, sash, and trim	84.5	85.2	85.8	86.5	—	65.4	66.1	65.1	65.5	—
3443	Fabricated plate work (boiler shops)	141.9	141.7	147.4	146.6	—	93.6	93.1	96.5	95.4	—
3444	Sheet metal work	97.6	98.0	102.5	103.9	—	72.5	72.7	76.7	77.8	—
3446	Architectural metal work	32.0	32.1	33.3	33.6	—	22.7	22.8	24.1	24.5	—
345	Screw machine products, bolts, etc.	100.9	101.9	107.5	108.6	—	79.0	80.1	84.1	85.3	—
3451	Screw machine products	47.3	48.1	51.4	52.1	—	39.0	39.7	42.3	43.1	—
3452	Bolts, nuts, rivets, and washers	53.6	53.8	56.1	56.5	—	40.0	40.4	41.8	42.2	—
346	Metal forgings and stampings	292.1	296.8	290.0	303.1	—	236.4	241.3	232.7	245.3	—
3462	Iron and steel forgings	50.2	50.6	52.6	54.8	—	40.4	40.7	42.1	43.7	—
3465	Automotive stampings	113.3	116.1	106.6	116.5	—	95.6	98.4	88.4	98.1	—
3469	Metal stampings, nec	117.7	119.3	119.6	120.7	—	92.1	93.9	93.6	94.9	—
347	Metal services, nec	93.2	94.5	96.8	97.5	—	77.0	77.9	79.7	80.2	—
3471	Plating and polishing	65.0	66.1	69.0	69.0	—	54.2	55.0	57.5	57.5	—
3479	Metal coating and allied services	28.2	28.4	27.8	28.5	—	22.8	22.9	22.2	22.7	—
348	Ordnance and accessories, nec	58.1	57.2	59.7	59.8	—	40.8	39.9	41.9	41.8	—
3483	Ammunition, exc. for small arms, nec	24.4	23.9	24.8	24.5	—	17.4	16.9	17.5	17.2	—
349	Misc. fabricated metal products	242.8	245.6	254.3	257.2	—	177.8	180.7	187.2	190.2	—
3494	Valves and pipe fittings	96.4	96.9	99.3	100.4	—	64.6	65.1	67.5	68.3	—
3496	Misc. fabricated wire products	48.6	48.8	51.7	52.3	—	37.2	37.6	39.6	40.3	—
35	MACHINERY, EXCEPT ELECTRICAL	2,210.5	2,212.2	2,331.8	2,362.5	2,380.4	1,448.1	1,448.8	1,520.7	1,553.5	1,569.0
351	Engines and turbines	126.5	128.0	132.6	135.3	—	80.7	82.1	85.1	87.8	—
3511	Turbines and turbine generator sets	44.4	44.5	45.3	45.3	—	23.3	23.5	24.2	23.9	—
3519	Internal combustion engines, nec	82.1	83.5	87.3	90.0	—	57.4	58.6	60.9	63.9	—
352	Farm and garden machinery	166.8	165.2	154.3	161.5	—	115.4	113.6	105.1	113.0	—
3523	Farm machinery and equipment	151.3	149.4	139.3	145.8	—	105.1	103.2	95.3	102.2	—
353	Construction and related machinery	361.7	359.3	389.9	393.3	—	241.2	238.8	259.7	263.2	—
3531	Construction machinery	160.5	159.7	172.7	175.1	—	110.3	109.2	117.7	119.9	—

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery	34.6	34.7	35.3	35.7	—	22.1	22.0	22.5	23.0	—
3533	Oil field machinery	71.2	68.1	77.5	77.1	—	48.6	46.3	53.7	53.8	—
3535	Conveyers and conveying equipment	29.8	30.2	32.4	32.4	—	18.0	18.3	19.2	18.9	—
3537	Industrial trucks and tractors	34.3	35.0	39.1	39.3	—	23.5	24.1	27.0	27.3	—
354	Metalworking machinery	327.8	327.0	340.2	344.7	—	238.1	237.0	247.2	251.9	—
3541	Machine tools, metal cutting types	65.7	64.8	70.0	70.5	—	42.0	41.7	45.0	45.8	—
3542	Machine tools, metal forming types	23.0	23.1	23.7	24.2	—	15.1	15.2	15.4	16.0	—
3544	Special dies, tools, jigs, and fixtures	124.0	124.9	126.9	128.1	—	99.2	99.7	101.5	102.9	—
3545	Machine tool accessories	59.8	60.5	63.8	64.3	—	42.6	43.0	45.4	45.9	—
3546	Power driven hand tools	31.9	32.3	31.8	33.4	—	23.7	24.0	23.6	25.0	—
355	Special industry machinery	192.6	191.6	198.2	200.3	—	121.1	120.4	124.0	125.4	—
3551	Food products machinery	44.5	44.4	45.5	46.1	—	27.8	27.6	28.1	28.3	—
3552	Textile machinery	30.9	29.5	30.0	31.2	—	22.1	21.0	21.5	22.0	—
3555	Printing trades machinery	32.7	32.7	36.5	36.7	—	19.2	19.3	21.7	21.7	—
356	General industrial machinery	297.8	297.3	309.8	312.9	—	198.9	199.0	205.6	208.8	—
3561	Pumps and pumping equipment	61.1	61.1	61.1	61.5	—	38.2	38.3	37.6	38.1	—
3562	Ball and roller bearings	56.3	56.4	57.2	58.3	—	42.8	42.9	43.7	44.8	—
3563	Air and gas compressors	28.0	28.0	29.5	29.7	—	16.7	16.7	16.9	17.1	—
3564	Blowers and fans	35.8	35.1	37.2	37.3	—	23.1	22.5	23.8	23.9	—
3566	Speed changers, drives, and gears	24.5	24.4	25.4	25.9	—	17.0	16.9	17.4	17.7	—
3568	Power transmission equipment, nec	22.3	22.5	22.3	22.4	—	16.1	16.3	16.1	16.3	—
357	Office and computing machines	319.5	322.8	356.9	359.6	—	144.3	146.6	161.1	165.5	—
3573	Electronic computing equipment	246.7	250.5	280.3	281.2	—	101.0	103.3	115.6	117.6	—
358	Refrigeration and service machinery	171.4	172.6	184.4	184.9	—	119.6	120.9	129.3	130.0	—
3585	Refrigeration and heating equipment	118.7	119.6	127.7	127.8	—	83.4	84.4	89.8	90.0	—
359	Misc. machinery, except electrical	246.4	248.4	265.5	270.0	—	188.8	190.4	203.6	207.9	—
3592	Carburetors, pistons, rings, valves	36.6	37.0	37.9	39.8	—	28.7	29.3	29.7	31.5	—
3599	Machinery, except electrical, nec	209.8	211.4	227.6	230.2	—	160.1	161.1	173.9	176.4	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	1,901.4	1,909.8	1,972.9	1,993.7	2,002.8	1,253.2	1,260.4	1,288.7	1,308.8	1,314.9
361	Electric distributing equipment	119.8	120.8	121.0	120.7	—	85.7	86.3	86.5	86.6	—
3612	Transformers	54.5	57.1	56.8	57.1	—	38.5	38.7	40.1	40.8	—
3613	Switchgear and switchboard apparatus	65.3	65.7	64.2	63.6	—	47.2	47.6	46.4	45.8	—
362	Electrical industrial apparatus	233.4	234.4	241.7	245.3	—	167.7	168.5	172.7	176.1	—
3621	Motors and generators	126.5	126.8	128.9	131.7	—	95.7	96.1	96.2	98.9	—
3622	Industrial controls	64.3	65.0	67.8	68.4	—	41.6	42.0	44.2	44.7	—
363	Household appliances	184.9	184.7	184.7	183.3	—	144.6	144.6	145.4	144.6	—
3632	Household refrigerators and freezers	44.4	43.6	45.5	43.7	—	34.8	34.0	35.6	34.0	—
3633	Household laundry equipment	22.0	21.3	22.9	22.2	—	17.0	16.3	17.9	17.3	—
3634	Electric housewares and fans	55.1	55.8	52.6	53.6	—	43.3	44.1	42.3	43.4	—
364	Electric lighting and wiring equipment	207.3	208.7	214.7	219.6	—	158.3	129.3	162.4	166.4	—
3641	Electric lamps	38.3	38.1	37.9	38.2	—	33.6	33.4	33.1	33.4	—
3643	Current-carrying wiring devices	83.0	83.5	89.6	91.4	—	59.2	59.4	63.2	64.9	—
3644	Noncurrent-carrying wiring devices	23.8	23.9	22.4	22.9	—	17.6	17.7	16.0	16.5	—
3645	Residential lighting fixtures	23.7	24.2	24.7	25.5	—	18.4	19.0	19.3	19.7	—
365	Radio and TV receiving equipment	130.9	130.6	120.5	124.4	—	97.4	97.3	88.9	92.6	—
3651	Radio and TV receiving sets	103.2	101.5	96.3	98.5	—	75.1	73.6	69.9	72.0	—
366	Communication equipment	465.3	468.9	493.7	497.0	—	227.1	229.3	240.0	243.2	—
3661	Telephone and telegraph apparatus	149.5	150.9	150.4	151.3	—	101.5	102.8	103.6	104.8	—
3662	Radio and TV communication equipment	315.8	318.0	343.3	345.7	—	125.6	126.5	136.4	138.4	—
367	Electronic components and accessories	406.5	407.3	442.0	444.7	—	254.4	256.1	276.6	279.0	—
3671-3	Electronic tubes	41.3	41.0	43.0	43.3	—	26.3	26.4	28.3	28.7	—
3674	Semiconductors and related devices	150.7	150.4	166.4	167.4	—	71.2	71.9	77.5	78.0	—
3679	Electronic components, nec	156.3	157.9	171.2	172.5	—	110.1	111.4	121.5	122.8	—
369	Misc. electrical equipment and supplies	153.3	154.4	154.6	158.7	—	118.0	119.0	116.2	120.3	—
3691	Storage batteries	27.1	27.8	28.0	29.0	—	21.5	22.4	22.0	22.9	—
3694	Engine electrical equipment	76.3	76.3	76.8	79.5	—	61.1	61.1	60.3	63.0	—
37	TRANSPORTATION EQUIPMENT	1,905.4	1,885.4	1,903.4	1,993.4	2,004.2	1,317.4	1,306.3	1,287.0	1,379.3	1,387.7
371	Motor vehicles and equipment	965.1	982.6	920.5	996.4	—	750.3	767.9	695.1	776.1	—
3711	Motor vehicles and car bodies	452.9	465.4	407.9	460.4	—	337.9	351.0	285.2	341.8	—
3713	Truck and bus bodies	49.0	49.4	52.2	53.8	—	39.0	39.2	42.2	43.6	—
3714	Motor vehicle parts and accessories	436.4	440.6	429.0	450.6	—	352.5	356.5	343.1	365.7	—
3715	Truck trailers	26.8	27.2	31.4	31.6	—	20.9	21.2	24.6	25.0	—
372	Aircraft and parts	496.9	464.1	534.9	546.9	—	258.2	231.0	278.0	288.5	—
3721	Aircraft	286.1	254.1	311.9	316.3	—	135.7	108.6	146.8	151.8	—
3724	Aircraft engines and engine parts	122.6	122.3	128.9	133.9	—	67.7	68.0	71.3	75.1	—
3728	Aircraft equipment, nec	88.2	87.7	94.1	96.7	—	54.8	54.4	59.9	61.6	—
373	Ship and boat building and repairing	216.7	226.1	212.7	215.2	—	173.1	180.4	170.8	172.4	—
3731	Ship building and repairing	170.1	179.5	165.5	167.6	—	135.1	142.3	132.2	133.4	—
3732	Boat building and repairing	46.6	46.6	47.2	47.6	—	38.0	38.1	38.6	39.0	—
374	Railroad equipment	59.1	50.0	57.7	58.7	—	43.9	36.6	43.5	44.5	—
376	Guided missiles, space vehicles, parts	81.7	76.1	83.2	83.5	—	25.7	23.9	26.0	26.0	—
3761	Guided missiles and space vehicles	63.3	57.7	63.3	63.6	—	18.0	16.1	17.7	17.7	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^p	Oct. 1978 ^p	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^p	Oct. 1978 ^p
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	67.8	68.4	76.9	76.3	—	51.5	51.8	59.6	59.1	—
3792	Travel trailers and campers	46.1	46.3	51.7	50.6	—	36.4	36.4	41.8	40.8	—
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	620.7	621.7	662.3	661.4	664.3	378.2	379.2	405.4	406.0	411.4
381	Measuring and controlling devices	64.2	64.4	68.3	68.3	—	30.6	30.7	33.4	33.8	—
382	Environmental controls	201.9	201.9	217.9	218.7	—	127.3	127.6	138.4	139.5	—
3822	Process control instruments	48.0	48.1	48.0	48.1	—	33.6	33.4	32.8	33.3	—
3823	Instruments to measure electricity	46.4	46.7	48.1	48.4	—	24.6	24.7	25.3	25.2	—
3825	Optical instruments and lenses	73.1	73.2	85.9	86.0	—	44.8	45.4	55.0	55.1	—
383	Medical instruments and supplies	26.1	26.2	28.1	28.4	—	15.1	15.1	15.6	16.0	—
384	Surgical and medical instruments	129.3	129.4	143.0	143.3	—	86.0	86.5	95.2	95.5	—
3841	Surgical appliances and supplies	51.0	50.6	58.5	58.4	—	33.5	33.7	39.1	38.8	—
3842	Ophthalmic goods	61.5	61.8	66.3	66.8	—	41.4	41.7	44.3	45.0	—
385	Photographic equipment and supplies	41.4	41.7	41.7	42.0	—	30.5	30.9	30.7	31.0	—
386	Watches, clocks, and watchcases	128.2	128.4	133.9	131.4	—	65.5	65.3	69.5	67.6	—
387	Signs and advertising displays	29.6	29.7	29.4	29.3	—	23.2	23.1	22.6	22.6	—
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	451.9	455.7	461.4	469.5	474.1	345.7	349.2	354.2	361.0	365.5
391	Jewelry, precious metal	60.5	62.6	63.0	63.2	—	44.3	46.2	46.9	46.6	—
3911	Musical instruments	38.9	40.4	40.5	40.2	—	27.9	29.1	29.9	29.1	—
393	Toys and sporting goods	23.7	23.5	25.5	25.9	—	19.2	18.8	20.9	21.3	—
394	Dolls, games, toys, and children's vehicles	128.6	127.4	119.6	125.6	—	99.6	98.8	92.9	98.6	—
3942, 4	Sporting and athletic goods, nec	64.8	63.9	59.8	63.7	—	49.6	48.7	46.0	49.2	—
3949	Pens, pencils, office and art supplies	63.8	63.5	59.8	61.9	—	50.0	50.1	46.9	49.4	—
395	Costume jewelry and notions	35.1	35.3	34.8	34.8	—	25.2	25.4	25.1	25.2	—
396	Costume jewelry	62.0	63.8	68.7	70.4	—	50.1	51.7	55.6	57.0	—
3961	Miscellaneous manufactures	33.0	34.3	38.3	39.6	—	27.1	28.3	31.2	32.3	—
399	Signs and advertising displays	142.0	143.1	149.8	149.6	—	107.3	108.3	112.8	112.3	—
3993	Signs and advertising displays	50.5	50.6	53.6	53.5	—	36.0	36.2	38.7	38.7	—
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	1,827.9	1,750.6	1,787.1	1,791.2	1,738.5	1,271.6	1,197.6	1,231.8	1,242.4	1,194.9
201	Meat packing plants	356.3	357.2	361.8	361.2	—	293.8	295.2	299.3	299.3	—
2011	Sausages and other prepared meats	172.0	172.3	171.5	171.2	—	138.6	139.2	138.3	138.2	—
2013	Poultry dressing plants	69.4	69.9	69.7	68.8	—	50.9	51.2	51.1	50.8	—
2016	Dairy products	101.3	101.1	106.8	107.2	—	92.3	92.4	97.7	97.9	—
202	Cheese, natural and processed	191.3	189.2	194.9	192.1	—	100.3	98.5	103.6	101.4	—
2022	Fluid milk	31.2	31.3	32.3	32.1	—	24.4	24.3	25.3	25.2	—
2026	Preserved fruits and vegetables	123.8	122.7	123.6	122.7	—	53.8	52.7	54.1	53.3	—
203	Canned specialties	345.5	257.9	291.5	298.5	—	298.9	212.7	248.0	255.5	—
2032	Canned fruits and vegetables	30.2	28.1	28.2	29.9	—	21.9	19.8	20.0	21.3	—
2033	Frozen fruits and vegetables	188.8	107.7	146.5	147.6	—	170.9	90.6	130.4	131.7	—
2037	Grain mill products	49.7	47.0	37.5	42.6	—	43.3	40.8	32.1	37.4	—
204	Flour and other grain mill products	145.6	145.5	145.4	146.5	—	98.6	99.0	97.8	99.6	—
2041	Prepared feeds, nec	24.5	24.4	24.6	24.7	—	16.2	16.2	15.4	15.5	—
2048	Bakery products	61.4	61.2	62.4	62.2	—	38.1	37.7	39.4	39.6	—
205	Bread, cake, and related products	236.0	235.0	229.2	229.3	—	137.5	136.4	133.9	133.7	—
2051	Cookies and crackers	194.5	194.7	189.2	188.4	—	104.3	104.3	102.2	101.0	—
2052	Sugar and confectionery products	41.5	40.3	40.0	40.9	—	33.2	32.1	31.7	32.7	—
206	Cane and beet sugar	109.6	122.7	104.0	109.9	—	84.2	97.1	78.7	84.7	—
2061-3	Confectionery products	31.6	41.8	28.6	31.7	—	23.4	33.5	20.1	23.3	—
2065	Fats and oils	58.5	61.2	55.3	57.5	—	47.1	49.7	44.1	46.3	—
207	Beverages	40.7	42.5	40.8	39.6	—	29.0	30.6	29.1	28.2	—
208	Malt beverages	233.3	231.4	238.5	234.1	—	109.7	108.5	111.2	109.9	—
2082	Bottled and canned soft drinks	52.0	51.2	51.8	50.1	—	35.3	34.4	35.0	33.5	—
2086	Misc. foods and kindred products	136.6	134.6	143.9	140.5	—	49.5	48.6	52.4	50.6	—
209	Misc. foods and kindred products	169.6	169.2	181.0	180.0	—	119.6	119.6	130.2	130.1	—
TOBACCO MANUFACTURES											
21	Cigarettes	79.3	79.5	74.9	78.2	78.5	64.4	59.6	59.6	63.1	63.9
211	Cigarettes	49.4	49.5	49.6	49.0	—	38.8	38.8	38.3	38.1	—
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	918.7	917.5	910.5	913.7	909.0	799.3	798.5	792.3	796.1	792.9
221	Weaving mills, synthetics	160.7	159.5	151.5	152.0	—	144.7	143.4	136.0	136.5	—
222	Weaving and finishing mills, wool	125.0	124.4	120.2	121.2	—	112.0	111.3	107.3	108.4	—
223	Narrow fabric mills	20.4	20.1	20.7	20.7	—	17.0	16.7	17.3	17.3	—
224	Knitting mills	25.6	25.6	26.0	26.1	—	22.4	22.3	22.6	22.8	—
225	Women's hosiery, except socks	239.5	240.1	246.7	245.4	—	206.8	207.3	213.5	212.6	—
2251	Hosiery, nec	28.2	28.4	29.9	30.2	—	24.8	25.7	26.6	26.9	—
2252	Knit outerwear mills	34.8	25.0	35.9	35.3	—	31.5	31.7	32.5	32.1	—
2253	Knit underwear mills	78.2	79.0	79.7	78.7	—	66.9	67.6	68.4	67.5	—
2254	Knit underwear mills	34.9	35.1	37.9	37.9	—	30.2	30.3	32.6	32.6	—

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^p	Oct. 1978 ^p	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^p	Oct. 1978 ^p
	TEXTILE MILL PRODUCTS—Continued										
2257	Circular knit fabric mills	37.2	36.8	36.8	36.9	—	31.1	30.7	31.0	31.2	—
226	Textile finishing, except wool	81.1	80.1	78.8	79.6	—	68.7	67.7	66.7	67.5	—
2261	Finishing plants, cotton	33.2	32.7	33.3	33.2	—	27.6	27.2	27.9	27.8	—
2262	Finishing plants, synthetics	30.2	30.1	29.0	30.1	—	26.0	25.8	24.7	25.7	—
227	Floor covering mills	60.7	61.4	62.1	63.0	—	48.8	49.7	50.4	51.1	—
228	Yarn and thread mills	133.5	134.2	133.3	134.4	—	121.3	122.4	121.4	122.4	—
2281	Yarn mills, except wool	87.5	87.8	88.7	89.5	—	81.0	81.3	81.9	82.7	—
2282	Throwing and winding mills	21.5	22.2	21.6	21.8	—	19.0	19.8	19.2	19.5	—
229	Miscellaneous textile goods	72.2	72.1	71.2	71.3	—	57.6	57.7	57.1	57.5	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,329.7	1,333.8	1,317.1	1,326.6	1,327.5	1,142.3	1,142.7	1,134.6	1,143.0	1,145.1
231	Men's and boys' suits and coats	90.7	91.0	89.9	89.5	—	79.8	79.7	79.0	78.9	—
232	Men's and boys' furnishings	380.9	379.8	369.3	369.0	—	328.9	328.0	321.0	320.3	—
2321	Men's and boys' shirts and nightwear	106.8	106.1	105.7	105.2	—	92.8	92.1	92.3	91.8	—
2327	Men's and boys' separate trousers	89.0	88.1	84.7	83.9	—	78.5	77.3	74.6	73.9	—
2328	Men's and boys' work clothing	100.6	100.5	92.2	93.4	—	84.7	85.1	78.6	79.8	—
233	Women's and misses' outerwear	424.6	424.8	423.4	427.4	—	367.4	365.0	366.3	369.9	—
2331	Women's and misses' blouses and waists	56.0	56.9	57.9	58.8	—	49.1	49.8	50.8	51.7	—
2335	Women's and misses' dresses	161.2	159.1	157.6	159.0	—	141.9	140.2	139.6	140.6	—
2337	Women's and misses' suits and coats	69.4	67.9	67.3	68.1	—	59.1	57.8	57.8	58.7	—
2339	Women's and misses' outerwear, nec.	138.0	140.9	140.6	141.5	—	117.3	117.2	118.1	118.9	—
234	Women's and children's undergarments	96.5	97.2	93.5	94.6	—	82.7	83.4	79.9	80.7	—
2341	Women's and children's underwear	75.9	76.5	74.3	75.4	—	66.2	66.7	64.7	65.4	—
2342	Brassieres and allied garments	20.6	20.7	19.2	19.2	—	16.5	16.7	15.2	15.3	—
236	Children's outerwear	68.2	68.2	69.1	68.4	—	57.9	57.7	59.0	58.4	—
2361	Children's dresses and blouses	26.2	26.4	24.6	25.0	—	23.4	23.5	22.0	22.4	—
238	Misc. apparel and accessories	62.9	63.4	61.6	61.7	—	54.7	54.9	53.4	53.2	—
239	Misc. fabricated textile products	186.5	189.9	191.5	195.3	—	154.2	157.1	159.7	163.7	—
2391	Curtains and draperies	30.3	31.0	31.0	30.7	—	26.3	27.0	27.2	26.9	—
2392	House furnishings, nec.	51.0	51.5	51.9	52.6	—	41.9	42.4	43.4	44.3	—
2396	Automotive and apparel trimmings	35.5	36.4	35.2	37.8	—	29.6	30.2	29.1	31.6	—
26	PAPER AND ALLIED PRODUCTS	701.1	698.5	705.1	702.7	696.0	527.0	524.0	528.8	528.5	523.1
261, 2, 6	Paper and pulp mills	209.9	206.8	202.0	200.4	—	161.4	158.1	151.3	150.3	—
262	Paper mills, except building paper	179.9	178.4	175.3	173.7	—	137.4	135.7	130.4	129.3	—
263	Paperboard mills	66.1	66.2	66.8	67.1	—	51.8	52.0	52.3	52.7	—
264	Misc. converted paper products	212.1	212.0	218.2	216.5	—	149.5	149.4	156.2	156.2	—
2641	Paper coating and glazing	54.8	54.9	57.5	57.7	—	26.5	26.6	31.3	32.5	—
2642	Envelopes	24.0	24.0	24.3	23.9	—	19.0	18.9	19.0	18.9	—
2643	Bags, except textile bags	48.6	48.4	49.3	49.8	—	38.7	38.6	38.7	39.3	—
265	Paperboard containers and boxes	213.0	213.5	218.1	218.7	—	164.3	164.5	169.0	169.3	—
2651	Folding paperboard boxes	42.0	42.0	42.9	43.1	—	33.3	33.3	34.1	34.3	—
2653	Corrugated and solid fiber boxes	105.8	105.9	109.2	109.6	—	77.9	77.9	81.0	81.2	—
2654	Sanitary food containers	32.6	32.8	33.4	33.0	—	26.9	27.1	27.8	27.4	—
27	PRINTING AND PUBLISHING	1,146.2	1,150.9	1,187.0	1,179.3	1,185.5	648.7	652.3	666.0	658.9	664.4
271	Newspapers	399.0	398.8	410.5	399.5	—	169.4	168.6	166.5	156.8	—
272	Periodicals	75.5	76.0	79.4	79.5	—	15.1	14.9	14.3	14.0	—
273	Books	97.6	97.6	102.0	100.0	—	48.1	48.1	50.9	50.1	—
2731	Book publishing	67.4	67.5	71.5	69.6	—	22.7	22.8	25.2	24.4	—
2732	Book printing	30.2	30.1	30.5	30.4	—	25.4	25.3	25.7	25.7	—
274	Miscellaneous publishing	44.7	44.3	46.0	46.7	—	24.4	23.9	27.7	28.1	—
275	Commercial printing	366.3	370.0	378.7	383.1	—	270.7	275.3	279.4	283.2	—
2751	Commercial printing, letterpress	159.6	161.1	164.6	167.2	—	119.0	120.3	121.6	124.2	—
2752	Commercial printing, lithographic	185.0	186.7	193.5	195.1	—	134.1	136.8	140.8	141.9	—
276	Manifold business forms	42.4	42.5	44.8	45.4	—	30.2	30.3	32.3	32.8	—
278	Blankbooks and bookbinding	58.3	59.1	62.3	62.1	—	48.1	48.3	52.0	51.2	—
279	Printing trade services	38.9	39.2	38.8	39.3	—	29.1	29.1	28.1	28.6	—
28	CHEMICALS AND ALLIED PRODUCTS	1,078.0	1,075.9	1,099.5	1,093.3	1,091.0	617.6	615.3	629.2	626.3	625.5
281	Industrial inorganic chemicals	163.0	163.4	166.6	165.5	—	94.8	94.4	93.7	92.6	—
2819	Industrial inorganic chemicals, nec.	106.3	106.4	110.3	109.7	—	59.0	58.9	60.8	60.4	—
282	Plastics materials and synthetics	213.0	211.9	216.3	214.0	—	141.5	140.8	147.4	145.4	—
2821	Plastics materials and resins	82.8	82.8	85.5	83.8	—	51.2	51.3	53.0	51.4	—
2824	Organic fibers, noncellulosic	95.6	94.8	95.5	95.0	—	67.0	66.2	68.4	68.0	—
283	Drugs	181.1	181.5	186.0	185.4	—	88.7	88.9	88.3	88.0	—
2834	Pharmaceutical preparations	144.5	144.8	148.6	148.3	—	68.0	68.2	67.2	67.2	—
284	Soap, cleaners, and toilet goods	133.3	132.7	137.6	138.8	—	81.3	81.1	84.6	86.3	—
2841	Soap and other detergents	40.6	40.5	40.6	40.8	—	25.8	26.0	25.7	26.2	—
2842, 3	Polishing, sanitation, and finishing preparations	37.0	36.6	37.9	37.7	—	20.3	20.1	21.2	21.3	—
2844	Toilet preparations	55.7	55.6	59.1	60.3	—	35.2	35.0	37.7	38.8	—
285	Paints and allied products	67.3	66.6	71.6	70.5	—	35.4	34.9	38.4	37.3	—
286	Industrial organic chemicals	165.9	165.5	164.7	164.0	—	84.8	84.5	84.7	84.5	—

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	35.5	35.6	35.8	35.5	—	21.5	21.6	22.1	21.9	—
2861,9	Gum, wood, and industrial organic chemicals, nec.	130.4	129.9	128.9	128.5	—	63.3	62.9	62.6	62.6	—
287	Agricultural chemicals	67.2	67.2	67.9	67.7	—	40.9	40.8	41.7	42.6	—
289	Miscellaneous chemical products	87.2	87.1	88.8	87.4	—	50.2	49.9	50.4	49.6	—
29	PETROLEUM AND COAL PRODUCTS	206.7	206.0	214.0	211.6	208.9	135.9	135.8	140.8	139.1	138.4
291	Petroleum refining	160.5	160.2	165.0	163.4	—	101.0	101.3	104.0	102.9	—
295	Paving and roofing materials	34.6	34.3	37.1	36.5	—	27.0	26.7	29.2	28.8	—
30	RUBBER AND MISC. PLASTICS PRODUCTS	727.3	730.8	750.2	756.4	760.9	568.8	572.4	587.3	593.2	598.5
301	Tires and inner tubes	130.8	128.9	126.6	126.3	—	95.4	94.1	92.1	91.7	—
302	Rubber and plastics footwear	23.0	23.0	23.7	23.8	—	19.9	20.0	20.8	20.8	—
303,4	Reclaimed rubber, and rubber and plastics hose and belting	23.9	24.2	22.7	22.5	—	18.3	18.6	17.0	16.7	—
306	Fabricated rubber products, nec.	112.9	112.8	112.7	112.8	—	88.2	87.7	88.3	88.6	—
307	Miscellaneous plastics products	436.7	441.9	464.5	471.0	—	347.0	352.0	369.1	375.4	—
31	LEATHER AND LEATHER PRODUCTS	249.8	254.6	254.2	250.9	248.2	213.5	217.1	218.9	215.3	211.9
311	Leather tanning and finishing	22.2	22.5	22.5	21.4	—	19.1	19.2	19.1	18.1	—
314	Footwear, except rubber	152.7	156.2	158.1	155.6	—	132.4	135.3	138.5	135.8	—
3143	Men's footwear, except athletic	62.0	64.7	62.6	61.3	—	54.9	57.1	55.2	54.1	—
3144	Women's footwear, except athletic	60.8	60.5	63.5	62.9	—	51.6	51.3	55.6	54.7	—
316	Luggage	17.7	17.8	17.8	18.0	—	13.7	13.8	14.0	13.9	—
317	Handbags and personal leather goods	32.9	33.5	31.1	31.0	—	27.5	27.8	26.1	26.1	—
	TRANSPORTATION AND PUBLIC UTILITIES	4,779	4,749	4,870	4,908	4,936	4,067	4,033	4,086	4,116	4,144
40	RAILROAD TRANSPORTATION	553.1	547.9	526.0	523.0	—	—	—	—	—	—
4011	Class I railroads ²	511.0	505.9	482.5	479.5	—	—	—	—	—	—
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	263.4	265.1	223.5	267.2	—	242.9	244.5	203.2	247.6	—
411	Local and suburban transportation	72.3	72.6	71.8	72.6	—	66.5	66.7	66.3	67.1	—
412	Taxicabs	68.6	68.4	66.1	66.2	—	—	—	—	—	—
413	Intercity highway transportation	38.8	37.0	40.0	38.9	—	35.5	33.7	36.9	35.9	—
415	School buses	71.5	74.9	31.8	75.3	—	—	—	—	—	—
42	TRUCKING AND WAREHOUSING	1,251.5	1,240.1	1,282.4	1,290.5	—	1,109.1	1,098.4	1,136.7	1,143.5	—
421,3	Trucking and trucking terminals	1,168.8	1,154.0	1,197.0	1,205.1	—	1,037.9	1,024.1	1,062.8	1,069.8	—
422	Public warehousing	82.7	86.1	85.4	85.4	—	71.2	74.3	73.9	73.7	—
44	WATER TRANSPORTATION	208.1	195.8	207.5	207.3	—	—	—	—	—	—
45	TRANSPORTATION BY AIR	388.1	386.8	396.1	396.9	—	—	—	—	—	—
451,2	Air transportation	347.1	345.2	351.6	352.5	—	—	—	—	—	—
46	PIPE LINES, EXCEPT NATURAL GAS	19.1	18.8	19.9	19.0	—	14.0	13.7	14.5	13.7	—
47	TRANSPORTATION SERVICES	158.9	158.5	170.5	171.8	—	—	—	—	—	—
48	COMMUNICATION	1,188.3	1,188.8	1,252.3	1,250.7	—	906.0	905.8	949.3	945.3	—
481	Telephone communication	960.4	960.1	1,008.7	1,006.3	—	721.3	720.5	751.3	746.8	—
483	Radio and television broadcasting	169.7	169.9	179.0	179.6	—	133.4	133.7	141.4	142.1	—
49	ELECTRIC, GAS, AND SANITARY SERVICES	748.1	747.0	791.8	781.5	—	618.0	615.7	648.6	638.5	—
491	Electric services	339.8	340.0	362.7	359.5	—	277.4	276.8	293.4	290.2	—
492	Gas production and distribution	156.0	154.8	164.8	161.5	—	127.9	126.5	135.4	132.4	—
493	Combination utility services	188.6	188.4	193.7	190.2	—	157.4	156.9	158.9	155.2	—
496	Sanitary services	40.7	41.0	44.9	45.2	—	36.3	36.6	39.5	39.9	—
—	WHOLESALE AND RETAIL TRADE	18,756	18,799	19,519	19,627	19,707	16,524	16,569	17,202	17,299	17,374
50,51	WHOLESALE TRADE	4,750	4,769	4,930	4,947	4,981	3,916	3,931	4,070	4,083	4,118
50	WHOLESALE TRADE - DURABLE GOODS	2,735	2,745	2,884	2,886	—	2,254	2,262	2,377	2,375	—
501	Motor vehicles and automotive equipment	400.4	402.8	422.9	423.9	—	329.2	330.6	348.1	347.9	—
502	Furniture and home furnishing	95.3	95.8	99.1	99.8	—	77.3	78.3	80.2	80.5	—
503	Lumber and construction materials	168.8	169.1	178.8	177.4	—	140.7	140.9	150.1	148.5	—
504	Sporting goods, toys, and hobby goods	61.8	62.6	62.0	62.0	—	51.3	52.1	51.7	51.7	—
506	Metals and minerals, except petroleum	132.8	131.5	140.1	139.8	—	108.1	106.8	113.7	113.6	—
506	Electrical goods	374.6	377.7	398.4	401.3	—	310.1	312.6	328.6	330.7	—
507	Hardware, plumbing, and heating equipment	222.7	222.8	235.0	234.8	—	185.1	185.7	195.5	194.9	—

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,090.6	1,093.8	1,154.5	1,152.8	—	895.5	898.0	947.2	944.6	—
509	Miscellaneous durable goods	187.7	188.4	192.7	193.9	—	156.7	157.2	161.9	163.0	—
51	WHOLESALE TRADE-NONDURABLE GOODS	2,015	2,024	2,046	2,061	—	1,662	1,669	1,693	1,708	—
511	Paper and paper products	127.9	128.2	132.6	132.9	—	104.8	104.7	107.5	107.9	—
512	Drugs, proprietaries, and sundries	131.3	133.1	136.2	137.8	—	111.9	113.7	116.4	117.6	—
513	Apparel, piece goods, and notions	156.5	158.2	159.6	159.8	—	123.9	125.1	127.0	127.2	—
514	Groceries and related products	628.2	620.4	618.7	627.7	—	542.3	534.9	539.9	548.9	—
516	Chemical and allied products	114.4	115.1	118.5	116.6	—	80.3	80.8	84.9	83.8	—
517	Petroleum and petroleum products	227.8	226.4	227.8	225.9	—	178.6	177.1	174.4	171.9	—
518	Beer, wine, and distilled beverages	125.4	125.7	133.8	132.7	—	106.2	106.4	114.0	112.8	—
519	Miscellaneous nondurable goods	350.8	354.3	365.3	366.3	—	288.8	292.6	302.7	304.0	—
52-59	RETAIL TRADE	14,006	14,030	14,589	14,680	14,726	12,608	12,638	13,132	13,216	13,256
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	585.9	574.1	600.6	595.6	—	499.2	489.2	514.1	509.4	—
521	Lumber and other building materials	310.0	309.4	326.9	322.5	—	265.7	265.2	282.5	278.1	—
525	Hardware stores	137.9	138.9	142.5	141.5	—	118.6	119.7	121.6	120.8	—
53	GENERAL MERCHANDISE STORES	2,185.4	2,245.6	2,274.4	2,297.3	—	2,017.9	2,076.8	2,117.7	2,139.5	—
531	Department stores	1,768.8	1,828.1	1,839.7	1,857.4	—	1,642.1	1,699.6	1,724.4	1,741.9	—
533	Variety stores	281.8	282.3	287.6	292.1	—	262.0	262.5	267.6	271.1	—
539	Misc. general merchandise stores	134.8	135.2	147.1	147.8	—	113.8	114.7	125.7	126.5	—
54	FOOD STORES	2,130.3	2,140.6	2,192.4	2,202.4	—	1,963.2	1,974.7	2,022.0	2,031.7	—
541	Grocery stores	1,866.9	1,875.8	1,935.1	1,940.2	—	1,724.2	1,734.4	1,788.3	1,793.0	—
542	Meat markets and freezer provisioners	49.4	49.3	45.5	45.2	—	—	—	—	—	—
546	Retail bakeries	116.2	115.8	114.5	117.3	—	106.7	106.3	104.8	107.7	—
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,813.3	1,817.1	1,875.1	1,872.8	—	1,565.5	1,569.0	1,609.6	1,611.0	—
551.2	New and used car dealers	852.7	859.3	891.1	890.5	—	713.2	719.1	744.8	744.9	—
553	Auto and home supply stores	243.3	244.8	254.9	255.6	—	213.6	216.0	222.4	223.7	—
554	Gasoline service stations	641.1	638.0	649.4	648.7	—	575.1	571.4	574.6	576.1	—
56	APPAREL AND ACCESSORY STORES	853.5	870.8	858.3	869.2	—	739.8	755.3	741.6	750.1	—
561	Men's and boys' clothing and furnishings	133.8	137.1	137.2	135.4	—	113.5	116.7	117.1	115.5	—
562	Women's ready-to-wear stores	317.2	323.7	314.8	321.1	—	276.3	282.2	273.9	278.7	—
565	Family clothing stores	152.0	155.1	157.1	157.4	—	134.9	137.7	139.6	139.2	—
566	Shoe stores	164.9	167.3	166.5	171.3	—	139.4	141.4	138.6	143.2	—
57	FURNITURE AND HOME FURNISHINGS										
	STORES	567.6	575.6	586.6	591.3	—	473.7	481.9	486.0	489.6	—
571	Furniture and home furnishings	347.6	352.7	354.4	356.7	—	294.6	299.2	298.1	299.9	—
572	Household appliance stores	83.4	85.2	87.8	88.7	—	71.4	73.2	74.6	75.4	—
573	Radio, television, and music stores	136.6	137.7	144.4	145.9	—	107.7	109.5	113.3	114.3	—
58	EATING AND DRINKING PLACES	4,155.3	4,053.2	4,457.5	4,474.4	—	3,848.6	3,752.5	4,109.3	4,119.5	—
59	MISCELLANEOUS RETAIL	1,714.4	1,752.9	1,744.0	1,777.2	—	1,500.1	1,538.4	1,531.7	1,565.5	—
591	Drug stores and proprietary stores	483.8	486.4	300.1	501.7	—	437.9	441.3	455.2	456.6	—
592	Liquor stores	112.3	112.6	120.2	121.4	—	—	—	—	—	—
594	Miscellaneous shopping goods stores	482.6	494.8	482.0	500.5	—	414.5	424.8	412.5	430.5	—
596	Nonstore retailers	261.4	278.1	271.6	278.8	—	239.5	256.7	252.9	260.2	—
598	Fuel and ice dealers	97.7	101.2	96.0	97.3	—	81.8	85.1	80.8	81.9	—
599	Retail stores, nec.	224.0	226.7	221.7	224.3	—	189.0	192.0	185.8	188.6	—
—	FINANCE, INSURANCE, AND REAL ESTATE	4,491	4,503	4,754	4,726	4,732	3,414	3,422	3,622	3,597	3,598
60	BANKING	1,364.6	1,367.6	1,439.1	1,430.1	—	1,070.4	1,072.6	1,125.7	1,115.9	—
602	Commercial and stock savings banks	1,244.7	1,247.3	1,313.2	1,305.3	—	973.9	975.6	1,023.1	1,014.3	—
61	CREDIT AGENCIES OTHER THAN BANKS	477.1	478.7	504.8	503.7	—	366.5	367.2	388.7	387.6	—
612	Savings and loan associations	199.8	201.0	217.1	216.6	—	157.0	157.8	170.1	169.4	—
614	Personal credit institutions	191.6	191.4	198.7	198.4	—	144.0	143.7	150.9	150.6	—
62	SECURITY, COMMODITY BROKERS, AND SERVICES	182.1	181.2	191.2	191.5	—	—	—	—	—	—
621	Security brokers and dealers	149.2	148.3	156.9	157.1	—	—	—	—	—	—
63	INSURANCE CARRIERS	1,153.8	1,157.7	1,204.0	1,205.4	—	803.4	806.8	840.4	844.2	—
331	Life insurance	519.9	520.4	522.7	525.1	—	309.9	310.2	310.9	311.8	—

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	132.9	133.5	139.9	139.8	—	108.5	108.8	113.0	112.4	—
633	Fire, marine, and casualty insurance	434.6	436.8	467.9	468.0	—	330.7	333.0	356.3	360.5	—
64	INSURANCE AGENTS, BROKERS, AND SERVICE	373.5	376.0	398.5	398.2	—	—	—	—	—	—
65	REAL ESTATE	815.9	816.0	883.2	865.9	—	—	—	—	—	—
651	Real estate operators and lessors	412.6	415.3	440.1	433.2	—	—	—	—	—	—
653	Real estate agents and managers	273.4	273.3	300.8	293.4	—	—	—	—	—	—
655	Subdividers and developers	107.4	104.5	117.5	114.9	—	—	—	—	—	—
66	COMBINED REAL ESTATE, INSURANCE, ETC.	28.4	29.0	30.7	30.5	—	—	—	—	—	—
67	HOLDING AND OTHER INVESTMENT OFFICES.	95.9	96.4	102.1	100.5	—	—	—	—	—	—
	SERVICES	15,473	15,541	16,235	16,175	16,229	13,830	13,898	14,436	14,367	14,376
70	HOTELS AND OTHER LODGING PLACES	998.6	949.9	1,075.5	994.2	—	—	—	—	—	—
701	Hotels, motels, and tourist courts	953.6	911.5	998.5	954.2	—	877.9	838.1	921.3	877.3	—
72	PERSONAL SERVICES	884.3	891.5	885.2	896.5	—	—	—	—	—	—
721	Laundry, cleaning, and garment services	356.0	355.9	350.9	352.8	—	317.7	317.7	313.8	314.8	—
723	Beauty shops	277.7	279.4	277.9	282.2	—	253.8	255.7	256.4	261.0	—
726	Funeral service and crematories	68.1	68.4	70.4	70.6	—	—	—	—	—	—
73	BUSINESS SERVICES	2,403.6	2,429.0	2,588.2	2,616.9	—	2,089.0	2,115.2	2,248.4	2,276.2	—
731	Advertising	132.4	133.1	144.2	144.8	—	97.9	98.4	106.0	106.5	—
732	Credit reporting and collection	84.6	84.3	86.2	86.9	—	—	—	—	—	—
733	Mailing, reproduction, stenographic	94.6	96.0	99.4	102.5	—	—	—	—	—	—
734	Services to buildings	427.6	430.5	461.2	463.7	—	384.6	386.3	414.4	416.9	—
736	Personnel supply services	393.1	397.2	409.3	424.6	—	—	—	—	—	—
737	Computer and data processing services	189.2	191.6	212.4	212.5	—	154.5	156.5	174.2	174.2	—
75	AUTO REPAIR, SERVICES, AND GARAGES	495.9	500.1	520.5	519.4	—	425.3	430.5	446.8	447.4	—
753	Automotive repair shops	307.2	307.6	322.7	319.4	—	260.7	262.1	275.7	273.9	—
76	MISCELLANEOUS REPAIR SERVICES	241.1	243.1	243.0	243.2	—	207.2	209.6	207.7	207.3	—
78	MOTION PICTURES	231.9	224.1	240.4	228.5	—	204.9	197.2	211.3	200.4	—
781	Motion picture production and services	88.9	89.9	88.9	85.2	—	77.1	77.2	75.4	72.5	—
783	Motion picture theaters	132.6	123.9	141.3	133.1	—	—	—	—	—	—
79	AMUSEMENT AND RECREATION SERVICES	719.3	655.0	793.2	736.4	—	653.3	591.8	727.3	670.3	—
80	HEALTH SERVICES	4,614.2	4,626.8	4,808.8	4,801.6	—	4,127.1	4,136.4	4,289.2	4,276.6	—
801	Offices of physicians	655.0	656.7	690.7	687.0	—	544.9	545.6	569.8	563.2	—
802	Offices of dentists	285.4	283.1	286.0	287.1	—	254.4	251.9	248.3	249.5	—
805	Nursing and personal care facilities	868.5	868.4	920.1	917.3	—	788.0	787.3	831.6	828.3	—
806	Hospitals	2,478.3	2,487.9	2,564.8	2,562.6	—	2,249.9	2,260.5	2,341.5	2,338.5	—
81	LEGAL SERVICES	396.1	401.5	434.8	429.1	—	345.2	349.3	375.9	370.4	—
82	EDUCATIONAL SERVICES	982.6	1,095.8	855.6	975.6	—	—	—	—	—	—
821	Elementary and secondary schools	216.7	233.6	194.5	226.1	—	—	—	—	—	—
822	Colleges and universities	668.4	761.3	564.2	650.0	—	—	—	—	—	—
83	SOCIAL SERVICES	849.6	860.5	997.4	953.9	—	—	—	—	—	—
86	MEMBERSHIP ORGANIZATIONS	1,489.8	1,502.7	1,527.3	1,527.4	—	—	—	—	—	—
89	MISCELLANEOUS SERVICES	795.0	797.8	874.3	865.7	—	662.9	665.0	726.4	716.5	—
891	Engineering and architectural services	431.0	432.8	479.2	471.4	—	364.8	366.1	407.1	397.9	—
893	Accounting, auditing, and bookkeeping	252.5	253.3	270.6	271.2	—	204.2	204.9	214.3	215.1	—
	GOVERNMENT⁴	14,896	15,331	14,759	15,141	15,571	—	—	—	—	—
	FEDERAL GOVERNMENT	2,717	2,714	2,793	2,744	2,732	—	—	—	—	—
—	Executive	2,665.4	2,662.5	2,738.5	2,691.9	—	—	—	—	—	—
—	Department of Defense	909.1	907.8	918.6	905.4	—	—	—	—	—	—
—	Postal Service	655.0	649.2	649.0	651.9	—	—	—	—	—	—
—	Other executive agencies	1,101.3	1,105.5	1,170.9	1,134.6	—	—	—	—	—	—
—	Manufacturing activities	139.1	140.0	141.3	137.7	—	—	—	—	—	—
—	Shipbuilding	68.9	70.3	72.4	71.4	—	—	—	—	—	—

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 worker ¹				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	Executive—Continued										
	Transportation and public utilities, except										
	Postal Service	^C 37.1	37.3	37.9	38.0	-	-	-	-	-	-
-	Services	373.9	374.3	398.7	386.5	-	-	-	-	-	-
-	Hospitals	225.0	228.6	242.5	236.1	-	-	-	-	-	-
-	Legislative	39.3	38.9	41.0	39.3	-	-	-	-	-	-
-	Judicial	12.5	12.5	13.0	13.0	-	-	-	-	-	-
-	STATE AND LOCAL GOVERNMENT	12,179	12,617	11,966	12,397	12,839	-	-	-	-	-
-	State government	3,308.6	3,435.1	3,226.1	3,335.5	-	-	-	-	-	-
-	Hospitals	545.8	546.3	552.3	550.8	-	-	-	-	-	-
-	State education	1,315.3	1,440.6	1,126.3	1,274.9	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	866.7	878.9	943.1	921.7	-	-	-	-	-	-
-	Local government	8,870.4	9,182.0	8,740.0	9,061.5	-	-	-	-	-	-
-	Transportation and public utilities	551.0	548.6	573.1	571.4	-	-	-	-	-	-
-	Hospitals	494.3	494.5	517.0	514.9	-	-	-	-	-	-
-	Local education	4,830.8	5,184.1	4,299.3	4,837.0	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	2,358.6	2,633.1	2,970.2	2,770.2	-	-	-	-	-	-

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 U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

* Not available.

^P preliminary.

^C corrected. Data for August 1977 and July 1978 should be 37.2 and 38.0, respectively.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	July 1977	Aug. 1977	June 1978	July 1978	Aug. 1978
	TOTAL	32,559	32,716	35,239	34,351	34,468
	PRIVATE SECTOR	26,231	26,464	27,947	27,817	28,083
	MINING	66	67	76	78	78
10	METAL MINING	5.9	6.0	7.4	7.5	7.5
11, 12	COAL MINING	6.4	6.6	8.1	8.1	8.1
13	OIL AND GAS EXTRACTION	46.1	46.6	52.6	53.8	54.5
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	30.9	31.0	34.5	35.1	35.3
138	Oil and gas field services.....	15.2	15.6	18.1	18.7	19.2
14	NONMETALLIC MINERALS, EXCEPT FUELS	7.7	7.8	8.1	8.3	8.3
142	Crushed and broken stone.....	2.4	2.4	2.6	2.7	2.7
144	Sand and gravel.....	2.3	2.4	2.5	2.6	2.6
	CONSTRUCTION	311	313	338	341	343
15	GENERAL BUILDING CONTRACTORS	110.0	111.4	123.6	123.8	124.0
152	Residential building construction.....	64.5	65.9	75.2	75.0	75.3
153	Operative builders.....	15.5	15.3	16.9	16.6	16.8
154	Nonresidential building construction.....	30.0	30.2	31.5	32.2	31.9
16	HEAVY CONSTRUCTION CONTRACTORS	50.6	50.7	54.3	55.4	56.1
161	Highway and street construction.....	13.4	13.4	15.3	16.0	16.6
162	Heavy construction, except highway.....	37.2	37.3	39.0	39.4	39.5
17	SPECIAL TRADE CONTRACTORS	150.3	150.8	160.4	162.1	163.2
171	Plumbing, heating, air conditioning.....	42.4	42.2	45.1	45.8	45.9
172	Painting, paper hanging, decorating.....	9.3	9.0	10.2	10.5	10.5
173	Electrical work.....	26.7	27.0	28.8	28.9	29.2
174	Masonry, stonework, and plastering.....	17.3	17.7	18.5	18.7	18.5
175	Carpentering and flooring.....	12.1	12.2	12.2	12.4	12.7
176	Roofing and sheet metal work.....	9.7	9.8	10.9	11.1	11.2
-	MANUFACTURING	5,809	5,958	6,217	6,088	6,250
24, 25, 32-39	DURABLE GOODS	2,629	2,664	2,880	2,840	2,880
20-23, 26-31	NONDURABLE GOODS	3,180	3,294	3,337	3,248	3,370
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	97.6	99.2	108.6	107.1	108.6
241	Logging camps and logging contractors.....	4.7	4.7	5.2	5.3	5.4
242	Sawmills and planing mills.....	20.7	20.5	22.1	21.7	22.2
2421	Sawmills and planing mills, general.....	15.1	14.7	15.6	15.4	15.6
243	Millwork, plywood, and structural members.....	37.7	38.7	42.8	42.5	42.6
244	Wooden containers.....	7.2	7.2	7.4	7.3	7.3
245	Wood buildings and mobile homes.....	9.3	9.6	10.2	10.2	10.4
249	Miscellaneous wood products.....	18.0	18.5	20.9	20.1	20.7
25	FURNITURE AND FIXTURES	125.6	130.0	140.3	136.2	139.9
251	Household furniture.....	95.3	99.1	105.9	102.1	105.0
2511	Wood household furniture.....	39.9	41.9	45.0	43.4	44.0
2512	Upholstered household furniture.....	33.1	34.5	36.9	35.3	37.4
2515	Mattresses and bedsprings.....	8.2	8.2	8.6	8.7	8.7
252	Office furniture.....	9.0	9.1	9.8	9.8	10.1
253	Public building and related furniture.....	4.4	4.6	4.8	4.8	4.8
254	Partitions and fixtures.....	8.2	8.4	9.7	9.5	9.9
259	Miscellaneous furniture and fixtures.....	8.7	8.8	10.1	10.0	10.1
32	STONE, CLAY, AND GLASS PRODUCTS	126.0	126.4	131.1	130.4	131.8
322	Glass and glassware, pressed or blown.....	47.3	46.9	47.9	47.5	48.0
3221	Glass containers.....	28.5	28.4	28.6	28.3	28.2
3229	Pressed and blown glass, nec.....	18.8	18.5	19.3	19.2	19.8
323	Products of purchased glass.....	11.0	10.9	11.6	11.4	11.6
324	Cement, hydraulic.....	1.4	1.5	1.7	1.7	1.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1977	Aug. 1977	June 1978	July 1978	Aug. 1978
STONE, CLAY, AND GLASS PRODUCTS—Continued						
325	Structural clay products	6.3	6.5	6.5	6.2	6.4
326	Pottery and related products	16.1	16.7	16.9	16.7	17.0
327	Concrete, gypsum, and plaster products	13.3	13.2	14.2	14.5	14.6
329	Misc. nonmetallic mineral products	27.8	27.8	29.2	29.4	29.5
PRIMARY METAL INDUSTRIES						
33	.....	111.7	110.0	119.9	121.0	121.6
331	Blast furnace and basic steel products	34.5	34.8	38.9	39.6	39.8
3312	Blast furnaces and steel mills	26.8	26.9	30.4	31.3	31.5
332	Iron and steel foundries	16.8	15.3	17.6	18.4	17.5
3321	Gray iron foundries	8.8	8.5	9.7	9.7	9.3
3322	Malleable iron foundries	1.5	1.4	1.6	1.6	1.5
3325	Steel foundries, nec	3.6	3.6	4.2	4.4	4.3
333	Primary nonferrous metals	3.8	4.2	4.5	4.6	4.6
3334	Primary aluminum	1.4	1.4	1.6	1.7	1.7
335	Nonferrous rolling and drawing	37.4	36.3	38.7	38.3	39.1
3351	Copper rolling and drawing	3.4	3.3	3.6	3.8	3.7
3353	Aluminum sheet, plate, and foil	4.1	4.0	4.6	4.3	4.6
3357	Nonferrous wire drawing and insulating	22.8	22.5	22.5	22.2	22.6
336	Nonferrous foundries	14.3	14.6	15.2	15.2	15.5
3361	Aluminum foundries	6.7	6.8	7.1	7.1	7.2
FABRICATED METAL PRODUCTS						
34	.....	311.4	317.4	341.9	333.1	337.3
341	Metal cans and shipping containers	13.0	13.2	13.3	13.3	13.3
3411	Metal cans	11.5	11.7	11.7	11.7	11.6
342	Cutlery, hand tools, and hardware	57.5	58.5	63.6	61.5	61.9
3423, 5	Hand and edge tools, and hand saws and blades	15.6	15.7	17.1	16.8	16.8
3429	Hardware, nec	35.2	36.0	39.4	37.7	38.0
343	Plumbing and heating, except electric	14.6	15.2	16.9	16.1	16.7
344	Fabricated structural metal products	62.9	64.5	69.1	68.4	69.2
3441	Fabricated structural metal	6.8	6.8	7.1	7.0	7.1
3442	Metal doors, sash, and trim	22.0	23.2	23.8	23.2	23.3
3443	Fabricated plate work (boiler shops)	13.7	13.8	14.9	15.1	15.3
3444	Sheet metal work	12.1	12.2	14.0	13.7	13.9
345	Screw machine products, bolts, etc.	20.4	20.6	22.7	22.2	22.3
3451	Screw machine products	10.3	10.4	11.7	11.4	11.5
3452	Bolts, nuts, rivets, and washers	10.1	10.2	11.0	10.8	10.8
346	Metal forgings and stampings	52.9	54.0	57.2	54.8	55.7
3462	Iron and steel forgings	3.7	3.7	3.6	3.8	4.2
3465	Automotive stampings	13.5	13.9	15.2	14.5	14.3
3469	Metal stampings, nec	33.5	34.1	36.1	34.3	35.0
347	Metal services, nec	22.2	22.5	25.1	23.6	24.2
3471	Plating and polishing	16.6	16.9	18.6	17.1	17.7
3479	Metal coating and allied services	5.6	5.6	6.5	6.5	6.5
348	Ordnance and accessories, nec	15.2	15.5	16.1	16.2	16.3
349	Misc. fabricated metal products	52.7	53.4	57.9	57.0	57.7
3494	Valves and pipe fittings	19.7	20.0	20.7	20.7	20.8
3496	Misc. fabricated wire products	11.1	11.4	12.7	12.4	12.9
MACHINERY, EXCEPT ELECTRICAL						
35	.....	383.3	387.9	433.0	433.9	434.0
351	Engines and turbines	19.4	19.2	21.9	22.2	22.2
3511	Turbines and turbine generator sets	5.8	5.8	6.1	6.2	6.1
3519	Internal combustion engines, nec	13.6	13.4	15.8	16.0	16.1
352	Farm and garden machinery	22.0	22.0	22.8	22.4	21.9
3523	Farm machinery and equipment	17.7	18.0	17.9	18.0	17.6
353	Construction and related machinery	36.7	37.5	41.5	41.7	41.9
3531	Construction machinery	13.3	13.5	14.9	14.7	14.6
3533	Oil field machinery	8.1	8.2	9.0	9.2	9.2
354	Metalworking machinery	46.4	46.9	51.9	51.8	51.8
3541	Machine tools, metal cutting types	7.1	7.3	8.3	8.3	8.4
3544	Special dies, tools, jigs, and fixtures	12.4	12.5	14.0	14.1	14.3
3545	Machine tool accessories	11.5	11.5	12.9	12.9	12.9
355	Special industry machinery	26.2	27.0	29.6	29.4	29.8
3551	Food products machinery	5.6	5.8	6.0	5.9	6.0
3552	Textile machinery	5.6	5.9	6.0	5.7	5.8
3555	Printing trades machinery	5.0	5.2	6.8	6.9	7.0
356	General industrial machinery	52.6	52.6	56.9	56.9	57.0
3561	Pumps and pumping equipment	10.3	10.5	10.7	10.7	10.8
3562	Ball and roller bearings	12.7	12.7	13.6	13.4	13.2
357	Office and computing machines	103.2	104.5	123.4	125.4	125.9
3573	Electronic computing equipment	76.8	78.6	95.0	96.9	97.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1872 SIC Code	Industry	July 1977	Aug. 1977	June 1978	July 1978	Aug. 1978
MACHINERY, EXCEPT ELECTRICAL—Continued						
358	Refrigeration and service machinery	32.7	33.5	37.5	37.2	36.5
3585	Refrigeration and heating equipment	21.8	22.3	24.7	24.6	23.7
359	Misc. machinery, except electrical	44.1	44.7	47.5	46.9	47.0
3599	Machinery, except electrical, nec	35.5	35.8	38.0	37.7	37.6
ELECTRIC AND ELECTRONIC EQUIPMENT						
36	Electric distributing equipment	764.3	775.4	820.7	810.3	823.1
361	Transformers	43.0	43.1	43.4	42.5	42.9
3612	Switchgear and switchboard apparatus	19.7	19.5	20.4	19.9	19.9
3613	Electrical industrial apparatus	23.3	23.6	23.0	22.6	23.0
362	Motors and generators	85.1	85.0	92.3	91.9	92.2
3621	Industrial controls	46.6	46.7	50.9	50.7	50.8
3622	Household appliances	27.2	27.2	29.3	29.0	29.3
363	Household refrigerators and freezers	59.4	60.0	65.2	63.0	62.2
3632	Household laundry equipment	12.1	10.7	14.1	13.8	11.9
3633	Electric housewares and fans	4.9	4.8	5.3	5.4	4.9
3634	Electric lighting and wiring equipment	25.2	27.2	27.1	25.9	27.1
364	Electric lamps	91.8	92.7	98.7	96.2	98.8
3641	Current-carrying wiring devices	23.9	24.1	23.9	23.7	23.9
3643	Radio and TV receiving equipment	40.3	40.1	43.8	42.8	43.9
365	Radio and TV receiving sets	65.2	68.1	63.4	62.0	64.2
3651	Communication equipment	50.5	53.2	48.7	47.3	49.2
366	Telephone and telegraph apparatus	163.4	164.9	174.9	175.0	177.0
3661	Radio and TV communication equipment	68.4	68.4	71.7	71.8	71.9
3662	Electronic components and accessories	95.0	96.5	103.2	103.2	105.1
367	Electronic tubes	206.2	210.8	228.5	226.3	231.1
3671-3	Semiconductors and related devices	15.6	15.4	16.5	16.7	16.5
3674	Electronic components, nec	70.3	71.8	77.9	78.0	79.4
3679	Misc. electrical equipment and supplies	81.3	83.5	92.1	90.6	93.4
369	Engine electrical equipment	50.2	50.8	54.3	53.4	54.7
3694	Engine electrical equipment	24.8	25.0	27.6	27.0	27.6
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	260.1	256.5	288.1	286.9	285.0
371	Motor vehicles and car bodies	117.3	114.7	130.6	129.5	125.8
3711	Truck and bus bodies	44.8	41.8	51.5	50.5	46.7
3713	Motor vehicle parts and accessories	5.3	4.9	5.4	5.4	5.7
3714	Aircraft and parts	65.6	66.3	71.7	71.7	71.3
372	Aircraft	81.9	81.1	91.9	93.6	94.7
3721	Aircraft engines and engine parts	48.6	48.3	54.9	56.3	57.6
3724	Aircraft equipment, nec	17.7	17.5	20.0	20.2	19.9
3728	Ship and boat building and repairing	15.6	15.3	17.0	17.1	17.2
373	Ship building and repairing	23.3	22.9	22.2	21.5	21.7
3731	Guided missiles, space vehicles, parts	15.5	15.2	14.5	14.1	14.2
374	Guided missiles and space vehicles	5.1	5.0	5.2	5.1	5.1
376	Miscellaneous transportation equipment	15.2	15.2	15.9	16.1	16.3
3761	Miscellaneous transportation equipment	12.5	12.5	12.7	12.9	13.0
379	Miscellaneous transportation equipment	11.6	11.9	16.3	15.3	15.6
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	253.8	255.0	279.4	276.3	280.5
381	Measuring and controlling devices	17.2	17.8	20.0	19.8	20.8
382	Environmental controls	82.8	82.8	93.6	92.5	93.0
3822	Process control instruments	23.6	23.7	25.2	24.8	23.7
3823	Instruments to measure electricity	14.3	14.4	16.4	15.8	15.7
3825	Optical instruments and lenses	32.2	31.9	37.9	38.1	39.5
383	Medical instruments and supplies	8.6	8.7	9.4	9.5	9.7
384	Surgical and medical instruments	68.7	68.8	76.4	75.1	77.0
3841	Surgical appliances and supplies	29.0	29.1	32.6	32.5	33.4
3842	Ophthalmic goods	31.6	31.6	35.1	34.0	34.7
385	Photographic equipment and supplies	22.2	23.0	23.5	23.1	23.4
386	Watches, clocks, and watchcases	35.7	35.3	37.4	37.7	37.7
387	Watches, clocks, and watchcases	18.6	18.6	19.1	18.6	18.9
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Jewelry, silverware, and plated ware	195.1	206.1	216.8	204.7	217.9
391	Musical instruments	24.7	26.5	29.7	26.6	30.0
393	Toys and sporting goods	9.9	10.4	12.4	11.5	12.0
394	Dolls, games, toys, and children's vehicles	62.7	68.3	63.4	62.3	64.6
3942, 4	Sporting and athletic goods, nec	33.1	37.5	33.0	32.1	35.5
3949	Pens, pencils, office and art supplies	29.6	30.8	30.4	30.2	29.1
395	Costume jewelry and notions	17.9	18.4	19.0	18.6	18.9
396	Miscellaneous manufactures	31.9	34.6	39.9	34.3	39.7
399	Miscellaneous manufactures	48.0	47.9	52.4	51.4	52.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1977	Aug. 1977	June 1978	July 1978	Aug. 1978
	NONDURABLE GOODS					
20	FOOD AND KINDRED PRODUCTS	484.4	527.7	473.0	489.7	526.7
201	Meat products	106.7	106.1	109.6	110.5	111.1
2011	Meat packing plants	26.4	26.2	26.8	27.4	27.5
2013	Sausages and other prepared meats	20.2	19.8	20.1	20.4	20.4
2016	Poultry dressing plants	53.6	53.4	55.4	55.7	56.3
202	Dairy products	38.0	37.9	39.3	39.8	39.7
2026	Fluid milk	20.0	20.1	20.4	20.5	20.5
203	Preserved fruits and vegetables	106.3	148.2	85.5	98.9	130.2
2032	Canned specialties	8.2	9.7	9.4	8.9	9.8
2033	Canned fruits and vegetables	46.4	83.1	25.6	38.5	67.4
2037	Frozen fruits and vegetables	18.6	20.5	19.6	17.3	17.5
204	Grain mill products	27.4	27.6	28.5	28.4	29.0
205	Bakery products	60.4	62.3	60.9	60.8	60.8
2051	Bread, cake, and related products	40.5	42.3	42.1	42.0	41.8
2052	Cookies and crackers	19.9	20.0	18.8	18.8	19.0
206	Sugar and confectionery products	35.2	36.2	35.5	35.4	37.7
207	Fats and oils	4.9	4.9	5.1	5.1	5.1
208	Beverages	34.6	35.1	35.6	35.9	36.2
2082	Malt beverages	5.8	5.7	5.6	5.8	5.8
2086	Bottled and canned soft drinks	15.2	15.5	16.7	16.8	17.0
209	Misc. foods and kindred products	70.9	69.4	73.0	74.9	76.9
21	TOBACCO MANUFACTURES	24.4	28.5	23.9	23.3	27.1
211	Cigarettes	15.2	15.4	15.1	15.4	15.1
22	TEXTILE MILL PRODUCTS	420.2	428.8	433.5	421.2	430.9
221	Weaving mills, cotton	68.1	67.7	64.9	63.7	65.0
222	Weaving mills, synthetics	50.8	50.6	48.6	48.3	48.1
223	Weaving and finishing mills, wool	7.5	7.8	8.1	7.7	7.8
224	Narrow fabric mills	13.5	14.7	15.7	14.9	15.2
225	Knitting mills	147.7	153.0	159.8	154.9	160.1
2251	Women's hosiery, except socks	20.8	21.4	22.5	21.9	22.9
2252	Hosiery, nec	24.8	25.1	26.4	25.9	26.3
2253	Knit outerwear mills	51.5	55.7	57.1	54.8	57.7
2254	Knit underwear mills	24.8	24.8	28.0	27.6	27.8
2257	Circular knit fabric mills	15.4	15.3	14.9	14.1	14.8
226	Textile finishing, except wool	24.1	24.2	24.2	23.1	23.2
2261	Finishing plants, cotton	9.9	9.9	10.0	10.0	10.2
2262	Finishing plants, synthetic	6.8	6.6	6.9	6.4	6.1
227	Floor covering mills	23.5	24.1	25.1	24.8	25.4
228	Yarn and thread mills	64.6	65.6	66.1	63.1	64.9
2281	Yarn mills, except wool	39.4	40.2	41.6	40.4	40.8
2282	Throwing and winding mills	13.4	12.9	12.4	11.9	12.2
229	Miscellaneous textile goods	20.4	21.1	21.3	20.7	21.2
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,022.7	1,064.9	1,089.2	1,020.0	1,067.9
231	Men's and boys' suits and coats	67.0	70.1	70.7	67.0	69.8
232	Men's and boys' furnishings	300.6	318.6	319.4	296.1	311.8
2321	Men's and boys' shirts and nightwear	89.1	94.6	93.1	88.1	92.5
2327	Men's and boys' separate trousers	69.7	72.7	72.2	67.8	69.7
2328	Men's and boys' work clothing	76.0	82.3	81.2	70.9	78.0
233	Women's and misses' outerwear	352.0	362.3	369.4	346.4	362.5
2331	Women's and misses' blouses and waists	47.4	49.8	51.9	48.9	50.8
2335	Women's and misses' dresses	136.9	140.8	139.7	130.7	137.4
2337	Women's and misses' suits and coats	53.8	55.9	55.9	51.4	55.4
2339	Women's and misses' outerwear, nec	113.9	115.8	121.9	115.4	118.9
234	Women's and children's undergarments	80.3	83.1	82.5	78.2	81.1
2341	Women's and children's underwear	63.9	66.6	66.5	62.7	65.5
2342	Brassieres and allied garments	16.4	16.5	16.0	15.5	15.6
236	Children's outerwear	59.1	57.3	61.7	58.5	58.9
2361	Children's dresses and blouses	23.8	22.2	23.4	22.8	21.9
238	Misc. apparel and accessories	43.0	47.5	49.8	45.2	48.0
239	Misc. fabricated textile products	108.3	113.2	122.0	115.4	123.1
2391	Curtains and draperies	22.3	23.5	24.6	21.8	24.7
2392	House furnishings, nec	29.0	30.4	32.4	31.5	33.3
2396	Automotive and apparel trimmings	15.4	16.3	18.0	16.0	17.7
26	PAPER AND ALLIED PRODUCTS	151.7	154.5	162.0	158.7	160.6
261, 2,6	Paper and pulp mills	25.7	25.7	27.0	27.4	26.3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1977	Aug. 1977	June 1978	July 1978	Aug. 1978
PAPER AND ALLIED PRODUCTS—Continued						
262	Paper mills, except building paper	23.2	23.2	24.4	24.8	23.7
263	Paperboard mills	5.2	5.3	5.9	6.1	6.0
264	Misc. converted paper products	70.8	72.5	76.3	74.3	76.0
265	Paperboard containers and boxes	50.0	51.0	52.8	50.9	52.3
PRINTING AND PUBLISHING						
27	.....	425.8	427.0	452.4	451.3	455.4
271	Newspapers	133.6	134.0	143.3	143.6	144.6
272	Periodicals	42.6	43.2	46.7	47.3	47.9
273	Books	52.5	51.8	54.7	54.2	53.4
274	Miscellaneous publishing	25.7	25.3	25.3	24.4	25.1
275	Commercial printing	107.2	108.0	115.1	113.5	115.6
2751	Commercial printing, letterpress	49.9	50.4	53.0	52.1	53.3
2752	Commercial printing, lithographic	52.1	52.5	57.0	56.6	57.5
276	Manifold business forms	13.0	13.0	13.9	13.8	13.9
278	Blankbooks and bookbinding	29.8	30.4	31.5	32.2	32.5
279	Printing trade services	7.6	7.6	8.1	8.2	8.2
CHEMICALS AND ALLIED PRODUCTS						
28	.....	247.1	248.5	258.1	259.4	260.8
281	Industrial inorganic chemicals	21.0	21.1	22.2	22.7	22.8
2819	Industrial inorganic chemicals, nec	14.5	14.5	15.3	15.7	15.7
282	Plastics materials and synthetics	43.8	43.8	44.4	44.5	44.8
2821	Plastics materials and resins	9.5	9.5	10.4	10.4	10.4
2824	Organic fibers, noncellulosic	26.5	26.4	25.7	25.9	26.0
283	Drugs	72.3	72.4	73.7	73.9	73.9
2834	Pharmaceutical preparations	61.8	61.9	62.8	62.9	62.9
284	Soap, cleaners, and toilet goods	50.2	50.8	54.2	54.4	56.0
2841	Soap and other detergents	8.6	8.8	9.1	9.1	9.3
2844	Toilet preparations	30.3	30.6	32.9	33.2	34.5
285	Paints and allied products	11.1	11.2	12.3	12.3	12.6
286	Industrial organic chemicals	23.6	23.3	23.9	24.1	23.8
2861,9	Gum, wood, and industrial organic chemicals, nec	19.2	19.0	19.5	19.7	19.3
287	Agricultural chemicals	8.5	8.7	9.4	9.3	9.0
289	Miscellaneous chemical products	16.6	17.2	18.0	18.2	17.9
PETROLEUM AND COAL PRODUCTS						
29	.....	24.5	24.4	25.4	25.5	25.3
291	Petroleum refining	19.7	19.6	20.4	20.5	20.3
RUBBER AND MISC. PLASTICS PRODUCTS						
30	.....	234.6	236.5	261.5	253.7	260.1
301	Tires and inner tubes	12.6	12.6	12.1	11.9	12.1
302	Rubber and plastics footwear	14.2	13.0	13.5	11.8	13.5
303,4	Reclaimed rubber, and rubber and plastics hose and belting	5.8	6.0	6.2	5.9	5.9
306	Fabricated rubber products, nec	38.2	38.6	39.6	38.3	39.0
307	Miscellaneous plastics products	163.8	166.3	190.1	185.8	189.6
LEATHER AND LEATHER PRODUCTS						
31	.....	144.4	152.7	157.7	144.7	155.1
311	Leather tanning and finishing	2.9	3.0	3.2	3.0	3.2
314	Footwear, except rubber	97.9	102.4	108.5	99.4	106.0
3143	Men's footwear, except athletic	37.1	39.4	41.7	37.3	39.7
3144	Women's footwear, except athletic	40.9	42.9	44.5	41.7	44.4
316	Luggage	8.8	9.2	9.3	8.8	9.9
317	Handbags and personal leather goods	22.2	24.3	22.3	20.5	22.1
TRANSPORTATION AND PUBLIC UTILITIES						
-	.....	1,043	1,043	1,122	1,111	1,118
LOCAL AND INTERURBAN PASSENGER TRANSIT						
41	.....	31.7	31.0	52.1	33.2	33.4
411	Local and suburban transportation	7.5	7.5	9.3	9.3	9.3
412	Taxis	6.6	6.6	7.2	7.1	7.1
413	Intercity highway transportation	5.2	5.2	4.7	4.9	4.9
415	School buses	10.6	9.9	28.4	9.7	9.9
TRUCKING AND WAREHOUSING						
42	.....	128.2	128.6	137.6	137.7	139.4
421,3	Trucking and trucking terminals	114.7	115.2	123.3	123.3	124.2
422	Public warehousing	13.5	13.4	14.3	14.4	15.2
44	WATER TRANSPORTATION	17.3	17.6	18.4	18.1	18.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1977	Aug. 1977	June 1978	July 1978	Aug. 1978
45	TRANSPORTATION BY AIR	115.9	115.9	121.9	123.5	122.1
451,2	Air transportation	109.7	109.6	114.7	116.3	114.8
46	PIPE LINES, EXCEPT NATURAL GAS	1.9	2.0	1.9	1.9	1.9
47	TRANSPORTATION SERVICES	67.8	67.7	75.2	74.5	76.0
48	COMMUNICATION	535.3	534.0	561.1	567.9	572.4
481	Telephone communication	473.9	472.2	494.8	500.8	504.7
483	Radio and television broadcasting	46.9	47.5	52.0	52.3	52.8
49	ELECTRIC, GAS, AND SANITARY SERVICES	126.3	126.6	133.7	134.8	134.8
491	Electric services	55.9	56.2	59.9	59.9	59.9
492	Gas production and distribution	31.8	31.7	33.1	33.7	33.7
493	Combination utility services	30.4	30.5	31.4	31.8	31.7
495	Sanitary services	3.8	3.8	4.5	4.5	4.6
	WHOLESALE AND RETAIL TRADE	7,704	7,757	8,205	8,184	8,239
50,51	WHOLESALE TRADE	1,142	1,151	1,218	1,211	1,216
50	WHOLESALE TRADE-DURABLE GOODS	612	616	660	667	667
501	Motor vehicles and automotive equipment	82.5	82.8	87.2	88.4	88.5
502	Furniture and home furnishings	32.2	32.2	34.1	34.3	34.6
503	Lumber and construction materials	26.0	26.2	28.0	28.1	28.8
504	Sporting goods, toys, and hobby goods	21.0	20.9	22.7	22.1	21.3
505	Metals and minerals, except petroleum	23.1	23.4	24.8	24.9	25.2
506	Electrical goods	97.3	97.6	107.6	107.7	109.8
507	Hardware, plumbing, and heating equipment	57.2	57.1	61.6	62.2	62.9
508	Machinery, equipment, and supplies	227.4	230.0	246.5	248.1	249.6
509	Miscellaneous durable goods	45.6	45.8	47.5	45.9	46.0
51	WHOLESALE TRADE-NONDURABLE GOODS	530	535	558	549	549
511	Paper and paper products	36.8	36.8	38.3	38.1	38.0
512	Drugs, proprietaries, and sundries	54.3	54.8	58.3	57.3	57.5
513	Apparel, piece goods, and notions	72.2	73.6	77.0	75.1	77.3
514	Groceries and related products	144.6	145.2	152.1	146.6	142.1
516	Chemicals and allied products	26.9	27.1	28.7	29.5	29.2
517	Petroleum and petroleum products	44.0	44.5	46.6	47.1	47.7
518	Beer, wine, and distilled beverages	18.3	18.5	19.4	19.4	19.6
519	Miscellaneous nondurable goods	97.9	98.7	102.7	102.5	103.0
52-59	RETAIL TRADE	6,562	6,606	6,987	6,973	7,023
52	BUILDING MATERIALS AND GARDEN SUPPLIES	138.0	137.8	141.6	141.3	142.9
521	Lumber and other building materials	52.3	52.7	57.0	57.9	59.0
525	Hardware stores	46.2	46.4	48.8	48.7	48.7
53	GENERAL MERCHANDISE STORES	1,456.6	1,452.3	1,534.9	1,528.1	1,530.8
531	Department stores	134.3	1,146.0	1,217.0	1,213.2	1,212.5
533	Variety stores	218.5	216.6	222.5	220.4	222.7
539	Misc. general merchandise stores	89.9	89.7	95.4	94.5	95.6
54	FOOD STORES	841.2	845.1	892.6	887.9	892.0
541	Grocery stores	701.1	704.1	749.2	748.3	754.4
542	Meat markets and freezer provisioners	14.1	14.1	13.2	13.2	13.5
546	Retail bakeries	69.7	69.8	69.3	68.0	67.3
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	276.6	278.1	298.1	301.5	301.5
551,2	New and used car dealers	110.6	110.7	119.3	120.1	120.7
553	Auto and home supply stores	39.4	40.0	45.6	45.2	44.7
554	Gasoline service stations	112.0	113.6	118.8	121.5	122.2
56	APPAREL AND ACCESSORY STORES	557.0	562.5	583.5	576.9	582.2
561	Men's and boys' clothing and furnishings	56.0	56.4	58.7	58.6	59.0
562	Women's ready-to-wear stores	266.7	267.7	279.2	274.1	275.2
565	Family clothing stores	109.9	112.5	114.4	113.6	116.9
566	Shoe stores	61.2	61.9	66.8	66.0	66.5

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	July 1977	Aug. 1977	June 1978	July 1978	Aug. 1978
57	FURNITURE AND HOME FURNISHING					
	STORES	170.8	173.0	182.8	181.8	181.7
571	Furniture and home furnishings	117.5	118.2	122.9	123.1	122.9
572	Household appliance stores	21.4	22.2	23.8	23.6	23.1
573	Radio, television, and music stores	31.9	32.6	36.1	35.1	35.7
58	EATING AND DRINKING PLACES	2,268.2	2,296.4	2,451.0	2,461.9	2,487.3
59	MISCELLANEOUS RETAIL	853.5	860.5	902.5	893.9	904.3
591	Drug stores and proprietary stores	273.2	274.3	290.0	291.7	295.3
592	Liquor stores	22.4	22.4	24.7	25.2	25.9
594	Miscellaneous shopping goods stores	278.7	282.0	286.7	282.4	286.5
596	Nonstore retailers	140.9	142.5	151.4	150.3	152.4
598	Fuel and ice dealers	20.8	21.1	21.2	21.0	20.8
599	Retail stores, nec	99.6	99.8	108.9	103.7	103.3
	FINANCE, INSURANCE, AND REAL ESTATE	2,526	2,538	2,695	2,718	2,731
60	BANKING	930.3	933.9	984.9	991.2	996.8
602	Commercial and stock savings banks	855.3	858.1	906.1	911.7	917.4
61	CREDIT AGENCIES OTHER THAN BANKS	298.8	300.6	320.9	323.5	325.5
612	Savings and loan associations	142.2	143.1	155.3	156.9	157.6
614	Personal credit institutions	104.3	105.0	111.4	111.8	112.8
62	SECURITY, COMMODITY BROKERS, AND SERVICES	67.7	68.0	71.8	72.6	73.4
621	Security brokers and dealers	54.4	54.7	57.9	58.3	59.1
63	INSURANCE CARRIERS	662.7	664.4	704.4	711.3	713.1
631	Life insurance	267.8	267.6	271.5	273.7	273.5
632	Medical service and health insurance	96.0	96.0	100.6	100.7	100.8
633	Fire, marine, and casualty insurance	254.9	256.7	282.9	286.7	289.0
64	INSURANCE AGENTS, BROKERS, AND SERVICE	223.8	225.5	238.2	240.6	242.3
65	REAL ESTATE	280.1	281.6	306.9	310.3	311.1
651	Real estate operators and lessors	119.7	120.0	132.1	134.7	134.3
653	Real estate agents and managers	116.8	118.3	129.1	130.0	131.0
655	Subdividers and developers	27.8	27.3	28.5	28.3	28.4
66	COMBINED REAL ESTATE, INSURANCE, ETC	16.6	16.8	18.7	19.0	19.1
67	HOLDING AND OTHER INVESTMENT OFFICES	46.3	46.7	48.7	49.4	50.0
-	SERVICES	8,772	8,788	9,294	9,297	9,324
70	HOTELS AND OTHER LODGING PLACES	565.1	569.2	5,464	584.0	588.3
701	Hotels, motels, and tourist courts	526.7	528.4	522.1	545.1	546.1
72	PERSONAL SERVICES	584.0	581.1	599.8	591.7	589.5
721	Laundry, cleaning, and garment services	222.7	221.0	223.0	220.7	218.4
723	Beauty shops	242.4	242.4	248.4	245.5	246.5
728	Funeral service and crematories	17.2	17.3	18.1	18.2	18.3
73	BUSINESS SERVICES	959.3	973.8	1,058.1	1,071.0	1,087.5
731	Advertising	56.8	57.2	62.4	65.3	65.5
732	Credit reporting and collection	61.6	61.4	65.1	64.9	64.9
733	Mailing, reproduction, stenographic	40.8	42.7	46.2	46.9	47.8
734	Services to buildings	143.0	145.3	160.1	161.0	164.0
736	Personnel supply services	210.6	217.3	226.3	230.8	236.8
737	Computer and data processing services	85.7	87.1	96.8	99.2	99.2
75	AUTO REPAIR, SERVICES, AND GARAGES	76.4	76.8	85.1	84.4	84.7
753	Automotive repair shops	36.5	36.5	38.9	38.1	38.0
76	MISCELLANEOUS REPAIR SERVICES	42.4	43.0	46.5	45.8	46.0

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	July 1977	Aug. 1977	June 1978	July 1978	Aug. 1978
78	MOTION PICTURES	85.4	88.4	85.1	87.0	88.9
781	Motion picture production and services	24.4	27.2	22.3	23.3	24.4
783	Motion picture theaters	55.3	55.5	57.4	58.4	59.0
79	AMUSEMENT AND RECREATION SERVICES	292.0	293.7	302.0	309.5	309.8
80	HEALTH SERVICES	3,726.9	3,739.1	3,879.7	3,889.2	3,896.9
801	Offices of physicians	511.1	514.8	537.1	538.8	540.6
802	Offices of dentists	243.0	245.2	247.1	246.3	245.1
805	Nursing and personal care facilities	764.3	769.3	806.4	810.0	816.9
806	Hospitals	1,989.7	1,990.6	2,053.6	2,059.5	2,059.9
81	LEGAL SERVICES	287.7	284.7	304.7	306.2	307.2
82	EDUCATIONAL SERVICES	404.4	390.7	486.6	429.6	423.8
821	Elementary and secondary schools	93.2	83.1	149.4	122.0	120.2
822	Colleges and universities	257.8	256.3	281.9	254.0	250.0
83	SOCIAL SERVICES	617.7	620.7	686.8	704.2	706.2
89	MISCELLANEOUS SERVICES	229.1	231.4	257.6	257.6	259.5
891	Engineering and architectural services	80.2	80.6	90.7	91.5	92.1
893	Accounting, auditing, and bookkeeping	101.2	102.8	114.9	113.2	113.9
-	GOVERNMENT	6,328	6,252	7,292	6,534	6,385
-	FEDERAL GOVERNMENT	883	871	888	897	886
-	STATE AND LOCAL GOVERNMENT	5,445	5,381	6,404	5,637	5,499
-	State government	1,424.2	1,410.0	1,479.0	1,416.9	1,401.6
-	Hospitals	321.2	318.7	313.7	312.7	311.0
-	State education	521.9	505.6	550.6	485.7	479.8
-	General administration including executive, legislative, and judicial functions	390.4	396.5	423.6	421.5	414.6
-	Local government	4,020.4	3,970.6	4,925.0	4,220.4	4,097.8
-	Transportation and public utilities	65.0	65.3	75.4	76.8	77.1
-	Hospitals	378.3	380.1	395.3	397.8	396.7
-	Local education	2,456.9	2,403.7	3,300.2	2,537.0	2,426.2
-	General administration including executive, legislative, and judicial functions	928.0	924.2	959.9	1,004.1	994.3

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^P	Oct. ^P
TOTAL	83,199	83,549	83,719	83,871	84,188	84,726	85,418	85,618	85,996	86,033	86,149	86,167	86,597
GOODS-PRODUCING	24,507	24,617	24,626	24,648	24,724	24,927	25,313	25,341	25,473	25,501	25,463	25,455	25,660
MINING	833	840	687	678	684	698	867	869	879	882	887	891	897
CONSTRUCTION	3,905	3,928	3,955	3,905	3,901	3,999	4,164	4,175	4,278	4,317	4,298	4,285	4,344
MANUFACTURING	19,769	19,849	19,984	20,065	20,139	20,230	20,282	20,297	20,316	20,302	20,278	20,279	20,419
DURABLE GOODS	11,693	11,746	11,851	11,917	11,986	12,041	12,076	12,093	12,109	12,138	12,146	12,161	12,297
Lumber and wood products	736	745	756	754	756	752	751	745	747	743	743	745	749
Furniture and fixtures	471	475	481	484	487	491	491	489	486	485	481	479	483
Stone, clay, and glass products	673	680	685	689	691	692	699	700	701	698	692	691	698
Primary metal industries	1,182	1,180	1,180	1,186	1,193	1,189	1,192	1,197	1,197	1,199	1,205	1,214	1,226
Fabricated metal products	1,597	1,608	1,617	1,625	1,638	1,639	1,646	1,652	1,645	1,643	1,646	1,650	1,669
Machinery, except electrical	2,219	2,232	2,251	2,259	2,271	2,289	2,309	2,311	2,332	2,345	2,351	2,355	2,388
Electric and electronic equipment	1,891	1,903	1,912	1,923	1,935	1,951	1,951	1,952	1,962	1,977	1,975	1,972	1,983
Transportation equipment	1,867	1,860	1,895	1,917	1,928	1,944	1,936	1,942	1,929	1,937	1,941	1,944	1,984
Instruments and related products	620	623	628	632	635	639	644	643	654	660	661	660	662
Miscellaneous manufacturing ind.	437	440	446	448	452	455	457	456	456	451	451	451	455
NONDURABLE GOODS	8,076	8,103	8,133	8,148	8,153	8,189	8,206	8,204	8,207	8,164	8,132	8,118	8,122
Food and kindred products	1,682	1,693	1,700	1,706	1,705	1,718	1,715	1,701	1,702	1,688	1,670	1,666	1,670
Tobacco manufactures	72	71	74	74	74	76	74	75	76	73	69	71	71
Textile mill products	914	918	917	917	917	916	911	913	908	909	903	907	905
Apparel and other textile products	1,314	1,318	1,320	1,318	1,315	1,319	1,330	1,326	1,325	1,307	1,309	1,310	1,308
Paper and allied products	694	693	697	699	699	703	706	709	709	710	698	696	692
Printing and publishing	1,148	1,152	1,156	1,159	1,163	1,171	1,174	1,180	1,186	1,187	1,188	1,178	1,182
Chemicals and allied products	1,073	1,073	1,076	1,079	1,081	1,081	1,085	1,093	1,091	1,091	1,089	1,088	1,088
Petroleum and coal products	204	205	206	207	208	209	210	207	209	207	209	209	207
Rubber and misc. plastic products	720	726	734	737	738	744	748	747	749	749	746	742	750
Leather and leather products	255	254	253	252	253	252	253	253	252	243	251	251	249
SERVICE-PRODUCING	58,692	58,932	59,093	59,223	59,464	59,799	60,105	60,277	60,523	60,532	60,686	60,172	60,937
TRANSPORTATION AND PUBLIC UTILITIES	4,721	4,736	4,749	4,758	4,782	4,817	4,847	4,847	4,881	4,827	4,846	4,855	4,907
WHOLESALE AND RETAIL TRADE ..	18,733	18,830	18,911	18,991	19,071	19,169	19,252	19,335	19,412	19,469	19,523	19,539	19,638
WHOLESALE TRADE	4,745	4,761	4,783	4,802	4,828	4,854	4,872	4,883	4,905	4,901	4,905	4,932	4,956
RETAIL TRADE	13,988	14,069	14,128	14,189	14,243	14,315	14,380	14,450	14,507	14,568	14,618	14,607	14,682
FINANCE, INSURANCE, AND REAL ESTATE	4,508	4,535	4,547	4,563	4,591	4,605	4,623	4,637	4,670	4,690	4,707	4,721	4,737
SERVICES	15,510	15,568	15,618	15,597	15,670	15,773	15,866	15,896	15,963	15,989	16,074	16,143	16,197
GOVERNMENT	15,220	15,263	15,268	15,314	15,350	15,435	15,517	15,562	15,597	15,557	15,536	15,454	15,458
FEDERAL	2,728	2,727	2,723	2,736	2,736	2,739	2,745	2,753	2,772	2,765	2,765	2,752	2,746
STATE AND LOCAL	12,492	12,536	12,545	12,578	12,614	12,696	12,772	12,809	12,825	12,792	12,771	12,702	12,712

^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	1977					1978							
	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
TOTAL	33,395	33,558	33,658	33,842	34,013	34,167	34,313	34,531	34,755	34,921	35,077	35,099	35,170
GOODS-PRODUCING	6,250	6,268	6,300	6,346	6,388	6,432	6,458	6,510	6,545	6,568	6,592	6,584	6,587
MINING	66	67	67	68	66	68	68	68	73	73	75	77	77
CONSTRUCTION	308	309	311	313	316	320	320	326	328	329	334	337	338
MANUFACTURING	5,876	5,892	5,922	5,965	6,006	6,044	6,070	6,116	6,144	6,166	6,183	6,170	6,172
DURABLE GOODS	2,656	2,669	2,692	2,716	2,746	2,773	2,794	2,819	2,831	2,848	2,862	2,870	2,875
Lumber and wood products	97	98	100	102	103	104	105	105	105	106	107	106	106
Furnitures and fixtures	131	132	134	135	137	139	140	141	141	142	141	142	141
Stone, clay, and glass products	124	125	125	127	127	129	130	130	130	130	129	129	130
Primary metal industries	110	113	113	113	113	114	114	115	115	117	120	121	122
Fabricated metal products	317	318	321	323	327	329	332	334	336	339	339	339	337
Machinery, except electrical	390	390	397	402	407	412	414	419	426	429	433	437	437
Electric and electronic equipment	775	774	782	789	795	800	807	813	813	815	818	823	823
Transportation equipment	257	262	262	264	269	274	276	281	280	284	285	286	286
Instruments and related products	255	257	257	257	261	264	266	268	271	273	277	279	281
Miscellaneous manufacturing ind.	200	200	201	204	207	208	210	213	214	213	213	211	212
NONDURABLE GOODS	3,220	3,223	3,230	3,249	3,260	3,271	3,276	3,297	3,313	3,318	3,321	3,300	3,297
Food and kindred products	470	471	466	474	478	482	482	484	485	480	485	482	469
Tobacco manufactures	26	26	26	26	28	27	27	28	27	28	27	27	24
Textile mill products	426	426	428	430	428	430	430	431	429	430	429	430	428
Apparel and other textile products	1,061	1,063	1,062	1,065	1,067	1,066	1,065	1,069	1,078	1,076	1,074	1,059	1,064
Paper and allied products	153	152	153	153	154	155	156	157	159	161	160	159	159
Printing and publishing	427	430	432	434	434	438	440	446	447	451	452	452	456
Chemicals and allied products	245	245	245	246	247	248	249	252	253	256	256	258	257
Petroleum and coal products	24	24	24	24	24	24	24	24	25	25	25	25	25
Rubber and misc. plastics products	238	236	240	244	248	249	251	254	257	258	260	260	262
Leather and leather products	150	150	154	153	152	152	152	152	153	153	153	148	153
SERVICE-PRODUCING	27,145	27,290	27,358	27,496	27,625	27,735	27,855	28,021	28,210	28,353	28,485	28,515	28,583
TRANSPORTATION AND PUBLIC UTILITIES	1,051	1,055	1,059	1,064	1,071	1,075	1,086	1,094	1,104	1,102	1,115	1,117	1,127
WHOLESALE AND RETAIL TRADE ..	7,817	7,846	7,856	7,903	7,947	8,006	8,050	8,098	8,138	8,188	8,225	8,258	8,303
WHOLESALE TRADE	1,151	1,154	1,155	1,162	1,170	1,176	1,184	1,196	1,207	1,210	1,217	1,215	1,216
RETAIL TRADE	6,666	6,692	6,701	6,741	6,777	6,830	6,866	6,902	6,931	6,978	7,008	7,043	7,087
FINANCE, INSURANCE, AND REAL ESTATE	2,518	2,536	2,556	2,576	2,589	2,602	2,618	2,631	2,646	2,658	2,679	2,696	2,709
SERVICES	8,779	8,875	8,897	8,938	8,986	9,003	9,035	9,109	9,144	9,176	9,220	9,260	9,315
GOVERNMENT	6,980	6,978	6,990	7,015	7,032	7,049	7,066	7,089	7,178	7,229	7,246	7,184	7,129
FEDERAL	865	853	856	856	847	855	856	858	863	882	874	879	880
STATE AND LOCAL	6,115	6,125	6,134	6,159	6,185	6,194	6,210	6,231	6,315	6,347	6,372	6,305	6,249

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	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^P	Oct. ^P
TOTAL PRIVATE	55,660	55,969	56,095	56,114	56,348	56,744	57,263	57,428	57,653	57,704	57,771	57,843	58,149
GOODS-PRODUCING	17,874	17,985	17,976	17,954	18,016	18,198	18,541	18,565	18,660	18,675	18,619	18,617	18,799
MINING	635	639	502	493	494	509	655	659	663	667	668	674	679
CONSTRUCTION	3,062	3,083	3,099	3,021	3,023	3,122	3,288	3,303	3,401	3,439	3,419	3,410	3,462
MANUFACTURING	14,177	14,263	14,375	14,440	14,499	14,567	14,598	14,603	14,596	14,569	14,532	14,533	14,658
DURABLE GOODS	8,371	8,429	8,515	8,569	8,620	8,661	8,676	8,685	8,683	8,694	8,693	8,702	8,814
Lumber and wood products	630	639	646	650	650	647	646	639	641	637	636	636	640
Furniture and fixtures	387	391	397	399	401	405	405	404	400	398	394	393	397
Stone, clay, and glass products	534	544	549	553	551	552	558	557	558	554	549	548	552
Primary metal industries	922	921	922	929	937	933	934	939	939	942	947	955	967
Fabricated metal products	1,210	1,221	1,228	1,234	1,247	1,247	1,251	1,257	1,250	1,245	1,245	1,248	1,269
Machinery, except electrical	1,455	1,462	1,477	1,483	1,493	1,507	1,517	1,516	1,533	1,547	1,544	1,547	1,575
Electric and electronic equipment	1,243	1,252	1,258	1,267	1,276	1,288	1,284	1,283	1,284	1,293	1,293	1,289	1,297
Transportation equipment	1,281	1,284	1,312	1,326	1,332	1,342	1,337	1,344	1,327	1,328	1,336	1,338	1,360
Instruments and related products	378	380	384	386	388	391	394	397	402	407	405	404	410
Miscellaneous manufacturing ind.	331	335	342	342	345	349	350	349	349	343	344	344	347
NONDURABLE GOODS	5,806	5,834	5,860	5,871	5,879	5,906	5,922	5,918	5,913	5,875	5,839	5,831	5,844
Food and kindred products	1,131	1,142	1,151	1,156	1,158	1,168	1,167	1,154	1,152	1,142	1,124	1,123	1,128
Tobacco manufactures	57	57	59	59	59	60	59	60	61	58	54	56	57
Textile mill products	795	800	798	799	798	798	794	795	792	791	785	791	790
Apparel and other textile products	1,125	1,130	1,131	1,132	1,131	1,134	1,144	1,140	1,137	1,121	1,127	1,125	1,127
Paper and allied products	520	519	523	523	525	527	530	535	535	535	523	523	519
Printing and publishing	650	651	653	656	658	663	664	668	668	669	667	667	662
Chemicals and allied products	614	614	617	618	620	620	624	628	628	628	623	623	624
Petroleum and coal products	134	134	135	136	136	137	137	135	136	135	136	137	136
Rubber and misc. plastics products	562	569	575	576	578	583	586	586	587	587	584	580	588
Leather and leather products	218	218	218	216	216	216	217	217	217	209	216	216	213
SERVICE-PRODUCING	37,786	37,984	38,119	38,160	38,332	38,546	38,722	38,863	38,993	39,035	39,152	39,226	39,350
TRANSPORTATION AND PUBLIC UTILITIES	4,009	4,015	4,024	4,028	4,044	4,067	4,094	4,086	4,109	4,051	4,066	4,063	4,119
WHOLESALE AND RETAIL TRADE ..	16,496	16,607	16,676	16,737	16,812	16,894	16,952	17,079	17,106	17,165	17,214	17,217	17,296
WHOLESALE TRADE	3,908	3,925	3,943	3,958	3,982	4,007	4,020	4,026	4,043	4,040	4,042	4,067	4,093
RETAIL TRADE	12,588	12,682	12,733	12,779	12,830	12,887	12,932	13,053	13,063	13,125	13,172	13,150	13,203
FINANCE, INSURANCE, AND REAL ESTATE	3,425	3,445	3,453	3,472	3,494	3,500	3,516	3,523	3,546	3,565	3,579	3,593	3,602
SERVICES	13,856	13,917	13,966	13,923	13,982	14,085	14,160	14,175	14,232	14,254	14,293	14,353	14,333

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
1975				
January.....	18.0	13.1	11.9	15.7
February.....	21.2	12.8	12.8	16.9
March.....	26.5	20.1	18.6	18.3
April.....	41.0	36.6	29.4	20.9
May.....	51.5	43.0	48.3	27.0
June.....	43.0	53.2	57.3	41.0
July.....	56.1	61.6	67.2	54.1
August.....	73.3	73.5	69.2	64.5
September.....	67.4	77.3	75.9	74.1
October.....	68.3	70.6	80.5	79.7
November.....	60.5	74.4	84.0	82.3
December.....	71.5	78.2	83.7	86.3
1976				
January.....	78.2	85.8	87.2	85.2
February.....	72.4	84.9	85.8	84.0
March.....	69.5	81.4	82.0	85.2
April.....	70.1	72.4	75.6	78.8
May.....	58.1	67.2	68.3	82.6
June.....	57.8	65.1	71.2	79.9
July.....	58.4	57.8	63.1	78.5
August.....	49.1	64.0	65.1	77.6
September.....	64.8	53.8	66.3	80.2
October.....	47.1	65.1	73.3	80.8
November.....	67.4	64.2	78.8	80.8
December.....	66.6	81.4	81.4	82.6
1977				
January.....	76.2	83.1	88.1	78.8
February.....	66.0	86.3	87.8	80.5
March.....	74.7	81.1	85.2	80.2
April.....	68.0	79.4	79.4	84.6
May.....	64.8	76.2	75.9	84.0
June.....	71.2	68.0	72.1	83.1
July.....	59.3	63.4	69.8	82.6
August.....	51.7	58.7	74.1	83.7
September.....	60.8	62.5	72.1	82.6
October.....	60.5	73.8	77.9	81.1
November.....	73.8	75.3	82.0	81.1
December.....	72.1	79.7	83.1	80.8
1978				
January.....	69.8	80.2	85.5	80.5
February.....	70.3	80.2	79.9	79.1
March.....	70.1	75.9	77.9	77.3p
April.....	62.8	67.4	68.9	77.6p
May.....	56.4	63.7	67.7	
June.....	67.2	62.5	57.3p	
July.....	54.9	57.0	62.5p	
August.....	51.7	50.0p		
September.....	54.1p	59.9p		
October.....	68.0p			
November.....				
December.....				

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

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
1 ALABAMA	1,275.6	1,305.9	1,296.1	14.2	16.1	16.1	79.6	81.6	81.3	359.1	358.9	358.6
2 Birmingham	334.6	345.3	(*)	8.5	9.4	(*)	22.8	25.2	(*)	67.2	67.9	(*)
3 Huntsville	111.1	112.2	113.3	(1)	(1)	(1)	4.4	4.4	4.3	32.2	33.4	33.7
4 Mobile	141.6	142.7	(*)	(1)	(1)	(*)	11.6	11.8	(*)	29.6	29.7	(*)
5 Montgomery	96.6	99.4	98.2	(1)	(1)	(1)	6.7	6.5	6.4	15.0	15.5	15.6
6 Tuscaloosa	49.3	47.4	48.1	.9	1.0	1.0	3.6	3.9	3.8	10.2	8.9	8.7
7 ALASKA	165.8	170.0	(*)	4.7	5.2	(*)	20.1	18.1	(*)	10.3	16.3	(*)
8 ARIZONA	802.2	834.8	854.0	17.7	19.9	19.8	51.8	65.0	65.9	114.7	121.7	123.1
9 Phoenix	488.0	513.0	522.6	.6	.6	.6	31.7	40.7	41.5	85.2	89.8	90.5
10 Tucson	148.0	154.5	158.5	4.3	5.9	5.7	9.6	12.2	12.5	13.1	15.2	15.6
11 ARKANSAS	708.9	727.6	737.9	4.6	5.2	5.1	39.4	42.7	41.0	215.1	219.5	218.2
12 Fayetteville-Springdale	57.0	57.3	58.5	(1)	(1)	(1)	3.1	3.3	3.1	17.7	18.0	17.9
13 Fort Smith	63.1	64.9	66.1	.7	.8	.8	2.9	3.1	3.1	23.4	24.0	24.5
14 Little Rock-North Little Rock	166.4	170.3	169.5	(1)	(1)	(1)	9.4	10.3	10.1	31.7	30.9	30.4
15 Pine Bluff	28.9	28.6	29.7	(1)	(1)	(1)	1.0	1.3	1.2	6.2	6.1	6.1
16 CALIFORNIA	8,662.4	9,074.1	9,175.9	35.5	36.1	36.1	380.7	426.7	434.7	1,782.8	1,852.9	1,865.0
17 Anaheim-Santa Ana-Garden Grove	678.0	724.1	727.1	2.2	2.4	2.4	43.2	45.7	46.2	176.1	189.5	191.1
18 Bakersfield	111.7	117.1	116.4	9.2	9.7	9.7	5.4	6.0	6.0	9.1	9.5	9.7
19 Fresno	168.7	171.1	173.2	.8	.8	.8	9.2	10.4	10.4	24.2	25.0	24.1
20 Los Angeles-Long Beach	3,237.0	3,327.9	3,392.3	11.5	11.7	11.6	103.8	110.2	111.6	822.8	848.9	861.1
21 Modesto	89.5	91.6	91.2	.1	.1	.1	5.2	6.0	5.9	28.5	28.4	26.7
22 Oxnard-Simi Valley-Ventura	125.6	128.2	131.9	2.2	2.2	2.2	5.8	5.8	6.0	20.2	20.7	21.2
23 Riverside-San Bernardino-Ontario	368.7	381.9	388.3	2.5	2.3	2.3	18.5	20.7	21.1	57.5	61.8	62.0
24 Sacramento	360.3	371.6	374.9	.4	.4	.4	19.1	21.8	22.0	29.4	29.5	30.2
25 Salinas-Seaside-Monterey	82.8	82.5	84.1	.7	.7	.7	3.3	3.5	3.4	10.0	10.1	10.2
26 San Diego	549.8	570.6	585.3	.8	.8	.8	34.7	36.8	37.5	79.2	85.8	86.9
27 San Francisco-Oakland	1,410.8	1,428.6	1,438.1	2.0	1.8	2.0	63.9	65.5	66.6	199.3	196.6	199.9
28 San Jose	540.4	577.6	583.5	.1	.1	.1	23.2	24.7	25.1	178.0	199.4	201.8
29 Santa Barbara-Santa Maria-Lompoc	104.8	105.7	106.3	1.0	1.1	1.1	4.1	4.5	4.5	14.2	14.1	14.3
30 Santa Rosa	76.3	79.1	79.2	.3	.3	.3	4.9	4.8	5.0	11.4	12.2	12.2
31 Stockton	116.2	116.0	117.7	.1	.1	.1	4.9	5.3	5.3	26.2	25.7	24.8
32 Vallejo-Fairfield-Napa	90.5	94.7	94.6	.2	.2	.2	4.3	4.5	4.6	9.6	10.5	10.6
33 COLORADO	(*)	1,036.6	(*)	(*)	24.9	(*)	(*)	70.3	(*)	(*)	150.9	(*)
34 Denver-Boulder	(*)	656.9	(*)	(*)	11.3	(*)	(*)	45.0	(*)	(*)	102.9	(*)
35 CONNECTICUT	1,301.0	1,319.3	(*)	(3)	(3)	(*)	47.5	49.0	(*)	406.0	406.2	(*)
36 Bridgeport	153.2	156.2	155.9	(3)	(3)	(3)	4.0	5.3	5.3	60.9	62.7	63.0
37 Hartford	351.9	354.4	361.9	(3)	(3)	(3)	11.5	11.1	11.0	83.9	84.2	87.9
38 New Britain	57.2	56.0	58.1	(3)	(3)	(3)	2.0	1.9	1.9	27.8	27.3	28.1
39 New Haven-West Haven	176.3	177.5	181.5	(3)	(3)	(3)	6.3	6.7	6.7	43.7	43.5	44.0
40 Stamford	98.4	102.3	102.7	(3)	(3)	(3)	4.6	4.8	4.8	28.9	29.3	29.2
41 Waterbury	84.9	86.0	86.8	(3)	(3)	(3)	3.0	2.9	2.9	33.4	32.6	32.9
42 DELAWARE	238.5	240.5	244.1	(1)	(1)	(1)	15.1	16.1	15.9	70.2	66.6	70.2
43 Wilmington	209.9	210.9	216.4	(1)	(1)	(1)	14.0	14.9	14.8	65.5	62.5	66.3
44 DISTRICT OF COLUMBIA	577.5	590.4	578.0	(1)	(1)	(1)	15.0	15.7	15.6	14.9	15.1	15.0
45 Washington SMSA	1,390.0	1,439.1	1,426.8	(1)	(1)	(1)	76.9	79.2	78.2	50.3	51.5	51.4
46 FLORIDA	2,844.4	2,972.4	(*)	8.8	8.7	(*)	178.6	207.3	(*)	376.9	401.1	(*)
47 Fort Lauderdale-Hollywood	252.0	263.2	(*)	(1)	(1)	(*)	19.9	20.3	(*)	30.8	33.0	(*)
48 Jacksonville	264.7	261.0	(*)	(1)	(1)	(*)	15.1	14.9	(*)	32.3	33.9	(*)
49 Miami	606.5	632.0	(*)	(1)	(1)	(*)	27.4	31.9	(*)	87.1	92.6	(*)
50 Orlando	222.2	231.1	(*)	(1)	(1)	(*)	12.6	14.0	(*)	27.6	30.1	(*)
51 Pensacola	89.5	92.4	(*)	(1)	(1)	(*)	6.2	6.8	(*)	13.5	12.9	(*)
52 Tampa-St. Petersburg	436.5	451.6	(*)	(1)	(1)	(*)	27.7	32.1	(*)	61.1	64.5	(*)
53 West Palm Beach-Boca Raton	150.6	154.9	(*)	(1)	(1)	(*)	11.3	12.7	(*)	20.8	21.7	(*)
54 GEORGIA	1,912.5	1,939.1	1,946.9	7.1	7.5	7.4	91.8	99.5	99.8	498.3	498.4	506.4
55 Albany	38.0	39.8	39.6	(1)	(1)	(1)	3.0	3.9	3.9	9.5	10.1	10.1
56 Atlanta	796.7	791.7	801.7	(1)	(1)	(1)	34.2	34.6	35.1	131.9	126.7	133.9
57 Augusta	114.0	120.5	119.7	(1)	(1)	(1)	7.6	7.0	6.7	36.0	36.0	36.3
58 Columbus	79.2	80.6	80.5	(1)	(1)	(1)	4.8	5.4	5.5	20.6	20.7	20.5
59 Macon	94.6	95.2	94.9	(1)	(1)	(1)	4.3	4.3	4.5	16.9	16.4	16.3
60 Savannah	80.0	80.2	80.1	(1)	(1)	(1)	5.3	4.7	5.0	16.4	16.7	16.7

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			
SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	
66.4	69.7	69.7	261.2	265.2	266.1	56.8	58.1	57.9	180.3	182.4	182.9	258.0	273.9	263.5	1
24.9	26.7	(*)	81.3	83.0	(*)	22.7	23.7	(*)	58.2	59.1	(*)	49.0	50.3	(*)	2
2.6	2.6	2.6	21.1	21.7	21.8	3.1	3.2	3.2	16.4	16.5	16.4	31.3	30.4	31.3	3
10.9	10.9	(*)	34.6	35.1	(*)	6.6	6.6	(*)	26.1	26.4	(*)	22.2	22.2	(*)	4
4.5	4.9	4.8	23.8	24.2	24.2	5.6	5.8	5.7	17.2	17.9	17.8	23.8	24.6	23.7	5
1.8	1.8	1.8	9.2	9.1	9.3	1.6	1.7	1.6	5.6	5.2	5.3	16.4	15.8	16.6	6
16.6	16.4	(*)	28.0	28.7	(*)	8.0	8.3	(*)	26.5	26.5	(*)	51.6	50.5	(*)	7
41.3	44.5	44.6	194.4	202.3	205.5	45.5	48.1	48.2	154.1	157.6	159.3	182.7	175.7	187.6	8
25.1	27.3	27.4	127.4	132.1	134.4	34.8	36.7	36.7	92.7	96.2	98.0	90.5	89.6	93.5	9
7.8	8.0	7.9	34.4	35.5	36.2	6.8	7.1	7.2	30.3	31.4	31.9	41.7	39.2	41.5	10
39.2	41.0	42.8	152.8	161.5	161.7	29.8	31.0	30.7	98.8	102.0	102.7	129.2	124.7	135.7	11
2.8	2.9	3.0	13.6	14.4	14.5	2.0	2.2	2.2	7.0	7.5	7.7	10.8	9.0	10.1	12
2.9	3.2	3.2	13.1	14.0	13.8	2.2	2.4	2.4	10.5	10.9	11.0	7.4	6.5	7.3	13
11.3	11.7	11.7	38.8	39.6	39.7	11.9	12.2	12.2	29.9	31.2	31.1	33.4	34.4	34.3	14
3.6	3.5	3.5	5.8	5.8	5.8	1.2	1.3	1.3	4.5	4.8	4.8	6.6	5.8	7.0	15
486.3	503.1	509.8	2,004.1	2,141.4	2,160.5	506.3	531.0	533.4	1,765.8	1,894.1	1,900.8	1,700.9	1,686.8	1,735.6	16
20.8	22.4	23.1	166.2	180.1	180.4	40.0	43.7	43.9	135.1	149.0	147.9	94.4	91.3	92.1	17
6.8	7.3	7.4	28.5	29.9	29.9	4.1	4.3	4.3	18.2	19.1	19.2	30.4	31.3	30.2	18
9.4	9.6	9.7	46.1	48.4	48.3	8.8	9.3	9.3	30.6	31.5	31.5	39.6	36.1	39.1	19
181.7	186.5	189.8	747.4	779.5	785.2	197.9	204.8	204.8	697.0	729.2	736.1	474.9	457.1	492.1	20
3.6	3.7	3.8	19.8	20.7	21.1	2.6	2.7	2.7	14.2	15.2	15.2	15.5	14.8	15.7	21
5.3	5.4	5.5	29.2	32.6	32.5	5.1	5.1	5.1	21.8	22.5	22.2	36.0	33.9	37.2	22
20.4	21.3	21.5	88.8	93.4	94.2	14.6	15.4	15.4	74.8	77.3	78.1	91.6	89.7	93.7	23
19.0	19.6	19.7	81.0	83.1	84.2	17.2	18.5	18.7	60.7	64.4	64.6	133.5	134.3	135.1	24
4.9	5.0	5.0	22.4	22.4	22.4	3.6	3.8	3.8	16.2	17.2	17.1	22.6	19.8	21.5	25
24.9	26.0	25.9	126.3	135.5	137.1	30.5	32.5	32.6	118.4	127.3	128.2	135.0	125.9	136.3	26
121.6	123.9	124.5	323.6	325.4	330.9	122.2	126.9	127.0	295.5	305.4	307.3	282.7	283.1	279.9	27
19.0	19.5	19.6	104.0	110.5	111.4	21.6	22.5	22.5	116.0	124.5	123.6	78.5	76.4	79.4	28
3.8	3.8	3.8	25.4	26.2	26.2	4.5	4.5	4.5	26.7	27.8	27.7	25.1	23.7	24.2	29
4.0	4.2	4.2	17.8	19.0	19.1	4.2	4.4	4.4	14.7	15.4	15.3	19.0	18.8	18.7	30
8.2	8.1	8.2	24.8	26.1	26.6	4.5	4.7	4.7	20.4	20.7	21.2	27.1	25.3	26.8	31
3.9	4.0	4.0	17.6	19.4	19.4	3.0	3.1	3.1	15.6	16.9	16.5	36.3	36.1	36.2	32
(*)	68.7	(*)	(*)	243.9	(*)	(*)	63.3	(*)	(*)	200.5	(*)	(*)	214.2	(*)	33
(*)	46.4	(*)	(*)	159.4	(*)	(*)	46.9	(*)	(*)	126.0	(*)	(*)	118.9	(*)	34
56.8	54.5	(*)	274.1	276.6	(*)	91.2	95.3	(*)	248.3	262.9	(*)	177.1	174.8	(*)	35
5.6	5.4	5.7	31.8	32.0	32.9	6.4	6.5	6.4	28.4	28.5	28.2	16.2	15.7	14.4	36
14.6	14.2	15.2	74.1	73.0	75.1	52.6	55.7	55.5	65.0	67.8	68.5	50.2	48.4	48.8	37
1.4	1.3	1.4	9.6	9.5	9.9	1.5	1.6	1.6	8.4	8.6	8.8	6.6	5.8	6.5	38
14.3	14.1	14.8	37.6	37.5	38.4	9.6	10.0	9.9	42.0	42.9	44.0	22.8	22.7	23.6	39
3.4	3.5	3.5	22.8	23.4	23.4	6.7	7.0	7.0	22.3	23.9	23.8	9.7	10.5	11.1	40
3.0	2.9	3.1	15.5	15.7	15.9	2.9	3.1	3.1	16.3	18.2	17.9	10.8	10.6	11.0	41
12.5	12.3	12.4	51.5	51.8	52.3	11.1	11.3	11.2	38.8	41.7	41.4	39.3	40.7	40.7	42
11.4	11.4	11.5	42.0	42.3	43.0	9.8	10.1	10.0	34.6	37.0	36.9	32.6	32.7	33.9	43
25.6	25.9	25.9	64.3	65.9	65.8	33.2	33.1	33.1	151.0	149.9	152.4	273.5	284.8	270.2	44
63.7	64.9	64.6	268.8	277.3	277.9	81.4	83.8	83.5	334.2	341.9	344.1	514.7	540.5	527.1	45
185.7	181.7	(*)	734.0	758.1	(*)	199.7	210.5	(*)	607.9	652.8	(*)	552.8	552.2	(*)	46
13.3	13.4	(*)	71.1	75.0	(*)	21.7	22.5	(*)	56.6	61.8	(*)	36.6	37.2	(*)	47
21.7	21.8	(*)	70.0	70.0	(*)	27.8	28.9	(*)	48.4	49.0	(*)	49.4	42.5	(*)	48
59.5	61.6	(*)	159.4	158.7	(*)	44.6	46.1	(*)	141.3	144.2	(*)	87.2	96.9	(*)	49
11.4	11.2	(*)	61.0	63.1	(*)	15.3	16.5	(*)	57.6	61.7	(*)	36.7	34.5	(*)	50
4.4	4.6	(*)	20.3	21.0	(*)	3.7	3.6	(*)	16.7	17.6	(*)	24.7	25.9	(*)	51
26.4	25.9	(*)	123.0	126.1	(*)	32.5	34.1	(*)	94.3	97.2	(*)	71.5	71.7	(*)	52
6.8	6.9	(*)	39.0	39.7	(*)	12.0	12.9	(*)	35.2	35.6	(*)	25.5	25.4	(*)	53
119.8	125.6	125.9	438.2	445.0	445.8	100.0	102.1	101.9	284.0	289.1	286.6	373.3	372.0	373.2	54
1.8	1.9	1.9	8.4	9.0	8.8	1.8	1.8	1.8	4.9	4.8	4.8	8.5	8.3	8.4	55
71.5	74.7	75.0	223.2	224.9	224.9	56.6	57.5	57.5	146.3	146.9	145.4	133.1	126.3	130.0	56
3.8	3.9	3.9	19.9	24.7	25.1	4.2	4.3	4.3	14.5	15.0	14.9	28.1	29.8	28.4	57
3.1	3.2	3.2	16.7	17.4	17.2	4.8	5.0	5.0	11.0	11.2	11.0	18.1	17.7	18.1	58
4.4	4.4	4.3	16.5	19.1	19.0	5.6	5.7	5.7	15.2	15.7	15.4	29.8	29.6	29.6	59
8.0	8.1	8.0	18.3	18.7	18.7	3.8	3.9	3.9	13.1	12.9	12.8	15.2	15.2	14.9	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		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
1 HAWAII	349.4	369.7	359.6	(1)	(1)	(1)	19.0	20.1	20.3	22.3	26.4	22.9
2 Honolulu	289.1	306.1	297.9	(1)	(1)	(1)	15.6	17.2	17.3	16.3	19.9	16.8
3 IDAHO ⁴	316.0	333.7	336.3	3.3	3.9	3.9	20.8	23.3	23.1	55.5	59.5	60.0
4 Boise City ⁴	72.2	80.6	81.1	(1)	(1)	(1)	5.7	7.0	6.8	8.2	9.5	9.5
5 ILLINOIS	4,649.3	4,770.3	4,737.7	28.1	26.3	26.3	191.3	199.1	196.9	1,246.9	1,240.1	1,245.4
6 Bloomington—Normal	49.7	49.1	51.8	(3)	(3)	(3)	1.6	1.5	1.5	8.1	8.5	8.8
7 Champaign—Urbana—Rantoul	65.8	63.5	66.7	(3)	(3)	(3)	3.0	3.5	3.4	6.4	6.6	6.6
8 Chicago—Gary	3,386.3	3,491.3	(*)	4.7	4.5	(*)	140.6	157.5	(*)	946.4	958.0	(*)
9 Chicago SMSA ⁵	3,135.4	3,232.6	3,195.6	4.6	4.4	4.4	125.0	140.9	140.2	845.2	851.9	853.6
10 Davenport—Rock Island—Moline	157.1	156.3	157.6	(3)	(3)	(3)	7.2	7.6	7.3	48.3	46.3	47.3
11 Decatur	55.9	55.0	56.2	(3)	(3)	(3)	4.2	4.4	4.4	18.2	18.8	18.7
12 Peoria	148.3	153.9	154.6	(3)	(3)	(3)	9.1	10.1	9.9	50.4	53.1	53.2
13 Rockford	114.5	121.4	122.5	(3)	(3)	(3)	3.9	4.1	4.1	49.7	56.3	56.2
14 Springfield	84.4	90.7	84.2	(3)	(3)	(3)	4.9	5.1	5.0	9.7	8.5	8.4
15 INDIANA	2,124.2	2,202.1	2,203.0	9.0	9.4	9.5	96.2	108.1	107.3	721.2	735.5	743.6
16 Anderson	53.6	52.1	53.8	(1)	(1)	(1)	1.2	1.3	1.3	27.1	25.0	26.2
17 Evansville	118.1	120.8	120.6	2.4	2.5	2.4	6.8	7.2	7.4	36.7	37.9	37.3
18 Fort Wayne	165.6	169.5	171.1	(1)	(1)	(1)	6.8	7.7	7.5	60.5	61.6	62.1
19 Gary—Hammond—East Chicago ⁵	250.9	260.5	254.9	(1)	(1)	(1)	15.6	16.8	16.4	101.2	103.4	102.6
20 Indianapolis	490.9	500.5	504.2	(1)	(1)	(1)	20.4	21.4	20.9	126.8	126.5	128.9
21 Lafayette—West Lafayette	55.1	52.7	58.1	(1)	(1)	(1)	2.0	2.2	2.2	11.9	12.5	12.9
22 Muncie	48.8	48.8	49.4	(1)	(1)	(1)	2.2	2.3	2.3	14.9	14.1	14.5
23 South Bend	106.9	107.4	108.8	(1)	(1)	(1)	4.5	5.0	5.0	33.3	33.8	33.6
24 Terre Haute	61.7	61.7	63.4	1.2	1.3	1.3	2.7	2.6	2.6	16.8	17.1	17.1
25 IOWA	1,081.7	1,075.9	1,101.5	2.5	2.5	2.5	59.8	62.7	60.7	243.5	241.0	247.5
26 Cedar Rapids	80.1	81.6	82.8	(1)	(1)	(1)	3.7	4.2	4.1	28.0	29.1	29.5
27 Des Moines	169.6	170.0	171.6	(1)	(1)	(1)	8.1	7.9	7.6	24.6	24.0	24.3
28 Dubuque	43.4	43.1	43.7	(1)	(1)	(1)	1.8	2.1	2.0	16.9	16.4	16.4
29 Sioux City	53.2	50.9	52.0	(1)	(1)	(1)	4.5	4.1	4.1	11.3	9.8	9.9
30 Waterloo—Cedar Falls	63.9	62.1	63.8	(1)	(1)	(1)	3.0	2.8	2.5	22.1	21.6	21.7
31 KANSAS	875.4	888.2	901.2	12.2	13.4	13.4	47.0	48.5	47.1	172.3	182.0	186.3
32 Topeka	82.2	84.2	84.6	.2	.2	.2	3.8	4.0	3.9	11.0	11.5	11.3
33 Wichita	180.1	188.5	189.0	1.9	2.2	2.1	10.2	10.2	9.8	52.3	59.9	60.9
34 KENTUCKY	1,185.8	1,235.3	(*)	56.6	57.7	(*)	70.4	79.6	(*)	285.2	295.9	(*)
35 Lexington—Fayette	132.3	140.1	142.9	(1)	(1)	(1)	7.3	9.1	9.2	29.6	31.6	32.2
36 Louisville	377.0	401.6	400.1	(1)	(1)	(1)	19.5	22.5	22.2	107.4	110.0	110.0
37 Owensboro	29.0	30.2	30.3	.6	.8	.8	1.9	2.4	2.4	7.5	7.1	7.2
38 LOUISIANA	1,343.3	1,356.2	1,364.9	65.7	68.7	68.4	104.5	106.8	106.6	204.7	205.0	205.9
39 Alexandria	47.4	46.6	48.1	(1)	(1)	(1)	3.2	3.4	3.3	6.1	5.8	6.0
40 Baton Rouge	176.4	177.8	180.8	.9	.9	.9	22.2	23.8	23.8	24.0	24.4	24.4
41 Lafayette	58.1	58.1	58.3	9.4	10.0	10.0	4.8	5.4	5.3	3.5	3.5	3.7
42 Lake Charles	53.0	54.5	54.1	1.4	1.5	1.5	5.3	6.1	6.0	11.7	12.2	12.0
43 Monroe	46.4	47.8	48.0	.3	.3	.3	4.3	5.8	5.6	7.7	8.0	8.0
44 New Orleans	449.9	453.8	460.6	14.2	14.6	14.6	26.0	27.0	26.6	51.5	52.2	52.6
45 Shreveport	134.0	137.9	139.3	4.8	4.8	4.8	8.8	10.0	10.0	28.3	28.6	28.7
46 MAINE	400.2	416.2	411.6	(1)	(1)	(1)	23.5	23.1	22.6	108.3	112.0	111.9
47 Lewiston—Auburn	33.5	34.3	34.6	(1)	(1)	(1)	1.4	1.6	1.6	12.5	12.5	12.5
48 Portland	84.3	89.2	87.2	(1)	(1)	(1)	4.6	4.4	4.2	15.8	17.5	16.3
49 MARYLAND	1,543.6	1,585.5	1,586.4	1.6	1.6	1.6	99.7	99.2	99.0	240.4	242.3	244.9
50 Baltimore	869.4	901.3	897.6	(1)	(1)	(1)	46.6	48.2	48.2	164.2	164.8	167.2
51 MASSACHUSETTS	2,434.8	2,522.1	2,528.1	(1)	(1)	(1)	80.1	84.4	84.1	627.7	650.0	653.9
52 Boston	1,317.9	1,368.3	1,374.5	(1)	(1)	(1)	44.3	46.2	46.0	268.8	283.5	284.1
53 Brockton	54.3	56.5	57.2	-	-	-	1.9	2.1	2.1	11.8	12.1	12.1
54 Fall River	55.3	59.1	59.0	(1)	(1)	(1)	1.4	1.5	1.5	20.9	21.3	21.6
55 Lawrence—Haverhill	101.9	107.2	108.0	(1)	(1)	(1)	2.6	2.7	2.7	38.4	40.4	40.7
56 Lowell	67.3	69.0	69.6	(1)	(1)	(1)	2.9	2.9	2.9	22.6	23.1	23.4
57 New Bedford	62.1	63.1	63.0	(1)	(1)	(1)	1.7	2.0	2.0	25.4	25.4	25.6
58 Springfield—Chicopee—Holyoke	224.5	224.1	229.0	(1)	(1)	(1)	5.8	5.9	5.8	65.4	66.2	66.8
59 Worcester	153.0	156.3	157.4	(1)	(1)	(1)	4.6	4.3	4.3	45.0	46.7	46.8
60 MICHIGAN	3,459.3	3,490.4	3,576.2	10.2	14.1	14.3	141.3	169.3	166.6	1,130.0	1,083.5	1,157.0
61 Ann Arbor	126.0	124.8	128.9	(1)	(1)	(1)	3.2	3.7	3.8	41.1	41.6	42.7
62 Battle Creek	65.2	66.3	67.8	(1)	(1)	(1)	1.8	2.0	2.0	23.3	23.7	24.3

**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			
SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	
28.1	28.7	28.8	90.3	92.5	91.6	24.9	25.3	25.5	84.9	87.2	88.3	79.9	89.5	82.2	1
23.2	23.6	23.8	75.6	76.9	76.4	22.1	22.6	22.7	69.0	70.8	71.8	67.3	75.1	69.1	2
18.6	19.4	20.0	77.5	82.4	82.8	16.8	17.6	17.5	53.8	58.7	57.9	69.7	68.9	71.1	3
4.4	4.7	4.8	19.2	21.4	21.5	5.8	6.5	6.5	12.1	13.8	13.8	16.8	17.7	18.2	4
278.1	283.2	282.7	1,062.6	1,068.8	1,071.7	271.0	281.4	280.7	853.5	896.1	882.1	717.8	775.3	751.9	5
2.9	3.0	3.0	11.5	11.9	12.1	7.1	7.5	7.4	7.7	7.9	7.7	10.8	8.8	11.2	6
2.5	2.6	2.6	14.7	14.5	15.0	2.2	2.4	2.3	9.8	10.0	10.0	27.2	23.9	26.8	7
205.7	211.1	(*)	774.4	767.9	(*)	210.5	219.9	(*)	651.7	670.8	(*)	452.4	501.8	(*)	8
191.0	196.2	196.2	725.8	718.7	719.6	201.8	210.7	209.4	619.7	639.2	628.2	422.3	470.6	444.1	9
7.6	7.7	7.6	38.8	39.9	39.9	6.5	6.7	6.7	24.0	23.6	24.0	24.8	24.5	24.8	10
4.7	3.4	3.5	11.6	11.9	11.9	2.4	2.5	2.5	9.4	9.7	9.7	5.4	4.3	5.5	11
7.9	8.2	8.2	34.6	35.0	35.1	6.9	7.2	7.1	25.9	28.0	28.0	13.6	12.3	13.0	12
4.6	4.5	4.8	24.0	24.4	24.6	3.7	3.9	3.8	16.5	16.8	16.8	12.0	11.5	12.3	13
4.9	4.9	4.9	16.9	20.6	18.3	6.6	6.9	6.9	16.6	18.9	16.5	24.8	25.6	24.3	14
105.8	107.7	107.4	461.5	478.0	479.3	93.0	96.8	95.7	295.7	305.2	304.5	341.8	361.3	355.6	15
1.4	1.5	1.6	9.9	10.6	10.6	1.6	1.7	1.7	6.5	6.5	6.6	5.9	5.5	5.8	16
6.4	6.4	6.5	28.1	28.7	28.9	4.0	4.1	4.1	21.6	21.9	22.0	12.1	12.1	12.0	17
10.4	10.6	10.7	38.4	38.9	39.4	9.2	9.6	9.6	24.9	25.7	26.1	15.4	15.4	15.7	18
14.7	14.9	14.7	48.6	49.6	49.8	8.7	8.9	8.9	32.0	33.3	33.2	30.1	33.6	29.3	19
29.8	30.1	30.2	119.1	121.5	122.3	33.9	35.0	34.6	75.7	78.8	78.9	85.2	87.2	86.4	20
1.5	1.6	1.6	10.6	10.8	11.2	2.7	2.8	2.8	7.9	8.3	8.2	18.5	14.5	19.2	21
2.0	2.0	2.1	11.4	11.7	11.7	1.5	1.5	1.5	6.9	7.4	7.5	9.9	9.8	9.8	22
5.1	5.2	5.2	25.2	25.6	25.8	4.9	5.0	5.0	22.2	21.6	22.8	11.7	11.2	11.4	23
3.9	3.9	3.8	14.7	15.3	15.5	1.9	2.0	2.0	8.8	8.9	9.1	11.7	10.6	12.0	24
54.8	54.9	54.8	272.4	276.7	278.9	52.5	53.9	53.4	191.1	191.6	199.0	205.1	192.6	204.8	25
3.8	3.8	3.8	17.0	17.3	17.3	3.9	4.1	4.1	14.2	13.9	14.0	9.4	9.1	9.9	26
10.8	10.7	10.7	45.2	45.9	46.0	18.8	19.2	19.1	34.5	35.1	35.1	27.5	27.2	28.7	27
1.7	1.7	1.7	9.3	9.5	9.6	1.2	1.2	1.2	8.8	8.6	9.0	3.8	3.5	3.8	28
3.5	3.7	3.8	13.7	13.6	13.6	2.7	2.7	2.7	10.7	10.7	11.0	6.8	6.2	6.9	29
2.5	2.5	2.5	13.5	13.6	13.6	1.9	1.9	1.9	10.4	10.2	10.3	10.6	9.6	11.2	30
58.7	59.9	59.6	212.2	217.3	217.7	42.8	44.9	44.3	152.5	158.2	157.7	177.7	164.0	175.1	31
7.6	7.6	7.7	18.2	18.5	18.7	5.7	5.7	5.7	15.0	15.7	15.7	20.9	21.0	21.4	32
10.1	10.2	10.0	40.4	41.3	41.3	9.0	9.2	9.1	34.3	34.3	34.3	22.1	21.2	21.5	33
65.2	68.6	(*)	253.9	270.1	(*)	47.5	51.1	(*)	186.0	190.1	(*)	221.0	222.2	(*)	34
6.3	6.8	6.8	30.6	32.3	32.6	6.2	6.6	6.5	22.9	23.8	24.9	29.4	29.9	30.7	35
23.6	25.1	25.2	83.5	89.6	90.0	21.0	22.4	22.3	69.7	72.8	73.8	52.2	59.2	56.6	36
2.0	2.1	2.1	6.8	7.3	7.1	1.2	1.3	1.2	4.8	5.2	5.3	4.2	4.0	4.2	37
102.3	105.9	105.5	322.0	325.9	325.7	65.1	67.9	67.8	223.6	230.7	229.8	255.4	245.3	255.2	38
2.3	2.4	2.4	10.9	10.6	10.7	2.7	2.7	2.7	8.9	9.2	9.3	13.3	12.5	13.7	39
8.2	9.2	9.1	37.2	37.7	37.1	10.3	10.7	10.8	26.2	25.0	25.8	47.4	46.1	48.9	40
4.2	4.0	4.0	15.3	15.7	15.7	1.9	2.0	2.0	10.0	9.5	9.1	9.0	8.0	8.5	41
3.1	3.1	3.1	12.3	12.5	12.4	2.2	2.3	2.3	8.4	7.9	8.1	8.6	8.9	8.7	42
2.2	2.3	2.3	12.2	11.9	11.9	3.1	3.2	3.2	7.0	7.2	7.2	9.6	9.1	9.5	43
46.3	47.5	47.3	118.0	119.6	119.8	27.2	27.5	27.5	94.9	97.6	99.5	71.8	67.8	72.7	44
9.2	9.5	9.7	34.1	34.9	35.0	6.0	6.2	6.2	21.8	23.1	22.9	21.0	20.8	22.0	45
18.2	18.4	18.2	87.8	94.8	92.3	15.3	15.8	15.6	69.5	77.2	72.0	77.6	74.9	79.0	46
1.1	1.1	1.1	7.7	8.1	8.1	1.3	1.4	1.4	6.5	6.7	6.9	3.0	2.9	3.0	47
5.0	5.2	5.0	21.7	24.0	23.5	6.5	6.9	6.9	17.6	19.1	18.2	13.1	12.1	13.1	48
80.0	81.0	82.4	372.7	378.2	379.4	83.3	84.6	84.1	300.1	313.9	313.6	365.8	384.7	381.4	49
55.1	56.1	56.8	199.2	203.2	204.8	51.2	51.9	51.6	165.9	173.3	174.0	187.2	203.8	195.0	50
116.1	114.1	117.6	547.8	562.1	569.7	139.5	144.6	143.9	540.4	576.1	576.2	383.2	390.8	382.7	51
69.1	66.8	68.6	302.6	298.1	305.8	95.1	98.6	98.6	340.3	367.3	369.2	197.7	207.8	202.2	52
4.0	3.9	4.0	14.6	15.3	15.4	2.0	2.2	2.1	8.3	8.7	8.5	11.7	12.2	13.0	53
1.9	2.0	2.0	12.1	13.0	12.9	2.5	2.7	2.7	9.0	9.7	9.4	7.5	8.9	8.9	54
4.1	3.8	4.2	21.1	22.5	23.0	3.5	3.6	3.6	15.3	15.6	15.5	16.9	18.6	18.3	55
3.1	3.0	3.1	14.5	15.0	15.3	2.1	2.1	2.1	10.4	10.6	10.4	11.7	12.3	12.4	56
2.7	2.6	2.7	12.2	12.1	12.2	1.8	1.9	1.9	8.7	9.1	8.9	9.6	10.0	9.7	57
9.5	9.1	9.7	45.8	45.0	45.9	11.2	11.6	11.5	42.8	42.5	43.8	44.0	43.8	45.5	58
6.9	6.6	6.7	33.4	33.7	33.7	8.3	8.5	8.4	28.7	28.9	29.9	26.1	27.6	27.6	59
148.9	152.2	152.3	709.2	715.8	724.0	141.1	147.3	146.3	578.5	605.5	607.0	600.0	602.6	608.8	60
2.3	2.4	2.4	17.9	18.2	18.4	3.6	3.9	3.9	17.8	17.8	17.6	40.1	37.3	40.1	61
2.1	2.2	2.2	10.7	11.2	11.2	3.5	3.6	3.6	11.4	11.3	11.8	12.4	12.3	12.7	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		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
MICHIGAN—Continued												
1 Bay City	35.3	36.5	37.3	(1)	(1)	(1)	1.7	2.0	2.0	10.9	11.3	11.7
2 Detroit	1,709.5	1,720.8	1,762.7	1.3	1.2	1.2	68.0	79.8	78.4	577.3	550.3	590.9
3 Flint	196.0	191.0	204.4	(1)	(1)	(1)	6.7	8.4	8.3	87.6	76.0	88.1
4 Grand Rapids	241.0	245.0	250.8	(1)	(1)	(1)	11.2	13.1	12.8	83.7	85.3	88.7
5 Jackson	51.7	52.2	53.6	(1)	(1)	(1)	1.9	1.5	1.4	16.0	16.8	17.0
6 Kalamazoo—Portage	105.7	104.0	108.7	(1)	(1)	(1)	4.4	4.7	4.7	35.5	35.7	36.2
7 Lansing—East Lansing	174.4	172.6	183.3	(1)	(1)	(1)	5.8	6.4	6.2	42.4	35.5	45.1
8 Muskegon—Norton Shores—Muskegon Hgts	61.0	61.7	62.3	(1)	(1)	(1)	2.8	3.2	3.2	22.6	22.4	22.9
9 Saginaw	88.1	91.3	92.8	(1)	(1)	(1)	2.8	3.1	3.3	36.8	37.3	37.7
10 MINNESOTA	1,615.4	1,701.6	1,704.1	6.2	18.9	18.7	83.0	93.2	92.6	349.4	373.4	370.2
11 Duluth—Superior	59.2	60.7	59.3	(1)	(1)	(1)	2.9	2.6	2.5	7.8	8.0	7.9
12 Minneapolis—St. Paul	971.2	1,011.8	1,019.4	(1)	(1)	(1)	42.8	50.4	50.5	224.8	236.9	238.9
13 MISSISSIPPI	775.4	797.8	802.4	7.9	8.3	8.2	42.1	45.5	43.6	235.2	234.9	235.6
14 Jackson	129.3	132.6	134.1	1.1	1.1	1.1	7.3	8.0	7.8	18.7	18.8	18.8
15 MISSOURI	1,877.1	1,874.8	1,905.0	8.8	7.2	7.2	83.4	88.0	85.6	445.5	437.8	451.6
16 Kansas City	596.5	598.2	609.8	.5	.5	.6	25.3	29.1	28.8	122.5	118.0	126.0
17 St. Joseph	36.0	35.7	35.8	(3)	(3)	(3)	1.9	2.3	2.2	9.4	9.5	9.1
18 St. Louis	938.4	935.1	954.9	2.7	2.7	2.7	39.6	40.3	41.4	251.5	244.8	254.3
19 Springfield	78.5	78.0	80.8	(3)	(3)	(3)	3.9	4.0	4.1	18.4	17.9	18.3
20 MONTANA	275.5	274.5	276.4	6.1	7.3	7.2	18.6	17.7	17.5	24.7	25.1	25.1
21 Billings	44.9	44.0	44.0	(1)	(1)	(1)	3.3	3.4	3.3	3.5	3.6	3.6
22 Great Falls	30.6	29.9	29.6	(1)	(1)	(1)	2.2	2.0	2.0	1.8	1.7	1.7
23 NEBRASKA	591.8	602.2	606.1	1.7	1.7	1.6	34.0	37.3	35.9	91.0	93.6	94.2
24 Lincoln	96.8	95.3	98.3	(3)	(3)	(3)	4.5	4.8	4.6	14.3	14.2	14.2
25 Omaha	254.3	256.8	257.0	(3)	(3)	(3)	12.9	13.4	13.0	35.0	35.4	35.6
26 NEVADA	320.3	351.5	354.2	4.2	3.4	3.3	21.2	25.5	25.6	15.5	17.0	17.0
27 Las Vegas	173.1	187.5	189.3	.2	.2	.2	10.6	12.8	12.9	5.8	6.1	6.1
28 Reno	93.5	108.3	108.4	.6	.7	.7	7.9	9.5	9.3	6.9	7.7	7.6
29 NEW HAMPSHIRE	349.3	373.0	(*)	.5	.4	(*)	21.6	22.7	(*)	103.8	106.3	(*)
30 Manchester	67.7	71.9	(*)	(3)	(3)	(*)	3.5	3.6	(*)	19.3	19.4	(*)
31 Nashua	51.6	53.8	(*)	(3)	(3)	(*)	2.5	2.7	(*)	23.4	23.8	(*)
32 NEW JERSEY	2,878.3	2,997.0	2,952.4	3.0	2.9	2.8	106.0	118.7	118.2	781.6	786.5	795.5
33 Atlantic City	70.4	80.9	74.7	-	-	-	3.5	4.0	3.9	8.5	7.7	7.6
34 Camden	306.2	318.5	318.5	.1	.1	.1	11.9	12.9	12.7	67.5	70.1	70.2
35 Hackensack	372.9	378.8	383.0	(1)	(1)	(1)	14.9	16.1	16.4	111.6	112.2	113.5
36 Jersey City	231.9	236.6	231.2	-	-	-	4.1	4.3	4.6	73.7	71.6	72.7
37 Long Branch—Asbury Park	148.6	156.3	151.8	(1)	(1)	(1)	6.0	7.1	6.8	24.3	23.8	23.7
38 New Bruns.—Perth Amboy—Sayreville	260.2	272.7	271.2	(1)	(1)	(1)	9.3	9.8	9.4	87.3	91.0	91.1
39 Newark	898.7	927.0	916.0	.9	1.0	1.0	32.9	35.5	35.1	246.9	246.1	251.1
40 Paterson—Clifton—Passaic	180.9	191.2	189.8	(1)	(1)	(1)	5.9	6.0	6.1	65.4	67.7	68.5
41 Trenton	157.6	158.2	162.4	(1)	(1)	(1)	3.2	3.2	3.2	38.1	37.0	37.8
42 Vineland—Millville—Bridgeton	55.7	58.6	58.7	(1)	(1)	(1)	1.8	2.0	1.9	19.9	19.7	20.5
43 NEW MEXICO	424.2	453.8	456.2	24.1	24.8	24.9	32.4	36.3	35.7	32.4	34.2	34.6
44 Albuquerque	168.9	180.5	181.9	(1)	(1)	(1)	13.1	15.6	15.5	16.7	17.9	18.1
45 NEW YORK	6,872.2	7,023.9	(*)	7.6	7.4	(*)	209.7	218.6	(*)	1,480.1	1,491.1	(*)
46 Albany—Schenectady—Troy	320.3	329.2	(*)	(1)	(1)	(*)	11.4	12.2	(*)	64.3	62.2	(*)
47 Binghamton	112.1	113.9	(*)	(1)	(1)	(*)	4.9	4.8	(*)	40.5	42.0	(*)
48 Buffalo	503.9	508.6	(*)	(1)	(1)	(*)	20.6	20.3	(*)	147.5	142.8	(*)
49 Elmira	37.1	37.7	(*)	(1)	(1)	(*)	1.8	1.9	(*)	11.7	11.4	(*)
50 Monroe County	320.2	324.8	(*)	(1)	(1)	(*)	10.5	10.5	(*)	128.4	131.4	(*)
51 Nassau—Suffolk	831.5	866.7	(*)	(1)	(1)	(*)	34.0	36.3	(*)	152.6	155.6	(*)
52 New York—Northeastern New Jersey	6,351.2	6,508.0	(*)	3.5	3.5	(*)	186.4	189.1	(*)	1,367.3	1,373.8	(*)
53 New York and Nassau—Suffolk	4,405.6	4,507.6	(*)	1.9	1.9	(*)	119.3	117.8	(*)	782.4	786.4	(*)
54 New York SMSA	3,574.2	3,640.9	(*)	1.7	1.7	(*)	85.3	81.5	(*)	629.8	630.4	(*)
55 New York City	3,171.3	3,222.1	(*)	1.5	1.5	(*)	68.9	65.2	(*)	546.0	544.7	(*)
56 Poughkeepsie	88.1	91.0	(*)	(1)	(1)	(*)	3.1	3.0	(*)	28.7	30.7	(*)
57 Rochester	395.3	400.9	(*)	(1)	(1)	(*)	12.8	13.2	(*)	150.2	152.7	(*)
58 Rockland County	75.1	78.4	(*)	(1)	(1)	(*)	2.4	2.7	(*)	15.1	15.4	(*)
59 Syracuse	250.5	252.6	(*)	(1)	(1)	(*)	11.8	10.5	(*)	59.3	60.5	(*)
60 Utica—Rome	112.8	116.3	(*)	(1)	(1)	(*)	3.3	3.6	(*)	30.6	31.0	(*)
61 Westchester County	316.6	328.7	(*)	(1)	(1)	(*)	13.2	12.8	(*)	67.5	69.1	(*)

**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			
SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	
2.1	2.1	2.1	8.6	9.0	9.1	1.1	1.1	1.1	6.0	6.3	6.2	4.9	4.7	5.1	1
81.5	83.3	83.7	340.0	342.2	346.2	82.1	85.0	84.3	311.0	328.0	328.3	248.4	251.0	249.7	2
6.1	6.1	6.2	37.3	40.4	40.0	5.5	5.8	5.7	26.7	27.9	27.9	26.1	26.4	28.2	3
9.6	9.7	9.8	55.5	55.9	56.8	8.5	8.9	8.8	42.6	42.7	43.5	29.9	29.4	30.4	4
4.4	4.5	4.5	9.9	10.5	10.6	1.5	1.6	1.6	9.1	9.5	9.7	8.9	7.8	8.8	5
3.5	3.4	3.4	19.8	20.1	20.3	3.5	3.7	3.6	17.8	18.4	18.5	21.2	18.0	22.0	6
4.4	4.5	4.5	32.9	33.5	34.1	8.4	9.0	9.0	24.3	24.9	25.0	56.2	58.8	59.4	7
3.1	3.1	3.1	11.4	12.0	11.9	1.7	1.8	1.8	8.9	8.9	9.0	10.5	10.3	10.4	8
4.0	4.1	4.2	17.4	18.2	18.0	3.8	3.9	3.9	11.8	13.2	13.2	11.5	11.5	12.5	9
95.1	92.7	95.8	412.3	429.1	430.5	84.1	89.2	89.2	315.1	333.4	334.5	270.3	271.6	272.5	10
6.5	7.6	7.3	16.0	16.9	17.0	2.0	2.2	2.1	11.8	12.3	12.1	12.1	11.0	10.3	11
61.2	58.7	60.3	243.2	250.3	253.7	61.9	65.2	65.4	199.3	210.5	211.2	138.0	139.9	139.4	12
36.9	37.6	37.7	152.1	157.3	157.4	30.3	31.5	31.4	108.4	114.2	115.3	162.5	168.5	173.1	13
8.1	8.2	8.2	30.8	33.4	33.4	10.0	10.3	10.3	25.2	24.5	25.9	28.2	28.3	28.6	14
130.9	131.5	132.6	448.5	458.8	457.5	96.2	98.7	97.6	343.5	349.1	349.3	320.3	303.7	323.6	15
52.5	50.4	50.9	152.6	153.4	153.3	38.6	40.0	39.8	116.7	121.1	120.3	87.6	85.7	90.1	16
2.5	2.3	2.4	8.7	8.3	8.3	1.8	1.9	1.9	6.3	6.3	6.2	5.4	5.1	5.7	17
66.2	67.5	68.3	209.7	209.4	209.6	50.2	51.4	50.9	184.9	188.3	190.0	133.6	130.7	137.7	18
5.6	5.8	5.7	21.9	22.6	22.9	3.0	3.1	3.1	15.2	15.8	15.9	10.5	8.8	10.9	19
20.6	22.2	22.2	69.4	72.9	72.7	11.9	12.2	12.1	51.3	48.5	48.0	72.9	68.6	71.6	20
3.8	3.8	3.8	15.0	14.9	14.8	2.1	2.2	2.2	8.4	8.7	8.7	8.8	7.4	7.6	21
1.8	1.9	1.9	10.2	10.2	10.2	1.9	1.9	1.9	6.5	6.3	6.3	6.2	5.9	5.6	22
42.6	44.8	44.6	154.1	156.2	157.5	38.2	39.3	39.1	103.1	105.2	106.5	127.3	124.1	126.7	23
6.7	6.9	6.9	20.6	20.6	21.4	6.7	7.0	6.8	15.6	14.7	15.9	28.3	27.1	28.5	24
22.1	23.1	22.9	64.0	65.0	65.5	22.0	22.8	22.8	53.4	53.1	53.9	44.9	44.0	43.3	25
18.9	20.6	20.7	63.8	69.8	71.6	13.3	14.3	14.3	133.6	150.4	149.0	49.8	50.5	52.7	26
10.5	11.4	11.5	35.3	39.9	40.8	7.0	7.5	7.5	81.5	86.5	86.6	22.2	23.1	23.7	27
6.0	6.6	6.7	19.7	21.5	21.4	4.9	5.3	5.3	33.8	43.6	42.7	13.7	13.4	14.7	28
12.6	12.8	(*)	77.9	84.6	(*)	16.4	17.9	(*)	65.0	75.5	(*)	51.5	52.8	(*)	29
4.0	4.2	(*)	16.7	18.6	(*)	4.8	5.4	(*)	11.6	12.6	(*)	7.8	8.1	(*)	30
1.6	1.7	(*)	9.9	10.7	(*)	1.7	1.8	(*)	7.6	8.2	(*)	4.9	4.9	(*)	31
184.9	191.0	190.9	648.9	661.4	660.0	144.5	153.5	151.6	528.8	558.8	548.1	480.6	524.2	485.3	32
3.4	3.6	3.4	20.3	23.1	20.3	4.3	4.5	4.4	16.9	22.6	21.2	13.6	15.4	13.9	33
14.6	14.7	14.7	80.0	82.2	83.3	14.9	15.7	15.6	59.7	62.5	61.2	57.5	60.3	60.3	34
18.3	18.0	18.2	109.7	110.4	112.7	14.0	14.6	14.3	65.4	67.7	67.9	39.1	39.8	40.0	35
29.3	29.2	29.1	44.7	44.8	46.0	8.8	9.0	8.9	29.0	28.6	28.2	42.3	49.1	41.7	36
6.0	6.0	6.2	37.5	41.0	39.3	6.8	7.1	7.0	35.8	38.0	35.7	32.1	33.3	33.1	37
17.5	18.3	18.7	58.3	60.5	61.9	8.4	8.6	8.5	35.4	37.3	37.6	44.0	47.2	44.0	38
68.9	69.0	68.8	171.9	171.8	174.0	60.9	64.3	64.2	173.6	182.2	180.5	142.7	157.1	141.3	39
6.8	6.8	6.7	41.1	41.3	41.8	9.1	9.9	9.4	27.8	29.0	29.0	24.9	30.5	28.3	40
5.4	5.2	5.4	23.2	23.6	24.2	6.4	6.8	6.7	37.6	36.7	38.3	43.8	45.7	46.8	41
3.0	2.9	3.0	8.7	9.1	9.3	3.1	3.2	3.1	7.9	8.5	8.2	11.1	13.2	12.7	42
25.4	26.2	27.3	98.4	105.8	106.2	18.5	19.9	19.9	81.8	92.2	88.8	111.2	114.4	118.8	43
9.4	10.1	10.6	43.8	46.7	47.1	9.4	10.0	10.1	38.0	40.0	39.9	38.5	40.2	40.6	44
427.6	420.3	(*)	1,436.5	1,437.3	(*)	578.8	587.4	(*)	1,494.9	1,524.0	(*)	1,237.0	1,337.8	(*)	45
15.4	14.7	(*)	64.2	66.3	(*)	14.5	14.9	(*)	62.3	63.8	(*)	88.3	95.1	(*)	46
4.7	4.7	(*)	21.1	21.9	(*)	3.6	3.7	(*)	15.6	16.4	(*)	21.7	20.4	(*)	47
27.6	27.2	(*)	112.4	112.5	(*)	21.4	22.2	(*)	90.8	92.4	(*)	83.7	91.2	(*)	48
1.4	1.4	(*)	8.2	8.6	(*)	1.0	1.0	(*)	6.3	6.1	(*)	6.6	7.3	(*)	49
10.3	10.0	(*)	60.6	60.8	(*)	14.3	14.9	(*)	60.2	60.4	(*)	35.8	36.8	(*)	50
34.9	33.3	(*)	223.8	227.1	(*)	45.6	46.7	(*)	174.8	185.3	(*)	165.7	182.4	(*)	51
456.0	450.4	(*)	1,361.5	1,356.4	(*)	580.8	590.6	(*)	1,371.5	1,408.4	(*)	1,024.6	1,135.8	(*)	52
314.3	308.3	(*)	935.8	930.7	(*)	479.3	484.0	(*)	1,040.9	1,063.2	(*)	731.6	815.7	(*)	53
279.4	275.0	(*)	712.0	703.7	(*)	433.7	437.3	(*)	866.3	878.1	(*)	565.9	633.2	(*)	54
257.8	253.4	(*)	617.4	607.4	(*)	414.6	417.5	(*)	770.5	778.5	(*)	494.5	554.0	(*)	55
2.9	2.8	(*)	15.1	15.2	(*)	2.4	2.5	(*)	15.3	15.1	(*)	20.6	21.7	(*)	56
13.2	12.9	(*)	77.3	77.9	(*)	15.8	16.6	(*)	70.7	71.6	(*)	55.3	55.9	(*)	57
3.5	3.5	(*)	15.9	16.2	(*)	2.2	2.3	(*)	16.0	17.3	(*)	19.9	21.0	(*)	58
14.3	14.3	(*)	56.9	57.0	(*)	14.9	15.1	(*)	47.6	46.6	(*)	45.8	48.6	(*)	59
4.0	3.9	(*)	21.3	21.8	(*)	5.4	5.6	(*)	19.6	20.2	(*)	28.6	30.3	(*)	60
17.4	17.4	(*)	75.5	76.9	(*)	16.4	17.1	(*)	77.6	80.0	(*)	48.9	55.3	(*)	61

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
1 NORTH CAROLINA	2,154.0	2,187.3	2,227.0	4.8	5.1	5.2	105.7	114.2	112.9	789.7	801.1	808.2
Asheville	65.8	69.3	68.2	(1)	(1)	(1)	3.2	3.4	3.4	21.5	21.9	21.8
Charlotte—Gastonia	294.3	297.2	300.6	(1)	(1)	(1)	14.5	15.2	14.7	84.3	85.2	84.9
Greensboro—Winston-Salem—High Pt	355.6	358.4	364.5	(1)	(1)	(1)	15.8	15.9	15.7	142.5	144.2	143.6
Raleigh—Durham	228.8	235.2	240.6	(1)	(1)	(1)	11.2	12.4	12.2	36.9	37.7	38.2
6 NORTH DAKOTA	226.5	231.7	234.0	3.5	3.9	4.1	19.3	21.0	20.1	15.7	15.5	16.2
Fargo—Moorhead	58.8	59.7	60.7	(3)	(3)	(3)	4.9	5.3	5.3	5.2	4.8	4.9
8 OHIO	4,281.4	4,341.1	4,373.5	30.5	31.0	31.1	179.9	193.0	193.0	1,365.3	1,364.6	1,385.3
Akron	260.4	262.3	262.9	.4	.4	.4	8.6	9.1	9.1	86.2	82.9	83.7
Canton	151.5	153.6	153.8	.9	1.0	1.0	6.3	7.0	6.8	56.4	56.0	56.7
Cincinnati	570.2	586.1	591.5	.5	.5	.5	26.8	28.3	28.7	163.7	169.6	170.7
Cleveland	887.2	907.5	900.6	1.5	1.6	1.6	32.0	34.2	34.3	273.4	276.4	279.0
Columbus	475.2	480.7	484.3	.8	.9	.9	21.0	22.6	22.4	100.8	99.6	101.0
Dayton	347.7	350.6	354.6	.4	.4	.4	14.2	15.8	16.0	110.3	108.1	110.8
Toledo	294.1	301.5	304.3	.6	.7	.7	12.4	13.2	12.9	89.9	90.7	91.4
Youngstown—Warren	213.3	210.6	215.4	.3	.3	.3	8.5	9.2	9.1	83.2	78.9	80.7
17 OKLAHOMA	988.4	1,034.1	1,040.4	50.3	55.1	54.6	51.6	59.9	58.1	164.6	171.1	169.6
Oklahoma City	341.6	368.4	372.9	11.7	13.8	13.9	18.7	25.7	25.5	44.2	47.9	48.0
Tulsa	258.7	268.4	266.8	16.0	16.9	16.8	14.1	15.9	15.6	54.5	55.7	55.1
20 OREGON	956.7	997.6	1,008.0	1.9	2.2	2.2	45.2	52.8	51.8	217.9	229.6	227.8
Eugene—Springfield	96.8	99.1	100.6	(1)	(1)	(1)	5.4	5.8	5.6	21.0	21.7	21.4
Jackson County	-	-	-	-	-	-	-	-	-	8.2	8.1	8.1
Portland	493.3	520.4	521.8	(1)	(1)	(1)	23.4	28.4	28.4	103.0	109.1	108.3
Salem	86.3	89.3	88.2	(1)	(1)	(1)	5.1	5.5	5.2	18.2	19.9	17.5
25 PENNSYLVANIA	4,586.1	4,647.8	4,644.3	49.4	47.7	47.7	199.1	209.1	204.8	3,350.8	3,370.3	3,370.9
Allentown—Bethlehem—Easton	261.8	264.8	265.0	(1)	(1)	(1)	10.4	10.0	10.1	108.0	108.1	108.4
Altoona	52.1	53.5	52.5	(1)	(1)	(1)	2.6	2.6	2.5	13.2	13.1	12.9
Delaware Valley ¹¹	1,522.8	1,537.9	1,540.1	(1)	(1)	(1)	55.9	58.1	57.2	380.9	380.5	381.9
Erie	112.6	113.8	113.7	(1)	(1)	(1)	3.6	4.2	4.0	43.7	44.5	43.7
Harrisburg	206.7	212.8	212.2	(1)	(1)	(1)	8.8	10.6	10.4	40.2	41.8	41.8
Johnstown	85.4	87.8	87.4	8.9	9.2	9.2	3.7	2.8	2.7	18.9	19.4	19.6
Lancaster	140.9	145.0	144.0	(1)	(1)	(1)	7.2	8.2	7.9	57.4	59.9	58.9
Northeast Pennsylvania	232.8	233.9	230.7	1.5	1.4	1.4	13.1	10.4	10.4	69.8	70.5	70.4
Philadelphia SMSA	1,824.4	1,856.4	1,859.2	(1)	(1)	(1)	66.8	71.0	69.9	447.8	450.7	452.1
Philadelphia City ¹²	794.8	807.3	807.8	(1)	(1)	(1)	17.3	18.3	18.4	155.8	154.6	155.6
Pittsburgh	917.9	931.6	928.5	12.0	11.6	11.5	48.5	52.4	51.4	249.5	250.8	250.4
Reading	133.5	134.8	137.4	(1)	(1)	(1)	5.2	5.6	5.6	52.1	52.5	53.3
Scranton ¹³	84.2	83.8	82.4	(1)	(1)	(1)	2.8	2.1	2.2	26.1	27.1	26.8
Wilkes-Barre—Hazleton ¹⁴	121.6	122.3	120.8	1.3	1.2	1.2	8.9	7.1	7.1	38.9	38.7	38.9
Williamsport	46.5	48.8	48.8	(1)	(1)	(1)	1.9	2.2	2.1	18.0	18.4	18.4
York	142.3	146.5	147.9	(1)	(1)	(1)	6.5	6.9	6.9	59.9	62.7	63.6
42 RHODE ISLAND	386.5	401.2	405.6	(1)	(1)	(1)	13.5	14.5	14.7	129.9	137.1	138.3
Providence—Warwick—Pawtucket	396.9	413.3	417.9	(1)	(1)	(1)	13.7	14.8	14.9	146.9	153.8	155.0
44 SOUTH CAROLINA	1,092.7	1,115.4	1,119.5	1.8	1.9	1.9	68.7	74.1	72.8	383.7	385.3	387.6
Charleston—North Charleston	131.8	132.7	133.3	(1)	(1)	(1)	10.6	10.1	9.7	18.3	18.3	18.7
Columbia	163.3	166.0	169.8	(1)	(1)	(1)	8.4	8.7	8.3	24.7	25.3	25.3
Greenville—Spartanburg	244.4	250.7	251.1	(1)	(1)	(1)	15.2	17.9	16.8	101.8	102.7	102.4
48 SOUTH DAKOTA	231.4	237.4	232.0	2.7	2.8	2.7	13.7	15.0	14.3	23.8	24.4	23.7
Rapid City	27.2	27.7	26.6	(3)	(3)	(3)	2.6	2.8	2.7	2.5	2.7	2.6
Sioux Falls	49.9	51.2	51.0	(3)	(3)	(3)	3.1	3.8	3.5	7.4	7.4	7.3
51 TENNESSEE	1,658.6	1,692.3	1,706.8	9.5	8.9	8.7	81.7	90.8	90.5	518.1	529.6	529.5
Chattanooga	162.3	163.3	163.7	1.1	1.2	1.2	5.7	6.1	5.9	56.2	55.2	55.1
Knoxville	184.9	187.8	187.2	1.6	1.7	1.6	12.0	11.6	11.4	52.1	52.9	53.2
Memphis	340.6	343.3	345.7	.2	.2	.2	14.7	13.4	13.3	61.4	63.9	63.8
Nashville—Davidson	331.0	338.2	341.9	(1)	(1)	(1)	17.7	20.9	20.4	81.3	82.7	83.0
56 TEXAS	4,921.5	5,109.4	5,157.0	158.8	174.0	171.9	347.0	369.9	361.4	906.5	989.2	953.8
Amarillo	69.4	71.8	71.8	(1)	(1)	(1)	4.7	5.6	5.4	8.5	9.0	9.1
Austin	200.6	210.3	212.3	(1)	(1)	(1)	11.3	13.3	13.2	22.9	26.0	26.1
Beaumont—Port Arthur—Orange	143.5	142.0	143.4	(1)	(1)	(1)	16.7	14.2	14.5	41.1	41.6	41.6
Corpus Christi	103.6	106.5	107.2	4.1	4.2	4.2	9.4	11.2	11.3	12.7	13.1	13.2
Dallas—Fort Worth	1,199.0	1,241.5	1,254.4	14.2	16.1	16.3	56.9	62.1	61.1	268.5	280.4	282.9
El Paso	140.8	143.0	143.8	(1)	(1)	(1)	8.3	8.7	8.5	28.0	28.6	28.5
Galveston—Texas City	70.2	73.6	73.0	(1)	(1)	(1)	4.8	5.5	5.6	11.9	11.9	11.9

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	
105.0	109.3	109.3	415.6	429.1	432.5	84.0	85.5	84.7	297.9	320.4	313.1	351.3	322.6	365.1	1
3.4	3.4	3.4	13.1	13.8	13.9	2.3	2.4	2.4	11.1	12.7	11.4	11.2	11.7	11.9	2
27.1	27.7	27.6	69.8	71.3	71.7	18.5	18.8	18.7	44.2	46.7	46.1	35.9	32.3	36.9	3
20.0	21.0	21.2	70.7	71.9	72.3	16.2	16.7	16.4	49.9	52.5	52.9	40.5	36.2	42.4	4
10.8	11.6	11.6	46.3	47.2	47.7	13.7	14.0	13.8	48.1	50.8	49.9	61.8	61.5	67.2	5
14.1	15.0	15.1	63.5	66.4	65.6	10.0	10.7	10.6	42.9	44.5	44.7	57.5	54.7	57.6	6
3.7	3.9	3.9	18.7	19.8	19.9	3.4	3.6	3.6	11.6	12.1	12.0	11.3	10.2	11.1	7
221.2	222.3	223.1	933.3	957.9	961.9	186.9	193.9	193.8	743.7	771.2	774.6	620.6	607.2	610.6	8
14.2	13.8	13.9	58.3	60.8	61.2	9.1	9.4	9.4	46.1	48.9	47.9	37.6	37.1	37.5	9
7.2	7.2	7.1	32.7	33.8	33.8	5.7	5.9	5.9	25.2	25.8	26.0	17.1	16.9	16.4	10
32.4	33.9	34.3	131.8	134.0	135.3	29.9	30.3	30.3	107.0	113.3	113.1	78.1	76.1	78.7	11
45.8	47.9	47.7	204.2	207.8	209.1	45.5	46.3	46.3	168.2	174.9	176.7	116.4	118.2	105.8	12
23.5	24.3	24.5	113.6	115.5	117.3	32.0	33.7	33.5	90.9	93.6	94.6	92.7	90.4	90.2	13
12.5	13.3	13.3	72.5	74.2	74.8	12.1	12.6	12.5	62.6	65.1	65.6	63.2	61.1	61.3	14
20.0	20.6	20.8	67.3	69.5	69.6	9.9	10.6	10.5	54.1	57.5	57.5	39.9	38.7	40.8	15
9.9	10.0	10.1	44.8	46.3	46.4	6.9	7.0	7.0	35.3	35.9	36.5	24.3	22.9	25.3	16
59.7	61.6	61.4	235.6	244.5	246.3	49.7	52.1	51.6	161.7	175.6	175.7	215.2	214.2	223.1	17
20.6	21.2	21.3	85.5	88.2	89.0	21.7	23.3	23.2	57.4	62.6	62.9	81.8	85.7	89.1	18
19.5	20.0	19.9	63.4	64.8	64.3	13.4	13.8	13.7	50.5	53.5	53.4	27.3	27.8	28.0	19
54.8	57.5	58.3	231.9	240.4	243.4	58.5	63.0	62.7	165.9	173.4	173.8	180.6	178.7	188.0	20
4.9	5.1	5.1	24.2	24.2	24.5	4.8	4.9	4.9	16.8	17.6	17.7	19.7	19.8	21.4	21
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
32.6	34.3	34.5	126.6	134.2	134.8	38.0	40.2	40.0	95.7	101.4	101.3	74.0	72.8	74.5	23
3.0	3.2	3.3	17.1	17.5	17.7	4.9	5.1	5.1	12.8	12.4	12.9	25.2	25.7	26.5	24
261.1	255.1	259.2	927.8	930.5	934.5	218.4	227.4	226.0	872.9	884.8	890.6	706.6	722.9	710.6	25
12.6	13.4	13.4	45.9	46.9	46.8	7.9	8.1	8.1	39.6	40.5	40.8	37.4	37.8	37.4	26
8.2	8.2	8.2	11.5	11.6	11.6	1.4	1.4	1.4	8.1	8.3	8.2	7.1	8.3	7.7	27
82.3	81.2	83.1	320.7	317.0	321.3	99.2	101.1	101.0	349.1	355.3	360.6	234.7	244.7	235.0	28
5.3	5.2	5.3	21.7	22.1	22.1	4.5	4.7	4.7	19.7	19.7	19.6	14.1	13.4	14.3	29
15.2	15.1	15.0	40.7	41.2	40.9	11.5	12.0	11.9	36.2	37.2	36.5	54.1	54.9	55.7	30
5.5	5.5	5.6	16.1	16.3	16.1	3.6	3.9	3.8	14.9	15.3	15.3	13.8	15.4	15.1	31
6.3	6.6	6.6	30.7	30.4	30.3	4.4	4.6	4.6	21.7	21.9	21.9	13.2	13.4	13.8	32
12.7	12.8	12.9	48.6	48.0	48.5	8.9	9.2	9.2	40.4	41.1	40.1	37.8	40.5	37.8	33
97.4	95.9	97.8	400.8	399.2	404.5	113.6	116.8	116.5	406.1	417.9	422.7	291.9	304.9	295.7	34
55.9	54.8	54.9	153.1	152.6	154.6	65.6	67.3	67.0	197.9	198.5	204.3	149.2	161.2	153.0	35
57.4	56.1	56.1	197.4	204.8	204.3	42.0	43.1	42.9	188.4	185.3	185.5	122.7	127.5	126.4	36
6.3	5.9	6.4	24.9	24.9	25.1	5.3	5.8	5.7	21.5	22.3	22.1	18.2	17.8	19.2	37
4.5	4.4	4.4	18.7	17.9	18.1	3.3	3.4	3.4	16.0	16.2	16.0	12.8	12.7	11.5	38
6.2	6.5	6.6	25.2	25.2	25.7	4.7	4.9	4.9	17.6	17.2	17.0	18.8	21.5	19.4	39
2.3	2.4	2.4	9.1	10.1	10.3	1.8	1.9	2.0	7.8	7.6	7.7	5.6	6.2	5.9	40
6.6	6.6	6.8	30.1	30.9	30.9	3.6	3.9	3.9	19.1	19.3	19.2	16.5	16.2	16.6	41
13.6	13.5	13.6	78.5	81.2	81.2	19.4	20.1	20.2	73.1	75.0	77.3	58.5	59.8	60.3	42
13.4	13.4	13.5	78.1	81.6	81.8	19.3	20.4	20.5	70.3	72.5	74.8	55.2	56.8	57.4	43
46.1	49.1	49.3	203.8	210.8	210.7	41.5	44.6	44.4	137.6	143.0	141.1	209.5	206.6	211.7	44
8.1	8.5	8.7	28.4	28.5	28.5	5.6	6.0	6.0	20.1	20.4	20.6	40.7	40.9	41.1	45
8.4	9.0	8.9	34.6	35.7	36.0	12.2	13.2	13.3	24.7	24.6	25.4	50.3	49.5	52.6	46
9.6	9.7	9.8	46.2	47.5	47.5	8.7	9.1	9.2	31.8	32.7	33.1	31.1	31.1	32.3	47
12.6	12.4	12.8	63.7	65.4	62.8	10.3	10.6	10.6	49.4	52.0	50.7	55.2	54.8	54.4	48
1.8	1.8	1.9	7.9	8.0	7.6	1.3	1.3	1.2	5.9	6.2	5.9	5.2	4.9	4.7	49
3.9	3.9	3.9	15.6	15.8	15.8	2.8	2.9	2.9	11.0	11.0	11.4	6.1	6.4	6.2	50
79.1	81.6	81.8	352.5	363.4	366.4	71.2	72.3	71.5	255.3	256.6	255.0	291.2	289.1	303.4	51
6.4	6.3	6.3	29.7	30.1	29.9	8.4	8.6	8.6	25.6	25.9	25.7	29.2	29.9	31.0	52
7.6	7.6	7.7	37.7	37.8	38.1	6.9	7.0	7.0	27.8	27.7	27.8	39.2	41.5	40.4	53
23.4	25.0	25.0	90.1	91.2	91.4	18.8	19.1	19.0	66.9	67.6	67.5	65.1	62.9	65.5	54
17.8	18.7	18.7	74.6	75.3	76.6	19.7	19.8	19.8	60.3	60.6	61.3	59.6	60.2	62.1	55
313.2	331.6	331.6	1,208.2	1,251.7	1,256.4	275.1	291.3	290.1	850.3	885.2	890.9	862.4	856.5	900.9	56
6.8	6.9	6.9	20.8	21.4	21.2	3.5	3.6	3.6	13.3	13.6	13.4	11.8	11.7	12.2	57
6.4	6.7	6.7	42.1	43.7	44.0	11.7	12.8	12.8	33.4	34.8	35.0	72.8	73.0	74.5	58
10.9	11.5	11.6	29.4	29.6	29.4	5.0	5.4	5.4	22.0	21.9	22.0	18.4	17.8	18.9	59
6.1	6.4	6.2	25.4	26.0	25.7	5.2	5.6	5.6	17.2	17.6	17.5	23.5	22.4	23.5	60
79.4	84.4	84.6	320.9	332.5	332.9	90.3	95.5	95.2	208.7	219.0	219.7	160.1	151.5	161.7	61
9.3	9.3	9.2	35.9	36.3	36.4	6.8	7.2	7.1	24.9	24.9	24.9	27.6	28.0	29.2	62
7.4	7.4	7.4	12.6	13.7	13.5	4.6	5.0	5.0	10.4	11.4	11.1	18.5	18.7	18.5	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		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
TEXAS—Continued												
1 Houston	1,181.6	1,246.9	1,244.1	51.4	52.9	52.2	129.9	143.3	140.5	193.9	204.6	204.6
2 Lubbock	84.6	84.1	86.4	(1)	(1)	(1)	5.2	5.7	5.3	13.8	13.6	13.7
3 San Antonio	343.9	354.9	356.2	1.8	1.8	1.8	22.1	25.0	24.3	42.6	45.6	45.5
4 Waco	64.7	66.1	66.4	(1)	(1)	(1)	3.3	4.1	4.0	15.9	16.1	16.0
5 Wichita Falls	48.2	48.9	49.6	2.5	2.6	2.6	2.5	2.6	2.6	8.4	9.2	9.2
6 UTAH	499.9	524.3	529.9	16.0	16.8	16.8	36.3	38.9	38.9	76.9	80.8	81.5
7 Salt Lake City—Ogden	357.2	374.8	378.2	7.1	7.5	7.4	24.9	26.7	26.5	51.5	54.2	54.3
8 VERMONT	181.5	186.5	188.4	.8	.7	.7	9.6	9.9	9.6	44.2	48.3	48.3
9 Burlington ¹³	47.3	49.8	50.3	-	-	-	-	-	-	10.9	12.7	12.6
10 Springfield ¹⁵	13.2	14.1	14.1	-	-	-	-	-	-	5.5	6.0	6.0
11 VIRGINIA	1,943.1	2,014.8	2,017.7	22.9	19.7	15.8	121.1	130.7	128.2	405.9	410.9	412.0
12 Bristol	24.7	25.9	25.9	(1)	(1)	(1)	1.0	1.2	1.3	8.5	8.9	9.1
13 Lynchburg	64.1	65.8	65.9	(1)	(1)	(1)	3.0	3.8	3.6	28.2	28.6	28.6
14 Newport News—Hampton	136.8	143.0	140.4	(1)	(1)	(1)	5.9	7.0	7.0	35.1	33.8	33.1
15 Norfolk—Virginia Beach—Portsmouth	262.0	268.0	269.3	(1)	(1)	(1)	17.1	18.7	18.3	28.5	29.1	29.1
16 Northern Virginia ¹⁶	379.6	399.0	396.9	.4	.4	.4	27.2	28.6	27.7	14.3	15.1	15.1
17 Petersburg-Colonial Heights-Hopewell	44.5	44.0	44.3	(1)	(1)	(1)	2.3	2.2	2.1	12.4	12.3	12.3
18 Richmond	300.0	311.5	311.0	.3	.4	.4	18.3	19.2	18.8	52.5	54.3	54.3
19 Roanoke	99.7	99.7	99.5	.2	.2	.2	6.0	6.1	6.0	21.3	21.5	21.5
20 WASHINGTON	1,387.6	1,466.2	(*)	2.2	2.4	(*)	82.6	93.6	(*)	279.3	294.0	(*)
21 Seattle—Everett	647.3	697.6	(*)	(1)	(1)	(*)	35.2	42.9	(*)	134.2	150.6	(*)
22 Spokane	113.5	118.9	(*)	(1)	(1)	(*)	6.5	8.3	(*)	16.0	16.9	(*)
23 Tacoma	125.8	129.5	(*)	(1)	(1)	(*)	7.2	7.7	(*)	21.1	21.2	(*)
24 WEST VIRGINIA	627.6	613.6	(*)	74.6	67.3	(*)	40.2	39.5	(*)	127.8	125.1	(*)
25 Charleston	109.2	108.1	(*)	6.6	6.7	(*)	8.5	7.5	(*)	19.6	19.4	(*)
26 Huntington—Ashland	100.6	99.8	(*)	1.0	.6	(*)	6.6	6.2	(*)	29.0	28.6	(*)
27 Parkersburg—Marietta	54.1	54.1	(*)	.5	.5	(*)	3.2	3.1	(*)	17.0	17.0	(*)
28 Wheeling	65.6	65.5	(*)	7.3	7.1	(*)	3.8	3.7	(*)	14.4	14.0	(*)
29 WISCONSIN	1,822.2	1,897.2	1,917.5	2.7	2.7	2.7	83.2	99.7	100.3	542.1	565.0	567.1
30 Appleton—Oshkosh	113.5	117.1	117.7	(1)	(1)	(1)	5.5	5.6	5.7	44.9	47.6	47.3
31 Eau Claire	41.1	41.3	42.1	(1)	(1)	(1)	1.8	1.7	1.6	8.6	8.8	8.7
32 Green Bay	71.5	72.9	73.2	(1)	(1)	(1)	3.6	3.9	3.8	21.3	22.1	21.6
33 Kenosha	40.2	42.1	42.6	(1)	(1)	(1)	1.3	1.4	1.3	15.8	17.9	18.0
34 La Crosse	40.1	40.0	40.7	(1)	(1)	(1)	2.0	1.9	2.0	10.1	10.5	10.5
35 Madison	152.0	153.0	157.3	(1)	(1)	(1)	7.8	8.2	8.0	18.8	19.2	18.8
36 Milwaukee	614.7	634.6	642.9	(1)	(1)	(1)	23.4	26.0	26.5	197.0	207.5	209.0
37 Racine	66.6	68.3	69.5	(1)	(1)	(1)	2.7	3.0	3.0	28.2	28.9	29.7
38 WYOMING	176.2	188.7	188.1	26.2	29.6	29.7	18.7	20.2	20.4	9.1	9.4	9.3
39 Casper	30.9	35.1	34.9	5.9	7.2	7.0	3.2	4.0	3.8	1.7	1.8	1.8
40 Cheyenne	24.7	26.1	26.1	(1)	(1)	(1)	1.8	2.0	2.0	1.6	1.6	1.6

¹ Combined with services.
² Based on the 1967 Standard Industrial Classification Manual.
³ Combined with construction.
⁴ Revised to 1978 benchmark; not strictly comparable with previously published data.
⁵ Area included in Chicago—Gary Standard Consolidated Statistical Area.
⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
⁷ Subarea of New York—Northeastern New Jersey.
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 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.
¹² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

¹³ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.
¹⁴ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.
¹⁵ Total includes data for industry divisions not shown separately.
¹⁶ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities, and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.
 p=preliminary.
 * Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	
86.6	92.4	92.0	290.8	305.7	307.7	69.7	76.5	76.3	228.5	239.5	239.2	130.8	132.0	131.6	1
4.7	4.8	4.8	26.1	26.4	26.4	4.0	4.1	4.2	13.7	13.8	13.9	17.1	15.7	18.1	2
15.0	16.2	16.1	86.4	87.7	87.5	23.2	24.8	24.6	64.3	66.5	66.0	88.5	87.3	90.4	3
3.2	3.2	3.2	14.9	15.2	15.4	3.6	3.9	3.8	13.0	12.4	13.1	10.8	11.2	10.9	4
2.5	2.5	2.5	12.3	12.4	12.5	2.2	2.3	2.3	7.3	7.5	7.5	10.5	9.8	10.4	5
30.4	32.6	32.6	122.5	128.0	129.5	22.7	24.8	24.8	84.2	89.8	89.8	110.9	112.7	116.0	6
24.2	25.6	25.8	90.0	94.7	95.9	18.9	20.3	20.3	58.6	63.2	63.2	82.0	82.7	84.8	7
8.5	8.7	8.7	38.4	39.6	39.9	7.1	7.5	7.5	41.0	42.0	41.6	32.1	29.9	32.3	8
2.2	2.2	2.2	10.2	10.4	10.9	-	-	-	10.3	10.6	10.8	-	-	-	9
.7	.8	.8	2.2	2.3	2.3	-	-	-	2.4	2.7	2.6	-	-	-	10
107.8	104.4	104.2	404.0	418.8	419.7	91.2	94.8	94.2	331.9	351.5	348.7	458.3	484.0	494.9	11
.9	.8	.8	6.0	6.0	6.0	.8	.9	.9	3.1	3.1	3.0	4.4	5.0	4.8	12
2.6	2.4	2.3	10.4	10.6	10.8	2.8	2.9	2.9	8.6	8.6	8.7	8.2	8.9	9.0	13
4.5	5.0	4.9	24.6	26.0	25.9	4.3	4.6	4.6	24.8	27.8	26.9	37.6	38.8	38.0	14
17.9	16.7	16.6	63.5	65.7	65.5	13.0	13.4	13.1	46.4	47.4	47.3	75.6	77.0	79.4	15
26.8	28.0	27.6	90.0	95.2	95.6	24.0	25.8	25.6	88.4	94.8	94.0	108.5	111.1	110.9	16
1.3	1.3	1.4	8.3	8.3	8.1	1.1	1.2	1.1	5.1	5.2	5.2	14.0	13.5	14.1	17
18.1	18.6	18.7	68.5	70.1	70.0	23.0	23.3	23.5	51.7	53.3	52.0	67.6	72.3	73.3	18
9.9	6.9	6.8	23.5	24.4	24.5	5.4	5.8	5.8	18.0	17.8	18.1	15.4	17.0	16.6	19
79.6	84.1	(*)	340.6	364.8	(*)	77.0	83.5	(*)	255.0	274.3	(*)	271.3	269.5	(*)	20
45.4	46.7	(*)	158.9	171.7	(*)	45.4	48.7	(*)	120.8	131.7	(*)	107.4	105.3	(*)	21
7.7	8.3	(*)	32.2	33.6	(*)	7.3	8.1	(*)	25.5	26.1	(*)	18.3	17.6	(*)	22
5.9	6.3	(*)	30.0	31.7	(*)	6.3	6.5	(*)	27.3	27.6	(*)	28.0	28.5	(*)	23
41.3	39.1	(*)	123.1	123.6	(*)	19.7	20.2	(*)	87.5	88.1	(*)	113.4	110.7	(*)	24
9.0	9.2	(*)	24.3	24.2	(*)	4.6	4.7	(*)	18.2	18.1	(*)	18.4	18.3	(*)	25
9.4	9.1	(*)	20.5	20.7	(*)	3.6	3.6	(*)	14.1	13.9	(*)	16.4	17.0	(*)	26
2.4	2.5	(*)	11.4	11.6	(*)	1.8	1.9	(*)	8.2	8.1	(*)	9.7	9.6	(*)	27
3.6	3.7	(*)	14.2	14.7	(*)	2.4	2.4	(*)	12.6	12.6	(*)	7.4	7.3	(*)	28
86.5	85.9	89.1	414.3	436.2	435.9	79.8	85.3	84.1	327.9	346.2	343.6	285.7	276.1	294.6	29
4.0	3.9	4.0	23.0	23.2	23.8	4.3	4.5	4.5	17.6	18.3	18.2	14.2	13.9	14.2	30
2.4	2.4	2.4	10.4	10.8	10.7	1.4	1.4	1.4	8.0	8.3	8.2	8.6	7.9	9.1	31
4.4	4.3	4.4	17.0	17.3	17.3	2.4	2.7	2.6	13.1	13.0	13.3	9.6	9.7	10.1	32
1.6	1.5	1.6	7.7	8.1	8.0	.8	.9	.9	7.1	7.2	7.3	5.8	5.2	5.5	33
2.1	2.2	2.2	10.7	10.7	11.2	.9	.9	.9	8.2	8.6	8.6	6.1	5.3	5.4	34
5.3	5.2	5.4	32.7	34.3	34.8	10.3	11.4	11.2	25.2	25.3	25.7	52.0	49.5	53.4	35
31.7	31.7	33.0	135.2	139.0	139.2	32.2	33.4	33.2	123.0	126.4	127.9	72.2	70.6	74.1	36
2.6	2.5	2.7	12.3	12.4	12.7	2.0	2.3	2.3	10.4	10.6	10.6	8.4	8.6	8.5	37
13.5	14.3	14.3	39.5	43.6	42.2	5.6	6.2	6.1	25.3	29.1	26.7	38.3	36.3	39.4	38
2.1	2.3	2.3	8.0	9.3	9.8	1.3	1.3	1.3	4.4	4.7	4.4	4.3	4.5	4.5	39
3.4	3.7	3.7	5.9	6.6	6.5	1.4	1.5	1.4	4.0	4.5	4.2	6.6	6.2	6.7	40

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	TOTAL PRIVATE	\$193.14	\$194.58	\$206.70	\$208.58	\$210.37	\$5.35	\$5.39	\$5.71	\$5.81	\$5.86
-	MINING	314.43	317.02	338.09	343.01	348.48	7.13	7.14	7.79	7.94	7.92
10	METAL MINING	302.30	305.83	343.10	354.43	-	7.52	7.57	8.43	8.52	-
101	Iron ores	324.38	326.16	361.96	371.85	-	7.44	7.55	8.68	8.77	-
102	Copper ores	292.39	297.04	341.75	362.34	-	7.86	7.90	8.63	8.71	-
11, 12	COAL MINING	367.14	371.76	388.97	391.84	-	8.44	8.43	9.70	9.87	-
12	BITUMINOUS COAL AND LIGNITE MINING	368.01	372.65	391.15	393.03	-	8.40	8.45	9.73	9.90	-
13	OIL AND GAS EXTRACTION	290.50	294.45	315.70	322.20	-	6.47	6.50	7.00	7.16	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	302.43	300.66	328.02	343.18	-	7.27	7.28	8.02	8.21	-
138	Oil and gas field services	284.43	291.22	310.67	313.45	-	6.13	6.17	6.61	6.77	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	270.89	272.40	298.53	298.64	-	5.98	6.00	6.42	6.45	-
142	Crushed and broken stone	264.36	269.56	299.08	300.48	-	5.81	5.86	6.27	6.26	-
-	CONSTRUCTION	303.14	308.39	330.49	332.63	336.04	8.26	8.29	8.72	8.87	8.89
15	GENERAL BUILDING CONTRACTORS	282.05	284.46	295.93	295.35	-	7.77	7.73	8.13	8.25	-
152	Residential building construction	267.16	269.37	279.72	277.89	-	7.38	7.30	7.77	7.85	-
153	Operative builders	248.47	247.38	262.17	261.99	-	6.96	6.91	7.01	7.10	-
154	Nonresidential building construction	305.51	306.81	321.63	321.65	-	8.37	8.36	8.74	8.91	-
16	HEAVY CONSTRUCTION CONTRACTORS	295.29	309.25	339.87	344.86	-	7.65	7.77	8.17	8.35	-
161	Highway and street construction	292.80	310.67	341.85	340.69	-	7.32	7.45	7.84	7.96	-
162	Heavy construction, except highway	297.14	308.44	339.80	347.04	-	7.84	7.97	8.39	8.59	-
17	SPECIAL TRADE CONTRACTORS	318.40	320.89	345.77	347.76	-	8.82	8.84	9.32	9.45	-
171	Plumbing, heating, air conditioning	336.93	336.55	360.81	368.63	-	8.89	8.88	9.52	9.65	-
172	Painting, paper hanging, decorating	282.35	282.20	312.99	313.80	-	8.28	8.30	8.67	8.79	-
173	Electrical work	368.86	371.95	400.51	403.01	-	9.81	9.84	10.43	10.55	-
174	Masonry, stonework, and plastering	292.90	292.03	320.72	318.64	-	8.64	8.64	9.06	9.13	-
175	Carpentering and flooring	261.21	277.64	296.78	302.87	-	7.66	7.91	8.29	8.46	-
176	Roofing and sheet metal work	252.53	263.09	280.57	277.05	-	7.77	7.83	8.18	8.27	-
-	MANUFACTURING	235.65	236.29	248.86	256.55	257.00	5.79	5.82	6.16	6.28	6.33
24, 25, 32-39	DURABLE GOODS	255.85	256.89	268.71	277.79	279.86	6.18	6.22	6.57	6.71	6.76
20-23, 28-31	NONDURABLE GOODS	205.92	206.32	220.18	223.68	223.18	5.20	5.21	5.56	5.62	5.65
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	212.22	212.50	226.63	230.17	229.77	5.24	5.26	5.68	5.74	5.73
241	Logging camps and logging contractors	272.53	275.26	295.47	306.82	-	6.97	7.04	7.35	7.52	-
242	Sawmills and planing mills	224.80	226.04	239.90	242.90	-	5.43	5.46	5.88	5.91	-
2421	Sawmills and planing mills, general	237.12	238.21	254.41	256.47	-	5.70	5.74	6.19	6.21	-
2426	Hardwood dimension and flooring	150.63	151.03	160.80	163.62	-	3.71	3.72	4.00	4.04	-
243	Millwork, plywood, and structural members	206.85	207.03	221.13	222.72	-	5.12	5.15	5.57	5.61	-
2431	Millwork	196.80	195.82	213.30	213.70	-	4.92	4.92	5.40	5.41	-
2434	Wood kitchen cabinets	180.89	181.27	198.07	201.28	-	4.65	4.66	5.04	5.07	-
2435	Hardwood veneer and plywood	175.12	175.12	177.75	177.58	-	4.23	4.23	4.50	4.53	-
2436	Softwood veneer and plywood	268.16	271.05	284.62	286.00	-	6.40	6.50	7.08	7.15	-
244	Wooden containers	148.61	149.00	158.88	158.25	-	3.85	3.87	4.17	4.22	-
245	Wood buildings and mobile homes	191.97	189.67	204.72	204.44	-	4.74	4.73	5.29	5.31	-
2451	Mobile homes	191.75	188.97	201.17	200.11	-	4.77	4.76	5.28	5.28	-
249	Miscellaneous wood products	173.26	174.99	185.00	187.60	-	4.31	4.31	4.66	4.69	-
25	FURNITURE AND FIXTURES	175.87	178.04	186.44	187.54	188.73	4.43	4.44	4.72	4.76	4.79
251	Household furniture	163.51	165.59	174.00	175.17	-	4.15	4.15	4.45	4.48	-
2511	Wood household furniture	151.22	154.66	163.15	162.29	-	3.79	3.80	4.12	4.14	-
2512	Upholstered household furniture	172.42	173.76	181.45	184.89	-	4.49	4.49	4.75	4.79	-
2514	Metal household furniture	171.83	171.00	175.41	176.79	-	4.35	4.34	4.58	4.58	-
2515	Mattresses and bedspreads	194.00	191.52	200.88	202.18	-	4.85	4.80	5.06	5.08	-
252	Office furniture	198.45	206.75	207.77	208.24	-	4.90	4.97	5.13	5.18	-
253	Public building and related furniture	197.29	203.21	207.56	213.72	-	4.92	5.03	5.05	5.20	-
254	Partitions and fixtures	216.94	217.48	224.00	229.88	-	5.41	5.41	5.60	5.69	-
259	Miscellaneous furniture and fixtures	191.97	195.43	208.35	205.93	-	4.74	4.79	5.17	5.24	-

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept., 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept., 1978 ^P	Oct. 1978 ^P
	TOTAL PRIVATE	36.1	36.1	36.2	35.9	35.9					
-	MINING	44.1	44.4	43.4	43.2	44.0					
10	METAL MINING	40.2	40.4	40.7	41.6	-	-	-	-	-	-
101	Iron ores	43.6	43.2	41.7	42.4	-	-	-	-	-	
102	Copper ores	37.2	37.6	39.6	41.6	-	-	-	-	-	
11, 12	COAL MINING	43.5	44.1	40.1	39.7	-	-	-	-	-	
12	BITUMINOUS COAL AND LIGNITE MINING	43.5	44.1	40.2	39.7	-	-	-	-	-	
13	OIL AND GAS EXTRACTION	44.9	45.3	45.1	45.0						
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.6	41.3	40.9	41.8	-	-	-	-	-	
138	Oil and gas field services	46.4	47.2	47.0	46.3	-	-	-	-	-	
14	NONMETALLIC MINERALS, EXCEPT FUELS	45.3	45.4	46.5	46.3	-	-	-	-	-	
142	Crushed and broken stone	45.5	46.0	47.7	48.0	-	-	-	-	-	
-	CONSTRUCTION	36.7	37.2	37.9	37.5	37.8					
15	GENERAL BUILDING CONTRACTORS	36.3	36.8	36.4	35.8	-	-	-	-	-	
152	Residential building construction	36.2	36.9	36.0	35.4	-	-	-	-	-	
153	Operative builders	35.7	35.8	37.4	36.9	-	-	-	-	-	
154	Nonresidential building construction	36.5	36.7	36.8	36.1	-	-	-	-	-	
16	HEAVY CONSTRUCTION CONTRACTORS	38.6	39.8	41.6	41.3	-	-	-	-	-	
161	Highway and street construction	40.0	41.7	43.6	42.8	-	-	-	-	-	
162	Heavy construction, except highway	37.9	38.7	40.5	40.4	-	-	-	-	-	
17	SPECIAL TRADE CONTRACTORS	36.1	36.3	37.1	36.8	-	-	-	-	-	
171	Plumbing, heating, air conditioning	37.9	37.9	37.9	38.2	-	-	-	-	-	
172	Painting, paper hanging, decorating	34.1	34.0	36.1	35.7	-	-	-	-	-	
173	Electrical work	37.6	37.8	38.4	38.2	-	-	-	-	-	
174	Masonry, stonework, and plastering	33.9	33.8	35.4	34.9	-	-	-	-	-	
175	Carpentering and flooring	34.1	35.1	35.8	35.8	-	-	-	-	-	
176	Roofing and sheet metal work	32.5	33.6	34.3	33.5	-	-	-	-	-	
-	MANUFACTURING	40.7	40.6	40.4	40.8	40.6	3.8	3.7	3.6	3.9	
24, 25, 32-39	DURABLE GOODS	41.4	41.3	40.9	41.4	41.4	4.0	4.0	3.7	4.2	
20-23, 26-31	NONDURABLE GOODS	39.6	39.6	39.6	39.8	39.5	3.5	3.3	3.4	3.4	
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	40.5	40.4	39.9	40.1	40.1	4.1	4.0	3.9	3.9	
241	Logging camps and logging contractors	39.1	39.1	40.2	40.8	-	4.1	4.5	4.7	4.9	
242	Sawmills and planing mills	41.4	41.4	40.8	41.1	-	4.9	4.7	4.8	4.7	
2421	Sawmills and planing mills, general	41.6	41.5	41.1	41.3	-	5.1	4.9	5.0	4.9	
2426	Hardwood dimension and flooring	40.6	40.6	40.2	40.5	-	4.1	3.9	4.0	3.8	
243	Millwork, plywood, and structural members	40.4	40.2	39.7	39.7	-	3.9	3.6	3.3	3.4	
2431	Millwork	40.0	39.8	39.5	39.5	-	3.2	2.7	2.5	2.7	
2434	Wood kitchen cabinets	38.9	38.9	39.3	39.7	-	3.1	2.9	2.6	2.6	
2435	Hardwood veneer and plywood	41.4	41.4	39.5	39.2	-	4.4	4.4	3.8	3.8	
2436	Softwood veneer and plywood	41.9	41.7	40.2	40.0	-	5.3	5.3	4.8	4.9	
244	Wooden containers	38.6	38.5	38.1	37.5	-	3.1	3.1	3.0	3.1	
245	Wood buildings and mobile homes	40.5	40.1	38.7	38.5	-	3.4	2.9	2.8	2.7	
2451	Mobile homes	40.2	39.7	38.1	37.9	-	3.3	2.8	2.1	2.0	
249	Miscellaneous wood products	40.2	40.6	39.7	40.0	-	3.7	3.7	3.3	3.7	
25	FURNITURE AND FIXTURES	39.7	40.1	39.5	39.4	39.4	3.0	3.0	2.8	2.9	
251	Household furniture	39.4	39.9	39.1	39.1	-	2.9	3.0	2.7	2.8	
2511	Wood household furniture	39.9	40.7	39.6	39.2	-	3.4	3.6	3.3	3.3	
2512	Upholstered household furniture	38.4	38.7	38.2	38.6	-	2.1	2.3	1.7	2.1	
2514	Metal household furniture	39.5	39.4	38.3	38.6	-	2.3	1.8	1.5	1.6	
2515	Mattresses and bedsprings	40.0	39.9	39.7	39.8	-	4.1	3.5	3.7	4.1	
252	Office furniture	40.5	41.6	40.5	40.2	-	3.1	3.2	2.7	2.6	
253	Public building and related furniture	40.1	40.4	41.1	41.1	-	3.4	3.6	3.1	3.1	
254	Partitions and fixtures	40.1	40.2	40.0	40.4	-	3.4	3.3	3.3	3.7	
259	Miscellaneous furniture and fixtures	40.5	40.8	40.3	39.3	-	2.2	2.3	2.8	2.6	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	\$244.08	\$246.51	\$269.44	\$271.97	\$275.83	\$5.91	\$5.94	\$6.40	\$6.46	\$6.49
321	Flat glass	328.38	327.38	343.80	354.34	—	7.33	7.39	7.94	8.09	—
322	Glass and glassware, pressed or blown	228.46	235.07	270.28	272.16	—	6.06	6.09	6.69	6.72	—
3221	Glass containers	229.68	238.88	286.71	285.71	—	6.38	6.37	7.01	7.02	—
3229	Pressed and blown glass, nec	226.97	229.37	246.54	252.63	—	5.66	5.72	6.21	6.30	—
323	Products of purchased glass	246.86	261.14	255.19	262.70	—	5.92	6.13	6.27	6.33	—
324	Cement, hydraulic	341.46	341.82	370.02	382.02	—	8.13	8.10	8.81	9.01	—
325	Structural clay products	198.31	196.52	208.28	214.54	—	4.79	4.77	5.13	5.22	—
326	Pottery and related products	192.46	194.13	200.85	203.84	—	4.86	4.89	5.19	5.24	—
327	Concrete, gypsum, and plaster products	259.86	261.16	285.44	284.24	—	5.96	5.99	6.40	6.46	—
3271	Concrete block and brick	239.23	239.32	264.94	266.54	—	5.34	5.39	5.81	5.91	—
3272	Concrete products, nec	230.69	226.80	241.83	248.09	—	5.39	5.40	5.69	5.81	—
3273	Ready-mixed concrete	285.32	292.16	322.14	314.97	—	6.62	6.64	7.08	7.11	—
329	Misc. nonmetallic mineral products	242.36	242.36	267.34	270.73	—	5.84	5.84	6.32	6.37	—
3291	Abrasive products	230.20	229.31	251.10	251.69	—	5.67	5.69	6.20	6.23	—
3292	Asbestos products	270.07	239.95	286.01	288.63	—	6.31	6.16	6.53	6.62	—
33	PRIMARY METAL INDUSTRIES	317.82	315.95	347.36	356.17	358.28	7.64	7.65	8.31	8.44	8.49
331	Blast furnace and basic steel products	356.24	349.74	397.85	410.05	—	8.71	8.70	9.61	9.74	—
3312	Blast furnaces and steel mills	365.08	357.50	409.70	423.11	—	8.97	8.96	9.92	10.05	—
3317	Steel pipe and tubes	300.54	303.05	314.57	326.28	—	7.19	7.25	7.88	7.95	—
332	Iron and steel foundries	284.08	290.49	302.70	310.59	—	6.78	6.90	7.19	7.36	—
3321	Gray iron foundries	296.23	302.18	310.13	318.00	—	6.97	7.11	7.28	7.50	—
3322	Malleable iron foundries	292.44	299.71	309.20	317.97	—	7.15	7.31	7.73	7.89	—
3325	Steel foundries, nec	255.73	264.55	288.42	296.52	—	6.33	6.39	6.90	7.01	—
333	Primary nonferrous metals	336.42	342.98	364.59	363.17	—	8.01	8.07	8.66	8.73	—
3334	Primary aluminum	364.00	366.96	388.03	382.23	—	8.75	8.80	9.13	9.30	—
335	Nonferrous rolling and drawing	293.44	291.98	312.01	321.41	—	6.84	6.87	7.29	7.44	—
3351	Copper rolling and drawing	279.50	274.13	300.91	302.77	—	6.47	6.39	6.87	6.85	—
3353	Aluminum sheet, plate, and foil	344.43	344.29	372.70	389.73	—	8.01	8.12	8.79	8.98	—
3357	Nonferrous wire drawing and insulating	273.42	275.70	290.60	299.48	—	6.51	6.58	6.87	7.03	—
336	Nonferrous foundries	241.19	244.78	253.18	258.74	—	5.77	5.87	6.16	6.28	—
3361	Aluminum foundries	249.31	252.47	261.35	268.87	—	5.95	6.04	6.39	6.59	—
34	FABRICATED METAL PRODUCTS	247.61	249.26	259.72	265.74	264.42	6.01	6.05	6.35	6.45	6.47
341	Metal cans and shipping containers	328.19	325.30	365.72	363.15	—	7.51	7.41	8.20	8.31	—
3411	Metal cans	338.57	337.57	377.27	374.07	—	7.73	7.62	8.44	8.56	—
342	Cutlery, hand tools, and hardware	238.30	240.85	245.84	250.10	—	5.77	5.86	6.07	6.16	—
3423, 5	Hand and edge tools, and hand saws and blades	224.67	224.13	230.26	237.98	—	5.44	5.44	5.80	5.92	—
3429	Hardware, nec	250.69	256.06	260.99	263.40	—	6.07	6.20	6.35	6.44	—
343	Plumbing and heating, except electric	210.93	211.07	221.36	222.55	—	5.26	5.29	5.59	5.62	—
3432	Plumbing fittings and brass goods	198.18	197.34	215.72	216.70	—	5.03	5.06	5.42	5.50	—
3433	Heating equipment, except electric	208.68	207.43	217.23	221.13	—	5.14	5.16	5.57	5.57	—
344	Fabricated structural metal products	231.49	232.70	245.02	250.31	—	5.73	5.76	6.08	6.15	—
3441	Fabricated structural metal	240.20	236.40	261.17	263.22	—	6.02	6.00	6.37	6.42	—
3442	Metal doors, sash, and trim	180.14	179.29	191.97	195.32	—	4.47	4.46	4.86	4.92	—
3443	Fabricated plate work (boiler shops)	254.29	261.12	266.38	275.67	—	6.31	6.40	6.61	6.74	—
3444	Sheet metal work	238.79	241.40	248.85	252.57	—	5.94	5.99	6.30	6.33	—
3446	Architectural metal work	226.70	222.80	244.22	246.02	—	5.57	5.57	6.06	6.03	—
345	Screw machine products, bolts, etc.	243.24	243.53	254.58	259.37	—	5.67	5.69	5.99	6.06	—
3451	Screw machine products	227.37	227.38	237.02	239.55	—	5.30	5.35	5.63	5.69	—
3452	Bolts, nuts, rivets, and washers	258.69	259.46	273.05	279.71	—	6.03	6.02	6.35	6.43	—
346	Metal forgings and stampings	293.58	300.04	301.81	314.91	—	6.99	7.11	7.29	7.48	—
3462	Iron and steel forgings	320.61	326.04	331.85	340.43	—	7.67	7.80	7.92	8.01	—
3465	Automotive stampings	356.27	367.14	365.50	381.87	—	8.19	8.44	8.60	8.86	—
3469	Metal stampings, nec	219.78	220.17	227.93	234.93	—	5.40	5.37	5.67	5.73	—
347	Metal services, nec	202.69	202.37	206.34	209.96	—	4.98	4.96	5.12	5.21	—
3471	Plating and polishing	189.34	191.29	197.60	203.41	—	4.71	4.70	4.94	5.06	—
3479	Metal coating and allied services	233.10	229.34	228.93	226.80	—	5.59	5.58	5.57	5.60	—
348	Ordnance and accessories, nec	234.03	237.05	252.10	257.63	—	5.75	5.81	6.24	6.33	—
3483	Ammunition, exc. for small arms, nec	216.28	219.64	222.34	223.29	—	5.38	5.45	5.79	5.83	—
349	Misc. fabricated metal products	229.39	232.40	245.22	249.08	—	5.65	5.71	6.04	6.09	—
3494	Valves and pipe fittings	251.09	255.25	263.94	267.71	—	5.95	6.02	6.36	6.42	—
3496	Misc. fabricated wire products	198.97	200.59	211.47	214.67	—	5.05	5.04	5.30	5.34	—
35	MACHINERY, EXCEPT ELECTRICAL	267.32	270.26	280.38	290.34	290.64	6.38	6.45	6.74	6.88	6.92
351	Engines and turbines	332.32	329.95	333.27	344.77	—	7.57	7.62	8.05	8.17	—
3511	Turbines and turbine generator sets	286.71	285.71	299.09	316.01	—	7.01	7.02	7.44	7.56	—
3519	Internal combustion engines, nec	350.88	348.10	346.93	356.16	—	7.78	7.84	8.28	8.40	—
352	Farm and garden machinery	282.49	291.81	290.65	309.55	—	6.89	7.10	7.23	7.55	—
3523	Farm machinery and equipment	288.11	298.70	298.96	318.89	—	7.01	7.25	7.40	7.74	—
353	Construction and related machinery	283.56	290.09	305.23	312.91	—	6.80	6.94	7.25	7.38	—

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	41.3	41.5	42.1	42.1	42.5	4.9	5.0	5.2	5.2	
321	Flat glass	44.8	44.3	43.3	43.8	—	8.0	7.7	6.2	5.8	
322	Glass and glassware, pressed or blown	37.7	38.6	40.4	40.5	—	3.7	3.9	4.2	4.3	
3221	Glass containers	36.0	37.5	40.9	40.7	—	3.9	4.2	4.9	4.8	
3229	Pressed and blown glass, nec	40.1	40.1	39.7	40.1	—	3.4	3.4	3.3	3.5	
323	Products of purchased glass	41.7	42.6	40.7	41.5	—	5.0	6.6	3.8	4.3	
324	Cement, hydraulic	42.0	42.2	42.0	42.4	—	4.1	4.0	4.4	4.8	
325	Structural clay products	41.4	41.2	40.6	41.1	—	4.6	4.3	4.3	4.4	
326	Pottery and related products	39.6	39.7	38.7	38.9	—	2.7	2.9	2.5	2.6	
327	Concrete, gypsum, and plaster products	43.6	43.6	44.6	44.0	—	6.7	6.7	7.4	7.2	
3271	Concrete block and brick	44.8	44.4	45.6	45.1	—	7.5	7.3	8.0	7.9	
3272	Concrete products, nec	42.8	42.0	42.5	42.7	—	5.6	5.2	6.5	6.6	
3273	Ready-mixed concrete	43.1	44.0	45.5	44.3	—	6.9	7.4	7.8	7.2	
329	Misc. nonmetallic mineral products	41.5	41.5	42.3	42.5	—	4.1	3.9	4.6	4.7	
3291	Abrasive products	40.6	40.3	40.5	40.4	—	3.3	3.2	3.3	3.5	
3292	Asbestos products	42.8	42.2	43.8	43.6	—	4.7	4.2	5.3	5.4	
33	PRIMARY METAL INDUSTRIES	41.6	41.3	41.8	42.2	42.2	4.0	3.7	4.2	4.5	
331	Blast furnace and basic steel products	40.9	40.2	41.4	42.1	—	3.0	2.4	3.6	3.9	
3312	Blast furnaces and steel mills	40.7	39.9	41.3	42.1	—	2.9	2.2	3.6	3.9	
3317	Steel pipe and tubes	41.8	41.8	41.5	42.1	—	4.5	4.4	4.0	4.7	
332	Iron and steel foundries	41.9	42.1	42.1	42.2	—	5.2	5.2	4.8	5.0	
3321	Gray iron foundries	42.5	42.5	42.6	42.4	—	5.9	5.8	5.3	5.4	
3322	Malleable iron foundries	40.9	41.0	40.0	40.3	—	3.8	4.3	3.5	4.1	
3325	Steel foundries, nec	40.4	41.4	41.8	42.3	—	4.1	4.2	4.1	4.5	
333	Primary nonferrous metals	42.0	42.5	42.1	41.6	—	3.8	3.7	3.8	3.5	
3334	Primary aluminum	41.6	41.7	42.5	41.1	—	4.7	4.7	4.2	3.9	
335	Nonferrous rolling and drawing	42.9	42.5	42.8	43.2	—	5.2	5.0	5.5	5.8	
3351	Copper rolling and drawing	43.2	42.9	43.8	44.2	—	5.2	4.7	6.0	6.3	
3353	Aluminum sheet, plate and foil	43.0	42.4	42.4	43.4	—	6.3	6.1	6.8	7.3	
3357	Nonferrous wire drawing and insulating	42.0	41.9	42.3	42.6	—	4.4	4.3	5.0	5.1	
336	Nonferrous foundries	41.8	41.7	41.1	41.2	—	3.9	3.9	3.5	3.8	
3361	Aluminum foundries	41.9	41.8	40.9	40.8	—	3.9	3.9	3.6	3.9	
34	FABRICATED METAL PRODUCTS	41.2	41.2	40.9	41.2	40.9	4.0	3.9	3.7	4.1	
341	Metal cans and shipping containers	43.7	43.9	44.6	43.7	—	5.2	4.8	5.3	5.6	
3411	Metal cans	43.8	44.3	44.7	43.7	—	5.1	4.7	5.0	5.4	
342	Cutlery, hand tools, and hardware	41.3	41.1	40.5	40.6	—	3.6	3.8	3.6	3.5	
3423, 5	Hand and edge tools, and hand saws and blades	41.3	41.2	39.7	40.2	—	3.4	3.4	2.8	3.1	
3429	Hardware, nec	41.3	41.3	41.1	40.9	—	3.8	4.1	4.1	3.8	
343	Plumbing and heating, except electric	40.1	39.9	39.6	39.6	—	2.8	2.8	2.6	2.9	
3432	Plumbing fittings and brass goods	39.4	39.0	39.8	39.4	—	1.9	1.6	2.8	2.9	
3433	Heating equipment, except electric	40.6	40.2	39.0	39.7	—	3.3	3.3	2.1	2.8	
344	Fabricated structural metal products	40.4	40.4	40.3	40.7	—	3.6	3.4	3.3	3.7	
3441	Fabricated structural metal	39.9	39.4	41.0	41.0	—	3.5	3.2	3.9	4.1	
3442	Metal doors, sash, and trim	40.3	40.2	39.5	39.7	—	3.8	3.0	3.1	3.0	
3443	Fabricated plate work (boiler shops)	40.3	40.8	40.3	40.9	—	3.5	3.8	3.0	3.4	
3444	Sheet metal work	40.2	40.3	39.5	39.9	—	3.6	3.6	3.2	3.7	
3446	Architectural metal work	40.7	40.0	40.3	40.8	—	3.0	2.5	2.6	3.2	
345	Screw machine products, bolts, etc.	42.9	42.8	42.5	42.8	—	5.3	5.1	5.3	5.5	
3451	Screw machine products	42.9	42.5	42.1	42.1	—	5.4	5.3	5.2	5.4	
3452	Bolts, nuts, rivets, and washers	42.9	43.1	43.0	43.5	—	5.1	4.9	5.4	5.6	
346	Metal forgings and stampings	42.0	42.2	41.4	42.1	—	5.0	5.1	4.3	5.0	
3462	Iron and steel forgings	41.8	41.8	41.9	42.5	—	5.3	5.1	5.5	5.8	
3465	Automotive stampings	43.5	43.5	42.5	43.1	—	6.4	6.9	4.7	5.9	
3469	Metal stampings, nec	40.7	41.0	40.2	41.0	—	3.5	3.3	3.3	3.7	
347	Metal services, nec	40.7	40.8	40.3	40.3	—	4.1	4.1	3.7	4.0	
3471	Plating and polishing	40.2	40.7	40.0	40.2	—	4.0	4.1	3.4	3.8	
3479	Metal coating and allied services	41.7	41.1	41.1	40.5	—	4.3	4.1	4.4	4.4	
348	Ordnance and accessories, nec	40.7	40.8	40.4	40.7	—	2.7	2.6	3.3	3.2	
3483	Ammunition, exc. for small arms, nec	40.2	40.3	38.4	38.3	—	1.9	2.0	1.6	1.4	
349	Misc. fabricated metal products	40.6	40.7	40.6	40.9	—	3.4	3.2	3.2	3.5	
3494	Valves and pipe fittings	42.2	42.4	41.5	41.7	—	4.2	3.8	3.4	3.6	
3496	Misc. fabricated wire products	39.4	39.8	39.9	40.2	—	2.8	2.7	3.0	3.3	
35	MACHINERY, EXCEPT ELECTRICAL	41.9	41.9	41.6	42.2	42.0	4.3	4.4	4.0	4.5	
351	Engines and turbines	43.9	43.3	41.4	42.2	—	4.8	4.4	3.6	4.2	
3511	Turbines and turbine generator sets	40.9	40.7	40.2	41.8	—	4.2	3.8	3.9	4.9	
3519	Internal combustion engines, nec	45.1	44.4	41.9	42.4	—	5.0	4.7	3.5	4.0	
352	Farm and garden machinery	41.0	41.1	40.2	41.0	—	4.1	5.1	3.4	4.3	
3523	Farm machinery and equipment	41.1	41.2	40.4	41.2	—	4.4	5.5	3.5	4.6	
353	Construction and related machinery	41.7	41.8	42.1	42.4	—	3.8	3.9	3.9	4.0	

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	\$314.34	\$320.80	\$331.55	\$341.88	—	\$7.52	\$7.73	\$7.97	\$8.14	—
3532	Mining machinery	260.09	268.71	294.42	307.73	—	6.47	6.57	7.01	7.14	—
3533	Oil field machinery	266.22	272.16	293.25	300.96	—	6.22	6.30	6.68	6.84	—
3535	Conveyers and conveying equipment	245.34	242.80	263.30	251.91	—	5.80	5.74	6.21	6.07	—
3537	Industrial trucks and tractors	252.97	258.13	269.94	274.70	—	6.14	6.25	6.60	6.70	—
354	Metalworking machinery	284.26	291.27	301.10	312.73	—	6.58	6.65	6.97	7.14	—
3541	Machine tools, metal cutting types	293.23	306.43	310.87	324.41	—	6.71	6.84	7.13	7.29	—
3542	Machine tools, metal forming types	275.27	287.70	314.81	320.25	—	6.78	6.85	7.39	7.50	—
3544	Special dies, tools, jigs, and fixtures	313.73	322.79	328.55	341.76	—	7.05	7.11	7.45	7.68	—
3545	Machine tool accessories	256.45	253.68	268.82	275.63	—	6.02	6.04	6.34	6.44	—
3546	Power driven hand tools	213.20	214.08	219.92	233.80	—	5.20	5.26	5.43	5.58	—
355	Special industry machinery	251.45	250.69	260.48	269.10	—	6.03	6.07	6.40	6.50	—
3551	Food products machinery	263.11	261.81	280.69	282.76	—	6.34	6.37	6.78	6.83	—
3552	Textile machinery	205.09	200.59	211.85	220.58	—	4.99	5.04	5.27	5.38	—
3555	Printing trades machinery	264.80	264.38	255.19	278.81	—	6.35	6.34	6.51	6.67	—
356	General industrial machinery	265.01	264.77	277.43	284.39	—	6.34	6.38	6.75	6.82	—
3561	Pumps and pumping equipment	268.16	266.24	268.54	276.89	—	6.40	6.40	6.68	6.77	—
3562	Ball and roller bearings	270.51	267.96	282.35	289.53	—	6.35	6.38	6.82	6.91	—
3563	Air and gas compressors	280.80	276.64	299.06	306.44	—	6.50	6.54	7.07	7.11	—
3564	Blowers and fans	231.90	237.63	246.65	242.00	—	5.74	5.81	6.09	6.05	—
3566	Speed changers, drives, and gears	286.12	285.60	311.10	317.70	—	6.78	6.80	7.32	7.27	—
3568	Power transmission equipment, nec	255.78	250.10	268.62	281.96	—	6.09	6.13	6.52	6.65	—
357	Office and computing machines	221.94	220.17	229.90	235.46	—	5.40	5.37	5.58	5.66	—
3573	Electronic computing equipment	228.52	224.39	230.04	236.59	—	5.48	5.48	5.57	5.66	—
358	Refrigeration and service machinery	236.29	240.49	250.92	257.07	—	5.82	5.82	6.12	6.27	—
3585	Refrigeration and heating equipment	242.90	248.53	255.85	264.32	—	5.91	5.96	6.21	6.40	—
359	Misc. machinery, except electrical	256.20	257.88	271.05	283.34	—	6.10	6.14	6.50	6.62	—
3592	Carburetors, pistons, rings, valves	303.05	306.25	298.00	321.53	—	7.32	7.24	7.34	7.46	—
3599	Machinery, except electrical, nec	247.97	248.89	266.48	276.27	—	5.89	5.94	6.36	6.47	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	225.36	224.11	236.56	241.16	\$241.19	5.51	5.52	5.87	5.94	\$5.97
361	Electric distributing equipment	227.26	224.78	234.43	243.19	—	5.57	5.55	5.92	5.99	—
3612	Transformers	208.46	207.55	227.66	228.22	—	5.16	5.15	5.58	5.58	—
3613	Switchgear and switchboard apparatus	242.49	238.91	239.86	256.31	—	5.90	5.87	6.23	6.36	—
362	Electrical industrial apparatus	229.45	228.17	240.19	244.41	—	5.61	5.62	5.96	6.02	—
3621	Motors and generators	238.71	237.80	245.62	250.70	—	5.78	5.80	6.11	6.19	—
3622	Industrial controls	204.73	202.15	220.57	226.55	—	5.17	5.17	5.57	5.58	—
363	Household appliances	221.41	221.27	235.53	234.00	—	5.44	5.45	5.83	5.85	—
3632	Household refrigerators and freezers	250.40	243.07	259.78	249.60	—	5.73	5.76	6.20	6.24	—
3633	Household laundry equipment	244.99	249.74	271.56	266.73	—	6.38	6.47	6.91	6.91	—
3634	Electric housewares and fans	188.67	189.07	199.08	201.38	—	4.67	4.68	4.94	4.96	—
364	Electric lighting and wiring equipment	206.23	205.49	220.30	222.56	—	5.13	5.15	5.48	5.55	—
3641	Electric lamps	226.74	223.16	244.36	247.01	—	5.49	5.51	5.96	6.01	—
3643	Current-carrying wiring devices	194.00	192.16	207.87	207.03	—	4.79	4.78	5.12	5.15	—
3644	Noncurrent-carrying wiring devices	216.54	216.40	219.64	223.76	—	5.36	5.33	5.45	5.58	—
3645	Residential lighting fixtures	159.80	159.52	167.25	169.65	—	4.25	4.22	4.46	4.50	—
365	Radio and TV receiving equipment	202.78	203.91	214.24	220.70	—	4.97	5.01	5.41	5.49	—
3651	Radio and TV receiving sets	200.00	201.45	216.86	223.11	—	5.00	5.10	5.49	5.62	—
366	Communication equipment	263.53	261.62	278.66	283.71	—	6.35	6.35	6.78	6.82	—
3661	Telephone and telegraph apparatus	276.22	268.09	278.29	284.01	—	6.53	6.46	6.94	7.03	—
3662	Radio and TV communication equipment	252.96	256.25	279.05	283.48	—	6.20	6.25	6.66	6.67	—
367	Electronic components and accessories	184.12	182.74	196.71	199.70	—	4.58	4.58	4.93	4.98	—
3671-3	Electronic tubes	253.58	248.26	253.37	258.55	—	5.75	5.76	6.21	6.23	—
3674	Semiconductors and related devices	206.15	203.41	224.27	228.52	—	5.09	5.06	5.47	5.56	—
3679	Electronic components, nec	167.84	167.84	180.85	182.03	—	4.26	4.26	4.59	4.62	—
369	Misc. electrical equipment and supplies	282.67	277.97	283.03	294.24	—	6.62	6.65	6.92	7.09	—
3691	Storage batteries	305.55	305.55	302.10	311.10	—	6.76	6.76	7.21	7.32	—
3694	Engine electrical equipment	316.83	307.76	311.71	325.07	—	7.42	7.47	7.64	7.89	—
37	TRANSPORTATION EQUIPMENT	316.91	324.22	318.20	342.93	350.57	7.37	7.54	7.78	8.05	8.21
371	Motor vehicles and equipment	352.79	363.04	345.69	378.88	—	7.91	8.14	8.35	8.68	—
3711	Motor vehicles and car bodies	372.82	387.21	349.77	395.42	—	8.23	8.51	8.90	9.09	—
3713	Truck and bus bodies	264.27	261.79	267.87	273.03	—	6.43	6.48	6.68	6.86	—
3714	Motor vehicle parts and accessories	352.68	358.75	360.22	385.37	—	7.89	8.08	8.30	8.66	—
3715	Truck trailers	217.88	216.41	224.47	235.58	—	5.42	5.37	5.57	5.76	—
372	Aircraft and parts	295.68	296.10	317.18	326.56	—	7.04	7.05	7.57	7.63	—
3721	Aircraft	301.26	300.00	326.98	330.23	—	7.19	7.16	7.73	7.77	—
3724	Aircraft engines and engine parts	300.72	303.16	318.27	339.47	—	7.16	7.27	7.82	7.95	—
3728	Aircraft equipment, nec	276.64	278.80	291.45	301.46	—	6.54	6.56	6.89	6.93	—
373	Ship and boat building and repairing	241.38	244.11	255.92	265.44	—	6.08	6.18	6.63	6.72	—
3731	Shipbuilding and repairing	254.87	256.49	270.20	280.85	—	6.42	6.51	7.00	7.11	—
3732	Boat building and repairing	194.04	195.13	207.58	211.18	—	4.90	4.94	5.35	5.36	—
374	Railroad equipment	295.25	303.06	306.75	(*)	—	7.29	7.52	8.03	(*)	—

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	41.8	41.5	41.6	42.0	--	3.4	3.3	3.2	3.4	
3532	Mining machinery	40.2	40.9	42.0	43.1	--	3.0	3.6	3.5	3.3	
3533	Oil field machinery	42.8	43.2	43.9	44.0	--	5.1	5.3	5.3	5.5	
3535	Conveyers and conveying equipment	42.3	42.3	42.4	41.5	--	4.6	4.7	4.6	3.7	
3537	Industrial trucks and tractors	41.2	41.3	40.9	41.0	--	3.5	3.9	3.6	3.6	
354	Metalworking machinery	43.2	43.8	43.2	43.8	--	5.6	5.8	5.1	6.0	
3541	Machine tools, metal cutting types	43.7	44.8	43.6	44.5	--	5.6	5.8	5.6	6.2	
3542	Machine tools, metal forming types	40.6	42.0	42.6	42.7	--	4.9	5.3	5.6	6.2	
3544	Special dies, tools, jigs, and fixtures	44.5	45.4	44.1	44.5	--	7.1	7.4	6.1	7.1	
3545	Machine tool accessories	42.6	42.0	42.4	42.8	--	4.6	4.2	4.3	5.1	
3546	Power driven hand tools	41.0	40.7	40.5	41.9	--	3.5	3.5	2.8	4.2	
355	Special industry machinery	41.7	41.3	40.7	41.4	--	4.3	3.9	3.6	4.2	
3551	Food products machinery	41.5	41.1	41.4	41.4	--	3.6	3.3	3.4	3.6	
3552	Textile machinery	41.1	39.8	40.2	41.0	--	3.1	2.7	2.5	3.4	
3555	Printing trades machinery	41.7	41.7	39.2	41.8	--	5.3	4.5	3.3	4.9	
356	General industrial machinery	41.8	41.5	41.1	41.7	--	4.3	3.9	3.9	4.5	
3561	Pumps and pumping equipment	41.9	41.6	40.2	40.9	--	4.3	4.2	3.1	3.7	
3562	Ball and roller bearings	42.6	42.0	41.4	41.9	--	4.7	4.3	4.9	5.6	
3563	Air and gas compressors	43.2	42.3	42.3	43.1	--	5.5	4.7	4.5	4.7	
3564	Blowers and fans	40.4	40.9	40.5	40.0	--	3.5	2.8	3.4	3.1	
3566	Speed changers, drives, and gears	42.2	42.0	42.5	43.7	--	4.4	4.0	4.9	5.0	
3568	Power transmission equipment, nec	42.0	40.8	41.2	42.4	--	5.0	3.8	4.0	5.3	
357	Office and computing machines	41.1	41.0	41.2	41.6	--	3.2	3.0	3.1	3.4	
3573	Electronic computing equipment	41.7	41.4	41.3	41.8	--	3.6	3.2	3.1	3.5	
358	Refrigeration and service machinery	40.6	40.9	41.0	41.0	--	3.6	3.7	3.1	3.5	
3585	Refrigeration and heating equipment	41.1	41.7	41.2	41.3	--	3.9	3.9	3.3	3.7	
359	Misc. machinery, except electrical	42.0	42.0	41.7	42.8	--	4.8	4.9	4.6	5.0	
3592	Carburetors, pistons, rings, valves	41.4	42.3	40.6	43.1	--	3.9	3.6	3.2	4.2	
3599	Machinery, except electrical, nec	42.1	41.9	41.9	42.7	--	4.9	5.1	4.8	5.2	
36	ELECTRIC AND ELECTRONIC EQUIPMENT	40.9	40.6	40.3	40.6	40.4	3.0	2.8	2.8	3.1	
361	Electric distributing equipment	40.8	40.5	39.6	40.6	--	2.6	2.5	2.6	3.0	
3612	Transformers	40.4	40.3	40.8	40.9	--	2.3	1.9	3.0	3.1	
3613	Switchgear and switchboard apparatus	41.1	40.7	38.5	40.3	--	2.8	3.0	2.3	2.9	
362	Electrical industrial apparatus	40.9	40.6	40.3	40.6	--	3.3	3.1	2.9	3.2	
3621	Motors and generators	41.3	41.0	40.2	40.5	--	3.7	3.5	3.1	3.3	
3622	Industrial controls	39.6	39.1	39.6	40.6	--	2.2	2.2	2.0	2.4	
363	Household appliances	40.7	40.6	40.4	40.0	--	2.7	2.5	2.2	2.5	
3632	Household refrigerators and freezers	43.7	42.2	41.9	40.0	--	2.1	1.5	2.0	1.6	
3633	Household laundry equipment	38.4	38.6	39.3	38.6	--	1.3	1.3	1.3	.9	
3634	Electric housewares and fans	40.4	40.4	40.3	40.6	--	3.2	3.0	2.9	3.5	
364	Electric lighting and wiring equipment	40.2	39.9	40.2	40.1	--	2.5	2.5	2.9	3.2	
3641	Electric lamps	41.3	40.5	41.0	41.1	--	2.2	2.0	2.4	3.0	
3643	Current-carrying wiring devices	40.5	40.2	40.6	40.2	--	2.7	2.7	3.0	3.1	
3644	Noncurrent-carrying wiring devices	40.4	40.6	40.3	40.1	--	2.6	2.4	2.9	3.3	
3645	Residential lighting fixtures	37.6	37.8	37.5	37.7	--	1.8	1.9	1.9	2.0	
365	Radio and TV receiving equipment	40.8	40.7	39.6	40.2	--	2.4	2.6	2.1	2.8	
3651	Radio and TV receiving sets	40.0	39.5	39.5	39.7	--	1.5	1.5	1.8	2.2	
366	Communication equipment	41.5	41.2	41.1	41.6	--	3.1	2.9	3.0	3.3	
3661	Telephone and telegraph apparatus	42.3	41.5	40.1	40.4	--	3.4	3.0	3.1	3.2	
3662	Radio and TV communication equipment	40.8	41.0	41.9	42.5	--	2.8	2.9	3.0	3.3	
367	Electronic components and accessories	40.2	39.9	39.9	40.1	--	2.6	2.5	2.6	2.8	
3671-3	Electronic tubes	44.1	43.1	40.8	41.5	--	2.9	2.4	1.9	2.6	
3674	Semiconductors and related devices	40.5	40.2	41.0	41.1	--	3.1	3.1	3.2	3.5	
3679	Electronic components, nec	39.4	39.4	39.4	39.4	--	2.4	2.3	2.5	2.5	
369	Misc. electrical equipment and supplies	42.7	41.8	40.9	41.5	--	4.9	4.3	3.7	4.4	
3691	Storage batteries	45.2	45.2	41.9	42.5	--	5.7	5.7	5.1	5.5	
3694	Engine electrical equipment	42.7	41.2	40.8	41.2	--	5.8	4.7	3.7	4.6	
37	TRANSPORTATION EQUIPMENT	43.0	43.0	40.9	42.6	42.7	5.2	5.5	4.5	5.5	
371	Motor vehicles and equipment	44.6	44.6	41.4	43.7	--	6.6	6.9	5.4	6.8	
3711	Motor vehicles and car bodies	45.3	45.5	39.3	43.5	--	6.7	7.7	5.1	6.8	
3713	Truck and bus bodies	41.1	40.4	40.1	39.8	--	4.0	3.6	3.2	3.4	
3714	Motor vehicle parts and accessories	44.7	44.4	43.4	44.5	--	7.1	6.8	6.0	7.4	
3715	Truck trailers	40.2	40.3	40.3	40.9	--	2.7	2.9	3.0	3.2	
372	Aircraft and parts	42.0	42.0	41.9	42.8	--	3.8	4.0	4.3	4.7	
3721	Aircraft	41.9	41.9	42.3	42.5	--	3.0	3.1	3.9	3.9	
3724	Aircraft engines and engine parts	42.0	41.7	40.7	42.7	--	4.6	4.7	4.4	5.5	
3728	Aircraft equipment, nec	42.3	42.5	42.3	43.5	--	4.9	4.9	5.1	5.7	
373	Ship and boat building and repairing	39.7	39.5	38.6	39.5	--	3.0	3.1	2.5	2.5	
3731	Ship building and repairing	39.7	39.4	38.6	39.5	--	3.1	3.3	2.6	2.4	
3732	Boat building and repairing	39.6	39.5	38.8	39.4	--	2.8	2.6	2.4	2.9	
374	Railroad equipment	40.5	40.3	38.2	(*)	--	3.2	3.5	3.1	(*)	

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	TRANSPORTATION EQUIPMENT—Continued										
378	Guided missiles, space vehicles, parts	\$302.41	\$294.11	\$316.20	\$317.15	—	\$7.34	\$7.28	\$7.44	\$7.48	—
3761	Guided missiles and space vehicles	307.22	299.55	310.02	308.61	—	7.53	7.47	7.58	7.62	—
379	Miscellaneous transportation equipment	213.60	218.55	221.92	226.51	—	5.34	5.45	5.59	5.72	—
3792	Travel trailers and campers	191.00	197.90	195.32	194.05	—	4.86	5.01	5.06	5.12	—
	INSTRUMENTS AND RELATED PRODUCTS					\$236.57					\$5.77
38	Engineering and scientific instruments	219.10	220.04	233.78	238.30	—	5.37	5.38	5.73	5.77	—
381	Guided missiles and space vehicles	240.39	241.68	254.52	257.00	—	5.71	5.70	6.06	6.09	—
382	Measuring and controlling devices	220.73	222.49	236.47	241.61	—	5.45	5.48	5.81	5.85	—
3822	Environmental controls	204.61	206.40	223.11	223.56	—	5.18	5.16	5.55	5.52	—
3823	Process control instruments	232.54	231.84	244.73	258.26	—	5.59	5.60	5.94	6.02	—
3825	Instruments to measure electricity	229.71	232.80	245.78	248.66	—	5.70	5.72	5.98	6.05	—
383	Optical instruments and lenses	260.42	256.77	264.11	267.44	—	5.80	5.77	6.03	6.12	—
384	Medical instruments and supplies	185.00	184.21	196.02	201.10	—	4.66	4.64	4.95	4.99	—
3841	Surgical and medical instruments	180.26	180.37	192.10	199.33	—	4.44	4.41	4.72	4.78	—
3842	Surgical appliances and supplies	188.94	187.11	201.76	204.34	—	4.82	4.81	5.16	5.16	—
385	Ophthalmic goods	167.56	168.27	177.63	182.28	—	4.21	4.26	4.59	4.65	—
386	Photographic equipment and supplies	285.78	287.98	305.44	314.06	—	6.74	6.76	7.17	7.27	—
387	Watches, clocks, and watchcases	164.27	165.95	178.49	179.60	—	4.18	4.18	4.44	4.49	—
	MISCELLANEOUS MANUFACTURING INDUSTRIES					186.98					4.77
391	Jewelry, silverware, and plated ware	172.43	173.26	182.83	185.81	—	4.41	4.42	4.70	4.74	—
3911	Jewelry, precious metal	181.94	188.33	183.52	188.76	—	4.56	4.65	4.73	4.84	—
3911	Jewelry, precious metal	180.58	190.07	175.86	179.17	—	4.56	4.67	4.64	4.74	—
393	Musical instruments	167.16	169.22	182.10	184.07	—	4.20	4.22	4.61	4.66	—
394	Toys and sporting goods	153.60	153.23	163.83	167.09	—	4.00	3.98	4.30	4.34	—
3942, 4	Dolls, games, toys, and children's vehicles	144.40	142.13	157.73	159.44	—	3.79	3.77	4.14	4.12	—
3949	Sporting and athletic goods, nec	162.93	164.69	170.37	174.27	—	4.21	4.18	4.46	4.55	—
395	Pens, pencils, office and art supplies	177.91	180.50	198.36	198.13	—	4.47	4.49	4.91	4.88	—
396	Costume jewelry and notions	147.42	147.05	155.01	157.47	—	3.90	3.88	4.09	4.09	—
3961	Costume jewelry	137.27	137.26	145.08	147.44	—	3.69	3.67	3.90	3.88	—
399	Miscellaneous manufactures	196.42	196.42	209.22	212.53	—	4.96	4.96	5.27	5.34	—
3993	Signs and advertising displays	208.65	211.38	219.46	220.87	—	5.35	5.42	5.57	5.62	—
	NONDURABLE GOODS										
	FOOD AND KINDRED PRODUCTS					234.21					5.87
20	Meat products	220.18	216.51	233.16	236.56	—	5.45	5.44	5.80	5.87	—
201	Meat products	225.43	223.84	233.64	242.00	—	5.58	5.61	5.90	6.02	—
2011	Meat packing plants	280.98	278.56	286.44	306.55	—	6.69	6.68	7.09	7.23	—
2013	Sausages and other prepared meats	257.40	259.03	270.80	271.95	—	6.34	6.38	6.77	6.85	—
2016	Poultry dressing plants	133.38	130.26	148.23	146.66	—	3.51	3.53	3.85	3.88	—
202	Dairy products	232.09	227.64	244.78	248.95	—	5.41	5.42	5.87	5.97	—
2022	Cheese, natural and processed	208.57	204.72	225.22	218.90	—	5.05	5.03	5.52	5.57	—
2026	Fluid milk	243.31	239.45	254.82	263.59	—	5.48	5.53	6.01	6.13	—
203	Preserved fruits and vegetables	196.32	180.39	209.16	205.77	—	4.97	4.71	5.19	5.17	—
2032	Canned specialties	228.03	214.24	249.48	252.11	—	5.23	5.20	5.94	5.96	—
2033	Canned fruits and vegetables	203.70	178.13	214.27	208.68	—	5.17	4.75	5.33	5.23	—
2037	Frozen fruits and vegetables	175.10	169.65	200.41	197.31	—	4.56	4.50	4.90	4.97	—
204	Grain mill products	258.86	254.60	277.64	285.09	—	5.91	5.88	6.31	6.45	—
2041	Flour and other grain mill products	293.26	291.87	315.32	321.76	—	6.20	6.21	6.84	7.01	—
2048	Prepared feeds, nec	203.78	202.53	220.25	228.22	—	4.75	4.71	5.04	5.14	—
205	Bakery products	224.36	224.58	236.38	238.90	—	5.68	5.70	6.03	6.11	—
2051	Bread, cake, and related products	223.57	222.87	237.12	240.07	—	5.66	5.70	6.08	6.14	—
2052	Cookies and crackers	226.37	229.71	233.42	236.01	—	5.76	5.70	5.85	5.99	—
206	Sugar and confectionery products	211.60	200.07	225.58	228.05	—	5.33	5.13	5.74	5.73	—
2061-3	Cane and beet sugar	257.68	222.72	282.77	275.02	—	6.41	5.80	6.88	6.91	—
2065	Confectionery products	184.63	178.55	192.79	197.79	—	4.71	4.59	5.06	5.02	—
207	Fats and oils	251.87	247.52	271.81	272.44	—	5.66	5.60	6.22	6.22	—
208	Beverages	265.93	263.86	277.43	282.17	—	6.55	6.58	6.85	6.95	—
2082	Malt beverages	371.06	362.41	386.16	397.42	—	8.69	8.67	9.35	9.44	—
2086	Bottled and canned soft drinks	192.67	185.06	211.97	210.08	—	4.89	4.87	5.17	5.20	—
209	Misc. foods and kindred products	176.15	179.27	190.26	195.20	—	4.66	4.73	5.02	5.11	—
	TOBACCO MANUFACTURES					238.29					6.11
21	Cigarettes	215.12	213.17	236.25	234.24	—	5.53	5.48	6.30	6.10	—
211	Cigarettes	265.59	260.44	287.23	290.32	—	6.81	6.80	7.48	7.60	—
	TEXTILE MILL PRODUCTS					177.68					4.42
22	Weaving mills, cotton	166.05	166.46	177.42	179.45	—	4.10	4.10	4.37	4.42	—
221	Weaving mills, cotton	172.89	175.44	185.09	188.09	—	4.29	4.30	4.57	4.61	—
222	Weaving mills, synthetics	177.12	177.53	195.72	196.98	—	4.32	4.33	4.66	4.69	—
223	Weaving and finishing mills, wool	168.80	172.06	182.10	188.52	—	4.22	4.28	4.42	4.51	—
224	Narrow fabric mills	151.84	150.84	161.60	163.21	—	3.74	3.79	4.05	4.07	—
225	Knitting mills	146.65	148.18	156.78	155.50	—	3.77	3.78	4.02	4.06	—

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	41.2	40.4	42.5	42.4	—	3.6	3.3	4.4	4.6	—
3761	Guided missiles and space vehicles	40.8	40.1	40.9	40.5	—	3.3	3.1	3.4	3.5	—
379	Miscellaneous transportation equipment	40.0	40.1	39.7	39.6	—	2.6	2.5	2.6	3.0	—
3792	Travel trailers and campers	39.3	39.5	38.6	37.9	—	2.5	2.3	2.5	2.8	—
38	INSTRUMENTS AND RELATED PRODUCTS	40.8	40.9	40.8	41.3	41.0	2.6	2.6	2.4	2.9	—
381	Engineering and scientific instruments	42.1	42.4	42.0	42.2	—	3.2	3.1	3.4	3.5	—
382	Measuring and controlling devices	40.5	40.6	40.7	41.3	—	2.6	2.6	2.1	2.7	—
3822	Environmental controls	39.5	40.0	40.2	40.5	—	2.1	1.9	2.0	2.4	—
3823	Process control instruments	41.6	41.4	41.2	42.9	—	3.6	3.3	2.6	3.8	—
3825	Instruments to measure electricity	40.3	40.7	41.1	41.1	—	2.0	2.4	1.9	2.0	—
383	Optical instruments and lenses	44.9	44.5	43.8	43.7	—	4.3	3.7	3.3	3.9	—
384	Medical instruments and supplies	39.7	39.7	39.6	40.3	—	2.1	2.0	2.3	2.6	—
3841	Surgical and medical instruments	40.6	40.9	40.7	41.7	—	1.8	1.8	2.6	3.2	—
3842	Surgical appliances and supplies	39.2	38.9	39.1	39.6	—	2.5	2.2	2.3	2.3	—
385	Ophthalmic goods	39.8	39.5	38.7	39.2	—	1.6	1.4	1.8	2.1	—
386	Photographic equipment and supplies	42.4	42.6	42.6	43.2	—	3.4	3.6	3.1	3.8	—
387	Watches, clocks, and watchcases	39.3	39.7	40.2	40.0	—	1.7	2.2	1.9	2.2	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	39.1	39.2	38.9	39.2	39.2	2.4	2.5	2.4	2.6	—
391	Jewelry, silverware, and plated ware	39.9	40.5	38.8	39.0	—	3.3	3.6	2.4	2.9	—
3911	Jewelry, precious metal	39.6	40.7	37.9	37.8	—	3.5	3.8	2.1	2.5	—
393	Musical instruments	39.8	40.1	39.5	39.5	—	1.7	2.0	2.2	2.1	—
394	Toys and sporting goods	38.4	38.5	38.1	38.5	—	1.9	2.0	1.8	2.2	—
3942, 4	Dolls, games, toys, and children's vehicles	38.1	37.7	38.1	38.7	—	1.9	1.9	1.8	2.5	—
3949	Sporting and athletic goods, nec	38.7	39.4	38.2	38.3	—	1.9	2.1	1.7	1.8	—
395	Pens, pencils, office and art supplies	39.8	40.2	40.4	40.6	—	2.5	2.6	2.7	2.8	—
396	Costume jewelry and notions	37.8	37.9	37.9	38.5	—	2.1	2.5	2.4	2.8	—
3961	Costume jewelry	37.2	37.4	37.2	38.0	—	2.1	2.7	2.2	2.8	—
399	Miscellaneous manufactures	39.6	39.6	39.7	39.8	—	2.7	2.6	2.8	2.9	—
3993	Signs and advertising displays	39.0	39.0	39.4	39.3	—	2.8	2.8	2.6	2.3	—
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	40.4	39.8	40.2	40.3	39.9	4.7	4.1	4.4	4.6	—
201	Meat products	40.4	39.9	39.6	40.2	—	4.4	4.0	3.9	4.5	—
2011	Meat packing plants	42.0	41.7	40.4	42.4	—	5.1	4.6	4.2	5.6	—
2013	Sausages and other prepared meats	40.6	40.6	40.0	39.7	—	4.1	3.9	3.7	3.7	—
2016	Poultry dressing plants	38.0	36.9	38.5	37.8	—	3.7	3.1	3.6	3.6	—
202	Dairy products	42.9	42.0	41.7	41.7	—	4.8	4.2	4.3	4.6	—
2022	Cheese, natural and processed	41.3	40.7	40.8	39.3	—	4.5	4.1	3.8	3.4	—
2026	Fluid milk	44.4	43.3	42.4	43.0	—	5.3	4.5	4.5	5.3	—
203	Preserved fruits and vegetables	39.5	38.3	40.3	39.8	—	5.4	3.5	5.4	5.2	—
2032	Canned specialties	43.6	41.2	42.0	42.3	—	6.2	4.3	5.6	6.9	—
2033	Canned fruits and vegetables	39.4	37.5	40.2	39.9	—	5.9	3.5	6.2	6.2	—
2037	Frozen fruits and vegetables	38.4	37.7	40.9	39.7	—	4.7	3.5	4.8	4.1	—
204	Grain mill products	43.8	43.3	44.0	44.2	—	6.7	6.3	6.4	6.9	—
2041	Flour and other grain mill products	47.3	47.0	46.1	45.9	—	7.5	7.5	6.9	7.7	—
2048	Prepared feeds, nec	42.9	43.0	43.7	44.4	—	6.4	6.3	6.6	7.2	—
205	Bakery products	39.5	39.4	39.2	39.1	—	3.6	3.6	3.4	3.6	—
2051	Bread, cake, and related products	39.5	39.1	39.0	39.1	—	4.0	3.7	3.7	4.1	—
2052	Cookies and crackers	39.3	40.3	39.9	39.4	—	2.5	3.2	2.4	2.4	—
206	Sugar and confectionery products	39.7	39.0	39.3	39.8	—	3.8	4.3	2.9	3.2	—
2061-3	Cane and beet sugar	40.2	38.4	41.1	39.8	—	4.9	5.7	4.3	4.4	—
2065	Confectionery products	39.2	38.9	38.1	39.4	—	3.1	3.6	2.0	2.5	—
207	Fats and oils	44.5	44.2	43.7	43.8	—	6.3	6.5	6.1	6.2	—
208	Beverages	40.6	40.1	40.5	40.6	—	4.4	4.1	4.4	4.5	—
2082	Malt beverages	42.7	41.8	41.3	42.1	—	5.1	4.9	5.1	5.3	—
2086	Bottled and canned soft drinks	39.4	38.0	41.0	40.4	—	4.1	3.2	4.8	4.4	—
209	Misc. foods and kindred products	37.8	37.9	37.9	38.2	—	3.6	3.8	3.9	3.9	—
21	TOBACCO MANUFACTURES	38.9	38.9	37.5	38.4	39.0	2.2	2.2	2.0	2.3	—
211	Cigarettes	39.0	38.3	38.4	38.2	—	2.3	1.9	2.1	2.5	—
22	TEXTILE MILL PRODUCTS	40.5	40.6	40.6	40.6	40.2	3.7	3.6	3.7	3.8	—
221	Weaving mills, cotton	40.3	40.8	40.5	40.8	—	3.9	4.0	3.6	3.9	—
222	Weaving mills, synthetics	41.0	41.0	42.0	42.0	—	3.5	3.6	4.3	4.3	—
223	Weaving and finishing mills, wool	40.0	40.2	41.2	41.8	—	3.1	3.6	3.7	4.2	—
224	Narrow fabric mills	40.6	39.8	39.9	40.1	—	3.2	3.3	2.9	3.1	—
225	Knitting mills	38.9	39.2	39.0	38.3	—	3.0	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 workers' on private nonagricultural payrolls, by industry—Continued

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings					
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	
	TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$133.94	\$135.68	\$151.98	\$152.47	—	\$3.47	\$3.47	\$3.79	\$3.86		
2252	Hosiery, nec	135.55	140.85	143.63	143.63	—	3.53	3.53	3.76	3.83		
2253	Knit outerwear mills	141.75	145.16	150.02	143.24	—	3.75	3.80	3.99	3.99		
2254	Knit underwear mills	132.40	134.59	141.00	142.13	—	3.54	3.57	3.75	3.76		
2257	Circular knit fabric mills	170.51	163.12	181.15	185.92	—	4.21	4.14	4.44	4.48		
226	Textile finishing, except wool	183.94	182.65	194.69	197.71	—	4.39	4.38	4.68	4.73		
2261	Finishing plants, cotton	186.43	190.00	197.60	203.34	—	4.46	4.46	4.75	4.83		
2262	Finishing plants, synthetics	195.08	190.44	205.58	209.23	—	4.59	4.60	4.86	4.90		
227	Floor covering mills	180.17	175.98	191.20	195.62	—	4.19	4.18	4.52	4.56		
228	Yarn and thread mills	158.21	155.86	167.68	170.15	—	3.84	3.82	4.12	4.15		
2281	Yarn mills, except wool	161.32	159.26	167.68	170.56	—	3.85	3.81	4.12	4.16		
2282	Throwing and winding mills	148.92	146.55	157.51	165.90	—	3.65	3.71	3.87	3.95		
229	Miscellaneous textile goods	184.58	185.51	197.89	200.31	—	4.48	4.47	4.78	4.85		
23	APPAREL AND OTHER TEXTILE PRODUCTS	131.01	132.84	141.48	143.60	\$143.87	3.68	3.69	3.93	4.00	\$4.03	
231	Men's and boys' suits and coats	160.83	160.74	171.70	170.75	—	4.48	4.49	4.73	4.73		
232	Men's and boys' furnishings	119.16	120.52	129.22	129.60	—	3.31	3.32	3.55	3.61		
2321	Men's and boys' shirts and nightwear	113.60	115.84	129.03	129.17	—	3.20	3.20	3.45	3.51		
2327	Men's and boys' separate trousers	120.05	121.79	121.58	129.40	—	3.43	3.45	3.65	3.74		
2328	Men's and boys' work clothing	119.14	119.73	127.78	128.14	—	3.22	3.21	3.52	3.53		
233	Women's and misses' outerwear	124.62	126.41	135.54	136.80	—	3.72	3.74	3.94	4.00		
2331	Women's and misses' blouses and waists	116.58	120.75	129.17	127.28	—	3.48	3.49	3.68	3.70		
2335	Women's and misses' dresses	123.44	124.03	134.94	136.53	—	3.81	3.84	4.04	4.10		
2337	Women's and misses' suits and coats	134.79	136.37	147.06	150.08	—	4.06	4.12	4.30	4.35		
2339	Women's and misses' outerwear, nec	124.60	127.45	134.19	134.43	—	3.56	3.57	3.78	3.83		
234	Women's and children's undergarments	121.44	124.92	131.39	133.56	—	3.30	3.34	3.59	3.60		
2341	Women's and children's underwear	119.56	123.00	128.48	130.63	—	3.24	3.28	3.52	3.54		
2342	Brassieres and allied garments	128.52	131.01	144.71	147.07	—	3.56	3.56	3.89	3.85		
236	Children's outerwear	118.57	119.88	127.44	129.60	—	3.34	3.33	3.54	3.60		
2361	Children's dresses and blouses	115.56	120.52	122.14	125.67	—	3.34	3.32	3.53	3.56		
238	Misc. apparel and accessories	130.30	133.43	140.59	143.93	—	3.56	3.53	3.81	3.89		
239	Misc. fabricated textile products	165.71	167.42	175.49	182.44	—	4.26	4.26	4.57	4.69		
2391	Curtains and draperies	124.69	125.30	131.57	131.60	—	3.29	3.28	3.49	3.50		
2392	House furnishing, nec	141.96	145.30	150.11	156.79	—	3.64	3.66	3.94	4.01		
2396	Automotive and apparel trimmings	275.81	272.80	292.13	310.02	—	6.76	6.82	7.34	7.58		
26	PAPER AND ALLIED PRODUCTS	263.95	264.02	282.71	287.91	287.43	6.11	6.14	6.59	6.68	6.70	
261, 2,6	Paper and pulp mills	313.40	313.54	339.90	349.75	—	6.98	7.03	7.52	7.67	—	
262	Paper mills, except building paper	312.75	312.20	340.50	349.61	—	6.95	7.00	7.50	7.65	—	
263	Paperboard mills	321.11	320.50	346.66	350.51	—	7.12	7.17	7.79	7.93	—	
264	Misc. converted paper products	225.35	226.18	239.67	243.72	—	5.43	5.45	5.86	5.93	—	
2641	Paper coating and glazing	267.50	269.66	290.54	291.47	—	6.25	6.33	6.71	6.81	—	
2642	Envelopes	203.31	206.76	217.06	219.14	—	5.07	5.08	5.44	5.52	—	
2643	Bags, except textile bags	215.66	214.61	235.04	237.69	—	5.26	5.26	5.65	5.70	—	
265	Paperboard containers and boxes	232.48	231.55	250.67	255.00	—	5.47	5.50	5.94	6.00	—	
2651	Folding paperboard boxes	240.41	242.10	262.84	271.73	—	5.67	5.71	6.17	6.29	—	
2653	Corrugated and solid fiber boxes	249.53	246.96	266.84	270.86	—	5.71	5.73	6.22	6.27	—	
2654	Sanitary food containers	214.76	213.27	229.91	230.60	—	5.20	5.24	5.54	5.53	—	
27	PRINTING AND PUBLISHING	237.60	237.12	245.43	250.70	249.20	6.22	6.24	6.51	6.58	6.61	
271	Newspapers	228.39	230.78	232.21	234.26	—	6.62	6.67	6.87	6.79	—	
272	Periodicals	228.98	222.90	224.65	232.65	—	6.09	5.96	5.82	5.95	—	
273	Books	227.29	217.01	237.86	234.63	—	5.49	5.48	5.83	5.94	—	
2731	Book publishing	217.76	217.31	232.41	226.94	—	5.39	5.46	5.56	5.76	—	
2732	Book printing	235.48	217.25	242.78	242.35	—	5.58	5.50	6.10	6.12	—	
274	Miscellaneous publishing	211.42	217.62	211.39	209.66	—	5.52	5.58	5.76	5.84	—	
275	Commercial printing	253.59	251.66	262.96	268.91	—	6.42	6.42	6.76	6.86	—	
2751	Commercial printing, letterpress	240.37	237.73	247.68	252.72	—	6.07	6.08	6.40	6.48	—	
2752	Commercial printing, lithographic	261.35	259.50	270.74	280.06	—	6.65	6.62	6.96	7.09	—	
276	Manifold business forms	235.65	236.93	251.33	258.13	—	5.79	5.85	6.16	6.22	—	
278	Blankbooks and bookbinding	185.33	188.07	195.89	201.45	—	4.74	4.81	5.01	5.10	—	
279	Printing trade services	306.87	305.69	327.71	336.96	—	7.95	7.94	8.49	8.64	—	
28	CHEMICALS AND ALLIED PRODUCTS	274.21	276.05	294.40	299.46	300.12	6.56	6.62	7.06	7.13	7.18	
281	Industrial inorganic chemicals	301.44	304.50	325.36	328.32	—	7.16	7.25	7.71	7.78	—	
2819	Industrial inorganic chemicals, nec	299.59	296.73	319.66	325.31	—	7.15	7.15	7.74	7.82	—	
282	Plastics materials and synthetics	268.32	269.38	294.68	297.65	—	6.45	6.46	6.95	7.02	—	
2821	Plastics materials and resins	301.27	306.40	330.49	333.41	—	6.99	7.06	7.58	7.70	—	
2824	Organic fibers, noncellulosic	243.79	240.76	271.47	277.02	—	5.99	5.93	6.51	6.58	—	
283	Drugs	248.24	251.74	264.92	270.03	—	6.04	6.14	6.43	6.46	—	
2834	Pharmaceutical preparations	237.01	241.20	255.78	260.76	—	5.94	6.03	6.30	6.36	—	

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	38.6	39.1	40.1	39.5	—	2.2	2.5	3.2	3.0	—
2252	Hosiery, nec	38.4	39.9	38.2	37.5	—	2.6	2.8	2.2	2.2	—
2253	Knit outerwear mills	37.8	38.2	37.6	35.9	—	2.7	2.8	2.3	2.1	—
2254	Knit underwear mills	37.4	37.7	37.6	37.8	—	1.8	1.9	1.8	1.8	—
2257	Circular knit fabric mills	40.5	39.4	40.8	41.5	—	4.3	3.2	4.8	4.9	—
226	Textile finishing, except wool	41.9	41.7	41.6	41.8	—	4.6	4.3	4.1	4.4	—
2261	Finishing plants, cotton	41.8	42.6	41.6	42.1	—	4.7	4.8	4.2	4.9	—
2262	Finishing plants, synthetics	42.5	41.4	42.3	42.7	—	5.0	4.3	4.4	4.5	—
227	Floor covering mills	43.0	42.1	42.3	42.9	—	5.0	4.3	4.9	5.3	—
228	Yarn and thread mills	41.2	40.8	40.7	41.0	—	3.8	3.6	3.6	3.8	—
2281	Yarn mills, except wool	41.9	41.8	40.7	41.0	—	4.3	4.0	3.6	3.9	—
2282	Throwing and winding mills	40.8	39.5	40.7	42.0	—	3.5	3.3	3.7	4.1	—
229	Miscellaneous textile goods	41.2	41.5	41.4	41.3	—	4.3	4.2	4.0	4.3	—
	APPAREL AND OTHER TEXTILE PRODUCTS	35.6	36.0	36.0	35.9	35.7	1.4	1.5	1.3	1.4	—
231	Men's and boys' suits and coats	35.9	35.8	36.3	36.1	—	.9	.8	.9	1.0	—
232	Men's and boys' furnishings	36.0	36.3	36.4	35.9	—	1.2	1.2	1.0	1.0	—
2321	Men's and boys' shirts and nightwear	35.5	36.2	37.4	36.8	—	1.0	1.1	1.2	.9	—
2327	Men's and boys' separate trousers	35.0	35.3	35.5	34.6	—	1.3	1.2	.9	1.0	—
2328	Men's and boys' work clothing	37.0	37.3	36.3	36.3	—	1.2	1.3	.9	1.0	—
233	Women's and misses' outerwear	33.5	33.8	34.4	34.2	—	1.2	1.3	1.3	1.3	—
2331	Women's and misses' blouses and waists	33.5	34.6	35.1	34.4	—	1.1	1.0	1.1	1.0	—
2335	Women's and misses' dresses	32.4	32.3	33.4	33.3	—	1.0	1.1	1.2	1.4	—
2337	Women's and misses' suits and coats	33.2	33.1	34.2	34.5	—	1.4	1.4	1.3	1.4	—
2339	Women's and misses' outerwear, nec	35.0	35.7	35.5	35.1	—	1.4	1.5	1.4	1.4	—
234	Women's and children's undergarments	36.8	37.4	36.6	37.1	—	1.4	1.7	1.2	1.4	—
2341	Women's and children's underwear	36.9	37.5	36.5	36.9	—	1.4	1.7	1.2	1.5	—
2342	Brassieres and allied garments	36.1	36.8	37.2	38.2	—	1.2	1.5	.9	1.1	—
236	Children's outerwear	35.5	36.0	36.0	36.0	—	1.5	1.5	1.3	1.4	—
2361	Children's dresses and blouses	34.6	36.3	34.6	35.3	—	1.2	1.8	1.4	1.7	—
238	Misc. apparel and accessories	36.6	37.8	36.9	37.0	—	1.8	1.7	1.5	1.7	—
239	Misc. fabricated textile products	38.9	39.3	38.4	38.9	—	2.7	2.7	2.1	2.7	—
2391	Curtains and draperies	37.9	38.2	37.7	37.6	—	2.2	2.0	1.6	1.6	—
2392	House furnishings, nec	39.0	39.7	38.1	39.1	—	2.4	2.6	1.7	2.3	—
2396	Automotive and apparel trimmings	40.8	40.0	39.8	40.9	—	4.4	3.3	3.2	5.2	—
	PAPER AND ALLIED PRODUCTS	43.2	43.0	42.9	43.1	42.9	5.2	5.1	5.2	5.6	—
261, 2, 6	Paper and pulp mills	44.9	44.6	45.2	45.6	—	6.6	6.5	6.8	7.4	—
262	Paper mills, except building paper	45.0	44.6	45.4	45.7	—	6.5	6.4	6.9	7.5	—
263	Paperboard mills	45.1	44.7	44.5	44.2	—	7.1	6.9	7.3	7.2	—
264	Misc. converted paper products	41.5	41.5	40.9	41.1	—	3.8	3.8	3.9	4.2	—
2641	Paper coating and glazing	42.8	42.6	43.3	42.8	—	5.1	5.0	5.5	6.2	—
2642	Envelopes	40.1	40.7	39.9	39.7	—	3.1	3.0	3.3	3.5	—
2643	Bags, except textile bags	41.0	40.8	41.6	41.7	—	3.8	3.8	3.8	4.2	—
265	Paperboard containers and boxes	42.5	42.1	42.2	42.5	—	4.3	4.2	4.4	4.7	—
2651	Folding paperboard boxes	42.4	42.4	42.6	43.2	—	4.3	4.4	4.6	5.2	—
2653	Corrugated and solid fiber boxes	43.7	43.1	42.9	43.2	—	5.1	5.0	4.9	5.3	—
2654	Sanitary food containers	41.3	40.7	41.5	41.7	—	3.4	2.9	4.0	3.8	—
	PRINTING AND PUBLISHING	38.2	38.0	37.7	38.1	37.7	3.4	3.1	3.1	3.5	—
271	Newspapers	34.5	34.6	33.8	34.5	—	2.0	2.0	1.9	2.0	—
272	Periodicals	37.6	37.4	38.6	39.1	—	3.9	3.7	2.6	3.4	—
273	Books	41.4	39.6	40.8	39.5	—	4.6	3.7	4.6	4.3	—
2731	Book publishing	40.4	39.8	41.8	39.4	—	3.5	3.2	3.6	2.4	—
2732	Book printing	42.2	39.5	39.8	39.6	—	5.6	4.1	5.6	6.1	—
274	Miscellaneous publishing	38.3	39.0	36.7	35.9	—	2.9	2.8	2.1	2.0	—
275	Commercial printing	39.5	39.2	38.9	39.2	—	4.0	3.8	3.7	4.2	—
2751	Commercial printing, letterpress	39.6	39.1	38.7	39.0	—	3.8	3.4	3.4	3.8	—
2752	Commercial printing, lithographic	39.3	39.2	38.9	39.5	—	4.2	3.9	3.9	4.4	—
276	Manifold business forms	40.7	40.5	40.8	41.5	—	3.6	3.5	3.9	4.6	—
278	Blankbooks and bookbinding	39.1	39.1	39.1	39.5	—	2.7	2.6	2.5	2.8	—
279	Printing trade service	38.6	38.5	38.6	39.0	—	3.7	3.4	4.0	4.2	—
	CHEMICALS AND ALLIED PRODUCTS	41.8	41.7	41.7	42.0	41.8	3.6	3.5	3.5	3.8	—
281	Industrial inorganic chemicals	42.1	42.0	42.2	42.2	—	4.2	3.9	3.8	3.9	—
2819	Industrial inorganic chemicals, nec	41.9	41.5	41.3	41.6	—	4.1	3.3	3.4	3.7	—
282	Plastics materials and synthetics	41.6	41.7	42.4	42.4	—	3.2	3.0	3.4	3.6	—
2821	Plastics materials and resins	43.1	43.4	43.6	43.3	—	4.8	4.7	4.7	4.9	—
2824	Organic fibers, noncellulosic	40.7	40.6	41.7	42.1	—	2.2	1.8	2.5	2.8	—
283	Drugs	41.1	41.0	41.2	41.8	—	2.8	2.9	2.6	2.9	—
2834	Pharmaceutical preparations	39.9	40.0	40.6	41.0	—	2.6	2.7	2.5	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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$ 254.82	\$252.96	\$269.47	\$ 273.32	—	\$6.20	\$ 6.20	\$6.67	\$6.65	
2841	Soap and other detergents	345.29	342.17	382.77	378.84	—	8.03	8.07	8.66	8.61	
2842, 3	Polishing, sanitation, and finishing preparations	224.81	225.18	242.80	246.85	—	5.51	5.56	6.01	6.08	
2844	Toilet preparations	206.00	202.47	207.52	216.31	—	5.15	5.10	5.49	5.49	
285	Paints and allied products	250.02	247.80	261.66	262.86	—	6.01	6.00	6.29	6.38	
286	Industrial organic chemicals	324.75	325.13	348.15	359.07	—	7.57	7.65	8.25	8.37	
2865	Cyclic crudes and intermediates	304.40	302.32	310.84	330.65	—	7.03	7.08	7.49	7.78	
2861, 9	Gum, wood, and industrial organic chemicals, nec	330.93	333.20	361.68	368.94	—	7.75	7.84	8.51	8.58	
287	Agricultural chemicals	266.27	270.30	287.70	292.45	—	6.28	6.36	6.85	7.03	
289	Miscellaneous chemical products	256.85	258.74	270.52	275.06	—	6.13	6.19	6.55	6.66	
29	PETROLEUM AND COAL PRODUCTS	340.42	342.50	377.96	384.50	\$392.02	7.88	7.91	8.59	8.66	
291	Petroleum refining	365.09	366.79	401.26	408.53	—	8.55	8.59	9.31	9.37	
295	Paving and roofing materials	279.23	280.90	326.80	331.34	—	6.11	6.08	6.78	6.86	
30	RUBBER AND MISC. PLASTICS PRODUCTS	213.61	214.54	226.59	231.01	232.93	5.21	5.22	5.54	5.58	
301	Tires and inner tubes	312.74	310.68	348.21	354.04	—	7.29	7.31	7.95	8.01	
302	Rubber and plastics footwear	139.71	141.60	139.50	146.29	—	3.61	3.64	3.76	3.79	
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	222.19	227.88	237.42	243.38	—	5.38	5.40	5.68	5.74	
306	Fabricated rubber products, nec	201.87	204.50	212.26	217.83	—	4.96	5.00	5.28	5.30	
307	Miscellaneous plastics products	193.33	194.62	203.62	207.67	—	4.75	4.77	5.04	5.09	
31	LEATHER AND LEATHER PRODUCTS	134.32	136.15	144.35	145.43	144.11	3.64	3.66	3.87	3.92	
311	Leather tanning and finishing	194.64	196.52	196.86	203.97	—	4.94	4.95	5.10	5.19	
314	Footwear, except rubber	128.45	130.26	139.13	138.74	—	3.50	3.53	3.72	3.77	
3143	Men's footwear, except athletic	136.76	138.65	147.45	148.20	—	3.58	3.62	3.87	3.90	
3144	Women's footwear, except athletic	120.06	119.72	133.92	131.39	—	3.44	3.45	3.60	3.67	
316	Luggage	133.95	135.76	148.78	158.30	—	3.69	3.74	4.11	4.21	
317	Handbags and personal leather goods	130.53	134.78	139.13	141.38	—	3.49	3.51	3.71	3.75	
	TRANSPORTATION AND PUBLIC UTILITIES	284.89	287.36	307.49	309.14	309.57	7.14	7.22	7.63	7.69	
	RAILROAD TRANSPORTATION:										
4011	Class 1 railroads	331.25	322.41	(*)	(*)	—	7.58	7.64	(*)	(*)	
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	178.70	181.66	215.65	188.24	—	5.21	5.22	5.86	5.67	
411	Local and suburban transportation	260.53	265.33	286.18	276.40	—	6.37	6.44	6.98	6.91	
413	Intercity highway transportation	284.60	286.52	313.36	302.85	—	7.63	7.56	8.29	8.32	
42	TRUCKING AND WAREHOUSING	294.76	295.97	317.90	318.76	—	7.26	7.29	7.83	7.89	
421, 3	Trucking and trucking terminals	301.51	302.40	325.19	326.03	—	7.39	7.43	7.99	8.05	
422	Public warehousing	201.74	200.06	217.33	221.43	—	5.24	5.21	5.53	5.62	
46	PIPE LINES, EXCEPT NATURAL GAS	332.52	337.43	355.97	366.39	—	8.15	8.23	8.64	8.85	
48	COMMUNICATION	274.28	284.40	302.30	305.88	—	6.84	7.11	7.52	7.59	
481	Telephone communication	283.91	295.40	314.61	318.24	—	7.01	7.33	7.73	7.80	
4817	Switchboard operating employees ³	207.68	221.50	229.91	230.40	—	5.85	6.17	6.44	6.49	
4818	Line construction employees ⁴	382.72	399.15	431.41	435.48	—	8.43	8.87	9.44	9.55	
483	Radio and television broadcasting	227.08	232.26	248.71	252.50	—	5.96	6.08	6.65	6.68	
49	ELECTRIC, GAS, AND SANITARY SERVICES ..	297.88	302.22	318.24	324.37	—	7.23	7.30	7.65	7.76	
491	Electric services	301.91	300.25	323.11	330.36	—	7.24	7.27	7.73	7.81	
492	Gas production and distribution	272.97	283.87	288.16	292.01	—	6.74	6.89	7.08	7.21	
493	Combination utility services	328.05	334.97	354.05	364.17	—	8.08	8.15	8.47	8.65	
495	Sanitary services	250.27	255.35	267.65	267.95	—	5.78	5.87	6.21	6.29	
—	WHOLESALE AND RETAIL TRADE	144.09	145.08	156.45	155.47	155.50	4.34	4.37	4.67	4.74	
50, 51	WHOLESALE TRADE	212.24	215.67	230.88	233.79	235.35	5.47	5.53	5.92	6.01	
50	WHOLESALE TRADE-DURABLE GOODS	215.76	220.02	234.04	236.79	—	5.49	5.57	5.91	6.01	
501	Motor vehicles and automotive equipment	194.66	196.83	214.82	215.34	—	5.03	5.06	5.48	5.55	
502	Furniture and home furnishings	186.50	187.49	202.77	203.58	—	4.96	4.96	5.35	5.40	
503	Lumber and construction materials	218.74	222.55	239.40	244.80	—	5.58	5.62	6.00	6.12	
504	Sporting goods, toys, and hobby goods	220.60	216.59	226.42	227.77	—	5.79	5.73	5.99	6.09	

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	41.1	40.8	40.4	41.1	-	3.5	3.1	3.3	3.8	-
2841	Soap and other detergents	43.0	42.4	44.2	44.0	-	5.4	4.8	5.8	5.8	-
2842, 3	Polishing, sanitation, and finishing preparations	40.8	40.5	40.4	40.6	-	3.2	2.7	3.3	3.5	-
2844	Toilet preparations	40.0	39.7	37.8	39.4	-	2.4	2.1	1.7	2.6	-
285	Paints and allied products	41.6	41.3	41.6	41.2	-	3.9	3.4	3.5	4.0	-
286	Industrial organic chemicals	42.9	42.5	42.2	42.9	-	3.8	3.9	3.7	4.5	-
2865	Cyclic crudes and intermediates	43.3	42.7	41.5	42.5	-	4.3	4.3	3.4	5.5	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	42.7	42.5	42.5	43.0	-	3.7	3.7	3.8	4.2	-
287	Agricultural chemicals	42.4	42.5	42.0	41.6	-	5.0	5.1	4.4	4.9	-
289	Miscellaneous chemical products	41.9	41.8	41.3	41.3	-	3.7	3.4	3.4	3.7	-
29	PETROLEUM AND COAL PRODUCTS	43.2	43.3	44.0	44.4	44.7	4.4	4.3	4.4	4.8	-
291	Petroleum refining	42.7	42.7	43.1	43.6	-	3.6	3.6	3.2	3.7	-
295	Paving and roofing materials	45.7	46.2	48.2	48.3	-	7.7	7.0	9.1	9.1	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	41.0	41.1	40.9	41.4	41.3	3.8	3.7	3.7	4.0	-
301	Tires and inner tubes	42.9	42.5	43.8	44.2	-	4.8	4.6	5.4	5.5	-
302	Rubber and plastics footwear	38.7	38.9	37.1	38.6	-	2.1	2.2	2.1	2.4	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.3	42.2	41.8	42.4	-	4.5	4.4	4.3	4.7	-
306	Fabricated rubber products, nec	40.7	40.9	40.2	41.1	-	3.2	3.3	3.3	3.6	-
307	Miscellaneous plastics products	40.7	40.8	40.4	40.8	-	3.7	3.6	3.4	3.7	-
31	LEATHER AND LEATHER PRODUCTS	36.9	37.2	37.3	37.1	36.3	1.9	2.0	1.7	1.8	-
311	Leather tanning and finishing	39.4	39.7	38.6	39.3	-	3.1	3.3	2.4	2.8	-
314	Footwear, except rubber	36.7	36.9	37.4	36.8	-	1.7	1.7	1.7	1.5	-
3143	Men's footwear, except athletic	38.2	38.3	38.1	38.0	-	2.0	2.0	1.6	1.5	-
3144	Women's footwear, except athletic	34.9	34.7	37.2	35.8	-	1.4	1.5	2.1	1.8	-
316	Luggage	36.3	36.3	36.2	37.6	-	1.7	1.8	1.5	3.0	-
317	Handbags and personal leather goods	37.4	38.4	37.5	37.7	-	2.4	2.6	2.1	2.4	-
-	TRANSPORTATION AND PUBLIC UTILITIES	39.9	39.8	40.3	40.2	40.1	-	-	-	-	-
4011	RAILROAD TRANSPORTATION: Class I railroads ²	43.7	42.2	(*)	(*)	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	34.3	34.8	36.8	33.2	-	-	-	-	-	-
411	Local and suburban transportation	40.9	41.2	41.0	40.0	-	-	-	-	-	-
413	Intercity highway transportation	37.3	37.9	37.8	36.4	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	40.6	40.6	40.6	40.4	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	40.8	40.7	40.7	40.5	-	-	-	-	-	-
422	Public warehousing	38.5	38.4	39.3	39.4	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	40.8	41.0	41.2	41.4	-	-	-	-	-	-
48	COMMUNICATION	40.1	40.0	40.2	40.3	-	-	-	-	-	-
481	Telephone communication	40.5	40.3	40.7	40.8	-	-	-	-	-	-
4817	Switchboard operating employees ³	35.5	35.9	35.7	35.5	-	-	-	-	-	-
4818	Line construction employees ⁴	45.4	45.0	45.7	45.6	-	-	-	-	-	-
483	Radio and television broadcasting	38.1	38.2	37.4	37.8	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.2	41.4	41.6	41.8	-	-	-	-	-	-
491	Electric services	41.7	41.3	41.8	42.3	-	-	-	-	-	-
492	Gas production and distribution	40.5	41.2	40.7	40.5	-	-	-	-	-	-
493	Combination utility services	40.6	41.1	41.8	42.1	-	-	-	-	-	-
495	Sanitary services	43.3	43.5	43.1	42.6	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	33.2	33.2	33.5	32.8	32.6	-	-	-	-	-
50, 51	WHOLESALE TRADE	38.8	39.0	39.0	38.9	38.9	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	39.3	39.5	39.6	39.4	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	38.7	38.9	39.2	38.8	-	-	-	-	-	-
502	Furniture and home furnishings	37.6	37.8	37.9	37.7	-	-	-	-	-	-
503	Lumber and construction materials	39.2	39.6	39.9	40.0	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	38.1	37.8	37.8	37.4	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	\$253.26	\$252.23	\$267.92	\$271.37	—	\$6.30	\$6.29	\$6.80	\$6.87	—
506	Electrical goods	215.00	223.49	234.42	238.73	—	5.57	5.76	5.98	6.09	—
507	Hardware, plumbing, and heating equipment	210.36	213.01	220.77	221.95	—	5.38	5.42	5.69	5.78	—
508	Machinery, equipment, and supplies	228.57	233.34	247.63	251.65	—	5.70	5.79	6.16	6.26	—
509	Miscellaneous durable goods	181.16	183.55	199.48	201.63	—	4.73	4.78	5.05	5.17	—
51	WHOLESALE TRADE-NONDURABLE GOODS	208.19	210.82	226.91	228.60	—	5.45	5.49	5.94	6.00	—
511	Paper and paper products	225.57	233.78	259.47	263.17	—	6.18	6.37	7.07	7.21	—
512	Drugs, proprietaries, and sundries	220.95	220.95	231.87	239.47	—	5.68	5.68	6.07	6.22	—
513	Apparel, piece goods, and notions	178.06	181.44	198.56	201.12	—	5.03	5.04	5.44	5.51	—
514	Groceries and related products	213.46	215.22	231.60	231.72	—	5.53	5.59	6.00	6.05	—
516	Chemicals and allied products	233.70	239.47	261.97	269.30	—	6.15	6.22	6.70	6.87	—
517	Petroleum and petroleum products	242.58	245.78	275.32	278.48	—	6.22	6.27	6.97	7.05	—
518	Beer, wine, and distilled beverages	245.24	243.70	267.52	267.81	—	6.42	6.43	7.04	7.18	—
519	Miscellaneous nondurable goods	173.81	175.34	181.61	184.24	—	4.55	4.59	4.83	4.90	—
52-59	RETAIL TRADE	122.85	123.09	133.24	131.02	\$131.09	3.90	3.92	4.19	4.24	\$4.27
52	BUILDING MATERIALS AND GARDEN SUPPLIES	167.45	167.83	182.83	182.40	—	4.43	4.44	4.70	4.80	—
521	Lumber and other building materials	187.73	188.07	203.77	202.51	—	4.67	4.69	4.97	5.05	—
525	Hardware stores	129.58	129.20	137.74	136.62	—	3.65	3.66	3.88	3.96	—
53	GENERAL MERCHANDISE STORES	113.48	113.40	122.81	119.60	—	3.77	3.78	4.08	4.11	—
531	Department stores	118.99	118.59	127.93	124.98	—	3.94	3.94	4.25	4.28	—
533	Variety stores	89.69	88.46	101.78	98.33	—	3.03	3.04	3.45	3.45	—
539	Misc. general merchandise stores	93.31	91.81	98.56	96.25	—	3.01	3.01	3.20	3.23	—
54	FOOD STORES	158.60	157.46	172.26	169.60	—	4.85	4.89	5.22	5.30	—
541	Grocery stores	165.17	163.80	178.82	176.04	—	4.99	5.04	5.37	5.45	—
546	Retail bakeries	107.68	108.11	118.86	116.61	—	3.65	3.64	3.91	3.98	—
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	171.91	173.20	187.98	185.01	—	4.56	4.57	4.96	4.96	—
551, 2	New and used car dealers	211.69	214.11	231.55	227.84	—	5.47	5.49	6.03	5.98	—
553	Auto and home supply stores	173.42	171.77	188.10	184.20	—	4.09	4.08	4.50	4.46	—
554	Gasoline service stations	121.45	121.10	130.68	127.35	—	3.48	3.46	3.64	3.67	—
56	APPAREL AND ACCESSORY STORES	104.25	105.14	112.48	111.97	—	3.51	3.54	3.70	3.77	—
561	Men's and boys' clothing and furnishings	127.59	130.25	136.83	136.10	—	3.95	4.02	4.21	4.24	—
562	Women's ready-to-wear stores	92.38	93.02	98.84	96.47	—	3.23	3.23	3.42	3.47	—
565	Family clothing stores	96.55	95.58	110.18	110.41	—	3.24	3.24	3.52	3.55	—
566	Shoe stores	116.70	116.32	120.78	124.44	—	3.89	3.97	3.96	4.19	—
57	FURNITURE AND HOME FURNISHINGS STORES	158.30	158.75	172.68	172.89	—	4.51	4.51	4.81	4.87	—
571	Furniture and home furnishings	164.50	165.20	177.15	176.20	—	4.66	4.68	4.99	5.02	—
572	Household appliance stores	168.26	171.76	184.88	185.93	—	4.70	4.68	4.93	5.08	—
573	Radio, television, and music stores	133.96	133.72	153.06	156.45	—	3.94	3.91	4.24	4.37	—
58	EATING AND DRINKING PLACES⁵	81.72	81.99	89.96	88.08	—	2.95	2.96	3.19	3.25	—
59	MISCELLANEOUS RETAIL	124.80	125.39	135.63	132.80	—	3.84	3.87	4.11	4.15	—
591	Drug stores and proprietary stores	113.28	112.18	124.29	119.89	—	3.69	3.69	3.86	3.88	—
594	Miscellaneous shopping goods stores	112.25	112.14	124.09	119.74	—	3.53	3.56	3.83	3.85	—
596	Nonstore retailers	155.32	153.47	166.82	165.58	—	4.40	4.36	4.78	4.87	—
598	Fuel and ice dealers	192.17	205.13	198.83	204.75	—	4.94	5.09	5.26	5.36	—
599	Retail stores, nec	120.26	122.36	135.46	134.60	—	3.77	3.80	4.13	4.18	—
	FINANCE, INSURANCE, AND REAL ESTATE⁶	166.25	169.36	179.71	180.91	184.46	4.58	4.64	4.91	4.97	5.04
60	BANKING	144.54	147.23	154.09	155.98	—	3.96	3.99	4.21	4.25	—
602	Commercial and stock savings banks	141.62	144.28	150.79	153.04	—	3.88	3.91	4.12	4.17	—
61	CREDIT AGENCIES OTHER THAN BANKS	152.40	154.82	163.47	162.79	—	4.13	4.23	4.43	4.46	—
612	Savings and loan associations	144.47	149.33	153.97	154.21	—	3.98	4.08	4.23	4.26	—
614	Personal credit institutions	150.00	148.56	160.95	160.31	—	4.00	4.07	4.35	4.38	—
63	INSURANCE CARRIERS	183.77	186.00	195.83	195.52	—	4.94	5.00	5.25	5.27	—
631	Life insurance	183.50	185.47	194.09	194.46	—	5.00	5.04	5.26	5.27	—
632	Medical service and health insurance	177.47	181.82	186.73	187.88	—	4.72	4.81	4.94	5.01	—
633	Fire, marine, and casualty insurance	185.38	187.36	199.18	197.95	—	4.97	5.05	5.34	5.35	—

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	40.2	40.1	39.4	39.5	—	—	—	—	—	
506	Electrical goods	38.6	38.8	39.2	39.2	—	—	—	—	—	
507	Hardware, plumbing, and heating equipment	39.1	39.3	38.8	38.4	—	—	—	—	—	
508	Machinery, equipment, and supplies	40.1	40.3	40.2	40.2	—	—	—	—	—	
509	Miscellaneous durable goods	38.3	38.4	39.5	39.0	—	—	—	—	—	
51	WHOLESALE TRADE-NONDURABLE GOODS ..	38.2	38.4	38.2	38.1	—	—	—	—	—	
511	Paper and paper products	36.5	36.7	36.7	36.5	—	—	—	—	—	
512	Drugs, proprietaries, and sundries	38.9	38.9	38.2	38.5	—	—	—	—	—	
513	Apparel, piece goods, and notions	35.4	36.0	36.5	36.5	—	—	—	—	—	
514	Groceries and related products	38.6	38.5	38.6	38.3	—	—	—	—	—	
516	Chemicals and allied products	38.0	38.5	39.1	39.2	—	—	—	—	—	
517	Petroleum and petroleum products	39.0	39.2	39.5	39.5	—	—	—	—	—	
518	Beer, wine, and distilled beverages	38.2	37.9	38.0	37.3	—	—	—	—	—	
519	Miscellaneous nondurable goods	38.2	38.2	37.6	37.6	—	—	—	—	—	
52-59	RETAIL TRADE	31.5	31.4	31.8	30.9	30.7	—	—	—	—	
52	BUILDING MATERIALS AND GARDEN SUPPLIES										
521	Lumber and other building materials	37.8	37.8	38.9	38.0	—	—	—	—	—	
525	Hardware stores	40.2	40.1	41.0	40.1	—	—	—	—	—	
		35.5	35.3	35.5	34.5	—	—	—	—	—	
53	GENERAL MERCHANDISE STORES	30.1	30.0	30.1	29.1	—	—	—	—	—	
531	Department stores	30.2	30.1	30.1	29.2	—	—	—	—	—	
533	Variety stores	29.6	29.1	29.5	28.5	—	—	—	—	—	
539	Misc. general merchandise stores	31.0	30.5	30.8	29.8	—	—	—	—	—	
54	FOOD STORES	32.7	32.2	33.0	32.0	—	—	—	—	—	
541	Grocery stores	33.1	32.5	33.3	32.3	—	—	—	—	—	
546	Retail bakeries	29.5	29.7	30.4	29.3	—	—	—	—	—	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.7	37.9	37.9	37.3	—	—	—	—	—	
551, 2	New and used car dealers	38.7	39.0	38.4	38.1	—	—	—	—	—	
553	Auto and home supply stores	42.4	42.1	41.8	41.3	—	—	—	—	—	
554	Gasoline service stations	34.9	35.0	35.9	34.7	—	—	—	—	—	
56	APPAREL AND ACCESSORY STORES	29.7	29.7	30.4	29.7	—	—	—	—	—	
561	Men's and boys' clothing and furnishings	32.3	32.4	32.5	32.1	—	—	—	—	—	
562	Women's ready-to-wear stores	28.6	28.8	28.9	27.8	—	—	—	—	—	
565	Family clothing stores	29.8	29.5	31.3	31.1	—	—	—	—	—	
566	Shoe stores	30.0	29.3	30.5	29.7	—	—	—	—	—	
57	FURNITURE AND HOME FURNISHINGS STORES	35.1	35.2	35.9	35.5	—	—	—	—	—	
571	Furniture and home furnishings	35.5	35.3	35.5	35.1	—	—	—	—	—	
572	Household appliance stores	35.8	36.7	37.5	36.6	—	—	—	—	—	
573	Radio, television, and music stores	34.0	34.2	36.1	35.8	—	—	—	—	—	
58	EATING AND DRINKING PLACES⁵	27.7	27.7	28.2	27.1	—	—	—	—	—	
59	MISCELLANEOUS RETAIL	32.5	32.4	33.0	32.0	—	—	—	—	—	
591	Drug stores and proprietary stores	30.7	30.4	32.2	30.9	—	—	—	—	—	
594	Miscellaneous shopping goods stores	31.8	31.5	32.4	31.1	—	—	—	—	—	
596	Nonstore retailers	35.3	35.2	34.9	34.0	—	—	—	—	—	
598	Fuel and ice dealers	38.9	40.3	37.8	38.2	—	—	—	—	—	
599	Retail stores, nec	31.9	32.2	32.8	32.2	—	—	—	—	—	
	FINANCE, INSURANCE, AND REAL ESTATE⁶	36.3	36.5	36.6	36.4	36.6	—	—	—	—	
60	BANKING	36.5	36.9	36.6	36.7	—	—	—	—	—	
602	Commercial and stock savings banks	36.5	36.9	36.6	36.7	—	—	—	—	—	
61	CREDIT AGENCIES OTHER THAN BANKS	36.9	36.6	36.9	36.5	—	—	—	—	—	
612	Savings and loan associations	36.3	36.6	36.4	36.2	—	—	—	—	—	
614	Personal credit institutions	37.5	36.5	37.0	36.6	—	—	—	—	—	
63	INSURANCE CARRIERS	37.2	37.2	37.3	37.1	—	—	—	—	—	
631	Life insurance	36.7	36.8	36.9	36.9	—	—	—	—	—	
632	Medical service and health insurance	37.6	37.8	37.8	37.5	—	—	—	—	—	
633	Fire, marine, and casualty insurance	37.3	37.1	37.3	37.0	—	—	—	—	—	

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				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^p	Oct. 1978 ^p	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^p	Oct. 1978 ^p
	SERVICES	\$154.96	\$157.56	\$164.01	\$165.46	\$166.44	\$4.71	\$4.76	\$4.94	\$5.06	\$5.09
701	HOTELS AND OTHER LODGING PLACES:										
	Hotels, motels, and tourist courts	103.56	105.86	113.96	114.19		3.33	3.37	3.55	3.66	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	119.37	121.45	131.20	130.77		3.45	3.48	3.77	3.77	-
723	Beauty shops	118.38	117.71	118.50	116.05		3.77	3.69	3.86	3.78	-
73	BUSINESS SERVICES	158.75	160.39	169.65	168.54	-	4.84	4.89	5.11	5.17	-
731	Advertising	242.42	243.83	258.84	259.92	-	6.66	6.83	7.17	7.20	-
734	Services to buildings	118.44	121.12	122.82	122.40	-	4.20	4.28	4.45	4.50	-
737	Computer and data processing services	197.27	200.02	212.34	215.16	-	5.39	5.45	5.77	5.96	-
75	AUTO REPAIR, SERVICES, AND GARAGES ...	171.95	174.37	190.88	189.35	-	4.66	4.70	5.01	5.09	-
753	Automotive repair shops	196.72	199.92	214.38	215.60	-	5.07	5.10	5.40	5.50	-
76	MISCELLANEOUS REPAIR SERVICES	234.09	236.12	245.62	246.65	-	5.78	5.83	6.11	6.09	-
78	MOTION PICTURES	175.71	184.34	192.28	191.36	-	6.08	6.27	6.54	6.81	-
781	Motion picture production and services	330.88	342.11	373.60	374.68	-	8.80	8.84	9.78	9.86	-
79	AMUSEMENT AND RECREATION SERVICES ..	131.21	135.08	143.47	145.35	-	4.26	4.40	4.27	4.75	-
80	HEALTH SERVICES	147.84	148.50	159.17	161.02	-	4.48	4.50	4.78	4.85	-
801	Offices of physicians	157.31	158.12	164.67	167.99	-	4.71	4.72	4.96	5.06	-
802	Offices of dentists	129.61	132.31	136.71	135.61	-	4.58	4.61	4.65	4.66	-
805	Nursing and personal care facilities	102.61	102.94	112.37	112.94	-	3.31	3.31	3.59	3.62	-
806	Hospitals	161.16	162.04	174.75	176.47	-	4.74	4.78	5.08	5.16	-
81	LEGAL SERVICES	203.00	204.34	211.54	211.05	-	5.85	5.94	6.24	6.30	-
89	MISCELLANEOUS SERVICES	262.05	265.42	274.56	276.64	-	6.86	6.93	7.15	7.28	-
891	Engineering and architectural services	285.19	287.23	294.00	298.76	-	7.22	7.29	7.50	7.70	-
893	Accounting, auditing, and bookkeeping	220.22	226.50	238.52	235.99	-	5.92	6.04	6.31	6.31	-

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.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	SERVICES	32.9	33.1	33.2	32.7	32.7					
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	31.1	31.4	32.1	31.2						
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	34.6	34.9	34.8	34.5	-	-	-	-	-	
723	Beauty shops	31.4	31.9	30.7	30.7	-	-	-	-	-	
	BUSINESS SERVICES	32.8	32.8	33.2	32.6	-	-	-	-	-	
731	Advertising	36.4	35.7	36.1	36.1	-	-	-	-	-	
734	Services to buildings	28.2	28.3	27.6	27.2	-	-	-	-	-	
737	Computer and data processing services	36.6	36.7	36.8	36.1	-	-	-	-	-	
	AUTO REPAIR, SERVICES, AND GARAGES	36.9	37.1	38.1	37.2	-	-	-	-	-	
753	Automotive repair shops	38.8	39.2	39.7	39.2	-	-	-	-	-	
	MISCELLANEOUS REPAIR SERVICES	40.5	40.5	40.2	40.5	-	-	-	-	-	
	MOTION PICTURES	28.9	29.4	29.4	28.1	-	-	-	-	-	
781	Motion picture production and services	37.6	38.7	38.2	38.0	-	-	-	-	-	
	AMUSEMENT AND RECREATION SERVICES	30.8	30.7	33.6	30.6	-	-	-	-	-	
	HEALTH SERVICES	33.0	33.0	33.3	33.2	-	-	-	-	-	
801	Offices of physicians	33.4	33.5	33.2	33.2	-	-	-	-	-	
802	Offices of dentists	28.3	28.7	29.4	29.1	-	-	-	-	-	
805	Nursing and personal care facilities	31.0	31.1	31.3	31.2	-	-	-	-	-	
806	Hospitals	34.0	33.9	34.4	34.2	-	-	-	-	-	
	LEGAL SERVICES	34.7	34.4	33.9	33.5	-	-	-	-	-	
	MISCELLANEOUS SERVICES	38.2	38.3	38.4	38.0	-	-	-	-	-	
891	Engineering and architectural services	39.5	39.4	39.2	38.8	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.2	37.5	37.8	37.4	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

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

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

Item	1977							1978					
	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Executive Branch													
Total employment	2,712.3	2,720.5	2,704.2	2,665.4	2,662.5	2,664.3	2,673.1	2,659.5	2,668.2	2,672.9	2,686.7	2,702.9	2,747.5
Average weekly hours	39.3	39.7	39.7	39.4	39.8	39.4	40.0	39.6	39.9	39.6	39.6	39.5	39.6
Average overtime hours	1.0	1.1	1.2	1.3	1.2	1.1	1.6	1.2	1.2	1.1	1.1	1.1	1.1
Indexes (1967=100):													
Average weekly earnings	208.9	211.1	212.7	214.9	226.9	225.9	230.5	229.0	230.2	227.4	226.5	226.0	226.5
Average hourly earnings	209.5	209.5	211.1	214.9	224.6	225.9	227.0	227.8	227.3	226.2	225.4	225.4	225.4
Department of Defense													
Total employment	932.0	931.6	922.0	909.1	907.8	909.8	907.7	906.4	906.0	905.6	905.4	911.3	924.8
Average weekly hours	39.9	40.0	40.0	39.9	39.9	39.8	40.0	39.9	40.1	40.0	40.1	40.0	40.0
Average overtime hours .....	.8	.7	.8	1.1	.9	.9	.8	.7	.8	.9	.9	.9	1.0
Indexes (1967=100):													
Average weekly earnings	203.7	203.4	204.2	208.0	217.4	220.9	220.4	221.8	222.3	221.5	222.1	222.0	221.5
Average hourly earnings	205.7	204.9	205.7	210.1	219.6	223.7	222.1	224.0	223.4	223.2	223.2	223.7	223.2
Postal Service													
Total employment	655.6	657.5	656.8	655.0	649.2	650.2	668.2	645.6	646.9	647.6	647.9	648.3	648.3
Average weekly hours	39.3	40.4	39.9	40.1	41.2	39.8	41.8	41.1	41.5	40.4	40.1	39.9	40.0
Average overtime hours	1.1	1.5	1.4	1.7	2.0	1.5	3.5	2.5	2.1	1.7	1.5	1.5	1.6
Indexes (1967=100):													
Average weekly earnings	235.0	241.9	248.6	251.5	259.0	253.4	271.7	253.9	266.5	258.5	256.2	254.3	259.7
Average hourly earnings	230.8	231.1	240.5	242.1	242.7	245.7	250.9	249.9	247.9	247.0	246.6	246.0	250.6
Other Agencies													
Total employment	1,124.7	1,131.4	1,125.9	1,101.3	1,105.5	1,104.3	1,097.2	1,107.5	1,115.3	1,119.7	1,133.4	1,143.3	1,174.4
Average weekly hours	38.6	39.0	39.3	38.7	38.8	38.9	38.8	38.5	38.9	38.8	38.9	38.8	39.0
Average overtime hours	1.1	1.3	1.5	1.2	1.1	1.1	1.0	.9	1.0	1.0	1.0	1.0	1.0
Indexes (1967=100):													
Average weekly earnings	197.5	200.5	200.1	201.7	216.6	215.4	216.1	216.6	217.6	215.1	214.1	213.4	212.0
Average hourly earnings	198.5	199.5	197.5	202.2	216.6	214.9	216.1	218.3	217.1	215.1	213.6	213.4	210.9

NOTE: The hours and earnings averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from agencies with 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				
	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^p	Oct. 1978 ^p
MANUFACTURING	\$5.53	\$5.56	\$5.90	\$5.99	\$6.04
DURABLE GOODS	5.89	5.94	6.28	6.39	6.44
Lumber and wood products	4.99	5.01	5.41	5.47	-
Furniture and fixtures	4.27	4.28	4.56	4.59	-
Stone, clay, and glass products	5.58	5.60	6.03	6.08	-
Primary metal industries	7.29	7.33	7.91	8.01	-
Fabricated metal products	5.73	5.78	6.07	6.14	-
Machinery, except electrical	6.07	6.13	6.44	6.53	-
Electric and electronic equipment	5.31	5.33	5.67	5.72	-
Transportation equipment	6.95	7.09	7.38	7.56	-
Instruments and related products	5.21	5.22	5.56	5.58	-
Miscellaneous manufacturing industries	4.27	4.28	4.56	4.59	-
NONDURABLE GOODS	4.98	5.00	5.33	5.38	5.41
Food and kindred products	5.15	5.17	5.50	5.55	-
Tobacco manufactures	5.38	5.33	6.14	5.92	-
Textile mill products	3.92	3.92	4.19	4.22	-
Apparel and other textile products	3.61	3.62	3.86	3.92	-
Paper and allied products	5.77	5.80	6.21	6.27	-
Printing and publishing	(^a)	(^a)	(^a)	(^a)	-
Chemicals and allied products	6.29	6.35	6.78	6.82	-
Petroleum and coal products	7.50	7.54	8.17	8.21	-
Rubber and misc. plastics products	4.98	5.00	5.30	5.32	-
Leather and leather products	3.55	3.57	3.78	3.83	-

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

^p preliminary.

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

ESTABLISHMENT DATA HOURS AND EARNINGS

C-5. Gross and spendable average weekly earnings of production or nonsupervisory 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		
	Sept. 1977	Aug. 1978	Sept. 1978 ^p	Sept. 1977	Aug. 1978	Sept. 1978 ^p	Sept. 1977	Aug. 1978	Sept. 1978 ^p
TOTAL PRIVATE:									
Current dollars	\$193.14	\$206.70	\$208.58	\$159.69	\$167.55	\$168.90	\$175.96	\$182.96	\$184.37
1967 dollars	104.97	104.55	104.76	86.79	84.75	84.83	95.63	92.54	92.60
MINING:									
Current dollars	314.43	338.09	343.01	240.32	255.61	258.87	265.64	280.26	283.96
1967 dollars	170.89	171.01	172.28	130.61	129.29	130.02	144.37	141.76	142.62
CONSTRUCTION:									
Current dollars	303.14	330.49	332.63	232.97	250.82	252.17	257.78	274.79	276.33
1967 dollars	164.75	167.17	167.07	126.61	126.87	126.65	140.10	138.99	138.79
MANUFACTURING:									
Current dollars	235.65	248.86	256.22	189.30	197.12	202.05	207.95	214.56	220.13
1967 dollars	128.07	125.88	128.69	102.88	99.71	101.48	113.02	108.53	110.56
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	284.89	307.49	309.14	221.17	235.97	237.05	244.80	258.24	259.43
1967 dollars	154.83	155.53	155.27	120.20	119.36	119.06	133.04	130.62	130.30
WHOLESALE AND RETAIL TRADE:									
Current dollars	144.09	156.45	155.47	123.26	130.93	130.19	135.66	144.29	143.51
1967 dollars	78.31	79.14	78.09	66.99	66.23	65.39	73.73	72.98	72.08
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	166.25	179.71	180.91	139.99	148.13	148.99	154.74	162.41	163.33
1967 dollars	90.35	90.90	90.86	76.08	74.93	74.83	84.10	82.15	82.03
SERVICES:									
Current dollars	154.96	164.01	165.46	131.43	136.60	137.68	145.81	150.19	151.32
1967 dollars	84.22	82.96	83.10	71.43	69.09	69.15	79.24	75.97	76.00
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	184.0	197.7	199.1	NOTE: The Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W) is an estimate of the average change in the prices of goods and services purchased by those consumers, and is used to deflate the current dollar values in this table to the 1967 dollar values shown. A major revision in the Consumer Price Index (revised CPI-W) was introduced with data for January 1978. Data prior to January 1978 in 1967 dollars are based on the unrevised Consumer Price Index for Urban Wage Earners and Clerical Workers (unrevised CPI-W).					

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).

The data for spendable earnings for the seven month period June-December 1977 are calcu-

lated from formulas which concentrate the full year's effect of tax reduction in those seven months. 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	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978 ^P	Oct. 1978 ^P
	Hours				
TOTAL PRIVATE	118.2	118.3	123.4	122.8	122.9
GOODS-PRODUCING	104.7	104.4	108.5	109.9	110.1
MINING	140.7	141.7	147.8	146.8	150.1
CONSTRUCTION	117.2	118.2	137.1	133.9	136.1
MANUFACTURING	101.3	100.7	102.0	104.4	104.1
DURABLE GOODS	101.8	101.7	103.1	106.6	107.2
Lumber and wood products	115.2	114.7	117.5	116.4	115.8
Furniture and fixtures	107.1	109.3	108.7	109.4	110.2
Stone, clay, and glass products	109.6	109.2	114.9	114.0	115.5
Primary metal industries	92.7	91.3	94.9	97.5	98.1
Fabricated metal products	100.3	101.1	102.2	104.8	105.2
Machinery, except electrical	104.2	104.3	108.6	112.4	113.2
Electric and electronic equipment	99.2	99.0	100.5	102.8	102.7
Transportation equipment	97.5	96.6	90.6	101.1	101.9
Instruments and related products	115.2	115.7	123.3	125.1	125.9
Miscellaneous manufacturing industries	101.2	102.6	103.4	106.0	107.3
NONDURABLE GOODS	100.5	99.2	100.5	101.1	99.6
Food and kindred products	105.7	98.3	102.0	103.2	98.2
Tobacco manufactures	87.9	88.1	78.4	85.2	87.4
Textile mill products	93.2	93.2	92.5	93.0	91.7
Apparel and other textile products	91.4	92.5	91.8	92.2	91.7
Paper and allied products	101.1	100.0	100.7	101.2	99.7
Printing and publishing	97.6	97.6	98.9	98.8	98.7
Chemicals and allied products	104.9	104.2	106.7	106.8	106.3
Petroleum and coal products	120.0	120.1	126.7	126.3	126.4
Rubber and misc. plastics products	142.1	143.2	146.1	149.4	150.6
Leather and leather products	67.9	69.7	70.5	68.9	66.4
SERVICE-PRODUCING	127.5	128.0	133.7	131.7	131.8
TRANSPORTATION AND PUBLIC UTILITIES	107.7	106.6	109.3	109.8	110.4
WHOLESALE AND RETAIL TRADE	123.8	124.2	130.1	127.9	127.9
WHOLESALE TRADE	122.1	123.2	127.6	127.6	128.8
RETAIL TRADE	124.4	124.6	131.1	127.9	127.5
FINANCE, INSURANCE, AND REAL ESTATE	132.0	133.0	141.1	139.6	140.5
SERVICES	140.5	141.7	147.8	144.9	144.8

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	Sept. 1977	Oct. 1977	Aug. 1978	Sept. 1978P	Oct. 1978P
	Payrolls				
TOTAL PRIVATE	236.0	238.0	262.7	266.3	268.7
GOODS-PRODUCING	216.2	216.8	240.4	247.4	249.6
MINING	314.6	317.6	361.2	365.5	372.7
CONSTRUCTION	235.4	238.2	290.9	288.7	294.2
MANUFACTURING	207.5	207.4	222.7	232.1	233.2
DURABLE GOODS	209.9	211.2	225.9	238.6	241.7
Lumber and wood products	255.2	255.0	282.0	282.4	280.4
Furniture and fixtures	204.4	209.3	220.5	223.9	227.2
Stone, clay, and glass products	229.8	230.1	260.9	261.1	266.1
Primary metal industries	212.2	209.4	236.0	246.2	249.3
Fabricated metal products	202.4	205.7	217.8	226.7	228.7
Machinery, except electrical	208.6	210.9	229.6	242.6	245.6
Electric and electronic equipment	197.0	196.9	212.8	220.1	221.0
Transportation equipment	209.3	212.0	205.4	237.1	243.7
Instruments and related products	217.8	219.1	247.8	253.4	255.0
Miscellaneous manufacturing industries	190.1	193.2	207.1	213.8	217.9
NONDURABLE GOODS	203.4	200.8	217.1	221.0	218.8
Food and kindred products	218.4	202.6	224.3	229.5	218.6
Tobacco manufactures	216.4	214.6	217.7	229.0	235.5
Textile mill products	185.9	185.9	196.8	199.7	197.1
Apparel and other textile products	165.7	168.2	177.7	181.7	182.0
Paper and allied products	215.4	214.0	231.0	235.3	232.5
Printing and publishing	185.1	185.7	196.4	198.2	199.0
Chemicals and allied products	222.0	222.3	242.6	245.3	245.8
Petroleum and coal products	265.9	267.0	304.0	305.7	310.0
Rubber and misc. plastics products	270.2	272.9	294.8	303.5	309.5
Leather and leather products	119.8	123.8	132.0	130.7	127.8
SERVICE-PRODUCING	253.0	256.3	281.9	282.6	285.1
TRANSPORTATION AND PUBLIC UTILITIES	237.9	238.0	257.9	260.9	263.3
WHOLESALE AND RETAIL TRADE	238.2	240.9	269.5	268.8	270.7
WHOLESALE TRADE	232.4	237.0	262.6	266.4	270.6
RETAIL TRADE	241.5	243.1	273.4	270.2	270.8
FINANCE, INSURANCE, AND REAL ESTATE	233.8	239.1	268.2	268.4	274.3
SERVICES	289.0	294.6	318.6	320.0	322.2

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

p=preliminary.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED HOURS**

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

Industry	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^P	Oct. ^P
TOTAL PRIVATE	36.1	36.0	35.9	35.5	35.7	36.0	36.1	35.9	35.9	35.9	35.8	35.8	35.8
MINING	43.7	43.7	42.9	42.8	43.2	43.7	44.0	43.4	43.4	43.0	43.6	42.7	43.3
CONSTRUCTION	36.3	36.4	36.2	34.3	35.6	36.9	37.3	36.6	37.3	37.3	37.1	37.0	36.9
MANUFACTURING	40.5	40.5	40.5	39.8	40.1	40.6	40.8	40.4	40.5	40.5	40.3	40.4	40.5
<i>Overtime hours</i>	3.5	3.6	3.6	3.5	3.7	3.7	3.8	3.5	3.6	3.6	3.4	3.6	3.6
DURABLE GOODS	41.2	41.2	41.2	40.4	40.7	41.3	41.4	41.0	41.2	41.2	41.0	41.1	41.2
<i>Overtime hours</i>	3.8	3.8	3.8	3.7	4.0	3.9	4.0	3.7	3.7	3.8	3.6	3.8	3.9
Lumber and wood products	40.1	40.0	40.0	39.3	39.6	39.9	40.2	39.5	40.0	39.8	39.3	39.7	39.8
Furniture and fixtures	39.5	39.5	39.6	38.4	40.0	40.1	40.1	39.4	39.5	39.3	39.0	38.8	38.8
Stone, clay, and glass products	41.0	41.5	41.3	40.0	40.9	41.8	42.0	41.6	41.9	41.7	41.6	41.8	42.0
Primary metal industries	41.5	41.5	41.6	41.4	41.6	41.5	41.5	41.7	41.8	41.8	42.0	41.8	42.4
Fabricated metal products	41.0	41.0	41.2	40.3	40.7	41.3	41.4	41.1	41.0	41.0	40.9	40.9	40.7
Machinery, except electrical	41.9	41.9	41.9	41.1	41.8	42.3	42.3	42.1	42.3	42.2	41.8	42.0	42.0
Electric and electronic equipment	40.5	40.5	40.5	39.7	40.0	40.6	40.4	40.2	40.2	40.7	40.4	40.2	40.3
Transportation equipment	42.9	42.6	42.4	41.6	40.9	42.1	42.4	41.8	42.0	42.1	41.8	42.4	42.6
Instruments and related products	40.8	40.6	40.5	40.4	40.6	41.3	41.4	40.8	40.8	40.7	41.0	41.1	40.9
Miscellaneous manufacturing ind	38.9	38.9	38.6	38.0	38.3	39.0	39.1	38.8	38.8	38.8	39.0	39.0	38.9
NONDURABLE GOODS	39.4	39.5	39.4	38.8	39.1	39.7	39.8	39.5	39.4	39.4	39.3	39.4	39.3
<i>Overtime hours</i>	3.1	3.2	3.3	3.2	3.3	3.3	3.4	3.2	3.1	3.2	3.2	3.2	3.2
Food and kindred products	39.7	40.1	39.9	39.7	39.7	40.0	40.1	39.8	39.6	39.8	39.5	39.5	39.8
Tobacco manufactures	38.1	38.5	38.0	37.6	38.3	38.9	38.7	38.7	39.6	38.6	37.7	37.8	38.2
Textile mill products	40.6	40.7	40.5	40.3	40.3	40.8	40.9	40.5	40.3	40.2	40.4	40.3	40.2
Apparel and other textile products	35.6	35.8	35.9	33.7	35.5	36.0	36.3	35.9	35.8	35.8	35.6	35.7	35.3
Paper and allied products	42.8	42.8	42.9	42.5	42.5	43.4	43.5	42.9	42.9	42.9	42.7	42.7	42.7
Printing and publishing	37.9	37.8	37.6	37.4	37.4	38.0	37.9	37.3	37.5	37.6	37.4	37.8	37.6
Chemicals and allied products	41.7	41.7	41.7	41.6	41.6	42.1	42.0	41.9	41.9	41.8	41.9	41.9	41.8
Petroleum and coal products	42.9	42.8	43.4	43.1	42.8	43.3	43.6	42.9	43.4	43.9	44.3	43.8	44.3
Rubber and misc. plastics products	40.8	40.8	40.6	40.2	39.8	40.7	41.3	41.1	41.1	40.9	40.9	41.1	41.0
Leather and leather products	37.2	37.4	37.0	36.5	36.4	37.1	38.1	37.6	37.4	37.2	37.1	37.3	36.3
TRANSPORTATION AND PUBLIC UTILITIES	39.8	40.2	40.0	40.0	40.1	40.4	40.0	40.2	40.1	39.6	39.9	40.1	40.1
WHOLESALE AND RETAIL TRADE	33.4	33.1	33.1	32.7	32.7	33.0	33.0	32.9	32.8	32.9	32.8	32.8	32.8
WHOLESALE TRADE	38.9	38.8	38.8	38.7	38.7	38.9	39.0	38.7	38.8	38.7	38.8	38.9	38.8
RETAIL TRADE	31.7	31.4	31.4	30.9	30.9	31.2	31.2	31.1	31.0	31.1	30.9	30.9	30.9
FINANCE, INSURANCE, AND REAL ESTATE	36.5	36.4	36.4	36.3	36.3	36.3	36.7	36.3	36.5	36.6	36.5	36.5	36.6
SERVICES	33.2	33.0	33.0	33.0	32.9	33.0	33.0	32.9	32.8	32.8	32.7	32.8	32.8

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

^Ppreliminary.

**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	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^P	Oct. ^P
TOTAL PRIVATE	117.0	117.4	117.5	116.2	117.1	119.1	120.4	120.0	120.6	120.6	120.4	120.8	121.4
GOODS-PRODUCING	101.2	102.0	101.6	99.3	100.9	103.6	106.0	105.1	106.0	106.1	105.4	105.5	106.5
MINING	138.8	139.7	107.8	105.6	106.8	111.3	144.2	143.1	144.0	143.5	145.7	144.0	147.1
CONSTRUCTION	107.6	108.7	108.6	100.3	104.2	111.5	118.8	117.1	122.8	124.2	122.8	122.2	123.7
MANUFACTURING	98.8	99.5	100.2	98.9	100.1	102.0	102.5	101.6	101.7	101.6	101.0	101.2	102.1
DURABLE GOODS	100.1	100.8	101.7	100.5	101.9	103.9	104.2	103.5	103.8	104.0	103.5	103.9	105.5
Lumber and wood products	111.9	113.2	114.5	113.2	114.0	114.3	115.0	111.8	113.6	112.3	110.7	111.8	112.8
Furniture and fixtures	105.9	107.0	108.9	106.1	111.1	112.5	112.5	110.3	109.5	108.3	106.4	105.6	106.7
Stone, clay, and glass products	105.3	108.6	109.0	106.4	108.4	111.0	112.7	111.4	112.4	111.1	109.8	110.1	111.5
Primary metal industries	91.7	91.6	91.9	92.2	93.4	92.8	92.9	93.9	94.1	94.4	95.3	95.7	98.3
Fabricated metal products	99.2	100.1	101.1	99.4	101.4	102.9	103.5	103.3	102.4	102.0	101.8	102.0	103.2
Machinery, except electrical	104.6	105.1	106.2	104.6	107.1	109.4	110.1	109.5	111.3	112.1	110.8	111.5	113.5
Electric and electronic equipment	97.4	98.1	98.6	97.3	98.8	101.2	100.4	99.8	99.8	101.8	101.1	100.3	101.1
Transportation equipment	94.5	94.1	95.7	94.9	93.7	97.2	97.5	96.6	95.8	96.2	96.1	97.6	99.7
Instruments and related products	115.0	115.1	116.0	116.3	117.5	120.5	121.7	120.8	122.4	123.6	123.9	123.9	125.1
Miscellaneous manufacturing ind	96.5	97.7	99.0	97.4	99.0	102.0	102.6	101.5	101.4	99.8	100.6	100.6	101.2
NONDURABLE GOODS	96.8	97.6	97.9	96.5	97.4	99.2	99.9	98.9	98.7	98.1	97.2	97.3	97.2
Food and kindred products	92.5	94.3	94.6	94.5	94.7	96.2	96.4	94.6	94.0	93.6	91.4	91.4	92.5
Tobacco manufactures	76.3	77.1	78.7	77.9	79.4	82.0	80.2	81.5	84.1	78.6	71.5	74.3	76.4
Textile mill products	92.9	93.7	93.0	92.6	92.5	93.7	93.4	92.6	91.8	91.5	91.2	91.7	91.4
Apparel and other textile products	89.9	90.8	91.1	85.6	90.1	91.6	93.2	91.9	91.4	90.1	90.1	90.2	89.3
Paper and allied products	98.8	98.6	99.6	98.7	99.1	101.6	102.4	101.9	101.9	101.9	99.2	99.2	98.4
Printing and publishing	97.0	96.9	96.7	96.7	96.9	99.3	99.1	98.2	98.6	99.1	98.3	97.8	98.1
Chemicals and allied products	104.0	104.0	104.5	104.4	104.8	106.0	106.5	106.9	106.9	106.6	106.0	106.0	106.0
Petroleum and coal products	117.5	117.3	119.8	119.9	119.0	121.3	122.1	118.4	120.4	121.2	123.2	122.7	123.2
Rubber and misc. plastics products	139.6	141.3	142.1	141.0	140.1	144.5	147.3	146.6	147.0	146.2	145.4	145.1	146.8
Leather and leather products	70.0	70.3	69.6	68.0	67.8	69.1	71.3	70.4	70.1	67.1	69.1	69.5	66.7
SERVICE-PRODUCING	128.0	128.1	128.5	127.9	128.4	129.8	130.5	130.5	130.7	130.7	130.8	131.4	131.8
TRANSPORTATION AND PUBLIC UTILITIES	105.9	107.2	106.9	107.0	107.7	109.1	108.7	109.0	109.4	106.5	107.7	108.2	109.7
WHOLESALE AND RETAIL TRADE	124.3	124.2	124.7	123.7	124.2	125.9	126.4	126.8	126.8	127.4	127.2	127.4	127.9
WHOLESALE TRADE	122.2	122.4	123.0	123.1	123.9	125.3	126.0	125.2	126.1	125.7	126.1	127.2	127.6
RETAIL TRADE	125.2	124.9	125.4	123.9	124.4	126.1	126.6	127.3	127.0	128.0	127.7	127.5	128.0
FINANCE, INSURANCE, AND REAL ESTATE	133.2	133.6	133.9	134.3	135.1	135.4	137.5	136.2	137.9	139.0	139.2	139.7	140.4
SERVICES	141.8	141.6	142.1	141.7	141.8	143.3	144.1	143.8	143.9	144.1	144.1	145.1	144.9

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

p=preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED

C-9. Average hourly and weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, seasonally adjusted

Industry	1977			1978									
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept. ^P	Oct. ^P
Average hourly earnings													
TOTAL PRIVATE	\$5.36	\$5.39	\$5.41	\$5.46	\$5.49	\$5.54	\$5.61	\$5.62	\$5.66	\$5.71	\$5.73	\$5.77	\$5.82
MINING	7.16	7.18	6.75	6.84	6.92	6.94	7.63	7.66	7.71	7.85	7.88	7.88	7.94
CONSTRUCTION	8.19	8.20	8.24	8.30	8.35	8.47	8.47	8.59	8.65	8.66	8.72	8.75	8.78
MANUFACTURING	5.82	5.85	5.88	5.93	5.98	6.01	6.05	6.08	6.12	6.18	6.20	6.25	6.33
TRANSPORTATION AND PUBLIC UTILITIES	7.16	7.21	7.28	7.34	7.38	7.40	7.49	7.50	7.52	7.53	7.58	7.63	7.66
WHOLESALE AND RETAIL TRADE	4.36	4.39	4.42	4.51	4.50	4.55	4.60	4.60	4.63	4.67	4.70	4.73	4.76
FINANCE, INSURANCE, AND REAL ESTATE	4.64	4.66	4.68	4.72	4.71	4.75	4.84	4.84	4.89	4.95	4.92	4.98	5.05
SERVICES	4.75	4.76	4.78	4.86	4.87	4.90	4.95	4.94	4.96	5.01	5.02	5.05	5.07
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars	193.50	194.04	194.22	193.83	195.99	199.44	202.52	201.76	203.19	204.99	205.13	206.57	208.36
1967 dollars ²	104.93	104.77	104.42	103.38	103.86	104.86	105.59	104.21	104.04	104.43	103.92	103.91	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{2, 3}	95.57	95.39	95.06	92.41	92.70	93.33	93.76	92.59	92.33	92.55	92.09	91.98	-

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

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

³ See footnote 2, table C-5, 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		
	AUGUST 1978	SEPTEMBER 1978p	OCTOBER 1978p	Oct. 1977 to Oct. 1978	Aug. 1978 to Sept. 1978	Sept. 1978 to Oct. 1978
TOTAL	162,912	162,913	163,597	3.2	0.0	0.4
PRIVATE SECTOR	132,293	132,576	133,395	4.1	0.2	0.6
MINING	2,033	1,986	2,033	6.8	-2.3	2.4
CONSTRUCTION	8,288	8,233	8,300	13.0	-0.7	0.8
MANUFACTURING	42,222	42,304	42,564	3.3	0.2	0.6
DURABLE GOODS	25,618	25,727	26,031	5.3	0.4	1.2
NONDURABLE GOODS	16,604	16,577	16,532	0.4	-0.2	-0.3
TRANSPORTATION AND PUBLIC UTILITIES	10,049	10,115	10,221	4.9	0.7	1.1
WHOLESALE AND RETAIL TRADE	33,379	33,441	33,574	3.1	0.2	0.4
FINANCE, INSURANCE, AND REAL ESTATE	8,930	8,964	9,021	5.5	0.4	0.6
SERVICES	27,391	27,534	27,683	3.2	0.5	0.5
GOVERNMENT	30,618	30,337	30,202	-0.6	-0.9	-0.4

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										
			1976				1977				1978		
	1976	1977	I	II	III	IV	I	II	III	IV	I	II	IIIP
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	116.4	118.2	115.4	116.1	117.1	117.2	117.9	117.4	118.9	119.0	117.6	118.0	119.3
Output	126.5	133.2	125.0	126.2	127.1	127.6	130.5	132.5	134.2	135.5	135.3	138.7	140.0
Hours	108.7	112.7	108.3	108.7	108.5	108.9	110.7	112.9	112.9	113.9	115.0	117.6	117.4
Compensation per hour	197.0	213.0	190.9	194.7	199.3	203.6	207.5	210.4	215.3	218.8	225.1	229.6	235.0
Real compensation per hour	115.5	117.4	114.1	115.0	116.1	117.3	117.2	116.4	117.6	118.1	119.3	118.5	NA
Unit labor costs	169.3	180.2	165.4	167.7	170.1	173.8	176.0	179.3	181.1	183.9	191.4	194.6	197.0
Unit nonlabor payments	158.1	164.7	156.7	158.3	159.0	158.4	160.4	164.0	167.0	167.8	162.1	171.3	176.3
Implicit price deflator	165.4	174.9	162.4	164.5	166.3	168.5	170.6	174.0	176.3	178.4	181.3	186.6	189.9
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	114.4	115.8	113.0	114.4	115.1	114.9	115.6	115.2	116.2	116.4	115.5	115.9	117.0
Output	127.0	133.6	125.2	126.9	127.7	128.1	131.0	133.0	134.6	135.8	136.1	139.8	141.0
Hours	111.0	115.4	110.8	111.0	110.9	111.5	113.4	115.5	115.9	116.7	117.8	120.6	120.5
Compensation per hour	193.7	209.3	187.6	191.6	195.8	199.8	203.9	207.1	211.2	215.1	221.4	225.8	230.6
Real compensation per hour	113.6	115.3	112.1	113.1	114.1	115.1	115.1	114.5	115.3	116.1	117.3	116.6	NA
Unit labor costs	169.4	180.7	166.0	167.5	170.1	173.9	176.4	179.8	181.7	184.8	191.7	194.7	197.1
Unit nonlabor payments	156.0	162.7	153.7	155.5	157.4	157.2	157.8	161.7	166.1	165.1	159.2	167.1	173.1
Implicit price deflator	164.8	174.6	161.8	163.4	165.7	168.2	170.0	173.6	176.4	178.1	180.6	185.3	188.9
MANUFACTURING:													
Output per hour of all persons	123.2	126.1	121.8	123.3	124.1	123.9	123.7	125.6	127.6	127.5	125.8	128.4	131.4
Output	119.3	126.9	117.8	119.2	120.0	120.3	122.6	126.6	128.6	129.8	129.7	134.1	136.9
Hours	96.9	100.6	96.8	96.7	96.8	97.1	99.1	100.7	100.8	101.8	103.1	104.5	104.2
Compensation per hour	195.1	212.2	189.0	193.7	196.9	200.8	205.6	209.7	214.3	218.9	225.0	229.1	234.9
Real compensation per hour	114.4	116.9	113.0	114.3	114.7	115.7	116.1	115.9	117.1	118.2	119.2	118.3	NA
Unit labor costs	158.3	168.3	155.3	157.1	158.7	162.2	166.3	166.9	168.0	171.7	178.8	178.5	178.7
DURABLE GOODS													
Output per hour of all persons	118.2	120.4	116.6	118.5	119.4	118.4	117.8	120.4	121.8	121.5	119.4	122.6	125.5
Output	113.3	121.4	110.8	113.3	114.8	114.4	116.3	121.0	123.5	124.8	124.4	129.5	133.3
Hours	95.9	100.8	95.0	95.6	96.2	96.6	98.7	100.6	101.3	102.7	104.2	105.7	106.2
Compensation per hour	196.8	214.2	191.4	195.7	198.5	201.6	207.0	211.7	216.3	221.4	226.9	231.1	236.9
Real compensation per hour	115.4	118.0	114.4	115.5	115.6	116.1	116.9	117.0	118.1	119.5	120.2	119.3	NA
Unit labor costs	166.5	177.9	164.2	165.1	166.2	170.3	175.7	175.9	177.5	182.2	190.1	188.4	188.8
NONDURABLE GOODS													
Output per hour of all persons	131.3	135.4	130.1	131.0	131.6	132.7	133.1	134.2	137.0	137.3	136.4	137.7	141.2
Output	129.1	135.7	129.2	128.9	128.5	129.8	132.6	135.5	136.9	138.0	138.3	141.5	142.8
Hours	98.3	100.3	99.3	98.4	97.6	97.9	99.6	101.0	99.9	100.5	101.4	102.7	101.1
Compensation per hour	192.7	208.7	186.0	190.9	194.6	199.7	203.4	206.4	210.7	214.1	221.0	224.9	230.0
Real compensation per hour	113.0	115.0	111.2	112.7	113.3	115.1	114.9	114.1	115.1	115.6	117.1	116.1	NA
Unit labor costs	146.8	154.2	142.9	145.8	147.9	150.5	152.8	153.9	153.8	155.9	162.1	163.3	162.8
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	117.1	119.2	116.4	117.4	117.6	116.8	117.8	118.6	120.1	120.1	119.3	120.7	NA
Output	133.8	141.0	132.3	134.1	134.4	134.2	137.5	140.5	142.3	143.6	143.6	148.8	NA
Hours	114.3	118.3	113.6	114.2	114.3	114.9	116.7	118.5	118.5	119.6	120.4	123.3	NA
Compensation per hour	194.9	212.0	188.8	192.8	196.9	201.2	205.4	209.7	214.5	218.3	224.8	229.5	NA
Real compensation per hour	114.3	116.8	112.8	113.8	114.7	115.9	116.0	115.9	117.1	117.9	119.1	118.5	NA
Total unit costs	172.0	182.0	168.0	169.8	172.8	177.3	178.8	180.8	182.5	185.6	191.5	192.6	NA
Unit labor costs	166.5	177.9	162.2	164.3	167.4	172.2	174.3	176.8	178.5	181.9	188.5	190.2	NA
Unit nonlabor costs	188.8	194.5	186.1	186.9	189.4	193.0	192.6	193.1	195.0	197.1	201.1	200.1	NA
Unit profits	112.7	120.2	114.9	115.5	114.7	105.6	108.8	120.1	128.3	122.9	104.5	127.8	NA
Implicit price deflator	163.2	172.8	160.1	161.7	164.2	166.6	168.4	171.8	174.5	176.3	178.6	183.0	NA

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 1977	II 1977	III 1977	IV 1977	I 1978	II 1978	II 1976	III 1976	IV 1976	I 1977	II 1977	III 1977
	to II 1977	to III 1977	to IV 1977	to I 1978	to II 1978	to III 1978	to II 1977	to III 1977	to IV 1977	to I 1978	to II 1978	to III 1978
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	-1.7	5.1	0.4	-4.5	1.2	4.5	1.1	1.5	1.5	-0.2	0.5	0.3
Output	6.5	5.0	4.0	-0.6	10.5	3.8	5.0	5.6	6.2	3.7	4.6	4.3
Hours	8.3	-0.1	3.7	4.0	9.2	-0.6	3.9	4.0	4.6	3.9	4.1	4.0
Compensation per hour	5.8	9.5	6.7	12.1	8.1	9.8	8.1	8.0	7.5	8.5	9.1	9.1
Real compensation per hour	-2.7	4.3	1.9	4.0	-2.5	N.A.	1.2	1.3	0.7	1.8	1.9	N.A.
Unit labor costs	7.6	4.2	6.3	17.4	6.8	5.1	6.9	6.5	5.8	8.8	8.5	8.8
Unit nonlabor payments	9.5	7.4	2.0	-13.1	24.8	12.2	3.6	5.0	5.9	1.1	4.4	5.6
Implicit price deflator	8.2	5.2	4.9	6.7	12.1	7.3	5.8	6.0	5.9	6.3	7.2	7.7
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	-1.4	3.7	0.5	-3.1	1.7	3.7	0.7	0.9	1.3	-0.1	0.7	0.7
Output	6.2	5.0	3.5	0.7	11.6	3.3	4.8	5.4	6.0	3.8	5.2	4.7
Hours	7.7	1.3	3.0	3.9	9.8	-0.4	4.1	4.4	4.7	3.9	4.5	4.0
Compensation per hour	6.5	8.1	7.6	12.2	8.2	8.9	8.1	7.8	7.6	8.6	9.0	9.2
Real compensation per hour	-2.1	2.9	2.8	4.0	-2.4	N.A.	1.2	1.1	0.9	1.9	1.8	N.A.
Unit labor costs	8.0	4.2	7.1	15.7	6.4	5.0	7.3	6.8	6.3	8.7	8.3	8.5
Unit nonlabor payments	10.3	11.5	-2.4	-13.5	21.3	15.2	4.0	5.5	5.0	0.9	3.4	4.2
Implicit price deflator	8.7	6.5	4.0	5.8	10.8	8.1	6.2	6.4	5.9	6.2	6.7	7.1
MANUFACTURING:												
Output per hour of all persons	6.4	6.5	-0.3	-5.1	8.3	10.0	1.9	2.9	2.9	1.8	2.2	3.0
Output	13.7	6.6	4.0	-0.5	14.3	8.7	6.1	7.1	7.9	5.8	6.0	6.5
Hours	6.8	0.1	4.3	4.9	5.6	-1.2	4.2	4.1	4.8	4.0	3.7	3.4
Compensation per hour	8.2	9.2	8.8	11.6	7.4	10.5	8.3	8.9	9.0	9.4	9.2	9.6
Real compensation per hour	-0.6	3.9	4.0	3.5	-3.1	N.A.	1.4	2.1	2.2	2.7	2.0	N.A.
Unit labor costs	1.6	2.5	9.1	17.7	-0.8	0.5	6.2	5.8	5.9	7.6	6.9	6.4
DURABLE GOODS												
Output per hour of all persons	8.9	5.0	-1.1	-6.8	11.3	9.6	1.6	2.0	2.6	1.3	1.9	3.0
Output	17.1	8.3	4.5	-1.5	17.7	12.1	6.9	7.5	9.1	6.9	7.0	8.0
Hours	7.6	3.1	5.7	5.7	5.7	2.3	5.2	5.4	6.3	5.5	5.1	4.8
Compensation per hour	9.4	9.0	9.8	10.4	7.5	10.5	8.2	9.0	9.8	9.6	9.2	9.5
Real compensation per hour	0.5	3.8	4.9	2.4	-3.0	N.A.	1.3	2.2	2.9	2.9	1.9	N.A.
Unit labor costs	0.5	3.8	11.0	18.5	-3.4	0.8	6.5	6.8	7.0	8.2	7.1	6.4
NONDURABLE GOODS												
Output per hour of all persons	3.1	8.6	1.0	-2.6	3.9	10.6	2.4	4.1	3.5	2.5	2.6	3.1
Output	9.0	4.1	3.2	1.1	9.4	3.7	5.1	6.6	6.2	4.3	4.4	4.3
Hours	5.7	-4.2	2.2	3.7	5.3	-6.3	2.6	2.4	2.7	1.8	1.7	1.1
Compensation per hour	6.0	8.5	6.7	13.6	7.2	9.3	8.1	8.3	7.2	8.7	9.0	9.2
Real compensation per hour	-2.6	3.3	1.9	5.4	-3.3	N.A.	1.3	1.5	0.5	2.0	1.8	N.A.
Unit labor costs	2.8	-0.1	5.6	16.6	3.2	-1.2	5.6	4.0	3.6	6.0	6.1	5.9
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	2.7	5.3	-0.2	-2.6	4.7	N.A.	1.0	2.1	2.8	1.2	1.7	N.A.
Output	9.2	5.2	3.6	-0.0	15.2	N.A.	4.8	5.9	7.0	4.5	5.9	N.A.
Hours	6.3	-0.1	3.9	2.7	10.1	N.A.	3.7	3.7	4.1	3.2	4.1	N.A.
Compensation per hour	8.7	9.3	7.5	12.4	8.7	N.A.	8.8	8.9	8.5	9.5	9.4	N.A.
Real compensation per hour	-0.1	4.1	2.7	4.2	-2.0	N.A.	1.9	2.1	1.7	2.7	2.2	N.A.
Total unit costs	4.6	3.9	6.8	13.6	2.3	N.A.	6.5	5.6	4.7	7.1	6.6	N.A.
Unit labor costs	5.8	3.9	7.7	15.3	3.8	N.A.	7.6	6.6	5.6	8.1	7.6	N.A.
Unit nonlabor costs	1.0	3.9	4.3	8.5	-2.0	N.A.	3.3	3.0	2.1	4.4	3.6	N.A.
Unit profits	48.2	30.4	-15.8	-47.8	123.6	N.A.	3.9	11.9	16.4	-4.0	6.4	N.A.
Implicit price deflator	8.3	6.4	4.2	5.5	10.2	N.A.	6.2	6.3	5.8	6.1	6.5	N.A.

p=preliminary.
r=revised.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
ALABAMA	\$202.40	\$230.58	\$232.96	40.4	42.0	41.9	\$5.01	\$5.49	\$5.56
Birmingham	242.20	292.32	(*)	40.3	42.0	(*)	6.01	6.96	(*)
Mobile	253.80	280.81	(*)	42.3	42.1	(*)	6.00	6.67	(*)
ALASKA	440.79	445.54	(*)	42.1	54.4	(*)	10.47	8.19	(*)
ARIZONA	231.42	247.46	250.30	40.6	40.7	40.7	5.70	6.08	6.15
Phoenix	233.13	249.08	255.64	40.9	40.9	41.1	5.70	6.09	6.22
Tucson	220.92	232.46	232.66	39.1	39.4	39.3	5.65	5.90	5.92
ARKANSAS	174.47	189.45	191.35	40.2	39.8	39.7	4.34	4.76	4.82
Fayetteville-Springdale	159.20	164.59	171.78	39.8	38.1	39.4	4.00	4.32	4.36
Fort Smith	178.20	192.76	189.53	39.6	39.1	38.6	4.50	4.93	4.91
Little Rock-North Little Rock	202.91	211.75	215.39	40.5	38.5	38.6	5.01	5.50	5.58
Pine Bluff	216.77	257.23	270.76	40.9	42.8	43.6	5.30	6.01	6.21
CALIFORNIA	248.27	259.05	(*)	40.5	40.1	(*)	6.13	6.46	(*)
Anaheim-Santa Ana-Garden Grove	224.62	243.58	(*)	40.4	40.8	(*)	5.56	5.97	(*)
Bakersfield	244.53	270.18	(*)	39.0	39.5	(*)	6.27	6.84	(*)
Fresno	220.80	236.22	(*)	40.0	39.7	(*)	5.52	5.95	(*)
Los Angeles-Long Beach	229.54	238.00	(*)	40.2	40.0	(*)	5.71	5.95	(*)
Modesto	260.57	262.51	(*)	42.3	40.2	(*)	6.16	6.53	(*)
Oxnard-Simi Valley-Ventura	206.98	223.20	(*)	39.5	40.0	(*)	5.24	5.58	(*)
Riverside-San Bernardino-Ontario	249.89	272.70	(*)	40.5	40.4	(*)	6.17	6.75	(*)
Sacramento	275.22	281.30	(*)	41.7	39.9	(*)	6.60	7.05	(*)
Salinas-Seaside-Monterey	234.30	258.86	(*)	38.6	39.4	(*)	6.07	6.57	(*)
San Diego	234.60	245.63	(*)	39.1	39.3	(*)	6.00	6.25	(*)
San Francisco-Oakland	296.34	312.00	(*)	40.1	40.0	(*)	7.39	7.80	(*)
San Jose	263.04	282.76	(*)	41.1	41.4	(*)	6.40	6.83	(*)
Santa Barbara-Santa Maria-Lompoc	213.56	228.73	(*)	38.9	38.9	(*)	5.49	5.88	(*)
Santa Rosa	217.67	229.48	(*)	37.4	36.6	(*)	5.82	6.27	(*)
Stockton	277.13	287.34	(*)	41.8	40.7	(*)	6.63	7.06	(*)
Vallejo-Fairfield-Napa	250.90	277.80	(*)	38.6	39.8	(*)	6.50	6.98	(*)
COLORADO	236.61	251.83	(*)	39.9	40.1	(*)	5.93	6.28	(*)
Denver-Boulder ¹	233.44	250.22	(*)	39.3	40.1	(*)	5.94	6.24	(*)
CONNECTICUT	234.77	247.70	(*)	41.7	41.7	(*)	5.63	5.94	(*)
Bridgeport	238.42	263.26	269.89	42.5	43.3	44.1	5.61	6.08	6.12
Hartford	251.93	268.39	280.37	42.2	42.2	43.2	5.97	6.36	6.49
New Britain	247.68	259.86	267.53	43.3	42.6	43.5	5.72	6.10	6.15
New Haven-West Haven	232.72	254.79	262.26	40.9	41.7	42.3	5.69	6.11	6.20
Stamford	239.36	253.76	259.14	41.7	41.6	42.0	5.74	6.10	6.17
Waterbury	201.60	219.76	226.94	42.0	42.1	42.9	4.80	5.22	5.29
DELAWARE	247.83	265.15	256.10	41.1	41.3	39.4	6.03	6.42	6.50
Wilmington	286.90	301.32	289.98	41.4	40.5	39.4	6.93	7.44	7.36
DISTRICT OF COLUMBIA:									
Washington SMSA	213.72	214.95	214.79	39.0	38.8	38.7	5.48	5.54	5.55
FLORIDA	190.82	205.63	(*)	40.6	40.8	(*)	4.70	5.04	(*)
Fort Lauderdale-Hollywood	190.76	193.36	(*)	41.2	40.2	(*)	4.63	4.81	(*)
Jacksonville	233.94	248.29	(*)	42.0	41.8	(*)	5.57	5.94	(*)
Miami	159.47	172.57	(*)	38.8	39.4	(*)	4.11	4.38	(*)
Orlando	213.09	230.11	(*)	41.7	42.3	(*)	5.11	5.44	(*)
Pensacola	242.08	262.06	(*)	41.1	42.2	(*)	5.89	6.21	(*)
Tampa-St. Petersburg	201.87	216.74	(*)	40.7	41.6	(*)	4.96	5.21	(*)
West Palm Beach-Boca Raton	227.26	237.42	(*)	40.8	41.8	(*)	5.57	5.68	(*)
GEORGIA	186.50	199.08	204.93	40.9	40.3	40.5	4.56	4.94	5.06
Atlanta	226.44	214.40	229.52	40.8	38.7	39.1	5.55	5.54	5.87
Savannah	251.85	274.77	283.16	43.8	43.0	43.9	5.75	6.39	6.45
HAWAII	214.85	217.32	232.32	37.3	38.6	38.4	5.76	5.63	6.05
Honolulu	212.86	207.18	224.03	36.7	37.6	37.4	5.80	5.51	5.99
IDAHO	242.26	277.78	264.80	41.2	40.2	40.0	5.88	6.91	6.62
Boise City	205.30	230.89	(*)	37.6	37.3	(*)	5.46	6.19	(*)

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		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
ILLINOIS	\$260.48	\$271.18	\$277.36	40.8	39.9	40.2	\$6.39	\$6.80	\$6.89
Bloomington—Normal	193.45	248.97	254.49	36.4	41.0	41.3	5.31	6.07	6.17
Champaign—Urbana—Rantoul	235.07	250.20	258.13	38.6	38.5	40.0	6.10	6.51	6.45
Chicago SMSA	263.46	267.48	273.05	41.5	40.6	40.8	6.35	6.59	6.69
Davenport—Rock Island—Moline	279.53	276.51	287.52	41.1	38.6	38.9	6.81	7.17	7.39
Decatur	284.74	299.82	311.49	41.9	41.1	41.7	6.80	7.30	7.46
Peoria	287.90	329.86	335.19	38.1	39.4	39.4	7.55	8.38	8.50
Rockford	257.23	279.17	286.97	43.1	41.8	42.8	5.97	6.67	6.70
Springfield	304.47	309.36	313.48	43.5	41.8	42.2	6.99	7.39	7.43
INDIANA	281.73	297.05	299.11	41.8	41.2	41.2	6.74	7.21	7.26
Gary—Hammond—East Chicago	364.91	402.17	(*)	41.8	42.2	(*)	8.73	9.53	(*)
Indianapolis	286.62	297.49	(*)	42.4	41.9	(*)	6.76	7.10	(*)
IOWA	262.51	273.34	285.20	40.2	39.5	40.0	6.53	6.92	7.13
Cedar Rapids	257.36	297.65	300.17	39.9	39.9	40.4	6.45	7.46	7.43
Des Moines	275.48	279.70	288.34	38.8	37.9	38.6	7.10	7.38	7.47
Dubuque	317.17	346.28	351.04	39.4	40.5	39.8	8.05	8.55	8.82
Sioux City	216.78	245.99	275.62	39.2	38.8	42.6	5.53	6.34	6.47
Waterloo—Cedar Falls	341.43	395.89	366.30	42.1	45.4	40.7	8.11	8.72	9.00
KANSAS	226.04	242.95	254.81	41.4	40.9	41.5	5.46	5.94	6.14
Topeka	249.60	261.36	282.41	41.6	39.6	41.9	6.00	6.60	6.74
Wichita	244.02	267.12	272.21	42.0	42.0	42.4	5.81	6.36	6.42
KENTUCKY	235.93	245.31	(*)	40.4	39.0	(*)	5.84	6.29	(*)
Louisville	272.49	285.82	293.54	41.1	40.6	40.6	6.63	7.04	7.23
LOUISIANA	245.74	268.13	274.63	41.3	41.7	41.8	5.95	6.43	6.57
Baton Rouge	310.32	332.67	334.15	43.1	43.6	44.2	7.20	7.63	7.56
New Orleans	227.94	251.22	255.71	39.3	39.5	39.1	5.80	6.36	6.54
Shreveport	240.81	244.96	246.56	42.1	41.1	41.3	5.72	5.96	5.97
MAINE	183.94	197.88	203.18	39.9	40.8	40.8	4.61	4.85	4.98
Lewiston—Auburn	147.00	162.47	163.11	37.5	38.5	38.2	3.92	4.22	4.27
Portland	184.08	197.90	207.67	39.0	39.9	40.8	4.72	4.96	5.09
MARYLAND	249.64	265.02	(*)	40.2	40.4	(*)	6.21	6.56	(*)
Baltimore	265.12	279.35	(*)	40.6	40.9	(*)	6.53	6.83	(*)
MASSACHUSETTS	211.41	222.15	(*)	40.5	40.1	(*)	5.22	5.54	(*)
Boston	234.03	242.59	(*)	40.7	39.9	(*)	5.79	6.08	(*)
Brockton	163.92	177.17	(*)	38.3	38.6	(*)	4.28	4.59	(*)
Fall River	148.63	159.87	(*)	35.9	36.5	(*)	4.14	4.38	(*)
Lawrence—Haverhill	211.12	218.99	(*)	40.6	39.6	(*)	5.20	5.53	(*)
Lowell	182.56	193.00	(*)	39.6	38.6	(*)	4.61	5.00	(*)
New Bedford	178.02	189.70	(*)	38.7	38.4	(*)	4.60	4.94	(*)
Springfield—Chicopee—Holyoke	217.65	224.68	(*)	41.3	41.0	(*)	5.27	5.48	(*)
Worcester	218.82	230.85	(*)	40.9	40.5	(*)	5.35	5.70	(*)
MICHIGAN	331.38	340.26	356.18	43.5	42.5	43.8	7.62	8.01	8.13
Ann Arbor	365.94	385.57	399.35	44.6	44.0	44.8	8.21	8.76	8.91
Battle Creek	309.06	338.99	336.69	40.4	41.0	41.5	7.65	8.27	8.11
Bay City	368.32	315.97	320.72	49.3	42.0	42.1	7.47	7.52	7.62
Detroit	355.57	381.10	390.08	43.8	43.8	43.8	8.12	8.70	8.91
Flint	408.96	401.95	425.27	48.0	44.2	46.3	8.52	9.09	9.19
Grand Rapids	264.84	269.78	277.13	41.8	41.2	41.8	6.34	6.55	6.63
Jackson	269.32	314.66	314.00	40.8	43.3	43.4	6.60	7.27	7.24
Kalamazoo—Portage	283.90	297.38	311.11	41.5	40.9	41.9	6.84	7.27	7.43
Lansing—East Lansing	335.04	341.61	360.13	42.8	41.7	43.3	7.83	8.19	8.32
Muskegon—Norton Shores—Muskegon Heights	273.52	301.84	294.46	41.6	41.9	41.2	6.58	7.20	7.15
Saginaw	385.79	398.55	396.97	45.1	44.0	43.7	8.55	9.06	9.08
MINNESOTA	242.19	257.68	262.44	39.9	40.2	40.5	6.07	6.41	6.48
Duluth—Superior	223.26	239.94	244.05	39.1	38.7	39.3	5.71	6.20	6.21
Minneapolis—St. Paul	263.90	279.48	282.90	40.6	40.8	41.0	6.50	6.85	6.90
MISSISSIPPI	170.08	184.63	185.72	40.4	40.4	40.2	4.21	4.57	4.62
Jackson	189.52	204.85	210.34	41.2	41.3	41.9	4.60	4.96	5.02

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		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
MISSOURI	\$239.72	\$235.07	\$253.03	40.7	38.6	40.1	\$5.89	\$6.09	\$6.31
Kansas City	268.66	274.72	292.03	40.4	40.4	40.9	6.65	6.80	7.14
St. Joseph	209.82	225.15	230.28	39.0	39.5	40.4	5.38	5.70	5.70
St. Louis	277.31	283.91	295.61	41.7	40.1	41.0	6.65	7.08	7.21
Springfield	192.27	222.96	217.40	39.4	40.1	39.6	4.88	5.56	5.49
MONTANA	289.08	338.35	339.07	42.7	42.4	41.3	6.77	7.98	8.21
NEBRASKA	225.64	239.37	251.76	41.1	41.2	42.1	5.49	5.81	5.98
Lincoln	212.06	237.55	241.96	37.8	38.5	38.9	5.61	6.17	6.22
Omaha	244.91	259.43	265.27	41.3	40.6	41.0	5.93	6.39	6.47
NEVADA	248.52	250.88	252.40	39.7	37.5	38.3	6.26	6.69	6.59
Las Vegas	306.59	328.02	(*)	41.6	40.1	(*)	7.37	8.18	(*)
NEW HAMPSHIRE	190.07	199.89	(*)	40.7	40.3	(*)	4.67	4.96	(*)
Manchester	167.93	175.11	(*)	39.7	39.0	(*)	4.23	4.49	(*)
Nashua	212.25	216.54	(*)	41.7	40.4	(*)	5.09	5.36	(*)
NEW JERSEY	242.43	255.85	261.88	41.3	41.4	41.7	5.87	6.18	6.28
Atlantic City	206.03	172.59	178.94	38.8	38.1	38.9	5.31	4.53	4.60
Camden ²	234.00	247.23	251.53	40.0	40.2	40.7	5.85	6.15	6.18
Hackensack ³	233.14	246.96	252.88	42.7	43.1	43.6	5.46	5.73	5.80
Jersey City ³	231.02	246.18	252.50	39.9	40.0	40.4	5.79	6.17	6.25
New Brunswick—Perth Amboy—Sayreville ³	258.96	274.80	290.49	41.7	41.2	42.1	6.21	6.67	6.90
Newark ³	248.71	258.49	260.83	41.8	42.1	41.8	5.95	6.14	6.24
Paterson—Clifton—Passaic ³	231.65	241.16	242.76	41.0	40.6	40.8	5.65	5.94	5.95
Trenton	268.94	267.08	271.41	43.1	40.9	41.5	6.24	6.53	6.54
NEW MEXICO	183.11	186.34	189.54	40.6	38.5	39.0	4.51	4.84	4.86
Albuquerque	184.05	187.50	195.42	40.9	38.5	39.4	4.50	4.87	4.96
NEW YORK	227.88	237.98	(*)	39.7	39.4	(*)	5.74	6.04	(*)
Albany—Schenectady—Troy	250.71	265.60	(*)	40.7	40.0	(*)	6.16	6.64	(*)
Binghamton	211.24	217.31	(*)	41.5	39.8	(*)	5.09	5.46	(*)
Buffalo	313.76	323.59	(*)	42.4	41.7	(*)	7.40	7.76	(*)
Elmira	224.00	239.79	(*)	40.0	39.7	(*)	5.60	6.04	(*)
Monroe County ⁴	301.75	304.47	(*)	42.5	41.2	(*)	7.10	7.39	(*)
Nassau—Suffolk ⁵	218.35	223.83	(*)	39.7	39.2	(*)	5.50	5.71	(*)
New York—Northeastern New Jersey	217.88	227.73	(*)	39.4	39.4	(*)	5.53	5.78	(*)
New York and Nassau—Suffolk ³	197.02	205.13	(*)	37.6	37.5	(*)	5.24	5.47	(*)
New York SMSA ⁵	195.30	200.80	(*)	37.2	37.2	(*)	5.25	5.40	(*)
New York City ⁶	191.36	197.25	(*)	36.8	36.8	(*)	5.20	5.36	(*)
Poughkeepsie	241.96	258.23	(*)	42.9	43.4	(*)	5.64	5.95	(*)
Rochester	281.23	286.59	(*)	42.1	41.9	(*)	6.68	6.99	(*)
Rockland County ⁶	224.17	244.76	(*)	41.9	42.2	(*)	5.35	5.80	(*)
Syracuse	255.85	274.03	(*)	41.4	41.9	(*)	6.18	6.54	(*)
Utica—Rome	220.73	230.68	(*)	40.8	40.4	(*)	5.41	5.71	(*)
Westchester County ⁶	227.81	230.29	(*)	40.9	39.5	(*)	5.57	5.83	(*)
NORTH CAROLINA	167.20	180.29	182.40	40.0	39.8	40.0	4.18	4.53	4.56
Asheville	166.04	176.67	178.80	40.3	39.7	40.0	4.12	4.45	4.47
Charlotte—Gastonia	170.55	185.19	190.49	40.9	40.7	41.5	4.17	4.55	4.59
Greensboro—Winston-Salem—High Point	178.30	196.31	195.82	39.1	39.9	39.4	4.56	4.92	4.97
Raleigh—Durham	187.07	201.50	204.72	39.3	39.9	40.3	4.76	5.05	5.08
NORTH DAKOTA	212.07	233.19	236.23	39.2	41.2	40.8	5.41	5.66	5.79
Fargo—Moorhead	238.10	257.29	252.57	40.7	41.1	39.9	5.85	6.26	6.33
OHIO	288.65	305.87	313.12	42.2	41.9	42.2	6.84	7.30	7.42
Akron	290.44	304.68	307.94	42.4	42.2	42.3	6.85	7.22	7.28
Canton	280.13	310.34	311.71	39.4	40.2	40.8	7.11	7.72	7.64
Cincinnati	265.44	287.28	288.12	42.0	42.0	42.0	6.32	6.84	6.86
Cleveland	298.58	314.71	330.91	42.9	42.3	43.2	6.96	7.44	7.66
Columbus	246.62	268.21	273.10	40.1	40.7	40.7	6.15	6.59	6.71
Dayton	305.64	310.06	316.40	43.6	42.3	42.3	7.01	7.33	7.48
Toledo	304.74	317.52	317.86	42.8	42.0	42.1	7.12	7.56	7.55
Youngstown—Warren	327.20	358.94	369.64	40.9	41.4	42.1	8.00	8.67	8.78

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		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
OKLAHOMA	\$223.72	\$239.72	\$239.13	40.9	40.7	40.6	\$5.47	\$5.89	\$5.89
Oklahoma City	220.30	229.89	237.20	41.1	39.5	40.0	5.36	5.82	5.93
Tulsa	239.50	253.26	255.19	40.8	40.2	40.7	5.87	6.30	6.27
OREGON	261.03	276.82	(*)	38.5	38.5	(*)	6.78	7.19	(*)
Eugene—Springfield	295.30	308.50	(*)	40.9	39.1	(*)	7.22	7.89	(*)
Jackson County	262.82	291.07	(*)	38.2	38.4	(*)	6.88	7.58	(*)
Portland	250.70	264.86	(*)	38.1	38.0	(*)	6.58	6.97	(*)
PENNSYLVANIA	239.00	257.44	263.25	39.9	40.1	40.5	5.99	6.42	6.50
Allentown—Bethlehem—Easton	233.70	252.29	259.29	38.5	38.4	38.7	6.07	6.57	6.70
Altoona	200.34	208.45	218.68	38.9	37.9	38.5	5.15	5.50	5.68
Delaware Valley ⁷	248.80	265.72	270.28	40.0	40.2	40.4	6.22	6.61	6.69
Erie	251.22	262.06	268.36	41.8	41.4	41.8	6.01	6.33	6.42
Harrisburg	213.20	228.05	235.94	40.0	39.8	40.4	5.33	5.73	5.84
Johnstown	243.18	264.03	267.72	38.6	39.0	38.8	6.30	6.77	6.90
Lancaster	208.55	225.20	231.18	39.8	40.0	40.7	5.24	5.63	5.68
Northeast Pennsylvania	172.65	187.78	188.12	36.5	38.4	37.7	4.73	4.89	4.99
Philadelphia SMSA	(*)	262.91	267.71	(*)	40.2	40.5	(*)	6.54	6.61
Pittsburgh	303.68	315.52	329.43	41.6	40.4	41.7	7.30	7.81	7.90
Reading	221.65	227.37	230.29	39.3	38.8	38.9	5.64	5.86	5.92
Scranton ⁸	182.30	198.10	206.34	37.9	39.7	40.3	4.81	4.99	5.12
Wilkes-Barre—Hazleton ⁹	164.50	179.64	182.01	35.3	36.0	35.9	4.66	4.99	5.07
Williamsport	207.50	229.77	230.26	39.3	40.1	39.7	5.28	5.73	5.80
York	218.48	239.87	245.86	41.3	41.5	42.1	5.29	5.78	5.84
RHODE ISLAND	174.94	181.50	187.15	39.4	38.7	39.4	4.44	4.69	4.75
Providence—Warwick—Pawtucket	175.78	181.58	190.00	39.5	38.8	40.0	4.45	4.68	4.75
SOUTH CAROLINA	179.14	193.73	196.39	40.9	40.7	41.0	4.38	4.76	4.79
Charleston—North Charleston	200.98	221.40	226.43	41.1	41.0	41.7	4.89	5.40	5.43
Columbia	179.82	188.18	190.07	40.5	39.7	40.1	4.44	4.74	4.74
Greenville—Spartanburg	176.58	191.76	191.17	40.5	40.8	41.2	4.36	4.70	4.64
SOUTH DAKOTA	192.46	215.66	228.72	39.6	41.0	42.2	4.86	5.26	5.42
Rapid City	154.44	178.82	186.15	39.6	35.2	34.6	3.90	5.08	5.38
Sioux Falls	237.31	271.58	299.73	41.2	42.5	45.9	5.76	6.39	6.53
TENNESSEE	195.16	208.17	210.08	41.0	40.5	40.4	4.76	5.14	5.20
Chattanooga	202.95	216.22	218.89	41.0	41.5	41.3	4.95	5.21	5.30
Knoxville	232.52	251.68	251.32	41.3	41.6	41.2	5.63	6.05	6.10
Memphis	226.05	238.54	236.41	41.1	40.5	39.6	5.50	5.89	5.97
Nashville—Davidson	208.58	230.31	230.52	40.5	41.2	40.8	5.15	5.59	5.65
TEXAS	229.08	243.90	247.20	41.5	41.2	41.2	5.52	5.92	6.00
Amarillo	237.19	228.42	235.25	44.5	40.5	41.2	5.33	5.64	5.71
Austin	183.46	187.05	192.85	41.6	41.2	42.2	4.41	4.54	4.57
Beaumont	318.65	347.65	337.11	40.8	40.9	39.8	7.81	8.50	8.47
Corpus Christi	248.86	269.53	280.14	40.4	40.9	42.9	6.16	6.59	6.53
Dallas—Fort Worth	214.66	223.04	228.48	41.6	40.7	40.8	5.16	5.48	5.60
El Paso	161.56	171.57	177.45	40.9	39.9	39.0	3.95	4.30	4.55
Galveston—Texas City	342.72	387.90	404.02	42.0	43.1	44.3	8.16	9.00	9.12
Houston	282.01	318.53	314.60	42.6	44.8	44.0	6.62	7.11	7.15
Lubbock	170.14	177.95	177.01	41.7	39.9	39.6	4.08	4.46	4.47
San Antonio	175.56	178.20	178.49	41.7	39.6	40.2	4.21	4.50	4.44
Waco	193.20	204.62	208.68	42.0	40.2	40.6	4.60	5.09	5.14
Wichita Falls	202.75	216.80	210.81	39.6	40.6	39.7	5.12	5.34	5.31
UTAH	209.93	224.43	226.94	39.8	39.1	39.4	5.27	5.74	5.76
Salt Lake City—Ogden	197.66	214.50	216.38	40.1	39.0	39.2	4.93	5.50	5.52
VERMONT	196.18	210.64	216.94	41.3	40.9	41.4	4.75	5.15	5.24
Burlington	231.32	240.55	254.32	43.4	42.5	43.4	5.33	5.66	5.86
Springfield	222.49	241.34	248.04	41.9	41.9	42.4	5.31	5.76	5.85
VIRGINIA	192.63	203.78	208.24	40.3	39.8	40.2	4.78	5.12	5.18
Bristol	169.34	173.36	180.12	38.4	38.1	38.0	4.41	4.55	4.74
Lynchburg	198.72	212.53	215.83	41.4	40.1	40.8	4.80	5.30	5.29
Norfolk—Virginia Beach—Portsmouth	219.03	225.18	231.08	41.8	40.5	40.9	5.24	5.56	5.65
Northern Virginia ¹⁰	225.63	242.84	245.32	41.4	41.3	41.3	5.45	5.88	5.94
Petersburg—Colonial Heights—Hopewell	227.74	244.86	244.20	38.6	38.2	38.7	5.90	6.41	6.31

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
VIRGINIA—Continued									
Richmond	\$226.12	\$250.22	\$253.75	39.6	40.1	40.6	\$5.71	\$6.24	\$6.25
Roanoke	172.48	187.60	189.77	40.3	40.0	39.7	4.28	4.69	4.78
WASHINGTON	274.71	299.86	(*)	39.3	39.3	(*)	6.99	7.63	(*)
Seattle—Everett	278.39	308.09	(*)	39.1	39.6	(*)	7.12	7.78	(*)
Spokane	242.99	261.36	(*)	39.9	39.6	(*)	6.09	6.60	(*)
Tacoma	277.85	291.85	(*)	39.3	38.2	(*)	7.07	7.64	(*)
WEST VIRGINIA	245.60	270.18	(*)	38.8	39.5	(*)	6.33	6.84	(*)
Charleston	278.21	313.12	(*)	41.4	42.2	(*)	6.72	7.42	(*)
Huntington—Ashland	252.96	288.22	(*)	37.2	39.7	(*)	6.80	7.26	(*)
Parkersburg—Marietta	256.07	278.92	(*)	40.2	40.6	(*)	6.37	6.87	(*)
Wheeling	261.63	288.56	(*)	40.5	41.4	(*)	6.46	6.97	(*)
WISCONSIN	253.59	273.35	279.09	40.8	41.1	41.2	6.22	6.64	6.77
Appleton—Oshkosh	250.67	267.62	272.48	42.2	41.6	41.9	5.94	6.43	6.51
Eau Claire	251.94	269.96	273.36	40.9	40.5	41.3	6.16	6.66	6.61
Green Bay	251.89	280.75	285.43	41.8	42.7	42.0	6.02	6.57	6.79
Kenosha	284.05	336.08	302.32	39.4	42.1	39.3	7.22	7.98	7.69
La Crosse	211.67	214.37	220.68	40.1	39.1	39.9	5.28	5.49	5.54
Madison	275.72	275.76	285.07	40.7	40.5	40.5	6.77	6.81	7.04
Milwaukee	283.33	300.84	308.59	41.1	40.8	41.3	6.90	7.38	7.48
Racine	271.08	292.17	297.32	40.2	40.9	41.1	6.74	7.14	7.23
WYOMING	227.21	247.67	241.17	39.7	39.5	38.1	5.72	6.27	6.33
Casper	265.86	285.91	288.64	39.8	40.1	40.2	6.68	7.13	7.18
Cheyenne	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

¹ Based on the 1967 Standard Industrial Classification Manual.
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: Lack-

awanna 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, 1969 to date

[Per 100 employees]

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

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	
		Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p
	MANUFACTURING	5.3	4.8	4.1	3.8	0.9	0.7	5.2	4.8	3.4	3.0	0.7	0.8
24, 25, 32-39	DURABLE GOODS	4.8	4.5	3.7	3.5	.8	.6	4.7	4.2	2.9	2.6	.7	.6
20-23, 26-31	NONDURABLE GOODS	6.2	5.4	4.8	4.3	1.1	.8	6.0	5.7	4.2	3.7	.8	1.1
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	7.3	6.3	6.6	5.6	.5	.4	8.0	7.4	5.9	5.4	.7	.7
242	Sawmills and planing mills	5.8	5.3	5.3	4.6	.4	—	6.2	—	4.5	—	.4	—
2421	Sawmills and planing mills, general	5.0	—	4.5	—	.3	—	5.6	—	4.0	—	.3	—
243	Millwork, plywood, and structural members	7.6	—	6.9	—	.6	—	8.0	—	5.9	—	.6	—
2431	Millwork	6.6	—	6.0	—	.5	—	7.5	—	5.8	—	.5	—
244	Wooden containers	11.9	—	10.8	—	.8	—	12.9	—	11.3	—	.7	—
245	Wood buildings and mobile homes	11.9	—	10.9	—	.9	—	13.9	—	10.6	—	1.1	—
2451	Mobile homes	13.6	—	12.8	—	.7	—	15.0	—	10.9	—	1.1	—
249	Miscellaneous wood products	6.6	—	5.8	—	.6	—	7.7	—	5.5	—	.8	—
25	FURNITURE AND FIXTURES	8.1	7.5	7.4	6.7	.5	.6	8.2	7.3	6.0	5.2	.6	.7
251	Household furniture	8.6	—	7.9	—	.4	—	8.8	—	6.6	—	.6	—
2511	Wood household furniture	9.2	—	8.7	—	.3	—	9.6	—	7.6	—	.3	—
2512	Upholstered household furniture	7.6	—	6.8	—	.6	—	7.2	—	5.8	—	.2	—
2515	Mattresses and bedsprings	9.3	—	8.7	—	.4	—	7.7	—	5.4	—	.5	—
252	Office furniture	6.3	—	5.3	—	.8	—	5.5	—	4.0	—	.3	—
254	Partitions and fixtures	8.2	—	7.8	—	.2	—	8.6	—	5.7	—	1.0	—
32	STONE, CLAY, AND GLASS PRODUCTS	4.7	4.3	3.9	3.7	.6	.4	5.4	4.8	3.5	3.0	.6	.8
322	Glass and glassware, pressed or blown	3.7	—	2.4	—	.8	—	4.0	—	2.3	—	.4	—
3221	Glass containers	3.3	—	2.7	—	.3	—	4.6	—	3.1	—	.4	—
3229	Pressed and blown glass, nec	4.2	—	2.0	—	1.5	—	3.1	—	1.3	—	.4	—
323	Products of purchased glass	5.2	—	4.6	—	.4	—	5.8	—	4.3	—	.3	—
324	Cement, hydraulic	1.5	—	1.4	—	.1	—	3.8	—	2.7	—	.3	—
325	Structural clay products	7.0	—	6.5	—	.3	—	8.2	—	6.4	—	.3	—
326	Pottery and related products	4.2	—	3.1	—	.8	—	5.2	—	3.1	—	.6	—
327	Concrete, gypsum, and plaster products	5.7	—	4.9	—	.6	—	6.3	—	4.2	—	.7	—
329	Misc. nonmetallic mineral products	4.4	—	3.7	—	.4	—	4.9	—	3.0	—	.5	—
33	PRIMARY METAL INDUSTRIES	3.3	2.8	2.4	2.1	.6	.5	3.6	3.2	2.0	1.6	.5	.6
331	Blast furnace and basic steel products	2.3	—	1.3	—	.6	—	3.1	—	1.5	—	.6	—
3312	Blast furnaces and steel mills	2.1	—	1.2	—	.6	—	3.1	—	1.4	—	.6	—
332	Iron and steel foundries	5.0	—	4.1	—	.7	—	4.4	—	2.8	—	.4	—
3321	Gray iron foundries	4.3	—	3.7	—	.4	—	4.0	—	2.8	—	.3	—
3325	Steel foundries, nec	6.8	—	4.8	—	1.7	—	5.2	—	2.7	—	.9	—
333	Primary nonferrous metals	2.4	—	1.6	—	.7	—	2.4	—	1.4	—	.2	—
335	Nonferrous rolling and drawing	2.7	—	2.0	—	.3	—	2.7	—	1.5	—	.4	—
3351	Copper rolling and drawing	4.1	—	3.6	—	.1	—	3.5	—	2.2	—	.1	—
3353	Aluminum sheet, plate, and foil	1.2	—	.9	—	.1	—	1.9	—	.9	—	.6	—
3357	Nonferrous wire drawing and insulating	3.0	—	1.9	—	.6	—	2.5	—	1.1	—	.5	—
336	Nonferrous foundries	6.7	—	4.9	—	1.4	—	5.5	—	3.5	—	.6	—
3361	Aluminum foundries	5.6	—	4.1	—	1.2	—	5.1	—	3.3	—	.6	—
34	FABRICATED METAL PRODUCTS	5.3	4.8	4.4	4.0	.6	.5	5.4	4.6	3.5	2.9	.7	.6
341	Metal cans and shipping containers	3.3	—	1.9	—	1.0	—	5.5	—	2.6	—	1.6	—
3411	Metal cans	2.8	—	1.2	—	1.0	—	5.2	—	2.1	—	1.9	—
342	Cutlery, hand tools, and hardware	5.5	—	4.3	—	1.6	—	5.2	—	3.4	—	.5	—
3423, 5	Hand and edge tools, and hand saws and blades	5.1	—	3.8	—	1.2	—	5.5	—	3.3	—	.7	—
3429	Hardware, nec	5.9	—	4.7	—	.3	—	5.3	—	3.6	—	.5	—
343	Plumbing and heating, except electric	5.3	—	4.6	—	.6	—	5.9	—	3.9	—	.8	—
344	Fabricated structural metal products	6.0	—	5.3	—	.6	—	6.4	—	4.4	—	.7	—
3441	Fabricated structural metal	7.0	—	6.0	—	.9	—	6.7	—	4.3	—	.9	—
3442	Metal doors, sash, and trim	8.7	—	7.7	—	.9	—	9.3	—	7.1	—	.4	—
3443	Fabricated plate work (boiler shops)	3.2	—	2.7	—	.3	—	3.5	—	2.3	—	.3	—
3444	Sheet metal work	6.3	—	5.8	—	.4	—	6.8	—	4.7	—	1.2	—
345	Screw machine products, bolts, etc.	4.7	—	4.3	—	.3	—	4.1	—	3.0	—	.1	—
3451	Screw machine products	5.5	—	5.1	—	.3	—	4.7	—	3.8	—	.1	—
3452	Bolts, nuts, rivets, and washers	4.0	—	3.6	—	.3	—	3.4	—	2.3	—	.2	—
346	Metal forgings and stampings	4.9	—	3.4	—	.4	—	4.3	—	2.4	—	1.0	—
3462	Iron and steel forgings	2.9	—	2.7	—	.2	—	2.9	—	1.7	—	.3	—
3465	Automotive stampings	5.0	—	2.1	—	.3	—	3.8	—	1.2	—	1.9	—
3469	Metal stampings, nec	5.9	—	5.1	—	.6	—	5.4	—	3.7	—	.5	—
347	Metal services, nec	7.9	—	6.8	—	.9	—	7.9	—	5.4	—	.5	—
348	Ordnance and accessories, nec	3.0	—	2.0	—	.8	—	2.6	—	1.3	—	.6	—
349	Misc. fabricated metal products	4.7	—	4.0	—	.5	—	4.9	—	3.4	—	.5	—
3494	Valves and pipe fittings	2.8	—	2.4	—	.2	—	3.6	—	2.3	—	.6	—
3496	Misc. fabricated wire products	7.9	—	7.3	—	.4	—	6.6	—	5.1	—	.3	—

See footnotes at end of table.

ESTABLISHMENT DATA LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Aug. 1978	Sept. 1978 ^b	Aug. 1978	Sept. 1978 ^b	Aug. 1978	Sept. 1978 ^b	Aug. 1978	Sept. 1978 ^b	Aug. 1978	Sept. 1978 ^b	Aug. 1978	Sept. 1978 ^b
35	MACHINERY, EXCEPT ELECTRICAL	3.5	3.5	2.8	2.9	0.4	0.3	3.5	3.2	2.2	2.0	0.4	0.3
351	Engines and turbines	2.4	—	1.4	—	.4	—	2.0	—	.7	—	.2	—
3511	Turbines and turbine generator sets	1.2	—	.4	—	.1	—	1.4	—	.3	—	.2	—
3519	Internal combustion engines, nec	3.1	—	1.9	—	.5	—	2.3	—	1.0	—	.2	—
352	Farm and garden machinery	6.8	—	3.2	—	2.3	—	4.9	—	2.4	—	.8	—
3523	Farm machinery and equipment	5.8	—	2.7	—	1.6	—	4.9	—	2.4	—	.8	—
353	Construction and related machinery	3.2	—	3.0	—	.2	—	3.0	—	2.0	—	.2	—
3531	Construction machinery	2.3	—	2.0	—	.2	—	2.0	—	1.2	—	.2	—
3533	Oil field machinery	4.5	—	4.2	—	.1	—	4.8	—	3.3	—	.2	—
354	Metalworking machinery	2.9	—	2.5	—	.3	—	3.3	—	2.2	—	.3	—
3541	Machine tools, metal cutting types	2.3	—	1.8	—	.3	—	2.4	—	1.6	—	.1	—
3544	Special dies, tools, jigs, and fixtures	3.4	—	2.9	—	.3	—	4.1	—	2.7	—	.5	—
3545	Machine tool accessories	3.3	—	2.8	—	.3	—	3.2	—	2.3	—	.2	—
355	Special industry machinery	2.8	—	2.4	—	.2	—	3.0	—	1.9	—	.4	—
3551	Food products machinery	2.6	—	2.3	—	.2	—	2.7	—	1.8	—	.4	—
3552	Textile machinery	4.1	—	3.5	—	.3	—	5.0	—	2.8	—	.8	—
356	General industrial machinery	2.8	—	2.4	—	.2	—	3.1	—	2.1	—	.3	—
3561	Pumps and pumping equipment	2.3	—	2.1	—	.1	—	2.7	—	1.9	—	.1	—
3562	Ball and roller bearings	2.6	—	2.1	—	.2	—	2.9	—	1.4	—	.7	—
3564	Blowers and fans	3.7	—	3.4	—	.3	—	3.3	—	2.4	—	.1	—
357	Office and computing machines	3.0	—	2.4	—	.1	—	2.9	—	1.8	—	.3	—
3573	Electronic computing equipment	2.9	—	2.3	—	.1	—	2.4	—	1.6	—	.1	—
358	Refrigeration and service machinery	3.3	—	2.7	—	.4	—	4.4	—	2.5	—	.9	—
3585	Refrigeration and heating equipment	3.1	—	2.5	—	.5	—	4.3	—	2.3	—	1.0	—
359	Misc. machinery, except electrical	5.1	—	4.5	—	.5	—	5.1	—	3.5	—	.4	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	4.2	4.1	3.1	3.2	.5	.4	4.2	4.0	2.5	2.3	.6	.6
361	Electric distributing equipment	3.3	—	2.3	—	.3	—	4.3	—	2.3	—	.7	—
3612	Transformers	3.2	—	2.2	—	.3	—	4.1	—	2.0	—	1.0	—
3613	Switchgear and switchboard apparatus	3.3	—	2.4	—	.2	—	4.4	—	2.6	—	.5	—
362	Electrical industrial apparatus	3.3	—	2.3	—	.5	—	3.4	—	2.1	—	.3	—
3621	Motors and generators	3.6	—	2.4	—	.6	—	3.4	—	2.0	—	.4	—
3622	Industrial controls	2.8	—	1.9	—	.4	—	3.6	—	2.0	—	.4	—
363	Household appliances	5.0	—	3.1	—	.8	—	7.1	—	3.4	—	2.2	—
3632	Household refrigerators and freezers	3.7	—	.6	—	1.9	—	11.1	—	2.5	—	6.8	—
3633	Household laundry equipment	1.8	—	1.0	—	.3	—	5.6	—	1.5	—	2.6	—
3634	Electric housewares and fans	8.9	—	6.4	—	.8	—	7.4	—	6.0	—	.3	—
364	Electric lighting and wiring equipment	5.2	—	3.9	—	.7	—	4.5	—	2.8	—	.6	—
3641	Electric lamps	3.1	—	1.9	—	.3	—	2.5	—	1.3	—	.2	—
3643	Current-carrying wiring devices	4.2	—	3.5	—	.3	—	4.0	—	2.9	—	.2	—
365	Radio and TV receiving equipment	5.7	—	3.9	—	.9	—	5.8	—	2.6	—	.3	—
3651	Radio and TV receiving sets	5.4	—	3.7	—	.6	—	6.0	—	2.4	—	.4	—
366	Communication equipment	2.6	—	1.9	—	.4	—	2.3	—	1.4	—	.2	—
3661	Telephone and telegraph apparatus	1.6	—	1.2	—	.2	—	1.6	—	.9	—	.1	—
3662	Radio and TV communication equipment	3.0	—	2.2	—	.4	—	2.6	—	1.6	—	.3	—
367	Electronic components and accessories	5.6	—	4.6	—	.6	—	5.4	—	3.8	—	.5	—
3671-3	Electronic tubes	4.0	—	1.8	—	1.4	—	3.7	—	1.6	—	.7	—
3674	Semiconductors and related devices	3.5	—	3.0	—	.2	—	3.4	—	2.1	—	.5	—
3679	Electronic components, nec	7.4	—	6.4	—	.6	—	6.8	—	5.0	—	.5	—
369	Misc. electrical equipment and supplies	4.3	—	3.4	—	.4	—	3.5	—	2.2	—	.2	—
3694	Engine electrical equipment	3.4	—	2.6	—	.2	—	3.2	—	1.9	—	.2	—
37	TRANSPORTATION EQUIPMENT	5.5	—	3.0	—	2.1	—	4.5	—	2.0	—	1.5	—
371	Motor vehicles and equipment	6.7	—	2.7	—	3.2	—	5.1	—	1.8	—	2.2	—
3711	Motor vehicles and car bodies	9.5	—	2.1	—	6.5	—	6.5	—	1.5	—	4.1	—
3713	Truck and bus bodies	4.8	—	4.1	—	.5	—	4.8	—	3.2	—	.1	—
3714	Motor vehicle parts and accessories	4.1	—	2.9	—	.6	—	3.6	—	1.8	—	.8	—
3715	Truck trailers	7.7	—	7.4	—	.1	—	7.7	—	5.0	—	.5	—
372	Aircraft and parts	3.2	—	2.5	—	.3	—	2.0	—	1.3	—	.1	—
3721	Aircraft	3.1	—	2.4	—	.3	—	1.7	—	1.2	—	.1	—
3724	Aircraft engines and engine parts	2.3	—	1.7	—	.2	—	1.5	—	.7	—	.2	—
3728	Aircraft equipment, nec	4.5	—	4.0	—	.4	—	3.3	—	2.2	—	.1	—
373	Ship and boat building and repairing	7.2	—	4.7	—	2.4	—	7.6	—	3.5	—	2.8	—
3731	Ship building and repairing	7.0	—	4.0	—	2.9	—	7.4	—	2.8	—	3.2	—
3732	Boat building and repairing	8.2	—	7.5	—	.5	—	8.5	—	5.8	—	1.3	—
374	Railroad equipment	5.2	—	3.1	—	1.4	—	4.0	—	1.3	—	1.2	—
376	Guided missiles, space vehicles, parts	1.6	—	1.0	—	.3	—	1.5	—	.7	—	.3	—
3761	Guided missiles and space vehicles	1.7	—	1.0	—	.4	—	1.2	—	.7	—	.2	—
379	Miscellaneous transportation equipment	9.0	—	6.5	—	2.2	—	9.3	—	7.2	—	1.0	—
38	INSTRUMENTS AND RELATED PRODUCTS	3.1	3.4	2.7	2.9	.2	.2	3.3	3.9	2.4	2.6	.2	.5
381	Engineering and scientific instruments	2.7	—	2.5	—	.1	—	2.9	—	2.4	—	.1	—
382	Measuring and controlling devices	3.4	—	2.9	—	.2	—	3.4	—	2.5	—	.1	—
3822	Environmental controls	3.5	—	2.7	—	.3	—	3.5	—	2.4	—	.1	—
3823	Process control instruments	3.3	—	2.8	—	.2	—	4.2	—	3.1	—	.1	—
3825	Instruments to measure electricity	3.5	—	3.0	—	.1	—	3.0	—	2.3	—	.1	—

See footnotes at end of table.

ESTABLISHMENT DATA
LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p
INSTRUMENTS AND RELATED PRODUCTS—Cont'd													
383	Optical instruments and lenses	2.2		2.0	-	0.1	-	3.0	-	2.3	-	0.2	-
384	Medical instruments and supplies	3.6		3.1	-	.3	-	3.5	-	2.6	-	.3	-
3841	Surgical and medical instruments	3.9		3.4	-	.4	-	3.6	-	2.4	-	.3	-
3842	Surgical appliances and supplies	3.4		3.1	-	.2	-	3.5	-	2.7	-	.2	-
385	Ophthalmic goods	4.0		3.5	-	.2	-	5.3	-	3.9	-	.4	-
386	Photographic equipment and supplies	1.6		1.3	-	(1)	-	1.8	-	1.0	-	.2	-
387	Watches, clocks, and watchcases	5.7		4.9	-	.4	-	6.3	-	4.4	-	.3	-
39	MISCELLANEOUS MANUFACTURING												
	INDUSTRIES	7.6	8.4	6.5	7.1	.9	1.0	7.3	6.8	4.9	4.4	.8	0.8
391	Jewelry, silverware, and plated ware	6.7	-	5.5	-	1.1	-	7.6	-	5.3	-	.7	-
393	Musical instruments	7.5	-	6.5	-	.7	-	6.0	-	4.7	-	.3	-
394	Toys and sporting goods	10.3	-	8.9	-	1.0	-	8.8	-	5.8	-	.8	-
3942,4	Dolls, games, toys, and children's vehicles	14.3	-	12.9	-	1.0	-	10.7	-	7.5	-	.5	-
3949	Sporting and athletic goods, nec	6.2	-	4.8	-	.9	-	6.8	-	4.1	-	1.2	-
395	Pens, pencils, office and art supplies	4.4	-	4.1	-	.1	-	5.0	-	3.4	-	.4	-
396	Costume jewelry and notions	8.5	-	7.4	-	1.0	-	7.8	-	5.5	-	1.1	-
399	Miscellaneous manufactures	6.2	-	5.1	-	.8	-	6.5	-	4.1	-	.7	-
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	10.2	8.4	7.7	6.3	2.3	1.8	8.1	9.0	5.6	5.5	1.5	2.5
201	Meat products	8.1	-	6.6	-	1.1	-	8.6	-	6.6	-	1.0	-
2011	Meat packing plants	4.6	-	3.2	-	1.0	-	5.1	-	2.9	-	1.5	-
2013	Sausages and other prepared meats	5.2	-	3.9	-	1.2	-	5.8	-	3.3	-	1.4	-
2016	Poultry dressing plants	15.5	-	13.6	-	1.1	-	15.8	-	14.2	-	.2	-
202	Dairy products	4.1	-	3.7	-	.3	-	5.1	-	3.8	-	.7	-
203	Preserved fruits and vegetables	30.5	-	21.1	-	9.0	-	15.3	-	10.7	-	3.4	-
204	Grain mill products	4.3	-	3.6	-	.6	-	4.9	-	3.4	-	.8	-
205	Bakery products	3.8	-	3.4	-	.2	-	4.0	-	3.0	-	.3	-
2051	Bread, cake, and related products	3.6	-	3.4	-	.1	-	4.1	-	3.2	-	.3	-
2052	Cookies and crackers	4.3	-	3.4	-	.8	-	3.5	-	2.4	-	.4	-
206	Sugar and confectionery products	11.3	-	5.3	-	5.2	-	6.2	-	4.2	-	1.2	-
207	Fats and oils	3.4	-	2.7	-	.5	-	4.3	-	2.6	-	.9	-
208	Beverages	5.3	-	4.8	-	.4	-	6.9	-	4.4	-	1.3	-
2082	Malt beverages	2.7	-	2.0	-	.6	-	4.8	-	1.4	-	2.5	-
2086	Bottled and canned soft drinks	6.6	-	6.4	-	.2	-	8.2	-	6.2	-	.6	-
209	Misc. foods and kindred products	8.9	-	7.4	-	1.3	-	9.7	-	6.0	-	2.7	-
21	TOBACCO MANUFACTURES	9.1	-	4.3	-	4.2	-	3.2	-	2.3	-	.1	-
211	Cigarettes	2.0	-	.8	-	.6	-	2.4	-	1.6	-	(1)	-
22	TEXTILE MILL PRODUCTS	5.9	5.2	5.0	4.3	.6	.5	6.3	5.5	4.7	4.0	.4	.4
221	Weaving mills, cotton	4.8	-	3.7	-	.4	-	5.1	-	3.7	-	.2	-
222	Weaving mills, synthetics	5.2	-	4.4	-	.3	-	5.4	-	4.1	-	.2	-
223	Weaving and finishing mills, wool	5.6	-	4.8	-	.4	-	6.5	-	5.1	-	.3	-
224	Narrow fabric mills	6.0	-	5.1	-	.7	-	5.9	-	4.3	-	.6	-
225	Knitting mills	6.5	-	5.5	-	.8	-	7.0	-	5.5	-	.6	-
2251	Women's hosiery, except socks	7.0	-	6.3	-	.5	-	7.4	-	6.1	-	.2	-
2252	Hosiery, nec	6.7	-	6.3	-	.3	-	7.7	-	6.4	-	.5	-
2253	Knit outerwear mills	6.9	-	5.3	-	1.4	-	7.3	-	5.5	-	.8	-
2254	Knit underwear mills	5.7	-	5.0	-	.5	-	6.7	-	5.4	-	.4	-
2257	Circular knit fabric mills	5.4	-	4.7	-	.6	-	5.6	-	4.2	-	.7	-
226	Textile finishing, except wool	4.7	-	3.4	-	1.0	-	5.1	-	3.4	-	.6	-
227	Floor covering mills	6.6	-	5.8	-	.6	-	6.0	-	4.5	-	.3	-
228	Yarn and thread mills	8.0	-	7.0	-	.6	-	8.1	-	6.4	-	.3	-
229	Miscellaneous textile goods	4.8	-	4.1	-	.5	-	6.3	-	4.1	-	.9	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	7.2	6.3	5.2	4.9	1.6	1.1	7.0	6.5	4.9	4.4	1.0	1.2
231	Men's and boys' suits and coats	3.1	-	1.7	-	1.0	-	3.6	-	1.7	-	1.3	-
232	Men's and boys' furnishings	7.3	-	5.8	-	1.3	-	7.5	-	6.0	-	.6	-
2321	Men's and boys' shirts and nightwear	7.7	-	6.0	-	1.4	-	7.0	-	5.6	-	.5	-
2327	Men's and boys' separate trousers	7.1	-	5.1	-	1.8	-	7.3	-	5.8	-	.8	-
2328	Men's and boys' work clothing	7.6	-	6.4	-	.9	-	8.6	-	7.4	-	.4	-
233	Women's and misses' outerwear	7.0	-	4.6	-	2.0	-	6.4	-	4.2	-	1.2	-
234	Women's and children's undergarments	8.2	-	6.4	-	1.2	-	7.4	-	5.9	-	.4	-
2341	Women's and children's underwear	8.8	-	7.2	-	1.0	-	8.0	-	6.6	-	.3	-
2342	Brassieres and allied garments	5.9	-	3.4	-	2.1	-	5.1	-	3.2	-	.7	-
236	Children's outerwear	5.7	-	4.1	-	1.2	-	8.1	-	5.1	-	1.8	-
238	Misc. apparel and accessories	9.3	-	5.3	-	2.5	-	7.6	-	5.6	-	1.1	-
239	Misc. fabricated textile products	8.8	-	6.9	-	1.3	-	7.7	-	5.2	-	.8	-
26	PAPER AND ALLIED PRODUCTS	3.4	3.3	2.8	2.8	.4	.2	4.4	4.0	2.7	2.5	.6	.6
261,2,6	Paper and pulp mills	1.8	-	1.5	-	.2	-	3.1	-	1.9	-	.6	-
262	Paper mills, except building paper	1.8	-	1.5	-	.2	-	3.1	-	1.8	-	.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	
		Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p	Aug. 1978	Sept. 1978 ^p
	PAPER AND ALLIED PRODUCTS—Continued												
263	Paperboard mills	2.0	—	1.8	—	0.1	—	3.3	—	1.9	—	0.3	—
264	Misc. converted paper products	3.8	—	3.3	—	.4	—	5.2	—	3.1	—	.9	—
265	Paperboard containers and boxes	4.8	—	3.9	—	.7	—	5.1	—	3.4	—	.5	—
2651	Folding paperboard boxes	5.1	—	4.2	—	.6	—	5.0	—	3.1	—	.5	—
2653	Corrugated and solid fiber boxes	4.0	—	3.5	—	.3	—	4.7	—	3.3	—	.3	—
27	PRINTING AND PUBLISHING	4.1	4.1	3.6	3.6	.4	0.4	4.4	3.9	3.2	2.7	.5	0.5
271	Newspapers	3.9	—	3.7	—	.1	—	4.2	—	3.5	—	.2	—
272	Periodicals	3.0	—	2.7	—	.3	—	3.6	—	2.6	—	.3	—
273	Books	3.1	—	2.6	—	.4	—	4.9	—	3.2	—	1.1	—
274	Miscellaneous publishing	4.1	—	3.7	—	.4	—	4.3	—	3.3	—	.4	—
275	Commercial printing	4.3	—	3.6	—	.6	—	3.8	—	2.6	—	.5	—
2751	Commercial printing, letterpress	5.0	—	4.0	—	.8	—	3.9	—	2.8	—	.4	—
2752	Commercial printing, lithographic	4.0	—	3.5	—	.4	—	4.0	—	2.6	—	.7	—
278	Blankbooks and bookbinding	5.5	—	5.1	—	.4	—	6.1	—	4.1	—	.8	—
28	CHEMICALS AND ALLIED PRODUCTS	1.9	1.9	1.5	1.4	.2	.3	2.9	2.3	1.8	1.3	.4	.4
281	Industrial inorganic chemicals	1.5	—	1.3	—	.1	—	2.3	—	1.4	—	.3	—
2819	Industrial inorganic chemicals, nec	1.4	—	1.2	—	.1	—	2.2	—	1.3	—	.3	—
282	Plastics materials and synthetics	1.2	—	1.0	—	.1	—	2.1	—	1.4	—	.2	—
2821	Plastics materials and resins	1.5	—	1.3	—	.1	—	3.0	—	1.9	—	.3	—
2824	Organic fibers, noncellulosic	.6	—	.5	—	(1)	—	1.5	—	1.0	—	.1	—
283	Drugs	1.8	—	1.4	—	.3	—	3.3	—	1.8	—	.6	—
2834	Pharmaceutical preparations	1.9	—	1.6	—	.3	—	3.5	—	1.7	—	.7	—
284	Soap, cleaners, and toilet goods	3.5	—	2.8	—	.5	—	3.8	—	2.2	—	.4	—
2841	Soap and other detergents	2.3	—	1.9	—	.2	—	2.2	—	1.0	—	.2	—
2844	Toilet preparations	5.0	—	4.0	—	.9	—	4.7	—	2.3	—	.6	—
285	Paints and allied products	2.4	—	2.1	—	.1	—	4.4	—	3.0	—	.5	—
286	Industrial organic chemicals	1.2	—	1.0	—	(1)	—	2.1	—	1.3	—	.1	—
287	Agricultural chemicals	2.4	—	1.9	—	.4	—	3.8	—	2.4	—	.8	—
289	Miscellaneous chemical products	2.5	—	2.1	—	.3	—	3.5	—	2.4	—	.2	—
29	PETROLEUM AND COAL PRODUCTS	2.1	2.2	1.8	1.8	.1	.2	3.4	2.8	1.9	1.4	.7	.7
291	Petroleum refining	1.2	—	1.1	—	(1)	—	2.5	—	1.2	—	.5	—
295	Paving and roofing materials	5.5	—	4.6	—	.4	—	6.4	—	3.9	—	1.5	—
30	RUBBER AND MISC. PLASTICS PRODUCTS	6.2	5.7	5.3	5.0	.6	.4	6.7	5.7	4.7	3.9	.7	.6
301	Tires and inner tubes	2.2	—	1.5	—	.2	—	2.3	—	1.3	—	.2	—
302	Rubber and plastics footwear	8.3	—	6.7	—	1.1	—	10.0	—	8.0	—	.4	—
303,4	Reclaimed rubber, and rubber and plastics hose and belting	4.8	—	3.8	—	.7	—	4.9	—	2.9	—	1.0	—
306	Fabricated rubber products, nec	4.7	—	4.0	—	.3	—	5.1	—	3.3	—	.4	—
307	Miscellaneous plastics products	7.6	—	6.6	—	.8	—	8.2	—	5.8	—	.9	—
31	LEATHER AND LEATHER PRODUCTS	11.6	7.7	7.6	6.4	3.6	.9	10.5	9.0	7.6	6.2	1.5	1.5
311	Leather tanning and finishing	5.3	—	3.6	—	1.5	—	8.7	—	4.5	—	3.1	—
314	Footwear, except rubber	12.2	—	7.8	—	3.9	—	11.6	—	8.6	—	1.6	—
3143	Men's footwear, except athletic	9.7	—	7.7	—	1.6	—	11.8	—	8.8	—	1.9	—
3144	Women's footwear, except athletic	14.8	—	7.5	—	6.7	—	11.8	—	8.8	—	1.4	—
	NONMANUFACTURING:												
—	MINING	5.2	4.5	4.2	3.8	.4	.4	5.8	4.6	4.0	3.3	.5	.4
10	METAL MINING	3.1	2.6	2.7	2.3	.1	.1	4.7	3.2	2.9	1.8	.8	.5
101	Iron ores	2.7	—	2.2	—	.1	—	3.6	—	1.9	—	.5	—
102	Copper ores	1.4	—	1.1	—	.1	—	2.8	—	1.3	—	.9	—
12	BITUMINOUS COAL AND LIGNITE MINING	1.8	1.7	1.1	1.2	.1	.1	2.6	2.0	1.1	1.1	.7	.3
13	OIL AND GAS EXTRACTION	8.0	6.6	6.4	5.7	.7	.6	8.4	6.6	6.3	5.0	.4	.4
131, 2	Crude petroleum, natural gas, and natural gas liquids	2.2	—	1.7	—	.3	—	3.8	—	2.2	—	.3	—
138	Oil and gas field services	12.3	—	10.0	—	1.0	—	11.8	—	9.4	—	.5	—
14	NONMETALLIC MINERALS, EXCEPT FUELS	3.9	3.9	3.7	3.6	.2	.2	4.2	4.0	2.9	2.6	.5	.5
142	Crushed and broken stone	3.7	—	3.4	—	.1	—	4.5	—	3.1	—	.6	—
144	Sand and gravel	4.8	—	4.5	—	.3	—	4.6	—	2.9	—	.8	—
—	COMMUNICATION:												
481	Telephone communication	1.5	—	1.2	—	(1)	—	1.4	—	.7	—	.3	—

¹ Less than 0.05.

^p—preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED LABOR TURNOVER

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

[Per 100 employees]

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

^p=preliminary.

^c=corrected.

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	
	July 1978	Aug ^p 1978	July 1978	Aug ^p 1978	July 1978	Aug ^p 1978	July 1978	Aug ^p 1978	July 1978	Aug ^p 1978	July 1978	Aug ^p 1978
ALABAMA:												
Birmingham	3.2	3.3	2.5	2.6	0.5	0.3	2.6	3.2	1.3	1.7	0.5	0.5
Mobile ¹	7.0	10.1	2.1	1.9	4.8	8.0	9.7	9.3	1.6	2.2	7.0	6.1
ALASKA	17.3	17.3	15.4	15.6	1.7	1.6	15.0	27.1	8.0	13.6	5.8	11.9
ARIZONA	5.1	5.8	4.6	5.2	.4	.5	4.3	5.5	2.7	3.8	.5	.4
Phoenix	5.4	6.3	4.9	4.7	.4	.4	4.4	5.7	2.8	4.0	.5	.4
ARKANSAS	6.7	8.6	5.8	7.5	.6	.7	7.4	9.4	5.3	7.2	1.0	.8
Fort Smith	7.8	8.9	6.5	7.6	1.1	1.1	8.4	10.2	6.2	7.9	.2	.8
Little Rock-North Little Rock	4.5	5.8	4.1	5.3	.2	.2	5.0	8.3	3.4	5.4	.6	1.3
Pine Bluff	6.0	5.4	5.0	4.2	.6	.7	6.2	7.5	4.8	3.8	.8	2.9
COLORADO²	5.9	6.2	5.1	5.7	.6	.3	4.5	6.6	3.0	4.6	.6	.8
Denver-Boulder ²	5.4	5.9	4.5	5.4	.3	.3	4.6	5.5	3.0	4.1	.6	.3
CONNECTICUT	2.4	3.1	2.0	2.5	.2	.3	2.3	3.4	1.3	2.2	.4	.4
Hartford	2.5	2.7	2.1	2.3	.2	.2	1.7	2.8	1.1	1.7	.1	.3
DELAWARE¹	2.8	8.4	1.5	1.9	.5	5.5	7.0	3.3	.8	1.6	5.5	.9
Wilmington ¹	2.6	8.3	1.2	1.4	.6	5.8	7.1	2.5	.6	1.2	5.9	.8
FLORIDA	5.7	6.3	4.8	5.6	.7	.5	6.1	6.4	3.4	4.4	1.5	.6
Fort Lauderdale-Hollywood	6.9	6.5	6.6	6.0	.2	.3	5.2	6.0	3.8	4.5	.3	.2
Jacksonville	6.5	4.3	5.0	4.0	1.4	.3	6.0	5.0	2.8	3.1	1.6	.8
Miami	4.1	4.9	3.7	4.3	.4	.4	4.9	5.4	3.1	3.3	.8	.7
Orlando	4.2	4.1	3.8	3.7	.1	.3	5.5	4.4	2.4	3.0	2.4	.7
Pensacola	1.3	1.4	1.2	1.2	.1	.1	2.3	2.3	1.0	1.2	.6	.3
Tampa-St. Petersburg	6.1	(*)	5.7	(*)	.3	(*)	5.4	(*)	4.2	(*)	.2	(*)
West Palm Beach-Boca Raton	3.5	6.0	3.2	4.2	.2	1.8	3.1	4.0	1.7	2.5	.9	.3
GEORGIA	4.3	5.0	3.7	4.2	.3	.4	4.0	5.2	2.9	3.8	.3	.5
Atlanta ³	4.0	4.1	3.4	3.6	.4	.3	3.3	4.2	2.3	2.6	.2	.4
HAWAII⁴	1.9	3.4	1.2	1.1	.5	2.2	3.4	2.2	1.1	1.5	1.9	.4
IDAHO⁵	5.9	6.4	5.2	5.8	.6	.3	4.8	7.6	3.4	6.2	.5	.4
ILLINOIS:												
Chicago SMSA	3.3	4.2	2.8	3.7	.2	.2	3.0	4.6	1.6	3.0	.2	.3
INDIANA	3.5	4.3	2.5	3.4	.4	.5	3.1	5.3	1.6	3.2	.6	1.1
Indianapolis ⁶	2.8	3.6	1.8	2.5	.2	.2	2.4	3.7	1.2	2.5	.5	.3
IOWA	3.6	4.8	2.7	3.9	.6	.6	2.9	4.8	1.6	3.6	.6	.4
Cedar Rapids	3.5	5.1	2.4	4.1	.8	.7	2.0	3.9	1.1	2.2	.4	.8
Des Moines	4.8	7.3	3.6	4.9	.2	1.5	3.4	6.7	2.2	4.2	.1	.3
KANSAS	5.2	7.3	4.6	6.7	.4	.4	5.4	9.8	3.6	5.9	.9	2.7
Topeka	2.2	2.1	1.8	2.0	.4	.1	9.2	5.6	1.9	4.4	6.5	.6
Wichita	6.9	8.8	6.1	7.9	.5	.5	5.2	6.9	3.8	5.0	.1	.1
KENTUCKY	3.1	3.8	2.4	2.8	.4	.7	2.8	4.2	1.6	2.6	.3	.6
Louisville	2.5	3.2	1.6	1.9	.3	.6	2.0	3.4	.8	1.6	.2	.4
LOUISIANA:												
New Orleans	4.5	4.8	4.0	4.3	.2	.2	4.8	7.6	2.6	3.4	1.1	3.0
MAINE	6.2	8.0	4.8	6.5	1.1	1.3	5.4	7.5	3.3	5.3	1.3	1.2
Portland	3.8	4.7	3.6	4.4	.1	.1	3.9	5.1	2.4	3.6	.7	.7
MARYLAND	3.2	4.8	2.0	2.5	1.1	2.1	4.2	3.4	1.2	1.9	2.4	.6
Baltimore	3.2	5.2	1.9	2.1	1.1	2.8	4.8	3.2	1.1	1.6	3.0	.8
MASSACHUSETTS	4.5	4.5	2.6	3.3	1.6	.9	5.2	4.7	1.8	2.9	2.3	.6
Boston	3.2	3.6	2.4	2.7	.6	.5	3.7	3.9	1.5	2.3	1.2	.4
MICHIGAN	2.8	(*)	1.9	(*)	.5	(*)	3.4	(*)	1.0	(*)	1.7	(*)
Detroit	2.5	(*)	1.8	(*)	.3	(*)	4.1	(*)	1.1	(*)	2.4	(*)
Flint	1.9	(*)	1.1	(*)	(⁷)	(*)	1.8	(*)	.4	(*)	.7	(*)
Grand Rapids	4.2	(*)	3.3	(*)	.4	(*)	3.4	(*)	1.7	(*)	.6	(*)
Lansing-East Lansing	1.0	(*)	.9	(*)	(⁷)	(*)	.6	(*)	.4	(*)	(⁷)	(*)

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	July 1978	Aug. ^p 1978	July 1978	Aug. ^p 1978	July 1978	Aug. ^p 1978	July 1978	Aug. ^p 1978	July 1978	Aug. ^p 1978	July 1978	Aug. ^p 1978
MINNESOTA	4.0	5.6	3.3	4.6	0.5	0.8	3.5	4.9	2.0	3.6	0.8	0.5
Minneapolis—St. Paul	3.1	3.7	2.7	3.3	.2	.2	2.6	4.1	1.7	2.8	.2	.5
MISSISSIPPI:												
Jackson	5.1	5.7	4.1	5.4	.9	.2	5.1	7.5	2.8	5.0	.2	.6
MISSOURI	3.5	4.2	2.9	3.6	.4	.4	3.6	5.3	2.1	3.6	.7	.8
Kansas City	3.4	4.7	2.8	4.2	.4	.4	4.2	5.5	2.0	3.6	1.3	.9
St. Louis	2.6	2.9	2.1	2.4	.4	.3	2.2	4.0	1.2	2.5	.3	.6
MONTANA	3.5	(*)	2.6	(*)	(*)	(*)	2.6	(*)	1.6	(*)	.3	(*)
NEBRASKA	4.4	5.6	3.8	5.0	.4	.3	4.0	5.9	2.9	4.7	.3	.3
NEVADA	8.5	11.4	7.9	10.5	.2	.6	8.1	8.7	5.3	6.5	.9	.6
NEW HAMPSHIRE	4.4	6.0	3.7	4.8	.5	.9	4.6	5.3	2.6	4.2	1.3	.3
NEW JERSEY:												
Camden ⁸	3.9	4.3	1.8	2.9	1.8	1.0	4.9	5.0	1.5	2.5	2.6	1.5
Hackensack	3.4	5.7	2.6	4.1	.7	1.5	4.8	5.4	1.7	3.3	2.1	.9
Jersey City	4.4	4.4	2.6	3.3	1.7	.7	5.2	5.0	1.1	1.9	3.2	2.1
Newark	3.2	5.0	2.2	3.0	.7	1.7	3.8	4.5	1.2	2.5	1.7	.8
New Brunswick—Perth Amboy—Sayreville	4.4	5.5	3.0	4.6	1.2	.4	5.0	5.4	1.4	3.2	2.2	.6
Paterson—Clifton—Passaic	4.6	6.6	3.0	4.4	1.3	1.9	5.7	5.3	1.7	2.9	2.9	.9
Trenton	4.0	4.1	2.1	2.8	1.8	1.1	3.6	3.5	1.0	2.1	2.1	.5
NEW YORK												
Albany—Schenectady—Troy	4.4	5.1	2.6	3.2	1.7	1.6	5.0	4.3	1.3	2.1	2.9	1.2
Binghamton	2.9	3.7	1.5	2.2	.9	1.0	3.8	3.8	1.1	1.6	1.6	1.2
Buffalo	2.9	6.8	2.1	3.1	.7	3.5	5.7	3.5	1.3	2.5	3.8	.3
Elmira	3.2	3.2	2.2	2.2	.7	.8	3.4	3.7	.8	1.5	1.8	1.4
Monroe County ⁹	4.4	2.9	2.4	1.8	1.8	.8	3.2	5.4	1.2	1.8	.8	2.1
Nassau—Suffolk ¹⁰	2.3	2.5	1.8	2.1	.4	.2	2.0	2.4	.8	1.5	.9	.3
New York and Nassau—Suffolk	4.8	6.3	3.9	4.7	.8	1.4	5.6	6.1	2.2	4.0	2.3	.9
New York SMSA ¹⁰	5.0	5.8	2.9	3.6	2.0	2.1	6.1	4.7	1.4	2.1	3.8	1.6
New York City ¹¹	5.0	5.7	2.6	3.3	2.3	2.3	6.2	4.3	1.2	1.7	4.1	1.7
Rochester	5.3	6.1	2.7	3.4	2.5	2.6	6.8	4.5	1.2	1.7	4.6	1.9
Syracuse	3.5	4.0	2.3	3.1	1.0	.6	2.3	3.1	.9	1.9	1.0	.4
Utica—Rome	3.6	4.3	1.9	3.2	1.5	.9	3.6	3.7	.9	1.9	2.1	.7
Westchester County ¹¹	3.2	3.7	1.8	2.4	1.4	1.3	4.2	3.5	1.0	2.1	2.6	.5
NORTH CAROLINA	3.4	3.4	2.1	2.5	1.0	.7	2.9	2.8	1.1	1.6	1.1	.5
Charlotte—Gastonia	4.7	6.5	4.0	5.5	.3	.6	4.3	6.7	3.3	5.3	.2	.3
Greensboro—Winston-Salem—High Point	5.7	7.5	5.1	6.9	.4	.4	5.7	8.0	4.1	6.5	.4	.3
NORTH DAKOTA	4.1	5.5	3.4	4.8	.1	.2	3.6	6.2	2.8	4.9	.1	.1
Fargo—Moorhead	6.6	6.5	5.2	5.0	1.1	1.2	4.6	7.4	3.3	5.5	.5	.9
OHIO	7.3	6.4	5.9	5.5	1.0	.7	3.1	4.7	2.2	3.5	(7)	.3
Akron	2.7	3.5	1.8	2.6	(*)	(*)	2.5	3.3	1.1	1.9	.6	.5
Canton	1.9	2.0	1.3	1.5	(*)	(*)	1.9	1.9	1.1	1.2	.2	.2
Cincinnati	2.5	3.5	1.2	2.4	(*)	(*)	2.4	3.2	.8	1.6	.5	.3
Cleveland	2.8	2.9	2.3	2.5	(*)	(*)	2.1	3.3	1.2	2.0	.2	.3
Columbus	3.1	3.2	2.3	2.6	(*)	(*)	3.0	3.0	1.4	1.8	.7	.2
Dayton	2.4	3.5	1.9	2.6	(*)	(*)	2.6	2.9	1.4	1.9	.4	.2
Toledo	2.1	2.5	1.7	2.0	(*)	(*)	2.0	3.1	.9	2.0	.3	.3
Youngstown—Warren	2.5	2.6	1.4	1.5	(*)	(*)	2.0	2.5	.8	1.2	.3	.4
OKLAHOMA	2.3	2.0	1.3	.8	(*)	(*)	2.0	2.9	.5	.8	.6	1.1
Oklahoma City	6.8	8.5	6.2	7.5	.4	.6	6.6	8.9	5.2	7.1	.3	.5
Tulsa ¹²	5.8	8.2	5.4	7.3	.4	.8	5.8	8.7	4.6	6.9	.4	.4
OREGON ¹	7.2	8.6	6.7	7.6	.2	.7	6.9	8.7	4.9	6.5	.5	.8
Portland ¹	4.4	5.3	3.6	4.5	.6	.7	4.4	5.0	2.4	3.1	.7	.7
PENNSYLVANIA	5.0	6.1	4.0	4.9	.8	1.0	5.1	5.5	2.5	3.2	1.1	1.3
Allentown—Bethlehem—Easton	2.8	3.2	1.8	2.1	.9	.9	2.9	3.5	1.1	2.0	1.2	.7
Altoona	2.6	2.7	1.5	1.7	.9	.9	3.3	2.9	1.0	1.7	1.9	.9
Erie	4.6	4.4	1.0	1.5	3.5	2.7	5.4	3.4	.8	1.6	4.3	1.2
Harrisburg	2.4	4.1	1.4	1.9	.7	1.8	3.5	3.1	1.0	1.7	1.5	.3
Johnstown	4.7	3.6	3.4	2.9	1.1	.6	2.8	3.4	1.6	2.6	.7	.2
Lancaster	2.0	3.6	.8	1.4	1.2	2.1	2.0	3.2	.6	1.5	.8	1.1
Pittsburgh	3.5	3.5	3.0	3.1	.4	.3	3.1	4.2	2.1	3.1	.4	.2

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	
	July 1978	Aug. 1978 ^p	July 1978	Aug. 1978 ^p	July 1978	Aug. 1978 ^p	July 1978	Aug. 1978 ^p	July 1978	Aug. 1978 ^p	July 1978	Aug. 1978 ^p
PENNSYLVANIA—Continued												
Northeast Pennsylvania	4.4	4.5	1.6	1.8	2.6	2.3	5.9	3.6	1.1	2.0	4.3	1.0
Philadelphia SMSA	2.4	3.1	1.5	2.1	.7	.9	2.9	3.3	1.0	1.8	1.2	.8
Pittsburgh	2.6	2.3	1.4	1.4	1.0	.6	2.0	3.1	.5	1.4	.8	.8
Reading	3.4	3.4	1.8	2.7	1.5	.9	4.0	3.3	1.4	2.3	2.1	.4
Scranton ¹³	3.5	4.7	1.6	1.5	1.8	3.1	4.9	2.7	.7	1.6	3.6	.6
Wilkes-Barre—Hazleton	4.3	4.0	1.4	1.9	2.6	1.6	5.9	3.6	1.2	1.9	4.3	1.1
Williamsport	2.3	3.1	1.6	2.5	.7	.4	3.1	3.0	1.1	1.5	1.5	1.1
York	4.7	6.1	3.5	3.9	1.0	2.1	3.9	6.2	2.2	3.7	1.1	1.6
RHODE ISLAND												
Providence—Warwick—Pawtucket	5.9	6.4	4.8	5.5	.8	.5	5.1	6.7	3.0	4.9	.9	.6
Providence—Warwick—Pawtucket	6.5	6.7	4.6	5.7	1.6	.6	5.7	6.9	2.9	5.1	1.6	.6
SOUTH CAROLINA												
Charleston—North Charleston	5.5	5.1	3.3	4.3	2.0	.5	5.6	5.6	2.7	4.1	2.1	.4
Charleston—North Charleston	5.0	4.3	3.5	3.6	1.3	.6	5.5	7.6	2.5	5.2	2.0	.9
Columbia	4.2	5.8	3.8	5.6	.3	.1	4.3	7.7	2.3	5.1	1.1	1.6
Greenville—Spartanburg	5.6	5.5	3.7	4.9	1.7	.4	5.5	6.3	2.9	4.7	1.7	.4
SOUTH DAKOTA												
Sioux Falls	5.1	6.8	4.7	6.3	.3	.3	4.0	7.4	2.8	6.1	.3	.6
Sioux Falls	4.8	5.5	4.1	5.4	.5	.2	3.1	6.1	2.3	4.9	.2	.5
TENNESSEE:												
Memphis	3.9	3.8	3.4	3.3	.3	.2	3.5	4.4	2.1	2.9	.5	.3
TEXAS:												
Dallas—Fort Worth	5.9	(*)	5.5	(*)	.2	(*)	5.4	(*)	3.9	(*)	.2	(*)
Houston	4.9	(*)	4.6	(*)	.2	(*)	4.5	(*)	3.3	(*)	.2	(*)
San Antonio	5.0	(*)	4.6	(*)	.2	(*)	5.4	(*)	3.6	(*)	.4	(*)
UTAH⁴												
Salt Lake City—Ogden ⁴	6.3	7.3	5.5	6.6	.5	.5	4.7	7.0	3.4	5.3	.6	.8
Salt Lake City—Ogden ⁴	6.9	7.1	6.6	6.6	.2	.3	5.2	6.7	3.7	5.0	.8	.8
VERMONT												
Burlington	5.1	4.1	3.0	3.6	1.6	.3	4.3	4.3	1.9	2.7	1.7	.7
Burlington	3.7	2.6	2.4	2.2	.3	(⁷)	1.6	2.9	.8	1.0	.5	1.5
Springfield	3.9	2.7	2.7	2.5	1.1	.2	3.2	3.2	1.4	1.7	1.0	.6
VIRGINIA												
Richmond	3.5	5.0	2.6	3.6	.6	1.1	3.6	4.7	2.1	3.2	.5	.4
Richmond	2.3	3.0	1.5	2.2	.5	.4	2.1	2.1	.9	1.3	.5	(⁷)
WASHINGTON:												
Seattle—Everett ¹⁴	5.6	4.6	4.4	3.5	.8	.8	3.3	2.7	1.8	1.5	.6	.5
WISCONSIN												
Milwaukee	5.2	5.1	3.5	4.0	1.1	.7	3.2	5.2	1.6	3.7	.9	.5
Milwaukee	3.4	4.1	2.2	3.1	.6	.6	3.1	4.0	1.2	2.5	1.0	.4
WYOMING												
.....	7.0	8.4	5.5	7.4	1.4	1.0	6.8	10.4	4.4	8.3	1.2	1.0

¹ Excludes canning and preserving.

² Based on the 1967 Standard Industrial Classification Manual.

³ Excludes agricultural chemicals, and miscellaneous manufacturing.

⁴ Excludes canned fruits, vegetables, preserves, jams, and jellies.

⁵ Excludes canning and preserving, and sugar.

⁶ Excludes canning and preserving, and newspapers.

⁷ Less than 0.05.

⁸ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

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.

¹² Excludes new-hire rate for transportation equipment.

¹³ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.

¹⁴ Excludes canning and preserving, printing and publishing.

^p preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
ALABAMA	1,544.5	1,593.8	1,586.4	110.3	90.4	88.7	7.1	5.7	5.6
Birmingham	359.7	377.5	374.7	22.8	17.4	18.7	6.4	4.6	5.0
Huntsville	127.4	132.5	131.8	8.9	8.7	7.0	7.0	6.6	5.3
Mobile	175.5	180.1	179.8	14.1	11.7	11.6	8.0	6.5	6.5
Montgomery	108.9	115.3	113.3	6.5	6.2	6.0	6.0	5.4	5.3
Tuscaloosa	52.5	51.8	52.0	3.8	3.1	2.8	7.2	6.0	5.3
ALASKA	175.3	193.8	188.8	12.6	18.1	17.4	7.2	9.3	9.2
ARIZONA	980.0	985.8	1,012.2	79.8	53.2	55.7	8.1	5.4	5.5
Phoenix	576.1	589.9	603.3	39.1	27.5	28.5	6.8	4.7	4.7
Tucson	182.0	181.8	187.2	15.9	8.9	9.3	8.8	4.9	5.0
ARKANSAS	939.9	938.8	934.8	52.1	53.8	56.8	5.5	5.7	6.1
Fayetteville-Springdale	69.8	69.7	69.5	2.7	3.0	2.8	3.9	4.3	4.1
Fort Smith ¹	81.2	82.5	82.7	4.8	5.5	5.5	6.0	6.6	6.7
Little Rock-North Little Rock	178.0	180.9	177.9	7.3	8.0	9.6	4.1	4.4	5.4
Pine Bluff	35.9	36.1	36.6	1.6	2.6	2.7	4.5	7.3	7.3
CALIFORNIA ²	10,171.4	10,691.4	10,632.0	776.5	744.7	678.4	7.6	7.0	6.4
Anaheim-Santa Ana-Garden Grove	910.9	995.5	975.7	53.8	61.4	46.6	5.9	6.2	4.8
Bakersfield	163.9	174.7	168.9	12.9	14.6	14.1	7.9	8.4	8.4
Fresno	293.7	270.4	287.3	19.3	20.6	19.0	6.6	7.6	6.6
Los Angeles-Long Beach ²	3,327.0	3,425.0	3,526.0	265.0	192.0	206.0	8.0	5.6	5.8
Modesto	133.1	142.4	136.4	9.7	12.0	9.3	7.3	8.4	6.8
Oxnard-Simi Valley-Ventura	193.9	211.7	205.3	16.6	24.2	17.9	8.5	11.4	8.7
Riverside-San Bernardino-Ontario	501.6	538.9	530.1	43.4	45.7	39.4	8.7	8.5	7.4
Sacramento	424.7	461.0	443.7	31.9	37.3	28.9	7.5	8.1	6.5
Salinas-Seaside-Monterey	124.3	132.8	127.3	8.0	9.6	7.3	6.4	7.2	5.8
San Diego	646.7	683.8	675.0	54.3	51.3	44.3	8.4	7.5	6.6
San Francisco-Oakland	1,498.8	1,565.8	1,530.9	106.9	107.4	98.0	7.1	6.9	6.4
San Jose	606.5	675.7	653.7	35.9	40.6	35.4	5.9	6.0	5.4
Santa Barbara-Santa Maria-Lompoc	129.2	136.0	131.6	9.5	10.1	8.9	7.4	7.4	6.7
Santa Rosa	112.6	118.4	116.0	10.0	9.0	8.2	8.8	7.6	7.0
Stockton	163.4	170.1	168.4	11.3	15.8	12.0	6.9	9.3	7.1
Vallejo-Fairfield-Napa	116.3	124.5	121.1	8.8	7.9	7.7	7.5	6.4	6.3
COLORADO	1,261.0	N.A.	N.A.	71.5	N.A.	N.A.	5.7	N.A.	N.A.
Denver-Boulder	736.2	N.A.	N.A.	41.2	N.A.	N.A.	5.5	N.A.	N.A.
CONNECTICUT	1,514.1	1,520.9	1,515.2	90.6	69.0	65.7	6.0	4.5	4.3
Bridgeport	184.2	184.2	184.8	11.6	8.5	8.8	6.3	4.6	4.8
Hartford	360.1	366.5	364.4	19.9	15.7	14.4	5.5	4.3	4.0
New Britain	70.8	70.6	69.3	4.3	3.8	2.7	6.1	5.4	3.9
New Haven-West Haven	199.6	196.3	194.5	14.3	8.4	7.8	7.2	4.3	4.0
Stamford	111.8	118.6	118.3	5.0	4.0	4.7	4.5	3.3	3.9
Waterbury	107.7	108.5	107.8	7.7	5.6	5.4	7.2	5.1	5.0
DELAWARE	271.0	283.4	276.2	19.4	27.4	18.3	7.2	9.7	6.6
Wilmington ¹	236.7	240.3	236.8	17.5	23.5	15.0	7.4	9.8	6.3
DISTRICT OF COLUMBIA	326.5	337.4	329.3	31.1	32.0	28.8	9.5	9.5	8.7
Washington SMSA ¹	1,544.4	1,581.9	1,562.2	76.4	75.5	70.3	4.9	4.8	4.5
FLORIDA ²	3,574.7	3,712.8	3,807.4	276.2	244.6	289.5	7.7	6.6	7.6
Fort Lauderdale-Hollywood	354.1	369.1	378.2	30.4	24.1	28.9	8.5	6.5	7.6
Jacksonville	303.7	303.8	320.3	18.9	17.5	21.5	6.2	5.8	6.7
Miami	694.0	726.3	735.1	58.5	49.6	58.0	8.4	6.8	7.9
Orlando	279.9	290.5	297.2	21.6	17.5	21.2	7.7	6.0	7.1
Pensacola	109.8	115.2	117.1	5.6	6.0	7.4	5.1	5.2	6.4
Tampa-St. Petersburg	551.4	575.9	590.9	38.2	34.8	40.3	6.9	6.0	6.8
West Palm Beach-Boca Raton	192.4	199.4	208.2	17.2	14.9	18.1	8.9	7.5	8.7
GEORGIA	2,298.0	2,360.3	2,352.2	151.0	151.8	139.3	6.6	6.4	5.9
Atlanta	871.4	878.2	876.3	60.4	60.6	51.3	6.9	6.9	5.9
Augusta ¹	122.6	129.4	128.6	9.3	8.3	8.2	7.6	6.4	6.4
Columbus ¹	86.6	89.4	89.2	6.3	6.2	6.4	7.2	6.9	7.1
Macon	105.2	104.9	104.1	8.9	6.7	6.7	8.5	6.4	6.5
Savannah	88.3	89.1	88.9	6.2	5.8	6.0	7.0	6.5	6.7

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
HAWAII	397.2	410.7	398.8	29.1	30.5	32.3	7.3	7.4	8.1
Honolulu	311.9	322.1	314.4	22.5	23.2	25.2	7.2	7.2	8.0
IDAHO	404.7	436.6	423.8	19.9	21.4	19.3	4.9	4.9	4.6
Boise City	80.0	92.9	90.7	2.4	2.4	2.5	3.0	2.6	2.8
ILLINOIS ²	5,241.1	5,427.0	5,335.4	305.0	325.2	272.4	5.8	6.0	5.1
Bloomington—Normal	60.1	60.5	N.A.	2.0	2.3	N.A.	3.3	3.8	N.A.
Champaign—Urbana—Rantoul	73.6	73.5	N.A.	2.9	3.6	N.A.	3.9	5.0	N.A.
Chicago	3,340.0	3,470.9	N.A.	194.6	203.1	N.A.	5.8	5.9	N.A.
Davenport—Rock Island—Moline ¹	174.6	179.7	N.A.	8.0	8.6	N.A.	4.6	4.8	N.A.
Decatur	60.5	62.2	N.A.	3.7	5.9	N.A.	6.1	9.4	N.A.
Peoria	171.1	178.8	N.A.	8.3	8.7	N.A.	4.9	4.9	N.A.
Rockford	130.9	137.4	N.A.	9.2	7.0	N.A.	7.1	5.1	N.A.
Springfield	95.2	104.0	N.A.	4.8	6.0	N.A.	5.1	5.8	N.A.
INDIANA	2,468.9	2,578.9	2,580.9	118.4	138.0	135.9	4.8	5.4	5.3
Evansville ¹	134.0	139.9	138.7	6.5	9.1	7.1	4.9	5.8	5.1
Fort Wayne	177.2	185.5	186.5	7.4	8.6	8.5	4.2	4.6	4.6
Gary—Hammond—East Chicago	280.7	296.4	290.6	15.9	16.1	17.0	5.7	5.4	5.8
Indianapolis	550.8	571.8	574.3	27.5	28.7	29.0	5.0	5.0	5.1
Muncie	54.4	56.8	56.8	2.9	4.2	3.8	5.3	7.4	6.7
South Bend	131.4	136.6	137.4	5.4	7.5	7.1	4.1	5.5	5.1
Terre Haute	76.7	78.9	80.3	3.4	4.0	4.0	4.4	5.0	4.9
IOWA	1,403.7	1,419.4	1,426.4	45.9	45.9	38.9	3.3	3.2	2.7
Cedar Rapids	83.3	85.1	86.1	2.8	2.1	2.0	3.3	2.5	2.3
Des Moines	171.0	175.8	176.5	6.1	6.5	5.2	3.6	3.7	3.0
Dubuque	44.4	44.6	45.0	2.0	2.0	1.8	4.5	4.4	4.0
Sioux City ¹	58.4	57.5	58.0	2.2	3.3	2.7	3.7	5.7	4.7
Waterloo—Cedar Falls	65.7	65.2	66.5	2.5	2.6	2.3	3.9	4.0	3.4
KANSAS	1,139.7	1,157.1	1,165.2	45.2	35.4	30.5	4.0	3.1	2.6
Topeka	95.3	95.9	95.3	4.2	3.5	3.2	4.4	3.6	3.4
Wichita	211.0	214.1	212.3	10.2	7.0	6.2	4.8	3.3	2.9
KENTUCKY	1,554.8	1,608.7	1,593.5	61.1	84.9	73.6	3.9	5.3	4.6
Lexington—Fayette	158.4	163.3	164.1	4.6	5.5	4.5	2.9	3.4	2.7
Louisville ¹	400.7	426.7	418.0	18.8	23.7	19.5	4.7	5.6	4.7
LOUISIANA	1,592.9	1,617.8	1,622.6	107.0	108.2	103.3	6.7	6.7	6.4
Baton Rouge	201.0	200.7	200.5	15.2	12.8	11.8	7.6	6.4	5.9
Lake Charles	65.8	64.8	63.1	5.0	5.2	4.4	7.5	8.0	7.0
Monroe	51.7	53.7	53.1	3.2	4.0	3.5	6.2	7.4	6.6
New Orleans	460.7	464.8	464.0	34.4	32.1	30.1	7.5	6.9	6.5
Shreveport	146.9	152.2	152.1	8.7	9.6	9.6	5.9	6.3	6.3
MAINE	484.8	489.0	486.1	31.7	24.5	23.4	6.5	5.0	4.8
Lewiston—Auburn	37.0	36.2	36.8	2.4	1.4	1.7	6.4	3.9	4.5
Portland	83.4	86.5	85.2	5.1	3.4	3.5	6.2	4.0	4.1
MARYLAND	1,943.5	2,053.0	2,024.7	98.5	97.7	86.6	5.1	4.8	4.3
Baltimore	959.7	1,048.6	1,031.7	53.2	55.5	48.1	5.5	5.3	4.7
MASSACHUSETTS ²	2,800.9	2,905.1	2,813.6	254.9	195.2	162.1	9.1	6.7	5.8
Boston	1,341.2	1,403.9	1,359.7	124.2	90.5	75.4	9.3	6.4	5.5
Brockton	78.6	82.5	80.8	8.2	5.4	4.8	10.4	6.6	6.0
Fall River ¹	77.6	82.8	81.6	6.9	5.0	4.8	8.9	6.1	5.9
Lawrence—Haverhill ¹	N.A.	143.5	139.1	N.A.	11.2	9.1	N.A.	7.8	6.6
Lowell	108.0	115.4	112.1	10.2	8.5	6.9	9.5	7.4	6.2
New Bedford	82.8	82.0	79.1	9.5	6.8	5.8	11.5	8.2	7.3
Springfield—Chicopee—Holyoke	273.2	280.8	274.0	21.0	19.3	15.1	7.7	6.9	5.5
Worcester	193.9	197.1	193.6	14.0	11.2	9.1	7.2	5.7	4.7
MICHIGAN ²	4,125.7	4,198.8	4,182.2	308.0	337.1	242.5	7.5	8.0	5.8
Ann Arbor	130.7	130.5	131.5	8.1	8.1	6.3	6.2	6.2	4.8
Battle Creek	80.9	82.2	81.8	6.1	5.6	4.8	7.5	6.2	5.9
Bay City	52.4	53.8	54.2	3.9	3.5	3.1	7.5	6.5	5.8
Detroit	1,965.9	2,001.6	1,986.3	145.3	163.8	108.8	7.4	8.2	5.5
Flint	219.2	222.3	226.5	16.9	25.2	17.5	7.7	11.3	7.7

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
MICHIGAN—Continued									
Grand Rapids	280.2	286.8	288.0	16.2	14.9	12.8	5.8	5.2	4.5
Jackson	65.0	65.3	65.9	4.7	3.6	3.2	7.3	5.5	4.8
Kalamazoo—Portage	130.0	129.1	131.5	7.9	7.9	6.7	6.1	6.1	5.1
Lansing—East Lansing	215.4	221.7	222.0	14.7	23.7	12.3	6.9	10.7	5.5
Muskegon—Norton Shores—Muskegon Heights	76.2	77.2	76.9	6.1	6.4	5.4	8.0	8.3	7.1
Saginaw	99.7	103.6	103.3	6.2	6.3	4.8	6.2	6.1	4.6
MINNESOTA	1,941.3	2,026.2	2,007.6	78.9	67.3	60.3	4.1	3.3	3.0
Duluth—Superior ¹	114.2	121.8	N.A.	8.8	5.5	N.A.	7.7	4.5	N.A.
Minneapolis—St. Paul	1,015.0	1,046.2	1,046.5	38.5	32.4	29.0	3.9	3.1	2.8
MISSISSIPPI	988.7	976.3	975.4	70.2	77.8	69.7	7.1	8.0	7.1
Jackson	138.6	140.9	139.1	8.5	8.1	7.7	6.2	5.7	5.5
MISSOURI	2,245.7	2,254.9	2,253.9	118.1	117.7	98.2	5.3	5.2	4.4
Kansas City ¹	666.4	676.4	678.1	37.1	30.2	25.3	5.5	4.5	3.7
St. Joseph	46.4	44.3	44.1	2.8	2.1	2.2	5.9	4.9	4.9
St. Louis ¹	1,073.4	1,075.9	N.A.	65.1	70.1	N.A.	6.1	6.5	N.A.
Springfield	99.0	99.0	100.5	4.0	4.1	3.6	4.0	4.2	3.6
MONTANA	355.7	377.5	365.4	19.4	19.7	17.1	5.5	5.2	4.7
Billings	53.9	51.0	50.5	2.4	2.2	1.9	4.4	4.2	3.8
Great Falls	35.6	34.2	33.5	2.2	2.2	2.1	6.2	6.5	6.3
NEBRASKA	763.3	784.1	778.8	26.2	20.8	22.1	3.4	2.7	2.8
Lincoln	107.2	109.0	112.4	2.9	2.6	2.7	2.7	2.4	2.4
Omaha ¹	277.4	279.7	281.0	14.5	10.2	11.1	5.2	3.7	3.9
NEVADA	329.8	343.7	340.4	19.9	12.5	13.4	6.0	3.6	3.9
Las Vegas	177.7	182.3	181.3	12.8	7.6	8.1	7.2	4.2	4.5
Reno	93.5	103.8	102.2	3.7	2.1	2.2	3.9	2.0	2.2
NEW HAMPSHIRE	421.0	442.4	435.0	20.4	16.6	14.8	4.8	3.8	3.4
Manchester	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
NEW JERSEY²	3,394.6	3,502.3	3,526.4	310.8	236.3	251.7	9.2	6.7	7.1
Atlantic City	86.0	95.4	90.4	9.0	6.9	7.6	10.5	7.2	8.4
Jersey City	256.8	259.0	258.6	32.4	26.3	27.5	12.6	10.2	10.7
Long Branch—Asbury Park	221.2	232.1	229.5	19.3	15.4	16.4	8.7	6.7	7.2
Newark	939.8	969.7	976.4	86.6	63.9	68.0	9.2	6.6	7.0
New Brunswick—Perth Amboy—Sayreville	303.6	319.5	323.8	25.8	20.8	21.1	8.5	6.5	6.5
Paterson—Clifton—Passaic	210.5	216.6	219.1	23.1	17.3	18.4	11.0	8.0	8.4
Trenton	158.3	157.6	165.1	11.1	8.1	9.7	7.0	5.2	5.9
Vineland—Millville—Bridgeton	58.5	63.2	64.2	6.4	5.3	5.9	11.0	8.4	9.1
NEW MEXICO	514.7	536.9	539.1	34.7	30.0	32.4	6.7	5.6	6.0
Albuquerque	188.7	196.8	198.1	13.3	11.2	12.4	7.1	5.7	6.3
NEW YORK²	7,650.9	8,026.2	7,849.9	683.2	584.0	603.3	8.9	7.3	7.7
Albany—Schenectady—Troy	350.8	373.5	361.7	22.9	19.6	21.3	6.5	5.3	5.9
Binghamton ¹	132.8	138.8	136.3	9.2	7.8	8.5	6.9	5.6	6.2
Buffalo	559.3	583.8	566.8	46.3	47.3	47.0	8.3	8.1	8.3
Elmira	40.2	41.4	40.4	3.6	2.9	2.8	8.9	6.9	7.0
Nassau—Suffolk	1,214.6	1,297.1	1,256.4	105.1	90.0	90.4	8.7	6.9	7.2
New York	3,523.1	3,663.3	3,607.2	359.4	296.6	307.5	10.2	8.1	8.5
New York City ²	2,956.0	3,062.0	3,027.0	319.0	256.0	270.0	10.8	8.4	8.9
Poughkeepsie	97.0	103.2	101.4	5.4	5.0	5.1	5.6	4.9	5.1
Rochester	444.9	463.0	452.9	28.4	24.6	26.2	6.4	5.3	5.8
Syracuse	286.4	301.4	295.5	20.8	19.1	19.7	7.2	6.3	6.7
Utica—Rome	136.2	141.4	137.9	11.0	8.7	9.5	8.1	6.1	6.9
NORTH CAROLINA	2,649.7	2,723.0	2,697.7	134.8	101.6	91.9	5.1	3.7	3.4
Asheville	80.7	85.1	83.0	3.2	3.0	2.8	4.0	3.5	3.4
Charlotte—Gastonia	322.6	322.0	324.5	14.4	9.8	9.0	4.5	3.0	2.8
Greensboro—Winston-Salem—High Point	404.5	405.5	408.2	19.2	14.0	12.9	4.8	3.5	3.2
Raleigh—Durham	260.0	266.4	270.4	9.9	7.1	7.0	3.8	2.7	2.6
NORTH DAKOTA	300.5	321.3	304.2	11.1	11.2	9.9	3.7	3.5	3.3
Fargo—Moorehead ¹	68.0	71.0	70.5	2.2	2.1	2.0	3.3	3.0	2.9

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		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
OHIO ¹	4,873.9	5,012.0	5,031.1	295.1	261.4	272.8	6.1	5.2	5.4
Akron	294.5	301.5	300.4	17.7	16.7	17.3	6.0	5.5	5.8
Canton	176.1	180.6	179.1	11.5	9.2	9.1	6.5	5.1	5.1
Cincinnati ¹	628.0	651.1	651.6	33.4	33.2	32.8	5.3	5.1	5.0
Cleveland	913.8	938.7	938.6	52.3	42.3	45.2	5.7	4.5	4.8
Columbus	515.5	528.9	530.1	28.1	25.3	26.7	5.4	4.9	5.0
Dayton	372.6	380.5	383.8	19.6	17.2	17.6	5.3	4.5	4.6
Toledo ¹	358.4	369.3	371.1	24.6	22.8	23.0	6.9	6.2	6.2
Youngstown—Warren	238.4	238.9	241.3	17.9	16.4	15.6	7.5	6.9	6.5
OKLAHOMA	1,243.0	1,254.9	1,249.5	59.4	41.9	35.3	4.8	3.3	2.8
Oklahoma City	370.7	389.6	388.6	15.8	11.5	10.1	4.3	3.0	2.6
Tulsa	297.5	299.6	294.6	14.8	9.4	8.2	5.0	3.1	2.8
OREGON	1,151.6	1,195.3	1,195.6	69.5	62.4	64.7	6.0	5.2	5.4
Eugene—Springfield	118.9	121.1	122.2	8.7	7.7	8.3	7.3	6.3	6.8
Portland ¹	542.9	573.1	571.6	31.8	26.7	27.7	5.9	4.7	4.9
Salem	112.4	117.0	114.4	5.6	5.2	5.4	5.0	4.5	4.7
PENNSYLVANIA ²	5,183.7	5,315.7	5,273.0	391.7	347.2	373.3	7.6	6.5	7.1
Allentown—Bethlehem—Easton ¹	299.9	305.2	301.7	20.4	18.4	17.1	6.8	6.0	5.7
Altoona	56.3	58.9	57.8	3.9	4.0	4.6	7.0	6.7	7.9
Erie	120.9	123.6	124.0	8.2	7.8	8.6	6.8	6.3	6.9
Harrisburg	207.5	216.4	213.8	11.8	10.3	10.9	5.7	4.8	5.1
Johnstown	107.2	107.8	106.1	13.5	9.3	9.5	12.6	8.6	9.0
Lancaster	164.3	172.9	169.4	7.2	7.2	7.6	4.4	4.1	4.5
Northeast Pennsylvania	271.4	273.5	268.3	25.5	21.0	22.2	9.4	7.7	8.3
Philadelphia ¹	2,073.6	2,097.4	2,106.6	186.5	153.2	169.4	9.0	7.3	8.0
Pittsburgh	968.4	998.1	987.6	59.8	57.0	60.7	6.2	5.7	6.1
Reading	145.0	149.0	149.7	8.6	8.1	8.2	5.9	5.4	5.5
Williamsport	50.5	53.0	52.7	4.0	3.7	4.0	8.0	7.0	7.5
York	157.6	165.1	163.8	8.9	9.3	8.1	5.7	5.6	5.0
RHODE ISLAND	444.7	437.3	435.3	35.4	25.6	21.1	8.0	5.9	4.9
Providence—Warwick—Pawtucket ¹	447.1	440.8	438.5	36.8	26.9	21.9	8.2	6.1	5.0
SOUTH CAROLINA	1,298.2	1,326.9	1,314.1	87.1	78.7	74.0	6.7	5.9	5.6
Charleston—North Charleston	147.8	148.7	147.5	11.3	10.2	9.8	7.6	6.8	6.6
Columbia	167.8	169.9	172.2	8.8	7.1	7.4	5.2	4.2	4.3
Greenville—Spartanburg	255.8	260.0	257.6	15.7	12.4	11.6	6.1	4.8	4.5
SOUTH DAKOTA	325.9	341.5	329.2	7.1	10.3	8.4	2.2	3.0	2.6
Sioux Falls	55.8	58.0	57.4	1.0	1.5	1.2	1.9	2.6	2.0
TENNESSEE	1,946.5	1,938.6	1,956.8	105.7	109.5	108.6	5.4	5.6	5.5
Chattanooga ¹	184.6	184.7	185.9	10.1	10.2	10.7	5.5	5.5	5.7
Knoxville	200.4	199.5	198.6	8.9	9.0	8.9	4.5	4.5	4.5
Memphis ¹	379.6	376.4	377.5	23.7	23.2	22.8	6.2	6.2	6.0
Nashville—Davidson	386.4	390.5	394.2	15.8	17.4	16.4	4.1	4.5	4.2
TEXAS ²	5,782.6	6,041.2	5,935.6	315.2	305.6	284.7	5.5	5.1	4.8
Amarillo	84.8	86.3	86.3	3.7	3.2	4.3	4.3	3.6	3.7
Austin	223.6	236.2	233.2	10.4	8.7	8.2	4.6	3.7	3.5
Beaumont—Port Arthur—Orange	164.7	165.6	164.4	11.2	11.1	10.7	6.8	6.7	6.5
Corpus Christi	124.1	130.6	128.3	8.5	7.6	7.5	6.8	5.8	5.8
Dallas—Fort Worth	1,324.6	1,394.0	1,372.8	64.8	64.0	56.1	4.9	4.6	4.1
El Paso	162.2	164.3	161.3	18.8	15.7	14.9	11.6	9.6	9.2
Galveston—Texas City	87.1	92.1	89.5	6.0	5.3	5.1	6.8	5.8	5.8
Houston	1,276.6	1,368.8	1,335.9	58.1	58.0	53.5	4.5	4.2	4.0
Lubbock	100.2	102.5	101.3	3.9	4.2	3.5	3.9	4.1	3.5
San Antonio	390.5	409.0	401.0	28.9	28.1	26.1	7.4	6.9	6.5
Waco	75.8	79.0	77.4	3.7	3.9	3.5	4.9	4.9	4.5
Wichita Falls	58.5	60.3	59.8	2.3	2.2	2.3	3.9	3.7	3.9
UTAH	539.0	550.5	552.1	25.1	18.3	16.8	4.6	3.3	3.0
Salt Lake City—Ogden	356.5	364.8	363.1	17.0	12.6	11.5	4.9	3.4	3.2
VERMONT	233.0	244.2	242.6	13.6	10.7	9.3	5.8	4.4	3.8

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P	SEPT. 1977	AUG. 1978	SEPT. 1978P
VIRGINIA	2,400.7	2,505.6	2,504.1	111.4	129.5	125.6	4.6	5.2	5.0
Lynchburg	69.8	73.4	73.0	2.9	3.5	3.1	4.1	4.8	4.3
Newport News—Hampton	154.9	164.6	161.5	7.9	9.5	9.0	5.1	5.8	5.6
Norfolk—Virginia Beach—Portsmouth ¹	310.2	324.4	324.6	16.3	19.2	17.9	5.3	5.9	5.5
Richmond	314.4	330.2	328.6	11.3	11.9	10.7	3.6	3.6	3.3
Roanoke	109.4	114.7	114.4	5.0	5.1	5.0	4.5	4.5	4.3
WASHINGTON	1,676.5	1,767.4	1,773.7	130.8	106.1	95.5	7.8	6.0	5.4
Seattle—Everett	712.8	769.6	771.7	54.5	38.9	38.3	7.6	5.1	5.0
Spokane	132.3	139.3	138.9	9.6	7.2	6.9	7.2	5.2	4.9
Tacoma	158.2	164.4	165.9	14.5	11.5	10.9	9.1	7.0	6.6
WEST VIRGINIA	700.0	717.1	729.4	40.1	43.6	44.5	5.7	6.1	6.1
Charleston	113.0	115.3	116.5	4.2	3.6	3.5	3.7	3.1	3.0
Huntington—Ashland ¹	114.1	115.5	114.7	6.4	6.1	5.8	5.6	5.3	5.0
Parkersburg—Marietta ¹	63.7	65.8	65.4	3.2	3.2	2.7	5.0	4.8	4.1
Wheeling ¹	77.1	79.0	81.3	3.8	3.6	5.6	4.9	4.5	6.9
WISCONSIN	2,247.3	2,339.4	2,336.1	93.4	111.2	100.3	4.2	4.8	4.3
Appleton—Oshkosh	140.8	143.0	N.A.	5.3	5.9	N.A.	3.9	4.1	N.A.
Green Bay	87.0	86.6	N.A.	3.6	4.3	N.A.	4.1	5.0	N.A.
Kenosha	61.2	61.6	N.A.	4.6	4.3	N.A.	7.5	7.0	N.A.
La Crosse	43.7	44.3	N.A.	1.7	2.1	N.A.	3.8	4.7	N.A.
Madison	175.5	171.5	N.A.	5.3	6.1	N.A.	3.0	3.5	N.A.
Milwaukee	715.6	707.2	N.A.	29.1	28.7	N.A.	4.1	4.1	N.A.
Racine	89.6	90.6	N.A.	4.7	5.1	N.A.	5.3	5.6	N.A.
WYOMING	205.5	221.0	219.1	6.1	5.3	6.2	3.0	2.4	2.8

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 1977 have been benchmarked to 1977 Current Population Survey annual averages. Except in the 10 largest States designated by footnote 2, estimates for 1978

are provisional 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," or "Unemployment Rates for States and Local Governments, Second Quarter 1978." 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.

F-1. Gross and spendable earnings of production or nonsupervisory workers¹ on total private nonagricultural payrolls, in current and 1967 dollars, seasonally adjusted, 1964-78

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.
GROSS AVERAGE HOURLY EARNINGS - IN CURRENT DOLLARS												
1964.....	2.32	2.33	2.33	2.34	2.35	2.35	2.36	2.38	2.38	2.37	2.39	2.40
1965.....	2.40	2.42	2.43	2.43	2.45	2.45	2.46	2.47	2.47	2.49	2.50	2.50
1966.....	2.51	2.52	2.53	2.54	2.55	2.56	2.57	2.57	2.59	2.60	2.61	2.61
1967.....	2.63	2.63	2.64	2.65	2.65	2.67	2.69	2.70	2.70	2.71	2.73	2.74
1968.....	2.76	2.77	2.79	2.81	2.82	2.84	2.85	2.87	2.89	2.90	2.92	2.94
1969.....	2.95	2.97	2.98	3.00	3.02	3.04	3.05	3.07	3.08	3.10	3.12	3.13
1970.....	3.14	3.16	3.18	3.18	3.20	3.22	3.24	3.26	3.27	3.27	3.29	3.31
1971.....	3.34	3.36	3.39	3.40	3.43	3.44	3.45	3.48	3.48	3.50	3.51	3.54
1972.....	3.61	3.61	3.64	3.66	3.67	3.67	3.69	3.72	3.74	3.77	3.78	3.81
1973.....	3.83	3.84	3.86	3.89	3.90	3.92	3.96	3.96	3.99	4.01	4.04	4.06
1974.....	4.07	4.10	4.12	4.13	4.19	4.24	4.25	4.29	4.33	4.36	4.36	4.40
1975.....	4.41	4.42	4.45	4.46	4.49	4.52	4.53	4.57	4.59	4.61	4.66	4.67
1976.....	4.71	4.73	4.75	4.78	4.82	4.84	4.87	4.91	4.94	4.96	5.01	5.03
1977.....	5.07	5.10	5.14	5.18	5.20	5.23	5.27	5.27	5.31	5.36	5.39	5.41
1978.....	5.46	5.49	5.54	5.61	5.62	5.66						
GROSS AVERAGE HOURLY EARNINGS - IN 1967 DOLLARS												
1964.....	2.50	2.52	2.51	2.52	2.53	2.53	2.54	2.56	2.56	2.54	2.56	2.56
1965.....	2.56	2.58	2.59	2.58	2.60	2.59	2.60	2.61	2.61	2.63	2.63	2.62
1966.....	2.63	2.62	2.63	2.63	2.63	2.64	2.64	2.63	2.64	2.64	2.65	2.65
1967.....	2.66	2.66	2.67	2.67	2.67	2.68	2.69	2.69	2.68	2.68	2.69	2.69
1968.....	2.70	2.71	2.71	2.73	2.73	2.74	2.73	2.74	2.75	2.74	2.75	2.76
1969.....	2.76	2.77	2.76	2.76	2.77	2.77	2.77	2.78	2.77	2.78	2.78	2.77
1970.....	2.77	2.77	2.77	2.76	2.77	2.77	2.78	2.79	2.78	2.77	2.78	2.78
1971.....	2.80	2.81	2.83	2.83	2.84	2.83	2.83	2.85	2.85	2.86	2.86	2.88
1972.....	2.93	2.91	2.93	2.94	2.94	2.94	2.94	2.96	2.96	2.98	2.98	2.99
1973.....	2.99	2.97	2.97	2.97	2.96	2.96	2.99	2.94	2.95	2.94	2.94	2.93
1974.....	2.91	2.90	2.88	2.87	2.88	2.89	2.87	2.86	2.86	2.85	2.83	2.83
1975.....	2.82	2.81	2.82	2.81	2.82	2.81	2.79	2.81	2.81	2.80	2.82	2.81
1976.....	2.82	2.83	2.83	2.84	2.84	2.84	2.85	2.86	2.87	2.87	2.89	2.89
1977.....	2.89	2.88	2.88	2.88	2.87	2.88	2.89	2.88	2.89	2.91	2.91	2.91
1978.....	2.91	2.91	2.91	2.92	2.90	2.90						
GROSS AVERAGE WEEKLY EARNINGS - IN CURRENT DOLLARS												
1964.....	89.09	90.17	90.17	90.79	90.95	90.95	91.33	92.11	91.39	91.72	92.49	93.36
1965.....	93.36	93.90	94.53	94.28	95.06	94.82	95.20	95.34	95.10	96.36	96.75	97.00
1966.....	97.14	98.03	98.16	98.30	98.43	98.82	99.20	99.20	99.72	100.10	100.22	100.22
1967.....	100.99	100.20	100.32	100.44	100.70	101.46	101.95	102.60	102.60	102.71	103.74	103.85
1968.....	104.05	104.98	105.46	105.66	106.88	107.64	108.02	108.49	109.53	109.62	109.79	110.54
1969.....	111.51	111.67	112.35	113.10	114.16	114.30	114.99	115.74	116.12	116.56	117.00	117.69
1970.....	117.44	118.18	118.61	118.30	119.04	119.46	120.53	120.95	120.34	120.66	121.40	122.14
1971.....	123.25	123.98	125.09	125.46	126.57	126.94	126.62	128.41	127.37	129.15	129.87	130.98
1972.....	133.21	133.57	134.68	135.79	135.42	135.79	136.16	137.27	138.38	139.87	139.86	140.21
1973.....	140.94	142.08	143.21	144.32	144.30	145.04	146.52	146.12	147.23	147.57	149.48	149.41
1974.....	149.37	150.88	151.20	150.33	153.35	155.18	155.55	156.59	158.05	158.70	157.83	158.84
1975.....	159.20	159.12	159.31	160.11	161.19	162.72	163.08	165.43	165.70	166.88	168.69	169.52
1976.....	171.92	172.17	171.95	172.56	174.48	174.72	175.81	176.76	177.35	178.56	180.36	181.08
1977.....	181.51	184.11	185.55	187.00	187.72	188.28	189.72	189.19	190.63	193.50	194.04	194.22
1978.....	193.83	195.99	199.44	202.52	201.76	203.19						
GROSS AVERAGE WEEKLY EARNINGS - IN 1967 DOLLARS												
1964.....	96.12	97.39	97.29	97.90	98.01	97.90	98.27	99.10	98.15	98.38	98.96	99.74
1965.....	99.65	100.21	100.81	100.26	100.82	100.16	100.59	100.85	100.39	101.61	101.77	101.67
1966.....	101.71	101.98	101.86	101.63	101.58	101.83	102.03	101.41	101.69	101.68	101.77	101.65
1967.....	102.32	101.31	101.44	101.35	101.41	101.77	101.95	102.19	101.79	101.59	102.31	102.11
1968.....	101.91	102.52	102.59	102.48	103.37	103.70	103.47	103.52	104.12	103.71	103.38	103.79
1969.....	104.41	104.17	103.93	104.05	104.73	104.29	104.44	104.65	104.52	104.44	104.28	104.24
1970.....	103.47	103.58	103.50	102.69	102.89	102.89	103.46	103.55	102.42	102.17	102.45	102.55
1971.....	103.31	103.75	104.42	104.38	104.78	104.56	104.04	105.25	104.23	105.51	105.93	106.40
1972.....	108.04	107.80	108.53	109.16	108.60	108.63	108.58	109.20	109.65	110.57	110.21	110.14
1973.....	110.20	109.88	110.33	110.34	109.57	109.55	110.58	108.32	108.74	108.19	108.71	107.88
1974.....	106.77	106.55	105.66	104.40	105.25	105.64	105.17	104.53	104.25	103.79	102.35	102.15
1975.....	101.86	101.22	100.89	100.89	101.06	101.26	100.60	101.74	101.41	101.51	102.05	102.00
1976.....	102.95	102.91	102.53	102.41	102.94	102.66	102.87	102.95	102.87	103.15	103.95	103.95
1977.....	103.37	103.84	104.01	103.95	103.77	103.56	104.01	103.33	103.72	104.93	104.77	104.42
1978.....	103.38	103.86	104.86	105.59	104.21	104.04						
SPENDABLE AVERAGE WEEKLY EARNINGS-MARRIED WORKER WITH 3 DEPENDENTS - IN CURRENT DOLLARS												
1964.....	80.78	81.64	81.64	82.14	82.27	82.27	82.57	83.19	82.62	82.88	83.50	84.23
1965.....	84.86	85.32	85.85	85.64	86.30	86.10	86.42	86.54	86.34	87.39	87.72	87.93
1966.....	87.32	88.03	88.13	88.24	88.35	88.66	88.96	88.96	89.38	89.68	89.78	89.78
1967.....	90.19	89.56	89.65	89.75	89.96	90.56	90.95	91.47	91.47	91.56	92.38	92.46
1968.....	92.62	93.36	93.75	93.61	94.55	95.13	95.42	95.78	96.57	96.64	96.77	97.34
1969.....	97.64	97.76	98.28	98.85	99.65	99.76	100.28	100.85	101.15	101.48	101.82	102.35
1970.....	103.03	103.60	103.94	103.69	104.28	104.61	105.46	105.79	105.31	105.56	106.14	106.73
1971.....	109.23	109.81	110.68	110.97	111.85	112.14	111.89	113.30	112.48	113.88	114.46	115.32
1972.....	118.77	119.05	119.93	120.80	120.51	120.80	121.09	121.97	122.84	124.02	124.01	124.29
1973.....	123.95	124.82	125.70	126.55	126.54	127.11	128.25	127.94	128.80	129.06	130.53	130.48
1974.....	130.45	131.61	131.86	131.19	133.52	134.93	135.22	136.02	137.15	137.65	136.98	137.76
1975.....	138.03	137.97	138.12	138.73	146.00	147.20	147.48	149.31	149.52	150.46	151.85	152.48
1976.....	153.16	153.35	153.18	153.65	155.13	155.32	156.14	156.86	157.30	158.21	159.56	160.10
1977.....	160.42	162.38	163.46	164.55	165.09	172.14	173.27	172.86	173.99	176.24	176.67	176.81
1978.....	173.27	174.93	177.52	179.83	179.26	180.33						

See footnote at end of table.

F-1. Gross and spendable earnings of production or nonsupervisory workers on total private nonagricultural payrolls, in current and 1967 dollars, seasonally adjusted, 1964-78 -- Continued

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.
SPENDABLE AVERAGE WEEKLY EARNINGS-MARRIED WORKER WITH 3 DEPENDENTS - IN 1967 DOLLARS												
1964.....	87.15	88.17	88.09	88.57	88.65	88.56	88.84	89.50	88.73	88.90	89.34	89.99
1965.....	90.58	91.06	91.55	91.07	91.53	90.95	91.31	91.54	91.14	92.15	92.27	92.16
1966.....	91.42	91.57	91.45	91.23	91.18	91.36	91.49	90.94	91.15	91.09	91.17	91.06
1967.....	91.38	90.56	90.65	90.57	90.59	90.83	90.95	91.11	90.74	90.56	91.10	90.91
1968.....	90.71	91.17	91.20	90.80	91.44	91.65	91.40	91.39	91.80	91.43	91.12	91.40
1969.....	91.42	91.19	90.92	90.94	91.42	91.02	91.08	91.18	91.04	90.93	90.75	90.66
1970.....	90.78	90.80	90.70	90.01	90.13	90.10	90.52	90.57	89.63	89.38	89.57	89.61
1971.....	91.56	91.89	92.39	92.32	92.59	92.37	91.94	92.87	92.05	93.04	93.36	93.68
1972.....	96.33	96.09	96.64	97.11	96.64	96.64	96.56	97.03	97.34	98.04	97.72	97.64
1973.....	96.91	96.54	96.84	96.75	96.08	96.00	96.79	94.84	95.13	94.62	94.93	94.21
1974.....	93.25	92.94	92.15	91.10	91.64	91.85	91.43	90.80	90.47	90.03	88.83	88.59
1975.....	88.31	87.77	87.47	87.42	91.54	91.60	90.98	91.83	91.51	91.52	91.86	91.74
1976.....	91.71	91.66	91.34	91.19	91.52	91.26	91.36	91.36	91.24	91.40	91.97	91.91
1977.....	91.36	91.58	91.63	91.47	91.26	94.69	94.99	94.41	94.66	95.57	95.39	95.06
1978.....	92.41	92.70	93.33	93.76	92.59	92.33						

¹ Data relate to production and related workers in mining and manufacturing; to construction workers in construction; and to non-supervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.

Explanatory Notes

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

Introduction

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

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

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

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

Employment

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

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

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

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

Hours of work

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

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

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

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

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

Household data

(A tables)

COLLECTION AND COVERAGE

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

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

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

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

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

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

CONCEPTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Nonveterans are males who never served in the Armed Forces.

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

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

HISTORIC COMPARABILITY

Raised lower age limit

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

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

Noncomparability of labor force levels

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

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

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

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

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

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

Changes in occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational classifications introduced into the Current Population Survey (CPS). These changes stemmed from an exhaustive review of the classification system to be used for the 1970 Census of Population. This review, the most comprehensive since the 1940 census, was to reduce the size of large groups, to be more specific about general and "not elsewhere classified" groups, and to provide information on emerging significant occupations. Differences in March 1970 employment levels tabulated on both the 1960 and

1970 classification systems ranged from a drop of 650,000 in operatives to an increase of 570,000 in service workers, much of which resulted from a shift between these two groups; the non-farm laborers group increased by 420,000, and changes in other groups amounted to 220,000 or less.

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

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

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

Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for eight months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a non-contiguous cluster of six housing units to a usually contiguous cluster of four housing units. A recent change was introduced in January 1978, when a supplemental sample of housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. This sample is composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units. These new construction units are composed of those units where building permits were issued prior to January 1970 and construction was not completed by the time of the 1970 Census (i.e., April 1970). The extent of other sources of housing undercoverage is unknown but believed to be small. The

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

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

² These are households which were visited, but were found to

be vacant or otherwise not eligible for interview.

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

inclusion of this coverage improvement sample in the CPS does not have a significant effect on the estimates.

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

ESTIMATING METHODS

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

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

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

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

a. *First-stage ratio estimate.* In the CPS sample, a portion of the 614 sample areas are chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the contribution to the variance resulting from requiring sample areas to represent nonsample areas. Therefore this procedure is not applied to sample areas which represent only themselves. The procedure is applied within each State that contains nonsample areas and takes into account the differences that existed at the time of the 1970 census in the distribution by race and residence of the population in sample areas and the known race-residence distribution in the portions of the State represented by these areas.

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

The independent controls by State for the civilian noninstitutional population 16 years and over are an arithmetic extrapolation

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

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

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

Rounding of estimates

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

Reliability of the estimates

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table A. Standard errors of major employment status categories

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

Table B. Standard errors of unemployment rates for major characteristics

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

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

Estimated monthly level	Characteristics 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)

Estimated monthly level	Type of characteristic ¹							
	Labor force data other than unemployment and agriculture employment data							
	Total or white	Black and other	Total, or white, 16-19 years	Black and other, 16-19 years	Unemployment			
					Total or white	Both sexes 16-19 years, or part-time labor force 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 of unemployment rates

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

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

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

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

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

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

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

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

Establishment data

(B, C, and D tables)

COLLECTION

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

Federal-State cooperation

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

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

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

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

Industry employment

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

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

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

Industry hours and earnings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Labor turnover

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

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

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

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

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

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

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

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

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

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

Relationship of labor turnover to employment series

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

ESTIMATING METHODS

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

The "link relative" technique

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

Table I. 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 I. 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 aggregate (of each labor turnover action) divided by annual sum of employment.	Annual aggregate (of each labor turnover action) divided by annual sum of employment.

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

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.

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

Size and regional stratification

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

Benchmark adjustments

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

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

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

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

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

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

THE SAMPLE

Design

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

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

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

Coverage

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

Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a "link relative" technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling 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 M presents the average percent revisions (based on the 1967 SIC) of the

Table K. Approximate size and coverage of BLS employment and payrolls sample, March 1977¹

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

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

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

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

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

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

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

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

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

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

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

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

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

Table M. Average benchmark percent revision in employment estimates and relative errors for average weekly hours and average hourly earnings by industry division¹

[In percent]

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

¹ Based on 1967 SIC.

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

³ Relative errors relate to March 1971 data.

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

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

Table N. Root-mean-square errors of differences between benchmarks and estimates of employment and average relative errors for average weekly hours and average hourly earnings¹

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

¹ Based on 1967 SIC.

² Assuming 12-month intervals between benchmark revisions.

³ Relative errors relate to March 1971 data.

Table O. Errors of preliminary employment estimates¹

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

¹ Based on 1967 SIC.

STATISTICS FOR STATES AND AREAS

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

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

PRODUCTIVITY DATA

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

Definition

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

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

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

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

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

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

Notes on the data

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

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

State and area unemployment data

(E table)

FEDERAL-STATE COOPERATIVE PROGRAM

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

ESTIMATING METHODS

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

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

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

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

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

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

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

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

$U = A(X + E) + BX$, Where

U = total entrant unemployment

E = total employment

X = total experienced unemployment

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

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

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

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

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

Seasonal adjustment

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

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

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

adjusting teenage unemployment and those few other unemployment series (e.g., unemployed new entrants) of which teenagers are the exclusive or major part. In January 1978, modifications were introduced in the procedure for seasonally adjusting teenage nonagricultural employment, a number of other teenage employment series, and adult male unemployment.

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

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

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

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

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

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

The revised seasonally adjusted series for the establishment data reflect experience through May 1978. Seasonal factors to be used for current adjustment appear in the October 1978 issue of *Employment and Earnings*.

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

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