

Employment and Earnings

August 1980



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Calendar of Features

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

Household data

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

Establishment data

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

¹ The issue that introduces new benchmark varies. The June 1980 issue marks the introduction of March 1979 benchmarks.

² Revised data introduced October 1979.

Employment and Earnings

Vol. 27 No. 8 August 1980

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

Contents

	<i>Page</i>
List of statistical tables	2
Employment and unemployment developments, July 1980	4
Charts	6
Statistical tables:	
Not seasonally adjusted—	
Household data	20
Establishment data:	
Employment	49
Hours and earnings	81
Labor turnover	112
State and area unemployment data	121
Seasonally adjusted series—	
Household data	42
Establishment data:	
Employment	66
Hours and earnings	102
Productivity	104
Labor turnover	117
Explanatory notes	126

MONTHLY HOUSEHOLD DATA

Page

Employment Status

A- 1.	Employment status of the noninstitutional population, 16 years and over, 1947 to date	18
A- 2.	Employment status of the noninstitutional population 16 years and over by sex, 1972 to date	19
A- 3.	Employment status of the noninstitutional population by sex, age, and race	20
A- 4.	Labor force by sex, age, and race	22
A- 5.	Employment status of black workers by sex and age	24
A- 6.	Employment status of the noninstitutional population by race, sex, and age	25
A- 7.	Employment status of the noninstitutional population 16-21 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	43
A-35.	Employment status by race, sex, and age, seasonally adjusted	43
A-36.	Major unemployment indicators, seasonally adjusted	44
A-37.	Unemployed persons by duration of unemployment, seasonally adjusted	44
A-38.	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 by age	48
-------	---	----

MONTHLY ESTABLISHMENT DATA

Page

Employment—National

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

Employment—State and Area

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

Hours and Earnings—National

C- 1.	Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, 1959 to date	81
C- 2.	Gross hours and earnings of production or nonsupervisory workers on private nonagricultural payrolls, by industry	82
C- 3.	Employment, hours, and indexes of earnings in the Executive Branch of the Federal Government	98
C- 4.	Average hourly earnings excluding overtime of production workers on manufacturing payrolls, by industry	98
C- 5.	Gross and spendable average weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, in current and 1967 dollars	99
C- 6.	Indexes of aggregate weekly hours and payrolls of production or nonsupervisory workers on private nonagricultural payrolls	100
C- 7.	Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls, by industry division and major manufacturing group, seasonally adjusted	102
C- 8.	Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by industry division and major manufacturing group, seasonally adjusted	103
C- 9.	Hourly Earnings Index and average hourly and weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls, seasonally adjusted	104
C-10.	Hours of wage and salary workers in nonagricultural establishments, by industry division . . .	104
C-11.	Indexes of output and compensation per hour, unit costs, and prices, private business sector, seasonally adjusted	105
C-12.	Percent changes from preceding quarter and year in productivity, hourly compensation, unit costs, and prices, private business sector, seasonally adjusted, at annual rate	106

Hours and Earnings—State and Area

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

Labor Turnover—National

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

Labor Turnover—State and Area

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

MONTHLY STATE AND AREA UNEMPLOYMENT DATA

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

Employment and Unemployment Developments, July 1980

Unemployment was about unchanged in July, while there were contrasting movements in the two major employment series. The Nation's unemployment rate was 7.8 percent, little different from the May and June rates.

Total employment—as measured by the monthly survey of households—rose by 460,000 in July, following 4 consecutive monthly declines.

Nonfarm payroll employment—as measured by the monthly survey of establishments—fell by 240,000 in July. An increase in strike activity contributed to the drop. Like total employment, payroll jobs declined during the February-June period.

Unemployment

The unemployment rate was 7.8 percent in July, about unchanged from the May and June rates of 7.8 and 7.7 percent, respectively, and substantially above the levels which prevailed earlier this year. There was little or no over-the-month change in the rate for adult men (6.7 percent), adult women (6.7 percent), and teenagers (19.0 percent). Jobless rates for most other worker categories also remained near their May and June levels. (See table A-36.)

The number of unemployed persons, at 8.2 million in July, was similar to the levels registered in May and June but was up about 2 million since the turn of the year. The median duration of unemployment increased for the second month in a row. In July, it reached 7.1 weeks, as the number of persons unemployed 27 weeks or more rose substantially. About 1 of every 9 jobseekers had been out of work at least half a year. (See tables A-33 and A-37.)

Total employment and the labor force

Employment (as measured by the household survey) increased by 460,000 in July, following a decline of about the same magnitude in June (See table A-33.) Since the February employment peak, the total number of jobholders has dropped by about 950,000 to 97.0 million. The July increase took place among both men and women; however, a disproportionately large share of the overall growth occurred among 16-24 year old women.

The employment-population ratio edged up over the month, but was about a point below its year-earlier

level. All of the over-the-year decline in the ratio took place among men.

The civilian labor force increased about 650,000 in July, following 2 months of large swings (up 725,000 in May and down 600,000 in June). On an over-the-year basis, the labor force increased by 2.0 million, about in line with growth of the working-age population. Accordingly, the labor force participation rate was about unchanged between July 1979 and July 1980.

Industry payroll employment

The number of employees on nonagricultural payrolls fell by 240,000 to 89.7 million in July. A large net increase in strike activity contributed to this decline. (In contrast to their treatment in the household survey, workers on strike are not included in the payroll job count.) The continued drop in nonfarm payroll employment left the series 1.5 million lower than the February peak. (See table B-4.)

Nearly all of the over-the-month decline occurred in the goods-producing sector, as both mining and construction were affected by major work stoppages. Manufacturing, which continued to suffer severe job cutbacks, lost an additional 255,000 jobs in July; both durable and nondurable goods manufacturers reported fewer employees. In durables, the most seriously affected industries were primary metals and fabricated metals, in both of which employment fell by 50,000; sizable job losses also occurred in machinery, electrical equipment, and furniture. In the nondurable goods industries, declines were most visible in apparel, food, and textiles.

After 2 months of decline, employment in the service-producing sector rose slightly in July. The 85,000 over-the-month increase was the result of divergent movements within the sector. Services and retail trade were the largest contributors to the sector's employment growth. (The gain in retail trade followed 4 consecutive monthly declines.) Federal government employment, on the other hand, fell sharply, as the number of temporary employees engaged in the 1980 Decennial Census was reduced.

Hours of work

The average workweek for production or nonsupervisory workers on private nonagricultural payrolls edged down to 35.0 hours in July. The manufacturing

workweek remained at 39.1 hours. Manufacturing overtime was up 0.1 hour after 3 consecutive months of decline. (See table C-7.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls fell 0.6 percent in July to 121.8 (1967 = 100) as a result of the drops in employment and hours. The index has declined 4.2 percent since the recession began in January. The manufacturing index was down 1.5 percent over the month, reflecting the drop in factory employment. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls rose 0.3 percent over the month and 7.8 percent over the year (seasonally adjusted). Average weekly earnings were un-

changed in July, but were up 6.0 percent over the year.

Before adjustment for seasonality, average hourly earnings rose 1 cent in July to \$6.62 and have risen 46 cents over the year. Average weekly earnings fell 30 cents over the month to \$233.69 in July, but were up \$11.93 over the year. (See tables C-1 and C-9.)

The Hourly Earnings Index

The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 251.3 (1967 = 100) in July, 0.2 percent higher than in June. The Index was 8.9 percent above July of a year ago. In dollars of constant purchasing power, the Index decreased 4.2 percent during the 12-month period ended in June. (See table C-9.)

CHARTS

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

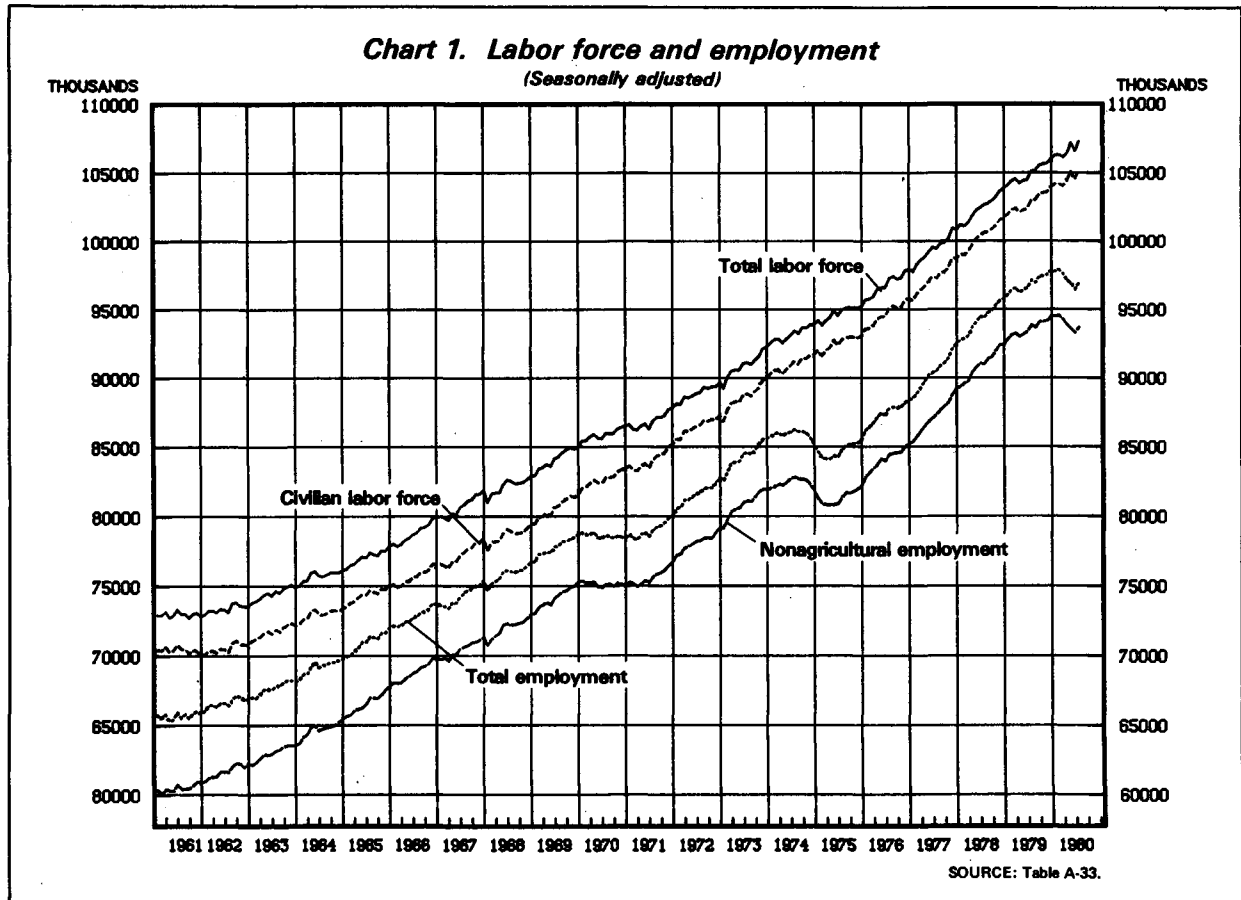


Chart 2. Major unemployment indicators
(Seasonally adjusted)

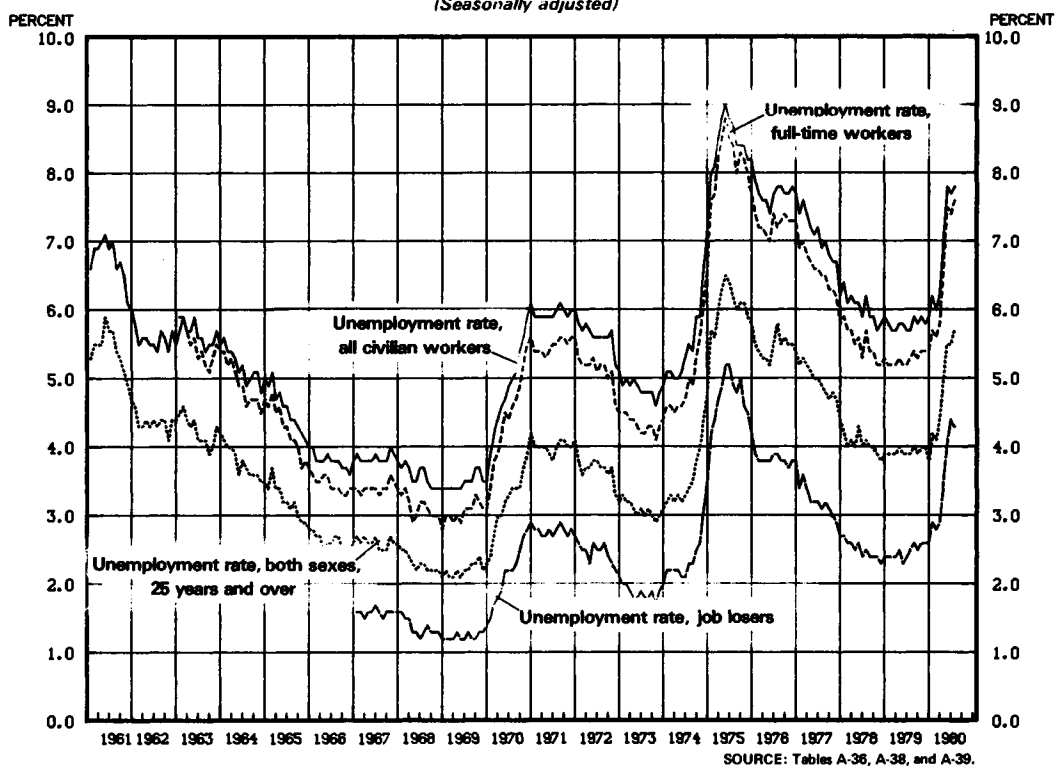


Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)

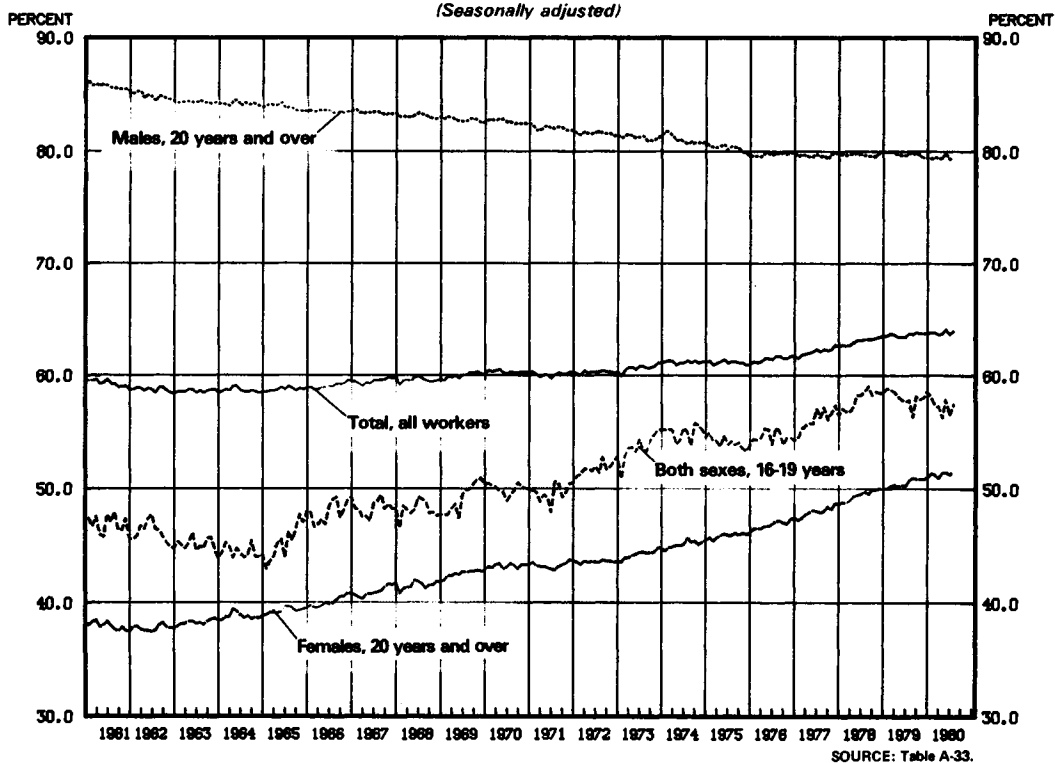
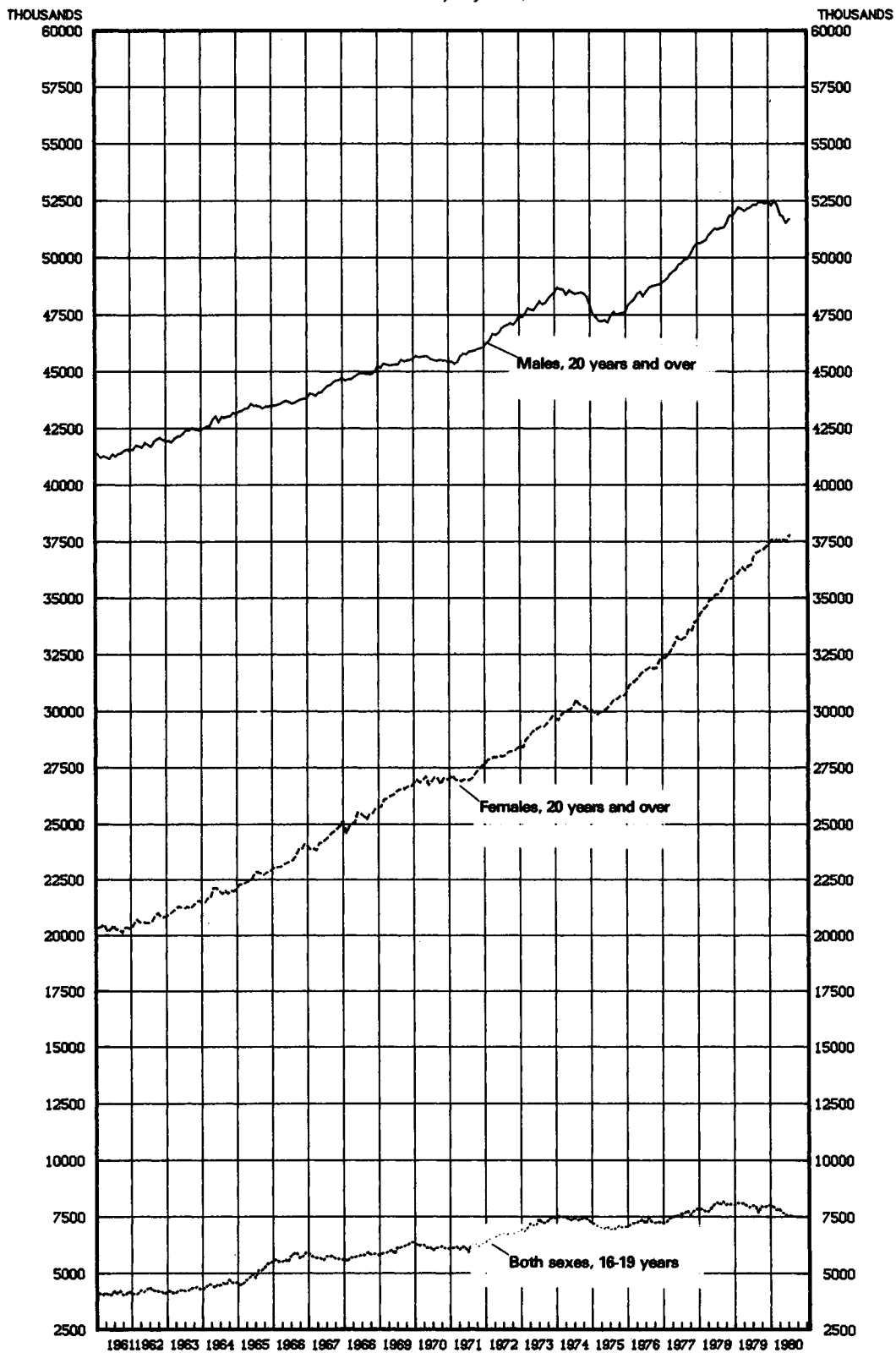


Chart 4. Total employment by sex and age

(Seasonally adjusted)



SOURCE: Table A-33.

Chart 5. Employment—population ratios by sex and age

(Seasonally adjusted)

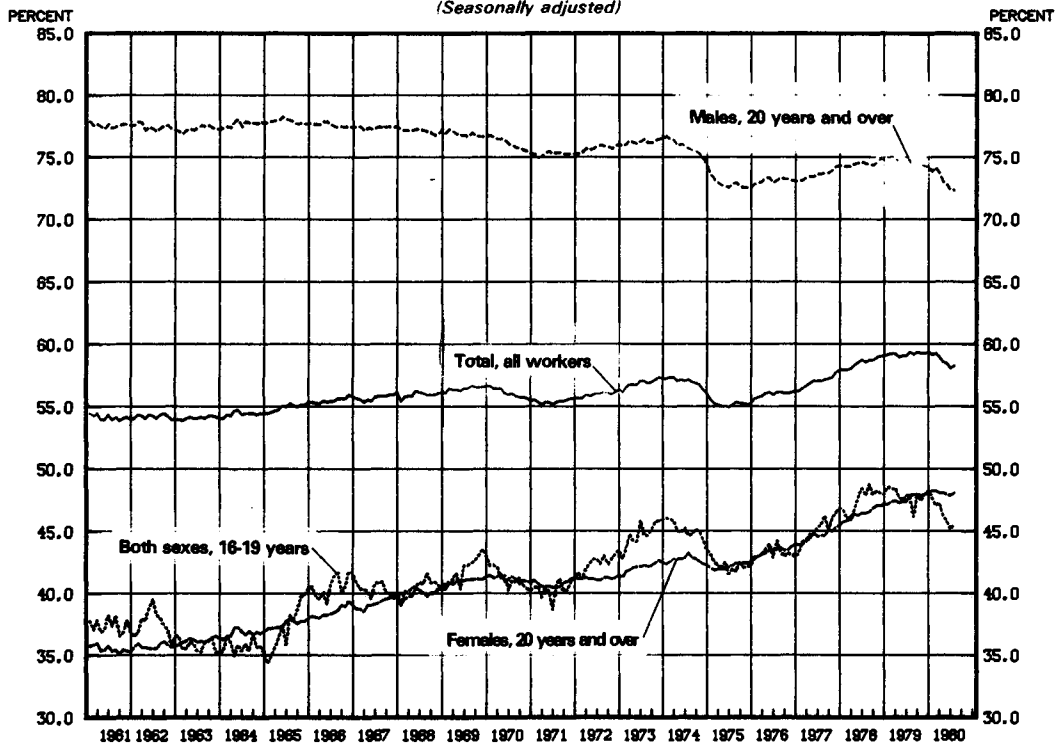


Chart 6. Payroll employment in goods and service-producing industries

(Seasonally adjusted)

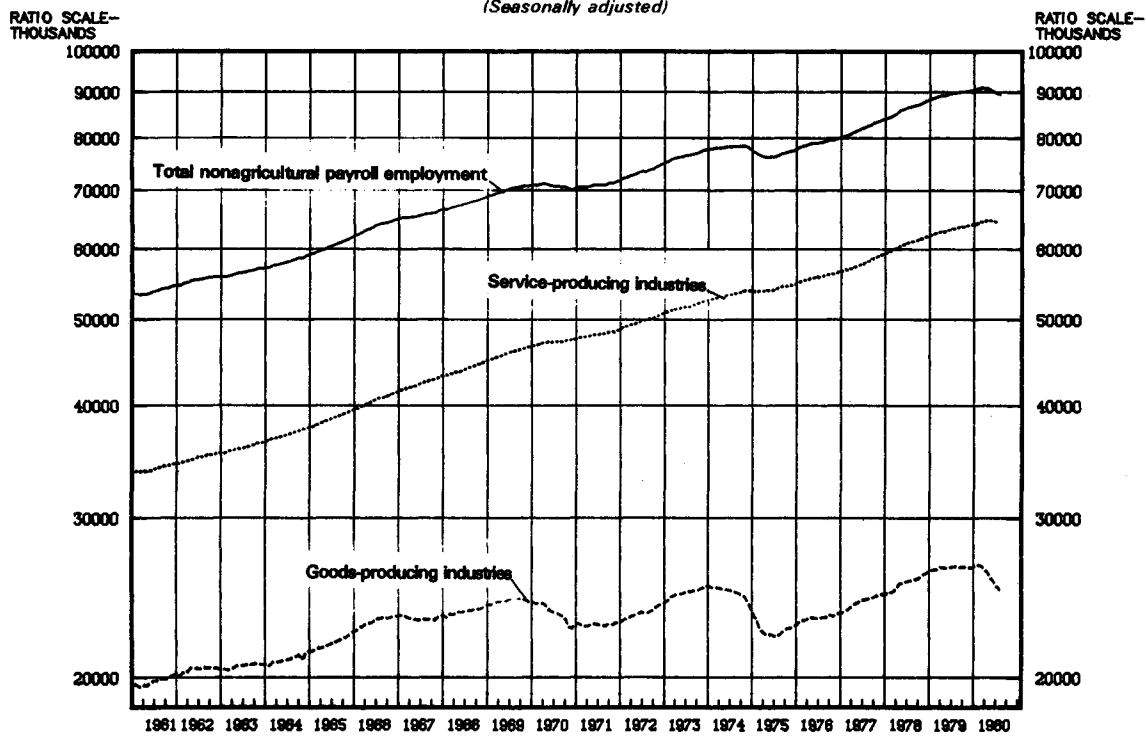
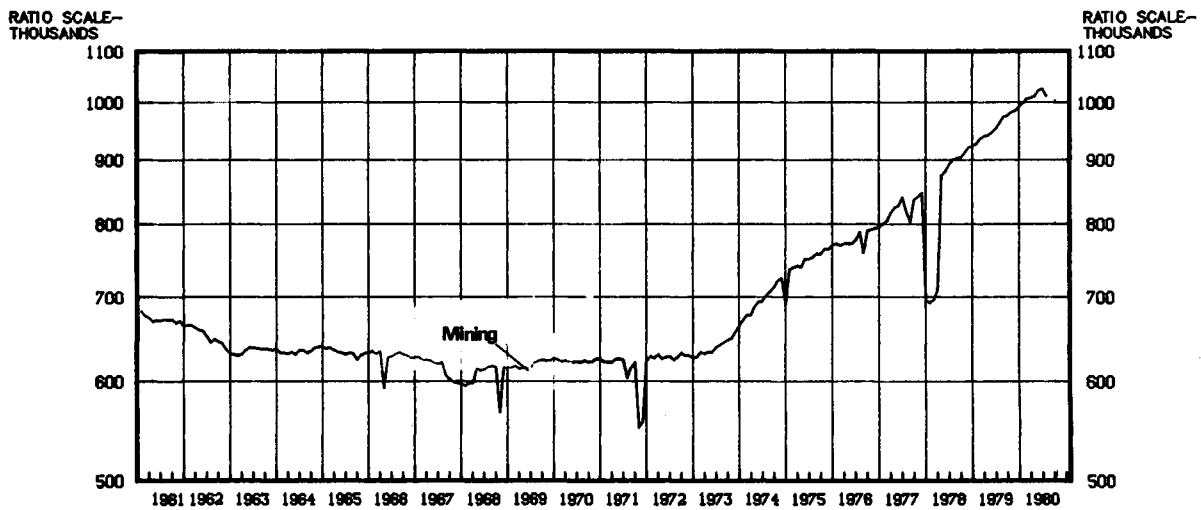
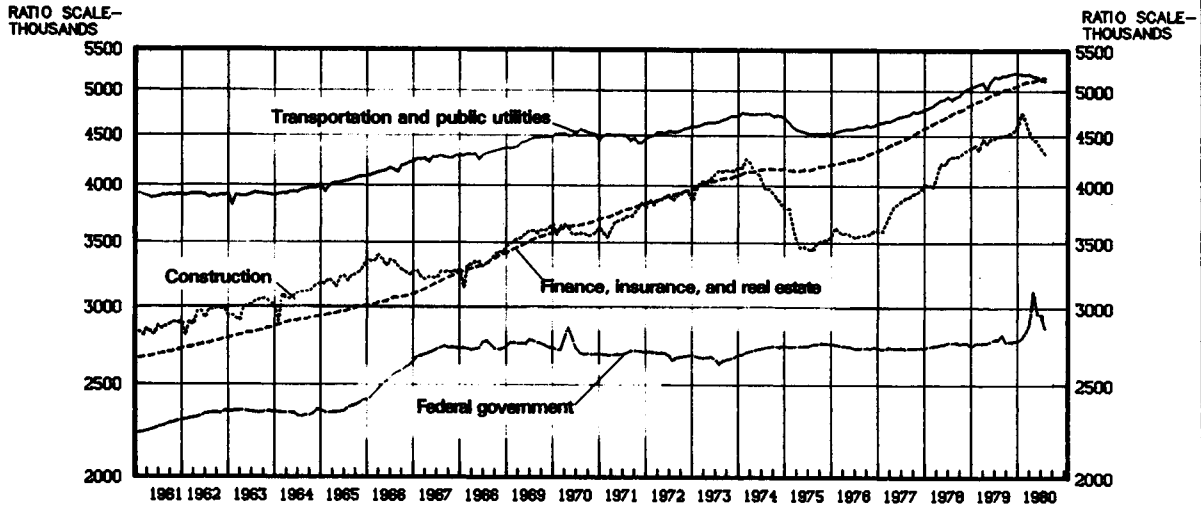
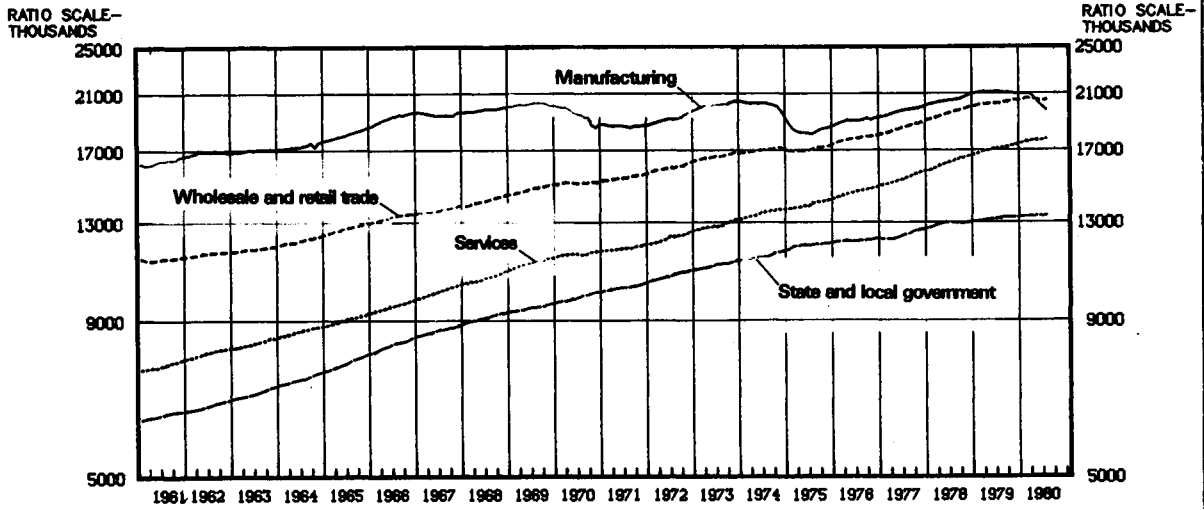


Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

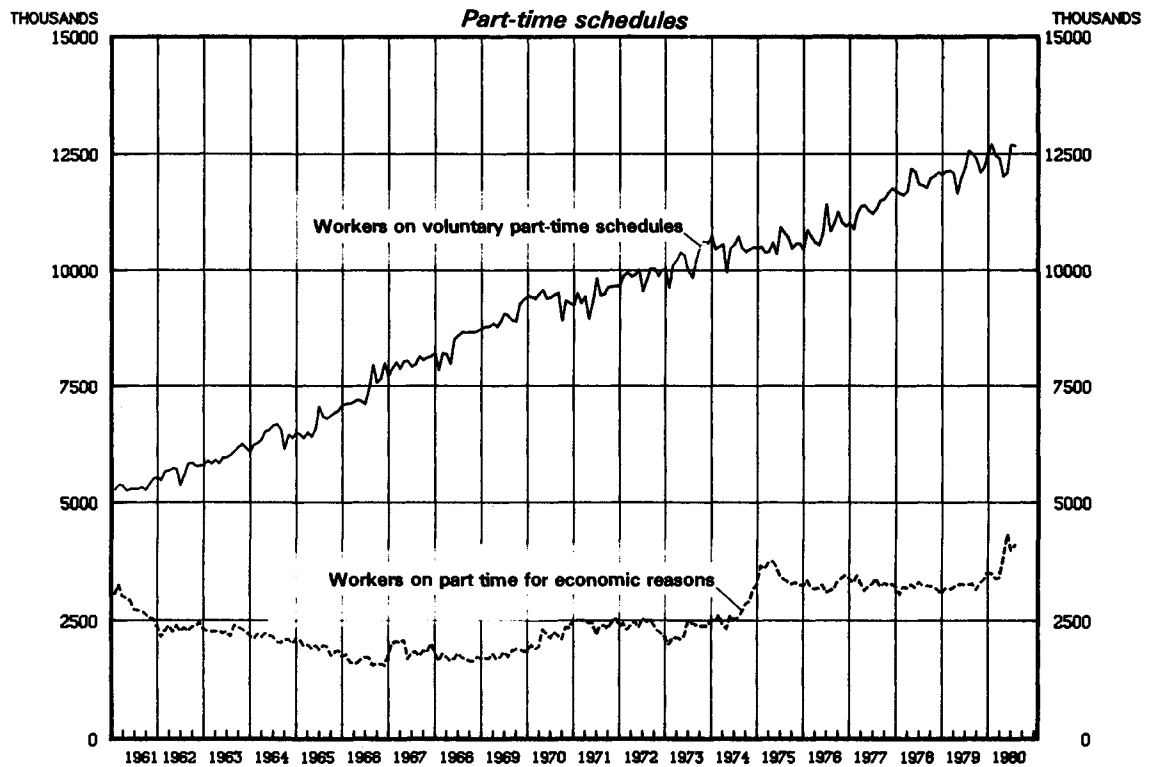
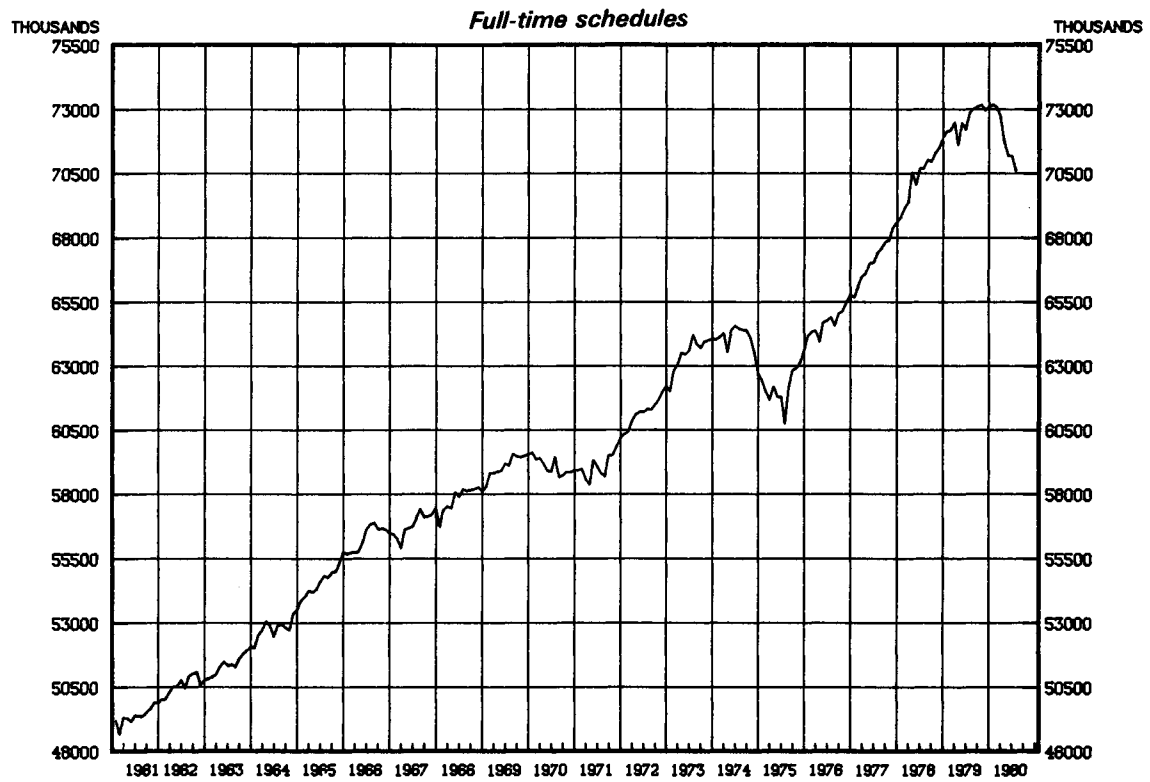


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

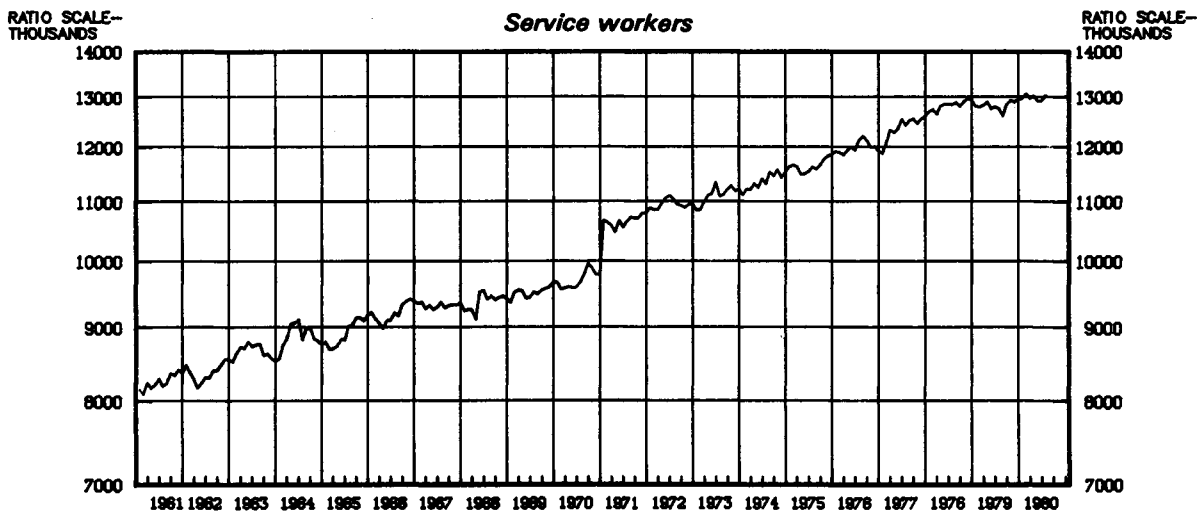
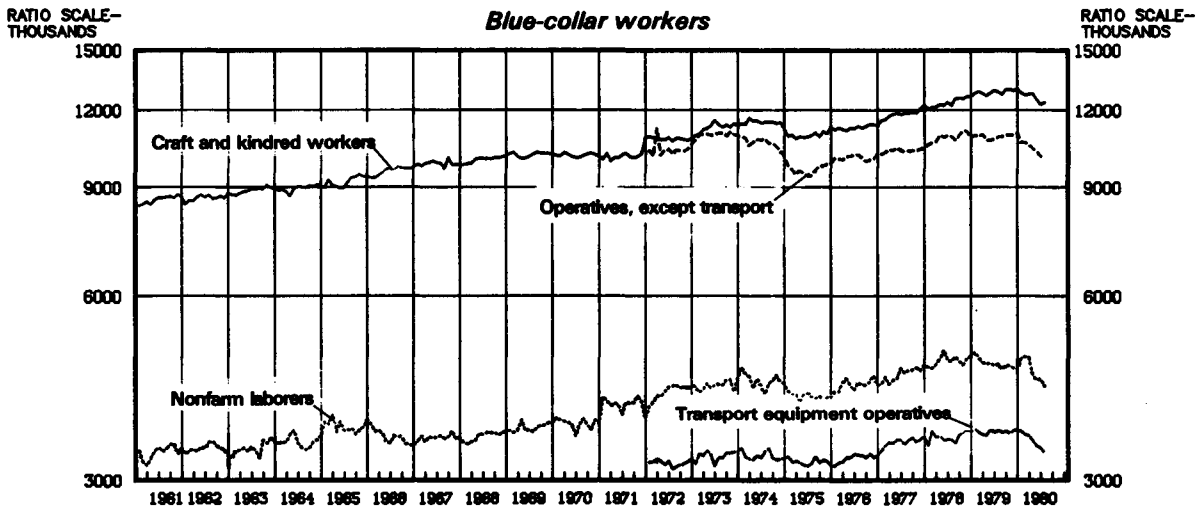
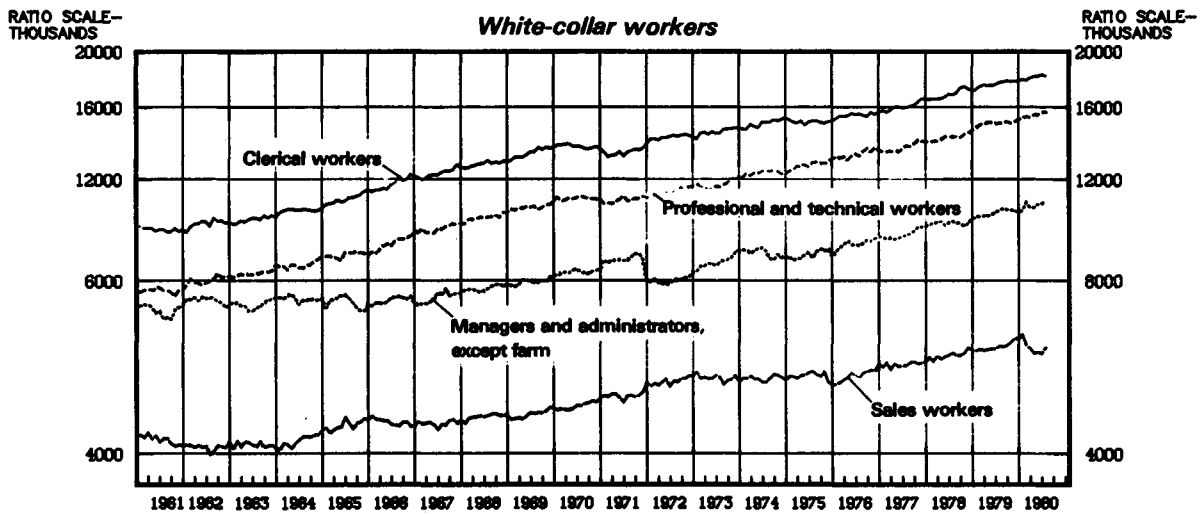
(Seasonally adjusted)



SOURCE: Table A-42.

Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)



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

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

(Seasonally adjusted)

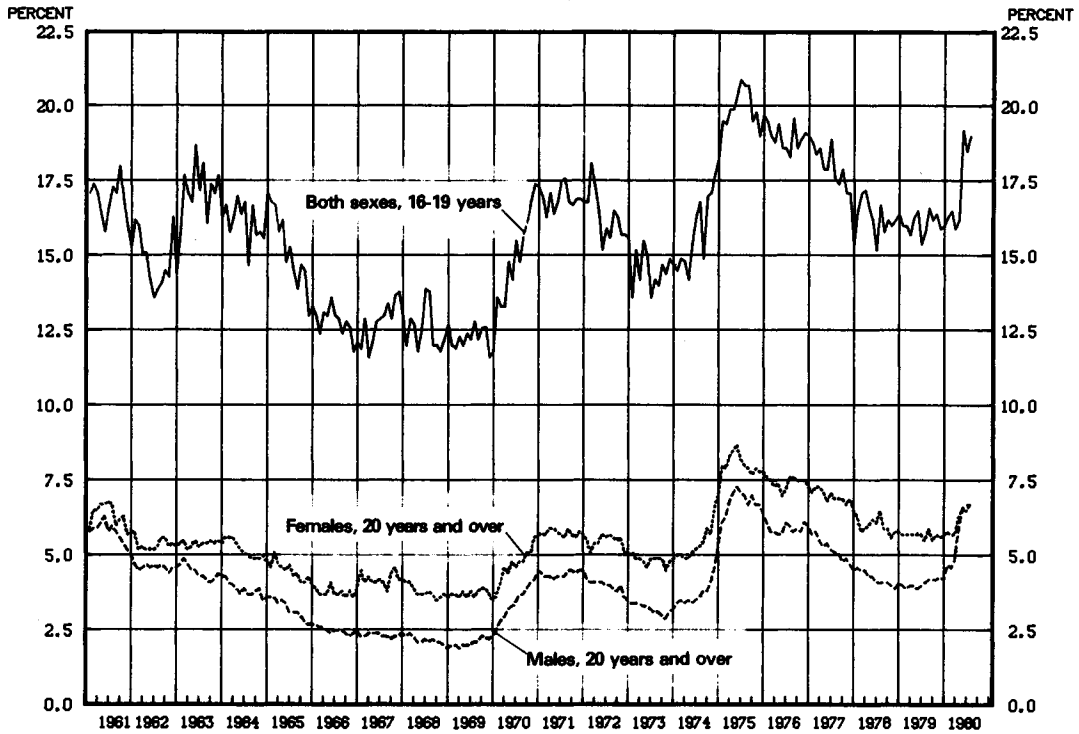
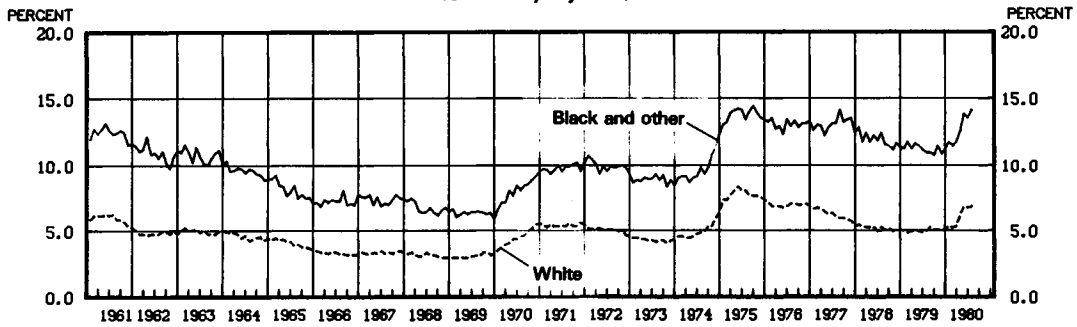
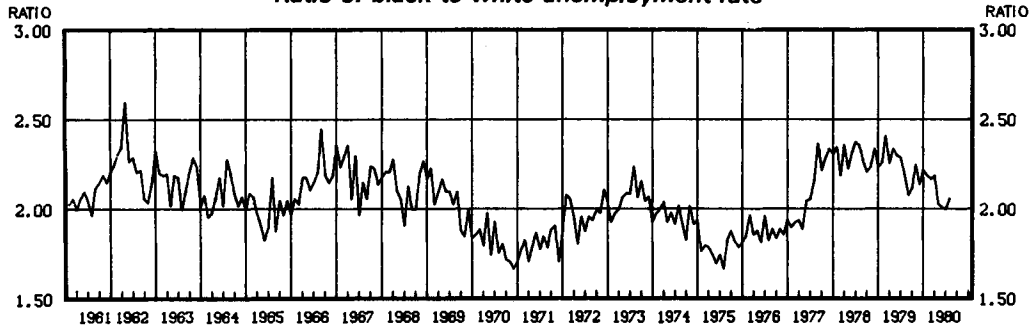


Chart 11. Unemployment rates by race

(Seasonally adjusted)

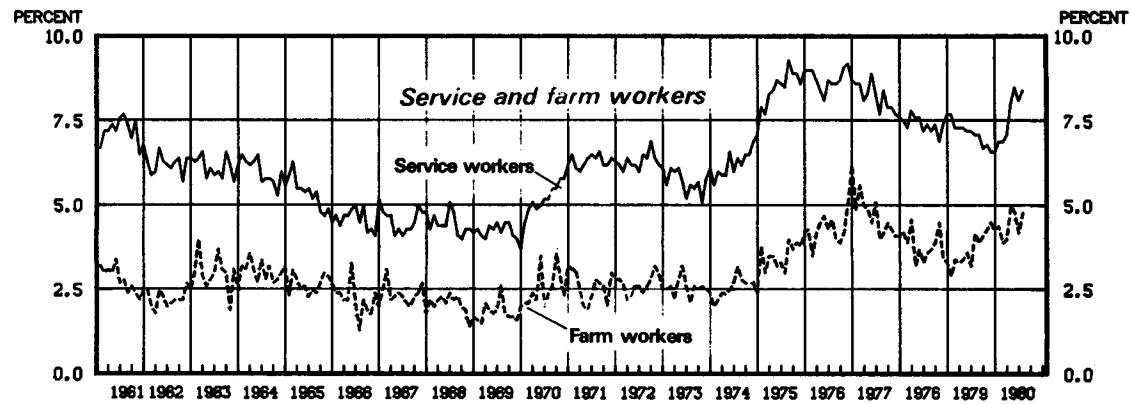
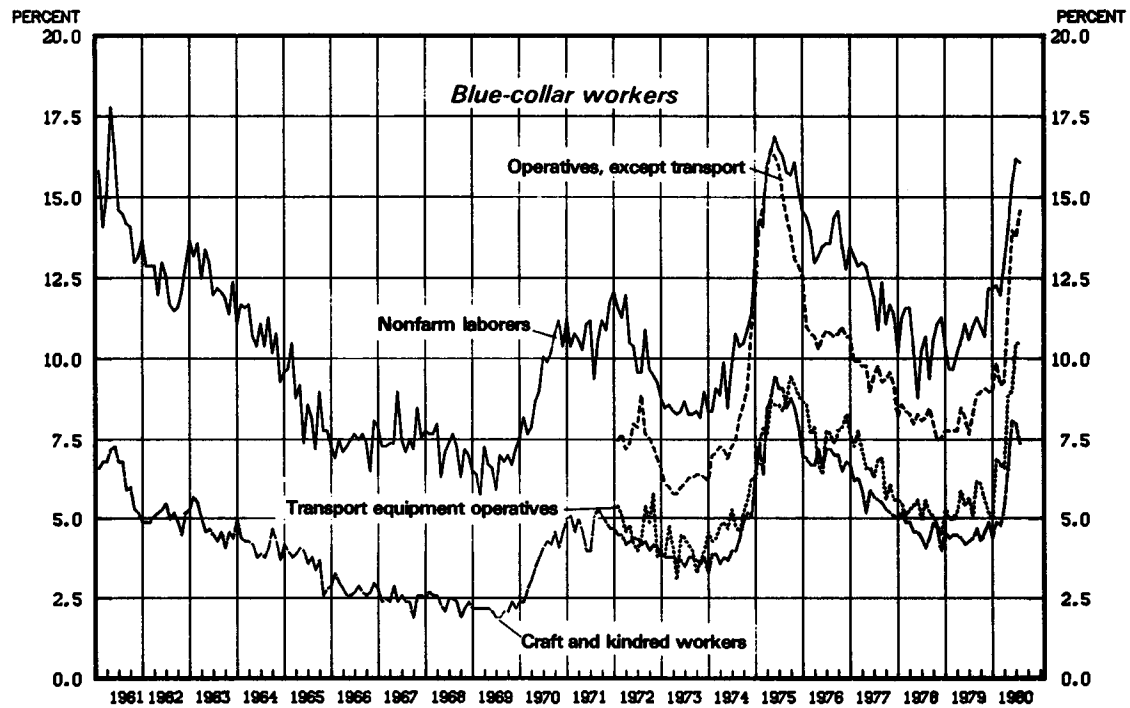
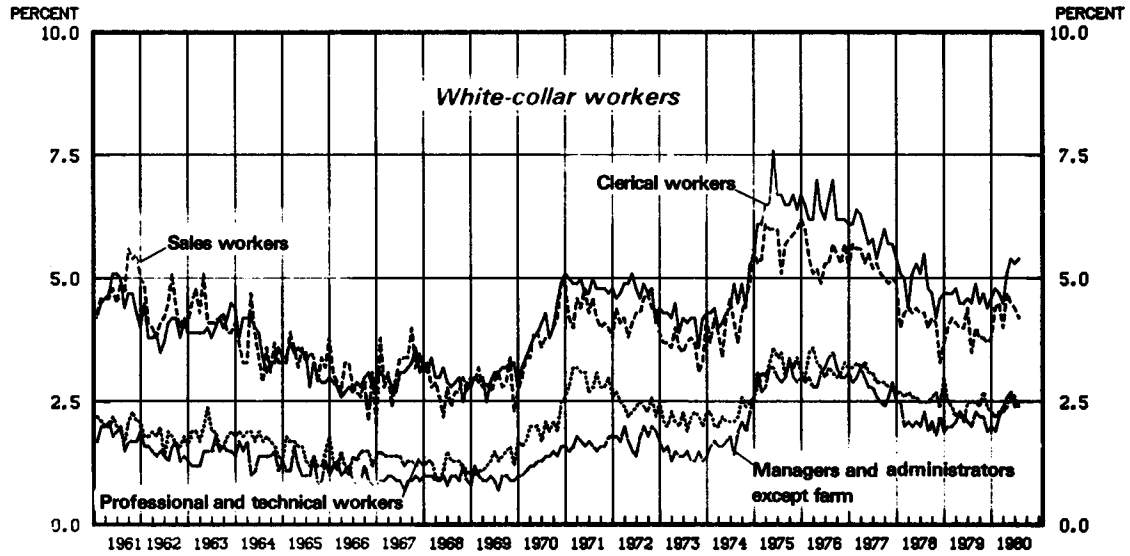


Ratio of black to white unemployment rate



SOURCE: Table A-36.

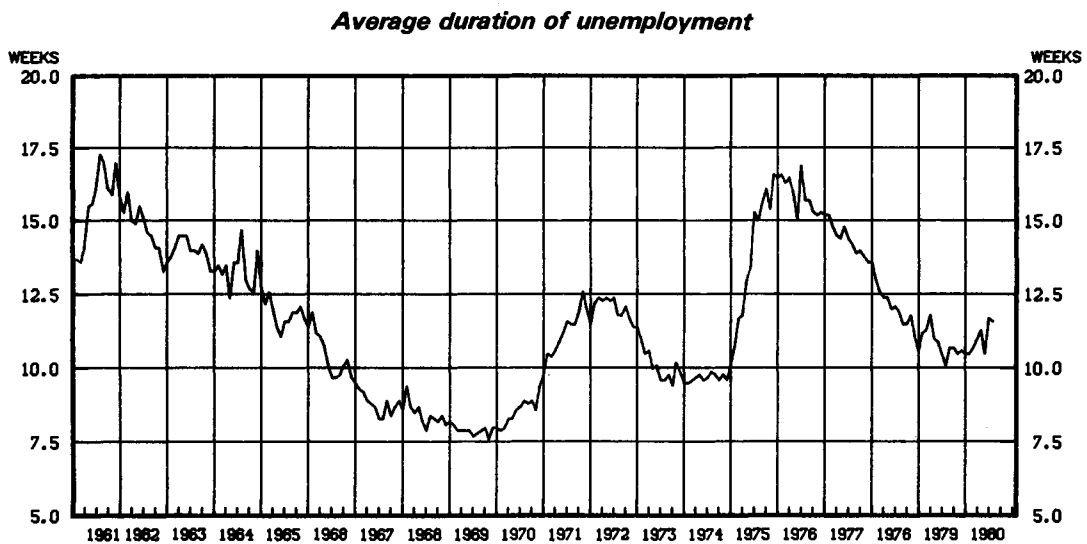
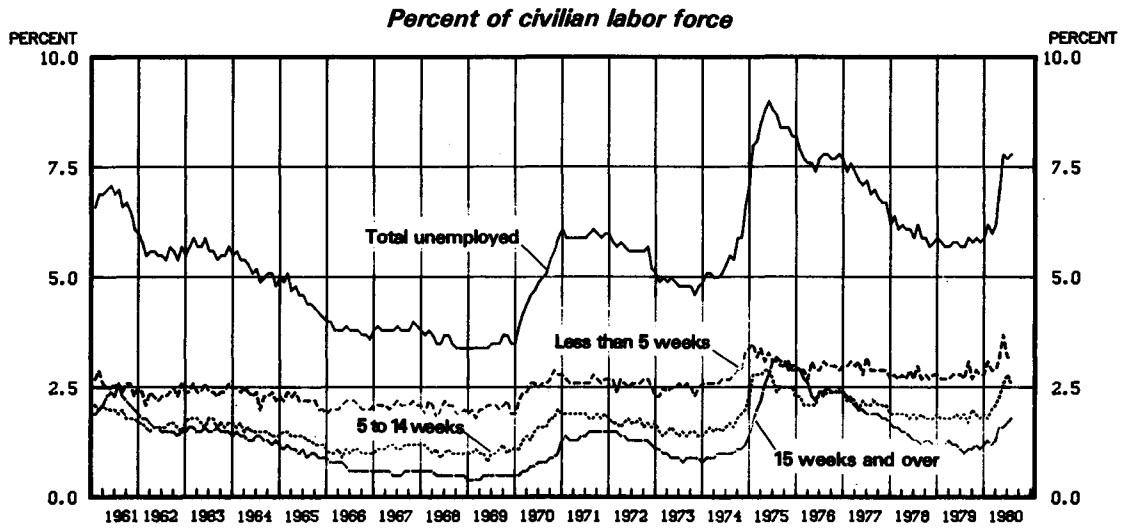
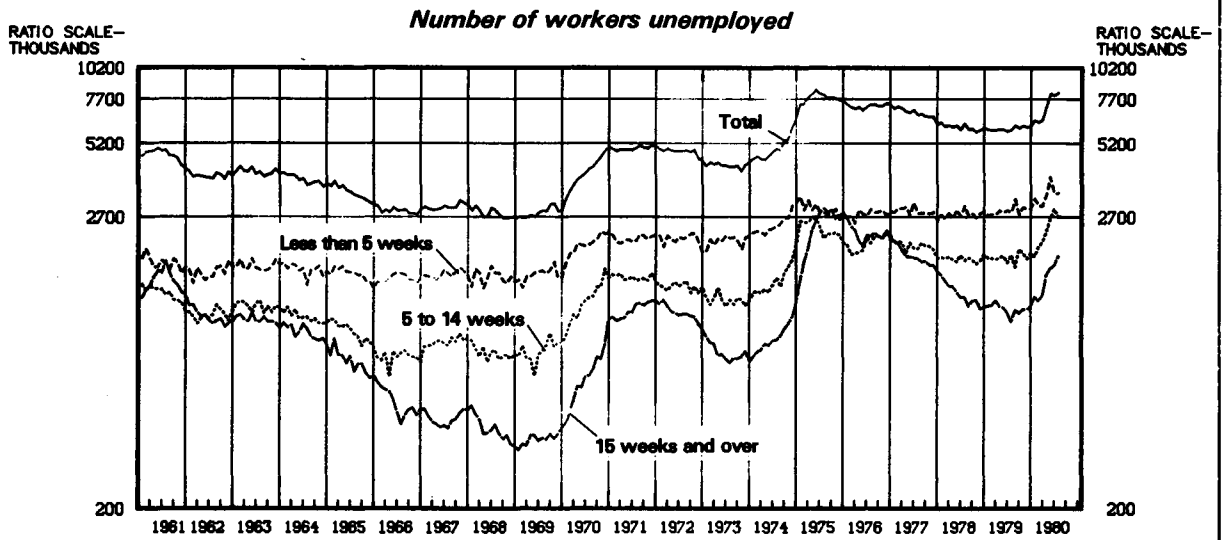
Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

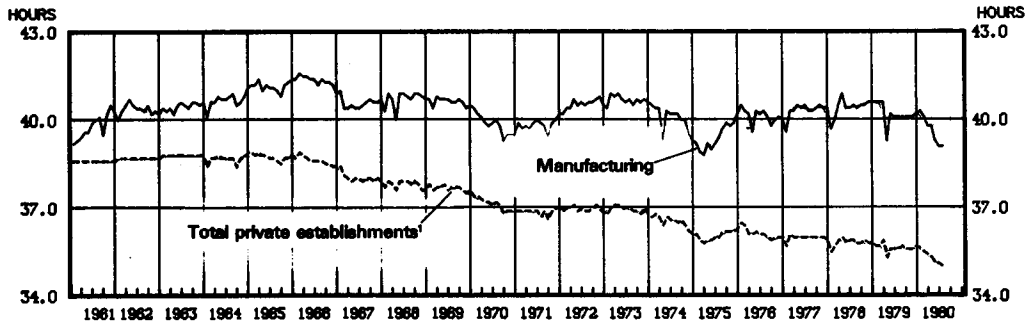
Chart 13. Duration of unemployment

(Seasonally adjusted)

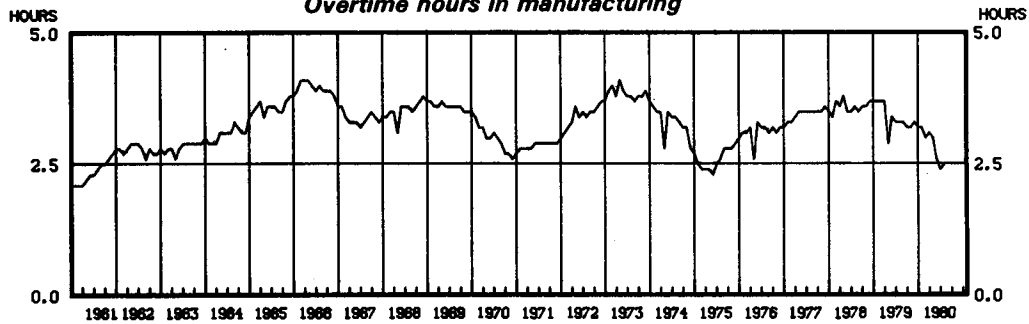


SOURCE: Table A-37.

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



Overtime hours in manufacturing

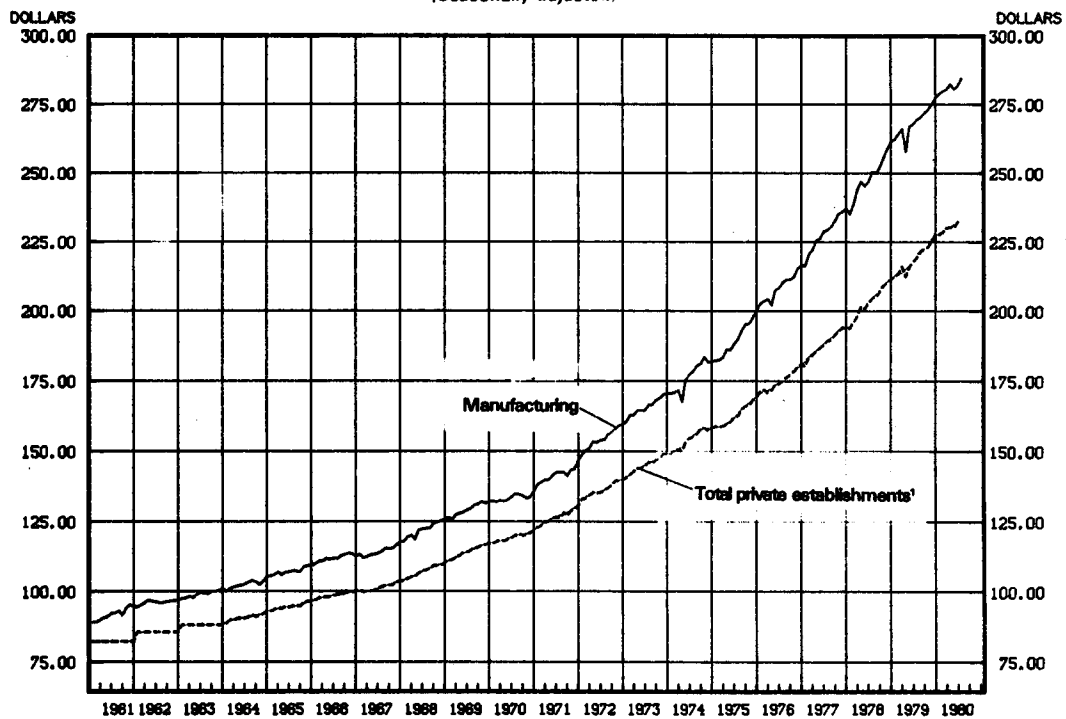


¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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



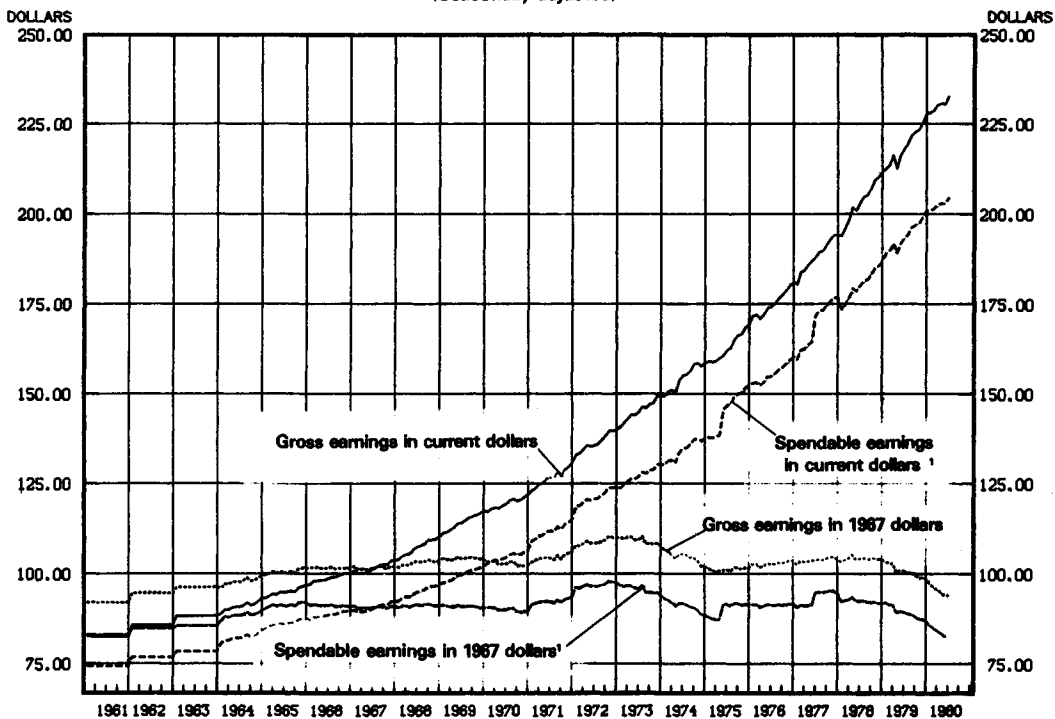
¹Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-9.

Chart 16. Total private gross and spendable weekly earnings

(Seasonally adjusted)



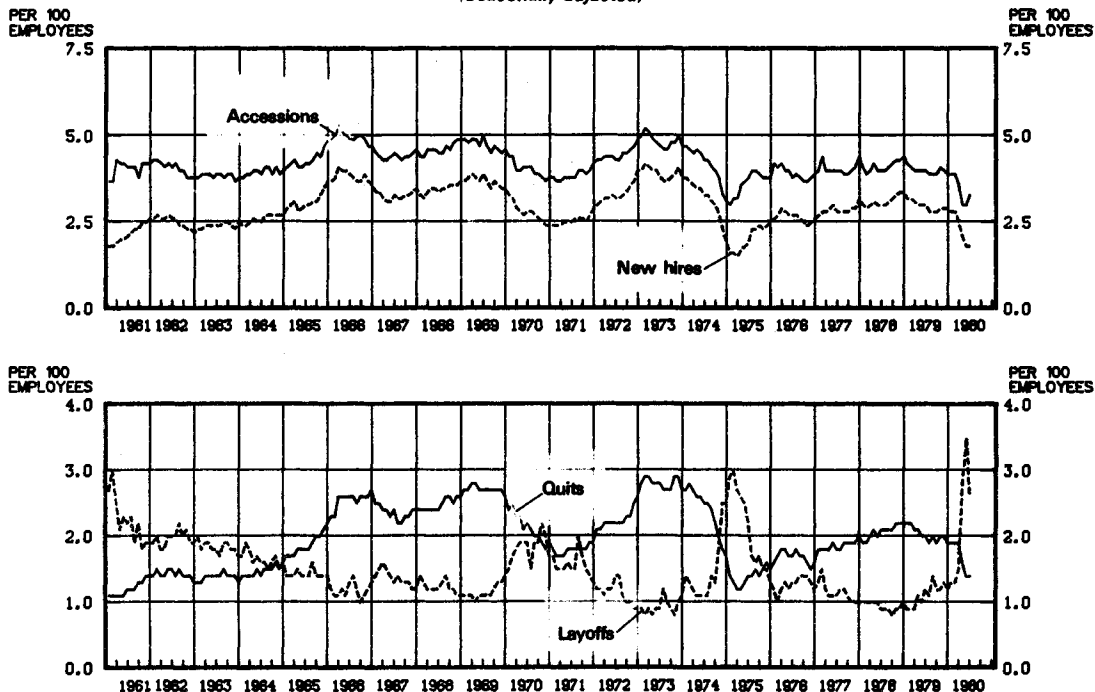
¹ Married worker with three dependents.

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	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,058	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953 ¹	110,601	66,560	60.2	63,015	61,179	6,240	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 ¹	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962.....	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,162	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.....	150,327	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 ¹	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
1979.....	163,620	104,996	64.2	102,908	96,945	3,297	93,648	5,963	5.8	58,623
Monthly data, seasonally adjusted²										
1979:										
July.....	163,685	105,175	64.3	103,093	97,184	3,267	93,917	5,909	5.7	58,511
August....	163,891	105,218	64.2	103,128	97,004	3,315	93,689	6,124	5.9	58,673
September	164,106	105,586	64.3	103,494	97,504	3,364	94,140	5,990	5.8	58,519
October...	164,468	105,688	64.3	103,595	97,474	3,294	94,180	6,121	5.9	58,780
November..	164,682	105,744	64.2	103,652	97,608	3,385	94,223	6,044	5.8	58,937
December..	164,898	106,038	64.3	103,999	97,912	3,359	94,553	6,087	5.9	58,810
1980:										
January...	165,101	106,310	64.4	104,229	97,804	3,270	94,534	6,425	6.2	58,791
February..	165,298	106,346	64.3	104,260	97,953	3,326	94,626	6,307	6.0	58,951
March.....	165,306	106,184	64.2	104,094	97,656	3,358	94,298	6,438	6.2	59,322
April.....	165,493	106,511	64.3	104,419	97,154	3,242	93,912	7,265	7.0	59,182
May.....	165,886	107,230	64.6	105,142	96,988	3,379	93,609	8,154	7.8	58,657
June.....	166,105	106,634	64.2	104,542	96,537	3,191	93,346	8,006	7.7	59,471
July.....	166,391	107,302	64.5	105,203	96,996	3,257	93,739	8,207	7.8	59,091

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

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

HOUSEHOLD DATA HISTORICAL

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1972 to date

(Numbers in thousands)

Sex, year, and month	Total noninsti- tutional popula- tion	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of popula- tion	Total	Employed			Unemployed		
					Total	Agric- ulture	Nonagri- cultural indus- tries	Number	Percent of labor force	
MALES										
<i>Annual averages</i>										
1972 ¹	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,253	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,397	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978.....	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979.....	78,397	61,466	78.4	59,517	56,499	2,645	53,854	3,018	5.1	16,931
<i>Monthly data, seasonally adjusted²</i>										
1979:										
July.....	78,427	61,540	78.5	59,597	56,570	2,614	53,956	3,027	5.1	16,887
August...	78,525	61,437	78.2	59,491	56,408	2,650	53,758	3,083	5.2	17,088
September	78,627	61,759	78.5	59,812	56,714	2,677	54,037	3,098	5.2	16,867
October..	78,805	61,675	78.3	59,727	56,629	2,666	53,963	3,098	5.2	17,130
November.	78,906	61,652	78.1	59,704	56,580	2,716	53,864	3,124	5.2	17,255
December.	79,009	61,762	78.2	59,823	56,734	2,714	54,020	3,089	5.2	17,247
1980:										
January..	79,104	61,810	78.1	59,878	56,486	2,665	53,821	3,392	5.7	17,295
February.	79,196	61,951	78.2	60,014	56,732	2,702	54,029	3,283	5.5	17,245
March....	79,295	61,976	78.2	60,042	56,601	2,706	53,895	3,441	5.7	17,319
April....	79,382	61,972	78.1	60,037	55,998	2,602	53,396	4,040	6.7	17,410
May.....	79,472	62,410	78.5	60,479	55,823	2,671	53,152	4,656	7.7	17,062
June.....	79,575	62,062	78.0	60,127	55,457	2,572	52,886	4,669	7.8	17,514
July.....	79,710	62,270	78.1	60,333	55,629	2,626	53,003	4,703	7.8	17,440
FEMALES										
<i>Annual averages</i>										
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
1978 ¹	83,890	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
1979.....	85,223	43,531	51.1	43,391	40,446	652	39,794	2,945	6.8	41,692
<i>Monthly data, seasonally adjusted²</i>										
1979:										
July.....	85,259	43,635	51.2	43,496	40,614	653	39,961	2,882	6.6	41,624
August...	85,366	43,782	51.3	43,637	40,596	665	39,931	3,041	7.0	41,585
September	85,479	43,827	51.3	43,682	40,790	687	40,103	2,892	6.6	41,652
October..	85,663	44,013	51.4	43,868	40,845	628	40,217	3,023	6.9	41,651
November.	85,775	44,093	51.4	43,948	41,028	669	40,359	2,920	6.6	41,683
December.	85,889	44,326	51.6	44,176	41,178	645	40,533	2,998	6.8	41,563
1980:										
January..	85,997	44,501	51.7	44,352	41,318	605	40,713	3,034	6.8	41,495
February.	86,102	44,396	51.6	44,246	41,221	624	40,597	3,025	6.8	41,706
March....	86,211	44,209	51.3	44,052	41,054	651	40,403	2,997	6.8	42,002
April....	86,311	44,538	51.6	44,381	41,156	640	40,516	3,225	7.3	41,773
May.....	86,414	44,819	51.9	44,663	41,165	708	40,457	3,498	7.8	41,595
June.....	86,530	44,573	51.5	44,416	41,079	619	40,460	3,337	7.5	41,957
July.....	86,681	45,031	51.9	44,870	41,367	631	40,736	3,503	7.8	41,650

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

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

HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	July 1980										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	64,033	80.3	62,096	57,363	4,732	7.6	15,677	344	899	1,482	12,951
16 to 21 years	10,383	81.9	9,741	8,093	1,648	16.9	2,288	40	487	24	1,737
16 to 19 years	6,540	78.0	6,265	5,117	1,148	18.3	1,844	29	310	16	1,488
16 to 17 years	2,848	69.2	2,830	2,280	551	19.5	1,267	18	161	7	1,081
18 to 19 years	3,692	86.5	3,435	2,837	597	17.4	577	11	149	10	407
20 to 64 years	55,645	90.5	53,983	50,466	3,518	6.5	5,836	165	589	1,052	4,017
20 to 24 years	9,485	91.4	8,750	7,637	1,113	12.7	889	17	367	30	475
25 to 54 years	38,037	94.6	38,037	35,878	2,159	5.7	2,230	83	218	561	1,367
25 to 29 years	8,846	95.1	8,485	7,706	778	9.2	459	8	135	43	273
30 to 34 years	8,186	96.6	7,932	7,464	468	5.9	289	13	29	59	188
35 to 39 years	6,573	96.3	6,386	6,104	282	4.4	249	13	18	71	147
40 to 44 years	5,369	95.1	5,283	5,041	242	4.6	277	8	12	102	155
45 to 49 years	4,982	93.2	4,952	4,734	218	4.4	361	18	13	108	222
50 to 54 years	5,006	89.4	4,999	4,828	170	3.4	594	23	11	177	383
55 to 64 years	7,198	72.6	7,197	6,951	246	3.4	2,717	65	6	471	2,175
55 to 59 years	4,392	81.7	4,391	4,231	160	3.6	982	31	6	243	702
60 to 64 years	2,806	61.8	2,806	2,720	86	3.1	1,735	34	--	228	1,473
65 years and over	1,848	18.8	1,848	1,781	67	3.6	7,997	150	--	404	7,445
65 to 69 years	1,050	27.5	1,050	1,008	42	4.0	2,772	35	--	142	2,595
70 years and over	798	13.2	798	773	25	3.1	5,225	115	--	262	4,850
White											
16 years and over	56,704	80.9	55,204	51,520	3,684	6.7	13,348	255	683	1,181	11,230
16 to 21 years	8,993	83.8	8,511	7,253	1,257	14.8	1,735	21	358	25	1,331
16 to 19 years	5,672	80.2	5,463	4,589	874	16.0	1,403	17	218	16	1,151
16 to 17 years	2,470	71.6	2,455	2,035	420	17.1	982	10	107	7	856
18 to 19 years	3,202	88.4	3,008	2,554	453	15.1	421	7	111	10	293
20 to 64 years	49,345	91.2	48,055	45,303	2,753	5.7	4,776	117	465	847	3,346
20 to 24 years	8,207	92.3	7,660	6,795	865	11.3	686	10	298	24	354
25 to 54 years	34,558	95.3	33,815	32,134	1,681	5.0	1,720	50	165	434	1,065
25 to 29 years	14,995	96.3	14,512	13,554	959	6.6	568	16	134	81	338
30 to 34 years	10,627	96.4	10,399	9,995	404	3.9	400	17	20	129	233
45 to 54 years	8,936	92.2	8,904	8,586	318	3.6	752	23	12	224	494
55 to 64 years	6,501	73.5	6,500	6,374	206	3.1	2,371	52	3	389	1,926
55 to 59 years	4,017	82.9	4,016	3,885	131	3.3	826	24	3	203	596
60 to 64 years	2,564	62.4	2,564	2,489	76	3.0	1,545	28	--	186	1,331
65 years and over	1,686	19.0	1,686	1,628	57	3.4	7,169	120	--	318	6,733
Black and other											
16 years and over	7,329	75.9	6,892	5,843	1,049	15.2	2,329	90	217	301	1,721
16 to 21 years	1,390	71.5	1,230	840	390	31.7	553	18	130	--	406
16 to 19 years	868	66.3	802	528	274	34.2	441	12	92	--	337
16 to 17 years	378	57.0	375	245	130	34.7	285	8	54	--	223
18 to 19 years	490	75.8	427	283	144	33.7	156	4	38	--	114
20 to 64 years	6,299	85.6	5,928	5,162	766	12.9	1,060	48	125	215	671
20 to 24 years	1,279	86.3	1,090	842	248	22.7	203	7	69	6	120
25 to 54 years	4,404	89.6	4,221	3,743	478	11.3	510	27	53	127	301
25 to 29 years	2,038	91.9	1,905	1,617	288	15.1	180	5	31	22	122
30 to 34 years	1,315	91.2	1,269	1,150	119	9.4	127	4	10	44	68
45 to 54 years	1,051	83.8	1,047	977	70	6.7	203	18	12	61	111
55 to 64 years	617	64.0	617	577	40	6.5	347	13	3	82	249
55 to 59 years	375	70.6	375	346	29	7.8	156	7	3	40	107
60 to 64 years	242	55.9	242	231	11	4.3	191	6	--	42	142
65 years and over	162	16.4	162	153	9	5.9	828	30	--	86	713

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

(Numbers in thousands)

Sex, age, and race	July 1980										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	45,062	52.0	44,901	41,224	3,677	8.2	41,619	32,582	1,069	1,035	6,933
16 to 21 years	8,411	67.8	8,348	7,023	1,325	15.9	3,990	1,572	613	16	1,789
16 to 19 years	5,327	65.1	5,298	4,342	956	18.0	2,861	856	423	8	1,574
16 to 17 years	2,296	57.7	2,295	1,815	479	20.9	1,682	342	191	5	1,144
18 to 19 years	3,031	72.0	3,004	2,527	476	15.9	1,180	514	233	3	430
20 to 64 years	38,628	60.0	38,494	35,807	2,687	7.0	25,801	21,971	638	473	2,718
20 to 24 years	7,452	71.9	7,373	6,536	838	11.4	2,912	2,110	335	24	443
25 to 64 years	26,703	62.1	26,648	24,920	1,728	6.5	16,278	14,275	301	242	1,461
25 to 29 years	6,171	65.1	6,133	5,600	533	8.7	3,313	2,858	140	19	295
30 to 34 years	5,396	62.0	5,385	5,010	375	7.0	3,301	2,918	72	33	278
35 to 39 years	4,489	62.6	4,486	4,212	274	6.1	2,681	2,349	39	19	273
40 to 44 years	3,877	64.7	3,875	3,659	216	5.6	2,119	1,888	17	31	183
45 to 49 years	3,390	60.2	3,389	3,213	176	5.2	2,245	1,969	26	62	187
50 to 54 years	3,380	56.3	3,380	3,225	154	4.6	2,620	2,293	6	77	244
55 to 64 years	4,473	40.4	4,473	4,351	122	2.7	6,610	5,587	2	207	814
55 to 59 years	2,790	47.2	2,790	2,705	85	3.0	3,122	2,679	--	99	344
60 to 64 years	1,683	32.5	1,683	1,646	37	2.2	3,488	2,908	2	108	470
65 years and over	1,108	7.9	1,108	1,074	34	3.0	12,957	9,755	8	553	2,641
65 to 69 years	720	15.1	720	697	24	3.3	4,046	3,229	2	100	715
70 years and over	388	4.2	388	378	10	2.6	8,910	6,526	6	453	1,925
White											
16 years and over	38,736	51.4	38,617	35,879	2,738	7.1	36,600	29,137	752	788	5,923
16 to 21 years	7,300	70.1	7,254	6,305	949	13.1	3,113	1,245	421	9	1,438
16 to 19 years	4,644	67.7	4,624	3,922	702	15.2	2,219	684	270	3	1,262
16 to 17 years	2,002	60.3	2,001	1,641	360	18.0	1,319	268	121	3	926
18 to 19 years	2,642	74.6	2,623	2,281	342	13.1	901	416	149	--	336
20 to 64 years	33,121	59.4	33,022	31,007	2,015	6.1	22,620	19,466	475	353	2,327
20 to 24 years	6,399	73.2	6,340	5,760	580	9.1	2,345	1,719	243	21	362
25 to 64 years	22,761	61.4	22,719	21,378	1,341	5.9	14,301	12,631	229	178	1,263
25 to 29 years	9,727	62.6	9,690	9,014	676	7.0	5,803	5,110	162	41	489
30 to 34 years	7,170	63.1	7,166	6,769	397	5.5	4,201	3,727	45	31	399
35 to 44 years	5,864	57.7	5,863	5,595	268	4.6	4,297	3,793	22	106	375
55 to 64 years	3,963	39.9	3,963	3,868	94	2.4	5,974	5,116	2	154	703
55 to 59 years	2,465	46.6	2,465	2,401	64	2.6	2,823	2,449	--	82	292
60 to 64 years	1,498	32.2	1,498	1,467	30	2.0	3,151	2,667	2	72	411
65 years and over	971	7.6	971	950	21	2.2	11,761	8,987	7	433	2,334
Black and other											
16 years and over	6,326	55.8	6,283	5,344	939	14.9	5,019	3,446	318	246	1,010
16 to 21 years	1,111	55.9	1,094	717	376	34.4	877	328	192	7	351
16 to 19 years	682	51.5	674	420	254	37.7	642	172	153	5	312
16 to 17 years	294	44.7	294	174	120	40.8	363	74	69	2	218
18 to 19 years	388	58.2	380	246	134	35.3	279	98	84	3	94
20 to 64 years	5,506	63.4	5,472	4,800	672	12.3	3,181	2,506	163	121	391
20 to 24 years	1,054	65.0	1,033	775	258	25.0	567	391	92	4	82
25 to 64 years	3,942	66.6	3,929	3,542	387	9.8	1,978	1,643	72	63	198
25 to 29 years	1,840	69.4	1,827	1,595	232	12.7	811	666	50	11	84
30 to 34 years	1,196	66.6	1,195	1,102	93	7.8	599	509	12	19	58
35 to 44 years	906	61.5	906	844	62	6.8	568	469	10	33	56
55 to 64 years	510	44.5	510	483	28	5.4	636	471	--	53	112
55 to 59 years	325	52.1	325	304	21	6.4	299	231	--	17	52
60 to 64 years	185	35.5	185	178	7	3.8	337	241	--	36	59
65 years and over	137	10.3	137	124	13	9.3	1,196	768	1	120	307

HOUSEHOLD DATA

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
MALES								
18 years and over	63,365	64,033	80.8	80.3	61,422	62,096	80.3	79.8
16 to 19 years	6,588	6,540	78.1	78.0	6,322	6,265	77.4	77.3
16 to 17 years	2,857	2,848	68.6	69.2	2,844	2,830	68.5	69.1
18 to 19 years	3,731	3,692	87.5	86.5	3,478	3,435	86.7	85.6
20 to 24 years	9,509	9,485	92.6	91.4	8,763	8,750	92.1	90.8
25 to 54 years	38,213	38,962	94.8	94.6	37,285	38,037	94.6	94.5
25 to 34 years	16,474	17,032	95.9	95.8	15,863	16,417	95.8	95.6
35 to 44 years	11,643	11,942	96.0	95.8	11,364	11,669	95.9	95.7
45 to 54 years	10,095	9,988	91.6	91.3	10,058	9,951	91.6	91.2
55 to 64 years	7,139	7,198	72.9	72.6	7,138	7,197	72.9	72.6
55 to 59 years	4,414	4,392	82.3	81.7	4,413	4,391	82.3	81.7
60 to 64 years	2,725	2,806	61.6	61.8	2,725	2,806	61.6	61.8
65 years and over	1,916	1,848	19.9	18.8	1,916	1,848	19.9	18.8
White								
16 years and over	56,196	56,704	81.4	80.9	54,661	55,204	81.0	80.5
16 to 19 years	5,763	5,672	80.7	80.2	5,558	5,463	80.2	79.6
16 to 17 years	2,518	2,470	71.9	71.6	2,507	2,455	71.7	71.4
18 to 19 years	3,245	3,202	89.4	88.4	3,051	3,008	88.8	87.7
20 to 24 years	8,281	8,207	93.9	92.3	7,711	7,660	93.4	91.8
25 to 54 years	33,919	34,558	95.3	95.3	33,161	33,815	95.2	95.2
25 to 34 years	14,542	14,995	96.5	96.3	14,053	14,512	96.4	96.2
35 to 44 years	10,355	10,627	96.5	96.4	10,120	10,399	96.4	96.3
45 to 54 years	9,022	8,936	92.3	92.2	8,989	8,904	92.2	92.2
55 to 64 years	6,511	6,581	73.6	73.5	6,510	6,580	73.6	73.5
55 to 59 years	4,009	4,017	82.9	82.9	4,008	4,016	82.9	82.9
60 to 64 years	2,502	2,564	62.3	62.4	2,502	2,564	62.3	62.4
65 years and over	1,721	1,686	19.9	19.0	1,721	1,686	19.9	19.0
Black and other								
16 years and over	7,169	7,329	76.5	75.9	6,762	6,892	75.4	74.7
16 to 19 years	825	868	63.8	66.3	764	802	62.0	64.5
16 to 17 years	339	378	51.5	57.0	337	375	51.4	56.8
18 to 19 years	486	490	76.5	75.8	427	427	74.1	73.2
20 to 24 years	1,228	1,279	85.1	86.3	1,052	1,090	83.1	84.3
25 to 54 years	4,293	4,404	90.6	89.6	4,122	4,221	90.2	89.2
25 to 34 years	1,931	2,038	91.8	91.9	1,810	1,905	91.3	91.4
35 to 44 years	1,289	1,315	92.4	91.2	1,244	1,269	92.1	90.9
45 to 54 years	1,073	1,051	86.5	83.8	1,069	1,047	86.4	83.7
55 to 64 years	628	617	66.8	64.0	628	617	66.8	64.0
55 to 59 years	406	375	76.5	70.6	406	375	76.5	70.6
60 to 64 years	223	242	54.3	55.9	223	242	54.3	55.9
65 years and over	195	162	20.3	16.4	195	162	20.3	16.4

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	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
FEMALES								
16 years and over	43,712	45,062	51.3	52.0	43,573	44,901	51.2	51.9
16 to 19 years	5,381	5,327	65.3	65.1	5,358	5,298	65.2	64.9
16 to 17 years	2,333	2,296	57.9	57.7	2,333	2,295	57.8	57.7
18 to 19 years	3,048	3,031	72.4	72.0	3,026	3,004	72.2	71.8
20 to 24 years	7,329	7,452	71.5	71.9	7,259	7,373	71.3	71.7
25 to 54 years	25,515	26,703	60.6	62.1	25,469	26,648	60.6	62.1
25 to 34 years	10,949	11,567	62.4	63.6	10,907	11,518	62.3	63.5
35 to 44 years	7,879	8,366	61.6	63.5	7,875	8,361	61.6	63.5
45 to 54 years	6,687	6,770	56.9	58.2	6,686	6,769	56.9	58.2
55 to 64 years	4,418	4,473	40.4	40.4	4,418	4,473	40.4	40.4
55 to 59 years	2,781	2,790	47.2	47.2	2,781	2,790	47.2	47.2
60 to 64 years	1,637	1,683	32.5	32.5	1,637	1,683	32.5	32.5
65 years and over	1,069	1,108	7.8	7.9	1,069	1,108	7.8	7.9
White								
16 years and over	37,632	39,736	50.7	51.4	37,525	38,617	50.6	51.3
16 to 19 years	4,695	4,644	67.8	67.7	4,678	4,624	67.7	67.6
16 to 17 years	2,043	2,002	60.5	60.3	2,043	2,001	60.5	60.3
18 to 19 years	2,652	2,642	74.7	74.6	2,635	2,623	74.5	74.4
20 to 24 years	6,305	6,398	72.7	73.2	6,251	6,340	72.6	73.0
25 to 54 years	21,740	22,761	59.8	61.4	21,704	22,719	59.7	61.4
25 to 34 years	9,179	9,727	61.1	62.6	9,147	9,690	61.0	62.5
35 to 44 years	6,751	7,170	61.0	63.1	6,748	7,166	61.0	63.0
45 to 54 years	5,810	5,864	56.5	57.7	5,809	5,863	56.5	57.7
55 to 64 years	3,940	3,963	40.1	39.9	3,939	3,963	40.1	39.9
55 to 59 years	2,478	2,465	47.0	46.6	2,478	2,465	47.0	46.6
60 to 64 years	1,462	1,498	32.1	32.2	1,462	1,498	32.1	32.2
65 years and over	952	971	7.6	7.6	952	971	7.6	7.6
Black and other								
16 years and over	6,079	6,326	55.2	55.8	6,048	6,283	55.1	55.6
16 to 19 years	636	682	52.1	51.5	681	674	51.9	51.2
16 to 17 years	290	298	44.3	44.7	290	294	44.2	44.7
18 to 19 years	396	388	59.9	58.2	391	380	59.6	57.7
20 to 24 years	1,024	1,054	64.7	65.0	1,008	1,033	64.3	64.5
25 to 54 years	3,775	3,942	66.1	66.6	3,764	3,929	66.0	66.5
25 to 34 years	1,770	1,840	70.1	69.4	1,760	1,827	70.0	69.3
35 to 44 years	1,128	1,196	65.1	66.6	1,127	1,195	65.1	66.6
45 to 54 years	877	906	60.3	61.5	877	906	60.3	61.5
55 to 64 years	479	510	43.0	44.5	479	510	43.0	44.5
55 to 59 years	303	325	49.0	52.1	303	325	49.0	52.1
60 to 64 years	176	185	35.6	35.5	176	185	35.6	35.5
65 years and over	116	137	9.0	10.3	116	137	9.0	10.3

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex and age	July 1980						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
TOTAL							
16 years and over	11,117	9,309	211	9,098	1,808	16.3	6,331
16 to 19 years	1,280	785	33	752	495	38.7	958
16 to 17 years	579	344	23	321	235	40.6	582
18 to 19 years	701	441	10	432	260	37.1	376
20 to 24 years	1,822	1,362	20	1,342	460	25.3	646
25 to 54 years	6,791	6,016	114	5,901	776	11.4	2,081
25 to 34 years	3,097	2,631	42	2,588	466	15.1	791
35 to 44 years	2,064	1,870	41	1,829	194	9.4	624
45 to 54 years	1,630	1,515	30	1,485	116	7.1	666
55 to 64 years	969	912	26	886	58	5.9	875
55 to 59 years	599	557	13	544	42	7.0	394
60 to 64 years	370	355	13	342	16	4.2	481
65 years and over	254	235	18	217	19	7.5	1,770
Males							
16 years and over	5,799	4,830	171	4,659	969	16.7	2,023
16 to 19 years	692	434	32	402	257	37.1	395
16 to 17 years	324	199	22	177	125	38.6	260
18 to 19 years	367	235	10	227	132	36.0	136
20 to 24 years	930	699	14	685	231	24.8	162
25 to 54 years	3,525	3,088	85	3,001	439	12.5	438
25 to 34 years	1,576	1,318	27	1,289	259	16.4	142
35 to 44 years	1,068	955	31	924	113	10.6	115
45 to 54 years	881	814	25	789	68	7.7	181
55 to 64 years	522	488	22	466	35	6.7	317
55 to 59 years	318	292	11	282	25	7.9	139
60 to 64 years	205	196	12	184	10	4.9	177
65 years and over	128	122	17	105	6	4.7	711
Females							
16 years and over	5,318	4,479	40	4,439	839	15.8	4,308
16 to 19 years	588	351	1	350	238	40.4	563
16 to 17 years	255	145	1	144	110	43.0	322
18 to 19 years	334	206	--	205	128	38.4	240
20 to 24 years	892	663	6	657	229	25.7	484
25 to 54 years	3,266	2,928	29	2,900	337	10.3	1,643
25 to 34 years	1,521	1,313	15	1,299	207	13.6	649
35 to 44 years	996	915	10	905	81	8.2	509
45 to 54 years	749	701	5	696	48	6.5	485
55 to 64 years	447	424	4	420	23	5.1	558
55 to 59 years	281	265	2	262	17	6.0	255
60 to 64 years	165	159	1	158	6	3.7	304
65 years and over	126	113	1	112	13	10.2	1,059

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

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
TOTAL								
Total noninstitutional population	163,685	166,391	69,995	71,326	77,014	78,493	16,677	16,572
Total labor force	107,077	109,095	56,777	57,493	38,331	39,736	11,969	11,867
Percent of population	65.4	65.6	81.1	80.6	49.8	50.6	71.8	71.6
Civilian labor force	104,995	106,997	55,101	55,831	38,214	39,602	11,680	11,563
Employed	98,891	98,587	52,966	52,247	36,045	36,881	9,879	9,459
Agriculture	3,857	3,853	2,520	2,475	748	719	589	659
Nonagricultural industries	95,034	94,734	50,446	49,771	35,297	36,162	9,290	8,801
Unemployed	6,104	8,410	2,134	3,585	2,169	2,721	1,801	2,104
Percent of labor force	5.8	7.9	3.9	6.4	5.7	6.9	15.4	18.2
Not in labor force	56,609	57,296	13,218	13,833	38,683	38,758	4,707	4,705
White								
Total noninstitutional population	143,303	145,382	61,915	62,977	67,321	68,473	14,068	13,938
Total labor force	93,828	95,440	50,432	51,031	32,937	34,092	10,458	10,316
Percent of population	65.5	65.6	81.5	81.0	48.9	49.8	74.3	74.0
Civilian labor force	92,185	93,821	49,103	49,741	32,847	33,993	10,235	10,087
Employed	87,607	87,400	47,464	46,931	31,246	31,957	8,897	8,511
Agriculture	3,525	3,576	2,303	2,290	689	670	532	618
Nonagricultural industries	84,083	83,822	45,161	44,641	30,556	31,288	8,365	7,894
Unemployed	4,578	6,422	1,639	2,810	1,601	2,036	1,338	1,576
Percent of labor force	5.0	6.8	3.3	5.6	4.9	6.0	13.1	15.6
Not in labor force	49,475	49,948	11,482	11,945	34,384	34,381	3,609	3,622
Black and other								
Total noninstitutional population	20,382	21,003	8,080	8,349	9,693	10,020	2,609	2,634
Total labor force	13,249	13,655	6,344	6,461	5,394	5,643	1,511	1,550
Percent of population	65.0	65.0	78.5	77.4	55.6	56.3	57.9	58.9
Civilian labor force	12,810	13,175	5,998	6,090	5,367	5,609	1,445	1,476
Employed	11,284	11,187	5,502	5,315	4,800	4,924	982	948
Agriculture	333	275	217	185	59	49	57	41
Nonagricultural industries	10,951	10,912	5,285	5,130	4,741	4,875	925	907
Unemployed	1,526	1,988	496	775	567	885	463	528
Percent of labor force	11.9	15.1	8.3	12.7	10.6	12.2	32.0	35.8
Not in labor force	7,133	7,348	1,736	1,888	4,299	4,377	1,098	1,083

HOUSEHOLD DATA

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

(Numbers in thousands)

Employment status	July 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	25,071	12,670	12,401	21,141	10,728	10,413	3,931	1,943	1,988
Total labor force	18,794	10,383	8,411	16,293	8,993	7,300	2,501	1,390	1,111
Percent of population	75.0	81.9	67.8	77.1	83.8	70.1	63.6	71.5	55.9
Civilian labor force	18,088	9,741	8,348	15,765	8,511	7,254	2,324	1,230	1,094
Employed	15,116	8,093	7,023	13,558	7,253	6,305	1,557	840	717
Agriculture	849	675	175	798	628	170	51	47	4
Nonagricultural industries	14,267	7,419	6,848	12,760	6,626	6,135	1,506	793	713
Unemployed	2,973	1,648	1,325	2,206	1,257	949	766	390	376
Looking for full-time work	2,269	1,286	983	1,689	1,001	688	580	284	295
Looking for part-time work	704	362	342	517	256	261	187	106	81
Percent of labor force	16.4	16.9	15.9	14.0	14.8	13.1	33.0	31.7	34.4
Not in labor force	6,277	2,288	3,990	4,847	1,735	3,113	1,430	553	877
Major activity: going to school									
Civilian labor force	386	159	227	309	126	182	77	32	45
Employed	257	94	163	230	92	138	27	2	25
Agriculture	4	--	7	5	--	7	--	--	--
Nonagricultural industries	253	97	156	225	95	130	28	2	26
Unemployed	129	65	64	78	34	44	50	31	19
Looking for full-time work	33	6	27	12	1	11	21	5	16
Looking for part-time work	95	59	37	66	33	34	29	26	3
Percent of labor force	33.3	40.9	28.0	25.4	27.0	24.3	65.0	(1)	(1)
Not in labor force	1,100	487	613	778	358	421	321	130	192
Major activity: other									
Civilian labor force	17,703	9,582	8,121	15,456	8,384	7,072	2,247	1,198	1,049
Employed	14,859	7,999	6,859	13,328	7,161	6,167	1,530	836	692
Agriculture	845	678	168	793	630	163	52	47	5
Nonagricultural industries	14,013	7,322	6,692	12,535	6,531	6,004	1,478	791	687
Unemployed	2,844	1,582	1,261	2,128	1,223	904	716	359	357
Looking for full-time work	2,236	1,280	956	1,677	1,000	677	559	280	279
Looking for part-time work	608	303	305	450	223	227	158	80	78
Percent of labor force	16.1	16.5	15.5	13.8	14.6	12.8	31.9	30.0	34.0
Not in labor force	5,178	1,800	3,377	4,069	1,377	2,692	1,108	423	685

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

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

[Numbers in thousands]

Race, sex, and age	July 1980								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over.....	93,507	81,096	5,230	7,261	7.8	13,410	12,261	1,149	8.6
16 to 21 years.....	14,044	9,654	2,120	2,269	16.2	4,045	3,341	704	17.4
16 to 19 years.....	8,258	5,149	1,624	1,484	18.0	3,305	2,686	619	18.7
16 to 17 years.....	2,986	1,502	897	587	19.6	2,139	1,696	443	20.7
18 to 19 years.....	5,272	3,647	727	898	17.0	1,166	990	176	15.1
20 years and over.....	85,329	75,947	3,606	5,776	6.8	10,105	9,575	529	5.2
20 to 24 years.....	14,594	11,840	956	1,798	12.3	1,529	1,376	153	10.0
25 years and over.....	70,735	64,107	2,650	3,978	5.6	8,575	8,199	376	4.4
25 to 54 years.....	59,883	53,141	2,157	3,584	6.1	5,801	5,499	302	5.2
55 years and over.....	11,852	10,966	492	394	3.3	2,774	2,699	75	2.7
Males, 16 years and over.....	59,072	51,070	2,750	4,253	7.3	4,024	3,544	479	11.9
16 to 21 years.....	7,948	5,533	1,129	1,286	16.2	1,793	1,431	362	20.2
16 to 19 years.....	4,734	3,034	879	821	17.3	1,531	1,204	327	21.4
20 years and over.....	53,339	48,035	1,871	3,432	6.4	2,493	2,340	152	6.1
20 to 24 years.....	8,234	6,677	494	1,063	12.9	516	465	50	9.7
25 years and over.....	45,104	41,358	1,377	2,369	5.3	1,977	1,874	103	5.2
25 to 54 years.....	37,265	34,048	1,117	2,101	5.6	771	713	58	7.5
55 years and over.....	7,839	7,310	260	269	3.4	1,206	1,162	45	3.7
Females, 16 years and over.....	35,515	30,027	2,480	3,008	8.5	9,386	8,717	669	7.1
16 to 21 years.....	6,096	4,121	992	983	16.1	2,252	1,910	342	15.2
16 to 19 years.....	3,524	2,115	746	663	18.8	1,774	1,482	292	16.5
20 years and over.....	31,990	27,912	1,734	2,344	7.3	7,612	7,235	377	5.0
20 to 24 years.....	6,360	5,163	462	735	11.6	1,013	911	102	10.1
25 years and over.....	25,631	22,749	1,272	1,609	6.3	6,599	6,324	275	4.2
25 to 54 years.....	21,618	19,093	1,040	1,484	6.9	5,030	4,787	245	4.9
55 years and over.....	4,014	3,656	232	125	3.1	1,569	1,538	31	2.0
White									
Males, 16 years and over.....	51,722	46,114	2,277	3,330	6.4	3,482	3,129	353	10.1
16 to 21 years.....	6,999	5,059	938	1,001	14.3	1,512	1,256	256	16.9
16 to 19 years.....	4,153	2,792	724	637	15.3	1,310	1,073	237	18.1
20 years and over.....	47,569	43,322	1,553	2,693	5.7	2,172	2,056	117	5.4
20 to 24 years.....	7,242	5,985	425	831	11.5	418	384	34	8.1
25 years and over.....	40,326	37,336	1,128	1,862	4.6	1,754	1,672	83	4.7
25 to 54 years.....	33,150	30,600	913	1,636	4.9	666	621	45	6.8
55 years and over.....	7,176	6,736	214	226	3.1	1,089	1,051	38	3.5
Females, 16 years and over.....	30,132	25,877	2,045	2,210	7.3	8,486	7,958	528	6.2
16 to 21 years.....	5,247	3,721	838	688	13.1	2,007	1,746	261	13.0
16 to 19 years.....	3,047	1,922	649	476	15.6	1,578	1,352	226	14.3
20 years and over.....	27,085	23,955	1,396	1,734	6.4	6,908	6,606	302	4.4
20 to 24 years.....	5,423	4,545	374	504	9.3	917	842	76	8.3
25 years and over.....	21,663	19,411	1,022	1,229	5.7	5,991	5,765	227	3.8
25 to 54 years.....	18,109	16,129	843	1,136	6.3	4,611	4,406	205	4.4
55 years and over.....	3,554	3,291	179	93	2.6	1,380	1,359	22	1.6
Black and other									
Males, 16 years and over.....	6,350	4,955	472	923	14.5	541	415	126	23.3
16 to 21 years.....	949	474	191	284	30.0	281	175	106	37.6
16 to 19 years.....	581	242	155	184	31.6	221	131	90	40.8
20 years and over.....	5,770	4,713	318	739	12.8	320	285	36	11.2
20 to 24 years.....	992	692	69	231	23.3	98	81	17	16.9
25 years and over.....	4,778	4,021	249	507	10.6	222	202	19	8.6
25 to 54 years.....	4,116	3,447	204	464	11.3	105	92	13	12.4
55 years and over.....	663	574	46	43	6.5	116	110	6	5.2
Females, 16 years and over.....	5,383	4,150	436	798	14.8	900	759	141	15.7
16 to 21 years.....	849	400	153	295	34.8	245	164	81	33.1
16 to 19 years.....	478	193	97	187	39.2	197	130	67	33.8
20 years and over.....	4,905	3,956	339	610	12.4	704	629	75	10.6
20 to 24 years.....	937	618	88	231	24.7	96	69	26	27.6
25 years and over.....	3,968	3,338	251	380	9.6	608	560	49	8.1
25 to 54 years.....	3,509	2,964	197	348	9.9	420	381	40	9.5
55 years and over.....	463	374	53	32	7.0	188	179	9	4.8

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	July 1980									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over	106,997	65.1	98,587	8,410	7.9	57,296	32,926	1,969	2,517	19,884
Husbands ¹	40,848	81.0	38,988	1,860	4.6	9,612	144	134	972	8,362
With employed wife	20,157	92.1	19,342	815	4.0	1,722	37	55	304	1,326
With unemployed wife	1,334	93.2	1,180	155	11.6	98	7	4	21	65
With wife not in labor force	17,607	70.8	16,822	785	4.5	7,255	90	53	584	6,528
Wives	23,311	48.4	21,879	1,432	6.1	24,862	22,231	188	265	2,178
With employed husband	20,522	55.0	19,343	1,180	5.7	16,822	15,387	158	85	1,193
With unemployed husband	969	55.2	815	155	16.0	785	726	9	4	45
With husband not in labor force	1,820	20.1	1,722	98	5.4	7,255	6,118	20	176	940
Relatives in husband-wife families	16,949	72.2	14,516	2,433	14.4	6,542	1,494	938	361	3,749
16-19 years	8,449	72.6	7,110	1,339	15.8	3,196	360	498	19	2,320
20-24 years	5,650	84.2	4,887	763	13.5	1,062	189	374	30	469
25 years and over	2,850	55.5	2,519	331	11.6	2,284	945	66	312	960
Women who head families	5,038	57.4	4,584	454	9.0	3,737	2,963	90	158	524
Relatives in female-headed families	4,908	64.1	3,799	1,109	22.6	2,745	791	308	222	1,421
16-19 years	1,835	65.5	1,286	549	29.9	967	137	183	6	641
20-24 years	1,427	78.8	1,133	294	20.6	384	119	90	16	158
25 years and over	1,646	54.2	1,380	266	16.2	1,394	535	35	200	622
Persons not living in families ²	15,943	61.9	14,821	1,122	7.0	9,798	5,303	311	539	3,650

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	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
	Total, 16 years and over	3,072	4,732	5.0	7.6	3,032	3,677	7.0	8.2
Married, spouse present	1,026	1,861	2.5	4.7	1,170	1,530	5.0	6.4
Widowed, divorced, or separated	298	454	6.4	8.9	539	588	6.8	7.1
Single (never married)	1,748	2,417	10.7	14.2	1,322	1,559	10.6	12.1
Whites, 16 years and over	2,338	3,684	4.3	6.7	2,241	2,738	6.0	7.1
Married, spouse present	841	1,574	2.3	4.3	981	1,300	4.7	6.1
Widowed, divorced, or separated	214	326	5.6	7.7	381	406	6.0	6.1
Single (never married)	1,282	1,784	9.0	12.3	879	1,032	8.4	9.6
Black and other, 16 years and over	735	1,049	10.9	15.2	791	939	13.1	14.9
Married, spouse present	185	287	5.0	8.1	190	231	7.7	9.0
Widowed, divorced, or separated	84	128	9.9	14.6	159	182	10.1	11.0
Single (never married)	466	633	20.8	25.6	443	526	21.8	25.4
Total, 20 to 64 years of age	2,081	3,518	3.9	6.5	2,135	2,687	5.7	7.0
Married, spouse present	963	1,790	2.5	4.7	1,088	1,426	4.9	6.2
Widowed, divorced, or separated	285	445	6.4	9.2	495	564	6.8	7.4
Single (never married)	834	1,283	8.1	11.8	552	699	7.4	8.9
Whites, 20 to 64 years of age	1,593	2,753	3.4	5.7	1,570	2,015	4.9	6.1
Married, spouse present	779	1,510	2.2	4.3	902	1,212	4.5	5.9
Widowed, divorced, or separated	207	321	5.7	8.0	345	391	6.0	6.4
Single (never married)	607	921	6.9	10.0	324	412	5.3	6.4
Black and other, 20 to 64 years of age	490	766	8.4	12.9	564	672	10.7	12.3
Married, spouse present	183	279	5.2	8.2	187	213	7.9	8.6
Widowed, divorced, or separated	78	124	9.8	14.9	150	173	10.1	11.0
Single (never married)	227	362	15.5	21.6	228	286	16.4	20.0

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
Total, 16 years and over	6,104	8,410	5.8	7.9	5.0	7.6	7.0	8.2
White-collar workers	1,715	2,042	3.4	3.9	2.2	2.8	4.4	4.8
Professional and technical	440	443	2.9	2.8	2.0	2.2	4.3	3.6
Managers and administrators, except farm	215	283	2.0	2.5	1.5	2.3	3.4	3.1
Sales workers	220	260	3.4	4.0	2.6	3.3	4.4	5.0
Clerical workers	840	1,055	4.5	5.5	4.3	5.0	4.6	5.6
Blue-collar workers	2,221	3,759	6.2	10.7	5.5	9.9	9.4	14.1
Craft and kindred workers	511	650	3.7	6.2	3.6	6.3	4.8	5.5
Carpenters and other construction craft	218	412	4.8	9.2	4.8	9.3	4.5	6.9
All other	293	438	3.1	4.8	3.0	4.7	4.8	5.3
Operatives, except transport	966	1,724	8.0	14.4	6.8	13.5	9.8	15.8
Transport equipment operatives	193	384	5.1	10.4	4.6	10.0	10.7	16.0
Nonfarm laborers	552	800	9.1	13.7	8.9	14.0	10.9	11.0
Construction laborers	164	213	12.9	18.8	12.1	18.9	(1)	(1)
All other	388	587	8.2	12.5	8.0	12.7	9.3	10.9
Service workers	1,014	1,244	7.2	8.6	7.1	9.4	7.3	8.0
Private household	59	44	5.2	3.9	(1)	(1)	5.3	3.7
All other	955	1,200	7.4	9.0	7.1	9.4	7.6	8.6
Farm workers	113	128	3.5	3.9	3.2	3.3	4.5	5.9
No previous work experience	1,040	1,238	--	--	--	--	--	--
16 to 19 years	822	977	--	--	--	--	--	--
20 to 24 years	156	174	--	--	--	--	--	--
25 years and over	62	88	--	--	--	--	--	--

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	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
Total, 16 years and over	100.0	100.0	5.8	7.9	5.0	7.6	7.0	8.2
Nonagricultural private wage and salary workers	68.3	72.6	5.4	7.8	4.8	8.0	6.2	7.6
Mining	.8	.8	5.3	6.3	4.7	6.2	9.4	7.2
Construction	6.7	7.9	7.5	12.5	7.3	13.1	9.9	5.9
Manufacturing	20.8	27.3	5.5	9.9	4.5	9.0	7.6	11.8
Durable goods	11.0	18.1	5.2	10.9	4.7	10.2	6.5	12.8
Lumber and wood products	.6	1.1	5.8	12.9	6.1	13.4	3.4	9.6
Furniture and fixtures	.6	.7	6.6	11.3	6.9	11.1	6.0	11.8
Stone, clay, and glass products	.8	.7	6.9	8.5	5.3	7.5	13.4	12.9
Primary metal industries	.9	2.3	4.1	14.8	3.8	15.1	6.2	12.8
Fabricated metal products	1.5	2.2	5.8	11.8	5.0	10.8	8.7	15.6
Machinery, except electrical equipment	1.6	2.5	3.4	7.1	3.2	6.8	4.0	8.5
Electrical equipment	1.6	2.6	3.9	9.2	3.5	7.5	4.3	11.3
Transportation equipment	2.6	4.7	6.6	16.1	6.5	14.7	7.0	22.1
Automobiles	1.8	4.0	8.1	25.9	7.9	23.4	8.9	37.4
Other transportation equipment	.8	.6	4.6	4.8	4.7	4.3	4.3	6.5
Instruments and related products	.4	.4	4.1	5.3	2.6	4.4	5.7	6.6
Other durable goods industries	1.2	.9	9.9	10.3	6.7	6.2	13.0	16.7
Nondurable goods	8.9	9.2	5.9	8.4	4.1	6.6	8.7	10.9
Food and kindred products	2.2	1.7	6.7	7.6	5.1	7.2	10.5	8.4
Textile mill products	1.0	1.0	6.8	9.6	3.2	8.0	10.9	11.3
Apparel and other textile products	2.0	2.3	8.4	13.7	8.8	10.3	8.3	14.8
Paper and allied products	.5	.7	3.8	7.1	2.6	5.6	8.3	12.6
Printing and publishing	1.2	1.0	5.0	5.7	3.0	4.8	7.9	7.0
Chemicals and allied products	.7	.7	3.5	4.4	3.1	4.7	4.8	3.7
Rubber and plastics products	.6	1.1	5.1	12.7	3.6	10.5	8.1	17.7
Other nondurable goods industries	.8	.6	7.2	8.4	5.2	5.5	10.3	11.3
Transportation and public utilities	3.4	3.9	3.7	5.8	3.5	5.9	4.3	5.4
Railroads and railway express	.1	.3	.9	4.5	1.0	4.4	(1)	(1)
Other transportation	2.6	2.9	5.9	9.2	5.8	9.3	6.5	8.7
Communication and other public utilities	.7	.7	1.8	2.4	1.0	1.8	3.1	3.4
Wholesale and retail trade	19.2	16.9	6.2	7.4	5.4	7.0	7.1	7.9
Finance, insurance, and real estate	2.5	2.1	2.8	3.2	2.9	3.3	2.7	3.1
Service industries	15.0	13.6	5.3	6.3	4.4	6.4	5.8	6.2
Professional services	7.3	5.5	4.6	4.5	3.6	3.9	5.0	4.8
All other service industries	7.7	8.1	6.2	8.5	5.2	8.5	7.1	8.5
Agricultural wage and salary workers	2.5	2.0	8.1	9.3	8.0	8.2	8.5	13.0
All other classes of workers	12.1	10.7	2.9	3.5	2.1	2.9	4.1	4.3
No previous work experience	17.0	14.7	--	--	--	--	--	--

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

HOUSEHOLD DATA

A-13. Unemployed persons by reason for unemployment, sex, age, end 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	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands.....	6,104	8,410	2,134	3,585	2,169	2,721	1,801	2,104	4,578	6,422	1,526	1,988
Job losers.....	2,403	4,367	1,302	2,599	782	1,352	320	416	1,877	3,434	527	933
On layoff.....	728	1,819	382	1,106	275	607	70	105	596	1,515	132	304
Other job losers.....	1,675	2,548	920	1,493	507	745	250	311	1,281	1,919	395	629
Job leavers.....	889	907	319	359	370	384	200	164	751	771	138	136
Reentrants.....	1,773	1,900	425	526	418	468	460	548	1,245	1,380	528	519
New entrants.....	1,038	1,237	89	101	129	159	821	977	705	837	333	400
PERCENT DISTRIBUTION												
Total unemployed.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers.....	39.3	51.9	61.0	72.5	36.0	49.7	17.7	19.8	41.0	53.5	34.6	47.0
On layoff.....	11.9	21.6	17.9	30.9	12.7	22.3	3.9	5.0	13.0	23.6	8.7	15.3
Other job losers.....	27.4	30.3	43.1	41.6	23.3	27.4	13.8	14.8	28.0	29.9	25.9	31.7
Job leavers.....	14.6	10.8	14.9	10.0	17.1	14.1	11.1	7.8	16.4	12.0	9.0	6.8
Reentrants.....	29.0	22.6	19.9	14.7	40.9	30.4	25.5	26.0	27.2	21.5	34.6	26.1
New entrants.....	17.0	14.7	4.2	2.8	6.0	5.8	45.6	46.4	15.4	13.0	21.8	20.1
UNEMPLOYMENT RATE												
Total unemployment rate.....	5.8	7.9	3.9	6.4	5.7	6.9	15.4	18.2	5.0	6.8	11.9	15.1
Job loser rate ¹	2.3	4.1	2.4	4.7	2.0	3.4	2.7	3.6	2.0	3.6	4.1	7.1
Job leaver rate ¹.....	.8	.8	.6	.6	1.0	1.0	1.7	1.4	.8	.8	1.1	1.0
Reentrant rate ¹	1.7	1.8	.8	.9	2.3	2.1	3.9	4.7	1.4	1.5	4.1	3.9
New entrant rate ¹	1.0	1.2	.2	.2	.3	.4	7.0	8.4	.8	.9	2.6	3.0

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	July 1980						
	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.....	8,410	100.0	42.4	36.7	20.9	10.3	10.6
Job losers.....	4,367	100.0	36.4	35.1	28.5	13.9	14.6
On layoff.....	1,819	100.0	43.4	37.3	19.3	10.4	8.9
Other job losers.....	2,548	100.0	31.4	33.6	35.0	16.3	18.7
Job leavers.....	907	100.0	46.8	34.0	19.2	9.4	9.8
Reentrants.....	1,900	100.0	49.8	37.6	12.5	6.7	5.9
New entrants.....	1,237	100.0	49.3	42.5	8.2	4.2	4.1
Males, 20 years and over.....	3,585	100.0	36.1	35.4	28.5	12.9	15.6
Job losers.....	2,599	100.0	34.0	34.8	31.2	13.9	17.3
On layoff.....	1,106	100.0	43.2	37.4	19.5	9.9	9.5
Other job losers.....	1,493	100.0	27.2	32.8	40.0	16.9	23.1
Job leavers.....	359	100.0	43.8	32.5	23.6	11.4	12.2
Reentrants.....	526	100.0	42.9	36.8	20.3	9.3	11.0
New entrants.....	101	100.0	28.4	55.1	16.6	9.4	7.1
Females, 20 years and over.....	2,721	100.0	44.3	34.9	20.8	11.1	9.7
Job losers.....	1,352	100.0	38.3	34.9	26.8	14.4	12.4
On layoff.....	607	100.0	42.8	36.5	20.6	11.9	8.8
Other job losers.....	745	100.0	34.5	33.6	31.8	16.5	15.4
Job leavers.....	384	100.0	47.2	33.8	19.1	9.0	10.1
Reentrants.....	426	100.0	52.5	34.5	13.0	7.4	5.6
New entrants.....	159	100.0	46.1	39.1	14.8	7.2	7.6
Both sexes, 16 to 19 years.....	2,104	100.0	50.8	41.1	8.2	5.0	3.1
Job losers.....	416	100.0	45.0	38.2	16.8	11.7	5.1
On layoff.....	105	100.0	48.7	41.0	10.3	7.6	2.7
Other job losers.....	311	100.0	43.8	37.2	19.0	13.1	6.0
Job leavers.....	164	100.0	52.5	37.7	9.8	5.9	3.9
Reentrants.....	548	100.0	52.5	43.1	4.4	3.0	1.4
New entrants.....	977	100.0	52.0	41.7	6.3	3.1	3.2

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

Sex, age, and race	July 1980								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives			Other
Total, 16 years and over	8,410	6,427	27.9	6.9	74.0	31.2	15.8	5.3	1.61
16 to 19 years	2,104	1,968	20.0	4.5	80.3	25.6	17.2	3.5	1.51
20 to 24 years	1,950	1,522	32.1	7.0	75.7	34.4	14.7	4.3	1.68
25 to 34 years	2,154	1,544	33.8	9.3	67.4	35.7	16.4	7.2	1.70
35 to 44 years	1,014	642	30.2	8.1	72.6	31.6	12.8	5.1	1.60
45 to 54 years	718	446	26.9	9.6	71.1	34.1	14.6	7.8	1.64
55 to 64 years	368	230	28.3	5.7	67.8	25.7	16.1	8.7	1.52
65 years and over	100	75	12.0	1.3	58.7	20.0	25.3	13.3	1.31
Males, 16 years and over	4,732	3,481	31.3	7.4	74.4	28.5	20.3	6.4	1.68
16 to 19 years	1,148	1,069	20.9	4.5	80.0	23.0	20.6	3.8	1.53
20 to 24 years	1,113	821	36.3	6.3	77.6	32.2	18.3	4.4	1.75
25 to 34 years	1,247	825	38.8	11.3	67.9	32.2	23.8	8.6	1.83
35 to 44 years	524	331	35.6	7.9	70.1	27.5	16.6	8.2	1.66
45 to 54 years	389	239	33.1	14.6	71.5	31.0	18.8	10.5	1.79
55 to 64 years	246	149	28.9	3.4	70.5	30.2	17.4	10.7	1.61
65 years and over	67	48	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,677	2,946	23.9	6.4	73.6	34.4	10.6	4.1	1.53
16 to 19 years	956	899	19.0	4.4	80.8	28.6	13.1	3.1	1.49
20 to 24 years	838	701	27.1	7.8	73.5	37.1	10.4	4.1	1.60
25 to 34 years	908	719	28.1	7.1	66.8	39.6	7.9	5.6	1.55
35 to 44 years	490	312	24.4	8.3	75.3	35.9	8.7	1.9	1.54
45 to 54 years	330	208	19.2	3.8	70.2	37.5	9.6	4.8	1.45
55 to 64 years	122	81	27.2	9.9	63.0	18.5	13.6	4.9	1.37
65 years and over	34	27	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	6,422	4,759	26.0	6.7	75.8	33.2	15.3	5.0	1.62
Males	3,684	2,625	29.5	7.1	76.6	30.8	19.4	6.1	1.69
Females	2,738	2,134	21.6	6.1	74.8	36.2	10.3	3.8	1.53
Black and other, 16 years and over	1,988	1,668	33.3	7.8	68.8	25.5	17.4	6.2	1.59
Males	1,049	856	36.7	8.3	67.4	21.5	23.1	7.5	1.64
Females	939	812	29.8	7.1	70.3	29.7	11.3	4.8	1.53

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	July 1980								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives			Other
Total, 16 years and over	8,410	6,427	27.9	6.9	74.0	31.2	15.8	5.3	1.61
Job losers	4,367	2,538	35.5	8.0	72.1	33.3	16.5	6.0	1.71
Job leavers	907	899	27.8	8.3	75.2	34.8	14.9	3.0	1.64
Reentrants	1,900	1,763	22.7	6.6	71.9	31.2	14.6	6.9	1.54
New entrants	1,237	1,227	19.5	4.4	80.1	24.1	16.8	3.3	1.48
Males, 16 years and over	4,732	3,481	31.3	7.4	74.4	28.5	20.3	6.4	1.68
Job losers	2,873	1,685	37.0	8.1	72.2	31.8	19.9	7.4	1.76
Job leavers	445	441	32.4	8.6	80.0	27.4	19.0	3.2	1.71
Reentrants	844	785	26.4	7.3	72.9	25.5	20.8	8.4	1.61
New entrants	570	569	20.4	4.7	78.7	23.9	22.0	3.3	1.53
Females, 16 years and over	3,677	2,946	23.9	6.4	73.6	34.4	10.6	4.1	1.53
Job losers	1,493	852	32.7	7.6	71.8	36.4	9.9	3.4	1.62
Job leavers	461	457	23.4	8.1	70.7	42.0	11.2	2.8	1.58
Reentrants	1,056	979	19.8	6.1	71.2	35.8	9.6	5.7	1.48
New entrants	666	658	18.7	4.1	81.5	24.3	12.3	3.3	1.48

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	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
Total, 16 years and over	6,104	8,410	100.0	100.0	5,051	7,261	100.0	100.0
Less than 5 weeks	2,979	3,568	48.8	42.4	2,385	2,886	47.2	39.7
5 to 14 weeks	2,147	3,083	35.2	36.7	1,742	2,712	34.5	37.4
5 to 10 weeks	1,764	2,413	28.9	28.7	1,401	2,078	27.7	28.6
11 to 14 weeks	383	670	6.3	8.0	341	634	6.8	8.7
15 weeks and over	977	1,758	16.0	20.9	924	1,663	18.3	22.9
15 to 26 weeks	510	369	8.3	10.3	483	808	9.6	11.1
27 weeks and over	468	889	7.7	10.6	441	855	8.7	11.8
27 to 51 weeks	246	609	4.0	7.2	229	582	4.5	8.0
52 weeks and over	222	280	3.6	3.3	212	273	4.2	3.8
Average (mean) duration, in weeks	9.6	11.0	--	--	10.3	11.7	--	--
Median duration, in weeks	5.2	6.2	--	--	5.4	6.7	--	--

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			July 1979	July 1980	July 1979	July 1980
	July 1980										
Total, 16 years and over	8,410	3,568	3,083	869	889	11.0	6.2	48.8	42.4	16.0	20.9
16 to 21 years	2,973	1,415	1,228	177	153	7.9	5.3	54.1	47.6	7.6	11.1
16 to 19 years	2,104	1,068	864	105	66	6.9	4.9	55.9	50.8	6.2	8.2
20 to 24 years	1,950	801	753	198	198	10.5	6.5	51.4	41.1	14.3	20.3
25 to 34 years	2,154	826	748	276	305	13.0	7.4	44.4	38.3	19.2	27.0
35 to 44 years	1,014	417	342	138	117	11.7	6.9	43.9	41.2	25.6	25.1
45 to 64 years	718	253	250	89	127	14.9	7.9	41.5	35.2	23.6	30.1
65 to 64 years	368	160	103	48	58	14.5	7.3	41.8	43.4	31.0	28.7
65 years and over	100	44	23	14	19	14.7	6.4	33.8	43.9	28.5	32.9
Males, 16 years and over	4,732	1,840	1,741	549	603	12.2	6.7	46.4	33.9	19.4	24.3
16 to 21 years	1,648	727	679	134	108	8.8	5.6	53.5	44.1	8.7	14.7
16 to 19 years	1,148	545	471	87	45	7.6	5.2	55.6	47.5	6.5	11.5
20 to 24 years	1,113	412	436	126	138	11.7	7.4	49.0	37.1	16.8	23.7
25 to 34 years	1,247	417	441	166	223	14.8	8.6	43.4	33.5	23.1	31.2
35 to 44 years	524	192	180	77	75	12.9	8.2	38.2	36.7	35.0	29.0
45 to 64 years	389	130	122	57	80	17.2	8.5	33.5	33.6	32.4	35.1
65 to 64 years	246	111	70	32	33	14.2	6.9	36.1	44.9	34.3	26.4
65 years and over	67	32	20	5	9	12.3	5.3	(1)	(1)	(1)	(1)
Females, 16 years and over	3,677	1,728	1,342	320	286	9.4	5.5	51.2	47.0	12.6	16.5
16 to 21 years	1,325	688	549	43	45	6.9	4.8	54.8	51.9	6.4	6.7
16 to 19 years	956	523	393	18	22	6.2	4.6	56.1	54.7	5.8	4.2
20 to 24 years	838	388	317	72	60	8.9	5.6	53.8	46.4	11.7	15.7
25 to 34 years	908	409	306	110	83	10.6	6.0	45.2	45.0	15.9	21.3
35 to 44 years	490	225	162	61	41	10.3	5.8	48.7	46.0	17.6	20.9
45 to 64 years	330	122	128	33	47	12.3	7.6	49.6	37.1	14.7	24.2
65 to 64 years	122	49	32	17	24	15.2	7.9	51.4	40.2	25.4	33.4
65 years and over	34	12	3	9	9	19.3	17.2	(1)	(1)	(1)	(1)
White, 16 years and over	6,422	2,726	2,350	665	681	10.9	6.1	49.6	42.4	16.0	21.0
Males	3,684	1,434	1,331	438	481	12.3	6.7	46.4	38.9	19.9	25.0
Females	2,738	1,292	1,019	227	199	9.0	5.4	52.9	47.2	12.0	15.6
Black and other, 16 years and over	1,988	843	733	204	208	11.4	6.4	46.5	42.4	16.0	20.7
Males	1,049	406	410	111	122	12.2	6.9	46.4	38.7	17.9	22.2
Females	939	437	323	93	86	10.5	5.7	46.6	46.5	14.1	19.1
Males, 16 years and over:											
Married, spouse present	1,861	671	657	240	293	13.6	8.1	42.6	36.1	25.9	28.6
Widowed, divorced, or separated	454	163	144	71	76	15.2	8.9	40.4	35.9	28.7	32.4
Single (never married)	2,417	1,006	940	238	234	10.7	6.0	49.7	41.6	14.1	19.5
Females, 16 years and over:											
Married, spouse present	1,530	713	516	180	121	9.7	5.7	51.3	46.6	12.5	19.7
Widowed, divorced, or separated	598	241	203	67	78	12.7	7.1	47.3	41.0	20.5	24.5
Single (never married)	1,559	775	623	74	87	7.9	5.0	52.8	49.7	9.4	10.3

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

HOUSEHOLD DATA

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			July 1979	July 1980	July 1979	July 1980
	July 1980								July 1979	July 1980	July 1979	July 1980
OCCUPATION											
White-collar workers	2,042	874	726	218	224	11.1	6.3	45.2	42.8	17.3	21.6
Professional and managerial	726	295	248	84	100	12.4	6.8	40.3	40.6	20.5	25.3
Sales workers	260	102	98	21	39	11.6	6.6	49.5	39.2	15.7	23.0
Clerical workers	1,055	477	380	112	85	10.1	6.0	48.0	45.2	15.3	18.7
Blue-collar workers	3,759	1,442	1,342	494	482	12.4	7.1	47.3	38.4	20.5	25.9
Craft and kindred workers	850	308	290	122	130	13.3	7.4	44.0	36.2	20.7	29.7
Operatives, except transport	1,724	647	641	232	204	12.0	7.4	49.5	37.5	20.0	25.3
Transport equipment operatives	384	152	147	50	35	10.7	6.9	47.6	39.6	22.5	22.1
Nonfarm laborers	800	335	264	90	111	12.9	6.5	46.4	41.9	20.3	25.2
Service workers	1,244	569	444	102	128	10.6	5.7	52.5	45.8	13.8	18.5
INDUSTRY¹											
Agriculture	170	92	59	6	13	8.7	4.6	60.1	54.0	4.7	11.2
Construction	683	267	206	99	108	13.0	7.4	47.6	39.4	23.6	30.4
Manufacturing	2,305	857	855	306	287	12.3	7.6	48.2	37.2	21.9	25.7
Durable goods	1,528	517	610	196	204	12.6	8.3	48.3	33.9	24.5	26.2
Nondurable goods	778	339	246	110	83	11.6	6.1	48.2	43.7	18.6	24.7
Transportation and public utilities	371	156	119	48	48	12.6	6.3	40.6	42.0	22.0	26.0
Wholesale and retail trade	1,434	584	554	136	159	11.1	6.5	47.6	40.8	13.9	20.6
Finance and service industries	1,766	804	621	173	169	10.5	5.8	48.8	45.5	14.7	19.4
Public administration	236	96	79	29	33	12.9	6.5	47.0	40.7	19.9	26.0
No previous work experience	1,238	611	525	52	50	7.5	5.1	53.0	49.3	7.8	8.2

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	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
All industries	98,891	98,587	58,350	57,363	40,541	41,224
16 to 19 years	9,879	9,459	5,384	5,117	4,496	4,342
16 to 17 years	4,275	4,095	2,384	2,280	1,890	1,815
18 to 19 years	5,605	5,364	3,000	2,837	2,605	2,527
20 to 24 years	14,611	14,173	8,041	7,637	6,570	6,536
25 to 54 years	60,282	60,798	36,135	35,878	24,147	24,920
25 to 34 years	25,424	25,780	15,249	15,171	10,175	10,610
35 to 44 years	18,612	19,016	11,078	11,145	7,534	7,871
45 to 54 years	16,245	16,001	9,808	9,562	6,437	6,439
55 to 64 years	11,221	11,302	6,927	6,951	4,294	4,351
65 to 69 years	6,985	6,936	4,279	4,231	2,706	2,705
70 to 74 years	4,236	4,366	2,649	2,720	1,587	1,646
75 years and over	2,898	2,856	1,863	1,781	1,035	1,074
Nonagricultural industries	95,034	94,734	55,382	54,364	39,651	40,370
16 to 19 years	9,290	8,801	4,936	4,593	4,354	4,208
16 to 17 years	3,933	3,687	2,127	1,953	1,806	1,734
18 to 19 years	5,357	5,114	2,809	2,640	2,548	2,473
20 to 24 years	14,113	13,702	7,652	7,257	6,461	6,446
25 to 54 years	58,386	58,942	34,741	34,511	23,645	24,429
25 to 34 years	24,697	25,086	14,684	14,634	10,013	10,452
35 to 44 years	18,031	18,403	10,706	10,712	7,374	7,691
45 to 54 years	15,608	15,453	9,351	9,166	6,258	6,287
55 to 64 years	10,699	10,749	6,496	6,499	4,204	4,250
65 to 69 years	6,730	6,654	4,070	4,013	2,660	2,642
70 to 74 years	3,969	4,095	2,425	2,487	1,544	1,608
75 years and over	2,546	2,541	1,558	1,503	988	1,037
Agriculture	3,857	3,853	2,968	2,999	890	854
16 to 19 years	589	659	447	524	142	135
16 to 17 years	341	408	257	327	84	81
18 to 19 years	248	251	190	197	58	54
20 to 24 years	498	470	389	380	109	90
25 to 54 years	1,896	1,856	1,395	1,366	502	490
25 to 34 years	728	694	566	536	162	158
35 to 44 years	532	613	371	433	160	180
45 to 54 years	637	549	457	397	180	152
55 to 64 years	522	553	432	451	90	101
65 to 69 years	255	282	208	218	46	64
70 to 74 years	267	271	223	233	44	38
75 years and over	353	315	305	278	47	37

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	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
	TOTAL	98,891	98,587	52,966	52,247	36,045	36,881	5,384	5,117	4,496	4,342
White-collar workers	49,155	50,718	22,539	23,120	23,594	24,662	822	760	2,200	2,176
Professional and technical	14,491	15,143	8,280	8,436	5,956	6,389	117	158	138	160
Health workers	2,840	2,932	958	984	1,865	1,915	1	11	16	23
Teachers, except college	2,436	2,499	697	686	1,715	1,788	8	4	16	21
Other professional and technical	9,215	9,712	6,625	6,766	2,376	2,686	108	143	106	116
Managers and administrators, except farm	10,696	11,145	7,979	8,178	2,589	2,847	74	64	55	56
Salaried workers	8,739	9,105	6,491	6,633	2,126	2,356	67	57	54	56
Self-employed workers in retail trade	893	935	600	625	291	305	2	6	--	--
Self-employed workers, except retail trade	1,065	1,105	888	919	172	184	4	2	1	--
Sales workers	6,223	6,177	3,123	3,150	2,344	2,301	286	249	470	476
Retail trade	3,228	3,139	984	982	1,595	1,555	221	188	429	414
Other industries	2,995	3,038	2,139	2,168	749	747	66	61	41	62
Clerical workers	17,744	18,254	3,157	3,356	12,705	13,124	345	289	1,537	1,484
Stenographers, typists, and secretaries	4,846	5,060	49	72	4,393	4,591	17	9	387	388
Other clerical workers	12,898	13,194	3,108	3,284	8,312	8,533	328	280	1,150	1,096
Blue-collar workers	33,534	31,410	24,405	23,129	5,422	5,069	3,172	2,778	535	433
Craft and kindred workers	13,397	12,815	11,877	11,454	683	711	779	605	58	45
Carpenters	1,427	1,275	1,270	1,175	15	11	137	88	4	1
Construction craft, except carpenters	2,917	2,796	2,620	2,544	49	61	231	182	17	8
Mechanics and repairers	3,554	3,327	3,252	3,076	40	70	258	178	4	2
Metal craft	1,274	1,279	1,196	1,197	32	44	46	39	--	--
Blue-collar worker supervisors, not elsewhere classified	1,725	1,737	1,544	1,563	156	157	16	16	8	1
All other	2,501	2,400	1,994	1,899	392	367	91	102	24	33
Operatives, except transport	11,038	10,235	5,892	5,565	4,086	3,772	725	644	335	254
Durable goods manufacturing	4,987	4,439	3,006	2,776	1,641	1,421	226	174	114	69
Nondurable goods manufacturing	3,492	3,267	1,350	1,237	1,867	1,754	135	143	141	132
Other industries	2,559	2,528	1,536	1,552	578	598	364	326	81	53
Transport equipment operatives	3,614	3,318	3,146	2,929	225	188	222	187	21	14
Drivers, motor vehicles	3,085	2,821	2,690	2,469	202	175	176	165	18	12
All other	529	497	456	460	23	13	46	22	4	2
Nonfarm laborers	5,485	5,043	3,491	3,181	429	398	1,445	1,343	120	121
Construction	1,113	922	781	663	15	15	312	239	5	6
Manufacturing	1,123	996	822	708	130	139	156	132	16	17
Other industries	3,249	3,124	1,888	1,810	285	244	977	972	99	98
Service workers	13,032	13,295	3,901	3,934	6,445	6,592	1,038	1,149	1,649	1,620
Private household workers	1,071	1,094	10	17	786	830	14	12	262	236
Service workers, except private household	11,961	12,201	3,891	3,917	5,659	5,762	1,025	1,137	1,387	1,384
Food service workers	4,327	4,479	758	860	2,429	2,130	586	664	853	825
Protective service workers	1,399	1,436	1,262	1,255	107	142	23	33	7	6
All other	6,235	6,286	1,871	1,802	3,423	3,490	416	440	527	553
Farm workers	3,170	3,164	2,122	2,064	584	558	352	430	112	113
Farmers and farm managers	1,547	1,596	1,365	1,387	160	181	21	26	2	2
Farm laborers and supervisors	1,622	1,568	757	677	424	376	331	404	110	111
Paid workers	1,218	1,171	710	634	161	151	252	314	94	71
Unpaid family workers	404	397	47	43	263	225	79	90	16	39

HOUSEHOLD DATA

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980
TOTAL						
Total, 18 years and over (thousands)	98,891	98,587	58,350	57,363	40,541	41,224
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	49.7	51.4	40.0	41.6	63.6	65.1
Professional and technical	14.7	15.4	14.4	15.0	15.0	15.9
Managers and administrators, except farm	10.8	11.3	13.8	14.4	6.5	7.0
Sales workers	6.3	6.3	5.8	5.9	6.9	6.7
Clerical workers	17.9	18.5	6.0	6.4	35.1	35.4
Blue-collar workers	33.9	31.9	47.3	45.2	14.7	13.3
Craft and kindred workers	13.5	13.0	21.7	21.0	1.8	1.8
Operatives, except transport	11.2	10.4	11.3	10.8	10.9	9.8
Transport equipment operatives	3.7	3.4	5.8	5.4	.6	.5
Nonfarm laborers	5.5	5.1	8.5	7.9	1.4	1.3
Service workers	13.2	13.5	8.5	8.9	20.0	19.9
Private household workers	1.1	1.1	(1)	.1	2.6	2.6
Other service workers	12.1	12.4	8.4	8.8	17.4	17.3
Farm workers	3.2	3.2	4.2	4.3	1.7	1.6
Farmers and farm managers	1.6	1.6	2.4	2.5	.4	.4
Farm laborers and supervisors	1.6	1.6	1.9	1.9	1.3	1.2
White						
Total, 18 years and over (thousands)	87,607	87,400	52,323	51,520	35,284	35,879
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.2	53.0	41.6	43.0	65.6	67.2
Professional and technical	15.0	15.7	14.9	15.4	15.2	16.1
Managers and administrators, except farm	11.6	12.1	14.7	15.3	7.0	7.5
Sales workers	6.8	6.7	6.2	6.3	7.6	7.3
Clerical workers	17.9	18.5	5.8	6.1	35.8	36.3
Blue-collar workers	33.5	31.4	46.5	44.5	14.2	12.8
Craft and kindred workers	14.1	13.5	22.2	21.5	1.9	1.9
Operatives, except transport	10.7	10.0	10.9	10.5	10.4	9.2
Transport equipment operatives	3.5	3.2	5.4	5.1	.6	.5
Nonfarm laborers	5.2	4.8	7.8	7.3	1.3	1.2
Service workers	12.0	12.2	7.6	8.0	18.4	18.2
Private household workers .....	.8	.8	(1)	(1)	2.0	1.9
Other service workers	11.1	11.4	7.6	8.0	16.4	16.3
Farm workers	3.3	3.4	4.3	4.5	1.8	1.7
Farmers and farm managers	1.7	1.8	2.6	2.7	.4	.5
Farm laborers and supervisors	1.6	1.6	1.7	1.8	1.3	1.2
Black and other						
Total, 18 years and over (thousands)	11,284	11,187	6,027	5,843	5,257	5,344
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	37.7	39.5	26.5	29.1	50.7	50.8
Professional and technical	11.7	12.6	9.9	11.1	13.7	14.3
Managers and administrators, except farm	5.0	5.1	6.3	6.5	3.5	3.7
Sales workers	2.6	2.8	2.5	2.6	2.7	3.1
Clerical workers	18.4	18.9	7.8	9.0	30.6	29.7
Blue-collar workers	37.3	35.1	54.2	51.4	17.8	17.3
Craft and kindred workers	9.5	9.4	16.9	16.6	1.1	1.7
Operatives, except transport	14.7	13.7	14.7	13.9	14.6	13.5
Transport equipment operatives	4.9	4.6	8.8	8.2	.5	.5
Nonfarm laborers	8.1	7.4	13.9	12.8	1.5	1.6
Service workers	22.5	23.5	15.7	16.4	30.3	31.1
Private household workers	3.0	3.4	.1	.2	6.5	6.9
Other service workers	19.4	20.1	15.6	16.2	23.9	24.3
Farm workers	2.5	1.9	3.6	3.0	1.2	.8
Farmers and farm managers .....	.4	.3	.7	.5	.1	(1)
Farm laborers and supervisors	2.1	1.6	2.9	2.4	1.2	.8

¹ Less than 0.05 percent.

HOUSEHOLD DATA

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

[In thousands]

Age and sex	July 1980								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	87,343	1,309	15,208	70,826	6,934	457	1,664	1,765	424
16 to 19 years	8,652	358	913	7,380	106	43	471	57	131
16 to 17 years	3,611	277	410	2,924	48	28	284	31	93
18 to 19 years	5,040	81	503	4,457	58	16	187	26	38
20 to 24 years	13,316	94	1,527	11,695	354	33	324	107	39
25 to 34 years	23,462	131	4,316	19,015	1,543	82	337	316	41
35 to 44 years	16,501	149	3,275	13,077	1,777	124	209	319	85
45 to 54 years	13,848	213	2,939	10,695	1,515	90	152	333	63
55 to 64 years	9,557	214	1,922	7,421	1,126	66	124	383	45
65 to 69 years	5,944	117	1,238	4,589	671	38	63	188	30
70 to 74 years	3,612	97	684	2,832	455	27	61	195	15
75 years and over	2,008	150	316	1,542	513	19	47	249	19
Males, 16 years and over	49,365	236	7,689	41,439	4,924	75	1,308	1,555	137
16 to 19 years	4,495	120	436	3,939	64	34	379	53	92
16 to 17 years	1,918	99	197	1,622	15	19	233	29	65
18 to 19 years	2,577	21	238	2,317	48	15	146	24	27
20 to 24 years	6,963	20	656	6,286	274	20	256	98	26
25 to 34 years	13,532	25	2,180	11,327	1,095	8	256	275	5
35 to 44 years	9,494	10	1,651	7,834	1,212	5	156	274	3
45 to 54 years	8,084	14	1,559	6,510	1,082	--	110	285	2
55 to 64 years	5,663	22	1,035	4,606	831	5	107	342	3
65 to 69 years	3,511	15	653	2,842	500	2	54	162	2
70 to 74 years	2,152	6	382	1,764	331	3	52	180	1
75 years and over	1,133	25	172	936	367	3	44	228	6
Females, 16 years and over	37,978	1,072	7,519	29,387	2,010	382	356	210	288
16 to 19 years	4,156	237	478	3,441	42	9	92	4	39
16 to 17 years	1,693	178	213	1,302	32	9	51	2	28
18 to 19 years	2,463	60	264	2,139	10	1	41	2	11
20 to 24 years	6,353	73	871	5,409	80	13	68	10	12
25 to 34 years	9,930	106	2,136	7,688	448	74	81	40	37
35 to 44 years	7,007	139	1,624	5,243	566	119	53	45	83
45 to 54 years	5,764	198	1,381	4,185	433	90	42	48	61
55 to 64 years	3,894	193	886	2,814	295	61	18	41	42
65 to 69 years	2,433	102	584	1,747	171	37	9	26	28
70 to 74 years	1,460	91	302	1,068	124	24	9	15	14
75 years and over	875	125	143	606	146	17	3	22	13

A-24. Employed persons by industry and occupation

[In thousands]

Industry	July 1980											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Total, 16 years and over:												
Agriculture	3,053	81	37	10	85	60	24	52	330	--	9	3,164
Mining	1,004	117	99	8	128	249	306	60	25	--	12	--
Construction	6,424	199	831	22	490	3,480	278	178	922	--	24	--
Manufacturing	21,416	2,451	1,751	550	2,619	4,208	7,706	735	996	--	400	--
Durable goods	12,774	1,669	966	203	1,544	2,776	4,439	363	589	--	224	--
Nondurable goods	8,642	782	786	347	1,075	1,432	3,267	371	407	--	176	--
Transportation and public utilities	6,445	641	669	61	1,568	1,373	195	1,298	477	--	162	--
Wholesale and retail trade	20,003	410	3,882	4,071	3,554	1,551	931	683	1,245	--	3,675	--
Wholesale trade	3,885	137	757	932	818	384	177	361	285	--	34	--
Retail trade	16,118	273	3,125	3,139	2,736	1,167	754	322	960	--	3,642	--
Finance, insurance, and real estate	5,943	351	1,114	1,215	2,799	114	3	8	101	--	239	--
Services	27,975	9,756	2,074	232	5,048	1,525	742	247	729	1,094	6,530	--
Private households	1,368	9	--	--	11	13	5	2	192	1,094	43	--
Other service industries	26,607	9,747	2,074	232	5,037	1,512	737	245	537	--	6,487	--
Public administration	5,524	1,137	688	8	1,961	255	51	57	218	--	1,150	--

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			
	July 1979				July 1980		Paid absences ²		Unpaid absences^{2}
			July 1979	July 1980			July 1979	July 1980	July 1979	July 1980
Total, 16 years and over	11,621	12,514	11,475	12,385	6,872	7,606	3,957	4,054
Vacation	9,305	10,226	9,233	10,147	6,156	6,979	2,700	2,780
Illness	1,356	1,228	1,326	1,201	549	424	677	673
Bad weather	52	47	37	39	--	--	--	--
Industrial dispute	110	136	109	136	--	--	--	--
All other reasons	799	876	770	862	167	203	580	601
Males, 16 years and over	5,740	6,180	5,625	6,094	3,852	4,188	1,415	1,512
Vacation	4,442	4,893	4,387	4,839	3,425	3,823	756	833
Illness	815	724	790	702	335	260	390	377
All other reasons ³	483	571	448	553	93	106	269	303
Females, 16 years and over	5,881	6,325	5,850	6,291	3,019	3,419	2,542	2,543
Vacation	4,863	5,333	4,845	5,308	2,731	3,157	1,944	1,949
Illness	541	504	537	499	214	166	287	297
All other reasons ³	478	488	469	483	74	97	311	298

¹Excludes private household.

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

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

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

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

Hours of work	July 1980					
	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total, 16 years and over	86,073	82,349	3,724	100.0	100.0	100.0
1-34 hours	20,210	19,169	1,040	23.5	23.3	27.9
1-4 hours	727	684	43	.8	.8	1.2
5-14 hours	3,054	2,830	224	3.5	3.4	6.0
15-20 hours	10,156	9,611	545	11.8	11.7	14.6
30-34 hours	6,273	6,044	228	7.3	7.3	6.1
35 hours and over	65,863	63,180	2,683	76.5	76.7	72.1
35-39 hours	6,405	6,275	130	7.4	7.6	3.5
40 hours	37,926	37,373	553	44.1	45.4	14.9
41 hours and over	21,532	19,532	2,000	25.0	23.7	53.7
41 to 48 hours	7,875	7,652	223	9.1	9.3	6.0
49 to 59 hours	7,338	6,821	517	8.5	8.3	13.9
60 hours and over	6,319	5,059	1,260	7.3	6.1	33.8
Average hours, total at work	39.1	38.7	47.7	--	--	--
Average hours, workers on full-time schedules	43.1	42.6	56.4	--	--	--

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	July 1980					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 16 years and over . . .	20,210	6,714	13,496	19,169	6,402	12,768
Economic reasons	5,230	1,964	3,266	4,913	1,829	3,084
Slack work	2,532	1,570	962	2,338	1,450	888
Material shortages or repairs to plant and equipment	76	76	--	75	75	--
New job started during week	212	212	--	202	202	--
Job terminated during week	106	106	--	104	104	--
Could find only part-time work	2,304	--	2,304	2,196	--	2,196
Other reasons	14,980	4,751	10,229	14,256	4,572	9,684
Does not want, or unavailable for, full-time work	9,040	--	8,040	7,633	--	7,633
Vacation	1,749	1,749	--	1,715	1,715	--
Illness	1,252	1,095	157	1,204	1,061	143
Bad weather	200	200	--	155	155	--
Industrial dispute	24	24	--	24	24	--
Legal or religious holiday	225	225	--	224	224	--
Full time for this job	1,445	--	1,445	1,379	--	1,379
All other reasons	2,043	1,456	587	1,922	1,393	529
Average hours:						
Economic reasons	21.7	23.9	20.4	21.8	24.0	20.5
Other reasons	21.9	26.0	20.0	22.0	26.1	20.1
Worked 30 to 34 hours:						
Economic reasons	1,567	826	741	1,485	770	715
Other reasons	4,706	2,484	2,222	4,559	2,406	2,153

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

(Numbers in thousands)

Industry	July 1980								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules						
Total				40 hours or less	41 to 48 hours	49 hours or more				
Total, 16 years and over¹	82,349	4,913	9,684	67,752	48,220	7,652	11,880	38.7	42.6	
Wage and salary workers	75,589	4,430	8,465	62,694	45,893	7,160	9,641	38.5	42.1	
Construction	4,820	412	203	4,205	3,142	433	630	39.1	41.7	
Manufacturing	17,725	716	437	16,572	12,243	2,123	2,206	40.5	41.7	
Durable goods	10,549	329	159	10,061	7,509	1,241	1,311	40.9	41.6	
Nondurable goods	7,176	386	278	6,512	4,734	883	895	40.1	41.8	
Transportation and public utilities	5,418	156	205	5,057	3,585	591	881	41.6	43.1	
Wholesale and retail trade	16,424	1,531	3,247	11,646	7,699	1,657	2,290	36.8	43.1	
Finance, insurance, and real estate	5,090	102	480	4,508	3,451	449	608	38.9	41.2	
Service industries	20,383	1,325	3,631	15,427	11,814	1,424	2,189	36.4	41.7	
Private households	1,217	249	551	417	293	42	82	24.7	44.5	
All other industries	19,166	1,076	3,080	15,010	11,521	1,382	2,107	37.1	41.6	
Public administration	4,987	166	245	4,576	3,590	390	596	40.0	41.7	
Self-employed workers	6,303	461	1,041	4,801	2,175	474	2,152	41.3	48.6	
Unpaid family workers	457	22	178	257	151	19	87	35.7	46.1	

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	July 1980							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	82,349	4,913	9,684	67,752	48,220	19,532	38.7	42.6
16 to 21 years	13,354	1,967	2,361	8,526	6,785	1,741	33.7	40.9
16 to 19 years	8,265	1,489	2,286	4,490	3,675	815	31.3	40.5
16 to 17 years	3,436	805	1,411	1,220	1,022	198	26.7	40.0
18 to 19 years	4,829	684	875	3,270	2,653	617	34.7	40.6
20 years and over	74,035	3,424	7,397	63,264	44,547	18,717	39.5	42.7
20 to 24 years	12,614	911	1,209	10,494	7,954	2,540	38.2	41.4
25 years and over	61,470	2,514	6,189	52,767	36,590	16,177	39.8	43.0
25 to 44 years	37,357	1,565	3,034	32,758	22,491	10,267	40.4	43.1
45 to 64 years	21,898	838	2,048	19,012	13,399	5,613	39.9	42.8
65 years and over	2,215	111	1,106	998	701	297	28.5	42.8
Males, 16 years and over	48,270	2,504	2,851	42,915	27,841	15,074	41.3	43.8
16 to 21 years	6,961	1,002	1,198	4,761	3,587	1,174	35.1	41.6
16 to 19 years	4,323	765	1,302	2,556	2,011	545	32.7	40.9
16 to 17 years	1,837	437	674	725	588	137	28.0	40.4
18 to 19 years	2,486	327	328	1,831	1,423	408	36.2	41.1
20 years and over	43,947	1,738	1,850	40,359	25,830	14,529	42.1	44.0
20 to 24 years	6,698	457	403	5,838	4,073	1,765	40.0	42.6
25 years and over	37,249	1,282	1,446	34,521	21,757	12,764	42.5	44.2
25 to 44 years	22,467	809	443	21,215	13,165	8,050	43.2	44.4
45 to 64 years	13,456	416	426	12,616	8,129	4,487	42.6	44.1
65 years and over	1,325	55	578	692	465	227	30.7	43.1
Females, 16 years and over	34,079	2,410	6,832	24,837	20,378	4,459	35.0	40.4
16 to 21 years	6,393	966	1,663	3,764	3,197	567	32.1	40.0
16 to 19 years	3,942	723	1,285	1,934	1,662	272	29.9	39.9
16 to 17 years	1,599	366	737	496	433	63	25.2	39.3
18 to 19 years	2,343	357	547	1,439	1,230	209	33.0	40.1
20 years and over	30,137	1,687	5,548	22,902	18,714	4,188	35.7	40.4
20 to 24 years	5,916	454	805	4,657	3,882	775	36.2	39.9
25 years and over	24,221	1,231	4,743	18,247	14,835	3,412	35.5	40.6
25 to 44 years	14,890	755	2,592	11,543	9,326	2,217	36.1	40.6
45 to 64 years	8,441	420	1,623	6,398	5,272	1,126	35.6	40.3
65 years and over	890	55	528	307	238	69	25.3	42.0
RACE								
White	72,842	4,073	8,727	60,037	41,808	18,229	38.9	42.8
Males	43,236	2,084	2,504	38,648	24,491	14,157	41.6	44.0
Females	29,606	1,993	6,223	21,390	17,318	4,072	34.9	40.5
Black and other	9,507	834	956	7,717	6,413	1,304	37.2	40.9
Males	5,034	419	347	4,268	3,351	917	38.8	41.9
Females	4,474	416	609	3,449	3,062	387	35.5	39.7
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	31,747	519	1,105	29,723	18,481	11,242	42.8	44.3
Widowed, divorced, or separated	3,964	228	195	3,541	2,281	1,260	41.8	44.3
Single (never married)	12,559	1,356	1,551	9,652	7,081	2,571	37.5	42.3
Females, 16 years and over:								
Married, spouse present	17,437	905	3,972	12,560	10,401	2,159	34.6	40.2
Widowed, divorced, or separated	6,614	395	904	5,315	4,164	1,151	36.9	40.9
Single (never married)	10,029	1,110	1,956	6,963	5,814	1,149	34.4	40.3

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	July 1980								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 40 hours	40 hours or more		
Total, 16 years and over	82,987	4,957	9,786	68,204	48,436	7,700	12,068	38.7	42.6
White-collar workers	43,833	1,581	5,316	36,936	25,675	4,029	7,232	39.3	42.8
Professional and technical	11,880	298	1,190	10,392	7,328	1,114	1,950	39.7	42.5
Managers and administrators, except farm	9,988	147	478	9,363	4,697	1,217	3,449	45.1	46.8
Sales workers	5,683	410	1,196	4,077	2,545	502	1,030	36.8	43.6
Clerical workers	16,282	724	2,451	13,107	11,110	1,195	802	36.3	40.0
Blue-collar workers	27,208	2,399	1,481	23,706	17,010	2,953	3,745	39.6	42.4
Craft and kindred workers	11,354	621	369	10,364	7,174	1,375	1,815	40.9	42.7
Operatives, except transport	8,411	645	343	7,443	5,771	888	784	39.2	41.2
Transport equipment operatives	2,878	186	139	2,553	1,530	327	696	42.5	45.2
Nonfarm laborers	4,625	647	630	3,348	2,534	363	451	35.6	41.6
Service workers	11,866	1,317	2,989	7,560	5,751	718	1,091	34.2	42.2
Private household	1,013	156	469	388	279	40	69	26.4	43.9
Other service workers	10,852	1,161	2,520	7,171	5,470	678	1,023	35.0	42.1
Males, 16 years and over	48,740	2,575	2,905	43,260	27,994	5,371	9,895	41.3	43.8
White-collar workers	21,227	479	1,080	19,668	11,556	2,407	5,705	43.1	44.9
Professional and technical	7,354	133	365	6,856	4,537	736	1,583	41.9	43.5
Managers and administrators, except farm	7,439	95	197	7,147	3,295	921	2,931	46.6	47.7
Sales workers	3,187	135	274	2,778	1,520	385	873	41.6	44.9
Clerical workers	3,247	117	245	2,885	2,203	365	317	39.5	41.7
Blue-collar workers	22,856	1,662	1,099	20,095	13,963	2,605	3,527	40.2	42.8
Craft and kindred workers	10,693	573	280	9,840	6,755	1,323	1,762	41.2	42.8
Operatives, except transport	5,260	324	160	4,776	3,486	623	667	40.5	42.3
Transport equipment operatives	2,746	172	106	2,468	1,471	324	673	42.8	45.2
Nonfarm laborers	4,157	592	553	3,012	2,252	334	426	35.7	41.8
Service workers	4,657	434	726	3,497	2,475	359	663	38.0	43.6
Private household	26	8	5	13	10	--	3	30.9	45.4
Other service workers	4,631	425	721	3,485	2,464	359	662	38.0	43.6
Females, 16 years and over	34,247	2,421	6,880	24,946	20,448	2,328	2,170	35.0	40.4
White-collar workers	22,607	1,101	4,235	17,271	14,124	1,621	1,526	35.7	40.4
Professional and technical	4,526	166	826	3,534	2,789	378	367	36.1	40.7
Managers and administrators, except farm	2,549	54	282	2,213	1,399	296	518	41.0	44.1
Sales workers	2,497	275	922	1,300	1,027	117	156	30.7	40.7
Clerical workers	13,035	607	2,206	10,222	8,907	830	485	35.5	39.5
Blue-collar workers	4,431	437	382	3,612	3,047	348	217	36.5	39.6
Craft and kindred workers	660	47	90	523	417	52	54	36.4	40.3
Operatives, except transport	3,171	321	183	2,667	2,286	264	117	36.9	39.4
Transport equipment operatives	132	14	32	86	60	3	23	35.1	43.6
Nonfarm laborers	469	55	77	337	284	28	25	34.1	39.7
Service workers	7,209	883	2,263	4,063	3,277	359	427	31.8	40.9
Private household	987	147	464	376	270	40	66	26.3	43.9
Other service workers	6,222	736	1,800	3,686	3,006	319	361	32.6	40.6

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

(Numbers in thousands)

Employment status	July 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,561	3,845	3,716	6,274	3,199	3,076	1,286	646	640
Civilian labor force	2,246	1,389	857	1,918	1,190	728	329	199	130
Employed	1,852	1,118	734	1,641	995	645	211	123	89
Agriculture	327	263	64	305	247	58	21	16	5
Nonagricultural industries	1,525	855	670	1,335	748	587	190	107	83
Unemployed	394	271	123	277	194	83	117	76	41
Unemployment rate	17.5	19.5	14.4	14.4	16.3	11.4	35.6	38.2	31.5
Not in labor force	5,315	2,456	2,859	4,357	2,009	2,348	958	447	511
Keeping house	344	28	315	270	25	244	74	3	71
Going to school	403	215	187	267	140	127	136	76	61
Unable to work	4	--	4	4	--	4	1	--	1
All other reasons	4,564	2,213	2,351	3,817	1,843	1,973	747	369	378

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

Characteristics	July 1980					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,852	1,118	734	100.0	100.0	100.0
Nonagricultural industries	1,525	855	670	82.3	76.5	91.3
Wage and salary workers	1,407	773	633	75.9	69.2	86.2
Private household workers	429	137	291	23.2	12.3	39.6
Government workers	212	120	92	11.4	10.7	12.5
Other wage and salary workers	766	516	250	41.3	40.2	34.1
Self-employed workers	98	65	32	5.3	5.8	4.4
Unpaid family workers	21	16	5	1.1	1.4	.7
Agriculture	327	263	64	17.6	23.5	8.7
Wage and salary workers	221	170	51	11.9	15.2	6.9
Self-employed workers	32	28	4	1.7	2.5	.5
Unpaid family workers	74	65	9	4.0	5.8	1.2
OCCUPATION						
Total	1,852	1,118	734	100.0	100.0	100.0
White-collar workers	369	232	137	19.9	20.8	18.7
Professional and technical	28	18	9	1.5	1.6	1.2
Managers and administrators, except farm	2	2	--	.1	.2	--
Sales workers	231	178	53	12.5	15.9	7.2
Clerical workers	108	33	75	5.8	3.0	10.2
Blue-collar workers	516	462	55	27.9	41.4	7.5
Craft and kindred workers	53	49	4	2.9	4.4	.5
Operatives, except transport	54	41	13	2.9	3.7	1.8
Transport equipment operatives	8	8	--	.4	.7	--
Nonfarm laborers	402	364	38	21.7	32.6	5.2
Service workers	695	212	482	37.5	19.0	65.7
Private household workers	302	16	285	16.3	1.4	36.8
Other service workers	393	196	197	21.2	17.5	26.8
Farm workers	272	212	60	14.7	19.0	8.2
Farmers and farm managers	6	2	4	.3	.2	.5
Farm laborers and supervisors	265	210	55	14.3	18.8	7.6

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1979						1980						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
Total, 16 years and over	5.7	5.9	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0	7.8	7.7	7.8
16 to 19 years	15.8	16.6	16.2	16.4	15.9	16.0	16.3	16.5	15.9	16.2	19.2	18.5	19.0
16 to 17 years	17.3	18.5	16.9	18.4	17.3	18.0	19.0	18.7	17.4	18.7	21.7	19.8	20.9
18 to 19 years	14.5	15.4	15.6	15.0	14.7	14.5	14.0	15.1	14.7	14.4	17.7	18.0	17.7
20 to 24 years	9.1	9.3	9.2	9.6	8.8	9.8	10.1	9.5	9.7	11.4	12.7	12.4	12.3
25 years and over	3.9	4.0	3.9	4.0	4.0	3.8	4.2	4.1	4.4	5.0	5.5	5.5	5.7
25 to 54 years	4.0	4.2	4.1	4.2	4.3	4.1	4.4	4.5	4.7	5.4	5.9	6.0	6.1
55 years and over	3.2	3.1	2.9	3.0	2.7	2.7	3.5	2.8	2.8	3.4	3.6	3.4	3.5
Males, 16 years and over	5.1	5.2	5.2	5.2	5.2	5.2	5.7	5.5	5.7	6.7	7.7	7.8	7.8
16 to 19 years	15.4	16.3	16.1	15.7	15.8	15.6	16.2	15.6	14.8	16.1	19.7	19.5	19.7
16 to 17 years	16.1	18.0	16.7	17.1	17.8	17.9	19.0	18.0	15.9	18.3	22.0	21.8	20.8
18 to 19 years	14.8	15.1	15.3	14.4	14.0	13.6	13.9	14.1	14.0	14.2	17.9	19.3	18.7
20 to 24 years	8.8	8.8	8.8	9.5	8.4	9.4	10.4	9.9	10.4	12.3	13.7	13.8	13.4
25 years and over	3.3	3.4	3.3	3.4	3.5	3.2	3.7	3.6	3.9	4.7	5.3	5.5	5.6
25 to 54 years	3.4	3.5	3.6	3.5	3.8	3.4	3.8	3.8	4.2	5.0	5.7	5.8	6.1
55 years and over	3.3	3.1	2.8	2.8	2.6	2.6	3.5	2.6	2.7	3.4	3.5	3.8	3.9
Females, 16 years and over	6.6	7.0	6.6	6.9	6.6	6.8	6.8	6.8	6.8	7.3	7.9	7.5	7.8
16 to 19 years	16.2	17.0	16.4	17.2	16.1	16.4	16.3	17.6	17.3	16.3	18.7	17.3	18.2
16 to 17 years	18.6	19.0	17.2	19.8	16.7	18.0	19.1	19.5	19.2	19.1	21.4	17.6	20.9
18 to 19 years	14.2	15.7	15.9	15.6	15.5	15.5	14.2	16.2	15.6	14.6	17.5	16.6	16.6
20 to 24 years	9.4	9.8	9.6	9.7	9.3	10.2	9.8	9.1	9.0	10.2	11.6	10.8	11.1
25 years and over	4.7	4.9	4.6	4.9	4.7	4.7	4.9	4.9	5.0	5.5	5.7	5.6	5.7
25 to 54 years	5.0	5.3	5.0	5.2	5.0	5.1	5.2	5.4	5.5	6.0	6.1	6.1	6.2
55 years and over	3.1	3.2	2.9	3.4	2.9	2.9	3.4	3.0	2.9	3.4	3.6	2.8	3.0

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

(Numbers in thousands)

Reason for unemployment	1979						1980						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	2,526	2,680	2,632	2,731	2,729	2,728	2,988	2,907	3,047	3,611	4,301	4,625	4,558
On layoff	797	915	855	929	987	944	1,019	1,031	1,129	1,424	1,944	2,117	1,975
Other job losers	1,729	1,765	1,777	1,802	1,742	1,784	1,969	1,876	1,918	2,188	2,357	2,508	2,583
Job leavers	846	875	825	835	845	800	779	813	788	926	992	898	857
Reentrants	1,762	1,768	1,760	1,762	1,698	1,771	1,797	1,784	1,803	1,967	2,015	1,822	1,868
New entrants	726	745	801	804	736	858	811	827	805	743	884	863	930
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	43.1	44.0	43.7	44.5	45.4	44.3	46.9	45.9	47.3	49.8	52.5	56.3	55.5
On layoff	13.6	15.0	14.2	15.2	16.4	15.3	16.0	16.3	17.5	19.6	23.7	25.8	24.0
Other job losers	29.5	29.0	29.5	29.4	29.0	29.0	30.9	29.6	29.8	30.2	28.8	30.6	31.5
Job leavers	14.4	14.4	13.7	13.6	14.1	13.0	12.2	12.8	12.2	12.8	12.1	10.9	10.4
Reentrants	30.1	29.4	29.2	28.7	28.3	28.8	28.2	28.2	28.0	27.1	24.6	22.2	22.7
New entrants	12.4	12.2	13.3	13.1	12.3	13.9	12.7	13.1	12.5	10.3	10.8	10.5	11.3
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.5	2.6	2.5	2.6	2.6	2.6	2.9	2.8	2.9	3.5	4.1	4.4	4.3
On layoff .....	.8	.8	.8	.8	.8	.8	.7	.8	.8	.9	.9	.9	.8
Other job losers	1.7	1.7	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.9	1.9	1.7	1.8
Job leavers .....	.7	.7	.8	.8	.7	.8	.8	.8	.8	.7	.8	.8	.9

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Selected categories	1979						1980						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
CHARACTERISTICS													
Total, 16 years and over	97,184	97,004	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154	96,988	96,537	96,996
Married men, spouse present	39,176	39,180	39,198	39,124	38,845	38,924	38,749	38,955	38,745	38,342	38,147	38,193	37,999
Married women, spouse present	22,908	22,869	22,937	22,919	22,940	23,027	23,111	23,178	23,202	23,080	23,155	23,144	23,097
OCCUPATION													
White-collar workers	49,536	49,663	49,816	49,738	49,912	49,911	50,313	50,448	50,302	50,405	50,606	50,861	51,114
Professional and technical	15,057	15,068	15,141	15,057	15,131	15,272	15,337	15,444	15,397	15,542	15,551	15,712	15,741
Managers and administrators, except farm	10,612	10,698	10,659	10,639	10,617	10,535	10,608	10,971	10,755	10,745	10,882	10,911	11,046
Sales workers	6,163	6,145	6,181	6,261	6,362	6,346	6,452	6,185	6,113	5,988	6,022	5,981	6,128
Clerical workers	17,704	17,752	17,835	17,781	17,802	17,758	17,915	17,848	18,037	18,129	18,152	18,256	18,199
Blue-collar workers	32,051	31,849	32,209	32,205	32,110	32,302	31,882	31,754	31,670	31,127	30,681	30,243	30,149
Craft and kindred workers	12,876	12,761	12,993	13,001	12,925	13,041	12,814	12,728	12,767	12,773	12,523	12,301	12,382
Operatives, except transport	10,884	10,909	10,964	10,967	10,963	11,042	10,678	10,661	10,579	10,408	10,336	10,131	10,134
Transport equipment operatives	3,627	3,604	3,617	3,593	3,528	3,635	3,616	3,571	3,558	3,483	3,421	3,395	3,335
Nonfarm laborers	4,664	4,575	4,635	4,644	4,594	4,584	4,774	4,795	4,767	4,463	4,402	4,416	4,299
Service workers	12,766	12,621	12,859	12,937	12,899	12,970	12,979	13,080	12,981	13,034	12,932	12,930	13,045
Farm workers	2,678	2,707	2,722	2,695	2,718	2,694	2,660	2,764	2,733	2,658	2,745	2,606	2,689
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,419	1,384	1,399	1,381	1,475	1,451	1,428	1,417	1,449	1,370	1,405	1,365	1,352
Self-employed workers	1,550	1,614	1,642	1,602	1,622	1,596	1,554	1,648	1,600	1,591	1,662	1,590	1,631
Unpaid family workers	291	310	325	313	310	310	293	283	300	281	289	269	292
Nonagricultural industries:													
Wage and salary workers	86,454	86,421	86,912	86,982	87,020	87,384	87,578	87,419	87,221	86,741	86,631	86,257	86,407
Government	15,393	15,279	15,407	15,423	15,358	15,397	15,414	15,540	15,622	15,663	15,799	15,891	15,760
Private industries	71,061	71,142	71,505	71,559	71,662	71,987	72,163	71,879	71,599	71,072	70,832	70,365	70,647
Private households	1,219	1,211	1,313	1,261	1,211	1,228	1,132	1,178	1,115	1,123	1,206	1,219	1,245
Other industries	69,842	69,931	70,192	70,298	70,451	70,759	71,031	70,702	70,484	69,949	69,625	69,147	69,402
Self-employed workers	6,752	6,689	6,731	6,812	6,781	6,737	6,752	6,899	6,825	6,813	6,648	6,666	6,765
Unpaid family workers	519	450	449	430	417	409	379	397	376	363	411	445	441
PERSONS AT WORK¹													
Nonagricultural industries	88,769	88,855	88,723	88,638	88,617	89,180	89,454	88,985	88,585	87,660	87,680	87,910	87,454
Full-time schedules	72,915	73,053	73,159	73,204	72,997	73,137	73,223	73,110	72,749	71,807	71,224	71,206	70,649
Part-time for economic reasons	3,274	3,298	3,167	3,315	3,392	3,519	3,513	3,406	3,418	3,816	4,349	3,999	4,113
Usually work full-time	1,334	1,401	1,273	1,354	1,413	1,491	1,549	1,380	1,463	1,709	2,064	1,781	1,847
Usually work part-time	1,940	1,897	1,894	1,961	1,979	2,028	1,964	2,026	1,955	2,107	2,285	2,217	2,266
Part time for noneconomic reasons	12,580	12,504	12,397	12,119	12,228	12,524	12,718	12,469	12,418	12,037	12,106	12,706	12,692

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

HOUSEHOLD DATA

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

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed		Percent of labor force	
							Number		Percent of labor force	
July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	July 1979	July 1980	
VETERANS¹										
Total, 20 years and over	8,541	8,613	8,163	8,233	7,849	7,652	314	581	3.8	7.1
20 to 24 years	548	328	509	318	450	263	59	55	11.6	17.3
25 to 29 years	7,140	7,280	6,923	7,052	6,683	6,551	240	501	3.5	7.1
30 to 34 years	1,945	1,702	1,869	1,609	1,773	1,409	96	200	5.1	12.4
35 to 39 years	3,613	3,575	3,505	3,485	3,399	3,278	106	207	3.0	5.9
40 years and over	1,592	2,003	1,549	1,958	1,511	1,864	38	94	2.5	4.8
40 years and over	953	1,005	731	863	716	838	15	25	2.1	2.9
NONVETERANS²										
Total, 25 to 39 years	14,609	15,526	13,924	14,794	13,406	13,840	518	954	3.7	6.4
25 to 29 years	6,683	7,111	6,360	6,753	6,098	6,196	262	557	4.1	8.2
30 to 34 years	4,188	4,603	4,000	4,406	3,855	4,147	145	259	3.6	5.9
35 to 39 years	3,738	3,812	3,564	3,635	3,453	3,497	111	138	3.1	3.8

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

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

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
-	TOTAL	90,914	90,018	90,849	90,975	89,682	-	-	-	-	-
-	PRIVATE SECTOR	74,834	74,659	74,293	74,587	74,121	61,242	61,005	60,458	60,655	60,216
-	MINING	971	979	1,024	1,046	1,030	729	733	765	782	763
10	METAL MINING	102.2	103.7	105.1	106.6	-	78.4	79.4	79.8	80.5	-
101	Iron ores	24.9	25.2	22.6	22.1	-	20.0	20.2	17.6	17.0	-
102	Copper ores	33.3	33.9	35.6	36.4	-	25.6	26.1	27.7	28.2	-
11, 12	COAL MINING	264.5	263.7	258.8	262.2	-	220.1	219.2	214.0	216.6	-
12	BITUMINOUS COAL AND LIGNITE MINING	261.3	260.5	255.6	259.0	-	217.3	216.4	211.2	213.7	-
13	OIL AND GAS EXTRACTION	476.1	482.3	537.1	553.7	-	328.1	332.2	375.0	387.8	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	200.5	202.9	213.7	221.6	-	95.3	95.9	99.5	104.0	-
138	Oil and gas field services	275.6	279.4	323.4	332.1	-	232.8	236.3	275.5	283.8	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	128.4	128.8	122.9	123.7	-	102.4	102.5	96.5	97.1	-
142	Crushed and broken stone	43.3	43.0	40.4	40.9	-	36.6	36.3	33.6	33.9	-
144	Sand and gravel	40.9	41.6	37.4	37.7	-	-	-	-	-	-
147	Chemical and fertilizer minerals	24.7	24.7	25.5	25.5	-	-	-	-	-	-
-	CONSTRUCTION	4,708	4,813	4,471	4,603	4,631	3,793	3,893	3,526	3,647	3,667
15	GENERAL BUILDING CONTRACTORS	1,345.8	1,372.8	1,214.2	1,259.5	-	1,056.2	1,083.6	933.1	975.5	-
152	Residential building construction	663.3	671.6	561.9	597.0	-	506.7	516.9	412.5	446.3	-
153	Operative builders	91.1	91.2	70.5	70.2	-	60.4	60.2	42.1	41.6	-
154	Nonresidential building construction	591.4	610.0	581.8	592.3	-	489.1	506.5	487.5	487.6	-
16	HEAVY CONSTRUCTION CONTRACTORS	1,015.2	1,031.2	911.2	946.9	-	855.3	873.1	740.0	773.8	-
161	Highway and street construction	331.0	339.6	286.2	306.1	-	290.0	297.9	245.6	265.8	-
162	Heavy construction, except highway	684.2	691.6	625.0	640.8	-	565.3	575.2	494.4	508.0	-
17	SPECIAL TRADE CONTRACTORS	2,346.5	2,408.5	2,345.8	2,396.4	-	1,881.6	1,936.0	1,853.1	1,897.6	-
171	Plumbing, heating, air conditioning	556.4	569.4	560.8	571.7	-	423.5	434.0	419.7	428.1	-
172	Painting, paper hanging, decorating	161.1	171.7	158.9	167.7	-	136.1	146.4	134.3	142.8	-
173	Electrical work	401.1	413.8	413.2	420.2	-	314.6	326.0	319.0	325.1	-
174	Masonry, stonework, and plastering	375.6	380.7	378.1	382.8	-	328.7	332.9	325.3	330.0	-
175	Carpentering and flooring	132.2	137.0	118.9	121.1	-	103.1	107.3	88.9	91.5	-
176	Roofing and sheet metal work	172.4	176.9	172.1	175.2	-	139.9	144.5	138.6	141.7	-
-	MANUFACTURING	21,331	21,054	20,250	20,187	19,663	15,328	15,026	14,172	14,080	13,617
24, 25, 32-39	DURABLE GOODS	12,965	12,797	12,150	12,050	11,723	9,299	9,105	8,409	8,293	8,005
20-23, 26-31	NONDURABLE GOODS	8,366	8,257	8,100	8,137	7,940	6,029	5,921	5,763	5,787	5,612
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	791.3	785.4	654.8	669.2	668.2	676.9	671.4	544.1	558.3	557.2
241	Logging camps and logging contractors	92.8	94.4	79.7	85.7	-	77.4	79.2	64.5	70.5	-
242	Sawmills and planing mills	243.8	244.0	205.5	209.8	-	218.4	218.3	181.3	185.6	-
2421	Sawmills and planing mills, general	202.4	203.4	168.4	174.1	-	181.9	182.4	148.6	154.3	-
2426	Hardwood dimension and flooring	34.3	33.4	29.8	28.6	-	30.1	29.3	25.9	24.7	-
243	Millwork, plywood, and structural members	231.4	228.0	183.3	189.1	-	195.0	192.1	148.8	154.3	-
2431	Millwork	77.8	76.5	61.8	63.4	-	63.4	62.3	48.3	49.8	-
2434	Wood kitchen cabinets	55.5	53.9	45.7	43.9	-	46.9	45.5	37.7	35.6	-
2436	Hardwood veneer and plywood	28.5	27.6	25.3	25.2	-	25.4	24.5	22.2	22.2	-
2436	Softwood veneer and plywood	51.0	50.8	36.7	42.5	-	44.5	44.4	30.9	36.7	-
244	Wooden containers	48.6	48.1	44.0	43.7	-	42.8	42.5	38.1	37.8	-
245	Wood buildings and mobile homes	89.0	88.1	62.6	61.0	-	71.2	70.4	45.6	44.2	-
2451	Mobile homes	60.8	60.0	44.2	43.3	-	50.6	49.9	33.5	32.4	-
249	Miscellaneous wood products	85.7	82.8	79.7	79.9	-	72.1	68.9	65.8	65.9	-
25	FURNITURE AND FIXTURES	496.1	486.5	469.1	458.8	432.7	403.7	394.5	377.7	366.5	343.4
261	Household furniture	328.8	318.8	307.2	295.6	-	277.1	267.6	257.0	245.3	-
2611	Wood household furniture	148.7	141.8	141.4	136.2	-	129.9	123.7	122.6	117.7	-
2612	Upholstered household furniture	102.1	99.5	94.1	90.9	-	84.6	82.0	77.4	74.1	-
2614	Metal household furniture	30.8	30.0	29.3	26.3	-	24.6	23.7	23.5	20.4	-
2615	Mattresses and bedsprings	31.9	30.9	27.4	27.4	-	24.7	23.6	20.5	20.6	-
252	Office furniture	48.6	49.0	49.6	48.9	-	38.6	39.0	38.9	38.1	-
263	Public building and related furniture	26.1	25.8	24.8	24.8	-	19.8	19.6	18.4	18.3	-
264	Partitions and fixtures	65.5	65.3	60.4	62.7	-	49.6	49.3	44.7	46.4	-
269	Miscellaneous furniture and fixtures	27.1	27.6	27.1	26.8	-	18.6	19.0	18.7	18.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 p
32	STONE, CLAY, AND GLASS PRODUCTS	732.0	726.0	668.1	666.0	659.7	580.9	573.9	518.4	515.6	509.7
321	Flat glass	20.5	19.5	16.7	16.7	-	16.0	14.9	12.6	12.5	-
322	Glass and glassware, pressed or blown	134.6	133.4	127.9	127.0	-	115.4	114.1	109.0	108.1	-
3221	Glass containers	75.9	75.4	69.5	69.5	-	66.8	66.3	61.0	61.1	-
3229	Pressed and blown glass, nec	58.7	58.0	58.4	57.5	-	48.6	47.8	48.0	47.0	-
323	Products of purchased glass	47.5	46.9	44.6	43.1	-	35.1	34.2	32.0	30.9	-
324	Cement, hydraulic	33.7	33.6	31.6	32.8	-	27.2	27.0	25.3	26.3	-
325	Structural clay products	53.6	52.8	44.9	44.6	-	42.0	41.1	33.7	33.4	-
326	Pottery and related products	48.1	47.0	45.5	44.9	-	40.4	39.3	37.5	37.1	-
327	Concrete, gypsum, and plaster products	227.0	227.3	204.3	207.0	-	178.9	178.8	157.6	160.2	-
3271	Concrete block and brick	24.9	24.8	21.5	21.7	-	17.9	17.7	14.9	15.1	-
3272	Concrete products, nec	74.6	74.9	66.1	67.5	-	57.4	57.8	49.8	51.0	-
3273	Ready-mixed concrete	104.9	105.0	96.0	97.2	-	85.0	84.7	76.2	77.5	-
329	Misc. nonmetallic mineral products	153.8	152.7	140.2	138.0	-	115.3	114.0	100.6	97.5	-
3291	Abrasive products	30.3	30.0	29.6	29.3	-	20.8	20.7	19.9	19.4	-
3292	Asbestos products	23.3	22.6	18.2	17.5	-	18.2	17.6	13.5	12.9	-
3296	Mineral wool	33.6	33.6	31.5	30.7	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,281.1	1,267.4	1,149.8	1,112.8	1,046.6	1,011.9	994.5	882.8	846.1	790.9
331	Blast furnace and basic steel products	585.5	583.7	519.8	495.6	-	465.0	462.3	402.2	377.7	-
3312	Blast furnaces and steel mills	491.2	491.4	436.5	414.4	-	391.3	390.8	339.0	316.2	-
3317	Steel pipe and tubes	31.1	30.7	27.6	27.2	-	24.6	24.0	21.0	20.7	-
332	Iron and steel foundries	247.9	241.0	208.7	199.2	-	203.3	195.9	166.9	158.4	-
3321	Gray iron foundries	153.4	148.1	121.8	116.5	-	127.9	121.9	99.1	94.2	-
3322	Malleable iron foundries	22.1	21.7	17.0	15.2	-	17.7	17.3	13.0	11.4	-
3326	Steel foundries, nec	60.3	59.1	57.5	54.9	-	48.4	47.3	45.4	43.4	-
333	Primary nonferrous metals	72.6	72.8	71.7	72.2	-	56.5	56.6	54.9	55.4	-
3334	Primary aluminum	37.0	37.1	36.5	37.0	-	29.8	29.8	28.7	29.2	-
335	Nonferrous rolling and drawing	223.2	220.5	209.0	209.2	-	164.4	160.4	148.5	148.5	-
3351	Copper rolling and drawing	35.5	34.7	29.7	29.5	-	28.1	26.8	22.0	21.8	-
3353	Aluminum sheet, plate, and foil	37.8	37.6	36.9	36.5	-	29.0	28.8	28.1	27.6	-
3357	Nonferrous wire drawing and insulating	90.2	88.9	85.3	86.7	-	67.0	65.0	60.5	61.9	-
336	Nonferrous foundries	100.7	98.9	89.4	86.5	-	83.5	80.7	71.3	68.3	-
3361	Aluminum foundries	58.5	57.4	52.0	50.1	-	49.3	47.6	42.2	40.1	-
34	FABRICATED METAL PRODUCTS	1,746.8	1,711.8	1,619.8	1,593.1	1,515.7	1,325.8	1,290.4	1,196.5	1,173.7	1,102.9
341	Metal cans and shipping containers	82.7	82.1	77.3	76.2	-	70.4	69.6	65.2	64.1	-
3411	Metal cans	67.9	67.4	62.9	62.1	-	58.1	57.5	53.3	52.6	-
342	Cutlery, hand tools, and hardware	187.7	182.0	166.5	162.1	-	146.6	140.1	125.6	122.0	-
3423,5	Hand and edge tools, and hand saws and blades	65.7	63.8	59.1	58.5	-	51.8	49.7	45.3	44.8	-
3429	Hardware, nec	106.3	102.9	92.1	88.8	-	83.3	79.7	68.9	66.1	-
343	Plumbing and heating, except electric	76.2	74.3	68.3	65.8	-	56.3	54.8	48.1	46.1	-
3432	Plumbing fittings and brass goods	28.7	28.1	25.6	24.7	-	23.6	23.1	20.4	19.6	-
3433	Heating equipment, except electric	35.9	35.0	32.0	30.6	-	24.5	24.0	20.4	19.4	-
344	Fabricated structural metal products	528.4	528.4	511.3	510.2	-	373.0	372.6	352.0	351.0	-
3441	Fabricated structural metal	105.0	105.1	107.6	107.9	-	75.9	75.7	77.8	78.1	-
3442	Metal doors, sash, and trim	87.9	88.2	76.8	76.4	-	65.8	66.2	54.9	55.1	-
3443	Fabricated plate work (boiler shops)	150.4	150.4	149.0	148.7	-	97.5	97.2	93.7	93.0	-
3444	Sheet metal work	113.4	112.9	109.1	109.3	-	83.8	83.5	79.2	79.6	-
3446	Architectural metal work	31.3	31.2	32.0	31.9	-	22.7	22.6	22.6	22.3	-
345	Screw machine products, bolts, etc.	117.3	115.6	111.4	108.2	-	92.6	90.9	86.4	83.5	-
3451	Screw machine products	55.0	54.1	52.6	51.9	-	45.7	45.0	42.9	42.2	-
3452	Bolts, nuts, rivets, and washers	62.3	61.5	58.8	56.3	-	46.9	45.9	43.5	41.3	-
346	Metal forgings and stampings	313.6	296.7	260.7	254.5	-	253.5	236.8	203.4	197.9	-
3462	Iron and steel forgings	59.5	57.8	51.8	51.9	-	47.2	45.2	39.8	40.0	-
3465	Automotive stampings	120.9	108.6	84.0	81.9	-	101.6	89.3	66.8	65.4	-
3469	Metal stampings, nec	122.1	119.6	113.4	109.4	-	96.1	94.1	87.8	83.8	-
347	Metal services, nec	110.3	108.2	108.2	105.3	-	90.6	88.4	87.0	84.6	-
3471	Plating and polishing	75.3	73.3	72.3	70.8	-	62.4	60.5	58.7	57.6	-
3479	Metal coating and allied services	35.0	34.9	35.9	34.5	-	28.2	27.9	28.3	27.0	-
348	Ordnance and accessories, nec	65.1	64.6	61.5	61.7	-	45.1	44.4	41.1	41.3	-
3483	Ammunition, exc. for small arms, nec	28.5	28.3	27.3	27.5	-	19.7	19.4	18.5	18.5	-
349	Misc. fabricated metal products	265.5	259.9	254.6	249.1	-	197.7	192.8	187.7	183.2	-
3494	Valves and pipe fittings	105.8	105.0	104.6	102.9	-	73.7	72.6	72.1	71.1	-
3496	Misc. fabricated wire products	56.1	54.2	53.5	52.2	-	43.5	41.8	41.9	40.2	-
35	MACHINERY, EXCEPT ELECTRICAL	2,511.4	2,504.9	2,509.3	2,487.2	2,446.3	1,655.7	1,642.2	1,620.4	1,592.9	1,554.2
351	Engines and turbines	150.9	149.5	138.7	135.0	-	99.6	98.5	89.9	86.5	-
3511	Turbines and turbine generator sets	41.3	41.0	39.7	39.8	-	21.2	21.0	20.4	20.2	-
3519	Internal combustion engines, nec	109.6	108.5	99.0	95.2	-	78.4	77.5	69.5	66.3	-
352	Farm and garden machinery	187.8	185.6	175.9	169.4	-	132.9	130.7	122.7	115.4	-
3523	Farm machinery and equipment	164.2	162.3	155.9	152.0	-	116.4	114.4	109.3	104.8	-
353	Construction and related machinery	399.3	398.3	397.3	393.2	-	266.0	265.3	261.3	257.0	-
3531	Construction machinery	173.1	171.6	159.9	155.0	-	117.7	116.9	107.6	102.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery.....	34.4	34.3	34.9	35.1	-	21.8	21.5	21.6	21.9	-
3533	Oil field machinery.....	85.7	86.1	94.6	96.2	-	58.5	58.9	64.9	66.5	-
3535	Conveyers and conveying equipment.....	33.3	33.1	33.5	33.2	-	20.2	20.0	19.0	18.9	-
3537	Industrial trucks and tractors.....	39.6	39.7	38.6	37.9	-	27.4	27.6	25.8	25.1	-
354	Metalworking machinery.....	370.3	367.1	375.8	372.7	-	273.4	269.7	275.6	271.6	-
3541	Machine tools, metal cutting types.....	77.2	76.9	81.4	81.0	-	51.2	50.8	54.9	54.3	-
3542	Machine tools, metal forming types.....	27.2	27.3	27.7	27.5	-	17.9	17.8	18.1	17.8	-
3544	Special dies, tools, jigs, and fixtures.....	138.1	136.6	134.3	133.2	-	111.4	109.8	107.3	106.0	-
3545	Machine tool accessories.....	68.8	67.4	72.2	72.2	-	49.9	48.5	51.8	51.3	-
3546	Power driven hand tools.....	33.2	33.4	34.9	33.9	-	25.4	25.5	26.7	25.7	-
355	Special industry machinery.....	206.4	204.3	209.7	210.6	-	132.9	129.7	134.3	134.8	-
3551	Food products machinery.....	46.8	46.6	47.8	47.8	-	30.2	30.0	30.7	30.6	-
3552	Textile machinery.....	27.1	26.6	27.6	27.4	-	19.3	18.6	19.6	19.3	-
3555	Printing trades machinery.....	37.3	37.7	39.6	40.4	-	22.6	22.6	24.5	25.4	-
356	General industrial machinery.....	327.9	327.7	324.7	321.7	-	217.5	216.3	211.4	208.9	-
3561	Pumps and pumping equipment.....	64.0	63.9	62.5	61.5	-	38.9	38.6	37.1	36.2	-
3562	Ball and roller bearings.....	57.4	56.9	58.1	57.8	-	44.1	43.4	45.0	45.1	-
3563	Air and gas compressors.....	31.9	31.7	31.2	31.2	-	18.8	18.5	18.4	18.5	-
3564	Blowers and fans.....	42.2	42.4	42.1	41.3	-	27.1	27.4	25.6	24.5	-
3566	Speed changers, drives, and gears.....	26.6	26.8	26.6	26.2	-	18.3	18.2	18.1	17.8	-
3568	Power transmission equipment, nec.....	25.7	25.7	23.9	23.2	-	18.8	18.6	16.9	16.4	-
357	Office and computing machines.....	394.0	402.0	427.4	434.0	-	176.1	180.6	185.5	186.5	-
3573	Electronic computing equipment.....	316.3	323.7	349.0	355.6	-	129.9	134.0	141.0	142.4	-
358	Refrigeration and service machinery.....	190.8	186.6	173.3	166.5	-	136.3	131.5	119.1	113.7	-
3585	Refrigeration and heating equipment.....	131.5	128.1	115.6	109.4	-	95.2	91.2	79.7	74.7	-
359	Misc. machinery, except electrical.....	288.0	283.8	286.5	284.1	-	221.0	219.9	220.6	218.5	-
3592	Carburetors, pistons, rings, valves.....	43.3	42.3	40.7	39.3	-	34.6	33.6	32.3	30.7	-
3599	Machinery, except electrical, nec.....	240.7	241.5	245.8	244.8	-	186.4	186.3	188.3	187.8	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT.....	2,144.4	2,127.6	2,120.2	2,098.1	2,058.1	1,411.9	1,390.3	1,353.6	1,325.8	1,287.8
361	Electric distributing equipment.....	126.7	124.7	121.3	118.6	-	91.7	89.9	84.5	82.5	-
3612	Transformers.....	56.4	55.7	53.9	52.0	-	40.6	39.8	37.8	36.0	-
3613	Switchgear and switchboard apparatus.....	70.3	69.0	67.4	66.6	-	51.1	50.1	46.7	46.5	-
362	Electrical industrial apparatus.....	257.1	256.1	243.3	234.7	-	186.6	184.8	171.9	164.1	-
3621	Motors and generators.....	134.1	132.6	122.4	115.9	-	102.2	100.3	91.5	85.6	-
3622	Industrial controls.....	73.0	73.4	71.7	70.0	-	48.0	48.1	45.2	43.6	-
363	Household appliances.....	180.4	180.1	166.2	159.6	-	142.9	142.4	131.2	124.5	-
3632	Household refrigerators and freezers.....	40.5	39.1	34.3	35.5	-	33.0	31.7	27.4	28.8	-
3633	Household laundry equipment.....	23.5	23.4	20.0	18.2	-	18.6	18.4	15.2	13.3	-
3634	Electric housewares and fans.....	53.3	54.6	52.1	51.8	-	42.2	43.4	42.6	42.1	-
364	Electric lighting and wiring equipment.....	230.2	223.7	215.2	207.7	-	175.1	168.8	159.9	153.2	-
3641	Electric lamps.....	38.4	37.9	36.0	33.6	-	34.0	33.5	31.7	29.4	-
3643	Current-carrying wiring devices.....	93.1	91.1	93.8	91.9	-	65.8	63.7	65.5	64.0	-
3644	Noncurrent-carrying wiring devices.....	26.2	25.7	23.9	23.3	-	19.3	18.7	17.1	16.6	-
3645	Residential lighting fixtures.....	27.1	26.4	23.1	21.7	-	21.0	20.4	17.3	16.0	-
365	Radio and TV receiving equipment.....	115.2	112.2	104.6	106.8	-	85.3	83.5	73.3	77.5	-
3651	Radio and TV receiving sets.....	87.2	85.4	81.7	83.4	-	62.9	62.1	56.9	58.7	-
366	Communication equipment.....	525.4	528.5	550.3	551.9	-	263.7	265.0	274.6	273.1	-
3661	Telephone and telegraph apparatus.....	168.2	170.5	176.7	174.2	-	117.9	119.3	121.9	119.3	-
3662	Radio and TV communication equipment.....	357.2	358.0	373.6	377.7	-	145.8	145.7	152.7	153.8	-
367	Electronic components and accessories.....	528.8	529.9	558.3	559.9	-	332.7	330.5	341.8	338.6	-
3671-3	Electronic tubes.....	43.3	43.8	45.4	45.5	-	27.8	28.0	28.6	28.6	-
3674	Semiconductors and related devices.....	199.3	202.3	219.9	221.5	-	93.2	93.6	100.5	98.3	-
3679	Electronic components, nec.....	209.1	207.2	215.2	215.7	-	149.2	146.7	150.9	150.4	-
369	Misc. electrical equipment and supplies.....	180.6	172.4	161.0	158.9	-	133.9	125.4	114.4	112.3	-
3691	Storage batteries.....	31.8	29.1	29.4	29.7	-	25.4	22.6	22.5	22.9	-
3694	Engine electrical equipment.....	91.2	86.7	73.0	71.2	-	70.8	66.4	54.0	52.6	-
37	TRANSPORTATION EQUIPMENT.....	2,114.2	2,063.0	1,835.1	1,843.4	1,802.7	1,459.1	1,400.1	1,175.9	1,178.9	1,148.3
371	Motor vehicles and equipment.....	1,033.6	981.3	730.5	740.1	-	804.8	748.3	519.8	529.8	-
3711	Motor vehicles and car bodies.....	480.3	454.3	325.4	344.9	-	357.2	328.2	212.9	231.4	-
3713	Truck and bus bodies.....	48.4	47.2	37.4	34.9	-	38.9	37.6	28.7	26.5	-
3714	Motor vehicle parts and accessories.....	463.0	439.1	336.2	329.9	-	375.6	350.7	255.1	249.8	-
3715,6	Truck trailers and motor homes.....	41.9	40.7	31.5	30.4	-	33.1	31.8	23.1	22.1	-
372	Aircraft and parts.....	608.3	613.0	651.2	653.3	-	331.1	331.8	356.6	354.7	-
3721	Aircraft.....	332.1	334.8	350.0	350.1	-	164.5	165.5	174.2	172.0	-
3724	Aircraft engines and engine parts.....	151.0	152.0	162.0	163.3	-	86.8	86.3	93.5	94.0	-
3728	Aircraft equipment, nec.....	125.2	126.2	139.2	139.9	-	79.8	80.0	88.9	88.7	-
373	Ship and boat building and repairing.....	225.8	223.0	210.2	206.6	-	181.6	179.7	166.9	163.0	-
3731	Ship building and repairing.....	172.8	171.8	169.4	166.9	-	138.3	137.9	133.7	130.8	-
3732	Boat building and repairing.....	53.0	51.2	40.8	39.7	-	43.3	41.8	33.2	32.2	-
374	Railroad equipment.....	73.2	73.8	72.6	70.5	-	56.0	56.5	55.3	53.5	-
376	Guided missiles, space vehicles, parts.....	101.8	102.4	110.5	111.7	-	32.9	33.1	35.7	35.3	-
3761	Guided missiles and space vehicles.....	80.8	81.4	87.6	88.5	-	24.0	24.1	26.7	26.4	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]		All employees					Production workers ¹				
1972 SIC Code	Industry	June 1979	July 1979	May 1980	June 1980 p	July 1980 p	June 1979	July 1979	May 1980	June 1980 p	July 1980 p
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	51.6	49.7	39.9	41.4	-	36.7	35.0	25.2	26.6	-
3792	Travel trailers and campers	29.9	28.6	19.1	20.0	-	22.1	21.1	12.9	13.7	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	696.5	691.2	699.4	702.8	693.8	426.7	418.9	419.3	420.8	413.4
381	Measuring and controlling devices	73.0	73.6	77.2	78.2	-	36.5	36.6	37.8	38.0	-
382	Environmental controls	235.6	235.8	237.7	237.9	-	151.8	150.5	149.4	148.5	-
3822	Process control instruments	49.2	48.8	45.8	43.6	-	34.6	34.0	31.9	29.8	-
3823	Instruments to measure electricity	51.0	51.0	52.6	54.2	-	27.2	26.8	27.8	28.9	-
3825	Optical instruments and lenses	94.9	95.2	98.4	99.5	-	60.8	60.2	60.3	60.8	-
383	Medical instruments and supplies	32.2	32.3	35.1	35.4	-	18.1	17.8	19.3	19.8	-
384	Surgical and medical instruments	143.0	139.8	146.5	145.7	-	94.7	91.4	95.5	95.1	-
3841	Surgical appliances and supplies	61.8	59.4	64.2	63.4	-	40.8	38.5	42.1	41.6	-
3842	Ophthalmic goods	63.5	63.0	65.6	65.6	-	42.2	41.5	42.8	42.8	-
385	Photographic equipment and supplies	46.6	45.0	47.3	47.1	-	34.3	32.8	34.0	33.9	-
386	Watches, clocks, and watchcases	137.6	137.4	132.7	135.4	-	69.3	69.0	66.0	67.9	-
387		28.5	27.3	22.9	23.1	-	22.0	20.8	17.3	17.6	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	451.6	433.2	424.6	418.9	399.6	346.0	328.7	320.3	313.9	297.3
391	Jewelry, precious metal	60.1	58.4	55.2	54.7	-	44.0	42.1	39.3	39.1	-
3911	Musical instruments	39.4	38.0	35.1	34.8	-	28.3	27.3	24.7	24.7	-
393	Toys and sporting goods	23.5	22.7	20.2	19.8	-	19.2	18.4	16.3	15.6	-
394	Dolls, games, toys, and children's vehicles	124.4	119.6	118.2	115.7	-	96.3	91.8	89.7	86.9	-
3942, 4	Sporting and athletic goods, nec	61.2	57.6	57.1	57.6	-	46.3	43.0	42.5	42.7	-
3949	Pens, pencils, office and art supplies	63.2	62.0	61.1	58.1	-	50.0	48.8	47.2	44.2	-
395	Costume jewelry and notions	39.1	38.9	40.5	39.6	-	28.2	28.0	27.9	27.9	-
396	Costume jewelry	60.8	52.4	53.5	53.3	-	49.1	41.8	42.6	42.7	-
3961	Miscellaneous manufactures	33.9	26.7	27.4	27.7	-	27.5	21.2	21.4	21.8	-
399	Signs and advertising displays	143.7	141.2	137.0	135.8	-	109.2	106.6	103.7	101.7	-
3993		48.8	48.1	46.2	46.1	-	35.4	34.9	33.4	33.2	-
NONDURABLE GOODS											
20	Meat products	727.5	749.5	638.5	677.3	682.9	1,183.2	1,203.2	1,107.4	1,140.1	1,144.0
201	Meat packing plants	361.3	365.7	359.7	365.4	-	301.3	305.5	299.4	304.9	-
2011	Sausages and other prepared meats	160.9	162.5	161.3	162.5	-	130.3	132.2	131.7	132.8	-
2013	Poultry dressing plants	69.5	69.7	68.3	69.4	-	51.4	51.5	50.0	51.0	-
2016	Dairy products	115.5	118.1	114.8	119.0	-	106.1	108.5	104.6	108.8	-
202	Cheese, natural and processed	185.2	185.7	178.0	181.6	-	100.3	100.8	96.5	99.6	-
2022	Fluid milk	34.2	34.3	32.8	34.2	-	26.8	26.8	25.2	26.7	-
2026	Preserved fruits and vegetables	111.6	111.8	108.4	109.4	-	48.3	48.7	47.8	48.8	-
203	Canned specialties	244.3	266.0	201.8	213.3	-	198.5	218.8	161.2	171.4	-
2032	Canned fruits and vegetables	23.6	24.1	22.4	22.6	-	16.2	16.4	16.1	16.5	-
2033	Frozen fruits and vegetables	88.0	112.4	72.1	76.2	-	70.6	94.0	56.7	59.5	-
2037	Flour and other grain mill products	54.1	49.3	40.5	44.2	-	47.5	43.1	34.9	38.3	-
204	Prepared feeds, nec	144.1	143.9	139.2	141.4	-	99.7	99.2	95.1	97.2	-
2041	Bakery products	25.1	25.3	24.4	24.4	-	15.7	15.8	15.0	15.4	-
2046	Bread, cake, and related products	59.1	59.3	57.1	58.5	-	39.6	39.5	36.7	38.1	-
205	Cookies and crackers	233.7	233.2	230.8	232.0	-	137.2	136.8	134.1	135.1	-
2051	Sugar and confectionary products	189.9	189.7	187.1	188.9	-	103.0	102.9	100.3	101.8	-
2052	Cane and beet sugar	43.8	43.5	43.7	43.1	-	34.2	33.9	33.8	33.3	-
2056	Confectionary products	102.5	99.4	93.4	93.3	-	75.4	73.1	68.0	68.2	-
2061-3	Fats and oils	27.1	25.2	23.2	23.6	-	18.7	17.3	15.8	16.2	-
2065	Malt beverages	54.5	53.3	51.1	49.8	-	41.9	40.9	39.2	38.2	-
207	Bottled and canned soft drinks	43.3	42.8	42.9	42.6	-	30.9	30.7	31.2	30.7	-
208	Misc. foods and kindred products	242.8	242.9	235.6	239.9	-	113.7	112.8	104.3	107.8	-
2082		53.1	53.7	51.5	53.3	-	36.9	37.4	33.9	35.3	-
2086		144.7	145.1	142.1	145.8	-	51.1	50.9	48.1	49.5	-
209		170.3	169.9	159.1	167.8	-	126.2	125.5	117.6	125.2	-
21	Tobacco manufactures	65.0	65.0	62.7	64.8	62.5	50.7	50.8	47.8	49.2	47.0
211	Cigarettes	45.6	45.9	44.0	45.8	-	35.5	35.9	33.4	34.6	-
22	Textile mill products	897.1	872.3	870.6	852.4	812.9	782.4	759.5	757.4	740.9	702.2
221	Weaving mills, cotton	151.3	149.6	152.6	152.0	-	136.4	134.7	137.2	136.8	-
222	Weaving mills, synthetics	122.9	120.5	119.8	106.9	-	110.0	107.8	107.6	98.9	-
223	Weaving and finishing mills, wool	20.2	19.0	19.2	19.1	-	17.0	15.7	15.7	15.5	-
224	Narrow fabric mills	26.4	23.2	24.2	24.0	-	23.1	20.3	21.1	20.9	-
225	Knitting mills	232.7	225.6	231.9	231.6	-	201.5	195.5	201.5	201.8	-
2251	Women's hosiery, except socks	31.5	31.1	31.3	31.1	-	28.3	27.9	28.3	28.2	-
2252	Hosiery, nec	34.1	33.4	33.4	33.5	-	31.1	30.4	30.4	30.6	-
2253	Knit outerwear mills	73.5	70.1	76.3	77.2	-	63.1	60.4	65.6	66.4	-
2254	Knit underwear mills	32.2	30.9	32.0	32.3	-	27.8	26.6	27.6	28.1	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1979	July 1979	May 1980	June 1980 p	July 1980 p	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
	TEXTILE MILL PRODUCTS—Continued										
2257	Circular knit fabric mills	34.8	34.1	32.6	31.7	-	28.8	28.3	27.6	26.9	-
226	Textile finishing, except wool	78.4	75.7	75.7	75.0	-	66.1	63.5	63.6	63.1	-
2261	Finishing plants, cotton	31.2	30.1	30.0	29.8	-	26.1	25.1	25.1	24.9	-
2262	Finishing plants, synthetics	30.6	29.5	29.5	29.5	-	25.9	24.8	24.8	24.9	-
227	Floor covering mills	61.4	60.2	53.1	52.0	-	50.3	49.1	43.1	42.2	-
228	Yarn and thread mills	133.9	128.9	131.2	130.0	-	121.7	117.0	118.5	117.3	-
2281	Yarn mills, except wool	87.6	84.9	87.2	87.0	-	81.0	78.3	80.2	80.1	-
2282	Throwing and winding mills	26.5	25.0	23.9	23.1	-	23.5	22.1	20.9	20.0	-
229	Miscellaneous textile goods	69.9	69.6	62.9	61.8	-	56.3	55.9	49.1	48.4	-
	APPAREL AND OTHER TEXTILE PRODUCTS	1,335.2	1,276.0	1,299.0	1,314.2	1,229.6	1,146.2	1,088.4	1,109.2	1,124.5	1,048.2
231	Men's and boys' suits and coats	84.5	80.7	80.2	81.4	-	72.5	69.1	70.1	71.3	-
232	Men's and boys' furnishings	370.7	356.9	378.6	380.7	-	319.6	306.8	324.0	326.5	-
2321	Men's and boys' shirts and nightwear	106.0	99.9	104.4	105.3	-	92.8	87.3	90.5	91.5	-
2327	Men's and boys' separate trousers	79.9	77.0	80.2	80.7	-	69.5	66.7	70.0	70.5	-
2328	Men's and boys' work clothing	101.4	100.0	109.8	110.6	-	85.4	84.2	91.5	92.6	-
233	Women's and misses' outerwear	446.9	422.4	435.6	444.0	-	387.4	363.0	376.6	384.3	-
2331	Women's and misses' blouses and waists	65.4	61.8	62.6	63.6	-	57.3	53.8	54.6	55.5	-
2335	Women's and misses' dresses	161.2	154.2	151.8	155.6	-	143.8	136.8	134.6	138.0	-
2337	Women's and misses' suits and coats	68.4	63.4	64.8	67.7	-	59.4	54.6	56.3	59.5	-
2339	Women's and misses' outerwear, nec.	151.9	143.0	156.4	157.1	-	126.9	117.8	131.1	131.3	-
234	Women's and children's undergarments	92.8	87.8	90.2	89.8	-	79.2	73.8	76.7	76.2	-
2341	Women's and children's underwear	73.9	70.0	72.3	72.3	-	64.0	59.8	62.6	62.5	-
2342	Brassieres and allied garments	18.9	17.8	17.9	17.5	-	15.2	14.0	14.1	13.7	-
236	Children's outerwear	67.6	65.6	63.9	65.6	-	58.6	56.7	55.0	56.5	-
2361	Children's dresses and blouses	27.7	27.1	25.1	25.5	-	25.1	24.5	22.7	23.2	-
238	Misc. apparel and accessories	59.8	55.9	57.0	58.6	-	51.6	47.8	48.4	50.3	-
239	Misc. fabricated textile products	191.8	186.1	173.4	173.9	-	159.3	153.5	141.0	141.9	-
2391	Curtains and draperies	29.4	27.4	28.5	27.8	-	25.5	23.5	24.0	23.4	-
2392	House furnishings, nec	53.4	52.1	50.7	51.3	-	44.2	42.7	41.5	42.1	-
2396	Automotive and apparel trimmings	34.7	33.8	25.6	26.4	-	28.7	27.9	19.8	20.8	-
	PAPER AND ALLIED PRODUCTS	716.9	711.8	692.4	694.6	676.8	544.7	541.3	522.4	524.1	508.9
261, 2, 6	Paper and pulp mills	209.9	211.2	203.4	205.6	-	158.5	159.1	152.0	153.9	-
262	Paper mills, except building paper	180.3	181.4	176.3	178.2	-	134.6	135.2	130.6	132.1	-
263	Paperboard mills	66.2	65.8	64.3	65.1	-	52.8	52.3	50.5	51.1	-
264	Misc. converted paper products	223.7	221.3	216.0	216.3	-	165.5	164.6	160.2	160.3	-
2641	Paper coating and glazing	58.9	58.8	56.5	56.8	-	37.4	37.9	36.9	36.8	-
2642	Envelopes	24.8	23.9	25.2	25.0	-	19.6	18.9	19.9	19.8	-
2643	Bags, except textile bags	50.7	50.4	49.3	48.6	-	39.7	39.3	38.3	37.7	-
265	Paperboard containers and boxes	217.1	213.5	208.7	207.6	-	167.9	165.3	159.7	158.8	-
2651	Folding paperboard boxes	45.3	45.0	44.2	44.3	-	36.2	35.8	34.9	35.0	-
2653	Corrugated and solid fiber boxes	111.2	110.3	106.7	105.3	-	82.4	81.9	78.1	77.0	-
2654	Sanitary food containers	27.4	26.8	26.7	26.7	-	22.8	22.5	21.9	21.8	-
	PRINTING AND PUBLISHING	1,240.2	1,242.3	1,267.8	1,271.4	1,264.6	698.8	700.1	711.4	711.3	704.8
271	Newspapers	424.5	424.9	431.1	433.4	-	169.2	168.7	168.5	168.3	-
272	Periodicals	80.1	80.5	81.9	82.2	-	13.5	13.6	15.1	14.9	-
273	Books	103.6	103.2	106.9	106.2	-	54.8	54.4	56.4	55.6	-
2731	Book publishing	71.1	70.9	73.7	72.7	-	27.4	27.1	28.7	27.6	-
2732	Book printing	32.5	32.3	33.2	33.5	-	27.4	27.3	27.7	28.0	-
274	Miscellaneous publishing	45.0	45.9	47.5	47.9	-	26.2	27.4	26.2	26.2	-
275	Commercial printing	407.6	407.5	421.3	422.2	-	301.4	301.6	311.9	312.6	-
2751	Commercial printing, letterpress	167.3	166.6	166.9	167.5	-	123.4	123.0	122.9	123.7	-
2752	Commercial printing, lithographic	217.9	219.0	230.6	231.4	-	159.4	160.4	169.5	169.9	-
276	Manifold business forms	46.8	47.0	47.2	47.0	-	33.1	33.2	33.3	33.3	-
278	Blankbooks and bookbinding	65.5	65.5	63.7	63.8	-	54.5	54.2	52.1	52.3	-
279	Printing trade services	42.9	43.1	45.0	45.1	-	31.5	31.9	33.4	33.4	-
	CHEMICALS AND ALLIED PRODUCTS	1,124.8	1,120.9	1,119.5	1,121.5	1,107.6	642.7	637.3	633.5	629.7	621.6
281	Industrial inorganic chemicals	164.3	163.6	166.9	168.1	-	89.3	87.9	90.5	90.2	-
2819	Industrial inorganic chemicals, nec.	106.8	107.2	109.2	110.0	-	57.7	57.6	60.3	60.3	-
282	Plastics materials and synthetics	214.1	214.0	207.4	203.7	-	144.5	144.5	138.7	134.2	-
2821	Plastics materials and resins	88.0	87.9	85.9	85.1	-	53.8	53.7	51.7	50.3	-
2824	Organic fibers, noncellulosic	97.7	97.5	93.5	91.7	-	70.4	70.1	66.8	64.6	-
283	Drugs	196.2	195.8	199.5	202.1	-	97.5	97.1	98.7	99.3	-
2834	Pharmaceutical preparations	156.5	155.8	158.6	160.6	-	74.8	74.5	75.9	76.8	-
284	Soap, cleaners, and toilet goods	141.0	140.0	136.4	137.9	-	85.5	84.2	82.5	84.1	-
2841	Soap and other detergents	41.6	41.3	40.8	41.2	-	27.2	26.5	26.2	26.5	-
2844	Toilet preparations	58.6	58.3	56.2	57.2	-	35.7	35.6	34.8	36.2	-
2842, 3	Polishing, sanitation, and finishing preparations	40.8	40.4	39.4	39.5	-	22.6	22.1	21.5	21.4	-
285	Paints and allied products	70.7	70.8	66.8	66.9	-	37.4	37.2	34.1	33.8	-
286	Industrial organic chemicals	173.0	173.3	172.9	174.0	-	89.5	89.7	87.6	87.9	-

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				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates	37.3	37.6	37.1	36.4	-	23.6	23.7	22.4	22.0	-
2861,9	Gum, wood, and industrial organic chemicals, nec	135.7	135.7	135.8	137.6	-	65.9	66.0	65.2	65.9	-
287	Agricultural chemicals	70.8	69.4	75.1	73.4	-	45.5	43.9	48.4	46.2	-
289	Miscellaneous chemical products	94.7	94.0	94.5	95.4	-	53.5	52.8	53.0	54.0	-
29	PETROLEUM AND COAL PRODUCTS	212.9	213.9	203.4	206.4	208.3	140.2	140.5	131.1	132.6	135.1
291	Petroleum refining	166.4	167.5	160.5	163.2	-	105.4	105.8	100.0	101.5	-
295	Paving and roofing materials	34.2	34.0	30.1	30.3	-	27.2	26.9	22.9	22.9	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	788.1	776.0	702.4	688.5	667.7	618.7	605.8	537.6	526.0	508.0
301	Tires and inner tubes	121.9	120.6	102.3	101.4	-	87.5	86.1	70.5	71.1	-
302	Rubber and plastics footwear	23.5	21.7	22.3	22.5	-	20.5	18.9	19.7	19.9	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	25.3	24.8	21.1	20.5	-	19.3	18.7	14.8	14.3	-
306	Fabricated rubber products, nec	120.6	120.1	105.1	102.7	-	95.1	94.4	80.6	78.6	-
307	Miscellaneous plastics products	496.8	488.8	451.6	441.4	-	396.3	387.7	352.0	342.1	-
31	LEATHER AND LEATHER PRODUCTS	258.5	228.8	243.2	245.5	227.5	221.2	194.0	205.4	208.1	192.3
311	Leather tanning and finishing	20.7	19.4	19.1	19.2	-	17.5	16.2	15.8	16.0	-
314	Footwear, except rubber	158.4	135.8	156.0	157.5	-	136.7	116.6	133.5	135.1	-
3143	Men's footwear, except athletic	61.9	53.8	58.2	58.9	-	54.0	46.4	50.3	51.0	-
3144	Women's footwear, except athletic	63.2	51.5	63.7	64.4	-	54.4	44.4	53.8	54.6	-
316	Luggage	18.3	17.6	14.1	14.9	-	14.4	13.8	10.5	11.4	-
317	Handbags and personal leather goods	34.1	31.8	30.1	30.0	-	29.3	27.2	25.6	25.6	-
-	TRANSPORTATION AND PUBLIC UTILITIES	5,219	5,187	5,167	5,185	5,152	4,380	4,348	4,318	4,327	4,300
40	RAILROAD TRANSPORTATION	569.9	568.8	544.7	537.5	-	-	-	-	-	-
4011	Class I railroads ²	514.3	513.3	497.8	485.3	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	262.6	225.0	284.1	276.1	-	242.5	205.6	263.1	253.4	-
411	Local and suburban transportation	75.1	76.0	80.9	81.9	-	69.4	70.5	73.8	74.7	-
412	Taxicabs	60.3	59.4	59.0	58.1	-	-	-	-	-	-
413	Intercity highway transportation	37.8	39.5	40.5	41.8	-	34.9	36.6	37.5	38.5	-
415	School buses	75.1	37.6	88.0	78.9	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	1,375.3	1,368.0	1,269.6	1,278.1	-	1,218.5	1,209.7	1,112.1	1,119.8	-
421,3	Trucking and trucking terminals	1,288.3	1,279.8	1,181.6	1,191.0	-	1,144.0	1,134.0	1,037.4	1,046.0	-
422	Public warehousing	87.0	88.2	88.0	87.1	-	74.5	75.7	74.7	73.8	-
44	WATER TRANSPORTATION	222.3	224.8	217.4	221.4	-	-	-	-	-	-
45	TRANSPORTATION BY AIR	443.9	444.9	455.1	458.6	-	-	-	-	-	-
451,2	Air transportation	396.4	397.0	405.9	409.1	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	20.3	20.5	19.7	20.6	-	14.5	14.7	14.0	14.7	-
47	TRANSPORTATION SERVICES	188.7	190.1	194.3	193.6	-	-	-	-	-	-
48	COMMUNICATION	1,318.0	1,321.2	1,351.4	1,362.4	-	995.1	997.0	1,008.6	1,014.8	-
481	Telephone communication	1,058.6	1,064.7	1,076.3	1,084.2	-	782.1	783.4	783.3	787.2	-
483	Radio and television broadcasting	189.5	189.5	200.3	202.9	-	151.9	152.1	160.3	162.2	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	817.9	823.9	830.7	837.0	-	669.9	676.4	680.2	685.5	-
491	Electric services	376.9	379.4	390.6	393.9	-	304.3	307.0	315.6	318.2	-
492	Gas production and distribution	171.2	173.1	168.5	173.6	-	140.0	141.7	137.6	143.1	-
493	Combination utility services	197.9	199.1	198.2	195.0	-	163.2	165.0	163.7	159.8	-
495	Sanitary services	48.2	48.4	50.5	51.2	-	42.8	42.9	44.4	45.1	-
-	WHOLESALE AND RETAIL TRADE	20,321	20,254	20,497	20,540	20,496	17,859	17,786	17,985	18,010	17,955
50,51	WHOLESALE TRADE	5,245	5,243	5,263	5,283	5,275	4,314	4,307	4,304	4,318	4,311
50	WHOLESALE TRADE - DURABLE GOODS	3,116	3,117	3,130	3,131	-	2,561	2,560	2,559	2,557	-
501	Motor vehicles and automotive equipment	448.7	445.2	425.1	425.5	-	366.7	363.6	343.9	343.0	-
502	Furniture and home furnishing	111.2	111.6	114.6	115.8	-	90.6	90.7	93.5	94.8	-
503	Lumber and construction materials	198.6	199.4	188.0	188.3	-	166.2	167.3	154.1	154.4	-
504	Sporting goods, toys, and hobby goods	68.7	69.3	72.3	72.0	-	56.6	57.0	59.2	58.8	-
505	Metals and minerals, except petroleum	154.3	154.8	153.1	151.5	-	126.0	126.1	124.2	122.6	-
506	Electrical goods	404.9	404.3	409.4	410.8	-	331.7	330.5	333.8	334.4	-
507	Hardware, plumbing, and heating equipment	244.2	244.7	243.3	244.1	-	200.6	201.7	199.8	200.4	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,275.0	1,278.0	1,312.0	1,315.0	-	1,043.4	1,046.2	1,070.6	1,072.9	-
509	Miscellaneous durable goods	210.8	209.2	211.9	207.8	-	178.7	176.8	179.4	175.4	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,129	2,126	2,133	2,152	-	1,753	1,747	1,745	1,761	-
511	Paper and paper products	146.0	146.0	147.8	149.1	-	118.3	118.5	120.8	121.7	-
512	Drugs, proprietaries, and sundries	146.0	145.7	151.8	152.8	-	125.3	124.8	128.6	129.4	-
513	Apparel, piece goods, and notions	171.2	171.7	175.1	177.2	-	135.9	136.0	138.8	140.4	-
514	Groceries and related products	650.2	651.9	645.7	659.1	-	561.6	562.0	556.7	570.1	-
516	Chemicals and allied products	123.1	122.9	126.3	127.0	-	89.5	89.6	92.8	92.9	-
517	Petroleum and petroleum products	229.9	227.9	233.8	234.6	-	169.6	167.3	171.1	171.9	-
518	Beer, wine, and distilled beverages	136.4	137.4	134.8	137.9	-	116.1	117.0	113.4	116.2	-
519	Miscellaneous nondurable goods	385.2	383.6	391.4	388.6	-	320.1	317.4	319.8	316.0	-
52-59	RETAIL TRADE	15,076	15,011	15,234	15,257	15,221	13,545	13,479	13,681	13,692	13,644
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	645.8	643.3	630.3	628.3	-	550.5	547.4	533.8	532.1	-
521	Lumber and other building materials	348.4	350.6	326.5	330.0	-	297.1	298.8	275.7	279.5	-
525	Hardware stores	151.3	150.3	154.9	155.6	-	131.0	130.0	133.2	133.7	-
53	GENERAL MERCHANDISE STORES	2,205.6	2,192.2	2,147.1	2,136.1	-	2,051.0	2,038.5	1,995.5	1,981.5	-
531	Department stores	1,790.7	1,780.6	1,741.1	1,731.4	-	1,675.5	1,666.5	1,630.2	1,619.0	-
533	Variety stores	276.4	272.9	267.6	265.7	-	254.8	251.4	247.3	243.9	-
539	Misc. general merchandise stores	138.5	138.7	138.4	139.0	-	120.7	120.6	118.0	118.6	-
54	FOOD STORES	2,278.6	2,283.5	2,375.5	2,391.8	-	2,102.2	2,106.8	2,194.5	2,209.9	-
541	Grocery stores	1,988.1	1,996.0	2,081.5	2,096.2	-	1,836.9	1,844.1	1,926.1	1,940.5	-
542	Meat markets and freezer provisioners	52.5	52.0	52.9	52.2	-	-	-	-	-	-
546	Retail bakeries	129.5	126.6	129.0	129.1	-	119.0	116.3	118.9	119.1	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,835.4	1,802.6	1,740.5	1,734.7	-	1,567.8	1,534.9	1,474.9	1,469.0	-
551.2	New and used car dealers	900.1	885.6	807.6	794.3	-	749.4	736.0	662.4	651.3	-
553	Auto and home supply stores	276.4	274.6	266.0	270.0	-	243.1	240.6	230.6	233.7	-
554	Gasoline service stations	563.8	546.7	571.9	574.5	-	493.7	476.3	498.0	499.4	-
56	APPAREL AND ACCESSORY STORES	933.8	918.8	942.8	943.6	-	806.6	790.7	807.4	807.9	-
561	Men's and boys' clothing and furnishings	138.8	137.5	135.7	137.0	-	118.7	117.1	114.7	116.1	-
562	Women's ready-to-wear stores	350.4	342.9	352.5	348.3	-	305.5	297.5	305.3	301.4	-
565	Family clothing stores	169.5	169.8	178.6	181.6	-	149.0	148.7	155.2	157.3	-
566	Shoe stores	179.8	175.4	179.3	178.9	-	150.6	146.5	149.3	149.2	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	610.8	609.7	598.2	591.3	-	505.6	505.0	494.8	489.8	-
571	Furniture and home furnishings	374.4	374.1	370.1	370.9	-	314.8	314.3	308.3	309.1	-
572	Household appliance stores	85.7	86.0	80.9	80.2	-	72.9	73.4	69.6	69.0	-
573	Radio, television, and music stores	150.7	149.6	147.2	140.2	-	117.9	117.3	116.9	111.7	-
58	EATING AND DRINKING PLACES	4,706.2	4,715.6	4,898.5	4,944.9	-	4,326.9	4,334.7	4,511.5	4,552.4	-
59	MISCELLANEOUS RETAIL	1,859.7	1,845.5	1,901.3	1,885.8	-	1,634.5	1,621.0	1,668.8	1,649.5	-
591	Drug stores and proprietary stores	492.9	491.2	505.7	505.1	-	449.0	447.4	460.1	458.9	-
592	Liquor stores	127.8	130.0	131.3	132.2	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	553.9	552.6	582.9	579.1	-	472.6	471.6	497.6	492.6	-
596	Nonstore retailers	273.3	271.3	260.8	255.6	-	255.5	253.8	242.5	237.8	-
598	Fuel and ice dealers	101.9	100.7	104.1	103.4	-	86.2	84.9	87.1	86.8	-
599	Retail stores, nec.	250.9	243.1	258.4	249.3	-	211.1	203.6	219.5	208.2	-
-	FINANCE, INSURANCE, AND REAL										
	ESTATE ?	5,019	5,048	5,137	5,201	5,220	3,824	3,842	3,893	3,946	3,959
60	BANKING	1,498.9	1,508.0	1,538.4	1,553.7	-	1,162.6	1,170.3	1,186.2	1,196.7	-
802	Commercial and stock savings banks	1,369.9	1,377.6	1,404.1	1,417.2	-	1,057.4	1,064.2	1,076.4	1,084.9	-
61	CREDIT AGENCIES OTHER THAN BANKS	554.3	559.3	554.7	554.0	-	423.0	425.0	419.4	417.4	-
612	Savings and loan associations	235.5	236.7	237.9	239.1	-	182.6	183.7	181.4	182.3	-
614	Personal credit institutions	209.8	213.0	210.2	207.8	-	159.0	159.5	158.1	155.3	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	201.4	203.5	209.0	212.6	-	-	-	-	-	-
621	Security brokers and dealers	161.4	162.8	165.9	168.5	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,206.5	1,210.9	1,232.0	1,240.8	-	845.9	849.9	861.8	868.6	-
831	Life insurance	523.6	525.2	535.2	540.8	-	311.9	313.8	325.5	330.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	136.6	136.7	139.8	140.5	-	109.2	109.2	111.8	112.6	-
633	Fire, marine, and casualty insurance	471.6	474.3	489.6	492.9	-	363.4	365.3	371.4	373.6	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	430.4	431.8	451.4	454.6	-	-	-	-	-	-
65	REAL ESTATE	989.7	997.2	1,008.8	1,041.2	-	-	-	-	-	-
651	Real estate operators and lessors	448.9	457.6	467.3	483.5	-	-	-	-	-	-
653	Real estate agents and managers	374.6	374.6	379.8	391.9	-	-	-	-	-	-
655	Subdividers and developers	142.4	141.2	140.5	144.7	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	23.8	23.4	23.1	23.3	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES	113.9	113.7	119.6	120.8	-	-	-	-	-	-
-	SERVICES	17,265	17,324	17,747	17,825	17,929	15,329	15,377	15,799	15,863	15,955
70	HOTELS AND OTHER LODGING PLACES	1,114.5	1,163.8	1,091.0	1,135.7	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,071.9	1,094.7	1,054.5	1,088.9	-	989.9	1,009.4	969.9	999.5	-
72	PERSONAL SERVICES	920.3	913.8	928.8	920.9	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	362.7	359.1	354.5	355.9	-	323.7	320.4	316.8	317.9	-
723	Beauty shops	292.9	292.6	295.0	293.5	-	270.1	269.7	274.9	273.7	-
726	Funeral service and crematories	68.4	69.6	70.5	71.4	-	-	-	-	-	-
73	BUSINESS SERVICES	2,892.7	2,888.0	2,962.5	2,978.9	-	2,516.0	2,509.0	2,581.8	2,594.7	-
731	Advertising	145.8	146.4	148.2	148.2	-	108.2	108.7	112.3	112.5	-
732	Credit reporting and collection	77.4	78.2	71.5	71.1	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	113.6	112.7	119.3	121.1	-	-	-	-	-	-
734	Services to buildings	500.1	496.2	508.3	512.2	-	452.4	448.6	460.7	465.0	-
736	Personnel supply services	519.7	516.8	504.0	487.9	-	-	-	-	-	-
737	Computer and data processing services	265.2	268.6	287.9	292.8	-	218.2	221.2	238.5	243.5	-
75	AUTO REPAIR, SERVICES, AND GARAGES	582.0	581.1	584.9	585.5	-	497.4	495.7	499.5	499.7	-
753	Automotive repair shops	361.0	363.0	355.3	357.6	-	307.4	308.9	301.2	303.9	-
76	MISCELLANEOUS REPAIR SERVICES	286.9	287.5	300.7	300.8	-	246.2	247.3	257.3	258.3	-
78	MOTION PICTURES	227.1	236.4	219.4	226.2	-	203.4	212.4	192.8	198.8	-
781	Motion picture production and services	77.9	82.5	75.7	80.2	-	68.3	72.4	62.6	65.8	-
783	Motion picture theaters	138.8	143.5	132.9	134.7	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	802.4	804.0	784.7	843.3	-	730.2	733.1	717.0	773.3	-
80	HEALTH SERVICES	5,002.1	5,011.1	5,176.9	5,230.9	-	4,451.8	4,457.1	4,613.4	4,672.2	-
801	Offices of physicians	722.1	725.6	748.8	754.4	-	592.1	593.9	611.9	620.5	-
802	Offices of dentists	326.8	321.6	340.2	342.1	-	286.4	281.0	295.6	297.9	-
805	Nursing and personal care facilities	956.9	957.8	986.6	1,000.1	-	860.3	861.0	887.6	900.7	-
806	Hospitals	2,605.7	2,617.4	2,690.6	2,722.2	-	2,377.0	2,387.3	2,465.5	2,497.6	-
81	LEGAL SERVICES	464.5	465.6	474.2	487.4	-	399.1	399.8	407.5	419.3	-
82	EDUCATIONAL SERVICES	996.0	935.7	1,136.9	1,015.8	-	-	-	-	-	-
821	Elementary and secondary schools	243.2	225.2	271.6	263.3	-	-	-	-	-	-
822	Colleges and universities	638.8	599.3	743.9	632.9	-	-	-	-	-	-
83	SOCIAL SERVICES	1,105.6	1,159.1	1,147.6	1,148.8	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,536.1	1,534.9	1,573.7	1,572.9	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	949.1	959.5	994.6	1,010.5	-	790.2	798.0	830.6	842.3	-
891	Engineering and architectural services	528.4	535.7	550.1	560.5	-	449.1	456.3	467.6	476.8	-
893	Accounting, auditing, and bookkeeping	292.9	295.1	307.4	310.9	-	235.6	235.3	248.8	249.5	-
-	GOVERNMENT	16,080	15,359	16,556	16,388	15,561	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,824	2,838	2,963	2,994	2,918	-	-	-	-	-
-	Executive, by agency ⁴	2,770.2	2,783.0	2,908.2	2,938.3	-	-	-	-	-	-
-	Department of Defense	906.6	908.5	895.1	909.4	-	-	-	-	-	-
-	Postal Service	663.2	665.4	659.3	661.7	-	-	-	-	-	-
-	Other executive agencies	1,200.4	1,209.1	1,353.8	1,367.2	-	-	-	-	-	-
-	Legislative	41.0	41.2	40.2	41.2	-	-	-	-	-	-
-	Judicial	13.1	13.4	14.3	14.6	-	-	-	-	-	-

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				
		June 1979	July 1979	May 1980	June 1980 p	July 1980 p	June 1979	July 1979	May 1980	June 1980 p	July 1980 p
	FEDERAL GOVERNMENT—Continued										
	Federal Government, by industry										
—	Manufacturing activities	125.1	125.3	123.9	124.2	—	—	—	—	—	
3731	Shipbuilding and repairing	72.6	72.9	72.7	72.7	—	—	—	—	—	
—	Transportation and public utilities, except										
—	Postal Service	45.4	45.2	44.9	46.6	—	—	—	—	—	
—	Services	360.8	365.1	395.8	395.8	—	—	—	—	—	
808	Federal government hospitals	226.3	228.9	235.6	236.6	—	—	—	—	—	
—	STATE AND LOCAL GOVERNMENT	13,256	12,521	13,593	13,394	12,643	—	—	—	—	
—	State government	3,438.4	3,363.5	3,632.0	3,482.7	—	—	—	—	—	
808	State government hospitals	543.1	542.6	547.0	549.8	—	—	—	—	—	
82	State education	1,250.5	1,163.5	1,449.7	1,281.0	—	—	—	—	—	
—	General administration including executive, legislative, and judicial functions	1,014.7	1,020.6	1,011.5	1,023.9	—	—	—	—	—	
—	Local government	9,817.4	9,157.8	9,960.7	9,911.6	—	—	—	—	—	
—	Transportation and public utilities	597.0	600.6	611.3	620.0	—	—	—	—	—	
808	Local government hospitals	567.4	570.0	582.4	589.1	—	—	—	—	—	
82	Local education	5,165.1	4,312.6	5,396.3	5,194.0	—	—	—	—	—	
—	General administration including executive, legislative, and judicial functions	3,064.3	3,223.0	2,986.2	3,107.7	—	—	—	—	—	

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

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

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

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

* Not available.

p = preliminary.

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

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

(In thousands)

1972 SIC Code	Industry	Apr. 1979	May 1979	Mar. 1980	Apr. 1980	May 1980
-	TOTAL	36,915	37,150	38,115	38,328	38,325
-	PRIVATE SECTOR	29,307	29,551	30,202	30,321	30,391
-	MINING	87	89	99	100	102
10	METAL MINING	8.0	8.2	8.8	9.0	9.2
11, 12	COAL MINING	9.1	9.2	10.7	10.9	11.2
13	OIL AND GAS EXTRACTION	61.4	62.4	70.0	70.6	72.1
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	38.7	39.5	44.7	45.5	46.3
138	Oil and gas field services.....	22.7	22.9	25.3	25.1	25.8
14	NONMETALLIC MINERALS, EXCEPT FUELS	8.5	8.8	9.0	9.2	9.4
142	Crushed and broken stone.....	2.6	2.7	2.5	2.6	2.7
144	Sand and gravel.....	2.8	2.8	3.0	3.1	3.1
-	CONSTRUCTION	343	350	372	376	380
15	GENERAL BUILDING CONTRACTORS	124.0	125.9	131.4	132.1	132.0
152	Residential building construction.....	70.3	71.2	74.0	75.1	75.0
153	Operative builders.....	17.3	17.3	16.4	15.6	15.3
154	Nonresidential building construction.....	36.4	37.4	41.0	41.4	41.7
16	HEAVY CONSTRUCTION CONTRACTORS	51.3	54.3	53.4	55.6	58.2
161	Highway and street construction.....	14.3	16.3	14.6	16.1	17.9
162	Heavy construction, except highway.....	37.0	38.0	38.8	39.5	40.3
17	SPECIAL TRADE CONTRACTORS	167.2	169.7	187.4	188.2	189.3
171	Plumbing, heating, air conditioning.....	47.6	48.4	52.9	53.0	53.7
172	Painting, paper hanging, decorating.....	10.8	10.9	12.4	12.3	12.1
173	Electrical work.....	29.4	30.0	33.9	34.7	34.8
174	Masonry, stonework, and plastering.....	19.1	19.2	21.7	21.3	21.8
175	Carpentering and flooring.....	12.9	12.9	14.0	14.3	14.0
176	Roofing and sheet metal work.....	11.4	11.4	13.1	13.1	13.3
-	MANUFACTURING	6,415	6,455	6,492	6,433	6,326
24, 25, 32-39	DURABLE GOODS	3,071	3,091	3,128	3,091	3,007
20-23, 28-31	NONDURABLE GOODS	3,344	3,364	3,364	3,342	3,319
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	113.8	115.2	109.5	103.2	98.3
241	Logging camps and logging contractors.....	4.8	4.8	4.9	4.9	4.9
242	Sawmills and planing mills.....	22.6	23.0	22.4	21.3	20.0
2421	Sawmills and planing mills, general.....	15.7	16.0	15.8	15.0	14.0
243	Millwork, plywood, and structural members.....	46.4	47.1	43.6	40.6	38.2
244	Wooden containers.....	7.8	7.8	7.5	7.0	7.3
245	Wood buildings and mobile homes.....	10.9	11.3	9.6	8.8	7.9
249	Miscellaneous wood products.....	21.3	21.2	21.5	20.6	20.0
25	FURNITURE AND FIXTURES	145.8	145.5	146.5	145.7	139.8
251	Household furniture.....	107.6	107.0	106.9	106.3	101.7
2511	Wood household furniture.....	45.7	45.9	45.7	45.1	44.5
2512	Upholstered household furniture.....	35.9	36.0	35.4	35.2	33.3
2515	Mattresses and bedspreads.....	8.6	8.6	8.2	8.2	7.5
252	Office furniture.....	11.5	11.8	12.5	12.6	12.5
253	Public building and related furniture.....	5.5	5.4	5.4	5.4	5.3
254	Partitions and fixtures.....	10.3	10.5	10.5	10.7	9.9
259	Miscellaneous furniture and fixtures.....	10.9	10.8	11.2	10.7	10.4
32	STONE, CLAY, AND GLASS PRODUCTS	133.0	134.7	132.7	130.8	127.6
322	Glass and glassware, pressed or blown.....	43.7	44.4	43.4	43.3	43.1
3221	Glass containers.....	25.3	25.4	24.0	23.6	23.6
3229	Pressed and blown glass, nec.....	18.4	19.0	19.4	19.7	19.5
323	Products of purchased glass.....	13.9	13.9	14.0	13.6	13.2
324	Cement, hydraulic.....	1.7	1.7	1.7	1.7	1.7
325	Structural clay products.....	6.9	7.0	6.9	6.7	6.3
326	Pottery and related products.....	16.7	16.6	16.5	16.0	15.5
327	Concrete, gypsum, and plaster products.....	14.8	15.2	15.0	15.0	14.9
329	Misc. nonmetallic mineral products.....	32.3	32.8	32.4	31.9	30.5
33	PRIMARY METAL INDUSTRIES	133.7	135.1	131.9	130.5	123.0
331	Blast furnace and basic steel products.....	43.1	43.9	42.3	42.4	39.9
3312	Blast furnaces and steel mills.....	33.2	34.0	32.1	32.0	30.3
332	Iron and steel foundries.....	21.0	20.9	19.3	19.1	18.4

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Apr. 1979	May 1979	Mar. 1980	Apr. 1980	May 1980
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	10.5	10.5	8.6	8.4	8.2
3322	Malleable iron foundries	1.7	1.7	1.3	1.3	1.2
3325	Steel foundries, nec	5.0	5.0	5.4	5.4	5.3
333	Primary nonferrous metals	4.7	4.7	4.9	5.0	5.2
3334	Primary aluminum	1.8	1.9	2.0	2.1	2.2
335	Nonferrous rolling and drawing	42.8	43.4	43.5	42.6	39.5
3351	Copper rolling and drawing	3.9	4.0	3.6	3.5	3.2
3353	Aluminum sheet, plate, and foil	4.5	4.6	4.6	4.5	4.5
3357	Nonferrous wire drawing and insulating	25.6	25.7	26.6	26.0	23.5
336	Nonferrous foundries	16.9	16.8	16.0	15.6	14.2
3361	Aluminum foundries	8.2	8.3	8.3	8.2	7.4
34	FABRICATED METAL PRODUCTS	358.2	360.5	358.4	351.3	335.0
341	Metal cans and shipping containers	14.2	14.1	14.1	13.9	13.5
3411	Metal cans	12.3	12.2	12.2	12.0	11.6
342	Cutlery, hand tools, and hardware	63.1	63.3	61.9	59.6	56.8
3423, 5	Hand and edge tools, and hand saws and blades	17.2	17.4	17.6	17.4	16.7
3429	Hardware, nec	38.8	38.8	37.2	35.2	33.2
343	Plumbing and heating, except electric	19.3	19.0	18.9	18.2	15.7
344	Fabricated structural metal products	71.5	73.1	75.0	73.2	70.9
3441	Fabricated structural metal	7.5	7.4	8.1	8.1	7.9
3442	Metal doors, sash, and trim	22.1	23.4	22.3	20.9	19.3
3443	Fabricated plate work (boiler shops)	16.2	16.3	17.8	17.8	18.0
3444	Sheet metal work	15.9	16.0	16.6	16.2	15.7
345	Screw machine products, bolts, etc.	25.3	25.5	26.4	26.1	25.0
3451	Screw machine products	12.8	12.9	13.6	13.3	12.7
3452	Bolts, nuts, rivets, and washers	12.5	12.6	12.8	12.8	12.3
346	Metal forgings and stampings	58.3	58.3	54.8	53.7	49.7
3462	Iron and steel forgings	4.7	4.8	4.9	4.9	4.7
3465	Automotive stampings	15.9	16.2	12.3	11.5	10.0
3469	Metal stampings, nec	35.6	35.3	35.4	35.0	32.8
347	Metal services, nec	26.5	26.7	26.8	26.8	26.0
3471	Plating and polishing	18.3	18.4	18.2	18.0	17.8
3479	Metal coating and allied services	8.2	8.3	8.6	8.8	8.2
348	Ordinance and accessories, nec	18.3	18.4	17.7	17.8	17.5
349	Misc. fabricated metal products	61.7	62.1	62.8	62.0	59.9
3494	Valves and pipe fittings	23.7	23.8	24.4	24.3	23.6
3496	Misc. fabricated wire products	14.0	14.2	14.9	14.8	14.0
35	MACHINERY, EXCEPT ELECTRICAL	469.9	471.8	502.5	499.8	495.1
351	Engines and turbines	26.8	27.0	26.7	26.5	25.5
3511	Turbines and turbine generator sets	5.7	5.7	5.8	5.8	5.8
3519	Internal combustion engines, nec	21.1	21.3	20.9	20.7	19.7
352	Farm and garden machinery	27.5	27.8	28.1	27.6	27.9
3523	Farm machinery and equipment	20.7	21.0	21.3	21.2	22.6
353	Construction and related machinery	42.3	43.0	49.4	48.5	48.4
3531	Construction machinery	13.7	13.7	16.2	15.2	14.9
3533	Oil field machinery	11.0	11.3	13.2	13.3	13.8
354	Metalworking machinery	55.1	55.5	60.2	60.0	59.1
3541	Machine tools, metal cutting types	9.4	9.6	10.5	10.5	10.5
3544	Special dies, tools, jigs, and fixtures	15.9	15.8	15.5	15.3	15.3
3545	Machine tool accessories	12.8	12.9	14.5	14.5	14.4
355	Special industry machinery	28.9	29.1	31.0	31.1	30.9
3551	Food products machinery	6.2	6.2	6.7	6.7	6.7
3552	Textile machinery	5.0	5.0	5.3	5.3	5.2
3555	Printing trades machinery	5.8	5.9	6.4	6.5	6.5
356	General industrial machinery	62.8	62.1	65.3	64.5	63.3
3561	Pumps and pumping equipment	11.6	11.7	11.7	11.6	11.4
3562	Ball and roller bearings	14.4	13.5	14.7	14.5	14.3
357	Office and computing machines	135.5	136.7	151.2	152.2	153.4
3573	Electronic computing equipment	107.4	108.3	123.5	124.6	125.3
358	Refrigeration and service machinery	41.4	41.4	40.1	39.3	37.3
3585	Refrigeration and heating equipment	28.1	28.0	26.9	26.1	24.2
359	Misc. machinery, except electrical	49.6	49.2	50.5	50.1	49.3
3599	Machinery, except electrical, nec	38.1	37.8	39.7	39.4	39.0
36	ELECTRIC AND ELECTRONIC EQUIPMENT	887.2	894.8	930.3	925.8	903.5
361	Electric distributing equipment	46.0	45.7	45.5	44.7	44.7
3612	Transformers	19.5	19.4	19.7	19.4	19.0
3613	Switchgear and switchboard apparatus	26.5	26.3	25.8	25.9	25.7
362	Electrical industrial apparatus	95.5	96.6	95.0	94.9	91.2
3621	Motors and generators	54.5	54.5	51.5	51.6	48.3
3622	Industrial controls	27.7	28.1	29.6	29.5	29.3
363	Household appliances	59.0	59.7	62.9	61.7	58.2
3632	Household refrigerators and freezers	9.9	10.2	10.8	10.3	9.3
3633	Household laundry equipment	4.7	4.9	5.1	4.6	3.8
3634	Electric housewares and fans	26.7	26.7	27.9	28.1	27.6
364	Electric lighting and wiring equipment	103.9	104.2	102.9	102.1	98.4
3641	Electric lamps	24.4	24.2	23.0	22.8	22.2

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Apr. 1979	May 1979	Mar. 1980	Apr. 1980	May 1980
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	44.5	45.1	46.6	46.9	46.0
365	Radio and TV receiving equipment	57.9	59.2	58.8	58.6	54.9
3651	Radio and TV receiving sets	43.4	44.3	43.9	44.0	41.1
366	Communication equipment	194.3	195.9	212.5	212.7	211.1
3681	Telephone and telegraph apparatus	80.7	81.1	87.9	87.4	85.9
3682	Radio and TV communication equipment	113.6	114.8	124.6	125.3	125.2
367	Electronic components and accessories	268.7	271.8	292.6	292.7	290.2
3671-3	Electronic tubes	16.1	16.4	17.1	17.2	17.2
3674	Semiconductors and related devices	91.8	92.6	103.4	104.5	104.7
3679	Electronic components, nec	109.7	111.7	117.6	116.9	115.3
369	Misc. electrical equipment and supplies	61.9	61.7	60.1	57.8	54.8
3694	Engine electrical equipment	31.7	31.5	26.9	25.7	23.8
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	326.9	330.9	311.0	297.5	286.4
371	Motor vehicles and car bodies	146.6	150.2	120.0	110.6	101.0
3711	Motor vehicles and car bodies	59.3	61.2	47.1	40.5	40.8
3713	Truck and bus bodies	5.5	5.6	4.4	4.6	4.1
3714	Motor vehicle parts and accessories	78.9	80.5	65.5	62.5	53.3
372	Aircraft and parts	109.6	110.6	119.8	118.6	118.6
3721	Aircraft	62.4	63.1	65.7	64.1	63.7
3724	Aircraft engines and engine parts	24.2	24.2	27.9	28.0	28.2
3728	Aircraft equipment, nec	23.0	23.3	26.2	26.5	26.7
373	Ship and boat building and repairing	24.0	24.5	22.1	21.2	20.4
3731	Ship building and repairing	14.5	15.6	15.5	15.4	15.2
374	Railroad equipment	6.4	6.4	7.0	7.0	6.9
376	Guided missiles, space vehicles, parts	20.9	21.1	23.7	24.0	24.2
3761	Guided missiles and space vehicles	17.4	17.5	19.7	19.9	20.1
379	Miscellaneous transportation equipment	12.5	11.1	10.7	8.4	7.9
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	292.7	292.4	300.8	301.4	298.0
381	Engineering and scientific instruments	22.1	22.2	24.0	24.0	24.0
382	Measuring and controlling devices	100.8	100.7	105.0	105.2	103.4
3822	Environmental controls	24.7	24.4	25.1	24.9	23.9
3823	Process control instruments	16.9	16.8	17.7	17.7	17.6
3825	Instruments to measure electricity	43.0	43.2	45.0	45.4	45.1
383	Optical instruments and lenses	10.5	10.6	12.4	12.2	12.1
384	Medical instruments and supplies	76.0	75.9	78.7	79.5	79.3
3841	Surgical and medical instruments	35.4	35.3	36.6	37.0	37.1
3842	Surgical appliances and supplies	32.5	32.5	34.4	34.8	34.6
385	Ophthalmic goods	26.5	26.7	27.8	28.0	27.6
386	Photographic equipment and supplies	38.3	38.2	37.2	37.1	37.4
387	Watches, clocks, and watchcases	18.5	18.1	15.7	15.4	14.2
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Jewelry, silverware, and plated ware	209.7	209.9	204.6	204.6	200.4
391	Jewelry, silverware, and plated ware	28.0	27.6	25.9	25.5	25.4
393	Musical instruments	11.2	10.9	9.5	9.6	8.4
394	Toys and sporting goods	61.6	63.2	63.2	64.2	63.6
3942, 4	Dolls, games, toys, and children's vehicles	30.5	31.8	30.4	31.2	32.6
3949	Sporting and athletic goods	31.1	31.4	32.8	33.0	31.0
396	Pens, pencils, office and art supplies	21.1	21.1	22.2	22.4	22.1
396	Costume jewelry and notions	35.6	35.1	32.6	32.2	31.3
399	Miscellaneous manufactures	52.2	52.0	51.2	50.7	49.6
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS						
20	Meat products	475.1	482.7	473.9	467.5	471.3
201	Meat products	110.4	111.6	114.9	115.3	117.6
2011	Meat packing plants	26.9	26.8	29.2	29.2	29.5
2013	Sausages and other prepared meats	20.3	21.0	19.9	19.8	20.1
2016	Poultry dressing plants	55.6	56.4	57.7	58.5	60.3
202	Dairy products	35.7	36.3	36.3	36.9	37.5
2026	Fluid milk	17.9	18.2	17.9	18.2	18.6
203	Preserved fruits and vegetables	91.9	96.0	82.1	79.8	81.5
2032	Canned specialties	9.0	8.5	8.3	8.4	7.7
2033	Canned fruits and vegetables	25.3	28.8	24.9	25.2	25.0
2037	Frozen fruits and vegetables	24.4	25.6	19.0	17.3	19.0
204	Grain mill products	26.9	27.3	28.5	28.1	28.1
205	Bakery products	62.3	62.2	61.1	60.8	60.5
2051	Bread, cake, and related products	41.4	41.8	40.3	40.0	40.3
2052	Cookies and crackers	20.9	20.4	20.8	20.8	20.2
206	Sugar and confectionery products	39.2	38.8	40.4	37.5	36.7
207	Fats and oils	5.7	5.7	5.9	5.7	5.8
208	Beverages	37.1	37.3	39.1	39.5	39.6
2082	Malt beverages	6.1	6.2	7.4	7.4	7.3
2086	Bottled and canned soft drinks	17.2	17.4	18.0	18.3	18.7
209	Misc. foods and kindred products	65.9	67.5	65.6	63.9	64.0
TOBACCO MANUFACTURES						
21	Cigarettes	22.9	22.9	22.4	21.3	21.5
211	Cigarettes	13.8	13.8	13.5	13.4	13.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1979	May 1979	Mar. 1980	Apr. 1980	May 1980
22	TEXTILE MILL PRODUCTS	419.4	420.3	422.8	421.3	415.5
221	Weaving mills, cotton	65.6	65.3	67.0	66.7	66.6
222	Weaving mills, synthetics	50.0	50.3	49.9	50.2	49.4
223	Weaving and finishing mills, wool	7.8	7.8	7.7	7.8	7.5
224	Narrow fabric mills	15.2	15.6	15.2	15.1	14.3
225	Knitting mills	146.7	146.4	149.8	149.5	148.9
2251	Women's hosiery, except socks	23.9	24.1	25.0	24.7	24.6
2252	Hosiery, nec	24.2	24.4	24.0	24.1	23.8
2253	Knit outerwear mills	50.1	50.6	52.6	52.7	53.1
2254	Knit underwear mills	25.1	23.9	24.7	24.3	24.5
2257	Circular knit fabric mills	13.2	13.2	13.3	13.3	12.6
226	Textile finishing, except wool	23.1	23.4	22.9	22.9	22.8
2261	Finishing plants, cotton	9.6	9.7	9.5	9.6	9.6
2262	Finishing plants, synthetic	6.8	6.6	6.4	6.5	6.5
227	Floor covering mills	24.0	24.1	23.2	23.3	22.1
228	Yarn and thread mills	65.7	66.1	66.7	65.9	64.8
2281	Yarn mills, except wool	40.1	40.6	41.4	40.9	40.1
2282	Throwing and winding mills	14.9	15.2	14.6	14.7	13.9
229	Miscellaneous textile goods	21.3	21.3	20.4	19.9	19.1
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,075.4	1,076.7	1,070.4	1,060.8	1,055.7
231	Men's and boys' suits and coats	64.2	64.7	59.1	60.1	62.2
232	Men's and boys' furnishings	307.3	310.6	316.6	317.9	319.1
2321	Men's and boys' shirts and nightwear	90.7	91.6	90.0	90.5	91.4
2327	Men's and boys' separate trousers	65.1	65.3	66.3	66.7	66.8
2328	Men's and boys' work clothing	83.5	85.1	90.6	90.9	91.4
233	Women's and misses' outerwear	386.5	380.9	382.1	378.3	371.9
2331	Women's and misses' blouses and waists	57.7	57.6	55.0	55.3	55.0
2335	Women's and misses' dresses	145.3	139.9	145.9	140.5	133.0
2337	Women's and misses' suits and coats	54.3	54.7	48.7	50.1	53.2
2339	Women's and misses' outerwear, nec	129.2	128.7	132.5	132.4	130.7
234	Women's and children's undergarments	80.6	80.3	79.2	78.6	78.2
2341	Women's and children's underwear	64.6	64.6	64.1	63.5	63.3
2342	Brassieres and allied garments	16.0	15.7	15.1	15.1	14.9
236	Children's outerwear	56.2	57.1	55.6	54.7	54.8
2361	Children's dresses and blouses	24.0	24.4	22.5	22.2	22.2
238	Misc. apparel and accessories	46.2	46.6	44.6	44.6	44.5
239	Misc. fabricated textile products	120.3	122.4	119.4	113.1	111.2
2391	Curtains and draperies	22.3	22.4	23.1	22.8	22.4
2392	House furnishings, nec	32.0	32.9	33.8	32.8	32.6
2396	Automotive and apparel trimmings	19.0	18.8	16.7	13.3	13.0
26	PAPER AND ALLIED PRODUCTS	160.4	160.8	160.1	160.4	158.6
261, 2,6	Paper and pulp mills	26.3	26.7	27.4	27.4	27.8
262	Paper mills, except building paper	23.7	24.0	24.4	24.5	24.9
263	Paperboard mills	5.7	5.8	5.9	5.9	5.9
264	Misc. converted paper products	77.0	77.1	76.4	76.4	75.1
265	Paperboard containers and boxes	51.4	51.2	50.4	50.7	49.8
27	PRINTING AND PUBLISHING	474.2	474.4	502.4	501.6	500.8
271	Newspapers	148.0	148.6	160.9	161.0	161.3
272	Periodicals	48.3	48.3	50.2	49.7	49.7
273	Books	55.9	55.2	57.5	57.5	57.0
274	Miscellaneous publishing	25.1	24.0	25.2	25.1	25.8
275	Commercial printing	126.9	127.1	133.1	133.4	132.2
2751	Commercial printing, letterpress	54.8	55.1	56.0	56.5	55.8
2752	Commercial printing, lithographic	66.5	66.5	70.8	70.7	70.4
276	Manifold business forms	14.5	14.7	15.4	15.3	15.1
278	Blankbooks and bookbinding	32.5	33.3	35.1	34.4	34.1
279	Printing trade services	9.3	9.4	10.8	10.9	11.0
28	CHEMICALS AND ALLIED PRODUCTS	266.0	269.1	277.5	277.6	277.6
281	Industrial inorganic chemicals	22.9	23.1	24.6	24.6	24.9
2819	Industrial inorganic chemicals, nec	15.7	15.6	16.2	16.2	16.3
282	Plastics materials and synthetics	43.7	43.7	44.2	44.1	43.4
2821	Plastics materials and resins	10.7	10.9	11.6	11.7	11.7
2824	Organic fibers, noncellulosic	26.9	26.5	25.8	25.5	24.8
283	Drugs	78.7	79.2	82.5	82.8	83.3
2834	Pharmaceutical preparations	67.1	67.3	70.2	70.3	70.4
284	Soap, cleaners, and toilet goods	54.1	55.6	55.7	55.7	55.4
2841	Soap and other detergents	8.7	9.1	8.7	9.2	9.2
2844	Toilet preparations	32.7	33.5	34.2	33.6	33.2
285	Paints and allied products	12.4	12.6	12.9	12.8	12.9
286	Industrial organic chemicals	24.8	25.0	25.9	26.0	25.9
2861,9	Gum, wood, and industrial organic chemicals, nec	20.1	20.3	20.9	21.1	20.9
287	Agricultural chemicals	10.0	10.2	10.8	10.8	11.1
289	Miscellaneous chemical products	19.4	19.7	20.9	20.8	20.7

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	Apr. 1979	May 1979	Mar. 1980	Apr. 1980	May 1980
29	PETROLEUM AND COAL PRODUCTS	25.3	25.6	23.4	23.6	26.8
291	Petroleum refining	20.1	20.5	18.1	18.3	21.6
30	RUBBER AND MISC. PLASTICS PRODUCTS	273.9	276.6	263.1	259.3	244.0
301	Tires and inner tubes	12.4	12.4	10.7	10.6	9.9
302	Rubber and plastics footwear	13.7	13.5	14.1	14.1	13.6
303.4	Reclaimed rubber, and rubber and plastics hose and belting	6.3	6.3	5.7	5.6	5.3
306	Fabricated rubber products, nec	42.7	42.9	38.2	37.8	35.5
307	Miscellaneous plastics products	198.8	201.5	194.4	191.2	179.7
31	LEATHER AND LEATHER PRODUCTS	151.5	155.1	147.8	148.2	147.3
311	Leather tanning and finishing	3.1	3.1	2.8	2.6	2.6
314	Footwear, except rubber	100.3	103.5	99.6	101.8	102.6
3143	Men's footwear, except athletic	37.5	38.3	35.3	36.1	36.0
3144	Women's footwear, except athletic	40.6	42.6	41.9	42.7	43.4
316	Luggage	9.6	9.7	8.3	8.1	7.5
317	Handbags and personal leather goods	23.5	23.9	22.9	21.9	21.3
-	TRANSPORTATION AND PUBLIC UTILITIES	1,201	1,222	1,282	1,281	1,291
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	60.4	62.5	69.0	66.0	69.8
411	Local and suburban transportation	11.0	11.2	13.4	13.0	13.4
412	Taxis	7.1	7.1	7.4	7.4	7.5
413	Intercity highway transportation	4.4	4.6	5.1	5.2	5.3
415	School buses	35.4	36.9	40.4	37.8	41.0
42	TRUCKING AND WAREHOUSING	142.6	149.0	152.2	151.8	150.9
421.3	Trucking and trucking terminals	126.2	133.0	135.6	135.8	134.8
422	Public warehousing	16.4	16.0	16.6	16.0	16.1
44	WATER TRANSPORTATION	19.2	19.4	19.6	19.3	19.1
45	TRANSPORTATION BY AIR	126.6	130.3	145.3	146.3	147.9
451.2	Air transportation	119.2	122.6	137.2	137.9	139.5
46	PIPE LINES, EXCEPT NATURAL GAS	2.1	2.1	2.3	2.4	2.5
47	TRANSPORTATION SERVICES	82.9	84.1	91.9	91.1	91.8
48	COMMUNICATION	609.0	613.5	626.4	629.2	630.9
481	Telephone communication	535.3	538.7	544.5	546.9	548.2
483	Radio and television broadcasting	57.3	58.2	62.9	63.6	63.7
49	ELECTRIC, GAS, AND SANITARY SERVICES	136.5	138.3	149.2	150.7	152.9
491	Electric services	61.7	62.4	68.6	69.5	70.6
492	Gas production and distribution	34.3	34.5	35.5	35.6	36.2
493	Combination utility services	31.4	31.9	34.8	35.2	35.7
495	Sanitary services	4.5	4.7	5.6	5.6	5.6
-	WHOLESALE AND RETAIL TRADE	8,591	8,682	8,750	8,830	8,923
50,51	WHOLESALE TRADE	1,299	1,310	1,358	1,352	1,360
50	WHOLESALE TRADE-DURABLE GOODS	721	728	761	760	761
501	Motor vehicles and automotive equipment	94.3	96.1	93.8	93.2	92.3
502	Furniture and home furnishings	39.7	40.1	44.0	44.4	43.9
503	Lumber and construction materials	32.2	33.4	34.8	34.4	34.3
504	Sporting goods, toys, and hobby goods	22.7	23.3	24.2	24.5	24.6
505	Metals and minerals, except petroleum	27.2	27.3	29.1	29.4	29.8
506	Electrical goods	113.2	113.5	117.7	117.9	118.0
507	Hardware, plumbing, and heating equipment	67.1	67.6	69.4	68.6	67.7
508	Machinery, equipment, and supplies	275.5	276.8	297.9	298.7	300.6
509	Miscellaneous durable goods	49.2	49.5	49.6	49.3	49.8
51	WHOLESALE TRADE-NONDURABLE GOODS	578	582	597	592	599
511	Paper and paper products	42.2	42.7	44.1	44.3	44.6
512	Drugs, proprietaries, and sundries	63.9	64.9	67.1	67.0	66.7
513	Apparel, piece goods, and notions	81.2	81.5	85.8	85.4	85.4
514	Groceries and related products	139.6	142.7	140.5	145.2	150.9
516	Chemicals and allied products	31.3	31.4	32.6	32.1	32.6
517	Petroleum and petroleum products	48.6	49.3	52.8	52.9	54.1
518	Beer, wine, and distilled beverages	20.1	20.2	20.9	20.5	20.7
519	Miscellaneous nondurable goods	112.6	112.3	117.8	113.8	114.6

ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	Apr. 1979	May 1979	Mar. 1980	Apr. 1980	May 1980
52-59	RETAIL TRADE	7,292	7,372	7,392	7,478	7,563
52	BUILDING MATERIALS AND GARDEN SUPPLIES	156.7	157.8	160.2	163.4	165.8
521	Lumber and other building materials	61.8	63.0	63.9	63.9	65.0
526	Hardware stores	51.9	52.7	56.0	56.4	56.5
53	GENERAL MERCHANDISE STORES	1,488.4	1,487.4	1,463.6	1,459.6	1,453.1
531	Department stores	1,190.9	1,187.5	1,175.1	1,167.1	1,156.5
533	Variety stores	213.9	214.8	198.0	201.7	204.4
539	Misc. general merchandise stores	83.6	85.1	90.5	90.8	92.2
54	FOOD STORES	940.0	940.4	993.3	997.1	1,005.8
541	Grocery stores	780.7	784.1	829.5	831.6	840.6
542	Meat markets and freezer provisioners	16.4	16.7	17.2	17.5	17.8
546	Retail bakeries	75.8	75.8	78.6	79.2	79.8
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	311.8	315.6	317.1	318.8	316.6
551,2	New and used car dealers	126.3	126.9	121.2	119.4	116.9
563	Auto and home supply stores	47.0	49.3	46.7	47.3	47.7
564	Gasoline service stations	121.7	122.7	130.2	133.3	133.7
56	APPAREL AND ACCESSORY STORES	647.9	645.6	653.5	657.6	658.4
561	Men's and boys' clothing and furnishings	59.5	59.4	59.9	60.0	59.8
562	Women's ready-to-wear stores	313.0	313.3	310.9	311.8	312.7
565	Family clothing stores	125.6	125.9	133.8	134.6	135.5
566	Shoe stores	78.4	76.2	74.9	77.6	76.9
57	FURNITURE AND HOME FURNISHING STORES	197.0	196.5	203.4	201.5	199.7
571	Furniture and home furnishings	131.3	131.9	134.3	133.8	132.9
572	Household appliance stores	23.7	22.3	22.5	22.3	22.0
573	Radio, television, and music stores	42.0	42.3	46.6	45.4	44.8
58	EATING AND DRINKING PLACES	2,561.0	2,631.9	2,588.1	2,679.0	2,754.4
59	MISCELLANEOUS RETAIL	988.8	997.0	1,012.4	1,001.3	1,008.7
591	Drug stores and proprietary stores	298.5	300.9	314.5	310.1	312.3
592	Liquor stores	29.3	32.9	31.3	30.7	30.6
594	Miscellaneous shopping goods stores	328.0	333.3	350.1	344.5	348.2
596	Nonstore retailers	157.5	152.9	156.5	153.9	149.3
598	Fuel and ice dealers	23.7	23.2	24.3	23.7	23.3
599	Retail stores, nec	129.5	131.8	114.3	117.6	124.3
-	FINANCE, INSURANCE, AND REAL ESTATE	2,828	2,845	3,000	3,009	3,014
60	BANKING	1,030.3	1,034.9	1,085.9	1,087.6	1,089.5
602	Commercial and stock savings banks	949.1	953.4	1,000.4	1,001.9	1,003.4
61	CREDIT AGENCIES OTHER THAN BANKS	353.7	355.8	371.0	368.3	364.2
612	Savings and loan associations	167.7	168.6	176.6	174.9	174.1
614	Personal credit institutions	118.7	119.8	126.3	126.4	123.8
62	SECURITY, COMMODITY BROKERS, AND SERVICES	75.5	75.2	83.1	84.1	84.7
621	Security brokers and dealers	59.4	59.2	65.6	66.2	66.6
63	INSURANCE CARRIERS	709.8	710.5	748.6	750.1	750.6
631	Life insurance	267.2	266.4	290.9	292.6	294.8
632	Medical service and health insurance	97.4	97.8	100.9	101.3	101.3
633	Fire, marine, and casualty insurance	294.9	295.6	307.9	308.5	309.3
64	INSURANCE AGENTS, BROKERS, AND SERVICE	257.9	259.9	276.5	280.1	280.9
65	REAL ESTATE	331.2	337.7	357.5	360.6	366.4
651	Real estate operators and lessors	130.4	131.5	138.5	139.8	142.8
653	Real estate agents and managers	160.9	165.7	170.6	172.0	174.0
656	Subdividers and developers	23.5	23.7	32.8	33.6	34.8
66	COMBINED REAL ESTATE, INSURANCE, ETC.	14.5	14.7	15.3	15.2	14.9
67	HOLDING AND OTHER INVESTMENT OFFICES.	55.4	56.5	62.0	62.7	62.3
-	SERVICES	9,842	9,908	10,207	10,292	10,355
70	HOTELS AND OTHER LODGING PLACES	557.4	573.6	546.8	575.9	595.2
701	Hotels, motels, and tourist courts	540.8	555.8	528.4	556.9	575.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	Apr. 1979	May 1979	Mar. 1980	Apr. 1980	May 1980
72	PERSONAL SERVICES	637.8	624.3	652.2	652.8	638.5
721	Laundry, cleaning, and garment services	225.5	227.9	222.6	222.8	224.4
723	Beauty shops	267.3	264.1	260.1	260.0	262.5
726	Funeral service and crematories	18.0	18.1	19.2	18.9	19.6
73	BUSINESS SERVICES	1,190.7	1,215.2	1,261.5	1,258.8	1,258.6
731	Advertising	65.7	66.1	69.4	68.9	69.4
732	Credit reporting and collection	58.6	58.5	53.2	52.5	51.5
733	Mailing, reproduction, stenographic	53.4	54.0	58.3	59.7	58.4
734	Services to buildings	170.6	173.9	186.7	187.2	186.7
736	Personnel supply services	282.9	295.0	307.1	300.6	303.6
737	Computer and data processing services	122.5	123.4	131.7	134.0	131.7
75	AUTO REPAIR, SERVICES, AND GARAGES	97.0	96.4	99.2	99.8	98.4
753	Automotive repair shops	43.5	43.3	42.7	43.6	42.9
76	MISCELLANEOUS REPAIR SERVICES	56.4	56.5	63.3	63.2	62.4
78	MOTION PICTURES	84.6	85.6	79.7	83.6	83.4
781	Motion picture production and services	25.4	23.6	25.6	26.0	23.9
783	Motion picture theaters	53.6	56.4	48.5	52.0	53.9
79	AMUSEMENT AND RECREATION SERVICES	273.7	290.0	254.5	273.7	301.6
80	HEALTH SERVICES	4,000.9	4,015.0	4,183.8	4,195.5	4,215.8
801	Offices of physicians	555.5	559.9	581.2	583.0	584.7
802	Offices of dentists	273.0	276.1	288.3	288.2	290.1
805	Nursing and personal care facilities	835.5	839.2	869.9	873.9	880.6
806	Hospitals	2,071.7	2,073.6	2,160.4	2,165.5	2,173.2
81	LEGAL SERVICES	316.4	318.0	334.7	336.4	338.5
82	EDUCATIONAL SERVICES	582.0	569.7	599.8	600.5	589.2
821	Elementary and secondary schools	159.3	158.8	167.5	167.5	168.8
822	Colleges and universities	356.9	344.6	363.2	362.7	350.5
83	SOCIAL SERVICES	794.9	810.2	846.9	849.3	864.9
89	MISCELLANEOUS SERVICES	286.1	281.4	320.9	322.8	316.7
891	Engineering and architectural services	99.4	101.5	113.4	114.3	115.0
893	Accounting, auditing, and bookkeeping	132.9	126.3	147.2	148.8	141.5
-	GOVERNMENT	7,608	7,599	7,913	8,007	7,934
-	FEDERAL GOVERNMENT	853	860	908	1,002	945
-	STATE AND LOCAL GOVERNMENT	6,755	6,739	7,005	7,005	6,989
-	State government	1,596.6	1,575.6	1,680.2	1,680.1	1,647.7
-	Hospitals	321.4	319.4	345.8	345.4	347.0
-	State education	656.2	638.0	709.5	707.3	677.7
-	General administration including executive, legislative, and judicial functions	424.0	422.3	420.1	422.6	418.7
-	Local government	5,158.7	5,163.5	5,324.3	5,325.1	5,341.4
-	Transportation and public utilities	87.3	89.2	94.4	96.4	97.3
-	Hospitals	434.8	437.2	469.9	472.1	473.0
-	Local education	3,479.7	3,470.9	3,528.1	3,512.3	3,523.2
-	General administration including executive, legislative, and judicial functions	951.8	956.9	1,007.4	1,019.4	1,021.0

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1979						1980						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^P	July ^P
TOTAL	90,054	90,222	90,283	90,441	90,552	90,678	91,031	91,186	91,144	90,951	90,468	89,973	89,735
GOODS-PRODUCING	26,582	26,528	26,554	26,554	26,504	26,590	26,715	26,623	26,476	26,121	25,745	25,396	25,075
MINING	963	974	976	982	985	992	999	1,007	1,009	1,012	1,023	1,026	1,013
CONSTRUCTION	4,491	4,499	4,507	4,529	4,553	4,615	4,745	4,659	4,529	4,467	4,436	4,371	4,320
MANUFACTURING	21,128	21,055	21,071	21,043	20,966	20,983	20,971	20,957	20,938	20,642	20,286	19,999	19,742
DURABLE GOODS	12,841	12,782	12,822	12,764	12,693	12,706	12,681	12,715	12,707	12,442	12,140	11,933	11,772
Lumber and wood products	766	764	767	768	757	746	743	745	737	689	654	649	651
Furniture and fixtures	499	499	497	498	498	497	497	495	494	491	472	459	443
Stone, clay, and glass products	709	710	708	709	704	704	705	705	700	680	663	647	644
Primary metal industries	1,260	1,250	1,242	1,236	1,230	1,219	1,215	1,214	1,209	1,193	1,144	1,096	1,040
Fabricated metal products	1,726	1,713	1,723	1,723	1,722	1,718	1,707	1,711	1,711	1,678	1,620	1,579	1,528
Machinery, except electrical	2,513	2,509	2,518	2,478	2,460	2,459	2,532	2,529	2,530	2,518	2,517	2,477	2,454
Electric and electronic equipment	2,140	2,109	2,140	2,149	2,150	2,163	2,169	2,168	2,176	2,167	2,127	2,090	2,071
Transportation equipment	2,092	2,089	2,090	2,063	2,033	2,057	1,970	2,006	2,006	1,885	1,819	1,827	1,837
Instruments and related products	691	693	693	696	695	698	699	702	705	703	700	696	693
Miscellaneous manufacturing ind.	445	446	444	444	444	445	444	440	439	438	424	413	411
NONDURABLE GOODS	8,287	8,273	8,249	8,279	8,273	8,277	8,290	8,242	8,231	8,200	8,146	8,066	7,970
Food and kindred products	1,722	1,722	1,712	1,723	1,725	1,724	1,716	1,743	1,704	1,690	1,691	1,677	1,656
Tobacco manufactures	71	70	70	70	64	66	67	68	68	69	70	71	68
Textile mill products	886	883	881	885	887	889	888	888	888	884	869	842	825
Apparel and other textile products	1,316	1,305	1,298	1,302	1,294	1,296	1,305	1,313	1,316	1,302	1,291	1,291	1,269
Paper and allied products	709	708	708	709	708	708	710	709	708	702	692	684	674
Printing and publishing	1,243	1,244	1,245	1,251	1,259	1,261	1,269	1,273	1,274	1,272	1,268	1,269	1,266
Chemicals and allied products	1,112	1,110	1,110	1,114	1,116	1,118	1,121	1,121	1,123	1,123	1,120	1,111	1,099
Petroleum and coal products	208	209	211	212	212	213	214	161	157	175	203	202	203
Rubber and misc. plastic products	781	774	767	766	762	756	755	751	749	740	703	681	672
Leather and leather products	239	248	247	247	246	246	245	245	244	243	239	238	238
SERVICE-PRODUCING	63,472	63,694	63,729	63,887	64,048	64,088	64,316	64,563	64,668	64,830	64,723	64,577	64,660
TRANSPORTATION AND PUBLIC UTILITIES	5,156	5,182	5,185	5,203	5,216	5,212	5,202	5,198	5,202	5,178	5,167	5,134	5,121
WHOLESALE AND RETAIL TRADE	20,254	20,301	20,352	20,414	20,479	20,448	20,529	20,637	20,610	20,531	20,487	20,437	20,496
WHOLESALE TRADE	5,214	5,222	5,228	5,246	5,269	5,251	5,278	5,302	5,301	5,286	5,268	5,241	5,244
RETAIL TRADE	15,040	15,079	15,124	15,168	15,210	15,197	15,251	15,335	15,309	15,245	15,219	15,196	15,252
FINANCE, INSURANCE, AND REAL ESTATE	4,989	5,019	5,017	5,033	5,049	5,064	5,091	5,101	5,115	5,119	5,137	5,150	5,158
SERVICES	17,114	17,152	17,192	17,264	17,308	17,362	17,462	17,540	17,580	17,618	17,659	17,631	17,716
GOVERNMENT	15,959	16,040	15,983	15,973	15,996	16,002	16,032	16,087	16,161	16,384	16,273	16,225	16,169
FEDERAL	2,784	2,811	2,762	2,769	2,773	2,773	2,791	2,826	2,886	3,115	2,960	2,950	2,861
STATE AND LOCAL	13,175	13,229	13,221	13,204	13,223	13,229	13,241	13,261	13,275	13,269	13,313	13,275	13,308

^ppreliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1979								1980				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
TOTAL	36,898	37,021	37,230	37,431	37,350	37,521	37,693	37,739	37,941	38,139	38,157	38,213	38,059
GOODS-PRODUCING	6,919	6,945	6,963	6,912	6,935	6,965	6,967	6,990	7,010	7,017	7,025	6,965	6,832
MINING ¹	89	92	94	95	93	94	95	95	95	97	99	100	102
CONSTRUCTION	352	356	362	362	366	367	371	373	375	377	380	382	382
MANUFACTURING	6,478	6,497	6,507	6,455	6,476	6,504	6,501	6,522	6,540	6,543	6,546	6,483	6,348
DURABLE GOODS	3,092	3,110	3,116	3,077	3,115	3,119	3,120	3,136	3,140	3,141	3,148	3,103	3,008
Lumber and wood products	115	115	114	114	116	116	113	112	111	112	112	104	98
Furnitures and fixtures	146	146	148	148	147	147	147	147	147	146	146	146	140
Stone, clay, and glass products	134	134	134	133	134	134	134	135	135	135	135	132	127
Primary metal industries ¹	135	138	137	135	135	134	134	133	132	132	132	131	123
Fabricated metal products	359	361	361	360	360	361	362	362	362	362	361	352	334
Machinery, except electrical ¹	472	474	477	475	483	483	486	489	500	501	503	500	495
Electric and electronic equipment	897	906	914	898	911	916	918	929	932	933	937	931	906
Transportation equipment ¹	331	331	326	308	324	322	320	320	311	310	311	298	286
Instruments and related products	293	294	294	295	295	296	296	297	298	300	302	301	298
Miscellaneous manufacturing ind.	210	211	211	211	210	210	210	212	212	210	209	208	201
NONDURABLE GOODS	3,386	3,387	3,391	3,378	3,361	3,385	3,381	3,386	3,400	3,402	3,398	3,380	3,340
Food and kindred products	511	511	506	507	499	512	510	511	510	509	503	500	499
Tobacco manufactures	27	26	25	25	26	26	23	23	24	24	24	25	25
Textile mill products	419	420	419	419	419	420	422	424	423	424	424	422	415
Apparel and other textile products	1,068	1,061	1,072	1,057	1,051	1,055	1,050	1,050	1,059	1,064	1,066	1,056	1,047
Paper and allied products	161	161	162	162	161	162	161	161	162	162	162	162	159
Printing and publishing	475	478	482	484	487	490	494	496	500	502	503	502	501
Chemicals and allied products	270	273	273	272	271	274	276	278	278	280	280	280	278
Petroleum and coal products ¹	26	27	27	27	27	27	27	28	28	23	23	24	27
Rubber and misc. plastics products	277	277	281	275	270	269	268	266	267	265	264	261	244
Leather and leather products	152	153	144	150	150	150	150	149	149	149	149	148	145
SERVICE-PRODUCING	29,979	30,076	30,267	30,519	30,415	30,556	30,726	30,749	30,931	31,122	31,132	31,248	31,227
TRANSPORTATION AND PUBLIC UTILITIES	1,221	1,239	1,241	1,249	1,258	1,262	1,274	1,273	1,273	1,280	1,283	1,286	1,290
WHOLESALE AND RETAIL TRADE	8,706	8,718	8,751	8,781	8,804	8,842	8,875	8,846	8,926	8,995	8,973	8,947	8,943
WHOLESALE TRADE	1,316	1,318	1,326	1,327	1,330	1,333	1,341	1,343	1,351	1,361	1,365	1,363	1,365
RETAIL TRADE	7,390	7,400	7,425	7,454	7,474	7,509	7,534	7,503	7,575	7,634	7,608	7,584	7,578
FINANCE, INSURANCE, AND REAL ESTATE	2,855	2,875	2,887	2,906	2,912	2,930	2,941	2,952	2,982	3,001	3,008	3,018	3,023
SERVICES	9,857	9,883	9,924	9,955	9,991	10,031	10,063	10,094	10,150	10,225	10,217	10,261	10,303
GOVERNMENT	7,340	7,361	7,464	7,628	7,450	7,491	7,573	7,584	7,600	7,621	7,651	7,736	7,668
FEDERAL	856	858	859	874	863	864	863	869	873	885	912	1,000	941
STATE AND LOCAL	6,484	6,503	6,605	6,754	6,587	6,627	6,710	6,715	6,727	6,736	6,739	6,736	6,727

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

ESTABLISHMENT DATA

SEASONALLY ADJUSTED EMPLOYMENT

B-6. Production or nonsupervisory workers¹ on private nonagricultural payrolls - by industry division and major manufacturing group, seasonally adjusted

(In thousands)

Industry division and group	1979						1980						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July P
TOTAL PRIVATE	60,545	60,582	60,667	60,795	60,857	60,958	61,206	61,308	61,124	60,725	60,325	59,890	59,760
GOODS-PRODUCING	19,452	19,369	19,386	19,368	19,306	19,382	19,491	19,371	19,181	18,814	18,438	18,120	17,854
MINING	723	731	734	736	737	740	746	750	750	755	764	767	752
CONSTRUCTION	3,589	3,592	3,594	3,607	3,621	3,686	3,814	3,750	3,581	3,509	3,488	3,434	3,380
MANUFACTURING	15,140	15,046	15,058	15,025	14,948	14,956	14,911	14,871	14,850	14,550	14,186	13,919	13,722
DURABLE GOODS	9,173	9,103	9,129	9,069	9,001	9,009	8,953	8,967	8,961	8,686	8,386	8,191	8,064
Lumber and wood products	653	652	654	656	644	633	629	629	621	577	544	539	542
Furniture and fixtures	406	406	405	406	406	405	404	403	401	398	380	367	354
Stone, clay, and glass products	559	559	558	556	553	553	554	553	549	530	513	499	496
Primary metal industries	991	983	975	968	962	952	948	945	941	924	877	832	788
Fabricated metal products	1,306	1,290	1,301	1,299	1,298	1,293	1,282	1,286	1,286	1,252	1,195	1,161	1,116
Machinery, except electrical	1,656	1,644	1,656	1,625	1,613	1,606	1,659	1,649	1,649	1,630	1,622	1,587	1,567
Electric and electronic equipment	1,407	1,377	1,398	1,403	1,397	1,409	1,414	1,408	1,413	1,400	1,358	1,318	1,303
Transportation equipment	1,435	1,430	1,423	1,397	1,371	1,397	1,304	1,336	1,339	1,220	1,159	1,165	1,176
Instruments and related products	420	421	420	421	419	421	421	423	427	423	419	415	415
Miscellaneous manufacturing ind.	340	341	339	338	338	340	338	335	335	332	319	308	307
NONDURABLE GOODS	5,967	5,943	5,929	5,956	5,947	5,947	5,958	5,904	5,889	5,864	5,800	5,728	5,658
Food and kindred products	1,182	1,181	1,172	1,184	1,187	1,188	1,182	1,177	1,169	1,157	1,157	1,145	1,124
Tobacco manufactures	56	55	56	56	49	52	53	53	53	54	55	55	52
Textile mill products	772	769	768	772	773	776	776	775	775	771	756	731	714
Apparel and other textile products	1,131	1,114	1,110	1,114	1,108	1,108	1,117	1,123	1,126	1,111	1,100	1,101	1,090
Paper and allied products	539	538	538	539	538	537	539	538	537	532	522	514	507
Printing and publishing	704	704	706	709	715	714	718	719	717	715	709	711	708
Chemicals and allied products	633	632	633	635	636	637	639	637	636	637	632	622	618
Petroleum and coal products	136	136	137	137	137	138	139	91	88	109	131	129	131
Rubber and misc. plastics products	611	604	599	599	593	589	588	584	582	573	537	519	513
Leather and leather products	203	210	210	211	209	208	207	207	206	205	201	201	201
SERVICE-PRODUCING	41,093	41,213	41,281	41,427	41,551	41,576	41,735	41,937	41,943	41,911	41,887	41,770	41,906
TRANSPORTATION AND PUBLIC UTILITIES	4,318	4,241	4,342	4,360	4,370	4,361	4,347	4,346	4,345	4,320	4,314	4,280	4,270
WHOLESALE AND RETAIL TRADE ..	17,793	17,839	17,878	17,938	17,990	17,970	18,028	18,138	18,098	18,029	17,975	17,916	17,966
WHOLESALE TRADE	4,277	4,284	4,291	4,306	4,321	4,318	4,332	4,348	4,347	4,334	4,308	4,279	4,281
RETAIL TRADE	13,516	13,555	13,587	13,632	13,669	13,652	13,696	13,790	13,751	13,695	13,667	13,637	13,685
FINANCE, INSURANCE, AND REAL ESTATE	3,788	3,812	3,805	3,811	3,819	3,822	3,844	3,860	3,869	3,873	3,893	3,899	3,904
SERVICES	15,194	15,221	15,256	15,318	15,372	15,423	15,516	15,593	15,631	15,680	15,705	15,675	15,766

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

P=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-7. Indexes of diffusion: Percent of industries in which employment¹ increased

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1977				
January.....	72.4	78.5	86.0	79.1
February.....	66.9	84.3	85.8	80.8
March.....	73.5	83.1	84.9	82.3
April.....	72.4	83.4	80.8	83.4
May.....	71.2	76.2	80.2	85.2
June.....	65.1	71.2	77.9	86.0
July.....	64.0	67.7	74.1	84.9
August.....	60.5	72.1	76.7	82.6
September.....	70.1	72.1	79.1	82.3
October.....	65.1	77.6	81.4	82.6
November.....	71.8	78.5	84.6	80.8
December.....	75.0	78.2	82.0	81.7
1978				
January.....	68.6	80.8	82.3	79.7
February.....	68.6	77.3	82.8	82.3
March.....	71.8	80.2	79.9	81.1
April.....	69.8	74.7	74.7	84.6
May.....	61.9	73.0	75.3	83.7
June.....	64.2	66.6	74.7	82.6
July.....	61.0	68.0	73.3	81.1
August.....	67.7	70.1	77.6	79.9
September.....	67.2	74.1	80.5	79.1
October.....	68.0	78.2	82.0	74.1
November.....	75.3	81.1	79.1	76.7
December.....	74.7	81.7	78.2	74.4
1979				
January.....	66.9	75.9	74.7	73.3
February.....	66.3	70.3	71.8	70.6
March.....	62.2	64.0	64.0	69.2
April.....	49.7	60.2	60.5	67.7
May.....	58.1	54.7	53.8	63.4
June.....	57.8	59.9	51.5	58.4
July.....	57.0	53.8	58.1	59.6
August.....	54.4	52.0	55.5	54.9
September.....	52.9	57.6	55.2	50.6
October.....	65.1	61.9	59.3	44.2
November.....	55.2	61.9	63.1	40.4
December.....	53.5	57.3	56.4	36.3p
1980				
January.....	60.2	57.6	42.7	30.2p
February.....	54.9	52.6	38.1	
March.....	45.9	36.6	30.8p	
April.....	28.2	30.8	25.0p	
May.....	29.1	25.0p		
June.....	24.4p	28.2p		
July.....	37.8p			
August.....				
September.....				
October.....				
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)

	Total			Mining			Construction			Manufacturing		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
1 ALABAMA	1,366.6	1,360.2	(*)	16.9	17.1	(*)	79.4	67.9	(*)	376.4	363.7	(*)
2 Birmingham	358.8	(*)	(*)	10.0	(*)	(*)	22.8	(*)	(*)	71.0	(*)	(*)
3 Huntsville	119.7	120.0	(*)	(1)	(1)	(*)	4.8	4.3	(*)	35.6	35.4	(*)
4 Mobile	148.5	147.9	(*)	(1)	(1)	(*)	10.7	9.2	(*)	29.1	29.6	(*)
5 Montgomery	109.3	107.7	(*)	(1)	(1)	(*)	9.3	7.8	(*)	16.5	16.6	(*)
6 Tuscaloosa	49.2	50.4	(*)	1.3	1.8	(*)	3.1	2.4	(*)	9.3	8.7	(*)
7 ALASKA	174.4	169.3	(*)	6.1	6.3	(*)	11.3	9.5	(*)	15.2	13.5	(*)
8 ARIZONA	954.1	1,003.1	(*)	21.7	24.0	(*)	82.1	72.7	(*)	142.1	151.3	(*)
9 Phoenix	598.7	629.2	(*)	.2	.3	(*)	53.6	48.4	(*)	105.2	111.3	(*)
10 Tucson	171.0	182.1	(*)	6.7	7.5	(*)	14.6	13.3	(*)	18.2	20.4	(*)
11 ARKANSAS	755.1	751.4	747.6	4.9	4.7	4.7	44.8	37.1	38.7	221.1	207.2	207.8
12 Fayetteville—Springdale	63.5	66.0	64.3	(1)	(1)	(1)	3.5	3.4	3.5	19.9	19.0	18.9
13 Fort Smith	68.9	67.3	65.8	.7	.8	.8	3.4	2.9	2.9	25.2	21.5	21.1
14 Little Rock—North Little Rock	182.3	182.0	182.4	(1)	(1)	(1)	10.4	9.4	9.7	32.2	30.4	30.1
15 Pine Bluff	31.9	32.1	31.8	(1)	(1)	(1)	3.0	3.1	3.3	6.2	6.0	6.0
16 CALIFORNIA	9,707.0	9,803.8	(*)	39.8	40.8	(*)	468.4	423.8	(*)	2,004.4	1,973.8	(*)
17 Anaheim—Santa Ana—Garden Grove	815.6	834.3	(*)	2.3	2.2	(*)	51.8	46.9	(*)	217.4	219.7	(*)
18 Bakersfield	128.2	128.2	(*)	10.7	10.9	(*)	7.1	6.3	(*)	9.3	9.6	(*)
19 Fresno	182.3	186.1	(*)	.9	.9	(*)	13.2	13.1	(*)	23.5	22.7	(*)
20 Los Angeles—Long Beach	3,601.6	3,663.8	(*)	11.9	12.2	(*)	119.8	112.5	(*)	933.9	923.8	(*)
21 Modesto	86.2	87.5	(*)	.1	.1	(*)	6.9	6.4	(*)	18.3	17.8	(*)
22 Oxnard—Simi Valley—Ventura	147.5	150.5	(*)	2.4	2.4	(*)	8.5	8.1	(*)	23.2	24.0	(*)
23 Riverside—San Bernardino—Ontario	430.9	446.8	(*)	2.7	2.5	(*)	29.9	29.7	(*)	67.1	67.0	(*)
24 Sacramento	394.2	404.4	(*)	.4	.4	(*)	24.9	23.0	(*)	26.5	26.4	(*)
25 Salinas—Seaside—Monterey	89.3	87.3	(*)	.7	.7	(*)	3.8	2.9	(*)	10.7	9.1	(*)
26 San Diego	638.1	647.9	(*)	.7	.7	(*)	41.3	36.8	(*)	101.7	102.7	(*)
27 San Francisco—Oakland	1,528.6	1,535.1	(*)	2.4	2.5	(*)	75.2	72.7	(*)	207.4	201.8	(*)
28 San Jose	635.8	655.2	(*)	.1	.2	(*)	26.6	24.8	(*)	221.6	231.4	(*)
29 Santa Barbara—Santa Maria—Lompoc	120.1	120.8	(*)	1.2	1.2	(*)	5.4	5.2	(*)	16.9	16.0	(*)
30 Santa Rosa	90.1	90.0	(*)	.5	.4	(*)	6.6	5.4	(*)	14.0	14.2	(*)
31 Stockton	118.7	119.6	(*)	.1	.1	(*)	6.6	6.1	(*)	20.5	20.2	(*)
32 Vallejo—Fairfield—Napa	98.7	98.3	(*)	.3	.3	(*)	5.2	4.7	(*)	11.0	10.1	(*)
33 COLORADO	1,229.5	1,251.8	1,259.7	30.6	32.6	33.5	83.9	79.4	81.3	180.4	181.0	182.8
34 Denver—Boulder	784.6	802.8	806.4	16.2	17.3	17.8	50.2	46.2	47.5	123.8	126.3	127.1
35 CONNECTICUT	1,419.4	1,415.0	(*)	(2)	(2)	(*)	55.7	45.9	(*)	439.4	438.1	(*)
36 Bridgeport	166.8	168.2	(*)	(2)	(2)	(*)	6.3	5.5	(*)	65.5	65.4	(*)
37 Hartford	391.3	399.4	(*)	(2)	(2)	(*)	13.5	11.9	(*)	96.3	99.7	(*)
38 New Britain	60.3	62.4	(*)	(2)	(2)	(*)	2.3	1.9	(*)	27.5	29.2	(*)
39 New Haven—West Haven	190.3	192.8	(*)	(2)	(2)	(*)	7.5	5.3	(*)	47.0	43.7	(*)
40 Stamford	108.2	108.7	(*)	(2)	(2)	(*)	5.1	4.7	(*)	31.3	31.9	(*)
41 Waterbury	90.2	89.4	(*)	(2)	(2)	(*)	3.5	3.5	(*)	34.1	31.7	(*)
42 DELAWARE	261.0	259.5	(*)	(1)	(1)	(*)	16.3	14.0	(*)	71.7	70.1	(*)
43 Wilmington	227.3	223.8	(*)	(1)	(1)	(*)	15.8	12.9	(*)	64.9	63.3	(*)
44 DISTRICT OF COLUMBIA	621.2	619.5	622.1	(1)	(1)	(1)	14.9	14.4	14.5	15.4	15.5	15.5
45 Washington SMSA	1,528.7	1,529.1	1,538.5	(1)	(1)	(1)	83.4	73.9	74.9	53.8	54.8	54.9
46 FLORIDA	3,380.3	(*)	(*)	10.0	(*)	(*)	245.1	(*)	(*)	436.3	(*)	(*)
47 Bradenton	42.0	(*)	(*)	(*)	(*)	(*)	3.6	(*)	(*)	7.1	(*)	(*)
48 Daytona Beach	75.7	(*)	(*)	(1)	(*)	(*)	4.6	(*)	(*)	8.1	(*)	(*)
49 Fort Lauderdale—Hollywood	320.9	(*)	(*)	(1)	(*)	(*)	26.8	(*)	(*)	39.5	(*)	(*)
50 Fort Myers—Cape Coral	60.6	(*)	(*)	(1)	(*)	(*)	7.9	(*)	(*)	3.8	(*)	(*)
51 Gainesville	63.2	(*)	(*)	(1)	(*)	(*)	3.1	(*)	(*)	3.8	(*)	(*)
52 Jacksonville	287.2	(*)	(*)	(1)	(*)	(*)	16.3	(*)	(*)	34.6	(*)	(*)
53 Lakeland—Winter Haven	109.8	(*)	(*)	5.6	(*)	(*)	8.4	(*)	(*)	19.5	(*)	(*)
54 Melbourne—Titusville—Cocoa	97.7	(*)	(*)	(1)	(*)	(*)	6.9	(*)	(*)	19.9	(*)	(*)
55 Miami	698.2	(*)	(*)	(1)	(*)	(*)	36.7	(*)	(*)	100.8	(*)	(*)
56 Orlando	272.6	(*)	(*)	(1)	(*)	(*)	18.3	(*)	(*)	35.0	(*)	(*)
57 Panama City	33.7	(*)	(*)	(1)	(*)	(*)	2.3	(*)	(*)	3.1	(*)	(*)
58 Pensacola	96.0	(*)	(*)	(1)	(*)	(*)	6.7	(*)	(*)	13.3	(*)	(*)
59 Sarasota	67.3	(*)	(*)	(1)	(*)	(*)	7.3	(*)	(*)	6.2	(*)	(*)
60 Tallahassee	70.7	(*)	(*)	(1)	(*)	(*)	3.5	(*)	(*)	2.6	(*)	(*)
61 Tampa—St. Petersburg	517.8	(*)	(*)	(1)	(*)	(*)	35.7	(*)	(*)	72.9	(*)	(*)
62 West Palm Beach—Boca Raton	190.1	(*)	(*)	(1)	(*)	(*)	18.1	(*)	(*)	25.7	(*)	(*)

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			
JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	
72.2	72.2	(*)	275.	277.0	(*)	59.2	57.7	(*)	199.0	200.6	(*)	288.2	304.0	(*)	1
28.7	(*)	(*)	85.1	(*)	(*)	22.9	(*)	(*)	64.6	(*)	(*)	53.7	(*)	(*)	2
2.8	2.7	(*)	22.1	22.4	(*)	3.4	3.4	(*)	17.4	17.4	(*)	33.6	34.4	(*)	3
10.8	11.0	(*)	36.7	36.7	(*)	7.1	7.4	(*)	28.4	27.8	(*)	25.7	26.2	(*)	4
4.9	4.6	(*)	24.0	23.6	(*)	6.1	6.0	(*)	19.3	19.6	(*)	29.2	29.5	(*)	5
1.9	1.7	(*)	9.	9.7	(*)	1.7	1.7	(*)	5.9	6.4	(*)	16.4	18.0	(*)	6
17.7	17.1	(*)	30.6	29.2	(*)	8.8	8.2	(*)	30.6	30.3	(*)	54.1	55.2	(*)	7
48.7	49.1	(*)	229.8	241.1	(*)	54.4	56.6	(*)	188.7	197.2	(*)	186.6	211.1	(*)	8
29.0	29.2	(*)	152.6	161.4	(*)	41.8	48.7	(*)	120.5	128.1	(*)	95.8	106.8	(*)	9
8.9	8.6	(*)	38.6	40.2	(*)	7.9	8.2	(*)	35.5	37.7	(*)	40.6	46.2	(*)	10
44.5	43.2	43.4	164.5	163.1	163.9	31.5	32.1	32.5	113.0	116.4	116.5	130.8	147.5	140.1	11
3.8	4.0	4.1	15.7	16.4	16.3	2.2	2.3	2.4	8.3	8.7	8.7	10.1	12.2	10.4	12
3.9	3.7	3.7	14.8	15.0	14.9	2.5	2.6	2.6	11.3	11.1	11.2	7.1	9.7	8.6	13
14.5	13.7	13.7	42.4	41.4	41.6	12.5	12.5	12.6	33.8	35.1	35.5	36.5	39.5	39.0	14
4.1	3.8	3.8	6.4	6.3	6.3	1.3	1.3	1.4	5.0	5.0	4.9	5.9	6.6	6.1	15
539.0	546.5	(*)	2,214.8	2,248.5	(*)	592.5	610.3	(*)	2,066.6	2,154.7	(*)	1,781.5	1,805.4	(*)	18
26.3	27.3	(*)	196.1	203.2	(*)	52.4	54.9	(*)	164.3	168.7	(*)	105.0	111.4	(*)	17
7.6	7.8	(*)	33.0	33.1	(*)	4.6	4.5	(*)	22.6	22.6	(*)	33.3	33.4	(*)	18
10.8	10.7	(*)	47.9	48.1	(*)	10.5	11.1	(*)	35.1	36.7	(*)	40.4	42.8	(*)	19
201.4	203.4	(*)	811.3	830.0	(*)	223.3	225.6	(*)	804.5	842.5	(*)	495.5	513.8	(*)	20
3.8	3.8	(*)	21.1	22.3	(*)	3.4	3.5	(*)	16.1	16.6	(*)	16.5	17.0	(*)	21
6.0	6.2	(*)	34.9	34.7	(*)	6.9	6.9	(*)	28.7	29.4	(*)	36.9	38.8	(*)	22
23.7	24.3	(*)	103.2	108.2	(*)	18.5	19.3	(*)	87.0	92.4	(*)	98.8	103.4	(*)	23
21.5	21.9	(*)	92.1	96.3	(*)	20.4	21.3	(*)	70.7	75.3	(*)	137.7	139.8	(*)	24
4.8	4.9	(*)	22.7	22.3	(*)	4.2	4.4	(*)	19.3	19.3	(*)	23.1	23.7	(*)	25
28.0	28.2	(*)	144.	146.6	(*)	37.0	37.8	(*)	142.9	148.2	(*)	141.8	146.9	(*)	26
127.3	126.8	(*)	351.6	353.6	(*)	140.2	142.7	(*)	333.7	340.4	(*)	290.8	294.6	(*)	27
21.0	21.1	(*)	118.6	123.3	(*)	25.6	26.2	(*)	141.6	147.3	(*)	80.7	80.9	(*)	28
4.8	4.7	(*)	30.2	30.9	(*)	5.4	5.4	(*)	31.8	32.9	(*)	24.4	24.5	(*)	29
4.5	4.6	(*)	21.6	22.1	(*)	5.4	5.5	(*)	17.4	17.3	(*)	20.1	20.5	(*)	30
8.9	8.9	(*)	27.2	27.1	(*)	4.8	5.0	(*)	22.9	24.1	(*)	27.7	28.1	(*)	31
4.7	4.5	(*)	20.6	20.9	(*)	3.4	3.4	(*)	17.7	18.8	(*)	35.8	35.6	(*)	32
76.9	77.0	77.6	300.6	302.3	304.4	74.7	77.7	78.1	244.6	251.3	256.3	237.6	249.5	245.7	33
54.5	54.4	54.8	190.9	192.4	193.3	53.8	56.3	56.5	162.1	167.8	169.7	133.0	142.1	139.7	34
62.4	62.4	(*)	298.7	299.6	(*)	101.1	102.1	(*)	278.3	282.0	(*)	183.9	184.9	(*)	35
6.2	6.2	(*)	33.8	34.5	(*)	7.0	6.9	(*)	31.2	32.7	(*)	16.8	17.0	(*)	36
15.7	16.0	(*)	81.5	83.0	(*)	57.2	59.3	(*)	72.8	74.6	(*)	54.3	54.9	(*)	37
1.5	1.5	(*)	10.7	10.8	(*)	1.8	1.9	(*)	9.7	10.2	(*)	6.6	6.9	(*)	38
16.8	16.1	(*)	40.5	41.3	(*)	10.0	10.5	(*)	49.2	48.6	(*)	24.0	27.3	(*)	39
3.8	4.0	(*)	24.6	24.6	(*)	7.5	7.2	(*)	26.2	26.8	(*)	9.7	9.5	(*)	40
3.2	3.2	(*)	15.8	15.7	(*)	3.4	3.5	(*)	18.8	19.7	(*)	11.5	12.1	(*)	41
12.9	12.7	(*)	57.5	57.0	(*)	12.0	11.8	(*)	46.7	47.1	(*)	44.0	46.8	(*)	42
12.2	12.1	(*)	46.2	44.4	(*)	11.0	10.8	(*)	41.1	41.4	(*)	36.0	38.9	(*)	43
25.9	25.7	25.8	65.6	64.2	64.7	34.9	34.4	34.6	173.5	178.4	178.2	291.0	286.9	288.8	44
67.2	67.4	67.0	286.6	283.0	285.4	90.4	90.8	91.8	393.7	404.0	407.9	553.6	555.2	556.6	45
209.2	(*)	(*)	888.6	(*)	(*)	233.3	(*)	(*)	737.6	(*)	(*)	620.2	(*)	(*)	46
1.4	(*)	(*)	11.9	(*)	(*)	2.5	(*)	(*)	7.9	(*)	(*)	7.6	(*)	(*)	47
3.1	(*)	(*)	21.1	(*)	(*)	4.2	(*)	(*)	20.9	(*)	(*)	13.7	(*)	(*)	48
16.0	(*)	(*)	91.4	(*)	(*)	26.7	(*)	(*)	76.2	(*)	(*)	44.3	(*)	(*)	49
3.5	(*)	(*)	17.2	(*)	(*)	5.2	(*)	(*)	12.4	(*)	(*)	10.6	(*)	(*)	50
1.6	(*)	(*)	13.9	(*)	(*)	2.8	(*)	(*)	10.4	(*)	(*)	27.6	(*)	(*)	51
23.4	(*)	(*)	73.7	(*)	(*)	27.6	(*)	(*)	57.7	(*)	(*)	53.9	(*)	(*)	52
5.0	(*)	(*)	26.5	(*)	(*)	6.0	(*)	(*)	21.6	(*)	(*)	17.2	(*)	(*)	53
4.3	(*)	(*)	20.9	(*)	(*)	3.9	(*)	(*)	23.2	(*)	(*)	18.6	(*)	(*)	54
68.7	(*)	(*)	181.2	(*)	(*)	49.2	(*)	(*)	165.0	(*)	(*)	96.6	(*)	(*)	55
13.5	(*)	(*)	74.5	(*)	(*)	17.5	(*)	(*)	71.2	(*)	(*)	42.6	(*)	(*)	56
1.7	(*)	(*)	9.4	(*)	(*)	1.9	(*)	(*)	6.4	(*)	(*)	8.9	(*)	(*)	57
5.0	(*)	(*)	22.2	(*)	(*)	4.6	(*)	(*)	19.2	(*)	(*)	25.0	(*)	(*)	58
7.8	(*)	(*)	19.	(*)	(*)	5.5	(*)	(*)	16.2	(*)	(*)	9.8	(*)	(*)	59
2.3	(*)	(*)	14.0	(*)	(*)	3.0	(*)	(*)	10.0	(*)	(*)	35.3	(*)	(*)	60
29.0	(*)	(*)	141.6	(*)	(*)	36.1	(*)	(*)	120.7	(*)	(*)	81.8	(*)	(*)	61
8.2	(*)	(*)	48.0	(*)	(*)	15.6	(*)	(*)	45.1	(*)	(*)	29.4	(*)	(*)	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		
		JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
1	GEORGIA	2,119.3	2,134.2	2,124.5	7.8	7.5	7.6	100.2	97.6	98.7	529.0	515.7	539.4
2	Albany	44.1	45.6	45.9	(1)	(1)	(1)	4.4	3.4	3.6	10.5	11.1	10.8
3	Atlanta	932.9	943.8	929.5	(1)	(1)	(1)	41.9	38.5	39.3	141.0	141.2	133.8
4	Augusta	120.7	121.4	120.7	(1)	(1)	(1)	6.5	5.9	5.7	36.6	36.2	36.0
5	Columbus	82.5	83.1	83.3	(1)	(1)	(1)	4.2	3.8	4.0	21.7	21.8	21.8
6	Macon	96.9	95.3	95.3	(1)	(1)	(1)	4.7	4.1	4.1	16.0	15.7	15.7
7	Savannah	86.5	83.7	83.5	(1)	(1)	(1)	5.3	4.4	4.3	16.9	16.0	16.1
8	HAWAII	395.9	408.7	(*)	(1)	(1)	(*)	22.9	23.1	(*)	25.1	23.0	(*)
9	Honolulu	328.0	337.7	(*)	(1)	(1)	(*)	18.5	18.0	(*)	18.9	16.4	(*)
10	IDAHO	342.7	(*)	(*)	4.3	(*)	(*)	20.5	(*)	(*)	60.1	(*)	(*)
11	Boise City	84.4	(*)	(*)	(1)	(*)	(*)	6.4	(*)	(*)	9.9	(*)	(*)
12	ILLINOIS	4,840.6	(*)	(*)	31.2	(*)	(*)	196.3	(*)	(*)	1,285.3	(*)	(*)
13	Bloomington—Normal	48.5	(*)	(*)	(2)	(*)	(*)	1.8	(*)	(*)	7.7	(*)	(*)
14	Champaign—Urbana—Rantoul	69.0	(*)	(*)	(2)	(*)	(*)	2.4	(*)	(*)	8.0	(*)	(*)
15	Chicago—Gary	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
16	Chicago SMSA ²	3,255.7	(*)	(*)	5.0	(*)	(*)	119.6	(*)	(*)	861.4	(*)	(*)
17	Davenport—Rock Island—Moline	167.6	(*)	(*)	(2)	(*)	(*)	7.7	(*)	(*)	51.8	(*)	(*)
18	Decatur	54.6	(*)	(*)	(2)	(*)	(*)	2.8	(*)	(*)	20.1	(*)	(*)
19	Kankakee	35.4	(*)	(*)	(2)	(*)	(*)	1.4	(*)	(*)	10.2	(*)	(*)
20	Peoria	156.8	(*)	(*)	(2)	(*)	(*)	8.3	(*)	(*)	53.0	(*)	(*)
21	Rockford	125.0	(*)	(*)	(2)	(*)	(*)	3.7	(*)	(*)	57.9	(*)	(*)
22	Springfield	85.0	(*)	(*)	(2)	(*)	(*)	3.1	(*)	(*)	7.3	(*)	(*)
23	INDIANA	2,285.2	2,232.7	(*)	11.2	11.1	(*)	116.3	108.3	(*)	753.5	686.1	(*)
24	Anderson	54.1	(*)	(*)	(1)	(*)	(*)	1.5	(*)	(*)	25.4	(*)	(*)
25	Eikhart	79.7	72.9	(*)	-	-	(*)	2.6	2.2	(*)	43.1	37.7	(*)
26	Evansville	132.4	127.2	(*)	3.0	2.7	(*)	8.6	7.2	(*)	39.9	36.3	(*)
27	Fort Wayne	187.0	179.9	(*)	(1)	(1)	(*)	8.6	8.0	(*)	64.0	58.5	(*)
28	Gary—Hammond—East Chicago ³	274.3	263.8	(*)	(1)	(1)	(*)	20.5	19.2	(*)	107.5	95.3	(*)
29	Indianapolis	545.2	(*)	(*)	(1)	(*)	(*)	26.7	(*)	(*)	135.6	(*)	(*)
30	Lafayette—West Lafayette	55.5	56.6	(*)	(1)	(1)	(*)	2.5	2.2	(*)	12.8	11.5	(*)
31	Muncie	50.7	50.8	(*)	(1)	(1)	(*)	2.3	1.9	(*)	15.2	13.3	(*)
32	South Bend	116.4	113.1	(*)	(1)	(1)	(*)	5.2	4.9	(*)	34.3	31.4	(*)
33	Terre Haute	67.4	65.7	(*)	1.4	1.5	(*)	4.2	3.6	(*)	17.6	16.3	(*)
34	IOWA	1,141.9	1,125.3	1,107.0	2.7	2.5	2.5	64.5	48.5	50.3	263.3	244.3	239.1
35	Cedar Rapids	85.8	86.0	85.0	(1)	(1)	(1)	4.2	3.6	3.7	29.9	28.6	27.6
36	Des Moines	184.8	179.3	180.3	(1)	(1)	(1)	8.9	6.8	7.5	27.0	24.5	25.1
37	Dubuque	45.3	44.9	43.7	(1)	(1)	(1)	2.0	1.6	1.7	17.0	16.8	15.9
38	Sioux City	50.3	50.1	49.8	(1)	(1)	(1)	2.7	2.4	2.5	9.2	8.7	9.6
39	Waterloo—Cedar Falls	67.2	68.8	67.9	(1)	(1)	(1)	3.4	3.4	3.8	23.6	24.2	23.9
40	KANSAS	957.6	955.5	953.7	14.1	14.7	15.0	55.7	51.3	52.5	200.8	187.2	183.1
41	Lawrence	27.2	29.3	27.4	(2)	(2)	(2)	1.5	1.3	1.3	4.9	4.9	4.7
42	Topeka	88.5	88.3	88.2	.2	.2	.2	4.0	4.2	4.2	12.2	10.0	10.1
43	Wichita	205.4	208.5	207.3	2.3	2.7	2.8	11.1	10.3	10.3	65.8	65.6	63.5
44	KENTUCKY	1,259.8	1,229.1	(*)	55.5	55.0	(*)	76.1	60.7	(*)	298.4	281.4	(*)
45	Lexington—Fayette	150.0	149.4	(*)	(1)	(1)	(*)	9.9	10.0	(*)	31.1	29.2	(*)
46	Louisville	408.0	(*)	(*)	(1)	(*)	(*)	22.1	(*)	(*)	110.0	(*)	(*)
47	Owensboro	30.5	30.3	(*)	.8	.8	(*)	2.1	2.0	(*)	7.1	6.5	(*)
48	LOUISIANA	1,494.1	1,521.1	1,530.9	74.4	80.1	82.0	125.6	128.5	134.2	215.5	207.6	209.6
49	Alexandria	49.8	51.2	50.1	(1)	(1)	(1)	3.1	2.9	2.9	6.2	5.9	6.0
50	Baton Rouge	185.6	193.7	195.9	.9	.9	.9	21.2	22.7	24.2	26.1	25.8	25.8
51	Lafayette	72.5	74.0	74.9	13.0	12.9	13.1	6.1	6.4	6.6	3.5	3.6	3.8
52	Lake Charles	64.2	61.2	63.8	1.8	1.9	1.9	8.4	4.7	7.7	12.9	13.1	13.1
53	Monroe	49.8	48.4	47.8	.5	.5	.5	3.9	3.8	3.8	8.6	7.6	7.7
54	New Orleans	490.1	496.7	495.9	16.0	16.7	16.8	30.1	30.6	30.4	55.3	53.7	54.1
55	Shreveport	146.3	144.2	146.2	4.8	4.8	4.8	11.1	7.8	7.6	28.0	26.6	26.7
56	MAINE	426.8	415.9	(*)	(1)	(1)	(*)	21.2	18.5	(*)	117.0	111.4	(*)
57	Lewiston—Auburn	35.2	36.3	(*)	(1)	(1)	(*)	1.6	1.7	(*)	12.3	12.3	(*)
58	Portland	91.7	92.0	(*)	(1)	(1)	(*)	4.4	3.7	(*)	18.2	17.9	(*)
59	MARYLAND	1,652.0	1,639.9	(*)	(1)	(1)	(*)	109.4	96.7	(*)	249.2	237.7	(*)
60	Baltimore	909.8	904.7	(*)	(1)	(1)	(*)	53.5	48.8	(*)	167.1	159.0	(*)

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	
136.7	137.8	137.4	491.6	499.7	498.2	107.2	108.7	109.2	328.3	341.2	342.0	418.8	426.0	422.0	1
2.0	2.2	2.2	9.5	10.1	10.1	1.9	2.3	2.4	6.2	6.5	6.6	9.7	10.1	10.2	2
85.8	85.5	85.4	256.2	260.1	257.9	64.3	64.3	64.4	187.9	194.8	192.8	156.0	159.4	155.9	3
4.4	4.4	4.4	22.5	22.8	22.8	4.6	4.6	4.7	15.9	16.3	16.1	30.3	31.2	31.1	4
3.5	3.5	3.5	17.6	16.6	16.4	5.2	5.2	5.2	11.4	11.4	11.5	18.9	20.8	20.8	5
4.9	4.8	4.8	20.3	19.7	20.0	5.8	5.6	5.6	16.0	16.4	16.4	29.3	29.0	28.8	6
8.8	8.6	8.4	19.9	19.3	19.3	4.1	4.1	4.1	15.2	15.7	15.7	16.3	15.7	15.6	7
30.3	30.5	(*)	103.4	106.9	(*)	30.3	31.1	(*)	96.4	104.1	(*)	87.5	90.0	(*)	8
25.2	25.4	(*)	86.	89.5	(*)	26.3	27.0	(*)	78.6	84.7	(*)	74.4	76.7	(*)	9
20.6	(*)	(*)	83.3	(*)	(*)	23.1	(*)	(*)	61.7	(*)	(*)	69.1	(*)	(*)	10
5.4	(*)	(*)	21.5	(*)	(*)	9.1	(*)	(*)	14.8	(*)	(*)	17.3	(*)	(*)	11
291.8	(*)	(*)	1,103.9	(*)	(*)	291.9	(*)	(*)	900.0	(*)	(*)	740.2	(*)	(*)	12
3.3	(*)	(*)	10.9	(*)	(*)	8.1	(*)	(*)	8.4	(*)	(*)	8.3	(*)	(*)	13
2.5	(*)	(*)	17.4	(*)	(*)	2.2	(*)	(*)	9.9	(*)	(*)	26.6	(*)	(*)	14
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	15
201.1	(*)	(*)	755.7	(*)	(*)	221.5	(*)	(*)	637.9	(*)	(*)	453.4	(*)	(*)	18
8.6	(*)	(*)	40.3	(*)	(*)	7.1	(*)	(*)	25.1	(*)	(*)	27.0	(*)	(*)	17
5.1	(*)	(*)	10.6	(*)	(*)	2.8	(*)	(*)	8.3	(*)	(*)	4.9	(*)	(*)	18
1.5	(*)	(*)	7.8	(*)	(*)	1.1	(*)	(*)	6.5	(*)	(*)	6.9	(*)	(*)	19
8.4	(*)	(*)	36.5	(*)	(*)	7.0	(*)	(*)	26.4	(*)	(*)	17.2	(*)	(*)	20
5.1	(*)	(*)	25.1	(*)	(*)	4.2	(*)	(*)	16.5	(*)	(*)	12.5	(*)	(*)	21
5.6	(*)	(*)	19.2	(*)	(*)	6.9	(*)	(*)	15.6	(*)	(*)	27.3	(*)	(*)	22
113.1	109.6	(*)	504.3	497.6	(*)	102.3	102.4	(*)	338.5	350.9	(*)	346.0	366.7	(*)	23
1.6	(*)	(*)	10.8	(*)	(*)	1.7	(*)	(*)	7.1	(*)	(*)	6.0	(*)	(*)	24
2.4	2.3	(*)	15.3	14.5	(*)	2.1	2.1	(*)	9.1	8.8	(*)	5.1	5.3	(*)	25
7.1	6.9	(*)	32.5	32.1	(*)	4.5	6.5	(*)	24.4	24.5	(*)	12.4	13.0	(*)	26
11.6	11.6	(*)	44.9	43.9	(*)	10.6	10.6	(*)	29.1	29.0	(*)	18.2	18.3	(*)	27
16.3	15.7	(*)	55.4	55.0	(*)	9.7	9.6	(*)	34.6	35.3	(*)	30.3	33.7	(*)	28
32.5	(*)	(*)	135.9	(*)	(*)	38.4	(*)	(*)	90.2	(*)	(*)	85.9	(*)	(*)	29
1.7	1.6	(*)	11.	11.4	(*)	2.9	2.6	(*)	9.1	9.0	(*)	14.8	18.3	(*)	30
2.1	2.0	(*)	12.2	12.5	(*)	1.6	1.6	(*)	7.8	8.1	(*)	9.5	11.4	(*)	31
5.4	5.0	(*)	29.7	28.9	(*)	5.4	5.3	(*)	23.6	24.5	(*)	12.8	13.1	(*)	32
4.2	3.9	(*)	16.9	16.5	(*)	2.2	2.1	(*)	9.6	9.6	(*)	11.3	12.2	(*)	33
59.5	58.1	58.1	288.7	286.2	283.7	57.8	58.9	59.2	199.9	210.2	204.2	205.5	216.7	210.1	34
4.2	3.9	3.9	18.2	19.5	19.4	4.4	4.5	4.5	15.3	15.5	15.5	9.7	10.3	10.4	35
12.1	11.6	11.6	49.1	47.8	47.6	20.3	20.0	20.1	39.3	39.1	39.5	28.0	29.5	29.0	36
1.7	1.6	1.6	9.0	8.8	8.7	1.2	1.2	1.2	10.2	10.4	10.3	4.2	4.5	4.2	37
4.2	4.0	4.0	13.	13.5	13.4	2.9	2.9	2.9	11.2	11.7	11.7	7.0	6.9	6.8	38
2.7	2.7	2.8	14.2	13.6	13.6	2.1	2.1	2.1	11.1	11.3	11.4	10.1	11.6	10.4	39
66.7	65.4	66.1	227.8	227.1	227.2	46.3	46.6	47.2	164.8	172.6	174.5	181.4	190.6	188.1	40
1.5	1.4	1.5	5.7	5.8	5.7	.9	.9	.9	3.5	3.7	3.7	9.2	11.3	9.6	41
7.5	7.5	7.6	19.1	19.1	19.1	6.1	6.2	6.3	16.9	17.4	17.5	22.5	22.8	23.2	42
10.4	11.1	11.1	45.2	45.1	45.2	9.1	9.1	9.3	38.2	39.5	39.9	23.3	25.1	25.2	43
71.5	68.7	(*)	269.6	263.1	(*)	50.7	50.7	(*)	206.4	213.5	(*)	231.6	236.0	(*)	44
7.5	7.8	(*)	33.4	30.4	(*)	7.1	7.5	(*)	27.6	28.6	(*)	33.4	35.9	(*)	45
25.4	(*)	(*)	90.2	(*)	(*)	23.1	(*)	(*)	76.1	(*)	(*)	61.1	(*)	(*)	46
2.3	2.3	(*)	7.1	6.8	(*)	1.2	1.2	(*)	5.4	5.7	(*)	4.5	5.0	(*)	47
114.8	114.7	115.8	354.7	359.7	361.3	73.8	75.4	75.7	251.0	255.6	257.4	284.3	299.5	294.9	48
2.5	2.6	2.6	11.2	11.1	11.1	2.8	2.8	2.9	10.1	10.5	10.2	13.9	15.4	14.4	49
10.0	10.3	10.4	42.1	44.8	44.9	11.0	11.2	11.4	29.5	30.7	30.7	44.8	47.3	47.6	50
5.0	5.2	5.3	19.1	20.6	20.7	2.3	2.5	2.5	14.5	14.7	14.8	9.0	8.1	8.1	51
3.6	3.8	3.8	14.3	14.2	14.1	2.6	2.7	2.7	9.1	9.2	9.1	11.5	11.6	11.4	52
2.6	2.5	2.5	13.2	12.7	13.0	3.5	3.6	3.7	7.8	7.9	7.8	9.7	9.8	8.8	53
49.0	49.5	50.2	123.4	125.5	126.1	29.8	30.4	30.3	104.5	105.7	104.6	82.0	84.6	83.3	54
10.2	10.5	10.5	34.7	35.7	36.1	7.1	7.4	7.5	25.4	25.7	26.5	25.0	25.7	26.5	55
19.6	19.1	(*)	94.3	89.7	(*)	16.6	16.7	(*)	76.8	75.8	(*)	81.3	84.7	(*)	56
1.1	1.1	(*)	8.0	8.5	(*)	1.6	1.6	(*)	7.3	7.8	(*)	3.3	3.3	(*)	57
5.5	5.5	(*)	25.0	25.8	(*)	7.1	7.4	(*)	19.0	18.7	(*)	12.5	13.0	(*)	58
88.3	87.2	(*)	387.6	385.5	(*)	91.2	92.5	(*)	336.3	343.6	(*)	390.0	396.7	(*)	59
62.8	61.9	(*)	193.8	192.7	(*)	54.9	55.6	(*)	177.3	182.6	(*)	200.4	204.1	(*)	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		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
MASSACHUSETTES	2,617.0	(*)	(*)	(1)	(*)	(*)	80.9	(*)	(*)	678.8	(*)	(*)
2 Boston.....	1,449.1	(*)	(*)	(1)	(*)	(*)	43.6	(*)	(*)	294.8	(*)	(*)
3 Brockton.....	58.6	(*)	(*)	(1)	(*)	(*)	1.8	(*)	(*)	13.1	(*)	(*)
4 Fall River.....	58.8	(*)	(*)	(1)	(*)	(*)	1.7	(*)	(*)	20.8	(*)	(*)
5 Lawrence—Haverhill.....	109.9	(*)	(*)	(1)	(*)	(*)	3.3	(*)	(*)	42.0	(*)	(*)
8 Lowell.....	74.7	(*)	(*)	(1)	(*)	(*)	2.9	(*)	(*)	26.2	(*)	(*)
7 New Bedford.....	66.1	(*)	(*)	(1)	(*)	(*)	1.7	(*)	(*)	26.3	(*)	(*)
8 Springfield—Chicopee—Holyoke.....	234.2	(*)	(*)	(1)	(*)	(*)	6.4	(*)	(*)	67.1	(*)	(*)
9 Worcester.....	165.4	(*)	(*)	(1)	(*)	(*)	5.0	(*)	(*)	49.4	(*)	(*)
MICHIGAN	3,684.7	3,426.8	(*)	13.8	13.9	(*)	148.4	119.9	(*)	1,185.6	936.5	(*)
11 Ann Arbor.....	139.8	136.2	(*)	(1)	(1)	(*)	3.4	2.6	(*)	47.9	40.0	(*)
12 Battle Creek.....	67.0	63.9	(*)	(1)	(1)	(*)	2.1	1.9	(*)	24.3	20.5	(*)
13 Bay City.....	35.2	33.2	(*)	(1)	(1)	(*)	1.3	1.1	(*)	10.8	8.9	(*)
14 Detroit.....	1,811.6	1,669.6	(*)	1.3	1.3	(*)	63.5	53.3	(*)	594.1	465.4	(*)
15 Flint.....	207.5	178.1	(*)	(1)	(1)	(*)	6.8	5.9	(*)	88.1	63.7	(*)
18 Grand Rapids.....	273.8	267.0	(*)	(1)	(1)	(*)	15.3	12.4	(*)	97.3	87.6	(*)
17 Jackson.....	55.6	51.2	(*)	(1)	(1)	(*)	2.2	1.4	(*)	16.9	13.8	(*)
18 Kalamazoo—Portage.....	109.8	108.3	(*)	(1)	(1)	(*)	4.7	4.5	(*)	36.7	32.1	(*)
19 Lansing—East Lansing.....	199.3	187.7	(*)	(1)	(1)	(*)	7.4	5.8	(*)	47.3	31.2	(*)
20 Muskegon—Norton Shores—Musk. Hgts.....	62.2	60.0	(*)	(1)	(1)	(*)	3.4	2.3	(*)	22.0	20.2	(*)
21 Saginaw.....	92.1	81.5	(*)	(1)	(1)	(*)	2.8	2.0	(*)	37.5	26.7	(*)
MINNESOTA	1,800.6	1,798.2	1,814.6	18.1	15.4	15.8	93.6	77.7	86.4	383.0	373.8	375.1
23 Duluth—Superior.....	63.0	61.3	61.2	(1)	(1)	(1)	2.2	2.1	2.2	8.2	7.8	7.8
24 Minneapolis—St. Paul.....	1,091.0	1,101.6	1,107.3	(1)	(1)	(1)	51.2	44.5	49.1	247.3	246.3	244.3
25 Rochester.....	50.4	(*)	(*)	(2)	(*)	(*)	2.6	(*)	(*)	10.3	(*)	(*)
26 St. Cloud.....	52.1	(*)	(*)	(1)	(*)	(*)	2.4	(*)	(*)	13.6	(*)	(*)
MISSISSIPPI	850.1	830.5	(*)	9.7	10.0	(*)	49.0	44.4	(*)	240.5	219.4	(*)
28 Jackson.....	147.4	147.5	(*)	1.3	1.3	(*)	8.9	7.2	(*)	19.1	18.8	(*)
MISSOURI	2,027.0	1,994.9	1,986.4	8.4	7.6	7.7	98.9	77.6	74.3	465.4	435.4	433.2
30 Kansas City.....	647.9	618.4	616.7	.6	.6	.6	31.5	25.3	25.2	130.8	118.1	117.0
31 St. Joseph.....	37.7	36.9	36.9	(2)	(2)	(2)	2.3	2.1	2.2	9.8	9.0	9.0
32 St. Louis.....	1,016.1	971.9	968.5	3.2	3.0	3.0	48.4	36.1	33.5	256.8	238.8	237.4
33 Springfield.....	85.0	84.6	83.3	(2)	(2)	(2)	4.6	3.9	3.7	18.3	18.7	18.1
MONTANA	294.2	286.6	291.0	7.8	7.7	7.9	18.0	15.3	16.6	27.4	23.5	24.4
35 Billings.....	48.4	49.0	50.1	(1)	(1)	(1)	2.9	2.2	2.9	4.4	4.6	4.7
36 Great Falls.....	31.0	29.9	30.2	(1)	(1)	(1)	2.3	1.8	2.0	1.7	1.7	1.7
NEBRASKA	641.2	634.4	634.2	1.8	1.6	1.6	38.0	33.5	33.5	100.0	95.7	95.2
37 Lincoln.....	103.1	102.8	103.3	(2)	(2)	(2)	5.5	4.8	5.0	14.3	13.4	13.3
39 Omaha.....	268.5	266.0	265.2	(2)	(2)	(2)	12.9	11.4	10.3	37.7	35.9	35.9
NEVADA	384.5	398.6	(*)	4.8	5.2	(*)	28.0	24.4	(*)	19.4	19.8	(*)
41 Las Vegas.....	207.2	218.9	(*)	.5	.6	(*)	15.1	14.4	(*)	6.7	7.4	(*)
42 Reno.....	116.0	117.6	(*)	.8	.8	(*)	8.5	6.4	(*)	8.5	8.2	(*)
NEW HAMPSHIRE	382.2	381.4	(*)	.5	.4	(*)	21.0	20.2	(*)	117.7	115.0	(*)
44 Manchester.....	74.1	73.3	(*)	(2)	(2)	(*)	3.5	3.1	(*)	19.0	17.6	(*)
45 Nashua.....	61.3	62.6	(*)	(2)	(2)	(*)	3.0	2.5	(*)	28.5	29.0	(*)
NEW JERSEY	3,087.5	3,047.5	(*)	2.8	3.0	(*)	121.2	107.5	(*)	813.6	784.7	(*)
47 Atlantic City.....	86.0	89.2	(*)	-	-	(*)	7.5	6.3	(*)	9.5	8.9	(*)
48 Camden.....	335.3	329.9	(*)	.1	.1	(*)	15.6	12.4	(*)	72.0	70.4	(*)
49 Hackensack.....	403.6	396.1	(*)	(1)	(1)	(*)	14.6	12.0	(*)	115.8	109.9	(*)
50 Jersey City.....	233.0	229.4	(*)	-	-	(*)	4.7	4.1	(*)	72.9	70.2	(*)
51 Long Branch—Asbury Park.....	162.4	158.6	(*)	(1)	(1)	(*)	7.1	4.8	(*)	24.7	25.1	(*)
52 New Bruns.—Perth Amboy—Sayreville.....	286.0	282.1	(*)	(1)	(1)	(*)	11.4	9.3	(*)	92.4	86.7	(*)
53 Newark.....	955.7	946.1	(*)	.8	.9	(*)	35.1	30.9	(*)	259.1	249.6	(*)
54 Paterson—Clifton—Passaic.....	193.0	189.3	(*)	(1)	(1)	(*)	7.5	5.5	(*)	70.3	61.5	(*)
55 Trenton.....	164.5	165.5	(*)	(1)	(1)	(*)	3.0	3.1	(*)	36.9	35.0	(*)
56 Vineland—Millville—Bridgeton.....	56.2	55.7	(*)	(1)	(1)	(*)	1.9	1.6	(*)	18.7	18.0	(*)
NEW MEXICO	466.5	477.3	477.7	27.2	28.5	29.2	38.7	35.3	36.7	35.0	34.8	34.8
58 Albuquerque.....	187.9	193.9	192.1	(1)	(1)	(1)	16.8	15.6	16.1	18.0	18.1	17.9
NEW YORK	7,269.4	(*)	(*)	6.1	(*)	(*)	223.5	(*)	(*)	1,521.2	(*)	(*)
60 Albany—Schenectady—Troy.....	342.3	(*)	(*)	(1)	(*)	(*)	12.4	(*)	(*)	61.0	(*)	(*)
81 Binghamton.....	120.6	(*)	(*)	(1)	(*)	(*)	4.6	(*)	(*)	44.4	(*)	(*)
62 Buffalo.....	523.1	(*)	(*)	(1)	(*)	(*)	20.6	(*)	(*)	149.0	(*)	(*)

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	
122.0	(*)	(*)	575.2	(*)	(*)	150.5	(*)	(*)	591.0	(*)	(*)	418.6	(*)	(*)	1
72.5	(*)	(*)	315.9	(*)	(*)	105.8	(*)	(*)	398.3	(*)	(*)	218.2	(*)	(*)	2
4.5	(*)	(*)	15.6	(*)	(*)	2.2	(*)	(*)	9.2	(*)	(*)	12.2	(*)	(*)	3
2.0	(*)	(*)	12.1	(*)	(*)	2.7	(*)	(*)	10.8	(*)	(*)	8.7	(*)	(*)	4
4.6	(*)	(*)	21.9	(*)	(*)	4.0	(*)	(*)	16.3	(*)	(*)	17.8	(*)	(*)	5
3.3	(*)	(*)	15.7	(*)	(*)	2.1	(*)	(*)	11.6	(*)	(*)	12.9	(*)	(*)	6
2.4	(*)	(*)	13.1	(*)	(*)	2.0	(*)	(*)	9.6	(*)	(*)	11.0	(*)	(*)	7
9.5	(*)	(*)	47.7	(*)	(*)	12.7	(*)	(*)	45.1	(*)	(*)	45.7	(*)	(*)	8
7.1	(*)	(*)	35.9	(*)	(*)	9.0	(*)	(*)	31.9	(*)	(*)	27.1	(*)	(*)	9
161.9	152.5	(*)	765.6	749.8	(*)	155.1	154.7	(*)	637.1	645.4	(*)	617.3	654.2	(*)	10
3.8	3.2	(*)	19.6	19.2	(*)	3.6	3.6	(*)	21.3	21.5	(*)	40.2	46.1	(*)	11
2.4	2.3	(*)	11.0	11.3	(*)	3.7	3.6	(*)	11.0	11.8	(*)	12.4	12.5	(*)	12
1.9	1.9	(*)	8.3	8.2	(*)	1.2	1.2	(*)	6.8	6.8	(*)	4.9	5.1	(*)	13
88.1	82.3	(*)	371.8	362.7	(*)	89.9	89.5	(*)	343.7	348.5	(*)	259.3	266.7	(*)	14
7.3	6.8	(*)	40.2	38.6	(*)	6.2	5.7	(*)	30.5	30.6	(*)	28.4	26.8	(*)	15
10.9	10.6	(*)	60.5	61.1	(*)	10.1	10.2	(*)	48.6	52.1	(*)	31.1	33.0	(*)	16
5.1	5.2	(*)	11.1	10.7	(*)	1.5	1.5	(*)	10.0	9.7	(*)	8.8	8.9	(*)	17
4.0	4.2	(*)	21.0	21.6	(*)	3.5	3.6	(*)	21.3	22.6	(*)	18.6	19.6	(*)	18
5.5	5.7	(*)	36.3	36.7	(*)	9.2	9.3	(*)	25.7	27.0	(*)	67.9	72.0	(*)	19
3.1	3.1	(*)	11.8	11.6	(*)	1.7	1.8	(*)	10.0	10.5	(*)	10.0	10.5	(*)	20
4.8	4.8	(*)	17.7	17.5	(*)	3.8	3.8	(*)	14.2	14.8	(*)	11.3	11.9	(*)	21
101.7	100.3	100.4	451.7	452.3	456.7	92.6	95.6	96.5	360.4	371.6	375.0	299.4	311.5	308.7	22
7.5	6.6	6.8	16.9	15.8	15.6	2.2	2.3	2.3	12.9	12.9	12.8	13.1	13.7	13.7	23
65.0	65.2	65.1	268.6	272.6	274.4	68.3	69.9	70.8	229.6	239.0	239.8	161.1	164.1	163.7	24
2.0	(*)	(*)	9.9	(*)	(*)	1.4	(*)	(*)	18.1	(*)	(*)	6.1	(*)	(*)	25
3.4	(*)	(*)	12.2	(*)	(*)	1.8	(*)	(*)	8.4	(*)	(*)	10.2	(*)	(*)	26
41.5	41.7	(*)	164.0	162.1	(*)	33.2	33.1	(*)	120.2	121.1	(*)	191.9	198.7	(*)	27
9.9	10.1	(*)	35.3	35.1	(*)	11.6	11.5	(*)	27.1	28.7	(*)	34.1	34.8	(*)	28
145.2	141.6	140.5	479.1	484.5	485.1	110.1	108.9	110.2	384.8	389.8	396.3	335.1	349.5	339.1	29
57.0	51.4	50.8	161.6	154.4	154.3	44.2	43.7	44.3	130.2	129.8	131.7	92.0	95.1	92.8	30
2.1	2.1	2.1	9.3	8.8	8.9	2.0	1.9	1.9	6.8	7.0	7.0	5.4	6.0	5.8	31
73.6	68.4	69.9	228.9	220.4	220.2	57.1	56.6	56.9	206.8	206.2	207.6	141.3	142.4	140.0	32
6.5	6.6	6.7	24.1	23.0	22.6	3.5	3.4	3.4	16.8	17.0	16.9	11.2	12.0	11.9	33
23.7	23.3	23.4	76.7	74.5	75.7	13.0	12.8	13.0	56.7	56.7	57.8	70.9	72.5	72.2	34
4.8	5.2	5.2	16.1	16.3	16.3	2.3	2.3	2.3	10.1	10.6	10.9	7.7	7.9	7.8	35
1.9	1.9	1.9	9.9	9.5	9.6	2.1	2.1	2.1	6.9	6.9	6.8	6.2	6.0	6.0	36
47.4	46.6	46.9	165.5	166.0	165.3	41.3	42.2	42.7	115.8	120.3	119.1	131.4	128.5	129.9	37
7.3	7.4	7.5	22.0	23.1	22.5	7.3	7.4	7.5	16.2	16.9	16.5	30.5	29.8	31.0	38
25.1	24.8	25.0	70.0	69.2	69.1	24.5	25.2	25.6	59.1	60.2	60.4	39.2	39.3	38.9	39
23.3	24.9	(*)	76.9	80.8	(*)	17.0	17.4	(*)	160.6	168.3	(*)	54.5	57.8	(*)	40
12.5	13.5	(*)	42.7	44.9	(*)	9.4	9.8	(*)	95.6	102.1	(*)	24.7	26.2	(*)	41
8.1	8.8	(*)	24.5	25.9	(*)	6.0	6.1	(*)	44.5	45.1	(*)	15.1	16.3	(*)	42
13.8	13.9	(*)	84.6	84.7	(*)	18.8	19.7	(*)	68.4	67.6	(*)	57.4	59.9	(*)	43
4.8	4.9	(*)	18.4	18.8	(*)	6.3	6.4	(*)	13.8	13.8	(*)	8.3	8.7	(*)	44
2.0	2.0	(*)	11.8	12.2	(*)	1.9	2.0	(*)	8.4	8.8	(*)	5.7	6.1	(*)	45
190.9	185.9	(*)	692.7	677.6	(*)	155.0	155.3	(*)	586.2	595.7	(*)	525.3	537.8	(*)	46
3.9	3.9	(*)	20.0	18.6	(*)	5.2	5.1	(*)	25.7	30.9	(*)	14.3	15.5	(*)	47
16.0	14.9	(*)	87.8	85.8	(*)	16.2	16.5	(*)	65.9	66.9	(*)	61.6	62.9	(*)	48
20.7	19.6	(*)	117.7	115.4	(*)	16.4	16.9	(*)	74.2	76.7	(*)	44.3	45.6	(*)	49
27.2	25.7	(*)	44.8	45.4	(*)	8.1	8.0	(*)	30.9	30.6	(*)	44.2	45.4	(*)	50
6.1	5.9	(*)	40.8	38.9	(*)	8.0	7.7	(*)	41.4	40.9	(*)	34.3	35.3	(*)	51
20.8	22.6	(*)	65.9	65.4	(*)	9.8	9.9	(*)	39.1	40.4	(*)	46.6	47.8	(*)	52
71.6	70.4	(*)	182.4	182.1	(*)	64.8	64.4	(*)	188.5	192.0	(*)	153.4	155.8	(*)	53
6.9	6.6	(*)	41.7	41.3	(*)	9.0	8.9	(*)	31.2	32.1	(*)	26.5	27.4	(*)	54
6.0	5.7	(*)	24.9	24.6	(*)	6.8	6.6	(*)	41.4	43.3	(*)	45.6	47.2	(*)	55
3.1	2.9	(*)	9.5	9.2	(*)	2.0	2.0	(*)	8.6	8.6	(*)	12.5	13.4	(*)	56
27.8	28.6	27.8	105.0	107.5	108.4	21.5	22.0	22.2	91.9	91.8	94.1	119.4	128.8	124.5	57
11.1	11.8	11.6	47.1	48.2	48.4	10.9	11.3	11.4	43.1	44.4	45.1	40.9	44.5	41.6	58
442.2	(*)	(*)	1,489.3	(*)	(*)	607.5	(*)	(*)	1,648.8	(*)	(*)	1,330.8	(*)	(*)	59
16.0	(*)	(*)	70.2	(*)	(*)	15.7	(*)	(*)	69.0	(*)	(*)	98.0	(*)	(*)	60
5.0	(*)	(*)	21.8	(*)	(*)	3.9	(*)	(*)	17.6	(*)	(*)	23.3	(*)	(*)	61
29.3	(*)	(*)	117.1	(*)	(*)	22.2	(*)	(*)	97.3	(*)	(*)	87.7	(*)	(*)	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		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
NEW YORK—Continued												
1 Elmira	37.3	(*)	(*)	(1)	(*)	(*)	1.4	(*)	(*)	11.2	(*)	(*)
2 Monroe County	342.4	(*)	(*)	(1)	(*)	(*)	10.8	(*)	(*)	138.8	(*)	(*)
3 Nassau—Suffolk	915.1	(*)	(*)	(1)	(*)	(*)	38.4	(*)	(*)	166.3	(*)	(*)
4 New York—Northeastern New Jersey	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
5 New York—Nassau—Suffolk	4,660.4	(*)	(*)	1.7	(*)	(*)	129.2	(*)	(*)	789.3	(*)	(*)
6 New York SMSA	3,745.3	(*)	(*)	1.5	(*)	(*)	90.8	(*)	(*)	622.9	(*)	(*)
7 New York City	3,296.3	(*)	(*)	1.1	(*)	(*)	71.4	(*)	(*)	528.9	(*)	(*)
8 Poughkeepsie	98.5	(*)	(*)	(1)	(*)	(*)	3.0	(*)	(*)	33.1	(*)	(*)
9 Rochester	421.8	(*)	(*)	(1)	(*)	(*)	13.5	(*)	(*)	160.4	(*)	(*)
10 Rockland County	82.0	(*)	(*)	(1)	(*)	(*)	2.8	(*)	(*)	15.9	(*)	(*)
11 Syracuse	267.6	(*)	(*)	(1)	(*)	(*)	12.5	(*)	(*)	63.2	(*)	(*)
12 Utica—Rome	118.9	(*)	(*)	(1)	(*)	(*)	3.6	(*)	(*)	32.8	(*)	(*)
13 Westchester County	354.4	(*)	(*)	(1)	(*)	(*)	15.8	(*)	(*)	76.8	(*)	(*)
NORTH CAROLINA												
14 Asheville	2,399.5	(*)	(*)	5.0	(*)	(*)	132.0	(*)	(*)	829.8	(*)	(*)
15 Charlotte—Gastonia	73.1	(*)	(*)	(1)	(*)	(*)	3.5	(*)	(*)	22.1	(*)	(*)
16 Greensboro—Winston-Salem—High Pt.	327.1	(*)	(*)	(1)	(*)	(*)	18.1	(*)	(*)	89.7	(*)	(*)
17 Raleigh—Durham	390.1	(*)	(*)	(1)	(*)	(*)	17.4	(*)	(*)	151.5	(*)	(*)
18	263.9	(*)	(*)	(1)	(*)	(*)	15.9	(*)	(*)	44.1	(*)	(*)
NORTH DAKOTA												
19 Fargo—Moorhead	250.6	250.7	250.6	5.5	6.9	7.3	21.9	16.7	17.2	17.2	15.5	15.7
20	62.3	63.1	61.6	(2)	(2)	(2)	4.9	3.8	3.8	5.2	4.7	4.6
OHIO												
21 Akron	4,562.9	4,432.5	4,450.7	31.9	29.2	31.4	196.8	166.8	173.8	1,398.1	1,255.3	1,248.4
22 Canton	273.5	271.5	268.6	(*)	(*)	(*)	10.1	8.5	8.8	86.6	79.0	77.6
23 Cincinnati	164.6	161.5	161.6	(*)	(*)	(*)	7.1	6.1	6.4	59.9	56.2	55.4
24 Cleveland	615.5	610.5	615.0	(*)	(*)	(*)	29.3	26.7	27.2	173.7	161.6	162.2
25 Columbus	934.5	909.1	915.9	(*)	(*)	(*)	35.7	32.0	33.2	280.2	252.2	251.1
26 Dayton	511.4	509.0	514.1	(*)	(*)	(*)	22.6	19.4	20.2	100.2	93.6	94.5
27 Toledo	369.1	361.3	361.8	(*)	(*)	(*)	15.1	13.4	14.0	110.1	99.3	98.0
28 Youngstown—Warren	312.4	299.3	301.8	(*)	(*)	(*)	12.7	10.9	11.2	89.8	75.9	76.8
29	217.6	207.2	208.2	(*)	(*)	(*)	7.6	6.4	6.6	80.3	68.4	69.1
OKLAHOMA												
30 Oklahoma City	1,095.8	1,134.0	1,137.9	60.8	66.3	67.5	61.8	60.1	61.0	183.3	186.1	186.2
31 Tulsa	382.8	404.9	408.7	13.5	14.8	15.2	20.6	21.2	21.8	53.0	56.2	56.5
32	285.6	292.1	292.4	18.2	19.4	19.8	16.3	15.7	15.7	59.4	61.2	61.6
OREGON												
33 Eugene—Springfield	1,074.0	1,032.6	(*)	2.5	2.3	(*)	56.2	48.5	(*)	231.4	198.1	(*)
34 Jackson County	107.8	100.1	(*)	(1)	(1)	(*)	6.1	4.1	(*)	21.6	18.3	(*)
35 Portland	560.6	554.5	(*)	(1)	(1)	(*)	29.2	26.1	(*)	116.2	112.8	(*)
36 Salem	91.2	(*)	(*)	(1)	(*)	(*)	5.4	(*)	(*)	15.2	(*)	(*)
PENNSYLVANIA												
38 Allentown—Bethlehem—Easton	4,911.3	4,830.5	(*)	52.7	48.6	(*)	218.3	206.1	(*)	1,409.8	1,351.5	(*)
39 Altoona	265.6	265.2	(*)	(1)	(1)	(*)	10.1	9.5	(*)	111.3	110.8	(*)
40 Delaware Valley	53.8	54.3	(*)	(1)	(1)	(*)	3.0	2.9	(*)	13.2	13.3	(*)
41 Erie	1,614.6	1,612.5	(*)	(1)	(1)	(*)	65.2	65.6	(*)	387.8	377.3	(*)
42 Harrisburg	117.3	116.4	(*)	(1)	(1)	(*)	3.0	3.0	(*)	44.9	41.9	(*)
43 Johnstown	221.5	217.0	(*)	(1)	(1)	(*)	8.8	8.5	(*)	43.9	42.6	(*)
44 Lancaster	93.1	89.4	(*)	9.6	8.3	(*)	3.8	3.2	(*)	21.0	19.6	(*)
45 Northeast Pennsylvania	155.6	151.8	(*)	(1)	(1)	(*)	8.6	7.5	(*)	61.4	58.7	(*)
46 Philadelphia SMSA	249.5	243.5	(*)	1.3	1.2	(*)	14.2	11.6	(*)	75.0	73.4	(*)
47 Pittsburgh	1,948.8	1,942.2	(*)	(1)	(1)	(*)	80.5	77.9	(*)	460.1	447.8	(*)
48 Reading	805.5	805.1	(*)	(1)	(1)	(*)	19.2	20.3	(*)	146.5	142.9	(*)
49 Scranton	978.7	951.2	(*)	11.8	10.7	(*)	48.9	46.2	(*)	260.9	247.7	(*)
50 Wilkes-Barre—Hazleton	140.0	138.1	(*)	(1)	(1)	(*)	5.7	5.2	(*)	54.7	51.6	(*)
51 Williamsport	87.1	86.5	(*)	(1)	(1)	(*)	2.9	2.3	(*)	28.1	28.2	(*)
52 York	132.6	126.9	(*)	1.1	1.1	(*)	9.7	7.6	(*)	42.1	40.0	(*)
53	49.0	45.8	(*)	(1)	(1)	(*)	1.7	1.7	(*)	18.5	15.5	(*)
54	158.4	155.2	(*)	(1)	(1)	(*)	7.5	6.9	(*)	66.9	65.0	(*)
RHODE ISLAND												
55 Providence—Warwick—Pawtucket	404.5	(*)	(*)	(1)	(*)	(*)	13.5	(*)	(*)	134.3	(*)	(*)
56	413.8	(*)	(*)	(1)	(*)	(*)	13.7	(*)	(*)	149.9	(*)	(*)
SOUTH CAROLINA												
57 Charleston—North Charleston	1,193.7	1,200.1	(*)	1.9	1.9	(*)	75.1	71.4	(*)	404.7	393.3	(*)
58 Columbia	147.6	147.7	(*)	(1)	(1)	(*)	11.9	11.4	(*)	19.8	18.3	(*)
59 Greenville—Spartanburg	176.4	181.4	(*)	(1)	(1)	(*)	8.9	8.0	(*)	27.7	28.1	(*)
60	265.3	264.3	(*)	(1)	(1)	(*)	16.9	16.5	(*)	108.7	105.7	(*)
SOUTH DAKOTA												
81 Rapid City	249.0	243.9	247.1	2.8	3.0	3.0	13.9	12.6	13.2	27.3	25.6	25.4
82 Sioux Falls	31.6	30.6	31.2	(2)	(2)	(2)	2.7	2.3	2.4	3.1	3.1	3.2
83	54.7	52.4	52.7	(2)	(2)	(2)	3.3	2.7	2.7	7.5	7.1	6.9

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	
1.5	(*)	(*)	8.2	(*)	(*)	1.0	(*)	(*)	6.8	(*)	(*)	7.2	(*)	(*)	1
10.3	(*)	(*)	61.6	(*)	(*)	14.8	(*)	(*)	64.4	(*)	(*)	41.8	(*)	(*)	2
39.1	(*)	(*)	239.1	(*)	(*)	51.2	(*)	(*)	200.0	(*)	(*)	180.9	(*)	(*)	3
(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	4
325.4	(*)	(*)	963.1	(*)	(*)	502.0	(*)	(*)	1,165.5	(*)	(*)	784.3	(*)	(*)	5
286.2	(*)	(*)	723.9	(*)	(*)	450.8	(*)	(*)	965.7	(*)	(*)	603.4	(*)	(*)	6
263.1	(*)	(*)	622.4	(*)	(*)	430.0	(*)	(*)	858.8	(*)	(*)	520.6	(*)	(*)	7
2.8	(*)	(*)	16.2	(*)	(*)	2.6	(*)	(*)	17.4	(*)	(*)	23.3	(*)	(*)	8
13.1	(*)	(*)	78.9	(*)	(*)	16.4	(*)	(*)	76.7	(*)	(*)	62.8	(*)	(*)	9
3.6	(*)	(*)	17.5	(*)	(*)	2.5	(*)	(*)	17.9	(*)	(*)	21.9	(*)	(*)	10
15.3	(*)	(*)	60.	(*)	(*)	15.6	(*)	(*)	50.0	(*)	(*)	50.6	(*)	(*)	11
4.1	(*)	(*)	22.4	(*)	(*)	5.7	(*)	(*)	20.6	(*)	(*)	29.6	(*)	(*)	12
18.9	(*)	(*)	80.8	(*)	(*)	17.8	(*)	(*)	86.5	(*)	(*)	57.6	(*)	(*)	13
116.1	(*)	(*)	482.2	(*)	(*)	93.9	(*)	(*)	335.8	(*)	(*)	404.7	(*)	(*)	14
3.6	(*)	(*)	15.2	(*)	(*)	2.1	(*)	(*)	15.1	(*)	(*)	11.5	(*)	(*)	15
31.0	(*)	(*)	83.8	(*)	(*)	20.5	(*)	(*)	48.3	(*)	(*)	35.7	(*)	(*)	16
21.8	(*)	(*)	77.8	(*)	(*)	17.8	(*)	(*)	55.8	(*)	(*)	48.0	(*)	(*)	17
12.9	(*)	(*)	51.1	(*)	(*)	15.2	(*)	(*)	54.7	(*)	(*)	70.0	(*)	(*)	18
16.4	16.6	16.9	69.1	70.3	70.9	11.1	11.4	11.5	48.2	50.0	50.4	61.2	63.3	60.7	19
4.1	4.1	4.2	19.2	19.0	18.8	3.7	3.9	3.9	13.2	14.3	13.8	12.0	13.3	12.5	20
236.7	237.7	240.0	987.8	981.0	984.4	201.8	204.2	206.0	825.9	846.2	858.5	683.8	712.1	708.4	21
15.6	16.0	16.1	59.1	59.1	59.5	9.5	9.4	9.4	51.3	52.5	53.9	40.8	46.7	42.8	22
7.7	7.6	7.6	35.3	35.3	35.6	5.6	5.8	5.8	29.3	30.4	30.8	18.6	19.1	19.0	23
34.9	35.5	35.8	139.4	140.0	140.6	32.3	32.7	33.1	122.1	127.5	130.1	83.5	86.1	85.7	24
48.7	48.7	49.2	214.1	213.6	214.7	48.3	48.5	49.3	185.2	189.2	191.6	120.7	123.2	125.0	25
25.3	25.7	26.0	120.4	120.7	120.6	36.1	37.8	38.2	101.6	104.2	105.8	104.4	107.0	108.2	26
13.4	13.6	13.5	76.2	76.2	76.2	13.6	13.5	13.7	70.8	73.3	74.3	69.4	71.5	71.7	27
21.6	22.5	22.7	69.9	68.7	69.0	10.6	10.9	10.9	59.8	61.2	61.9	47.5	48.7	48.7	28
10.5	10.6	10.8	47.7	47.5	47.8	7.0	7.1	7.1	38.4	39.1	39.6	25.6	27.7	26.6	29
66.3	64.7	64.3	258.3	265.1	267.9	54.5	55.1	55.7	185.6	198.9	203.1	225.2	237.7	232.2	30
23.0	23.0	23.3	95.1	101.7	102.3	24.3	24.8	25.2	68.5	72.4	73.7	84.8	90.8	90.6	31
22.2	23.2	23.3	70.7	70.8	71.1	14.5	14.6	14.8	54.8	56.0	56.3	29.5	31.2	29.8	32
61.0	60.6	(*)	257.4	255.4	(*)	70.2	70.3	(*)	185.9	184.9	(*)	209.4	212.5	(*)	33
5.4	5.3	(*)	26.5	25.0	(*)	5.4	5.4	(*)	19.2	19.3	(*)	23.6	22.7	(*)	34
-	-	(*)	-	-	(*)	-	-	(*)	-	-	(*)	-	-	-	35
36.3	36.4	(*)	142.3	141.9	(*)	44.7	44.3	(*)	107.7	106.7	(*)	84.2	86.3	(*)	36
2.8	(*)	(*)	19.2	(*)	(*)	5.7	(*)	(*)	14.2	(*)	(*)	28.7	(*)	(*)	37
277.4	266.4	(*)	1,001.8	985.0	(*)	238.4	241.7	(*)	977.1	1,001.3	(*)	735.8	729.9	(*)	38
14.2	14.4	(*)	50.7	50.6	(*)	8.6	8.7	(*)	40.8	41.4	(*)	29.9	29.8	(*)	39
7.8	7.2	(*)	11.5	12.4	(*)	1.5	1.5	(*)	9.0	9.1	(*)	7.8	7.9	(*)	40
87.6	83.5	(*)	333.5	333.8	(*)	110.0	110.5	(*)	386.1	397.8	(*)	244.4	244.0	(*)	41
5.5	5.5	(*)	24.1	25.2	(*)	4.7	4.9	(*)	21.5	21.3	(*)	13.6	14.6	(*)	42
17.1	16.7	(*)	44.8	43.0	(*)	12.5	12.8	(*)	38.5	37.5	(*)	55.9	55.9	(*)	43
5.9	6.1	(*)	16.4	16.8	(*)	4.0	4.0	(*)	16.4	16.3	(*)	16.0	15.1	(*)	44
6.8	6.7	(*)	34.0	33.6	(*)	5.3	5.4	(*)	24.6	24.4	(*)	14.9	15.5	(*)	45
13.7	13.5	(*)	52.4	50.4	(*)	9.6	9.6	(*)	43.9	43.6	(*)	39.2	40.2	(*)	46
103.8	98.4	(*)	421.3	419.6	(*)	126.2	126.6	(*)	451.5	464.9	(*)	305.4	307.0	(*)	47
58.1	54.9	(*)	150.5	151.0	(*)	69.9	70.1	(*)	213.1	218.8	(*)	148.2	147.1	(*)	48
63.7	60.2	(*)	209.6	203.8	(*)	45.5	46.3	(*)	208.1	206.7	(*)	130.2	129.6	(*)	49
6.8	6.6	(*)	27.6	26.8	(*)	6.0	6.4	(*)	23.1	23.6	(*)	16.1	17.9	(*)	50
4.3	4.3	(*)	20.2	19.5	(*)	3.4	3.5	(*)	16.8	16.9	(*)	11.4	11.8	(*)	51
7.3	7.0	(*)	27.2	26.0	(*)	5.3	5.3	(*)	19.4	19.5	(*)	20.5	20.4	(*)	52
2.4	2.3	(*)	9.9	9.8	(*)	2.1	2.1	(*)	7.7	8.0	(*)	6.7	6.4	(*)	53
7.3	6.9	(*)	32.6	31.5	(*)	3.9	4.0	(*)	21.3	21.5	(*)	18.9	19.4	(*)	54
13.7	(*)	(*)	81.9	(*)	(*)	21.1	(*)	(*)	80.0	(*)	(*)	60.0	(*)	(*)	55
13.5	(*)	(*)	82.7	(*)	(*)	21.1	(*)	(*)	76.0	(*)	(*)	56.9	(*)	(*)	56
53.8	53.3	(*)	225.0	230.0	(*)	47.4	48.4	(*)	157.9	163.0	(*)	227.9	238.8	(*)	57
8.9	8.9	(*)	31.7	31.6	(*)	6.5	6.5	(*)	23.4	24.7	(*)	45.4	46.3	(*)	58
9.3	9.5	(*)	38.1	37.9	(*)	13.6	13.9	(*)	26.5	26.9	(*)	52.3	57.1	(*)	59
10.6	10.2	(*)	50.4	51.0	(*)	9.2	9.5	(*)	35.8	36.5	(*)	33.7	34.9	(*)	60
13.8	13.8	13.5	68.0	67.2	67.5	11.0	11.6	11.7	50.4	50.0	51.8	61.8	60.1	61.0	81
2.0	1.9	1.8	9.8	9.5	9.6	1.4	1.3	1.3	6.9	6.5	7.0	5.7	6.0	5.9	82
4.9	4.8	4.7	16.3	15.4	15.3	3.4	3.5	3.5	11.9	12.0	12.3	7.3	6.9	7.3	83

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		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
1 TENNESSEE	1,805.9	1,789.7	(*)	10.9	9.9	(*)	97.0	85.0	(*)	533.9	516.7	(*)
2 Chattanooga	176.6	175.0	(*)	1.2	1.3	(*)	7.5	6.6	(*)	55.1	53.4	(*)
3 Knoxville	195.8	193.7	(*)	1.6	1.6	(*)	11.9	10.9	(*)	53.8	51.7	(*)
4 Memphis	360.3	357.3	(*)	.2	.2	(*)	15.8	16.0	(*)	63.6	58.9	(*)
5 Nashville—Davidson	369.8	362.6	(*)	(1)	(1)	(*)	22.4	20.7	(*)	84.8	79.4	(*)
6 TEXAS	5,621.3	5,761.4	5,779.6	199.7	218.1	220.9	432.2	432.1	440.6	1,032.4	1,043.0	1,046.0
7 Amarillo	75.0	75.8	75.0	(1)	(1)	(1)	5.2	5.2	5.2	9.4	9.4	9.4
8 Austin	229.0	237.1	234.7	(1)	(1)	(1)	13.4	13.2	13.3	29.0	30.1	30.3
9 Beaumont—Port Arthur—Orange	146.9	141.2	143.3	(1)	(1)	(1)	12.1	10.2	10.5	41.6	39.8	42.4
10 Corpus Christi	123.0	123.0	122.1	6.5	7.2	7.3	16.3	13.4	13.4	15.6	15.8	16.0
11 Dallas—Fort Worth	1,390.4	1,439.4	1,444.8	21.3	23.6	24.2	83.0	80.3	82.6	311.1	314.1	313.7
12 El Paso	156.0	158.9	158.5	(1)	(1)	(1)	8.8	9.1	9.2	32.3	33.0	32.6
13 Galveston—Texas City	67.1	70.4	(*)	(1)	(1)	(*)	5.2	5.6	(*)	12.0	12.3	(*)
14 Houston	1,369.5	1,398.0	1,401.2	68.0	71.5	73.4	145.7	140.1	139.6	228.7	236.6	237.3
15 Lubbock	85.6	89.6	86.3	(1)	(1)	(1)	4.9	4.1	4.2	12.8	13.1	12.8
18 San Antonio	378.4	385.6	386.2	2.0	2.2	2.2	25.9	25.8	26.7	47.6	48.0	48.1
17 Waco	68.9	70.4	69.5	(1)	(1)	(1)	3.7	3.5	3.6	16.9	15.9	16.1
18 Wichita Falls	50.6	51.5	51.2	2.9	2.9	2.9	2.8	2.7	2.7	9.5	9.2	9.1
19 UTAH	550.9	567.5	568.7	17.9	18.0	17.9	38.2	33.8	36.5	86.9	90.6	91.4
20 Salt Lake City—Ogden	392.6	405.2	405.3	7.7	7.5	7.4	26.0	23.3	24.7	57.7	60.9	61.6
21 VERMONT	197.9	197.4	(*)	.8	.8	(*)	11.3	10.1	(*)	51.7	50.9	(*)
22 Burlington	54.9	56.4	(*)	-	-	(*)	-	-	(*)	14.3	14.6	(*)
23 Springfield	14.8	14.5	(*)	-	-	(*)	-	-	(*)	6.2	6.2	(*)
24 VIRGINIA	2,122.5	2,119.9	2,130.7	24.6	23.8	24.2	145.1	125.0	130.2	411.1	408.7	406.3
25 Bristol	28.8	28.5	28.6	(1)	(1)	(1)	1.5	1.4	1.4	9.9	9.3	9.3
28 Lynchburg	71.6	72.6	72.3	(1)	(1)	(1)	3.8	3.6	3.7	28.6	29.3	29.3
27 Newport News—Hampton	149.1	151.5	155.3	(1)	(1)	(1)	7.5	7.2	7.8	33.5	33.7	34.2
28 Norfolk—Virginia Beach—Portsmouth	289.2	284.8	284.8	(1)	(1)	(1)	18.6	15.6	16.5	30.0	29.5	27.7
29 Northern Virginia	433.1	429.0	433.3	.4	.4	.4	32.7	27.1	27.6	16.4	16.9	17.1
30 Petersburg—Colonial Hghts.—Hopewell	47.6	48.6	49.3	(1)	(1)	(1)	2.4	3.5	3.8	12.3	11.7	11.7
31 Richmond	329.5	326.9	326.9	.4	.4	.4	20.3	16.7	17.0	55.2	55.1	54.7
32 Roanoke	105.7	105.2	105.9	.1	.1	.1	6.5	6.2	6.5	21.0	21.0	21.0
33 WASHINGTON	1,602.8	(*)	(*)	2.9	(*)	(*)	107.1	(*)	(*)	311.4	(*)	(*)
34 Seattle—Everett	760.6	(*)	(*)	(1)	(*)	(*)	46.0	(*)	(*)	168.9	(*)	(*)
35 Spokane	130.5	(*)	(*)	(1)	(*)	(*)	8.7	(*)	(*)	18.3	(*)	(*)
36 Tacoma	142.0	(*)	(*)	(1)	(*)	(*)	9.0	(*)	(*)	22.6	(*)	(*)
37 WEST VIRGINIA	639.8	635.9	(*)	65.9	60.1	(*)	33.2	38.2	(*)	127.3	118.8	(*)
38 Charleston	116.2	116.4	(*)	7.2	6.7	(*)	6.8	7.9	(*)	19.6	17.5	(*)
39 Huntington—Ashland	107.5	109.0	(*)	1.1	1.3	(*)	6.6	8.2	(*)	29.4	28.0	(*)
40 Parkersburg—Martietta	57.7	57.4	(*)	.5	.5	(*)	2.7	4.0	(*)	18.0	16.3	(*)
41 Wheeling	67.4	66.2	(*)	7.5	6.2	(*)	3.3	3.7	(*)	13.9	12.7	(*)
42 WISCONSIN	1,991.8	1,975.8	1,995.0	3.1	2.5	2.6	90.4	77.0	75.0	599.0	546.9	556.0
43 Appleton—Oshkosh	131.4	131.5	131.5	(1)	(1)	(1)	7.1	6.3	6.3	51.2	47.7	47.6
44 Eau Claire	46.8	48.2	49.8	(1)	(1)	(1)	2.4	1.7	1.7	7.7	7.4	9.0
45 Green Bay	78.6	78.9	80.2	(1)	(1)	(1)	4.0	3.3	3.6	22.1	21.1	21.5
46 Janesville—Beloit	55.6	48.8	51.0	(1)	(1)	(1)	2.2	1.9	1.8	22.7	15.4	17.5
47 Kenosha	47.5	40.4	46.6	(1)	(1)	(1)	3.4	2.1	2.0	18.9	11.9	18.6
48 La Crosse	43.6	45.1	44.9	(1)	(1)	(1)	2.0	2.0	1.9	11.2	10.9	10.7
49 Madison	167.4	174.5	174.4	(1)	(1)	(1)	8.4	8.1	8.6	20.4	19.7	20.1
50 Milwaukee	684.9	684.9	684.4	(1)	(1)	(1)	25.6	22.4	20.1	220.9	208.3	205.6
51 Racine	72.9	70.5	70.5	(1)	(1)	(1)	2.6	2.1	2.2	32.5	29.9	29.2
52 WYOMING	208.1	216.7	219.7	33.1	36.2	37.6	24.0	24.2	25.7	10.2	10.9	11.4
53 Casper	39.9	44.0	45.0	7.8	9.5	9.9	4.5	5.7	6.3	1.9	2.1	2.2
54 Cheyenne	29.2	28.3	28.8	(1)	(1)	(1)	2.3	2.3	2.5	1.7	1.8	1.9
55 VIRGIN ISLANDS	35.8	(*)	(*)	(2)	(*)	(*)	2.6	(*)	(*)	3.3	(*)	(*)

¹ Combined with services.

² Combined with construction.

³ Area included in Chicago-Gary Standard Consolidated Statistical Area.

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

⁵ Subarea of New York-Northeastern New Jersey.

⁶ Subarea of Rochester Standard Metropolitan Statistical Area.

⁷ Area included in New York and Nassau-Suffolk combined SMSA's.

⁸ Subarea of New York Standard Metropolitan Statistical Area.

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

¹⁰ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Philadelphia County.

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		
JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
88.7	86.5	(*)	391.6	384.9	(*)	78.8	77.6	(*)	292.9	303.4	(*)	312.1	325.7	(*)
7.2	7.2	(*)	33.9	32.4	(*)	10.0	9.9	(*)	28.5	28.8	(*)	33.2	35.4	(*)
8.0	7.9	(*)	41.0	40.3	(*)	8.0	8.0	(*)	30.1	30.3	(*)	41.4	43.0	(*)
27.7	27.5	(*)	96.7	95.3	(*)	19.7	19.7	(*)	71.9	72.7	(*)	64.7	67.0	(*)
22.4	21.2	(*)	84.7	78.1	(*)	24.2	24.3	(*)	71.1	74.2	(*)	60.2	64.7	(*)
355.1	362.2	363.3	1,381.5	1,386.7	1,391.6	317.6	328.1	330.9	968.6	995.2	1,004.0	934.2	996.0	982.3
7.1	7.1	7.2	22.4	22.1	21.9	3.8	3.8	3.8	14.9	14.8	14.9	12.2	13.4	12.6
7.1	7.1	7.1	48.2	48.5	48.2	13.2	13.7	13.7	40.0	41.3	41.4	78.1	83.2	80.7
12.0	10.9	11.4	31.9	30.1	30.2	5.4	5.2	5.2	25.0	24.2	24.5	18.9	20.8	19.1
6.8	7.0	6.8	28.0	28.1	27.9	5.2	5.3	5.3	19.6	20.3	20.6	25.0	25.9	24.8
89.8	94.8	95.5	367.4	386.5	388.6	102.3	106.7	108.6	243.9	255.7	258.3	171.6	177.7	173.3
10.8	10.8	10.9	39.1	39.3	39.3	7.3	7.4	7.4	25.1	26.4	26.5	32.6	32.9	32.6
6.9	7.2	(*)	12.6	13.1	(*)	4.4	4.4	(*)	11.1	11.5	(*)	15.7	16.3	(*)
99.3	100.6	101.3	334.7	329.3	330.6	82.2	84.8	86.2	260.0	272.0	272.8	150.9	163.1	160.0
5.1	5.0	5.0	25.1	25.7	25.3	4.7	4.8	4.9	16.3	16.8	16.8	16.7	20.1	17.3
17.8	18.2	18.4	95.6	94.5	95.5	25.0	25.4	25.4	72.2	75.6	75.0	92.3	95.9	94.9
3.2	3.2	3.2	15.9	17.2	17.0	4.1	4.3	4.3	13.5	14.6	13.9	11.6	11.7	11.4
2.4	2.5	2.5	12.2	12.6	12.7	2.3	2.3	2.3	7.6	7.8	7.8	10.9	11.5	11.2
34.9	35.1	35.4	129.2	130.5	130.0	26.4	27.1	27.3	96.6	101.4	103.9	120.8	131.1	126.3
27.8	28.3	28.5	96.3	98.5	97.8	21.7	22.1	22.3	67.8	71.5	73.4	87.7	93.1	89.6
9.0	9.0	(*)	41.0	40.9	(*)	7.9	8.0	(*)	40.7	41.0	(*)	35.5	36.7	(*)
2.4	2.4	(*)	11.8	12.5	(*)	-	-	(*)	10.9	11.7	(*)	-	-	(*)
.7	.7	(*)	2.2	2.2	(*)	-	-	(*)	2.6	2.5	(*)	-	-	(*)
116.4	114.7	115.1	440.0	442.3	446.1	104.7	105.3	106.0	381.6	387.0	390.7	499.0	513.1	512.1
1.1	1.2	1.2	6.8	6.6	6.6	1.0	1.0	1.0	3.5	3.7	3.7	5.0	5.3	5.4
2.8	2.8	2.7	12.3	11.8	11.8	3.5	3.5	3.6	10.4	11.1	10.8	10.2	10.5	10.4
5.1	5.2	5.1	28.2	28.4	28.9	5.1	5.1	5.2	28.2	28.8	30.1	41.5	43.1	44.0
20.0	19.1	19.2	69.7	67.9	68.6	15.0	14.6	14.8	54.5	54.8	55.5	81.4	83.3	82.5
29.0	28.7	29.0	99.1	97.3	97.6	27.5	27.1	27.4	109.7	111.6	113.7	118.3	119.9	120.5
1.5	1.6	1.5	8.4	8.3	8.2	1.4	1.3	1.3	5.8	6.1	6.4	15.8	16.1	16.4
19.8	19.7	19.9	74.2	72.3	72.4	26.9	27.0	27.0	58.0	60.1	60.4	74.7	75.6	75.1
10.2	9.9	9.9	26.2	25.7	25.6	6.1	6.3	6.3	19.9	19.9	19.9	15.7	16.1	16.6
89.4	(*)	(*)	385.8	(*)	(*)	90.1	(*)	(*)	292.6	(*)	(*)	323.5	(*)	(*)
51.7	(*)	(*)	180.3	(*)	(*)	53.2	(*)	(*)	142.6	(*)	(*)	117.9	(*)	(*)
8.2	(*)	(*)	36.6	(*)	(*)	8.0	(*)	(*)	27.9	(*)	(*)	22.8	(*)	(*)
6.8	(*)	(*)	33.6	(*)	(*)	7.2	(*)	(*)	29.5	(*)	(*)	33.3	(*)	(*)
43.9	43.2	(*)	132.1	132.0	(*)	21.3	21.6	(*)	96.2	97.0	(*)	120.0	125.1	(*)
9.8	10.0	(*)	27.8	27.6	(*)	5.0	5.1	(*)	20.4	20.4	(*)	19.6	21.2	(*)
10.1	10.0	(*)	24.0	23.8	(*)	4.0	3.8	(*)	15.6	15.9	(*)	16.6	18.0	(*)
7.8	2.6	(*)	12.8	12.5	(*)	2.1	2.2	(*)	6.8	9.1	(*)	10.0	10.2	(*)
3.7	3.7	(*)	15.6	15.8	(*)	2.6	2.6	(*)	12.8	13.3	(*)	7.9	8.3	(*)
94.1	92.1	92.1	449.3	470.3	474.2	91.3	94.6	96.0	355.6	373.2	380.8	309.0	319.2	318.3
4.6	4.9	4.7	26.9	28.4	28.4	5.0	5.3	5.4	20.5	21.3	21.5	16.0	17.7	17.5
2.7	2.6	2.6	12.8	13.8	13.5	1.6	1.6	1.6	9.6	9.7	10.0	10.3	11.4	11.4
6.0	6.2	6.4	19.6	20.5	20.5	2.5	2.5	2.5	14.0	14.5	14.5	10.4	11.0	11.2
2.3	1.9	2.0	11.9	12.3	12.3	1.4	1.4	1.4	8.5	8.7	8.9	6.7	7.1	7.0
1.5	1.4	1.3	8.6	8.7	8.7	1.0	1.0	1.1	7.7	8.5	8.1	6.4	6.8	6.7
2.5	2.5	2.5	11.3	12.1	11.8	1.1	1.1	1.1	9.4	9.9	10.1	6.1	6.6	6.8
6.1	6.4	6.5	35.0	35.9	35.7	12.1	12.9	13.2	30.5	32.8	33.0	54.9	58.6	57.2
35.0	34.5	33.9	149.7	154.4	155.4	38.2	39.3	39.7	136.6	146.1	147.9	78.9	79.9	81.8
2.2	2.1	2.0	13.6	13.5	13.6	2.3	2.4	2.4	11.2	11.4	11.7	8.4	9.0	9.3
16.8	16.9	17.3	45.9	46.4	46.6	7.1	7.5	7.4	31.6	30.9	31.9	39.4	43.7	41.8
2.9	2.9	2.9	10.8	11.3	11.0	1.5	1.6	1.6	5.3	5.5	5.5	5.2	5.4	5.6
4.3	4.2	4.1	7.1	7.3	7.3	1.5	1.5	1.5	4.3	3.7	3.9	8.0	7.5	7.6
2.1	(*)	(*)	7.1	(*)	(*)	1.4	(*)	(*)	5.8	(*)	(*)	13.5	(*)	(*)

¹¹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna County.

¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹³ Total includes data for industry divisions not shown separately.

¹⁴ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alex-

andria, 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 HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1979	July 1979	May 1980	June ^p 1980	July ^p 1980	June 1979	July 1979	May 1980	June ^p 1980	July ^p 1980
-	TOTAL PRIVATE	\$219.35	\$221.76	\$229.95	\$233.99	\$233.69	\$6.11	\$6.16	\$6.57	\$6.61	\$6.62
-	MINING	367.20	356.12	387.72	394.46	384.99	8.50	8.54	9.08	9.11	9.08
10	METAL MINING	377.24	378.80	414.33	419.63	-	9.09	9.33	10.18	10.21	-
101	Iron ores	403.18	415.34	421.95	455.51	-	9.42	9.56	11.05	11.11	-
102	Copper ores	395.28	416.78	432.85	427.45	-	9.15	9.67	10.38	10.30	-
11, 12	COAL MINING	427.41	393.58	426.58	436.80	-	10.45	10.58	10.91	10.92	-
12	BITUMINOUS COAL AND LIGNITE MINING	429.68	394.69	427.75	437.30	-	10.48	10.61	10.94	10.96	-
13	OIL AND GAS EXTRACTION	339.46	337.80	376.26	383.11	-	7.68	7.73	8.38	8.42	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	360.71	360.91	393.01	397.64	-	8.65	8.76	9.68	9.77	-
138	Oil and gas field services	330.66	328.55	369.81	377.93	-	7.32	7.35	7.97	7.99	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	320.16	316.68	321.47	324.82	-	6.90	6.96	7.39	7.45	-
142	Crushed and broken stone	313.22	316.24	312.49	318.89	-	6.65	6.70	7.07	7.15	-
-	CONSTRUCTION	347.32	350.03	360.51	371.80	372.99	9.14	9.26	9.77	9.81	9.92
15	GENERAL BUILDING CONTRACTORS	310.98	312.91	331.78	336.72	-	8.52	8.62	9.14	9.15	-
152	Residential building construction	297.02	295.20	315.15	319.52	-	8.16	8.20	8.73	8.73	-
153	Operative builders	267.12	271.01	293.23	291.88	-	7.42	7.57	7.99	7.91	-
154	Nonresidential building construction	331.03	337.09	348.12	355.72	-	9.02	9.16	9.59	9.64	-
16	HEAVY CONSTRUCTION CONTRACTORS	363.36	358.85	361.30	380.10	-	8.59	8.71	9.01	9.05	-
161	Highway and street construction	372.22	367.16	342.34	380.63	-	8.29	8.46	8.58	8.75	-
162	Heavy construction, except highway	358.28	355.29	370.12	380.37	-	8.76	8.86	9.23	9.21	-
17	SPECIAL TRADE CONTRACTORS	360.88	365.93	375.48	385.35	-	9.78	9.89	10.43	10.50	-
171	Plumbing, heating, air conditioning	376.20	379.62	395.25	400.00	-	9.90	9.99	10.54	10.61	-
172	Painting, paper hanging, decorating	313.79	319.69	331.20	340.55	-	8.94	8.98	9.60	9.62	-
173	Electrical work	419.39	425.04	436.61	447.12	-	10.95	11.04	11.52	11.86	-
174	Masonry, stonework, and plastering	333.64	339.77	356.38	368.53	-	9.56	9.68	10.36	10.44	-
175	Carpentering and flooring	311.70	313.29	314.64	320.16	-	8.83	8.85	9.20	9.20	-
176	Roofing and sheet metal work	300.32	299.74	285.74	317.96	-	8.63	8.79	9.10	9.27	-
-	MANUFACTURING	269.47	268.13	280.21	283.68	283.19	6.67	6.72	7.13	7.20	7.28
24, 25, 32-39	DURABLE GOODS	291.92	288.86	301.72	306.06	303.41	7.12	7.15	7.60	7.69	7.74
20-23, 26-31	NONDURABLE GOODS	234.04	236.38	248.45	250.78	255.15	5.94	6.03	6.42	6.48	6.61
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	247.23	245.07	240.64	253.60	254.89	6.15	6.22	6.40	6.57	6.69
241	Logging camps and logging contractors	336.20	329.54	333.59	358.83	-	8.22	8.28	8.62	8.86	-
242	Sawmills and planing mills	265.74	264.71	243.75	258.80	-	6.45	6.52	6.50	6.67	-
2421	Sawmills and planing mills, general	280.84	279.33	257.11	272.92	-	6.80	6.88	6.82	6.98	-
2426	Hardwood dimension and flooring	173.32	175.80	173.72	178.22	-	4.29	4.33	4.67	4.69	-
243	Millwork, plywood, and structural members	235.22	233.14	234.38	244.99	-	5.94	6.04	6.25	6.38	-
2431	Millwork	221.87	221.54	238.01	238.64	-	5.66	5.83	6.33	6.33	-
2434	Wood kitchen cabinets	209.88	198.91	208.51	215.13	-	5.48	5.42	5.76	5.83	-
2435	Hardwood veneer and plywood	185.54	188.58	184.22	188.60	-	4.65	4.75	4.81	4.95	-
2436	Softwood veneer and plywood	310.02	306.83	253.76	316.52	-	7.58	7.69	7.69	7.72	-
244	Wooden containers	173.11	169.10	181.92	179.22	-	4.45	4.45	4.93	4.91	-
245	Wood buildings and mobile homes	216.21	210.74	211.32	218.48	-	5.66	5.59	6.09	6.12	-
2451	Mobile homes	214.30	206.82	208.54	214.46	-	5.61	5.53	6.08	6.11	-
249	Miscellaneous wood products	201.14	200.80	206.31	211.43	-	4.93	5.02	5.29	5.38	-
25	FURNITURE AND FIXTURES	196.33	192.02	202.17	205.13	204.23	5.06	5.04	5.42	5.47	5.49
251	Household furniture	182.78	179.74	185.47	186.94	-	4.76	4.73	5.04	5.08	-
2511	Wood household furniture	170.61	170.23	171.76	172.79	-	4.42	4.41	4.68	4.67	-
2512	Upholstered household furniture	190.89	184.13	195.48	197.29	-	5.05	4.99	5.40	5.45	-
2514	Metal household furniture	194.33	190.51	202.90	197.47	-	4.97	4.91	5.27	5.44	-
2515	Mattresses and bedsprings	201.63	197.95	201.71	211.31	-	5.32	5.35	5.65	5.65	-
252	Office furniture	213.20	211.58	228.53	230.10	-	5.33	5.37	5.89	5.90	-
253	Public building and related furniture	223.02	183.81	221.72	229.10	-	5.40	5.12	5.85	5.80	-
254	Partitions and fixtures	241.30	238.46	254.59	256.61	-	6.14	6.21	6.63	6.70	-
259	Miscellaneous furniture and fixtures	217.23	211.50	231.72	238.01	-	5.57	5.61	6.05	6.15	-

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				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
-	TOTAL PRIVATE	35.9	36.0	35.0	35.4	35.3	-	-	-	-	-
-	MINING	43.2	41.7	42.7	43.3	42.4	-	-	-	-	-
10	METAL MINING	41.5	40.6	40.7	41.1	-	-	-	-	-	-
101	Iron ores	42.8	42.4	40.9	41.0	-	-	-	-	-	-
102	Copper ores	43.2	43.1	41.7	41.5	-	-	-	-	-	-
11, 12	COAL MINING	40.9	37.2	39.1	40.0	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	41.0	37.2	39.1	39.9	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	44.2	43.7	44.9	45.5	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	41.7	41.2	40.6	40.7	-	-	-	-	-	-
138	Oil and gas field services	45.2	44.7	46.4	47.3	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	46.4	45.5	43.5	43.6	-	-	-	-	-	-
142	Crushed and broken stone	47.1	47.2	44.2	44.6	-	-	-	-	-	-
-	CONSTRUCTION	38.0	37.8	36.9	37.9	37.6	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.5	36.3	36.3	36.8	-	-	-	-	-	-
152	Residential building construction	36.4	36.0	36.1	36.6	-	-	-	-	-	-
153	Operative builders	36.0	35.8	36.7	36.9	-	-	-	-	-	-
154	Nonresidential building construction	36.7	36.8	36.3	36.9	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	42.3	41.2	40.1	42.0	-	-	-	-	-	-
161	Highway and street construction	44.9	43.4	39.9	43.5	-	-	-	-	-	-
162	Heavy construction, except-highway	40.9	40.1	40.1	41.3	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	36.9	37.0	36.0	36.7	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	38.0	38.0	37.5	37.7	-	-	-	-	-	-
172	Painting, paper hanging, decorating	35.1	35.6	34.5	35.4	-	-	-	-	-	-
173	Electrical work	38.3	38.5	37.9	37.7	-	-	-	-	-	-
174	Masonry, stonework, and plastering	34.9	35.1	34.4	35.3	-	-	-	-	-	-
175	Carpentering and flooring	35.3	35.4	34.2	34.8	-	-	-	-	-	-
176	Roofing and sheet metal work	34.8	34.1	31.4	34.3	-	-	-	-	-	-
-	MANUFACTURING	40.4	39.9	39.3	39.4	38.9	3.4	3.2	2.5	2.5	2.4
24, 25, 32-39	DURABLE GOODS	41.0	40.4	39.7	39.8	39.2	3.6	3.4	2.5	2.4	2.3
20-23, 26-31	NONDURABLE GOODS	39.4	39.2	38.7	38.7	38.6	3.0	3.0	2.5	2.5	2.6
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	40.2	39.4	37.6	38.6	38.1	3.6	3.4	2.3	2.5	-
241	Logging camps and logging contractors	40.9	39.8	38.7	40.5	-	4.7	4.0	3.5	3.8	-
242	Sawmills and planing mills	41.2	40.6	37.5	38.8	-	4.4	4.3	2.8	3.1	-
2421	Sawmills and planing mills, general	41.3	40.6	37.7	39.1	-	4.7	4.6	3.0	3.4	-
2426	Hardwood dimension and flooring	40.4	40.6	37.2	38.0	-	3.4	3.2	2.0	2.0	-
243	Millwork, plywood, and structural members	39.6	38.6	37.5	38.4	-	2.9	2.9	1.7	2.0	-
2431	Millwork	39.2	38.0	37.6	37.7	-	1.8	1.8	1.3	1.4	-
2434	Wood kitchen cabinets	38.3	36.7	36.2	36.9	-	2.3	2.3	1.2	1.4	-
2435	Hardwood veneer and plywood	39.9	39.7	38.3	38.1	-	3.6	3.6	2.3	2.3	-
2436	Softwood veneer and plywood	40.9	39.9	38.2	41.0	-	4.4	4.3	2.6	3.0	-
244	Wooden containers	38.9	38.0	36.9	36.5	-	3.0	2.6	1.9	1.6	-
245	Wood buildings and mobile homes	38.2	37.7	34.7	35.7	-	2.1	2.1	.9	1.1	-
2451	Mobile homes	38.2	37.4	34.3	35.1	-	1.8	1.6	.7	.8	-
249	Miscellaneous wood products	40.8	40.0	39.0	39.3	-	3.4	3.2	2.3	2.3	-
26	FURNITURE AND FIXTURES	38.8	38.1	37.3	37.5	37.2	2.2	1.9	1.4	1.4	-
261	Household furniture	38.4	38.0	36.8	36.8	-	2.1	1.7	1.2	1.1	-
2611	Wood household furniture	38.6	38.6	36.7	37.0	-	2.4	2.0	1.4	1.2	-
2612	Upholstered household furniture	37.8	36.9	36.2	36.2	-	1.4	1.0	.9	.7	-
2614	Metal household furniture	39.1	38.8	38.5	36.3	-	2.0	2.0	1.6	1.2	-
2615	Mattresses and bedsprings	37.9	37.0	35.7	37.4	-	2.8	2.1	1.4	1.9	-
262	Office furniture	40.0	39.4	38.8	39.0	-	2.3	1.9	1.8	1.8	-
263	Public building and related furniture	41.3	35.9	37.9	39.5	-	2.0	2.1	1.8	2.5	-
264	Partitions and fixtures	39.3	38.4	38.4	38.3	-	2.7	2.7	1.9	2.0	-
269	Miscellaneous furniture and fixtures	39.0	37.7	38.3	38.7	-	2.3	1.8	.8	1.0	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
32	STONE, CLAY, AND GLASS PRODUCTS	\$288.81	\$286.35	\$302.47	\$308.32	\$306.12	\$6.86	\$6.90	\$7.45	\$7.52	\$7.54
321	Flat glass	379.74	353.56	370.64	393.18	-	8.65	8.54	9.22	9.52	-
322	Glass and glassware, pressed or blown	289.58	290.24	325.18	326.42	-	7.15	7.22	7.97	8.04	-
3221	Glass containers	307.09	303.91	354.35	354.32	-	7.49	7.56	8.58	8.60	-
3229	Pressed and blown glass, nec	266.53	270.68	288.64	290.47	-	6.68	6.75	7.18	7.28	-
323	Products of purchased glass	246.48	241.57	245.12	242.18	-	6.24	6.21	6.40	6.39	-
324	Cement, hydraulic	414.19	412.13	443.52	453.05	-	9.70	9.72	10.56	10.66	-
325	Structural clay products	232.69	230.16	241.30	244.55	-	5.58	5.60	6.14	6.16	-
326	Pottery and related products	219.18	216.79	235.62	238.78	-	5.62	5.69	6.12	6.17	-
327	Concrete, gypsum, and plaster products	303.01	302.22	305.12	316.63	-	6.84	6.90	7.37	7.45	-
3271	Concrete block and brick	281.42	287.84	276.18	279.54	-	6.24	6.34	6.56	6.64	-
3272	Concrete products, nec	258.34	256.39	275.22	277.80	-	6.05	6.09	6.60	6.63	-
3273	Ready-mixed concrete	340.51	334.72	332.11	351.85	-	7.55	7.59	8.14	8.24	-
329	Misc. nonmetallic mineral products	287.28	284.42	298.82	301.10	-	6.84	6.87	7.36	7.38	-
3291	Abrasive products	271.42	268.13	292.40	288.35	-	6.62	6.67	7.31	7.30	-
3292	Asbestos products	296.95	291.75	295.80	296.46	-	7.02	7.03	7.25	7.32	-
33	PRIMARY METAL INDUSTRIES	370.66	373.35	377.67	379.46	378.02	8.91	9.04	9.61	9.68	9.87
331	Blast furnace and basic steel products	426.82	437.65	431.84	432.02	-	10.26	10.47	11.27	11.28	-
3312	Blast furnaces and steel mills	438.84	452.28	446.53	446.91	-	10.60	10.82	11.72	11.73	-
3317	Steel pipe and tubes	342.77	337.42	339.79	342.00	-	8.22	8.27	8.78	8.86	-
332	Iron and steel foundries	323.38	312.76	312.39	317.15	-	7.83	7.78	8.01	8.07	-
3321	Gray iron foundries	327.59	318.40	304.80	315.95	-	7.99	7.96	8.00	8.06	-
3322	Malleable iron foundries	346.49	322.76	325.84	334.13	-	8.41	8.34	8.62	8.91	-
3325	Steel foundries, nec	314.49	302.66	327.23	320.38	-	7.47	7.40	8.04	8.07	-
333	Primary nonferrous metals	390.40	393.33	435.54	442.98	-	9.43	9.57	10.37	10.70	-
3334	Primary aluminum	415.95	409.86	458.13	478.17	-	10.22	10.12	10.96	11.55	-
335	Nonferrous rolling and drawing	332.71	333.26	351.41	357.75	-	7.81	7.86	8.55	8.79	-
3351	Copper rolling and drawing	315.23	303.84	303.38	289.89	-	7.23	7.20	7.70	7.51	-
3353	Aluminum sheet, plate, and foil	408.11	404.92	443.31	452.06	-	9.58	9.55	10.53	11.08	-
3357	Nonferrous wire drawing and insulating	306.50	303.88	318.57	327.98	-	7.35	7.34	7.77	7.98	-
336	Nonferrous foundries	273.10	265.59	282.03	281.52	-	6.71	6.69	7.14	7.20	-
3361	Aluminum foundries	284.90	279.39	287.17	287.62	-	7.00	6.95	7.27	7.30	-
34	FABRICATED METAL PRODUCTS	280.03	275.25	292.07	297.48	290.77	6.83	6.83	7.32	7.40	7.38
341	Metal cans and shipping containers	398.27	411.31	426.71	435.37	-	8.89	9.02	9.72	9.85	-
3411	Metal cans	410.32	427.31	447.55	456.26	-	9.20	9.33	10.08	10.23	-
342	Cutlery, hand tools, and hardware	261.05	255.58	268.27	270.27	-	6.51	6.52	6.95	7.02	-
3423, 6	Hand and edge tools, and hand saws and blades	257.70	253.83	258.61	261.97	-	6.27	6.33	6.77	6.84	-
3429	Hardware, nec	267.92	260.26	278.31	279.17	-	6.80	6.76	7.21	7.27	-
343	Plumbing and heating, except electric	241.59	232.97	251.63	251.52	-	5.98	6.02	6.57	6.55	-
3432	Plumbing fittings and brass goods	236.88	232.00	244.35	243.33	-	5.77	5.80	6.38	6.37	-
3433	Heating equipment, except electric	230.30	221.63	249.23	249.48	-	5.89	5.91	6.44	6.43	-
344	Fabricated structural metal products	262.76	261.49	266.88	290.65	-	6.52	6.57	7.19	7.23	-
3441	Fabricated structural metal	285.25	285.07	306.34	311.33	-	6.89	6.97	7.49	7.52	-
3442	Metal doors, sash, and trim	207.77	205.14	227.94	226.59	-	5.26	5.26	5.89	5.84	-
3443	Fabricated plate work (boiler shops)	288.46	283.20	319.76	323.83	-	7.07	7.08	7.78	7.86	-
3444	Sheet metal work	264.27	262.36	279.03	285.71	-	6.64	6.71	7.21	7.27	-
3446	Architectural metal work	240.01	250.49	266.13	262.01	-	6.17	6.39	6.67	6.65	-
345	Screw machine products, bolts, etc.	274.34	264.58	278.92	272.52	-	6.44	6.36	6.87	6.83	-
3451	Screw machine products	250.38	247.16	254.70	253.53	-	5.99	5.97	6.32	6.37	-
3452	Bolts, nuts, rivets, and washers	298.41	280.64	302.33	291.27	-	6.86	6.73	7.41	7.30	-
346	Metal forgings and stampings	328.41	315.89	323.44	341.70	-	8.01	7.88	8.23	8.50	-
3462	Iron and steel forgings	336.34	322.34	351.78	403.01	-	8.58	8.55	9.02	9.55	-
3465	Automotive stampings	399.65	392.59	390.82	409.77	-	9.63	9.46	9.97	10.27	-
3469	Metal stampings, nec	246.19	238.80	257.54	258.33	-	5.99	6.00	6.52	6.54	-
347	Metal services, nec	223.58	220.95	239.19	237.41	-	5.48	5.51	5.95	5.95	-
3471	Plating and polishing	215.61	212.51	230.10	227.75	-	5.35	5.38	5.84	5.81	-
3479	Metal coating and allied services	241.34	239.13	258.52	258.55	-	5.76	5.79	6.17	6.23	-
348	Ordnance and accessories, nec	268.37	267.20	297.25	300.53	-	6.61	6.68	7.25	7.33	-
3483	Ammunition, exc. for small arms, nec	244.20	244.10	269.96	271.26	-	6.31	6.39	6.80	6.85	-
349	Misc. fabricated metal products	264.50	260.18	278.80	281.10	-	6.42	6.44	6.97	7.01	-
3494	Valves and pipe fittings	279.45	275.40	299.88	300.77	-	6.75	6.80	7.35	7.39	-
3496	Misc. fabricated wire products	235.18	230.85	241.08	244.19	-	5.75	5.70	6.15	6.12	-
35	MACHINERY, EXCEPT ELECTRICAL	307.55	302.41	322.73	325.58	321.20	7.34	7.34	7.91	7.98	8.03
351	Engines and turbines	362.25	364.68	363.39	372.66	-	8.75	8.83	9.39	9.58	-
3511	Turbines and turbine generator sets	314.72	315.19	350.33	354.55	-	7.79	7.86	8.65	8.69	-
3519	Internal combustion engines, nec	375.30	377.73	367.48	378.02	-	9.00	9.08	9.62	9.87	-
352	Farm and garden machinery	345.59	341.82	369.46	381.64	-	8.17	8.10	9.10	9.40	-
3523	Farm machinery and equipment	361.23	357.79	384.70	394.83	-	8.44	8.34	9.36	9.63	-
353	Construction and related machinery	330.68	322.34	340.94	350.02	-	7.93	7.92	8.46	8.60	-

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				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
32	STONE, CLAY, AND GLASS PRODUCTS	42.1	41.5	40.6	41.0	40.6	4.8	4.7	3.4	3.6	-
321	Flat glass	43.9	41.4	40.2	41.3	-	5.1	4.3	3.3	3.0	-
322	Glass and glassware, pressed or blown	40.5	40.2	40.8	40.6	-	4.0	4.1	3.7	3.7	-
3221	Glass containers	41.0	40.2	41.3	41.2	-	4.4	4.5	4.1	4.2	-
3229	Pressed and blown glass, nec	39.9	40.1	40.2	39.9	-	3.5	3.5	3.2	3.1	-
323	Products of purchased glass	39.5	38.9	38.3	37.9	-	2.6	2.2	1.5	1.3	-
324	Cement, hydraulic	42.7	42.4	42.0	42.5	-	4.1	4.3	2.9	2.8	-
325	Structural clay products	41.7	41.1	39.3	39.7	-	4.2	4.1	2.8	2.6	-
326	Pottery and related products	39.0	38.1	38.5	38.7	-	2.4	2.2	2.2	2.0	-
327	Concrete, gypsum, and plaster products	44.3	43.8	41.4	42.5	-	7.1	6.7	4.6	5.2	-
3271	Concrete block and brick	45.1	45.4	42.1	42.1	-	7.5	7.5	4.3	5.0	-
3272	Concrete products, nec	42.7	42.1	41.7	41.9	-	5.6	5.5	4.2	4.3	-
3273	Ready-mixed concrete	45.1	44.1	40.8	42.7	-	8.1	7.2	5.0	6.0	-
329	Misc. nonmetallic mineral products	42.0	41.4	40.6	40.8	-	4.3	4.2	2.8	2.9	-
3291	Abrasive products	41.0	40.2	40.0	39.5	-	3.4	3.3	2.8	2.4	-
3292	Asbestos products	42.3	41.5	40.8	40.5	-	3.3	3.1	2.1	2.1	-
33	PRIMARY METAL INDUSTRIES	41.6	41.3	39.3	39.2	38.3	4.0	3.9	2.3	2.1	-
331	Blast furnace and basic steel products	41.6	41.8	38.3	38.3	-	3.6	3.8	1.7	1.4	-
3312	Blast furnaces and steel mills	41.4	41.8	38.1	38.1	-	3.5	3.8	1.6	1.3	-
3317	Steel pipe and tubes	41.7	40.8	38.7	38.6	-	3.7	3.3	1.8	1.9	-
332	Iron and steel foundries	41.3	40.2	39.0	39.3	-	4.2	3.3	2.3	2.3	-
3321	Gray iron foundries	41.0	40.0	38.1	39.2	-	4.0	3.1	1.9	2.0	-
3322	Malleable iron foundries	41.2	38.7	37.8	37.5	-	4.6	2.8	2.0	1.8	-
3325	Steel foundries, nec	42.1	40.9	40.7	39.7	-	4.6	4.0	3.0	2.7	-
333	Primary nonferrous metals	41.4	41.1	42.0	41.4	-	3.9	4.2	3.8	3.8	-
3334	Primary aluminum	40.7	40.5	41.8	41.4	-	4.1	3.9	3.9	4.0	-
335	Nonferrous rolling and drawing	42.6	42.4	41.1	40.7	-	5.3	5.1	4.5	3.1	-
3351	Copper rolling and drawing	43.6	42.2	39.4	38.6	-	5.6	5.0	2.6	1.9	-
3353	Aluminum sheet, plate and foil	42.6	42.4	42.1	40.8	-	6.8	6.7	6.0	5.0	-
3357	Nonferrous wire drawing and insulating	41.7	41.4	41.0	41.1	-	4.5	4.2	2.9	2.8	-
336	Nonferrous foundries	40.7	39.7	39.5	39.1	-	3.4	2.7	2.1	2.0	-
3361	Aluminum foundries	40.7	40.2	39.5	39.4	-	3.5	3.0	2.3	2.0	-
34	FABRICATED METAL PRODUCTS	41.0	40.3	39.9	40.2	39.4	3.6	3.2	2.5	2.4	-
341	Metal cans and shipping containers	44.8	45.6	43.9	44.2	-	5.5	5.9	4.1	4.3	-
3411	Metal cans	44.6	45.8	44.4	44.6	-	5.1	5.8	4.1	4.2	-
342	Cutlery, hand tools, and hardware	40.1	39.2	38.6	38.5	-	2.8	2.4	1.6	1.4	-
3423, 5	Hand and edge tools, and hand saws and blades	41.1	40.1	38.2	38.3	-	3.3	2.9	1.5	1.3	-
3429	Hardware, nec	39.4	38.5	38.6	38.4	-	2.5	2.1	1.5	1.3	-
343	Plumbing and heating, except electric	40.4	38.7	38.3	38.4	-	2.7	2.5	1.7	1.5	-
3432	Plumbing fittings and brass goods	41.4	40.0	38.3	38.2	-	3.2	2.8	1.7	1.2	-
3433	Heating equipment, except electric	39.1	37.5	38.7	38.8	-	2.2	2.0	1.8	1.8	-
344	Fabricated structural metal products	40.3	39.8	39.9	40.2	-	2.9	2.9	2.5	2.5	-
3441	Fabricated structural metal	41.4	40.9	40.9	41.4	-	3.7	3.6	3.3	3.6	-
3442	Metal doors, sash, and trim	39.5	39.0	38.7	38.8	-	2.3	2.5	1.8	1.6	-
3443	Fabricated plate work (boiler shops)	40.8	40.0	41.1	41.2	-	2.7	2.5	2.5	2.6	-
3444	Sheet metal work	39.8	39.1	38.7	39.3	-	3.2	2.8	2.3	2.4	-
3446	Architectural metal work	38.9	39.2	39.9	39.4	-	1.6	1.9	2.6	2.2	-
345	Screw machine products, bolts, etc.	42.6	41.6	40.6	39.9	-	4.9	4.1	3.3	2.9	-
3451	Screw machine products	41.8	41.4	40.3	39.8	-	4.9	4.4	3.4	3.1	-
3452	Bolts, nuts, rivets, and washers	43.5	41.7	40.8	39.9	-	5.0	3.8	3.1	2.7	-
346	Metal forgings and stampings	41.0	40.1	39.3	40.2	-	4.3	3.7	2.3	2.2	-
3462	Iron and steel forgings	39.2	37.7	39.0	42.2	-	4.5	3.5	2.6	2.4	-
3465	Automotive stampings	41.5	41.5	39.2	39.9	-	4.8	4.3	1.5	1.6	-
3469	Metal stampings, nec	41.1	39.8	39.5	39.5	-	3.6	3.0	2.4	2.4	-
347	Metal services, nec	40.8	40.1	40.2	39.9	-	3.7	3.3	3.2	3.0	-
3471	Plating and polishing	40.3	39.5	39.4	39.2	-	3.3	3.0	3.0	2.8	-
3479	Metal coating and allied services	41.9	41.3	41.9	41.5	-	4.6	4.1	3.6	3.6	-
348	Ordinance and accessories, nec	40.6	40.0	41.0	41.0	-	2.7	2.5	2.3	2.5	-
3483	Ammunition, exc. for small arms, nec	38.7	38.2	39.7	39.6	-	1.4	1.5	1.5	1.5	-
349	Misc. fabricated metal products	41.2	40.4	40.0	40.1	-	3.5	3.0	2.4	2.2	-
3494	Valves and pipe fittings	41.4	40.5	40.8	40.7	-	3.8	3.5	3.0	2.6	-
3496	Misc. fabricated wire products	40.9	40.5	39.2	39.9	-	3.7	3.3	2.0	2.0	-
35	MACHINERY, EXCEPT ELECTRICAL	41.9	41.2	40.8	40.8	40.0	4.0	3.6	3.1	3.0	-
351	Engines and turbines	41.4	41.3	38.7	38.9	-	3.8	3.6	1.6	1.8	-
3511	Turbines and turbine generator sets	40.4	40.1	40.5	40.8	-	3.7	3.2	3.7	4.1	-
3519	Internal combustion engines, nec	41.7	41.6	38.2	38.3	-	3.8	3.7	1.0	1.1	-
352	Farm and garden machinery	42.3	42.2	40.6	40.6	-	4.8	4.3	2.6	2.4	-
3523	Farm machinery and equipment	42.8	42.9	41.1	41.0	-	5.2	4.7	2.8	2.6	-
353	Construction and related machinery	41.7	40.7	40.3	40.7	-	3.3	3.1	2.8	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				
		June 1979	July 1979	May 1980	June 1980 ^P	July 1980 ^P	June 1979	July 1979	May 1980	June 1980 ^P	July 1980 ^P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	\$364.01	\$352.08	\$358.87	\$376.94	-	\$8.90	\$8.78	\$9.37	\$9.74	-
3532	Mining machinery	324.79	338.19	344.02	343.60	-	7.77	8.11	8.35	8.36	-
3533	Oil field machinery	307.45	298.16	352.36	353.16	-	7.15	7.15	7.99	7.99	-
3535	Conveyors and conveying equipment	286.14	280.43	309.50	313.70	-	6.67	6.79	7.68	7.67	-
3537	Industrial trucks and tractors	295.36	284.25	298.74	302.62	-	7.10	7.16	7.66	7.72	-
354	Metalworking machinery	327.75	317.48	342.63	345.17	-	7.50	7.47	8.10	8.16	-
3541	Machine tools, metal cutting types	336.60	324.61	363.05	359.79	-	7.65	7.62	8.27	8.29	-
3542	Machine tools, metal forming types	332.63	324.28	349.87	352.31	-	7.79	7.89	8.37	8.51	-
3544	Special dies, tools, jigs, and fixtures	357.25	346.70	370.66	375.39	-	8.01	7.97	8.64	8.73	-
3545	Machine tool accessories	289.43	282.31	307.33	305.21	-	6.81	6.77	7.37	7.39	-
3546	Power driven hand tools	249.64	237.61	244.86	254.02	-	6.03	5.97	6.41	6.48	-
355	Special industry machinery	286.33	283.15	304.96	305.37	-	6.85	6.94	7.42	7.43	-
3551	Food products machinery	297.25	294.00	321.10	318.76	-	7.25	7.35	7.87	7.89	-
3552	Textile machinery	234.48	226.73	245.43	245.84	-	5.65	5.64	6.06	6.07	-
3555	Printing trades machinery	297.62	292.70	323.76	319.27	-	6.87	7.07	7.60	7.53	-
356	General industrial machinery	304.41	298.66	321.88	322.32	-	7.30	7.32	7.87	7.90	-
3561	Pumps and pumping equipment	300.15	291.20	315.19	316.81	-	7.25	7.28	7.86	7.98	-
3562	Ball and roller bearings	314.49	314.75	331.69	332.54	-	7.47	7.53	7.86	7.88	-
3563	Air and gas compressors	316.40	302.91	353.93	339.90	-	7.48	7.37	8.25	8.27	-
3564	Blowers and fans	275.64	271.67	299.30	305.66	-	6.61	6.61	7.30	7.33	-
3566	Speed changers, drives, and gears	350.60	346.20	361.38	364.62	-	7.95	8.07	8.75	8.85	-
3568	Power transmission equipment, nec	288.97	283.50	300.53	302.71	-	6.98	7.00	7.57	7.53	-
357	Office and computing machines	253.12	249.69	271.92	272.83	-	6.07	6.09	6.60	6.59	-
3573	Electronic computing equipment	256.01	252.97	274.07	274.32	-	6.11	6.14	6.62	6.61	-
358	Refrigeration and service machinery	266.49	263.61	274.48	278.71	-	6.58	6.64	7.02	7.11	-
3585	Refrigeration and heating equipment	274.70	273.64	278.85	282.36	-	6.70	6.74	7.15	7.24	-
359	Misc. machinery, except electrical	290.87	289.05	314.52	310.71	-	7.06	7.05	7.69	7.71	-
3592	Carburetors, pistons, rings, valves	338.24	334.97	346.58	355.11	-	8.17	8.19	8.73	8.99	-
3599	Machinery, except electrical, nec	282.63	280.44	308.66	303.75	-	6.86	6.84	7.51	7.50	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	253.53	248.69	266.45	270.28	\$265.27	6.26	6.28	6.78	6.86	\$6.89
361	Electric distributing equipment	256.41	248.61	266.95	266.56	-	6.30	6.31	6.81	6.87	-
3612	Transformers	245.21	234.62	263.34	264.92	-	6.01	5.97	6.60	6.69	-
3613	Switchgear and switchboard apparatus	264.47	259.91	270.13	267.08	-	6.53	6.58	6.98	7.01	-
362	Electrical industrial apparatus	261.58	258.32	276.51	277.20	-	6.38	6.41	6.93	7.00	-
3621	Motors and generators	264.45	259.05	275.20	278.90	-	6.45	6.46	6.88	6.99	-
3622	Industrial controls	252.55	249.64	277.01	272.74	-	6.19	6.21	6.96	6.94	-
363	Household appliances	251.77	250.04	255.68	267.93	-	6.31	6.33	6.80	6.87	-
3632	Household refrigerators and freezers	280.85	279.61	272.16	301.04	-	6.85	6.87	7.56	7.66	-
3633	Household laundry equipment	289.02	299.88	298.37	310.79	-	7.28	7.35	8.13	8.01	-
3634	Electric housewares and fans	206.06	201.08	218.01	223.22	-	5.23	5.25	5.59	5.68	-
364	Electric lighting and wiring equipment	232.80	228.52	248.61	248.29	-	5.82	5.80	6.31	6.35	-
3641	Electric lamps	244.11	246.25	281.29	273.04	-	6.18	6.25	6.98	6.93	-
3643	Current-carrying wiring devices	221.64	217.34	239.99	237.20	-	5.47	5.42	5.97	5.99	-
3644	Noncurrent-carrying wiring devices	239.79	234.52	258.96	260.80	-	6.04	6.06	6.64	6.67	-
3645	Residential lighting fixtures	177.17	173.50	184.02	185.00	-	4.59	4.59	4.96	5.00	-
365	Radio and TV receiving equipment	230.89	220.88	229.59	246.01	-	5.89	5.89	6.09	6.44	-
3651	Radio and TV receiving sets	237.51	227.10	236.38	252.79	-	6.09	6.04	6.27	6.67	-
366	Communication equipment	294.99	292.23	311.58	314.36	-	7.16	7.18	7.77	7.82	-
3661	Telephone and telegraph apparatus	298.91	294.89	319.60	320.80	-	7.22	7.21	7.99	8.04	-
3662	Radio and TV communication equipment	291.92	289.98	306.28	310.23	-	7.12	7.16	7.60	7.66	-
367	Electronic components and accessories	214.77	207.73	234.24	235.01	-	5.29	5.34	5.93	5.98	-
3671-3	Electronic tubes	280.14	276.34	308.16	309.75	-	6.67	6.74	7.39	7.50	-
3674	Semiconductors and related devices	250.16	230.44	264.40	263.25	-	5.90	5.97	6.66	6.75	-
3679	Electronic components, nec	198.70	196.28	222.16	223.34	-	4.98	5.02	5.61	5.64	-
369	Misc. electrical equipment and supplies	300.85	294.80	301.07	310.47	-	7.41	7.37	7.70	7.88	-
3691	Storage batteries	291.21	284.99	291.06	295.51	-	7.41	7.48	7.70	7.82	-
3694	Engine electrical equipment	336.60	329.26	329.64	344.37	-	8.25	8.09	8.54	8.83	-
37	TRANSPORTATION EQUIPMENT	351.44	350.10	361.49	369.08	367.88	8.53	8.56	9.06	9.25	9.29
371	Motor vehicles and equipment	378.90	373.92	366.27	377.71	-	9.13	9.12	9.44	9.76	-
3711	Motor vehicles and car bodies	410.33	409.45	396.68	404.70	-	9.84	9.89	10.25	10.65	-
3713	Truck and bus bodies	287.60	287.82	295.09	311.26	-	7.19	7.38	7.89	7.86	-
3714	Motor vehicle parts and accessories	372.44	363.32	356.85	370.75	-	8.91	8.84	9.15	9.41	-
3715,6	Truck trailers and motor homes	236.38	235.30	262.89	256.94	-	6.03	6.08	6.90	6.87	-
372	Aircraft and parts	343.05	346.46	379.54	382.39	-	8.11	8.21	9.08	9.17	-
3721	Aircraft	351.53	356.59	391.94	397.99	-	8.33	8.43	9.49	9.59	-
3724	Aircraft engines and engine parts	351.12	355.73	384.47	382.12	-	8.38	8.49	9.22	9.32	-
3728	Aircraft equipment, nec	317.77	316.73	352.56	352.67	-	7.39	7.47	8.18	8.24	-
373	Ship and boat building and repairing	273.67	272.16	329.26	336.61	-	7.09	7.20	8.15	8.23	-
3731	Shipbuilding and repairing	287.96	286.90	345.17	350.99	-	7.46	7.57	8.46	8.54	-
3732	Boat building and repairing	227.15	224.85	265.69	277.20	-	5.90	5.98	6.83	6.93	-
374	Railroad equipment	365.03	381.55	376.74	381.02	-	8.86	9.02	9.76	9.82	-

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				
		June 1979	July 1979	May 1980	June P 1980 P	July P 1980 P	June 1979	July 1979	May 1980	June P 1980 P	July P 1980 P
	MACHINERY, EXCEPT ELECTRICAL—Continued										
3531	Construction machinery	40.9	40.1	38.3	38.7	-	2.5	2.3	1.1	1.1	-
3532	Mining machinery	41.8	41.7	41.2	41.1	-	3.1	3.0	2.7	2.5	-
3533	Oil field machinery	43.0	41.7	44.1	44.2	-	4.6	4.5	5.8	5.4	-
3535	Conveyers and conveying equipment	42.9	41.3	40.3	40.9	-	4.2	4.0	3.2	2.9	-
3537	Industrial trucks and tractors	41.6	39.7	39.0	39.2	-	3.3	2.5	1.8	2.0	-
354	Metalworking machinery	43.7	42.5	42.3	42.3	-	5.6	5.1	4.6	4.5	-
3541	Machine tools, metal cutting types	44.0	42.6	43.9	43.4	-	5.8	5.3	6.1	6.0	-
3542	Machine tools, metal forming types	42.7	41.1	41.8	41.4	-	6.5	6.0	4.5	4.8	-
3544	Special dies, tools, jigs, and fixtures	44.6	43.5	42.9	43.0	-	6.1	5.6	5.0	4.9	-
3545	Machine tool accessories	42.5	41.7	41.7	41.3	-	5.2	4.8	4.0	3.8	-
3546	Power driven hand tools	41.4	39.9	38.2	39.2	-	4.0	3.1	1.7	1.8	-
355	Special industry machinery	41.8	40.8	41.1	41.1	-	3.8	3.4	3.1	3.1	-
3551	Food products machinery	41.0	40.0	40.8	40.4	-	3.0	2.8	2.6	2.4	-
3552	Textile machinery	41.5	40.2	40.5	40.5	-	3.2	2.5	2.4	2.3	-
3555	Printing trades machinery	42.7	41.4	42.6	42.4	-	3.9	3.7	4.0	3.6	-
356	General industrial machinery	41.7	40.8	40.9	40.8	-	4.2	3.6	3.5	3.2	-
3561	Pumps and pumping equipment	41.4	40.0	40.1	39.7	-	3.6	3.0	2.5	2.4	-
3562	Ball and roller bearings	42.1	41.8	42.2	42.2	-	4.7	4.5	5.0	4.7	-
3563	Air and gas compressors	42.3	41.1	42.9	41.1	-	3.9	3.0	5.1	3.6	-
3564	Blowers and fans	41.7	41.1	41.0	41.7	-	4.5	3.4	3.4	3.5	-
3566	Speed changers, drives, and gears	44.1	42.9	41.3	41.2	-	5.9	4.9	3.6	3.3	-
3568	Power transmission equipment, nec	41.4	40.5	39.7	40.2	-	4.2	4.1	2.5	2.2	-
357	Office and computing machines	41.7	41.0	41.2	41.4	-	2.8	2.3	2.5	2.4	-
3573	Electronic computing equipment	41.9	41.2	41.4	41.5	-	2.8	2.3	2.5	2.5	-
358	Refrigeration and service machinery	40.5	39.7	39.1	39.2	-	2.6	2.2	1.5	1.6	-
3585	Refrigeration and heating equipment	41.0	40.6	39.0	39.0	-	2.9	2.6	1.6	1.5	-
359	Misc. machinery, except electrical	41.2	41.0	40.9	40.3	-	4.3	4.1	3.7	3.4	-
3592	Carburetors, pistons, rings, valves	41.4	40.9	39.7	39.5	-	3.4	3.7	1.9	2.1	-
3599	Machinery, except electrical, nec	41.2	41.0	41.1	40.5	-	4.4	4.1	4.0	3.6	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	40.5	39.6	39.3	39.4	38.5	2.8	2.4	1.9	1.9	-
361	Electric distributing equipment	40.7	39.4	39.2	38.8	-	3.2	2.7	2.1	2.1	-
3612	Transformers	40.8	39.3	39.9	39.6	-	3.6	2.9	2.7	2.5	-
3613	Switchgear and switchboard apparatus	40.5	39.5	38.7	38.1	-	2.8	2.5	1.6	1.7	-
362	Electrical industrial apparatus	41.0	40.3	39.9	39.6	-	3.1	2.9	2.1	2.0	-
3621	Motors and generators	41.0	40.1	40.0	39.9	-	3.2	2.8	2.0	2.1	-
3622	Industrial controls	40.8	40.2	39.8	39.3	-	2.6	2.4	2.1	1.8	-
363	Household appliances	39.9	39.5	37.6	39.0	-	2.5	2.1	1.2	1.5	-
3632	Household refrigerators and freezers	41.0	40.7	36.0	39.3	-	3.0	2.7	.9	1.2	-
3633	Household laundry equipment	39.7	40.8	36.7	38.8	-	.5	1.1	.3	.4	-
3634	Electric housewares and fans	39.4	38.3	39.0	39.3	-	2.5	1.8	1.4	1.7	-
364	Electric lighting and wiring equipment	40.0	39.4	39.4	39.1	-	2.5	2.3	1.9	1.7	-
3641	Electric lamps	39.5	39.4	40.3	39.4	-	1.7	1.3	2.0	1.3	-
3643	Current-carrying wiring devices	40.5	40.1	40.2	39.6	-	2.7	2.8	2.1	1.9	-
3644	Noncurrent-carrying wiring devices	39.7	38.7	39.0	39.1	-	2.3	1.6	1.4	1.3	-
3645	Residential lighting fixtures	38.6	37.8	37.1	37.0	-	1.8	2.0	.7	.7	-
365	Radio and TV receiving equipment	39.2	37.5	37.7	38.2	-	2.6	2.0	1.1	1.3	-
3651	Radio and TV receiving sets	39.0	37.6	37.7	37.9	-	2.4	1.8	1.2	1.3	-
366	Communication equipment	41.2	40.7	40.1	40.2	-	2.7	2.6	2.0	2.0	-
3661	Telephone and telegraph apparatus	41.4	40.9	40.0	39.9	-	3.3	2.9	1.9	1.8	-
3662	Radio and TV communication equipment	41.0	40.5	40.3	40.5	-	2.3	2.4	2.0	2.2	-
367	Electronic components and accessories	40.6	38.9	39.5	39.3	-	2.9	2.5	2.3	2.2	-
3671-3	Electronic tubes	42.0	41.0	41.7	41.3	-	2.3	1.9	2.3	2.4	-
3674	Semiconductors and related devices	42.4	38.6	39.7	39.0	-	3.7	3.0	2.8	2.3	-
3679	Electronic components, nec	39.9	39.1	39.6	39.6	-	2.8	2.4	2.3	2.2	-
369	Misc. electrical equipment and supplies	40.6	40.0	39.1	39.4	-	2.9	2.1	1.3	1.3	-
3691	Storage batteries	39.3	38.1	37.8	38.3	-	2.8	2.5	.7	.8	-
3694	Engine electrical equipment	40.8	40.7	38.6	39.0	-	3.2	2.1	.9	.8	-
37	TRANSPORTATION EQUIPMENT	41.2	40.9	39.9	39.9	39.6	4.3	4.3	2.6	2.7	-
371	Motor vehicles and equipment	41.5	41.0	38.8	38.7	-	4.7	4.6	1.5	1.6	-
3711	Motor vehicles and car bodies	41.7	41.4	38.7	38.0	-	5.5	5.7	1.6	1.4	-
3713	Truck and bus bodies	40.0	39.0	37.4	39.6	-	3.4	2.9	1.5	2.6	-
3714	Motor vehicle parts and accessories	41.8	41.1	39.0	39.4	-	4.2	3.9	1.5	1.8	-
3715,6	Truck trailers and motor homes	39.2	38.7	38.1	37.4	-	2.5	2.4	1.0	1.1	-
372	Aircraft and parts	42.3	42.2	41.8	41.7	-	4.5	4.7	4.0	3.9	-
3721	Aircraft	42.2	42.3	41.3	41.5	-	4.0	4.2	3.2	3.3	-
3724	Aircraft engines and engine parts	41.9	41.9	41.7	41.0	-	4.9	5.2	4.7	4.4	-
3728	Aircraft equipment, nec	43.0	42.4	43.1	42.8	-	5.3	5.2	4.9	4.6	-
373	Ship and boat building and repairing	38.6	37.8	40.4	40.9	-	2.9	3.1	3.4	3.8	-
3731	Ship building and repairing	38.6	37.9	40.8	41.1	-	3.1	3.4	3.5	3.9	-
3732	Boat building and repairing	38.5	37.6	38.9	40.0	-	2.3	2.2	2.9	3.4	-
374	Railroad equipment	41.2	42.3	38.6	38.8	-	4.2	5.0	2.2	2.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1979	July 1979	May 1980	June 1980P	July 1980P	June 1979	July 1979	May 1980	June 1980P	July 1980P
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	\$336.17	\$337.84	\$366.53	\$369.65	-	\$8.12	\$8.22	\$9.05	\$9.06	-
3761	Guided missiles and space vehicles	334.56	336.56	371.59	373.42	-	8.16	8.31	9.13	9.13	-
379	Miscellaneous transportation equipment	244.98	243.08	271.03	264.33	-	6.43	6.38	7.17	7.03	-
3792	Travel trailers and campers	207.32	199.82	219.56	216.35	-	5.68	5.52	6.15	5.96	-
38	INSTRUMENTS AND RELATED PRODUCTS	249.08	248.65	270.82	275.27	\$270.07	6.12	6.17	6.72	6.78	\$6.82
381	Engineering and scientific instruments	266.39	263.90	289.95	292.86	-	6.45	6.50	6.97	7.04	-
382	Measuring and controlling devices	254.20	253.17	278.94	284.00	-	6.17	6.19	6.82	6.91	-
3822	Environmental controls	231.05	230.88	244.90	245.07	-	5.82	5.86	6.20	6.22	-
3823	Process control instruments	260.18	261.04	291.89	294.93	-	6.18	6.26	6.71	6.78	-
3825	Instruments to measure electricity	268.97	272.16	301.66	311.25	-	6.45	6.48	7.43	7.50	-
383	Optical instruments and lenses	294.70	295.24	293.63	296.64	-	6.52	6.71	7.25	7.20	-
384	Medical instruments and supplies	207.48	205.06	223.65	227.48	-	5.32	5.34	5.72	5.73	-
3841	Surgical and medical instruments	201.61	199.17	216.91	223.44	-	5.13	6.12	5.45	5.49	-
3842	Surgical appliances and supplies	213.56	210.69	229.67	230.68	-	5.49	5.53	5.95	5.93	-
385	Ophthalmic goods	191.49	191.67	209.62	211.47	-	4.91	4.94	5.28	5.30	-
386	Photographic equipment and supplies	324.24	323.95	353.33	359.51	-	7.72	7.75	8.66	8.79	-
387	Watches, clocks, and watchcases	181.07	175.31	196.60	200.20	-	4.74	4.70	5.16	5.20	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	194.11	192.89	206.28	208.35	209.17	4.99	5.01	5.40	5.44	5.49
391	Jewelry, silverware, and plated ware	196.84	189.01	216.38	214.13	-	5.18	5.15	5.77	5.71	-
3911	Jewelry, precious metal	187.82	182.22	209.39	204.57	-	5.09	5.09	5.69	5.62	-
393	Musical instruments	197.20	199.98	205.67	202.13	-	4.93	4.95	5.37	5.39	-
394	Toys and sporting goods	174.96	169.34	189.20	192.89	-	4.58	4.54	4.94	5.01	-
3942, 4	Dolls, games, toys, and children's vehicles	167.90	164.87	181.44	183.26	-	4.43	4.42	4.80	4.81	-
3949	Sporting and athletic goods, nec	180.86	173.07	196.72	201.89	-	4.71	4.64	5.07	5.19	-
395	Pens, pencils, office and art supplies	209.61	209.90	221.20	226.29	-	5.15	5.17	5.53	5.56	-
396	Costume jewelry and notions	163.54	165.17	174.38	175.97	-	4.27	4.29	4.65	4.68	-
3961	Costume jewelry	149.48	154.16	162.58	166.13	-	4.04	4.10	4.43	4.49	-
399	Miscellaneous manufactures	218.67	221.20	225.55	228.22	-	5.55	5.60	5.92	5.99	-
3993	Signs and advertising displays	226.58	229.32	245.75	246.83	-	5.78	5.88	6.45	6.53	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	247.16	251.83	270.75	270.58	275.22	6.21	6.28	6.82	6.85	6.95
201	Meat products	250.80	260.89	274.03	269.10	-	6.27	6.41	6.92	6.90	-
2011	Meat packing plants	318.10	331.99	355.32	349.03	-	7.61	7.83	8.44	8.37	-
2013	Sausages and other prepared meats	294.80	306.59	321.58	316.81	-	7.37	7.57	7.96	7.96	-
2016	Poultry dressing plants	158.18	163.41	163.02	159.22	-	4.13	4.19	4.43	4.46	-
202	Dairy products	261.88	264.39	282.83	283.92	-	6.28	6.31	6.75	6.76	-
2022	Cheese, natural and processed	242.19	245.62	255.36	257.22	-	5.98	6.02	6.40	6.32	-
2026	Fluid milk	271.93	277.75	298.63	303.45	-	6.49	6.58	7.01	7.09	-
203	Preserved fruits and vegetables	202.31	209.13	221.16	217.09	-	5.31	5.39	5.82	5.82	-
2032	Canned specialties	249.90	252.72	224.46	235.01	-	6.14	6.24	6.45	6.51	-
2033	Canned fruits and vegetables	197.27	204.06	229.03	217.44	-	5.39	5.37	5.98	5.99	-
2037	Frozen fruits and vegetables	190.08	198.01	216.61	202.99	-	4.95	5.17	5.47	5.37	-
204	Grain mill products	291.60	301.15	315.42	326.14	-	6.75	6.86	7.51	7.62	-
2041	Flour and other grain mill products	310.50	327.36	333.58	335.48	-	6.90	7.04	7.53	7.59	-
2048	Prepared feeds, nec	238.82	250.32	256.81	262.22	-	5.44	5.60	6.10	6.07	-
205	Bakery products	252.20	254.80	278.78	279.69	-	6.50	6.55	7.13	7.19	-
2051	Bread, cake, and related products	253.87	256.97	279.41	281.05	-	6.56	6.64	7.22	7.30	-
2052	Cookies and crackers	249.40	247.83	277.26	276.29	-	6.33	6.29	6.88	6.89	-
206	Sugar and confectionery products	239.37	236.62	254.67	261.22	-	6.06	6.13	6.53	6.63	-
2061-3	Cane and beet sugar	287.83	293.79	334.97	333.72	-	7.25	7.29	8.17	8.24	-
2065	Confectionery products	210.21	207.31	213.56	221.94	-	5.39	5.47	5.62	5.72	-
207	Fats and oils	285.75	297.20	296.92	303.73	-	6.63	6.77	6.97	7.08	-
208	Beverages	302.47	308.25	329.99	341.40	-	7.45	7.50	7.99	8.09	-
2082	Malt beverages	421.64	433.75	472.42	484.64	-	10.16	10.23	10.64	10.94	-
2086	Bottled and canned soft drinks	224.37	227.96	245.83	253.54	-	5.54	5.56	6.10	6.08	-
209	Misc. foods and kindred products	202.00	197.10	221.71	218.73	-	5.43	5.40	5.96	5.96	-
21	TOBACCO MANUFACTURES	265.59	246.56	295.67	310.70	291.93	6.81	6.83	7.64	8.07	8.27
211	Cigarettes	305.34	277.54	340.86	361.14	-	7.73	7.84	8.74	9.26	-
22	TEXTILE MILL PRODUCTS	184.78	185.54	195.02	194.74	193.61	4.54	4.65	4.90	4.93	4.99
221	Weaving mills, cotton	192.87	194.81	206.64	202.40	-	4.67	4.81	5.04	5.01	-
222	Weaving mills, synthetics	195.82	203.20	207.77	204.69	-	4.73	4.92	5.08	5.13	-
223	Weaving and finishing mills, wool	193.93	186.98	204.80	209.84	-	4.73	4.77	5.12	5.22	-
224	Narrow fabric mills	170.49	173.23	180.12	179.27	-	4.22	4.32	4.56	4.55	-
225	Knitting mills	166.06	167.09	179.24	180.86	-	4.28	4.34	4.68	4.71	-

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				
		June	July	May	June	July	June	July	May	June	July
		1979	1979	1980	1980 ^p	1980 ^p	1979	1979	1980	1980 ^p	1980 ^p
	TRANSPORTATION EQUIPMENT—Continued										
376	Guided missiles, space vehicles, parts	41.4	41.1	40.5	40.8	-	4.3	4.4	3.2	3.4	-
3761	Guided missiles and space vehicles	41.0	40.5	40.7	40.9	-	3.6	3.7	2.9	2.9	-
379	Miscellaneous transportation equipment	38.1	38.1	37.8	37.6	-	1.3	1.2	1.1	1.1	-
3792	Travel trailers and campers	36.5	36.2	35.7	36.3	-	1.1	.9	.8	.5	-
38	INSTRUMENTS AND RELATED PRODUCTS	40.7	40.3	40.3	40.6	39.6	2.4	2.1	2.2	2.1	-
381	Engineering and scientific instruments	41.3	40.6	41.6	41.6	-	2.9	3.3	2.9	2.7	-
382	Measuring and controlling devices	41.2	40.9	40.9	41.1	-	2.5	2.2	2.1	2.1	-
3822	Environmental controls	39.7	39.4	39.5	39.4	-	1.6	1.5	1.2	1.1	-
3823	Process control instruments	42.1	41.7	43.5	43.5	-	3.1	2.8	3.9	3.6	-
3825	Instruments to measure electricity	41.7	42.0	40.6	41.5	-	2.1	1.9	1.5	1.7	-
383	Optical instruments and lenses	45.2	44.0	40.5	41.2	-	4.1	3.5	3.3	3.3	-
384	Medical instruments and supplies	39.0	38.4	39.1	39.7	-	2.0	1.7	1.7	1.8	-
3841	Surgical and medical instruments	39.3	38.9	39.8	40.7	-	2.4	1.9	1.8	1.8	-
3842	Surgical appliances and supplies	38.9	38.1	38.6	38.9	-	1.8	1.6	1.9	2.0	-
385	Ophthalmic goods	39.0	38.8	39.7	39.9	-	1.8	1.4	1.7	1.8	-
386	Photographic equipment and supplies	42.0	41.8	40.8	40.9	-	2.7	2.4	2.8	2.4	-
387	Watches, clocks, and watchcases	38.2	37.3	38.1	38.5	-	1.3	.8	1.3	1.1	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	38.9	38.5	38.2	38.3	38.1	2.0	1.7	1.5	1.5	-
391	Jewelry, silverware, and plated ware	38.0	36.7	37.5	37.5	-	1.9	.8	1.5	1.6	-
3911	Jewelry, precious metal	36.9	35.8	36.8	36.4	-	1.6	.8	1.5	1.5	-
393	Musical instruments	40.0	40.4	38.3	37.5	-	1.7	1.0	1.1	.8	-
394	Toys and sporting goods	38.2	37.3	38.3	38.5	-	1.6	1.4	1.2	1.3	-
3942, 4	Dolls, games, toys, and children's vehicles	37.9	37.3	37.8	38.1	-	1.6	1.3	1.2	1.2	-
3949	Sporting and athletic goods, nec	38.4	37.3	38.8	38.9	-	1.6	1.5	1.2	1.4	-
395	Pens, pencils, office and art supplies	40.7	40.6	40.0	40.7	-	2.8	2.9	1.9	2.3	-
396	Costume jewelry and notions	38.3	38.5	37.5	37.6	-	1.8	1.5	1.7	1.7	-
3961	Costume jewelry	37.0	37.6	36.7	37.0	-	1.3	.9	1.4	1.3	-
399	Miscellaneous manufactures	39.4	39.5	38.1	38.1	-	2.4	2.2	1.6	1.5	-
3993	Signs and advertising displays	39.2	39.0	38.1	37.8	-	2.4	2.1	1.9	1.9	-
	NONDURABLE GOODS										
20	FOOD AND KINDRED PRODUCTS	39.8	40.1	39.7	39.5	39.6	3.7	4.1	3.6	3.6	-
201	Meat products	40.0	40.7	39.6	39.0	-	4.1	4.6	4.0	3.6	-
2011	Meat packing plants	41.8	42.4	42.1	41.7	-	5.0	5.2	5.3	4.8	-
2013	Sausages and other prepared meats	40.0	40.5	40.4	39.8	-	3.5	4.0	3.6	3.2	-
2016	Poultry dressing plants	38.3	39.0	36.8	35.7	-	3.6	4.2	2.7	2.3	-
202	Dairy products	41.7	41.9	41.9	42.0	-	4.3	4.3	4.3	4.3	-
2022	Cheese, natural and processed	40.5	40.8	39.9	40.7	-	3.9	3.8	3.5	4.0	-
2026	Fluid milk	41.9	42.6	42.6	42.8	-	4.3	4.4	4.5	4.6	-
203	Preserved fruits and vegetables	38.1	38.8	38.0	37.3	-	2.8	3.9	2.6	2.7	-
2032	Canned specialties	40.7	40.5	38.8	36.1	-	3.5	3.4	3.5	3.9	-
2033	Canned fruits and vegetables	36.6	38.0	38.3	36.3	-	2.6	4.8	2.5	2.5	-
2037	Frozen fruits and vegetables	38.4	38.3	39.6	37.8	-	2.7	3.4	2.9	2.9	-
204	Grain mill products	43.2	43.9	42.0	42.8	-	5.6	6.4	4.8	5.6	-
2041	Flour and other grain mill products	45.0	46.5	44.3	44.2	-	6.7	8.2	5.3	5.9	-
2048	Prepared feeds, nec	43.9	44.7	42.1	43.2	-	6.1	7.1	5.3	6.2	-
205	Bakery products	38.8	38.9	39.1	38.9	-	3.4	3.5	3.3	3.3	-
2051	Bread, cake, and related products	38.7	38.7	38.7	38.5	-	3.8	3.9	3.6	3.7	-
2052	Cookies and crackers	39.4	39.4	40.3	40.1	-	2.1	2.1	2.1	2.3	-
206	Sugar and confectionery products	39.5	38.6	39.0	39.4	-	2.4	2.4	1.9	2.0	-
2061-3	Cane and beet sugar	39.7	40.3	41.0	40.5	-	2.9	3.8	1.5	1.4	-
2065	Confectionery products	39.0	37.9	38.0	38.8	-	2.2	1.9	1.9	2.1	-
207	Fats and oils	43.1	43.9	42.6	42.9	-	5.5	6.2	4.7	5.0	-
208	Beverages	40.6	41.1	41.3	42.2	-	3.9	4.1	4.2	4.6	-
2082	Malt beverages	41.5	42.4	44.4	44.3	-	5.0	5.5	6.1	6.4	-
2086	Bottled and canned soft drinks	40.5	41.0	40.3	41.7	-	4.0	4.2	3.9	4.5	-
209	Misc. foods and kindred products	37.2	36.5	37.2	36.7	-	3.0	2.9	3.2	3.0	-
21	TOBACCO MANUFACTURES	39.0	36.1	38.7	38.5	35.3	1.1	1.0	1.7	1.3	-
211	Cigarettes	39.5	35.4	39.0	39.0	-	.9	.9	1.8	1.3	-
22	TEXTILE MILL PRODUCTS	40.7	39.9	39.8	39.5	38.8	3.6	3.2	3.0	2.8	-
221	Weaving mills, cotton	41.3	40.5	41.0	40.4	-	4.0	3.6	3.7	3.1	-
222	Weaving mills, synthetics	41.4	41.3	40.9	39.9	-	3.7	4.0	3.1	3.0	-
223	Weaving and finishing mills, wool	41.0	39.2	40.0	40.2	-	4.0	3.3	2.9	2.7	-
224	Narrow fabric mills	40.4	40.1	39.5	39.4	-	2.8	2.4	2.2	1.9	-
225	Knitting mills	38.8	38.5	38.3	38.4	-	2.9	2.5	2.4	2.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1979	July 1979	May 1980	June 1980 p	July 1980 p	June 1979	July 1979	May 1980	June 1980 p	July 1980 p
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$159.86	\$158.18	\$160.15	\$155.45	-	\$4.12	\$4.13	\$4.34	\$4.33	-
2252	Hosiery, nec	151.93	154.57	156.20	163.91	-	4.03	4.10	4.40	4.43	-
2253	Knit outerwear mills	158.38	160.45	178.94	181.97	-	4.19	4.29	4.66	4.69	-
2254	Knit underwear mills	149.88	151.10	169.72	165.89	-	4.04	4.04	4.55	4.57	-
2257	Circular knit fabric mills	191.90	188.97	207.26	216.94	-	4.75	4.76	5.08	5.19	-
226	Textile finishing, except wool	203.34	194.71	211.41	214.08	-	4.83	4.88	5.22	5.26	-
2261	Finishing plants, cotton	201.88	196.61	217.18	220.54	-	4.90	4.94	5.31	5.34	-
2262	Finishing plants, synthetics	217.37	204.00	214.94	221.68	-	5.02	5.10	5.36	5.42	-
227	Floor covering mills	199.61	196.50	194.93	197.10	-	4.73	4.84	5.05	5.08	-
228	Yarn and thread mills	172.16	174.80	183.66	182.42	-	4.23	4.37	4.58	4.63	-
2281	Yarn mills, except wool	173.86	176.92	186.86	186.53	-	4.22	4.39	4.58	4.64	-
2282	Throwing and winding mills	161.56	163.46	166.70	167.25	-	4.09	4.17	4.41	4.46	-
229	Miscellaneous textile goods	204.09	201.60	210.94	216.28	-	4.99	5.04	5.30	5.38	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	149.88	150.17	157.09	160.56	\$156.64	4.21	4.23	4.45	4.51	\$4.45
231	Men's and boys' suits and coats	179.57	181.65	193.09	191.78	-	5.03	5.06	5.29	5.24	-
232	Men's and boys' furnishings	140.89	139.29	152.15	154.14	-	3.86	3.88	4.18	4.20	-
2321	Men's and boys' shirts and nightwear	136.90	136.52	147.38	149.37	-	3.71	3.73	4.06	4.07	-
2327	Men's and boys' separate trousers	141.48	137.41	151.51	153.22	-	3.93	3.96	4.28	4.28	-
2328	Men's and boys' work clothing	143.25	141.73	154.19	154.09	-	3.82	3.81	4.09	4.12	-
233	Women's and misses' outerwear	141.04	141.79	148.95	154.44	-	4.21	4.22	4.50	4.61	-
2331	Women's and misses' blouses and waists	137.36	139.48	143.98	147.83	-	3.97	3.94	4.21	4.31	-
2335	Women's and misses' dresses	137.06	138.21	141.98	149.78	-	4.31	4.36	4.58	4.71	-
2337	Women's and misses' suits and coats	155.04	153.79	165.39	172.04	-	4.52	4.51	4.85	5.06	-
2339	Women's and misses' outerwear, nec	140.76	141.23	150.58	154.07	-	4.08	4.07	4.39	4.44	-
234	Women's and children's undergarments	136.73	134.78	147.60	147.96	-	3.83	3.84	4.10	4.11	-
2341	Women's and children's underwear	134.61	133.79	147.02	149.00	-	3.76	3.79	4.05	4.06	-
2342	Brassieres and allied garments	146.08	139.66	149.04	144.10	-	4.15	4.06	4.32	4.38	-
236	Children's outerwear	140.59	139.08	148.32	151.16	-	3.81	3.80	4.12	4.13	-
2361	Children's dresses and blouses	140.23	140.62	144.38	147.74	-	3.79	3.77	4.09	4.07	-
238	Misc. apparel and accessories	151.33	149.65	158.24	161.45	-	4.09	4.10	4.42	4.46	-
239	Misc. fabricated textile products	184.12	186.52	176.97	183.40	-	4.82	4.87	4.77	4.93	-
2391	Curtains and draperies	145.13	136.16	142.44	147.38	-	3.75	3.71	3.99	4.06	-
2392	House furnishing, nec	158.30	162.21	164.42	164.35	-	4.08	4.17	4.42	4.43	-
2396	Automotive and apparel trimmings	303.31	308.83	261.93	293.28	-	7.94	7.98	7.06	7.80	-
26	PAPER AND ALLIED PRODUCTS	302.60	305.15	318.24	324.01	333.60	7.07	7.18	7.65	7.77	8.00
261, 2, 6	Paper and pulp mills	369.37	376.52	388.96	396.47	-	8.19	8.33	8.84	8.97	-
262	Paper mills, except building paper	370.46	379.02	388.50	396.49	-	8.16	8.33	8.75	8.89	-
263	Paperboard mills	353.71	367.60	386.01	392.59	-	8.15	8.47	9.04	9.13	-
264	Misc. converted paper products	260.21	259.97	271.88	276.58	-	6.27	6.31	6.78	6.88	-
2641	Paper coating and glazing	319.16	309.06	313.25	317.82	-	7.03	7.04	7.57	7.64	-
2642	Envelopes	237.69	234.77	244.11	243.82	-	5.84	5.84	6.18	6.22	-
2643	Bags, except textile bags	244.73	249.60	257.84	262.76	-	5.94	6.00	6.43	6.52	-
265	Paperboard containers and boxes	264.38	261.76	275.93	279.16	-	6.34	6.40	6.83	6.91	-
2651	Folding paperboard boxes	268.82	267.08	287.45	290.87	-	6.48	6.53	6.96	7.06	-
2653	Corrugated and solid fiber boxes	278.81	275.37	284.92	287.52	-	6.67	6.70	7.07	7.17	-
2654	Sanitary food containers	248.94	247.28	269.94	272.33	-	5.83	5.93	6.60	6.61	-
27	PRINTING AND PUBLISHING	258.43	259.56	274.54	274.53	278.94	6.91	6.94	7.44	7.46	7.58
271	Newspapers	253.53	251.03	257.28	255.36	-	7.37	7.34	7.68	7.60	-
272	Periodicals	231.36	241.70	248.83	256.67	-	6.27	6.48	6.97	7.11	-
273	Books	235.39	241.80	253.72	244.06	-	6.13	6.20	6.59	6.65	-
2731	Book publishing	223.49	232.25	240.67	236.35	-	5.76	5.85	6.35	6.44	-
2732	Book printing	248.03	250.97	267.74	252.08	-	6.51	6.57	6.83	6.85	-
274	Miscellaneous publishing	221.29	212.40	234.78	241.49	-	6.13	6.00	6.38	6.58	-
275	Commercial printing	273.79	276.05	294.10	294.46	-	7.13	7.17	7.76	7.79	-
2751	Commercial printing, letterpress	254.60	254.39	274.14	277.85	-	6.70	6.73	7.33	7.37	-
2752	Commercial printing, lithographic	282.94	286.65	300.99	299.75	-	7.33	7.35	7.90	7.93	-
276	Manifold business forms	277.64	274.44	294.19	293.13	-	6.69	6.71	7.30	7.31	-
278	Blankbooks and bookbinding	203.45	201.17	223.29	220.22	-	5.23	5.28	5.74	5.72	-
279	Printing trade services	331.74	335.77	352.13	354.57	-	8.87	8.93	9.39	9.43	-
28	CHEMICALS AND ALLIED PRODUCTS	315.17	317.34	337.42	337.84	341.52	7.54	7.61	8.17	8.22	8.35
281	Industrial inorganic chemicals	341.54	346.94	362.97	370.53	-	8.21	8.30	8.81	8.95	-
2819	Industrial inorganic chemicals, nec	340.72	346.11	367.50	370.23	-	8.23	8.34	8.92	9.03	-
282	Plastics materials and synthetics	313.12	315.66	337.02	334.56	-	7.42	7.48	8.22	8.20	-
2821	Plastics materials and resins	347.44	345.98	375.65	368.56	-	8.08	8.16	9.03	8.87	-
2824	Organic fibers, noncellulosic	288.56	293.02	309.46	309.94	-	6.92	6.96	7.66	7.71	-
283	Drugs	275.81	280.98	310.49	310.78	-	6.81	6.87	7.61	7.58	-
2834	Pharmaceutical preparations	266.53	272.30	293.86	295.73	-	6.68	6.74	7.31	7.32	-

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				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 P	July 1980 P
TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	38.8	38.3	36.9	35.9	-	3.5	3.1	1.7	1.5	-
2252	Hosiery, nec	37.7	37.7	35.5	37.0	-	2.2	2.3	1.3	1.7	-
2253	Knit outerwear mills	37.8	37.4	38.4	38.8	-	2.0	1.8	2.3	2.3	-
2254	Knit underwear mills	37.1	37.4	37.3	36.3	-	1.3	1.0	1.6	1.3	-
2257	Circular knit fabric mills	40.4	39.7	40.8	41.8	-	4.7	3.9	4.2	4.2	-
226	Textile finishing, except wool	42.1	39.9	40.5	40.7	-	4.1	2.7	3.3	3.4	-
2261	Finishing plants, cotton	41.2	39.8	40.9	41.3	-	3.8	2.9	3.4	3.2	-
2262	Finishing plants, synthetics	43.3	40.0	40.1	40.9	-	5.0	2.6	3.1	3.7	-
227	Floor covering mills	42.2	40.6	38.6	38.8	-	4.8	4.4	2.5	2.6	-
228	Yarn and thread mills	40.7	40.0	40.1	39.4	-	3.7	3.1	3.5	3.1	-
2281	Yarn mills, except wool	41.2	40.3	40.8	40.2	-	4.0	3.3	3.7	3.2	-
2282	Throwing and winding mills	39.5	39.2	37.8	37.5	-	3.2	2.9	3.1	3.3	-
229	Miscellaneous textile goods	40.9	40.0	39.8	40.2	-	3.3	2.6	2.3	2.3	-
APPAREL AND OTHER TEXTILE PRODUCTS											
23	Men's and boys' suits and coats	35.6	35.5	35.3	35.6	35.2	1.1	.9	.9	1.0	-
231	Men's and boys' suits and coats	35.7	35.9	36.5	36.6	-	.5	.4	.9	.8	-
232	Men's and boys' furnishings	36.5	35.9	36.4	36.7	-	1.1	.8	1.0	1.1	-
2321	Men's and boys' shirts and nightwear	36.9	36.6	36.3	36.7	-	1.2	.8	.9	1.3	-
2327	Men's and boys' separate trousers	36.0	34.7	35.4	35.8	-	1.0	.7	.9	.8	-
2328	Men's and boys' work clothing	37.5	37.2	37.7	37.4	-	1.5	1.0	1.4	1.5	-
233	Women's and misses' outerwear	33.5	33.6	33.1	33.5	-	.9	.7	.7	.8	-
2331	Women's and misses' blouses and waists	34.6	35.4	34.2	34.3	-	.9	.7	.8	.8	-
2335	Women's and misses' dresses	31.8	31.7	31.0	31.8	-	.7	.7	.7	.8	-
2337	Women's and misses' suits and coats	34.3	34.1	34.1	34.0	-	1.1	.8	.8	.8	-
2339	Women's and misses' outerwear, nec	34.5	34.7	34.3	34.7	-	1.0	.8	.7	.9	-
234	Women's and children's undergarments	35.7	35.1	36.0	36.0	-	1.1	.7	.9	1.0	-
2341	Women's and children's underwear	35.8	35.3	36.3	36.7	-	1.1	.8	.9	1.1	-
2342	Brassieres and allied garments	35.2	34.4	34.5	32.9	-	.9	.5	.7	.6	-
236	Children's outerwear	36.9	36.6	36.0	36.6	-	1.3	1.1	1.0	1.2	-
2361	Children's dresses and blouses	37.0	37.3	35.3	36.3	-	1.5	1.6	.9	.9	-
238	Misc. apparel and accessories	37.0	36.5	35.8	36.2	-	1.2	.6	1.0	1.0	-
239	Misc. fabricated textile products	38.2	38.3	37.1	37.2	-	2.0	1.9	1.1	1.2	-
2391	Curtains and draperies	38.7	36.7	35.7	36.3	-	2.1	.6	.6	1.1	-
2392	House furnishings, nec	38.8	38.9	37.2	37.1	-	2.1	2.2	1.5	1.3	-
2396	Automotive and apparel trimmings	38.2	38.7	37.1	37.6	-	2.5	2.8	.8	1.0	-
PAPER AND ALLIED PRODUCTS											
26	Paper and pulp mills	42.8	42.5	41.6	41.7	41.7	4.8	4.9	3.7	3.7	-
261, 2, 6	Paper and pulp mills	45.1	45.2	44.0	44.2	-	6.6	7.0	6.0	5.9	-
262	Paper mills, except building paper	45.4	45.5	44.4	44.6	-	6.7	7.0	6.1	6.1	-
263	Paperboard mills	43.4	43.4	42.7	43.0	-	7.1	7.2	6.3	6.4	-
264	Misc. converted paper products	41.5	41.2	40.1	40.2	-	3.5	3.5	2.5	2.7	-
2641	Paper coating and glazing	45.4	43.9	41.6	41.5	-	5.4	5.0	3.0	3.0	-
2642	Envelopes	40.7	40.2	39.5	39.2	-	2.8	2.7	2.1	2.2	-
2643	Bags, except textile bags	41.2	41.6	40.1	40.3	-	3.3	3.6	2.3	2.4	-
265	Paperboard containers and boxes	41.7	40.9	40.4	40.4	-	3.7	3.5	2.0	1.8	-
2651	Folding paperboard boxes	41.5	40.9	41.3	41.2	-	3.4	3.4	3.4	3.0	-
2653	Corrugated and solid fiber boxes	41.8	41.1	40.3	40.1	-	4.2	4.1	1.2	1.1	-
2654	Sanitary food containers	42.7	41.7	40.9	41.2	-	3.3	3.3	2.6	2.5	-
PRINTING AND PUBLISHING											
27	Newspapers	37.4	37.4	36.9	36.8	36.8	2.6	2.6	2.3	2.1	-
271	Newspapers	34.4	34.2	33.5	33.6	-	2.0	1.8	1.7	1.6	-
272	Periodicals	36.9	37.3	35.7	36.1	-	1.5	1.6	1.9	1.8	-
273	Books	38.4	39.0	38.5	36.7	-	3.1	3.3	2.5	1.5	-
2731	Book publishing	38.8	39.7	37.9	36.7	-	1.8	2.3	1.4	.4	-
2732	Book printing	38.1	38.2	39.2	36.8	-	4.4	4.4	3.6	2.6	-
274	Miscellaneous publishing	36.1	35.4	36.8	36.7	-	2.0	1.6	2.0	1.5	-
275	Commercial printing	38.4	38.5	37.9	37.8	-	3.0	3.0	2.5	2.4	-
2751	Commercial printing, letterpress	38.0	37.8	37.4	37.7	-	2.5	2.6	2.0	2.2	-
2752	Commercial printing, lithographic	38.6	39.0	38.1	37.8	-	3.2	3.1	2.8	2.6	-
276	Manifold business forms	41.5	40.9	40.3	40.1	-	3.3	3.5	2.7	2.3	-
278	Blank books and bookbinding	38.9	38.1	38.9	38.5	-	1.9	2.0	1.9	1.8	-
279	Printing trade service	37.4	37.6	37.5	37.6	-	2.9	3.5	2.9	3.3	-
CHEMICALS AND ALLIED PRODUCTS											
28	Industrial inorganic chemicals	41.8	41.7	41.3	41.1	40.9	3.4	3.5	2.9	2.7	-
281	Industrial inorganic chemicals	41.6	41.8	41.2	41.4	-	3.8	3.9	2.9	3.0	-
2819	Industrial inorganic chemicals, nec	41.4	41.5	41.2	41.0	-	3.3	3.4	2.9	2.7	-
282	Plastics materials and synthetics	42.2	42.2	41.0	40.8	-	3.4	3.5	2.4	2.1	-
2821	Plastics materials and resins	43.0	42.4	41.6	41.1	-	4.4	4.3	3.4	2.5	-
2824	Organic fibers, noncellulosic	41.7	42.1	40.4	40.2	-	2.6	3.0	1.4	1.5	-
283	Drugs	40.5	40.9	40.8	41.0	-	2.4	2.4	2.9	2.8	-
2834	Pharmaceutical preparations	39.9	40.4	40.2	40.4	-	2.4	2.3	2.8	2.8	-

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				
		June 1979	July 1979	May 1980	June 1980P	July 1980P	June 1979	July 1979	May 1980	June 1980P	July 1980P
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$291.41	\$288.23	\$302.60	\$303.81	-	\$7.16	\$7.17	\$7.49	\$7.52	-
2841	Soap and other detergents	407.72	407.30	411.16	420.72	-	9.33	9.45	9.72	9.83	-
2844	Toilet preparations	222.91	218.69	240.60	236.41	-	5.76	5.71	6.00	5.97	-
2842, 3	Polishing, sanitation, and finishing preparations	259.05	257.51	271.67	272.06	-	6.46	6.47	7.02	7.03	-
285	Paints and allied products	287.28	284.81	289.41	291.27	-	6.84	6.83	7.29	7.30	-
286	Industrial organic chemicals	391.94	392.77	410.65	404.70	-	9.01	9.05	9.55	9.59	-
2865	Cyclic crudes and intermediates	360.26	366.96	353.05	355.97	-	8.32	8.34	8.59	8.64	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	403.74	402.19	430.88	420.75	-	9.26	9.31	9.86	9.90	-
287	Agricultural chemicals	306.44	307.13	337.70	343.63	-	7.11	7.33	7.71	8.01	-
289	Miscellaneous chemical products	288.84	292.52	311.30	312.29	-	6.96	7.10	7.63	7.73	-
29	PETROLEUM AND COAL PRODUCTS	404.05	413.66	425.96	435.69	\$456.40	9.31	9.38	10.07	10.30	\$10.42
291	Petroleum refining	434.02	442.10	461.78	470.11	-	10.07	10.14	10.84	11.14	-
295	Paving and roofing materials	322.99	338.11	312.23	330.38	-	7.13	7.24	7.56	7.63	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	240.54	239.19	247.26	252.31	254.02	5.91	5.95	6.34	6.42	6.53
301	Tires and inner tubes	347.76	346.86	353.77	369.55	-	8.40	8.46	9.51	9.50	-
302	Rubber and plastics footwear	154.22	155.39	181.25	178.53	-	4.08	4.10	4.41	4.43	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	260.04	247.05	261.90	272.05	-	6.09	6.10	6.75	6.87	-
306	Fabricated rubber products, nec	228.26	226.91	235.78	241.02	-	5.65	5.73	6.14	6.18	-
307	Miscellaneous plastics products	223.85	221.50	231.08	233.44	-	5.50	5.51	5.88	5.94	-
31	LEATHER AND LEATHER PRODUCTS	155.08	154.24	167.61	169.34	167.72	4.18	4.18	4.53	4.54	4.57
311	Leather tanning and finishing	216.28	203.87	240.80	244.42	-	5.56	5.51	6.02	6.05	-
314	Footwear, except rubber	149.48	150.26	162.06	164.56	-	4.04	4.05	4.38	4.40	-
3143	Men's footwear, except athletic	159.09	157.78	170.94	175.01	-	4.22	4.23	4.62	4.63	-
3144	Women's footwear, except athletic	141.60	145.10	156.09	156.77	-	3.89	4.04	4.23	4.26	-
316	Luggage	155.81	153.79	179.19	182.09	-	4.34	4.32	4.95	4.83	-
317	Handbags and personal leather goods	150.35	147.20	156.65	155.92	-	4.02	4.00	4.28	4.26	-
-	TRANSPORTATION AND PUBLIC UTILITIES	321.60	327.60	342.70	347.29	350.64	8.02	8.19	8.72	8.77	8.81
	RAILROAD TRANSPORTATION:										
4011	Class I railroads	380.61	405.28	409.88	-	-	8.67	9.19	9.51	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	208.38	236.50	213.35	216.83	-	5.92	6.29	6.22	6.34	-
411	Local and suburban transportation	290.78	295.24	273.53	273.62	-	6.99	7.08	6.96	6.98	-
413	Intercity highway transportation	333.89	366.43	337.46	343.90	-	8.65	9.07	9.40	9.50	-
42	TRUCKING AND WAREHOUSING	333.60	333.88	355.94	359.20	-	8.34	8.41	9.15	9.14	-
421, 3	Trucking and trucking terminals	340.45	341.09	363.72	367.21	-	8.49	8.57	9.35	9.32	-
422	Public warehousing	277.92	230.44	246.27	250.10	-	5.92	5.97	6.43	6.53	-
46	PIPE LINES, EXCEPT NATURAL GAS	384.81	388.63	435.42	429.39	-	9.34	9.41	10.62	10.55	-
48	COMMUNICATION	300.09	301.25	325.84	330.70	-	7.54	7.55	8.27	8.33	-
481	Telephone communication	308.74	309.91	335.02	339.55	-	7.68	7.69	8.46	8.51	-
4817	Switchboard operating employees	213.36	216.92	225.08	222.55	-	6.35	6.38	6.99	6.89	-
4818	Line construction employees	415.30	416.22	428.43	442.38	-	9.27	9.27	10.01	10.10	-
483	Radio and television broadcasting	264.19	262.74	275.15	279.65	-	6.88	6.86	7.26	7.34	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	342.32	340.31	365.29	367.38	-	8.17	8.24	8.76	8.81	-
491	Electric services	355.21	347.78	384.38	387.29	-	8.28	8.34	8.96	9.07	-
492	Gas production and distribution	305.78	307.09	330.46	332.51	-	7.55	7.62	8.20	8.21	-
493	Combination utility services	373.15	378.56	386.63	389.63	-	8.97	9.10	9.43	9.48	-
495	Sanitary services	281.48	279.86	286.21	292.18	-	6.75	6.76	6.93	6.99	-
-	WHOLESALE AND RETAIL TRADE	165.49	168.17	172.90	175.93	177.67	5.03	5.05	5.42	5.43	5.45
50, 51	WHOLESALE TRADE	247.65	249.60	265.27	267.88	268.73	6.35	6.40	6.89	6.94	6.98
50	WHOLESALE TRADE-DURABLE GOODS	250.04	251.37	265.78	268.41	-	6.33	6.38	6.85	6.90	-
501	Motor vehicles and automotive equipment	232.25	230.27	242.57	245.63	-	5.94	5.95	6.35	6.38	-
502	Furniture and home furnishings	223.56	227.24	228.78	233.63	-	5.93	5.98	6.15	6.23	-
503	Lumber and construction materials	253.04	255.12	267.33	269.95	-	6.39	6.41	6.98	7.03	-
504	Sporting goods, toys, and hobby goods	241.16	240.75	259.50	262.26	-	6.38	6.42	6.92	7.05	-

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				
		June 1979	July 1979	May 1980	June 1980 p	July 1980 p	June 1979	July 1979	May 1980	June 1980 p	July 1980 p
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.7	40.2	40.4	40.4	-	2.9	2.8	2.4	2.5	-
2841	Soap and other detergents	43.7	43.1	42.3	42.8	-	5.0	5.0	3.8	4.5	-
2844	Toilet preparations	38.7	38.3	40.1	39.6	-	1.5	1.4	2.0	1.8	-
2842, 3	Polishing, sanitation, and finishing preparations	40.1	39.8	38.7	38.7	-	2.4	2.5	1.3	1.2	-
285	Paints and allied products	42.0	41.7	39.7	39.9	-	3.6	3.4	1.8	2.0	-
286	Industrial organic chemicals	43.5	43.4	43.0	42.2	-	4.4	4.4	3.3	3.0	-
2865	Cyclic crudes and intermediates	43.3	44.0	41.1	41.2	-	4.8	4.5	2.5	2.6	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	43.6	43.2	43.7	42.5	-	4.3	4.4	3.6	3.1	-
287	Agricultural chemicals	43.1	41.9	43.8	42.9	-	4.5	4.3	5.1	4.6	-
289	Miscellaneous chemical products	41.5	41.2	40.8	40.4	-	3.2	3.1	2.8	2.4	-
29	PETROLEUM AND COAL PRODUCTS	43.4	44.1	42.3	42.3	43.8	4.2	4.5	3.7	3.3	-
291	Petroleum refining	43.1	43.6	42.6	42.2	-	3.4	3.7	3.6	2.9	-
295	Paving and roofing materials	45.3	46.7	41.3	43.3	-	7.4	8.1	4.3	5.5	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	40.7	40.2	39.0	39.3	38.9	3.4	3.0	2.1	2.1	-
301	Tires and inner tubes	41.4	41.0	37.2	38.9	-	3.7	3.7	.8	1.1	-
302	Rubber and plastics footwear	37.8	37.9	41.1	40.3	-	1.9	1.4	2.9	2.6	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	42.7	40.5	38.8	39.6	-	5.3	4.2	1.3	1.6	-
306	Fabricated rubber products, nec	40.4	39.6	38.4	39.0	-	3.0	2.5	1.6	1.9	-
307	Miscellaneous plastics products	40.7	40.2	39.3	39.3	-	3.4	3.0	2.4	2.4	-
31	LEATHER AND LEATHER PRODUCTS	37.1	36.9	37.0	37.3	36.7	1.7	1.4	1.6	1.6	-
311	Leather tanning and finishing	38.9	37.0	40.0	40.4	-	2.3	1.8	3.0	2.9	-
314	Footwear, except rubber	37.0	37.1	37.0	37.4	-	1.6	1.4	1.4	1.5	-
3143	Men's footwear, except athletic	37.7	37.3	37.0	37.8	-	1.5	.9	1.2	1.2	-
3144	Women's footwear, except athletic	36.4	37.3	36.9	36.8	-	2.0	2.1	1.7	1.7	-
316	Luggage	35.9	35.6	36.2	37.7	-	1.7	.9	2.1	2.2	-
317	Handbags and personal leather goods	37.4	36.8	36.6	36.6	-	1.8	1.7	1.4	1.5	-
-	TRANSPORTATION AND PUBLIC UTILITIES	40.1	40.0	39.3	39.6	39.8	-	-	-	-	-
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	43.9	44.1	43.1	-	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	35.2	37.6	34.3	34.2	-	-	-	-	-	-
411	Local and suburban transportation	41.6	41.7	39.3	39.2	-	-	-	-	-	-
413	Intercity highway transportation	38.6	40.4	35.9	36.2	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	40.0	39.7	38.9	39.3	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	40.1	39.8	38.9	39.4	-	-	-	-	-	-
422	Public warehousing	38.5	38.6	38.3	38.3	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	41.2	41.3	41.0	40.7	-	-	-	-	-	-
48	COMMUNICATION	39.8	39.9	39.4	39.7	-	-	-	-	-	-
481	Telephone communication	40.2	40.3	39.6	39.9	-	-	-	-	-	-
4817	Switchboard operating employees ³	33.6	34.0	32.2	32.3	-	-	-	-	-	-
4818	Line construction employees ⁴	44.8	44.9	42.8	43.8	-	-	-	-	-	-
483	Radio and television broadcasting	38.4	38.3	37.9	38.1	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.9	41.3	41.7	41.7	-	-	-	-	-	-
491	Electric services	42.9	41.7	42.9	42.7	-	-	-	-	-	-
492	Gas production and distribution	40.5	40.3	40.3	40.5	-	-	-	-	-	-
493	Combination utility services	41.6	41.6	41.0	41.1	-	-	-	-	-	-
495	Sanitary services	41.7	41.4	41.3	41.8	-	-	-	-	-	-
	WHOLESALE AND RETAIL TRADE	32.9	33.3	31.9	32.4	32.6	-	-	-	-	-
50, 51	WHOLESALE TRADE	39.0	39.0	38.5	38.6	38.5	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	39.5	39.4	38.8	38.9	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	39.1	38.7	38.2	38.5	-	-	-	-	-	-
502	Furniture and home furnishings	37.7	38.0	37.2	37.5	-	-	-	-	-	-
503	Lumber and construction materials	39.6	39.8	38.3	38.4	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.8	37.5	37.5	37.2	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1979	July 1979	May 1980	June 1980 p	July 1980 p	June 1979	July 1979	May 1980	June 1980 p	July 1980 p
WHOLESALE TRADE-DURABLE											
GOODS—Continued											
505	Metals and minerals, except petroleum	\$292.07	\$291.80	\$322.00	\$323.57	-	\$7.32	\$7.35	\$8.05	\$8.13	-
506	Electrical goods	248.57	250.26	274.63	276.97	-	6.39	6.45	7.06	7.12	-
507	Hardware, plumbing, and heating equipment	233.14	236.07	249.22	252.18	-	6.04	6.10	6.49	6.55	-
508	Machinery, equipment, and supplies	263.06	265.72	278.24	280.53	-	6.56	6.61	7.08	7.12	-
509	Miscellaneous durable goods	214.63	211.77	223.11	225.42	-	5.42	5.43	5.78	5.84	-
51	WHOLESALE TRADE-NONDURABLE GOODS	243.59	246.91	264.80	266.00	-	6.36	6.43	6.95	7.00	-
511	Paper and paper products	270.41	272.22	289.38	289.74	-	7.47	7.52	7.95	7.96	-
512	Drugs, proprietaries, and sundries	249.48	249.76	269.38	273.42	-	6.60	6.59	7.32	7.45	-
513	Apparel, piece goods, and notions	217.71	219.92	228.49	232.21	-	5.90	5.96	6.26	6.31	-
514	Groceries and related products	244.34	250.63	263.89	264.34	-	6.33	6.41	6.89	6.92	-
516	Chemicals and allied products	296.56	298.50	323.90	327.92	-	7.47	7.50	8.20	8.26	-
517	Petroleum and petroleum products	304.04	306.48	343.94	344.67	-	7.62	7.72	8.62	8.66	-
518	Petroleum and petroleum products	279.00	277.14	293.14	299.09	-	7.46	7.45	7.88	8.04	-
518	Beer, wine, and distilled beverages	199.40	200.79	219.25	219.45	-	5.22	5.27	5.68	5.70	-
519	Miscellaneous nondurable goods										
52-59	RETAIL TRADE	139.50	142.07	144.12	146.53	\$148.90	4.50	4.51	4.82	4.82	\$4.85
52	BUILDING MATERIALS AND GARDEN										
SUPPLIES											
521	Lumber and other building materials	188.21	190.85	191.94	196.72	-	4.94	4.97	5.23	5.26	-
525	Hardware stores	207.83	209.56	213.24	216.94	-	5.17	5.20	5.51	5.52	-
	Hardware stores	145.59	149.39	154.44	158.22	-	4.22	4.22	4.61	4.64	-
53	GENERAL MERCHANDISE STORES	130.80	134.33	138.04	140.24	-	4.36	4.39	4.76	4.77	-
531	Department stores	136.65	139.84	143.84	145.91	-	4.54	4.57	4.96	4.98	-
533	Variety stores	107.40	110.16	113.59	116.57	-	3.58	3.60	3.89	3.86	-
539	Misc. general merchandise stores	103.55	107.01	111.34	112.90	-	3.51	3.52	3.80	3.84	-
54	FOOD STORES	182.41	185.23	190.02	195.23	-	5.63	5.63	6.11	6.12	-
541	Grocery stores	190.57	193.47	197.50	202.87	-	5.81	5.81	6.31	6.32	-
546	Retail bakeries	129.35	132.28	136.12	140.57	-	4.37	4.38	4.63	4.67	-
55	AUTOMOTIVE DEALERS AND SERVICE										
STATIONS											
551, 2	New and used car dealers	201.85	205.13	210.19	211.69	-	5.34	5.37	5.62	5.63	-
553	Auto and home supply stores	241.96	241.96	248.41	251.90	-	6.22	6.22	6.52	6.56	-
554	Gasoline service stations	194.40	200.33	210.42	210.31	-	4.80	4.91	5.17	5.18	-
	Gasoline service stations	140.70	146.06	155.40	155.94	-	4.02	4.08	4.44	4.43	-
56	APPAREL AND ACCESSORY STORES	117.41	120.90	119.71	122.55	-	3.98	4.03	4.26	4.27	-
561	Men's and boys' clothing and furnishings	146.45	151.07	152.79	154.88	-	4.52	4.62	4.82	4.81	-
562	Women's ready-to-wear stores	103.13	106.93	107.20	109.33	-	3.67	3.70	4.03	3.99	-
565	Family clothing stores	114.26	114.76	113.16	117.99	-	3.86	3.89	4.10	4.14	-
566	Shoe stores	124.20	127.97	125.21	127.56	-	4.21	4.24	4.44	4.46	-
57	FURNITURE AND HOME FURNISHINGS										
STORES											
571	Furniture and home furnishings	183.02	184.25	185.80	189.86	-	5.17	5.19	5.37	5.44	-
572	Household appliance stores	187.09	188.15	190.36	192.79	-	5.30	5.33	5.47	5.54	-
573	Radio, television, and music stores	200.38	199.84	196.06	198.24	-	5.52	5.49	5.57	5.60	-
	Radio, television, and music stores	161.32	163.90	166.66	176.97	-	4.57	4.63	4.96	5.10	-
58	EATING AND DRINKING PLACES⁵	91.58	93.91	94.94	96.99	-	3.43	3.44	3.68	3.66	-
59	MISCELLANEOUS RETAIL	142.65	145.72	148.80	150.70	-	4.43	4.47	4.80	4.83	-
591	Drug stores and proprietary stores	126.23	129.20	129.94	131.28	-	4.02	4.05	4.45	4.45	-
594	Miscellaneous shopping goods stores	129.89	133.14	134.54	136.50	-	4.19	4.20	4.53	4.52	-
596	Nonstore retailers	176.69	180.63	186.47	192.47	-	5.29	5.36	5.72	5.78	-
598	Fuel and ice dealers	222.91	221.76	232.74	234.98	-	5.76	5.76	6.19	6.20	-
599	Retail stores, nec	149.52	154.13	159.87	158.60	-	4.49	4.56	4.73	4.85	-
-	FINANCE, INSURANCE, AND REAL										
ESTATE⁶											
		188.08	191.14	205.77	209.88	208.21	5.21	5.28	5.70	5.75	5.72
60	BANKING	162.54	166.08	175.32	181.30	-	4.49	4.55	4.87	4.90	-
602	Commercial and stock savings banks	159.64	163.52	172.44	178.34	-	4.41	4.48	4.79	4.82	-
61	CREDIT AGENCIES OTHER THAN BANKS	169.36	175.01	183.96	189.67	-	4.64	4.73	5.04	5.14	-
612	Savings and loan associations	162.81	169.28	174.47	180.20	-	4.51	4.60	4.86	4.91	-
614	Personal credit institutions	164.42	169.00	178.49	183.26	-	4.48	4.58	4.89	4.98	-
63	INSURANCE CARRIERS	208.50	209.62	236.50	236.38	-	5.62	5.65	6.29	6.27	-
631	Life insurance	207.92	207.89	248.06	244.60	-	5.65	5.68	6.46	6.42	-
632	Medical service and health insurance	205.50	207.38	226.10	229.42	-	5.48	5.53	5.95	5.99	-
633	Fire, marine, and casualty insurance	208.29	210.90	229.01	230.88	-	5.66	5.70	6.24	6.24	-

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				
		June 1979	July 1979	May 1980	June 1980 _p	July 1980 _p	June 1979	July 1979	May 1980	June 1980 _p	July 1980 _p
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.9	39.7	40.0	39.8	-	-	-	-	-	
506	Electrical goods	38.9	38.8	38.9	38.9	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.6	38.7	38.4	38.5	-	-	-	-	-	
508	Machinery, equipment, and supplies	40.1	40.2	39.3	39.4	-	-	-	-	-	
509	Miscellaneous durable goods	39.6	39.0	38.6	38.6	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS	38.3	38.4	38.1	38.0	-	-	-	-	-	
511	Paper and paper products	36.2	36.2	36.4	36.4	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	37.8	37.9	36.8	36.7	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.9	36.9	36.5	36.8	-	-	-	-	-	
514	Groceries and related products	38.6	39.1	38.3	38.2	-	-	-	-	-	
516	Chemicals and allied products	39.7	39.8	39.5	39.7	-	-	-	-	-	
517	Petroleum and petroleum products	39.9	39.7	39.9	39.8	-	-	-	-	-	
518	Beer, wine, and distilled beverages	37.4	37.2	37.2	37.2	-	-	-	-	-	
519	Miscellaneous nondurable goods	38.2	38.1	38.6	38.5	-	-	-	-	-	
52-59	RETAIL TRADE	31.0	31.5	29.9	30.4	30.7	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES	38.1	38.4	36.7	37.4	-	-	-	-	-	
521	Lumber and other building materials	40.2	40.3	38.7	39.3	-	-	-	-	-	
525	Hardware stores	34.5	35.4	33.5	34.1	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	30.0	30.6	29.0	29.4	-	-	-	-	-	
531	Department stores	30.1	30.6	29.0	29.3	-	-	-	-	-	
533	Variety stores	30.0	30.6	29.2	30.2	-	-	-	-	-	
539	Misc. general merchandise stores	29.5	30.4	29.3	29.4	-	-	-	-	-	
54	FOOD STORES	32.4	32.9	31.1	31.9	-	-	-	-	-	
541	Grocery stores	32.8	33.3	31.3	32.1	-	-	-	-	-	
546	Retail bakeries	29.6	30.2	29.4	30.1	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	37.8	38.2	37.4	37.6	-	-	-	-	-	
551.2	New and used car dealers	38.9	38.9	38.1	38.4	-	-	-	-	-	
553	Auto and home supply stores	40.5	40.8	40.7	40.6	-	-	-	-	-	
554	Gasoline service stations	35.0	35.8	35.0	35.2	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	29.5	30.0	28.1	28.7	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	32.4	32.7	31.7	32.2	-	-	-	-	-	
562	Women's ready-to-wear stores	28.1	28.9	26.6	27.4	-	-	-	-	-	
565	Family clothing stores	29.6	29.5	27.6	28.5	-	-	-	-	-	
566	Shoe stores	29.5	29.9	28.2	28.6	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES	35.4	35.5	34.6	34.9	-	-	-	-	-	
571	Furniture and home furnishings	35.3	35.3	34.8	34.8	-	-	-	-	-	
572	Household appliance stores	36.3	36.4	35.2	35.4	-	-	-	-	-	
573	Radio, television, and music stores	35.3	35.4	33.6	34.7	-	-	-	-	-	
58	EATING AND DRINKING PLACES	26.7	27.3	25.8	26.5	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	32.2	32.6	31.0	31.2	-	-	-	-	-	
591	Drug stores and proprietary stores	31.4	31.9	29.2	29.5	-	-	-	-	-	
594	Miscellaneous shopping goods stores	31.0	31.7	29.7	30.2	-	-	-	-	-	
596	Nonstore retailers	33.4	33.7	32.6	33.3	-	-	-	-	-	
598	Fuel and ice dealers	38.7	38.5	37.6	37.9	-	-	-	-	-	
599	Retail stores, nec	33.3	33.8	33.8	32.7	-	-	-	-	-	
-	FINANCE, INSURANCE, AND REAL ESTATE	36.1	36.2	36.1	36.5	36.4	-	-	-	-	
60	BANKING	36.2	36.5	36.0	37.0	-	-	-	-	-	
602	Commercial and stock savings banks	36.2	36.5	36.0	37.0	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.5	37.0	36.5	36.9	-	-	-	-	-	
612	Savings and loan associations	36.1	36.8	35.9	36.7	-	-	-	-	-	
614	Personal credit institutions	36.7	36.9	36.5	36.8	-	-	-	-	-	
63	INSURANCE CARRIERS	37.1	37.1	37.6	37.7	-	-	-	-	-	
631	Life insurance	36.8	36.6	38.4	38.1	-	-	-	-	-	
632	Medical service and health insurance	37.5	37.5	38.0	38.3	-	-	-	-	-	
633	Fire, marine, and casualty insurance	36.8	37.0	36.7	37.0	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		June 1979	July 1979	May 1980	June 1980 ^p	July 1980 ^p	June 1979	July 1979	May 1980	June 1980 ^p	July 1980 ^p
-	SERVICES	\$173.71	\$176.16	\$187.02	\$190.90	\$191.65	\$5.28	\$5.29	\$5.79	\$5.82	\$5.79
701	HOTELS AND OTHER LODGING PLACES: Hotels, motels, and tourist courts	125.20	127.44	136.00	138.79	-	4.00	3.97	4.43	4.42	-
721	PERSONAL SERVICES: Laundry, cleaning, and garment services	141.11	142.00	150.18	151.53	-	4.09	4.14	4.43	4.47	-
723	Beauty shops	127.41	124.64	129.86	129.60	-	4.11	4.10	4.30	4.32	-
73	BUSINESS SERVICES	177.89	180.84	196.20	199.65	-	5.44	5.48	6.00	6.05	-
731	Advertising	267.90	270.20	285.24	289.68	-	7.36	7.59	7.99	8.16	-
734	Services to buildings	128.51	130.97	140.76	145.15	-	4.69	4.78	5.10	5.24	-
737	Computer and data processing services	232.21	236.06	252.40	261.72	-	6.31	6.38	7.09	7.21	-
75	AUTO REPAIR, SERVICES, AND GARAGES	211.50	212.06	226.78	229.13	-	5.61	5.61	6.08	6.11	-
753	Automotive repair shops	232.06	229.90	252.59	252.98	-	5.92	5.91	6.46	6.52	-
76	MISCELLANEOUS REPAIR SERVICES	253.49	257.52	273.03	271.07	-	6.29	6.39	6.86	6.88	-
78	MOTION PICTURES	181.66	190.08	194.57	209.09	-	6.63	6.60	7.26	7.21	-
781	Motion picture production and services	366.66	373.80	411.59	429.32	-	9.45	9.56	9.99	10.37	-
79	AMUSEMENT AND RECREATION SERVICES	152.63	159.54	159.05	165.40	-	4.83	4.82	5.64	5.37	-
80	HEALTH SERVICES	168.48	172.86	182.23	185.23	-	5.09	5.16	5.59	5.63	-
801	Offices of physicians	175.03	176.25	185.92	191.54	-	5.32	5.39	5.81	5.93	-
802	Offices of dentists	148.61	148.03	161.80	163.30	-	5.16	5.14	5.56	5.67	-
805	Nursing and personal care facilities	118.42	122.36	127.51	129.48	-	3.82	3.86	4.14	4.15	-
806	Hospitals	185.61	189.81	201.45	204.26	-	5.38	5.47	5.96	5.99	-
81	LEGAL SERVICES	231.19	237.70	244.50	255.59	-	6.76	6.93	7.17	7.43	-
89	MISCELLANEOUS SERVICES	287.27	292.19	317.34	321.96	-	7.54	7.73	8.44	8.54	-
891	Engineering and architectural services	310.37	312.62	348.69	351.53	-	8.02	8.12	9.01	9.06	-
893	Accounting, auditing, and bookkeeping	251.28	260.35	263.52	267.89	-	6.63	6.98	7.20	7.38	-

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

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

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

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

⁵ Money payments only; tips, not included.

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

* Not available.

p = preliminary.

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

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		June 1979	July 1979	May 1980	June 1980 P	July 1980 P	June 1979	July 1979	May 1980	June 1980 p	July 1980 P
-	SERVICES	32.9	33.3	32.3	32.8	33.1	-	-	-	-	-
701	HOTELS AND OTHER LODGING PLACES:										
	Hotels, motels, and tourist courts	31.3	32.1	30.7	31.4	-	-	-	-	-	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	34.5	34.3	33.9	33.9	-	-	-	-	-	
723	Beauty shops	31.0	30.4	30.2	30.0	-	-	-	-	-	
73	BUSINESS SERVICES	32.7	33.0	32.7	33.0	-	-	-	-	-	
731	Advertising	36.4	35.6	35.7	35.5	-	-	-	-	-	
734	Services to buildings	27.4	27.4	27.6	27.7	-	-	-	-	-	
737	Computer and data processing services	36.8	37.0	35.6	36.3	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	37.7	37.8	37.3	37.5	-	-	-	-	-	
753	Automotive repair shops	39.2	38.9	39.1	38.8	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	40.3	40.3	39.8	39.4	-	-	-	-	-	
78	MOTION PICTURES	27.4	28.8	26.8	29.0	-	-	-	-	-	
781	Motion picture production and services	38.8	39.1	41.2	41.4	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	31.6	33.1	28.2	30.8	-	-	-	-	-	
80	HEALTH SERVICES	33.1	33.5	32.6	32.9	-	-	-	-	-	
801	Offices of physicians	32.9	32.7	32.0	32.3	-	-	-	-	-	
802	Offices of dentists	28.8	28.8	29.1	28.8	-	-	-	-	-	
805	Nursing and personal care facilities	31.0	31.7	30.8	31.2	-	-	-	-	-	
806	Hospitals	34.5	34.7	33.8	34.1	-	-	-	-	-	
81	LEGAL SERVICES	34.2	34.3	34.1	34.4	-	-	-	-	-	
89	MISCELLANEOUS SERVICES	38.1	37.8	37.6	37.7	-	-	-	-	-	
891	Engineering and architectural services	38.7	38.5	38.7	38.8	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.9	37.3	36.6	36.3	-	-	-	-	-	

ESTABLISHMENT DATA HOURS AND EARNINGS

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

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

Item	1979												
	Avg.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Executive Branch													
Total employment	2,719.8	2,677.5	2,686.3	2,688.3	2,697.4	2,720.3	2,770.2	2,783.0	2,789.6	2,697.8	2,702.7	2,707.0	2,717.2
Average weekly hours	39.5	39.7	39.7	39.5	39.5	39.4	39.4	39.8	39.5	39.4	39.3	39.7	39.5
Average overtime hours	1.2	1.2	1.1	1.1	1.1	1.0	1.0	1.2	1.2	1.4	1.4	1.3	1.4
Indexes (1967=100):													
Average weekly earnings	245.5	243.2	242.4	240.6	239.8	238.9	238.6	241.3	242.5	244.6	254.5	259.5	261.5
Average hourly earnings	244.9	241.4	240.5	240.0	239.2	238.9	238.6	238.9	241.9	244.6	255.1	257.6	260.8
Department of Defense													
Total employment	895.4	896.0	895.0	892.0	890.0	896.6	906.6	908.5	908.5	887.2	887.8	888.0	889.0
Average weekly hours	39.9	39.9	39.9	39.9	39.9	39.9	39.9	40.1	40.0	40.0	38.9	40.0	40.0
Average overtime hours .....	.9	.8	.9	.9	.8	.8	.8	.8	.9	1.2	.9	1.1	1.0
Indexes (1967=100):													
Average weekly earnings	238.5	234.7	234.7	235.2	234.4	235.2	233.6	233.4	234.5	238.0	240.4	252.3	254.0
Average hourly earnings	240.9	237.1	237.1	237.6	236.8	237.6	236.0	234.6	236.2	239.8	249.0	254.2	255.9
Postal Service													
Total employment	660.9	653.0	655.2	655.4	655.0	659.5	663.2	665.4	665.4	659.0	653.7	673.0	673.5
Average weekly hours	40.5	41.2	41.0	40.2	40.2	39.8	39.6	40.6	39.9	40.0	41.6	41.1	40.7
Average overtime hours	1.9	2.6	1.8	1.6	1.7	1.3	1.3	1.8	1.5	1.9	2.3	2.1	2.7
Indexes (1967=100):													
Average weekly earnings	283.1	280.8	276.9	271.5	271.8	268.1	274.0	281.2	283.0	286.2	300.6	296.1	305.7
Average hourly earnings	269.8	263.1	260.7	260.7	261.0	260.1	267.1	267.4	273.8	276.2	279.0	278.0	289.9
Other Agencies													
Total employment	1,163.4	1,128.5	1,136.1	1,140.9	1,152.4	1,164.2	1,200.4	1,209.1	1,215.7	1,151.6	1,161.2	1,146.0	1,154.7
Average weekly hours	38.7	38.7	38.8	38.8	38.8	38.8	38.8	39.2	38.9	38.7	38.7	38.5	38.3
Average overtime hours	1.1	.9	1.0	1.0	1.0	1.1	1.0	1.2	1.2	1.4	1.2	1.0	.9
Indexes (1967=100):													
Average weekly earnings	230.8	229.9	229.7	227.7	226.7	226.0	223.3	226.6	227.1	228.4	243.2	244.4	243.6
Average hourly earnings	231.4	230.4	229.7	227.7	226.7	226.0	223.3	224.3	226.5	229.0	243.8	246.3	246.8

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

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

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

Major industry group	Average hourly earnings excluding overtime ¹				
	June 1979	July 1979	May 1980	June 1980 ^p	July 1980 ^p
MANUFACTURING	\$6.40	\$6.46	\$6.91	\$6.98	\$7.06
DURABLE GOODS	6.82	6.87	7.38	7.46	7.52
Lumber and wood products	5.88	5.96	6.21	6.36	-
Furniture and fixtures	4.92	4.92	5.32	5.37	-
Stone, clay, and glass products	6.48	6.53	7.14	7.20	-
Primary metal industries	8.49	8.64	9.33	9.42	-
Fabricated metal products	6.55	6.57	7.10	7.19	-
Machinery, except electrical	7.00	7.03	7.62	7.69	-
Electric and electronic equipment	6.05	6.09	6.62	6.70	-
Transportation equipment	8.11	8.13	8.78	8.95	-
Instruments and related products	5.95	6.01	6.54	6.61	-
Miscellaneous manufacturing industries	4.86	4.91	5.29	5.33	-
NONDURABLE GOODS	5.72	5.81	6.22	6.27	6.39
Food and kindred products	5.93	5.97	6.52	6.55	-
Tobacco manufactures	6.71	6.74	7.48	7.93	-
Textile mill products	4.35	4.48	4.72	4.76	-
Apparel and other textile products	4.14	4.17	4.39	4.45	-
Paper and allied products	6.69	6.79	7.33	7.43	-
Printing and publishing	6.68	6.70	7.22	7.25	-
Chemicals and allied products	7.24	7.31	7.90	7.96	-
Petroleum and coal products	8.89	8.93	9.65	9.91	-
Rubber and misc. plastics products	5.68	5.73	6.17	6.25	-
Leather and leather products	4.09	4.11	4.44	4.45	-

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

^p preliminary.

ESTABLISHMENT DATA HOURS AND EARNINGS

C-5. Gross and spendable average weekly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division, in current and 1967 dollars

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
				Worker with no dependents			Married worker with 3 dependents		
	June 1979	May 1980	June 1980 ^p	June 1979	May 1980	June 1980 ^p	June 1979	May 1980	June 1980 ^p
TOTAL PRIVATE:									
Current dollars	\$219.35	\$229.95	\$233.99	\$177.59	\$185.23	\$188.05	\$194.39	\$202.49	\$205.56
1967 dollars	101.13	93.82	94.43	81.88	75.57	75.89	89.62	82.62	82.95
MINING:									
Current dollars	367.20	387.72	394.46	276.74	289.11	293.14	304.79	319.65	324.36
1967 dollars	169.29	158.19	159.18	127.59	117.96	118.30	140.52	130.42	130.90
CONSTRUCTION:									
Current dollars	347.32	360.51	371.80	264.04	272.47	279.58	290.30	299.91	308.14
1967 dollars	160.13	147.09	150.04	121.73	111.17	112.82	133.84	122.36	124.35
MANUFACTURING:									
Current dollars	269.47	280.21	283.68	212.79	220.08	222.43	232.48	240.63	243.26
1967 dollars	124.24	114.32	114.48	98.11	89.79	89.76	107.18	98.18	98.17
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	321.60	342.70	347.29	247.62	261.09	264.02	271.56	286.94	290.28
1967 dollars	148.27	139.82	140.15	114.16	106.52	106.55	125.20	117.07	117.14
WHOLESALE AND RETAIL TRADE:									
Current dollars	165.49	172.90	175.93	137.99	143.54	145.81	155.35	160.44	162.48
1967 dollars	76.30	70.54	71.00	63.62	58.56	58.84	71.62	65.46	65.57
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	188.08	205.77	209.88	154.80	167.69	170.69	170.57	183.81	187.01
1967 dollars	86.71	83.95	84.70	71.37	68.42	68.88	78.64	74.99	75.47
SERVICES:									
Current dollars	173.71	187.02	190.90	144.15	154.03	156.86	160.99	169.87	172.41
1967 dollars	80.09	76.30	77.04	66.46	62.84	63.30	74.22	69.31	69.58
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	216.9	245.1	247.8						

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

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

p=preliminary (applicable to earnings data only).

ESTABLISHMENT DATA HOURS AND EARNINGS

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

[1967=100]

Industry division and group	June 1979	July 1979	May 1980	June ^p 1980	July ^p 1980
	Hours				
TOTAL PRIVATE	128.2	127.9	123.3	125.0	124.0
GOODS-PRODUCING	112.9	110.5	102.2	103.2	99.5
MINING	157.7	152.8	163.3	169.4	162.0
CONSTRUCTION	139.6	142.4	126.0	133.7	133.5
MANUFACTURING	106.6	103.4	95.9	95.5	91.3
DURABLE GOODS	110.7	106.8	96.8	95.9	91.0
Lumber and wood products	120.6	117.2	90.5	95.3	94.1
Furniture and fixtures	108.5	104.1	97.6	95.1	88.5
Stone, clay, and glass products	117.5	114.5	101.1	101.6	99.5
Primary metal industries	100.9	98.4	83.2	79.6	72.7
Fabricated metal products	108.6	103.9	95.5	94.2	86.9
Machinery, except electrical	119.1	116.0	113.5	111.6	106.8
Electric and electronic equipment	110.7	106.6	103.0	101.0	96.0
Transportation equipment	103.5	98.4	80.7	81.0	78.1
Instruments and related products	129.5	125.9	126.0	127.4	122.1
Miscellaneous manufacturing industries	100.8	95.0	91.7	90.1	84.9
NONDURABLE GOODS	100.6	98.4	94.6	94.9	91.7
Food and kindred products	96.9	99.3	90.4	92.7	93.3
Tobacco manufactures	69.4	64.3	64.9	66.4	58.3
Textile mill products	91.5	87.2	86.8	84.3	78.5
Apparel and other textile products	91.7	86.7	87.8	89.7	82.9
Paper and allied products	103.6	102.2	96.5	97.1	94.1
Printing and publishing	103.0	103.1	103.5	103.0	102.0
Chemicals and allied products	109.2	108.0	106.4	105.2	103.2
Petroleum and coal products	124.5	126.6	113.2	114.6	120.9
Rubber and misc. plastics products	153.5	148.1	127.5	125.7	120.4
Leather and leather products	70.8	61.7	65.5	67.0	60.9
SERVICE-PRODUCING	138.9	140.0	137.9	140.1	141.1
TRANSPORTATION AND PUBLIC UTILITIES	116.5	115.6	112.7	113.8	113.7
WHOLESALE AND RETAIL TRADE	132.7	133.6	129.6	131.5	132.0
WHOLESALE TRADE	135.2	135.0	133.2	133.8	133.4
RETAIL TRADE	131.7	133.1	128.2	130.5	131.5
FINANCE, INSURANCE, AND REAL ESTATE	146.9	148.4	149.6	153.6	153.4
SERVICES	155.4	157.7	157.5	160.3	162.7

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	June 1979	July 1979	May 1980	June 1980 ^P	July 1980 ^P
	Payrolls				
TOTAL PRIVATE	292.5	293.8	302.0	308.2	306.5
GOODS-PRODUCING	268.4	265.7	260.2	265.7	259.3
MINING	420.5	409.5	465.0	484.1	461.4
CONSTRUCTION	310.2	320.5	299.4	318.9	322.1
MANUFACTURING	251.6	245.9	242.1	243.4	235.2
DURABLE GOODS	263.0	254.8	245.6	246.0	235.0
Lumber and wood products	313.3	308.0	244.9	264.9	266.4
Furniture and fixtures	236.0	225.5	227.3	223.8	208.9
Stone, clay, and glass products	285.7	280.1	267.1	271.0	266.0
Primary metal industries	269.0	266.5	239.2	230.6	214.6
Fabricated metal products	249.2	238.4	234.9	234.2	215.6
Machinery, except electrical	274.0	267.2	281.5	279.2	269.0
Electric and electronic equipment	249.9	241.3	241.8	249.9	238.5
Transportation equipment	257.1	245.1	212.9	218.0	211.4
Instruments and related products	278.4	272.6	297.1	303.3	292.3
Miscellaneous manufacturing industries	214.2	202.8	210.6	208.5	198.7
NONDURABLE GOODS	232.3	230.8	236.1	239.0	235.5
Food and kindred products	228.3	236.2	233.7	240.6	245.9
Tobacco manufactures	208.3	193.6	218.6	236.2	212.5
Textile mill products	202.2	197.2	206.8	201.8	190.4
Apparel and other textile products	190.1	180.6	192.5	199.5	182.0
Paper and allied products	254.8	255.5	257.0	262.4	262.3
Printing and publishing	217.2	218.2	234.7	234.3	235.9
Chemicals and allied products	265.4	264.8	280.0	278.5	277.8
Petroleum and coal products	324.0	332.0	318.8	329.8	352.3
Rubber and misc. plastics products	330.5	321.0	294.2	293.9	286.2
Leather and leather products	143.2	124.9	143.6	147.2	134.6
SERVICE-PRODUCING	313.4	318.1	338.0	344.7	347.1
TRANSPORTATION AND PUBLIC UTILITIES	288.8	292.4	303.8	308.3	309.7
WHOLESALE AND RETAIL TRADE	296.1	299.5	311.6	316.7	319.5
WHOLESALE TRADE	298.3	300.2	319.1	322.8	323.8
RETAIL TRADE	294.8	299.1	307.4	313.3	317.1
FINANCE, INSURANCE, AND REAL ESTATE	296.5	303.5	330.2	342.0	339.4
SERVICES	358.2	364.8	398.5	407.3	411.1

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	1979						1980						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^P	July ^P
TOTAL PRIVATE	35.6	35.7	35.6	35.6	35.6	35.7	35.6	35.5	35.4	35.3	35.1	35.1	35.0
MINING ²	41.7	43.1	43.4	43.7	43.6	43.9	43.4	43.2	43.4	42.8	42.7	43.3	42.4
CONSTRUCTION	36.9	37.3	37.5	36.8	37.0	37.2	37.3	37.1	36.6	36.7	36.8	37.1	36.7
MANUFACTURING	40.1	40.1	40.1	40.1	40.1	40.2	40.3	40.1	39.8	39.8	39.3	39.1	39.1
<i>Overtime hours</i>	3.3	3.3	3.2	3.2	3.3	3.2	3.2	3.0	3.1	3.0	2.6	2.4	2.5
DURABLE GOODS	40.7	40.7	40.7	40.7	40.6	40.7	40.8	40.6	40.3	40.3	39.7	39.5	39.5
<i>Overtime hours</i>	3.5	3.4	3.3	3.3	3.3	3.2	3.3	3.1	3.2	3.0	2.5	2.4	2.4
Lumber and wood products	39.3	39.6	39.6	39.2	38.9	39.0	39.4	39.1	38.7	37.3	37.5	37.8	38.0
Furniture and fixtures	38.5	38.6	38.7	38.8	38.9	38.9	39.2	39.0	38.5	38.5	37.6	37.2	37.6
Stone, clay, and glass products	41.4	41.4	41.5	41.3	41.4	41.5	41.4	41.2	40.9	40.6	40.3	40.4	40.5
Primary metal industries	41.3	41.0	41.1	41.1	40.8	40.7	40.8	40.8	40.7	40.6	39.2	38.9	38.3
Fabricated metal products	40.7	40.6	40.7	40.8	40.7	40.9	40.9	40.8	40.7	40.8	39.9	39.8	39.8
Machinery, except electrical	41.8	41.6	41.7	41.5	41.5	41.5	41.6	41.5	41.3	41.5	41.0	40.7	40.6
Electric and electronic equipment	40.2	39.9	40.3	40.3	40.4	40.5	40.5	40.3	40.0	39.9	39.5	39.2	39.0
Transportation equipment	41.0	41.5	40.6	41.0	40.5	40.9	40.9	40.8	40.4	40.5	39.7	39.5	39.7
Instruments and related products	40.8	40.6	40.7	40.7	41.0	41.0	41.4	40.9	40.4	40.7	40.3	40.5	40.1
Miscellaneous manufacturing ind	39.0	38.9	39.0	38.9	38.9	39.0	39.2	39.1	38.6	38.5	38.3	38.2	38.6
NONDURABLE GOODS	39.2	39.3	39.3	39.3	39.4	39.4	39.5	39.4	39.0	39.1	38.9	38.5	38.6
<i>Overtime hours</i>	3.0	3.1	3.1	3.1	3.2	3.1	3.1	2.9	3.0	3.0	2.6	2.5	2.6
Food and kindred products	39.8	39.8	40.0	39.9	39.9	39.9	39.8	39.7	39.3	39.6	39.9	39.5	39.4
Tobacco manufactures	38.1	38.1	38.4	38.3	37.8	38.5	38.5	37.9	37.7	38.2	38.2	37.5	37.3
Textile mill products	40.3	40.3	40.7	40.8	41.0	41.0	41.5	41.1	40.8	40.3	39.7	39.0	39.2
Apparel and other textile products	35.3	35.3	35.2	35.4	35.3	35.6	36.0	35.9	35.3	35.8	35.3	35.2	35.0
Paper and allied products	42.5	42.6	42.5	42.6	42.7	42.8	43.0	42.9	42.6	42.5	41.7	41.4	41.7
Printing and publishing	37.5	37.8	37.5	37.4	37.5	37.4	37.8	37.4	37.2	37.2	37.1	36.9	36.9
Chemicals and allied products	41.8	41.9	41.8	41.7	42.0	41.8	42.0	41.9	41.8	41.5	41.3	41.0	41.0
Petroleum and coal products	43.6	43.6	44.0	43.5	44.4	43.4	36.9	40.7	39.7	41.1	42.5	42.3	43.3
Rubber and misc. plastics products	40.6	40.2	40.3	40.2	40.0	40.0	40.7	40.0	39.9	40.1	39.3	39.2	39.3
Leather and leather products	36.6	36.5	36.8	36.5	36.6	37.0	37.2	37.2	36.9	37.3	36.7	36.6	36.4
TRANSPORTATION AND PUBLIC UTILITIES ²	40.0	40.3	39.9	40.0	40.2	40.0	39.5	39.4	39.5	39.5	39.3	39.6	39.8
WHOLESALE AND RETAIL TRADE	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.4	32.3	32.0	32.1	32.0	31.8
WHOLESALE TRADE	38.8	38.8	38.8	38.8	38.9	38.9	38.9	38.8	38.5	38.5	38.6	38.4	38.3
RETAIL TRADE	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.4	30.3	30.0	30.1	30.0	29.8
FINANCE, INSURANCE, AND REAL ESTATE ²	36.2	36.1	36.1	36.2	36.3	36.4	36.2	36.3	36.3	36.2	36.1	36.5	36.4
SERVICES	32.8	32.7	32.7	32.6	32.7	32.8	32.7	32.7	32.7	32.6	32.5	32.6	32.6

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

^P preliminary.

² See footnote 1, table B-5.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

[1967=100]

Industry division and group	1979						1980						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June ^p	July ^p
TOTAL PRIVATE	125.8	125.9	126.0	126.1	126.4	126.8	127.1	126.9	126.0	124.8	123.4	122.5	121.8
GOODS-PRODUCING	109.4	109.3	109.5	109.1	108.7	109.4	110.1	109.1	107.3	105.2	102.2	100.2	98.4
MINING	150.8	157.6	159.4	160.9	160.8	162.5	162.0	162.1	162.9	161.7	163.2	166.2	159.5
CONSTRUCTION	128.2	129.7	130.5	128.5	129.7	132.8	137.7	134.7	126.9	124.7	124.3	123.4	120.1
MANUFACTURING	104.7	104.0	104.1	103.8	103.2	103.5	103.4	102.8	101.8	99.8	96.1	93.8	92.4
DURABLE GOODS	108.5	107.5	107.8	107.1	106.0	106.4	106.0	105.8	105.0	101.6	96.6	94.0	92.4
Lumber and wood products	113.7	114.4	114.7	113.9	111.0	109.4	109.8	108.9	106.5	95.3	90.4	90.2	91.2
Furniture and fixtures	108.3	108.6	108.6	109.1	109.4	109.1	109.7	108.9	106.9	106.1	99.0	94.6	92.2
Stone, clay, and glass products	111.3	111.3	111.4	110.4	110.1	110.4	110.3	109.6	108.0	103.5	99.4	96.9	96.6
Primary metal industries	98.1	96.6	96.0	95.4	94.1	92.9	92.7	92.4	91.8	89.9	82.4	77.6	72.3
Fabricated metal products	106.2	104.7	105.8	105.9	105.6	105.7	104.8	104.9	104.6	102.1	95.3	92.4	88.8
Machinery, except electrical	118.8	117.4	118.5	115.7	114.9	114.4	118.5	117.5	116.9	116.1	114.1	110.9	109.2
Electric and electronic equipment	109.4	106.3	109.0	109.4	109.2	110.4	110.8	109.8	109.4	108.1	103.8	100.0	98.3
Transportation equipment	101.2	102.1	99.4	98.5	95.5	98.3	91.7	93.8	93.0	85.0	79.1	79.2	80.3
Instruments and related products	127.8	127.5	127.5	127.8	128.2	128.8	130.0	129.1	128.7	128.4	126.0	125.4	124.1
Miscellaneous manufacturing ind	99.4	99.4	99.1	98.6	98.6	99.4	99.3	98.2	96.9	95.8	91.6	88.2	88.8
NONDURABLE GOODS	99.2	98.8	98.7	99.1	99.1	99.2	99.7	98.4	97.3	97.2	95.4	98.5	92.4
Food and kindred products	96.9	96.8	96.5	97.3	97.5	97.6	96.9	96.2	94.6	94.4	95.1	93.1	91.2
Tobacco manufactures	74.9	73.6	75.5	75.3	65.0	70.3	71.7	70.5	70.2	72.4	73.8	72.4	68.1
Textile mill products	89.5	89.2	89.9	90.6	91.2	91.5	92.7	91.6	91.0	89.4	86.4	82.0	80.5
Apparel and other textile products	89.6	88.3	87.7	88.5	87.8	88.5	90.3	90.5	89.2	89.3	87.2	87.0	85.6
Paper and allied products	101.7	101.8	101.5	102.0	102.0	102.1	102.9	102.5	101.6	100.4	96.7	94.5	93.9
Printing and publishing	104.0	104.8	104.3	104.5	105.6	105.2	106.9	105.9	105.1	104.8	103.6	103.4	102.9
Chemicals and allied products	107.5	107.6	107.5	107.6	108.5	108.2	109.0	108.4	108.0	107.4	106.0	103.6	102.9
Petroleum and coal products	121.2	121.2	123.2	121.9	124.4	122.4	104.9	75.7	71.4	91.6	113.8	111.6	116.0
Rubber and misc. plastics products	151.0	147.8	147.0	146.6	144.9	143.4	145.7	142.2	141.4	139.9	128.5	123.9	122.7
Leather and leather products	64.1	66.1	66.7	66.5	66.0	66.4	66.4	66.4	65.6	66.0	63.6	63.5	63.1
SERVICE-PRODUCING	137.1	137.5	137.5	137.9	138.7	138.8	138.9	139.2	139.0	138.3	138.1	138.0	138.1
TRANSPORTATION AND PUBLIC UTILITIES	114.7	116.1	115.0	115.8	116.6	115.8	114.0	113.7	113.9	113.5	112.6	112.5	112.8
WHOLESALE AND RETAIL TRADE	130.8	131.1	131.4	131.8	132.3	132.2	132.6	132.7	131.8	130.4	130.3	129.4	129.0
WHOLESALE TRADE	133.4	133.6	133.8	134.3	135.1	135.0	135.4	135.6	134.5	134.1	133.7	132.1	131.8
RETAIL TRADE	129.7	130.1	130.4	130.9	131.2	131.0	131.5	131.5	130.7	128.9	129.0	128.3	127.9
FINANCE, INSURANCE, AND REAL ESTATE	146.1	146.6	146.3	147.0	147.7	148.2	148.2	149.3	149.6	149.4	149.7	151.6	151.4
SERVICES	153.6	153.4	153.8	154.0	155.0	156.0	156.4	157.2	157.6	157.6	157.4	157.5	158.5

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

^p preliminary.

ESTABLISHMENT DATA SEASONALLY ADJUSTED

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

Industry	1979						1980						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June P	July P
Hourly Earnings Index ² (1967=100)													
TOTAL PRIVATE (in current dollars).....	230.8	232.3	234.3	235.0	237.3	239.4	240.3	242.4	245.2	246.2	248.3	250.7	251.3
MINING.....	265.0	264.7	265.6	267.7	272.0	274.6	277.0	278.5	280.9	283.7	284.2	285.1	284.5
CONSTRUCTION.....	222.1	223.2	224.5	224.7	226.5	228.1	225.8	229.8	232.2	233.0	234.2	235.4	237.0
MANUFACTURING.....	235.5	237.0	238.6	239.9	241.9	244.1	245.2	247.8	250.2	252.4	255.0	258.2	260.2
TRANSPORTATION AND PUBLIC UTILITIES.....	249.9	252.4	255.1	255.8	258.7	260.1	260.8	262.4	265.9	267.2	268.7	271.0	270.2
WHOLESALE AND RETAIL TRADE.....	223.9	225.5	227.2	227.6	229.7	231.4	234.2	235.2	237.8	238.0	239.8	241.3	242.4
FINANCE, INSURANCE, AND REAL ESTATE.....	210.1	211.4	214.0	212.9	215.7	217.9	218.4	221.1	225.7	224.9	226.3	229.3	227.0
SERVICES.....	227.5	228.7	231.6	232.3	234.9	237.8	237.7	239.7	242.7	243.0	245.7	248.5	247.7
TOTAL PRIVATE (in 1967 dollars) ³	105.5	105.2	104.9	104.1	104.1	103.8	102.7	102.2	102.0	101.4	101.4	101.5	-
Average hourly earnings													
TOTAL PRIVATE.....	\$6.17	\$6.22	\$6.26	\$6.28	\$6.34	\$6.39	\$6.41	\$6.45	\$6.51	\$6.54	\$6.57	\$6.63	\$6.65
MINING ⁴	8.54	8.50	8.59	8.59	8.73	8.75	8.88	8.90	8.95	9.10	9.08	9.11	9.08
CONSTRUCTION.....	9.29	9.33	9.39	9.40	9.48	9.55	9.46	9.64	9.75	9.79	9.83	9.89	9.95
MANUFACTURING.....	6.73	6.75	6.79	6.82	6.87	6.91	6.93	6.99	7.06	7.11	7.15	7.22	7.29
TRANSPORTATION AND PUBLIC UTILITIES ⁴	8.19	8.31	8.44	8.43	8.51	8.54	8.55	8.58	8.62	8.71	8.72	8.77	8.81
WHOLESALE AND RETAIL TRADE.....	5.07	5.11	5.13	5.15	5.20	5.23	5.28	5.31	5.37	5.38	5.42	5.45	5.47
FINANCE, INSURANCE, AND REAL ESTATE ⁴	5.28	5.28	5.37	5.35	5.41	5.48	5.53	5.60	5.68	5.68	5.70	5.75	5.72
SERVICES.....	5.36	5.40	5.45	5.47	5.54	5.60	5.60	5.64	5.72	5.72	5.78	5.87	5.87
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars.....	219.65	222.05	222.86	223.57	225.70	228.12	228.20	228.98	230.45	230.86	230.61	232.71	232.75
1967 dollars ³	100.43	100.52	99.76	99.10	99.03	98.88	97.52	96.53	95.82	95.08	94.16	94.18	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ^{3, 5}	88.99	88.95	88.24	87.61	87.44	87.17	85.97	85.06	84.35	83.68	82.89	82.80	-

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

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

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

⁴ See footnote 1, table B-5.

⁵ See footnote 2, table C-5.

p=preliminary.

NOTE: The July 1980 issue contained erroneous data for the Hourly Earnings Index for June 1979 through March 1980. Corrections have been made in this table.

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

Industry division	Millions of hours (Annual rate) ²			Percent change		
	MAY 1979	JUNE p1980	JULY p1980	July 1979 to July 1980	May 1980 to June 1980	June 1980 to July 1980
TOTAL.....	169,268	168,454	167,553	-1.7	-0.5	-0.5
PRIVATE SECTOR.....	137,238	136,413	135,472	-2.3	-0.6	-0.7
MINING.....	2,285	2,312	2,254	7.2	1.2	-2.5
CONSTRUCTION.....	8,519	8,544	8,311	-4.3	0.3	-2.7
MANUFACTURING.....	41,796	41,031	40,457	-8.3	-1.8	-1.4
DURABLE GOODS.....	25,290	24,796	24,413	-10.3	-2.0	-1.5
NONDURABLE GOODS.....	16,506	16,236	16,044	-5.1	-1.6	-1.2
TRANSPORTATION AND PUBLIC UTILITIES.....	10,635	10,518	10,547	-1.1	-1.1	0.3
WHOLESALE AND RETAIL TRADE.....	34,373	34,226	34,050	-1.0	-0.4	-0.5
FINANCE, INSURANCE, AND REAL ESTATE.....	9,660	9,816	9,742	3.7	1.6	-0.8
SERVICES.....	29,970	29,965	30,112	3.0	0.0	0.5
GOVERNMENT.....	32,030	32,041	32,081	1.1	0.0	0.1

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										
			1977	1978				1979				1980	
	1978	1979	IV	I	II	III	IV	I	II	III	IV	I	II p
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	119.3	118.3	119.0	118.5	119.1	r119.7	r119.8	r118.9	r118.3	r117.8	r117.7	r117.7	116.7
Output	140.7	144.1	136.1	136.9	140.3	141.8	144.0	144.4	143.4	143.8	144.8	144.8	140.1
Hours	118.0	121.8	114.3	r115.4	117.8	r118.4	r120.2	r121.5	r121.3	r122.0	r123.0	123.1	120.0
Compensation per hour	r231.4	r253.1	218.8	r224.6	228.8	r233.7	r238.4	244.8	r250.4	r255.7	r260.3	267.6	275.3
Real compensation per hour	r118.4	116.4	117.9	118.8	118.3	r118.2	r117.9	r117.9	r117.0	r115.8	r114.2	112.9	112.5
Unit labor costs	194.0	214.0	183.9	189.4	192.1	195.2	199.0	205.9	211.7	217.0	221.1	227.5	235.8
Unit nonlabor payments	174.3	184.4	168.5	164.8	173.9	177.0	r181.3	180.8	r183.7	r185.6	r188.3	r190.0	191.3
Implicit price deflator	187.2	203.8	178.6	180.9	185.8	188.9	192.9	197.2	202.0	206.1	209.7	214.5	220.4
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	r116.9	115.7	116.4	r116.2	116.7	r117.4	r117.6	r116.6	r115.4	r115.0	r115.2	114.9	113.7
Output	141.5	144.9	136.4	137.3	141.1	142.7	145.0	145.5	144.2	144.6	145.5	145.6	140.7
Hours	121.0	125.3	117.2	118.2	120.9	r121.6	r123.3	r124.8	r124.9	r125.7	r126.2	r126.7	123.7
Compensation per hour	r227.5	r247.9	215.1	r221.0	r224.9	r229.5	r234.4	r240.2	r244.9	r249.9	r255.6	262.2	269.0
Real compensation per hour	r116.4	r114.0	115.9	116.9	116.3	r116.1	r115.9	r115.7	r114.4	r113.2	r112.1	110.6	109.9
Unit labor costs	194.6	214.4	184.8	190.2	192.8	195.6	r199.3	206.0	r212.1	217.3	221.8	r228.2	236.6
Unit nonlabor payments	169.9	178.6	165.9	161.1	169.1	173.0	r176.1	174.3	177.6	r180.5	182.5	r185.9	189.2
Implicit price deflator	186.1	202.1	178.3	180.2	184.7	187.8	191.4	195.1	200.3	204.7	208.4	r213.7	220.3
MANUFACTURING:													
Output per hour of all persons	r128.2	r129.2	128.3	126.3	r127.7	r129.3	r129.5	r128.3	r128.8	r129.6	r129.1	r128.4	127.4
Output	134.5	138.6	130.9	130.3	133.6	135.8	138.2	139.3	138.6	138.5	138.0	137.7	129.9
Hours	r104.9	r107.3	102.0	103.1	r104.6	r105.0	r106.7	r108.6	r107.6	r106.9	r106.9	r107.2	102.0
Compensation per hour	r229.9	r250.8	218.3	r223.9	r227.1	r231.7	r236.6	r242.3	r248.0	r252.7	r258.0	r264.6	273.8
Real compensation per hour	r117.6	r115.3	117.6	118.4	117.5	r117.2	r117.0	r116.7	r115.9	r114.4	r113.2	r111.6	111.9
Unit labor costs	r179.4	194.1	170.1	177.2	177.9	179.1	182.7	189.0	192.6	195.0	199.8	r206.0	214.9
DURABLE GOODS													
Output per hour of all persons	r121.4	r121.3	122.3	r119.6	r121.4	r122.5	r122.4	r120.9	r121.4	r121.1	r120.6	r119.4	118.9
Output	129.6	133.8	125.6	124.6	128.5	131.3	134.1	135.4	134.2	133.2	132.4	131.5	122.6
Hours	r106.8	r110.3	102.7	104.2	r105.9	r107.2	r109.6	r112.0	r110.6	r110.0	r109.8	r110.1	103.1
Compensation per hour	r231.1	r251.8	220.3	225.4	r228.5	r232.7	r237.7	r243.4	r249.0	r253.6	r258.5	r266.3	276.2
Real compensation per hour	r118.3	r115.8	118.7	119.2	r118.1	r117.7	r117.6	r117.2	r116.3	r114.8	r113.4	r112.3	112.8
Unit labor costs	190.4	207.5	180.2	188.5	188.2	189.9	194.2	201.3	205.1	209.5	214.3	r223.1	232.2
NONDURABLE GOODS													
Output per hour of all persons	139.3	142.4	138.3	137.5	138.0	140.6	141.4	140.7	r141.2	r144.0	r143.4	143.7	141.3
Output	142.3	146.3	139.4	139.5	141.7	143.2	144.7	145.5	145.7	147.1	147.0	147.7	141.7
Hours	102.1	102.7	100.8	101.5	102.7	101.9	r102.4	103.4	r103.2	r102.2	r102.5	r102.8	100.3
Compensation per hour	226.7	247.2	214.3	220.6	r224.2	228.7	r232.9	238.6	r244.5	r249.3	r255.4	259.6	268.9
Real compensation per hour	116.0	113.7	115.5	116.7	115.9	115.7	115.2	114.9	r114.3	r112.9	r112.0	109.5	109.9
Unit labor costs	162.7	173.5	155.0	160.5	162.4	162.7	164.7	169.6	173.2	173.1	178.1	180.6	190.3
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	r118.0	r117.5	116.9	116.9	r118.0	r118.5	r118.8	r118.1	r117.3	r117.2	r117.1	117.1	(1)
Output	150.0	154.7	143.4	144.7	149.7	151.4	r154.2	r155.1	r154.1	154.3	155.1	r155.4	(1)
Hours	r127.1	r131.6	122.7	123.8	r126.9	r127.8	r129.8	r131.4	r131.4	r131.7	r132.4	r132.7	(1)
Compensation per hour	r225.0	r244.9	213.2	r219.0	r222.6	r226.9	r231.3	r237.3	r242.1	r247.1	r252.1	r258.8	(1)
Real compensation per hour	r115.2	r112.7	114.9	115.8	r115.1	r114.8	r114.4	r114.3	r113.1	r111.9	r110.6	109.2	(1)
Total unit costs	193.3	210.4	186.3	190.8	191.6	194.0	196.8	202.3	208.0	213.2	218.0	r224.3	(1)
Unit labor costs	190.6	208.4	182.3	187.3	188.7	191.5	194.8	201.0	206.4	210.8	215.3	221.1	(1)
Unit nonlabor costs	201.8	216.6	198.7	201.5	200.8	201.6	203.1	206.5	213.2	220.5	226.1	r234.4	(1)
Unit profits	127.2	127.8	122.2	107.1	129.2	132.7	138.7	130.3	129.2	127.5	124.0	r120.5	(1)
Implicit price deflator	183.5	198.1	176.8	178.3	182.3	184.9	188.2	191.6	196.3	200.4	204.0	208.9	(1)

p=preliminary.

r=revised.

(1) = Not Available

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	IV 1978	I 1979	II 1979	III 1979	IV 1979	I 1980	I 1978	II 1978	III 1978	IV 1978	I 1979	II 1979
	to I 1979	to II 1979	to III 1979	to IV 1979	to I 1980	to II 1980	to I 1979	to II 1979	to III 1979	to IV 1979	to I 1980	to II 1980
PRIVATE BUSINESS SECTOR:												
Output per hour of all persons	r-3.1	r-2.0	-1.4	-0.3	r-0.3	-3.1	r 0.3	r-0.7	-1.6	-1.7	r-1.0	-1.3
Output	1.2	-2.9	1.1	2.8	r 0.2	-12.5	5.5	2.2	1.4	0.5	r 0.3	-2.3
Hours	r 4.5	r-0.9	2.5	r 3.1	r 0.5	-9.7	r 5.3	r 2.9	3.0	2.3	r 1.3	-1.0
Compensation per hour	r11.0	r 9.5	r 8.7	r 7.5	r11.7	12.0	r 9.0	r 9.4	9.4	9.2	r 9.3	10.0
Real compensation per hour	r-0.2	r-2.9	r-4.1	r-5.4	r-4.5	-1.5	r-0.8	r-1.1	r-2.1	-3.2	r-4.2	-3.9
Unit labor costs	14.6	11.8	10.3	7.8	r12.1	15.5	8.7	10.2	11.2	11.1	10.5	11.4
Unit nonlabor payments	-1.0	r 6.5	4.2	r 5.9	r 3.8	2.6	9.7	r 5.7	4.8	3.9	r 5.1	4.1
Implicit price deflator	9.3	10.1	8.3	7.2	r 9.4	11.5	9.0	8.7	9.1	8.7	r 8.8	9.1
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	r-3.3	r-3.9	r-1.5	r 0.8	r-1.1	-4.1	r 0.4	r-1.1	-2.0	-2.0	r-1.4	-1.5
Output	1.2	-3.6	1.2	2.5	0.2	-12.8	5.9	2.2	1.3	0.3	0.1	-2.4
Hours	r 4.7	r 0.4	r 2.7	r 1.7	r 1.3	-9.1	r 5.5	r 3.3	3.4	2.4	r 1.5	-0.9
Compensation per hour	r10.2	r 8.1	8.5	r 9.5	r10.7	10.8	r 8.7	r 8.9	8.9	r 9.1	r 9.2	9.8
Real compensation per hour	r-0.9	r-4.2	r-4.4	r-3.6	r-5.3	-2.6	r-1.0	r-1.6	-2.5	-3.3	r-4.4	-4.0
Unit labor costs	14.0	12.5	10.1	8.6	r12.0	15.6	8.3	10.1	11.1	11.3	r10.8	11.5
Unit nonlabor payments	-3.9	r 7.7	6.6	4.6	r 7.5	7.3	8.2	5.0	4.3	3.7	r 6.6	6.5
Implicit price deflator	8.1	11.0	9.0	7.4	r10.6	13.0	8.3	8.5	9.0	8.9	r 9.5	10.0
MANUFACTURING:												
Output per hour of all persons	r-3.8	r 1.7	r 2.5	r-1.4	r-2.2	-3.2	r 1.5	r 0.9	r 0.2	r-0.3	0.1	-1.1
Output	3.2	-2.0	-0.3	-1.4	-0.9	-20.8	6.9	3.8	1.9	-0.1	-1.1	-6.3
Hours	r 7.3	r-3.6	r-2.7	-0.1	r 1.3	-18.2	r 5.3	r 2.9	r 1.7	r 0.2	-1.3	-5.2
Compensation per hour	r10.1	r 9.6	r 7.8	r 8.8	r10.5	14.7	r 8.2	r 9.2	r 9.1	r 9.1	r 9.2	10.4
Real compensation per hour	r-0.9	r-2.8	r-4.9	r-4.2	r-5.5	0.9	r-1.5	r-1.3	r-2.4	r-3.3	r-4.4	-3.5
Unit labor costs	14.5	7.9	5.2	10.3	r13.0	18.5	6.6	8.2	8.9	9.4	r 9.0	11.6
DURABLE GOODS												
Output per hour of all persons	r-4.9	1.7	r-1.1	r-1.4	r-4.1	-1.4	r 1.1	r 0.0	r-1.2	r-1.4	r-1.2	-2.0
Output	3.9	-3.6	-3.0	-2.3	r-2.8	-24.4	8.7	4.4	1.4	-1.3	-2.9	-8.6
Hours	r 9.3	-5.2	r-1.9	r-0.9	r 1.3	-23.3	r 7.5	r 4.4	r 2.	r 0.2	r-1.7	-6.8
Compensation per hour	r 9.8	9.6	r 7.6	r 8.1	r12.6	15.7	r 8.0	r 9.0	r 9.0	r 8.7	r 9.4	10.9
Real compensation per hour	r-1.3	-2.9	r-5.1	r-4.8	r-3.7	1.7	r-1.7	r-1.5	r-2.5	r-3.5	r-4.1	-3.0
Unit labor costs	15.4	7.7	8.8	9.6	r17.4	17.3	6.8	9.0	10.3	r10.3	r10.8	13.2
NONDURABLE GOODS												
Output per hour of all persons	r-2.0	r 1.4	r 8.2	r-1.5	r 0.7	-6.4	2.3	r 2.3	r 2.4	1.5	2.2	0.1
Output	2.1	0.5	3.9	-0.2	r 2.0	-15.3	4.3	2.8	2.7	1.6	1.5	-2.7
Hours	r 4.2	r-0.9	r-4.0	r 1.3	r 1.2	-9.5	1.9	r 0.5	r 0.3	0.1	r-0.6	-2.8
Compensation per hour	r10.2	r10.3	r 7.9	r10.3	r 6.7	15.2	8.1	r 9.1	r 9.0	9.7	8.8	10.0
Real compensation per hour	r-0.9	r-2.2	r-4.8	r-2.9	r-8.8	1.3	-1.5	r-1.4	r-2.4	-2.7	-4.7	-3.9
Unit labor costs	12.5	8.8	-0.2	11.9	r 5.9	23.1	5.7	6.7	6.4	8.1	6.5	9.8
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	r-2.3	r-2.7	r-0.3	r-0.4	r-0.1	(1)	r 1.0	r-0.6	r-1.1	-1.4	r-0.9	(1)
Output	2.5	-2.6	0.6	1.9	r 0.8	(1)	7.2	2.9	1.9	0.6	r 0.2	(1)
Hours	r 4.9	r 0.1	0.9	r 2.3	r 0.9	(1)	r 6.1	r 3.6	r 3.1	2.0	r 1.0	(1)
Compensation per hour	r10.8	r 8.3	r 8.5	r 8.4	r11.0	(1)	r 8.4	r 8.7	8.9	9.0	r 9.0	(1)
Real compensation per hour	r-0.4	r-4.1	-4.3	r-4.5	r-5.1	(1)	r-1.3	r-1.8	r-2.6	-3.3	r-4.5	(1)
Total unit costs	11.7	11.8	10.2	9.3	r12.2	(1)	6.1	8.6	9.9	10.8	r10.9	(1)
Unit labor costs	13.4	11.2	8.8	8.9	11.1	(1)	7.3	9.4	10.1	10.6	10.0	(1)
Unit nonlabor costs	6.8	13.5	14.6	10.6	15.4	(1)	2.5	6.2	9.4	11.3	r13.5	(1)
Unit profits	-22.1	-3.4	-5.3	-10.4	-10.9	(1)	21.7	0.0	-3.9	-10.6	r-7.6	(1)
Implicit price deflator	7.6	10.2	8.6	7.3	9.9	(1)	7.5	7.7	8.4	8.4	9.0	(1)

p=preliminary.

r=revised.

(1) = Not Available

ESTABLISHMENT 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		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
ALABAMA	\$242.43	\$254.32	(*)	41.3	39.8	(*)	\$5.87	\$6.39	(*)
Birmingham	286.35	(*)	(*)	41.5	(*)	(*)	6.90	(*)	(*)
Mobile	322.58	326.70	(*)	43.3	42.1	(*)	7.45	7.76	(*)
ALASKA	427.06	395.21	(*)	50.6	39.6	(*)	8.44	9.98	(*)
ARIZONA	264.77	290.48	(*)	40.3	40.4	(*)	6.57	7.19	(*)
Phoenix	262.91	285.82	(*)	40.2	40.2	(*)	6.54	7.11	(*)
Tucson	248.20	280.92	(*)	38.6	39.4	(*)	6.43	7.13	(*)
ARKANSAS	206.84	215.04	\$ 221.34	40.3	38.4	38.9	5.12	5.60	\$ 5.69
Fayetteville—Springdale	188.60	192.98	191.24	40.3	37.4	37.2	4.58	5.16	5.14
Fort Smith	219.78	174.64	(*)	40.4	37.0	(*)	5.44	4.72	(*)
Little Rock—North Little Rock	234.19	252.41	262.20	40.8	39.5	40.4	5.74	6.39	6.49
Pine Bluff	272.19	297.54	306.68	42.2	40.1	41.0	6.45	7.42	7.48
CALIFORNIA	278.20	(*)	(*)	39.8	(*)	(*)	6.99	(*)	(*)
Anaheim—Santa Ana—Garden Grove	252.80	(*)	(*)	39.5	(*)	(*)	6.40	(*)	(*)
Bakersfield	295.14	(*)	(*)	39.3	(*)	(*)	7.51	(*)	(*)
Fresno	244.92	(*)	(*)	39.0	(*)	(*)	5.28	(*)	(*)
Los Angeles—Long Beach	262.10	(*)	(*)	40.2	(*)	(*)	6.52	(*)	(*)
Modesto	262.64	(*)	(*)	39.2	(*)	(*)	6.70	(*)	(*)
Oxnard—Simi Valley—Ventura	242.42	(*)	(*)	39.1	(*)	(*)	6.20	(*)	(*)
Riverside—San Bernardino—Ontario	290.24	(*)	(*)	40.2	(*)	(*)	7.22	(*)	(*)
Sacramento	295.62	(*)	(*)	39.0	(*)	(*)	7.58	(*)	(*)
Salinas—Seaside—Monterey	266.95	(*)	(*)	39.2	(*)	(*)	6.81	(*)	(*)
San Diego	253.84	(*)	(*)	38.0	(*)	(*)	6.68	(*)	(*)
San Francisco—Oakland	331.63	(*)	(*)	39.2	(*)	(*)	8.46	(*)	(*)
San Jose	292.40	(*)	(*)	40.0	(*)	(*)	7.31	(*)	(*)
Santa Barbara—Santa Maria—Lompoc	241.39	(*)	(*)	37.6	(*)	(*)	6.42	(*)	(*)
Santa Rosa	247.13	(*)	(*)	37.5	(*)	(*)	6.59	(*)	(*)
Stockton	291.82	(*)	(*)	38.6	(*)	(*)	7.56	(*)	(*)
Vallejo—Fairfield—Napa	297.22	(*)	(*)	38.6	(*)	(*)	7.70	(*)	(*)
COLORADO	266.23	279.17	280.21	39.5	39.1	39.3	6.74	7.14	7.13
Denver—Boulder	266.45	278.52	281.85	39.3	38.9	39.2	6.78	7.16	7.19
CONNECTICUT	266.68	293.85	(*)	41.8	41.8	(*)	6.38	7.03	(*)
Bridgeport	286.23	305.15	(*)	43.5	42.5	(*)	6.58	7.18	(*)
Hartford	297.46	324.61	(*)	42.8	42.6	(*)	6.95	7.62	(*)
New Britain	283.37	300.62	(*)	43.0	42.4	(*)	6.59	7.09	(*)
New Haven—West Haven	273.97	283.01	(*)	41.7	40.2	(*)	6.57	7.04	(*)
Stamford	273.06	280.97	(*)	42.8	42.7	(*)	6.38	6.58	(*)
Waterbury	234.05	244.13	(*)	42.4	41.1	(*)	5.52	5.94	(*)
DELAWARE	285.60	296.96	(*)	40.8	39.7	(*)	7.00	7.48	(*)
Wilmington	325.22	339.69	(*)	40.5	40.2	(*)	8.03	8.45	(*)
DISTRICT OF COLUMBIA: Washington SMSA	300.89	(*)	(*)	39.8	(*)	(*)	7.56	(*)	(*)
FLORIDA	221.00	235.41	(*)	40.7	39.9	(*)	5.43	5.90	(*)
Fort Lauderdale—Hollywood	207.25	(*)	(*)	40.4	(*)	(*)	5.13	(*)	(*)
Jacksonville	245.39	(*)	(*)	39.9	(*)	(*)	6.15	(*)	(*)
Lakeland—Winter Haven	276.00	(*)	(*)	46.7	(*)	(*)	5.91	(*)	(*)
Miami	200.16	(*)	(*)	41.1	(*)	(*)	4.87	(*)	(*)
Orlando	229.55	(*)	(*)	40.7	(*)	(*)	5.54	(*)	(*)
Pensacola	304.42	(*)	(*)	44.9	(*)	(*)	6.78	(*)	(*)
Tampa—St. Petersburg	230.98	(*)	(*)	41.1	(*)	(*)	5.52	(*)	(*)
West Palm Beach—Boca Raton	233.45	(*)	(*)	39.5	(*)	(*)	5.91	(*)	(*)
GEORGIA	205.52	221.60	223.04	39.6	39.5	39.9	5.19	5.61	5.59
Atlanta	234.84	259.39	258.45	38.0	38.6	39.1	6.18	6.72	6.61
Savannah	277.95	294.67	301.08	40.4	40.7	41.3	6.88	7.24	7.29
HAWAII	232.50	244.48	(*)	37.2	35.9	(*)	6.25	6.81	(*)
Honolulu	226.71	239.23	(*)	36.1	35.6	(*)	6.28	5.72	(*)
IDAHO	278.95	(*)	(*)	39.4	(*)	(*)	7.08	(*)	(*)
Boise City	236.46	234.24	(*)	38.2	34.6	(*)	6.19	6.77	(*)

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
ILLINOIS	\$299.57	(*)	(*)	41.0	(*)	(*)	\$7.31	(*)	(*)
Bloomington—Normal	265.17	(*)	(*)	41.6	(*)	(*)	6.38	(*)	(*)
Champaign—Urbana—Rantoul	249.91	(*)	(*)	37.4	(*)	(*)	6.58	(*)	(*)
Chicago SMSA	284.81	(*)	(*)	40.7	(*)	(*)	7.01	(*)	(*)
Davenport—Rock Island—Moline	341.20	(*)	(*)	39.4	(*)	(*)	8.65	(*)	(*)
Decatur	332.15	(*)	(*)	41.5	(*)	(*)	8.01	(*)	(*)
Peoria	373.08	(*)	(*)	40.1	(*)	(*)	9.30	(*)	(*)
Rockford	298.62	(*)	(*)	41.8	(*)	(*)	7.14	(*)	(*)
Springfield	332.86	(*)	(*)	43.2	(*)	(*)	7.71	(*)	(*)
INDIANA	319.84	\$324.18	(*)	40.9	39.2	(*)	7.82	\$8.27	(*)
Gary—Hammond—East Chicago	423.61	(*)	(*)	41.9	(*)	(*)	10.11	(*)	(*)
Indianapolis	316.05	(*)	(*)	41.1	(*)	(*)	7.69	(*)	(*)
IOWA	311.85	340.02	\$339.47	40.5	39.4	39.2	7.70	8.63	\$8.66
Cedar Rapids	313.79	342.54	336.18	40.7	39.6	39.0	7.71	8.65	8.62
Des Moines	315.95	336.38	342.60	39.2	38.4	38.8	8.06	8.76	8.82
Dubuque	376.24	387.00	401.32	40.5	37.5	38.7	9.29	10.32	10.37
Sioux City	288.42	335.49	328.34	41.8	42.2	41.3	6.90	7.95	7.95
Waterloo—Cedar Falls	412.37	450.58	450.59	43.0	41.3	41.0	9.59	10.91	10.99
KANSAS	273.36	287.75	293.46	40.8	39.8	40.2	6.70	7.23	7.30
Topeka	247.96	297.70	291.80	37.4	39.8	39.7	6.63	7.48	7.35
Wichita	293.02	316.81	326.84	42.1	39.8	40.5	6.96	7.96	8.07
KENTUCKY	268.25	278.40	(*)	39.8	38.4	(*)	6.74	7.25	(*)
Lexington—Fayette	268.37	283.54	(*)	39.7	39.6	(*)	6.76	7.16	(*)
Louisville	314.77	(*)	(*)	41.2	(*)	(*)	7.64	(*)	(*)
LOUISIANA	282.90	317.42	318.24	41.0	40.8	41.6	6.90	7.78	7.65
Baton Rouge	367.18	422.18	423.02	42.4	43.3	42.6	8.66	9.75	9.93
New Orleans	271.26	310.54	308.38	39.6	40.7	41.9	6.85	7.63	7.36
Shreveport	254.06	273.34	(*)	40.2	39.5	(*)	6.32	6.92	(*)
MAINE	210.27	232.43	(*)	39.9	39.8	(*)	5.27	5.84	(*)
Lewiston—Auburn	177.63	188.50	(*)	38.7	37.7	(*)	4.59	5.00	(*)
Portland	207.24	223.68	(*)	39.4	38.9	(*)	5.26	5.75	(*)
MARYLAND	280.80	290.16	(*)	40.0	39.0	(*)	7.02	7.44	(*)
Baltimore	298.56	309.66	(*)	40.4	39.7	(*)	7.39	7.80	(*)
MASSACHUSETTS	238.60	(*)	(*)	40.1	(*)	(*)	5.95	(*)	(*)
Boston	260.90	(*)	(*)	40.2	(*)	(*)	6.49	(*)	(*)
Brockton	184.80	(*)	(*)	38.5	(*)	(*)	4.86	(*)	(*)
Fall River	179.30	(*)	(*)	37.2	(*)	(*)	4.82	(*)	(*)
Lawrence—Haverhill	237.55	(*)	(*)	40.4	(*)	(*)	5.88	(*)	(*)
Lowell	205.41	(*)	(*)	39.2	(*)	(*)	5.24	(*)	(*)
New Bedford	213.07	(*)	(*)	39.9	(*)	(*)	5.34	(*)	(*)
Springfield—Chicopee—Holyoke	240.37	(*)	(*)	41.3	(*)	(*)	5.82	(*)	(*)
Worcester	250.88	(*)	(*)	40.4	(*)	(*)	6.21	(*)	(*)
MICHIGAN	(*)	363.31	(*)	(*)	39.4	(*)	(*)	9.22	(*)
Ann Arbor	(*)	384.98	(*)	(*)	40.7	(*)	(*)	9.46	(*)
Battle Creek	(*)	355.24	(*)	(*)	39.7	(*)	(*)	8.95	(*)
Bay City	(*)	332.25	(*)	(*)	39.9	(*)	(*)	8.33	(*)
Detroit	(*)	396.35	(*)	(*)	40.3	(*)	(*)	9.84	(*)
Flint	(*)	404.03	(*)	(*)	38.7	(*)	(*)	10.44	(*)
Grand Rapids	(*)	294.90	(*)	(*)	39.2	(*)	(*)	7.52	(*)
Jackson	(*)	334.39	(*)	(*)	40.1	(*)	(*)	8.34	(*)
Kalamazoo—Portage	(*)	329.14	(*)	(*)	39.3	(*)	(*)	8.38	(*)
Lansing—East Lansing	(*)	375.01	(*)	(*)	39.1	(*)	(*)	9.59	(*)
Muskegon—Norton Shores—Muskegon Heights	(*)	324.73	(*)	(*)	39.5	(*)	(*)	8.22	(*)
Saginaw	(*)	398.07	(*)	(*)	38.1	(*)	(*)	10.45	(*)
MINNESOTA	276.40	295.14	294.78	40.0	39.3	39.2	6.91	7.51	7.52
Duluth—Superior	261.09	275.84	276.14	39.8	38.1	38.3	6.56	7.24	7.21
Minneapolis—St. Paul	297.34	314.03	315.99	40.4	39.5	39.4	7.36	7.95	8.02
St. Cloud	212.94	(*)	(*)	39.0	(*)	(*)	5.46	(*)	(*)

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		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
MISSISSIPPI	\$199.08	\$205.06	(*)	40.3	38.4	(*)	\$4.94	\$5.34	(*)
Jackson.....	231.29	227.08	(*)	41.9	39.7	(*)	5.52	5.72	(*)
MISSOURI	265.73	277.53	\$280.80	39.9	38.6	39.0	6.66	7.19	\$7.20
Kansas City.....	305.52	309.27	314.01	40.2	39.0	39.3	7.50	7.93	7.99
St. Joseph.....	252.09	271.88	273.62	40.4	40.1	40.9	6.24	6.78	6.69
St. Louis.....	304.56	313.86	315.83	40.5	38.7	38.8	7.52	8.11	8.14
Springfield.....	240.19	254.41	255.71	40.1	39.2	39.4	5.99	6.49	6.49
MONTANA	372.41	381.00	396.94	44.6	43.1	44.5	8.35	8.84	8.92
NEBRASKA	266.84	289.48	297.60	41.5	39.6	40.6	6.43	7.31	7.33
Lincoln.....	257.80	264.49	267.00	39.3	37.2	37.5	6.56	7.11	7.12
Omaha.....	279.88	291.83	304.72	40.8	38.5	40.2	6.86	7.58	7.58
NEVADA	261.80	273.05	(*)	38.5	37.2	(*)	6.80	7.34	(*)
Las Vegas.....	330.33	(*)	(*)	38.1	(*)	(*)	8.67	(*)	(*)
NEW HAMPSHIRE	(*)	230.17	(*)	(*)	40.1	(*)	(*)	5.74	(*)
Manchester.....	(*)	203.04	(*)	(*)	38.6	(*)	(*)	5.26	(*)
Nashua.....	(*)	249.28	(*)	(*)	40.6	(*)	(*)	6.14	(*)
NEW JERSEY	276.72	292.84	(*)	41.8	40.9	(*)	6.62	7.16	(*)
Atlantic City.....	190.85	222.69	(*)	38.4	39.0	(*)	4.97	5.71	(*)
Camden ¹	270.44	287.28	(*)	41.1	39.9	(*)	6.58	7.20	(*)
Hackensack ²	263.70	274.39	(*)	43.3	41.7	(*)	6.09	6.58	(*)
Jersey City ²	269.37	287.55	(*)	41.0	40.5	(*)	6.57	7.10	(*)
New Brunswick—Perth Amboy—Sayreville ³	303.05	327.23	(*)	41.4	40.2	(*)	7.32	8.14	(*)
Newark ²	277.86	297.36	(*)	42.1	41.3	(*)	6.60	7.20	(*)
Paterson—Clifton—Passaic ³	259.99	272.14	(*)	41.4	40.8	(*)	6.28	6.67	(*)
Trenton.....	279.86	289.15	(*)	40.5	38.4	(*)	6.91	7.53	(*)
NEW MEXICO	209.09	228.05	225.58	39.6	39.8	39.3	5.28	5.73	5.74
Albuquerque.....	212.79	247.57	238.40	39.7	41.4	40.0	5.36	5.98	5.96
NEW YORK	258.59	275.58	(*)	39.6	39.2	(*)	6.53	7.03	(*)
Albany—Schenectady—Troy.....	275.37	287.17	(*)	40.2	39.5	(*)	6.85	7.27	(*)
Binghamton.....	240.85	261.63	(*)	41.1	40.5	(*)	5.86	6.46	(*)
Buffalo.....	346.42	354.82	(*)	40.9	39.6	(*)	8.47	8.96	(*)
Elmira.....	266.80	287.75	(*)	41.3	40.7	(*)	6.46	7.07	(*)
Monroe County ³	341.94	366.80	(*)	41.7	41.4	(*)	8.20	8.86	(*)
Nassau—Suffolk ⁴	243.18	264.26	(*)	39.8	39.5	(*)	6.11	6.69	(*)
New York—Northeastern New Jersey.....	247.78	(*)	(*)	39.9	(*)	(*)	6.21	(*)	(*)
New York and Nassau—Suffolk ²	224.03	241.80	(*)	38.1	37.9	(*)	5.88	6.38	(*)
New York SMSA ⁴	219.41	235.88	(*)	37.7	37.5	(*)	5.82	6.29	(*)
New York City ⁵	216.17	231.25	(*)	37.4	37.0	(*)	5.78	6.25	(*)
Poughkeepsie.....	263.55	276.34	(*)	41.9	40.4	(*)	6.29	6.84	(*)
Rochester.....	324.53	346.06	(*)	41.5	41.1	(*)	7.82	8.42	(*)
Rockland County ⁵	253.37	272.03	(*)	40.8	40.3	(*)	6.21	6.75	(*)
Syracuse.....	284.82	312.42	(*)	40.4	41.6	(*)	7.05	7.51	(*)
Utica—Rome.....	247.65	267.46	(*)	40.4	39.8	(*)	6.13	6.72	(*)
Westchester County ⁵	246.40	273.14	(*)	40.0	41.7	(*)	6.16	6.55	(*)
NORTH CAROLINA	191.52	(*)	(*)	39.9	(*)	(*)	4.80	(*)	(*)
Asheville.....	188.87	(*)	(*)	40.1	(*)	(*)	4.71	(*)	(*)
Charlotte—Gastonia.....	196.87	(*)	(*)	41.1	(*)	(*)	4.79	(*)	(*)
Greensboro—Winston-Salem—High Point.....	209.08	(*)	(*)	39.9	(*)	(*)	5.24	(*)	(*)
Raleigh—Durham.....	215.17	(*)	(*)	39.7	(*)	(*)	5.42	(*)	(*)
NORTH DAKOTA	234.40	246.77	245.36	40.0	38.2	38.1	5.86	6.46	6.44
Fargo—Moorhead.....	253.04	273.89	277.50	39.6	38.2	37.5	6.39	7.17	7.40
OHIO	328.18	336.04	339.25	41.7	40.1	40.1	7.87	8.38	8.46
Akron.....	316.16	355.56	356.42	41.6	41.2	41.3	7.60	8.63	8.63
Canton.....	325.62	342.30	343.00	40.5	39.3	39.2	8.04	8.71	8.75
Cincinnati.....	302.22	324.34	328.00	41.4	40.9	41.0	7.30	7.93	8.00
Cleveland.....	341.65	334.80	339.20	42.6	40.0	40.0	8.02	8.37	8.48
Columbus.....	281.99	295.54	297.50	40.4	39.3	39.3	6.98	7.52	7.57
Dayton.....	349.25	338.60	344.79	42.8	40.6	40.9	8.16	8.34	8.43
Toledo.....	324.82	344.92	349.06	40.3	40.2	40.4	8.06	8.58	8.64
Youngstown—Warren.....	380.89	396.81	392.96	41.0	39.8	39.1	9.29	9.97	10.05

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		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
OKLAHOMA	\$258.73	\$292.33	\$297.08	40.3	40.1	40.2	\$6.42	\$7.29	\$7.39
Oklahoma City	262.29	323.33	330.26	41.7	41.4	41.7	6.29	7.81	7.92
Tulsa	279.28	297.94	303.42	40.3	39.1	39.0	6.93	7.62	7.78
OREGON	315.17	(*)	(*)	39.2	(*)	(*)	8.04	(*)	(*)
Eugene—Springfield	349.52	348.39	(*)	40.5	39.5	(*)	8.63	8.82	(*)
Jackson County	328.42	(*)	(*)	40.1	(*)	(*)	8.19	(*)	(*)
Portland	297.99	(*)	(*)	38.5	(*)	(*)	7.74	(*)	(*)
PENNSYLVANIA	278.29	287.21	(*)	40.1	38.5	(*)	6.94	7.46	(*)
Allentown—Bethlehem—Easton	273.22	297.96	(*)	38.0	38.2	(*)	7.19	7.80	(*)
Altoona	238.20	260.96	(*)	39.7	39.6	(*)	6.00	6.59	(*)
Delaware Valley	282.40	303.16	(*)	40.0	40.1	(*)	7.06	7.56	(*)
Erie	279.34	307.57	(*)	41.2	40.9	(*)	6.78	7.52	(*)
Harrisburg	263.11	281.00	(*)	41.5	40.2	(*)	6.34	6.99	(*)
Johnstown	295.86	307.56	(*)	39.5	37.1	(*)	7.49	8.29	(*)
Lancaster	247.45	260.80	(*)	40.9	40.0	(*)	6.05	6.52	(*)
Northeast Pennsylvania	197.42	208.99	(*)	36.9	36.6	(*)	5.35	5.71	(*)
Philadelphia SMSA	280.30	297.40	(*)	40.1	39.6	(*)	6.99	7.51	(*)
Pittsburgh	346.90	353.05	(*)	41.2	38.5	(*)	8.42	9.17	(*)
Reading	242.69	267.50	(*)	38.4	38.6	(*)	6.32	6.93	(*)
Scranton ?	196.57	197.53	(*)	37.3	35.4	(*)	5.27	5.58	(*)
Wilkes-Barre—Hazleton ?	198.20	211.81	(*)	36.5	36.9	(*)	5.43	5.74	(*)
Williamsport	239.90	253.06	(*)	39.2	38.4	(*)	6.12	6.59	(*)
York	260.18	259.52	(*)	42.1	39.5	(*)	6.18	6.57	(*)
RHODE ISLAND	197.96	(*)	(*)	39.2	(*)	(*)	5.05	(*)	(*)
Providence—Warwick—Pawtucket	197.68	(*)	(*)	39.3	(*)	(*)	5.03	(*)	(*)
SOUTH CAROLINA	203.09	215.82	(*)	40.7	39.6	(*)	4.99	5.45	(*)
Charleston—North Charleston	229.14	255.44	(*)	40.7	40.1	(*)	5.63	6.37	(*)
Columbia	202.40	209.37	(*)	39.3	38.7	(*)	5.15	5.41	(*)
Greenville—Spartanburg	203.27	215.57	(*)	40.9	39.7	(*)	4.97	5.43	(*)
SOUTH DAKOTA	232.12	269.42	266.09	41.6	41.9	41.0	5.58	6.43	6.49
Rapid City	179.68	206.26	201.74	35.3	34.9	33.4	5.09	5.91	6.04
Sioux Falls	320.17	386.88	376.29	46.2	48.3	45.5	6.93	8.01	8.27
TENNESSEE	220.80	(*)	(*)	40.0	(*)	(*)	5.52	(*)	(*)
Chattanooga	227.84	(*)	(*)	41.2	(*)	(*)	5.53	(*)	(*)
Knoxville	258.80	(*)	(*)	40.5	(*)	(*)	6.39	(*)	(*)
Memphis	252.72	(*)	(*)	40.5	(*)	(*)	6.24	(*)	(*)
Nashville—Davidson	237.77	(*)	(*)	40.3	(*)	(*)	5.90	(*)	(*)
TEXAS	265.60	288.86	291.10	41.5	40.8	41.0	6.40	7.08	7.10
Amarillo	258.49	280.70	285.19	40.9	40.8	40.8	6.32	6.88	6.99
Austin	205.32	227.28	235.06	40.9	41.1	41.9	5.02	5.53	5.61
Beaumont—Port Arthur—Orange	384.72	443.73	401.88	42.0	42.3	40.8	9.16	10.49	9.85
Corpus Christi	283.54	305.52	314.61	39.6	40.2	40.7	7.16	7.60	7.73
Dallas—Fort Worth	247.80	266.37	273.77	41.3	40.3	40.8	6.00	6.56	6.71
El Paso	188.60	212.93	208.01	40.3	40.1	39.1	4.68	5.31	5.32
Galveston—Texas City	402.36	406.69	(*)	42.0	39.6	(*)	9.58	10.27	(*)
Houston	331.25	357.79	358.69	43.3	42.9	42.6	7.65	8.34	8.42
Lubbock	208.38	218.56	220.18	42.7	40.4	40.4	4.88	5.41	5.45
San Antonio	188.00	208.90	217.88	40.0	40.8	41.9	4.70	5.12	5.20
Waco	227.88	236.84	239.32	39.7	38.7	38.6	5.74	6.12	6.20
Wichita Falls	234.00	250.49	247.29	40.0	39.2	38.7	5.85	6.39	6.39
UTAH	240.40	269.43	276.90	38.9	38.6	39.5	6.18	6.98	7.01
Salt Lake City—Ogden	226.78	255.06	266.93	38.9	39.0	39.9	5.83	6.54	6.69
VERMONT	219.64	241.19	(*)	40.3	40.4	(*)	5.45	5.97	(*)
Burlington	241.26	265.01	(*)	41.1	41.8	(*)	5.87	6.34	(*)
Springfield	264.39	272.90	(*)	42.1	41.6	(*)	6.28	6.56	(*)
VIRGINIA	219.60	238.07	240.46	40.0	38.9	39.1	5.49	6.12	6.15
Bristol	203.66	200.51	209.17	37.3	37.2	38.1	5.46	5.39	5.49
Lynchburg	218.83	236.16	241.59	40.6	39.1	39.8	5.39	6.04	6.07
Norfolk—Virginia Beach—Portsmouth	266.70	257.81	255.20	42.2	39.3	40.0	6.32	6.56	6.38
Northern Virginia	249.86	272.80	271.55	40.3	40.0	39.7	6.20	6.82	6.84
Petersburg—Colonial Heights—Hopewell	274.80	303.28	300.40	40.0	39.8	40.0	6.87	7.62	7.51

See footnotes at end of table.

**ESTABLISHMENT
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		
	JUN. 1979	MAY 1980	JUN. 1980 ^P	JUN. 1979	MAY 1980	JUN. 1980 ^P	JUN. 1979	MAY 1980	JUN. 1980 ^P
VIRGINIA—Continued									
Richmond	\$271.62	\$314.81	\$312.05	40.3	39.4	39.6	\$6.74	\$7.99	\$7.88
Roanoke	199.87	223.57	230.75	39.5	39.5	40.2	5.06	5.66	5.74
WASHINGTON	330.17	(*)	(*)	39.4	(*)	(*)	8.38	(*)	(*)
Seattle—Everett	334.05	368.55	(*)	39.3	39.8	(*)	8.50	9.26	(*)
Spokane	289.54	310.70	(*)	38.4	36.9	(*)	7.54	8.42	(*)
Tacoma	322.87	(*)	(*)	38.9	(*)	(*)	8.30	(*)	(*)
WEST VIRGINIA	291.00	317.58	(*)	39.7	39.5	(*)	7.33	8.04	(*)
Charleston	331.08	357.00	(*)	42.5	42.0	(*)	7.79	8.50	(*)
Huntington—Ashland	321.90	359.45	(*)	39.4	39.5	(*)	8.17	9.10	(*)
Parkersburg—Marietta	315.33	330.47	(*)	42.1	40.9	(*)	7.49	8.08	(*)
Wheeling	304.21	333.76	(*)	40.4	38.9	(*)	7.53	8.58	(*)
WISCONSIN	293.54	310.95	317.31	40.9	39.6	39.8	7.18	7.85	7.96
Appleton—Oshkosh	294.33	306.03	307.10	42.1	40.4	40.4	7.00	7.58	7.60
Eau Claire	256.11	279.31	315.58	40.6	41.0	40.6	6.31	6.81	7.78
Green Bay	303.13	324.67	331.87	41.7	41.6	41.2	7.27	7.81	8.05
Janesville—Beloit	305.32	287.22	312.69	39.6	39.4	39.4	7.71	7.29	7.93
Kenosha	358.24	335.87	382.77	41.8	40.2	41.0	8.57	8.36	9.34
La Crosse	231.34	286.27	287.60	39.6	41.0	40.9	5.84	6.98	7.03
Madison	284.75	308.77	317.17	39.5	38.1	38.4	7.20	8.10	8.26
Milwaukee	320.95	344.64	349.03	40.9	39.9	40.1	7.85	8.64	8.71
Racine	315.47	339.76	344.68	41.5	39.8	39.4	7.61	8.55	8.75
WYOMING	250.95	288.21	291.12	37.4	39.0	39.5	6.71	7.39	7.37
Casper	324.00	333.32	296.40	40.4	39.4	32.5	8.02	8.46	9.12
VIRGIN ISLANDS	270.14	(*)	(*)	40.5	(*)	(*)	6.67	(*)	(*)

¹ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

² Subarea of New York—Northeastern New Jersey.

³ Subarea of Rochester Standard Metropolitan Statistical Area.

⁴ Area included in New York and Nassau-Suffolk combined SMSA's.

⁵ Subarea of New York Standard Metropolitan Statistical Area.

⁶ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

⁷ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area:

Lackawanna County.

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

⁹ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p = preliminary.

* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
LABOR TURNOVER**

D-1. Labor turnover rates in manufacturing, 1970 to date

(Per 100 employees)

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1970.....	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971.....	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972.....	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973.....	4.0	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974.....	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975.....	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976.....	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977.....	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.3	4.6	3.9	3.1	2.4
1978.....	4.1	3.8	3.2	3.8	4.0	4.7	4.9	4.4	5.4	4.9	4.3	3.3	2.4
1979.....	4.0	4.0	3.4	3.8	3.9	4.7	4.8	4.3	5.0	4.5	4.1	3.0	2.2
1980.....		3.8	3.3	3.5	3.1	3.4	P3.9						
New hires													
1970.....	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971.....	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972.....	3.3	2.6	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973.....	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974.....	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975.....	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976.....	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977.....	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	3.0	2.2	1.6
1978.....	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.2	3.9	3.5	2.6	1.7
1979.....	2.9	2.8	2.5	2.8	2.9	3.6	3.8	3.1	3.7	3.4	3.1	2.2	1.5
1980.....		2.4	2.2	2.3	2.1	2.1	P2.4						
Rescissions													
1970.....	1.0	1.4	1.0	1.2	1.0	1.0	0.9	1.1	1.1	0.8	0.7	0.7	0.7
1971.....	.9	1.2	1.3	1.1	.9	.8	.8	.9	1.0	.8	.6	.6	.6
1972.....	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.7	.6	.5	.5
1973.....	.7	.9	.7	.7	.7	.8	.7	.9	.9	.8	.7	.5	.5
1980.....		1.1	.9	.9	.8	1.0	P1.2						
Total separations													
1970.....	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971.....	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972.....	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973.....	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974.....	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975.....	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976.....	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977.....	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.9	3.8	3.4	3.4
1978.....	3.9	3.6	3.1	3.5	3.6	3.7	3.8	4.1	5.3	4.9	4.1	3.5	3.4
1979.....	4.0	3.8	3.2	3.6	3.7	3.8	3.9	4.3	5.7	4.7	4.2	3.8	3.5
1980.....		4.1	3.5	3.7	4.7	4.8	P4.2						
Quits													
1970.....	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971.....	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.6	2.8	2.9	2.0	1.5	1.2
1972.....	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973.....	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974.....	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975.....	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976.....	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977.....	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978.....	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.5	3.1	2.3	1.7	1.3
1979.....	2.0	1.8	1.6	1.9	2.0	2.1	2.1	2.0	3.3	2.7	2.1	1.6	1.1
1980.....		1.6	1.5	1.6	1.5	1.5	P1.4						
Layoffs													
1970.....	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971.....	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972.....	1.1	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973.....	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974.....	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975.....	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976.....	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977.....	1.1	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1	1.1	1.5
1978.....	.9	1.2	.9	.9	.8	.7	.7	1.1	.8	.8	.9	1.0	1.4
1979.....	1.1	1.1	.8	.8	.9	.7	.9	1.4	1.3	1.1	1.2	1.5	1.7
1980.....		1.6	1.2	1.3	2.3	2.5	P2.0						

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	
		May 1980	June 1980 ^P	May 1980	June 1980 ^P	May 1980	June 1980 ^P	May 1980	June 1980 ^P	May 1980	June 1980 ^P	May 1980	June 1980 ^P
-	MANUFACTURING	3.4	3.9	2.1	2.4	1.0	1.2	4.8	4.2	1.5	1.4	2.5	2.0
24, 25, 32-39	DURABLE GOODS	2.8	3.5	1.6	1.9	.8	1.2	5.0	4.3	1.2	1.1	2.9	2.4
20-23, 26-31	NONDURABLE GOODS	4.2	4.5	2.9	3.1	1.1	1.2	4.6	4.1	2.0	1.8	1.8	1.5
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	5.5	6.8	2.4	3.1	2.9	3.5	6.5	4.8	2.1	2.1	3.4	1.8
242	Sawmills and planing mills	5.0	-	1.8	-	3.1	-	6.2	-	1.9	-	3.5	-
2421	Sawmills and planing mills, general	5.4	-	1.8	-	3.5	-	6.0	-	1.7	-	3.5	-
243	Millwork, plywood, and structural members	5.0	-	1.3	-	3.1	-	7.3	-	1.8	-	4.5	-
2431	Millwork	3.2	-	1.4	-	1.8	-	7.1	-	1.4	-	5.0	-
244	Wooden containers	6.4	-	4.4	-	1.8	-	7.0	-	3.9	-	2.2	-
245	Wood buildings and mobile homes	7.4	-	4.3	-	3.1	-	9.0	-	3.9	-	3.8	-
2451	Mobile homes	9.4	-	5.7	-	2.7	-	10.2	-	4.9	-	3.9	-
249	Miscellaneous wood products	4.6	-	2.9	-	1.4	-	6.5	-	2.4	-	2.9	-
25	FURNITURE AND FIXTURES	3.1	3.2	2.2	2.0	.7	1.1	5.8	4.7	2.2	1.6	2.5	2.3
251	Household furniture	3.0	-	2.1	-	.6	-	6.4	-	2.4	-	2.9	-
2511	Wood household furniture	3.2	-	2.3	-	.6	-	5.6	-	2.9	-	1.5	-
2512	Upholstered household furniture	2.3	-	1.3	-	.3	-	6.1	-	1.9	-	3.4	-
2515	Mattresses and bedsprings	2.5	-	1.5	-	.8	-	7.5	-	2.2	-	4.1	-
252	Office furniture	2.4	-	1.8	-	.5	-	4.2	-	1.5	-	2.0	-
254	Partitions and fixtures	4.3	-	3.3	-	.9	-	5.3	-	2.4	-	1.8	-
32	STONE, CLAY, AND GLASS PRODUCTS	3.9	4.1	1.8	2.2	1.8	1.5	5.1	4.4	1.3	1.2	2.9	2.3
322	Glass and glassware, pressed or blown	2.7	-	1.2	-	1.1	-	4.0	-	.6	-	2.4	-
3221	Glass containers	2.8	-	1.5	-	1.1	-	3.6	-	.7	-	2.1	-
3229	Pressed and blown glass, nec	2.6	-	1.0	-	1.0	-	4.3	-	.6	-	2.7	-
323	Products of purchased glass	2.6	-	1.5	-	.9	-	6.6	-	1.4	-	4.4	-
324	Cement, hydraulic	2.9	-	1.5	-	1.2	-	2.6	-	.2	-	1.8	-
325	Structural clay products	4.7	-	1.9	-	2.6	-	6.9	-	2.0	-	3.8	-
326	Pottery and related products	2.6	-	1.6	-	.7	-	5.2	-	1.3	-	3.0	-
327	Concrete, gypsum, and plaster products	6.2	-	2.9	-	3.2	-	5.1	-	2.0	-	2.3	-
329	Misc. nonmetallic mineral products	2.5	-	1.1	-	1.2	-	5.7	-	.9	-	3.7	-
33	PRIMARY METAL INDUSTRIES	2.0	2.7	.8	.8	.9	1.6	6.4	5.7	.6	.5	5.1	4.4
331	Blast furnace and basic steel products	2.0	-	.4	-	1.2	-	7.0	-	.3	-	5.9	-
3312	Blast furnaces and steel mills	2.0	-	.3	-	1.3	-	7.0	-	.2	-	6.0	-
332	Iron and steel foundries	2.2	-	1.2	-	.8	-	7.4	-	.9	-	5.5	-
3321	Gray iron foundries	2.2	-	1.0	-	.9	-	8.0	-	1.0	-	6.0	-
3325	Steel foundries, nec	2.3	-	1.5	-	.6	-	5.4	-	.8	-	3.6	-
333	Primary nonferrous metals	2.3	-	1.7	-	.5	-	.7	-	.3	-	.1	-
335	Nonferrous rolling and drawing	1.3	-	.9	-	.3	-	4.6	-	.5	-	3.6	-
3351	Copper rolling and drawing .....	.8	-	.6	-	.2	-	4.5	-	.5	-	3.5	-
3353	Aluminum sheet, plate, and foil	1.1	-	.7	-	.3	-	2.3	-	.2	-	1.7	-
3357	Nonferrous wire drawing and insulating	1.1	-	.7	-	.2	-	6.9	-	.5	-	5.7	-
336	Nonferrous foundries	3.0	-	1.5	-	1.3	-	8.2	-	1.3	-	5.9	-
3361	Aluminum foundries	3.2	-	1.5	-	1.4	-	9.0	-	1.4	-	6.6	-
34	FABRICATED METAL PRODUCTS	3.2	3.8	1.9	2.1	1.1	1.4	5.8	4.9	1.3	1.2	3.5	2.8
341	Metal cans and shipping containers	4.3	-	1.0	-	3.1	-	4.7	-	.6	-	3.3	-
3411	Metal cans	4.7	-	.8	-	3.6	-	4.9	-	.5	-	3.5	-
342	Cutlery, hand tools, and hardware	2.1	-	1.1	-	.6	-	5.9	-	1.1	-	4.1	-
3423, 5	Hand and edge tools, and hand saws and blades	1.9	-	1.3	-	.6	-	5.4	-	1.2	-	3.7	-
3429	Hardware, nec	2.3	-	.9	-	.6	-	6.5	-	1.0	-	4.8	-
343	Plumbing and heating, except electric	2.2	-	1.3	-	.8	-	7.0	-	1.2	-	4.5	-
344	Fabricated structural metal products	3.8	-	2.7	-	1.0	-	4.5	-	1.6	-	2.1	-
3441	Fabricated structural metal	4.3	-	3.0	-	1.2	-	4.6	-	1.8	-	1.7	-
3442	Metal doors, sash, and trim	4.4	-	2.7	-	1.7	-	6.8	-	2.1	-	3.9	-
3443	Fabricated plate work (boiler shops)	2.4	-	1.7	-	.5	-	2.6	-	1.0	-	1.1	-
3444	Sheet metal work	5.1	-	3.6	-	1.4	-	5.0	-	1.8	-	2.3	-
345	Screw machine products, bolts, etc.	2.4	-	1.8	-	.4	-	6.4	-	1.3	-	4.1	-
3451	Screw machine products	2.6	-	2.3	-	.3	-	5.4	-	1.7	-	2.9	-
3452	Bolts, nuts, rivets, and washers	2.2	-	1.4	-	.6	-	7.2	-	1.0	-	5.3	-
346	Metal forgings and stampings	3.0	-	1.0	-	1.3	-	8.5	-	.8	-	6.7	-
3462	Iron and steel forgings	2.5	-	1.0	-	1.3	-	7.1	-	.5	-	5.9	-
3465	Automotive stampings	3.9	-	.1	-	2.2	-	12.3	-	.3	-	11.1	-
3469	Metal stampings, nec	2.6	-	1.7	-	.8	-	6.9	-	1.4	-	4.3	-
347	Metal services, nec	4.6	-	3.0	-	1.4	-	8.2	-	2.6	-	4.4	-
348	Ordnance and accessories, nec	2.2	-	1.1	-	.7	-	2.3	-	.6	-	1.2	-
349	Misc. fabricated metal products	2.9	-	1.8	-	.9	-	4.9	-	1.3	-	2.8	-
3494	Valves and pipe fittings	2.9	-	1.6	-	.9	-	3.2	-	1.0	-	1.4	-
3496	Misc. fabricated wire products	3.8	-	2.4	-	1.2	-	8.1	-	2.0	-	4.9	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

1972 84C Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		May 1980	June 1980 ^P	May 1980	June 1980 ^P	May 1980	June 1980 ^P	May 1980	June 1980 ^P	May 1980	June 1980 ^P	May 1980	June 1980 ^P
35	MACHINERY, EXCEPT ELECTRICAL	2.2	2.5	1.5	1.8	0.4	0.5	3.8	3.4	1.0	0.9	2.0	1.7
351	Engines and turbines	2.0	-	.4	-	.5	-	6.2	-	.5	-	4.0	-
3511	Turbines and turbine generator sets	1.6	-	.6	-	.2	-	1.6	-	.2	-	.1	-
3519	Internal combustion engines, nec	2.1	-	1.4	-	.6	-	8.1	-	.6	-	5.6	-
352	Farm and garden machinery	2.3	-	1.0	-	1.0	-	7.4	-	1.0	-	5.6	-
3523	Farm machinery and equipment	2.1	-	1.0	-	.8	-	6.4	-	1.0	-	4.6	-
353	Construction and related machinery	1.8	-	1.5	-	.2	-	3.6	-	.9	-	1.9	-
3531	Construction machinery	.8	-	.5	-	.2	-	4.0	-	.5	-	2.8	-
3533	Oil field machinery	3.8	-	3.7	-	(1)	-	2.4	-	1.6	-	.1	-
354	Metaworking machinery	2.3	-	1.7	-	.4	-	3.0	-	1.0	-	1.4	-
3541	Machine tools, metal cutting types	2.1	-	1.8	-	.1	-	1.6	-	.6	-	.5	-
3544	Special dies, tools, jigs, and fixtures	2.9	-	2.0	-	.7	-	3.9	-	1.2	-	1.9	-
3545	Machine tool accessories	2.3	-	1.8	-	.2	-	2.6	-	1.1	-	.7	-
355	Special industry machinery	2.1	-	1.7	-	.3	-	2.5	-	1.0	-	.8	-
3551	Food products machinery	2.0	-	1.6	-	.2	-	2.7	-	1.1	-	.9	-
3552	Textile machinery	2.4	-	2.0	-	.3	-	3.3	-	1.2	-	1.1	-
356	General industrial machinery	2.1	-	1.4	-	.4	-	3.3	-	.8	-	1.8	-
3561	Pumps and pumping equipment	1.8	-	1.4	-	.2	-	3.2	-	.8	-	1.8	-
3562	Ball and roller bearings	2.4	-	1.5	-	.4	-	4.2	-	.7	-	2.8	-
3564	Blowers and fans	2.2	-	1.7	-	.4	-	3.5	-	1.1	-	1.9	-
357	Office and computing machines	2.0	-	1.6	-	.1	-	1.8	-	1.0	-	.2	-
3573	Electronic computing equipment	2.0	-	1.8	-	.1	-	1.7	-	1.0	-	.2	-
358	Refrigeration and service machinery	2.1	-	1.3	-	.4	-	5.6	-	1.1	-	3.4	-
3585	Refrigeration and heating equipment	2.1	-	1.2	-	.4	-	6.8	-	.9	-	4.4	-
359	Misc. machinery, except electrical	2.9	-	2.4	-	.5	-	4.8	-	1.6	-	2.4	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	2.5	2.8	1.7	1.9	.4	.5	4.2	3.9	1.2	1.1	2.1	1.9
361	Electric distributing equipment	2.7	-	1.7	-	.3	-	4.8	-	1.2	-	2.5	-
3612	Transformers	2.1	-	1.1	-	.2	-	4.1	-	.9	-	2.2	-
3613	Switchgear and switchboard apparatus	3.1	-	2.2	-	.4	-	5.4	-	1.4	-	2.8	-
362	Electrical industrial apparatus	2.1	-	1.2	-	.5	-	5.5	-	.9	-	3.8	-
3621	Motors and generators	2.1	-	.9	-	.5	-	8.2	-	.8	-	6.4	-
3622	Industrial controls	2.6	-	1.6	-	.5	-	2.7	-	.8	-	.9	-
363	Household appliances	2.6	-	.8	-	1.0	-	6.0	-	.8	-	3.6	-
3632	Household refrigerators and freezers	4.2	-	.2	-	2.4	-	7.5	-	.4	-	4.7	-
3633	Household laundry equipment	1.4	-	.3	-	.3	-	8.2	-	.2	-	7.1	-
3634	Electric housewares and fans	3.1	-	2.0	-	.8	-	5.1	-	1.4	-	2.5	-
364	Electric lighting and wiring equipment	2.0	-	1.3	-	.4	-	5.1	-	1.1	-	3.0	-
3641	Electric lamps	1.6	-	.8	-	.3	-	3.1	-	.8	-	1.4	-
3643	Current-carrying wiring devices	1.9	-	1.4	-	.3	-	3.5	-	1.1	-	1.6	-
365	Radio and TV receiving equipment	2.8	-	1.3	-	.4	-	6.7	-	1.1	-	4.2	-
3651	Radio and TV receiving sets	3.0	-	1.2	-	.4	-	6.5	-	1.0	-	4.1	-
366	Communication equipment	2.1	-	1.6	-	.1	-	2.2	-	.9	-	.7	-
3661	Telephone and telegraph apparatus	.9	-	.6	-	.1	-	2.4	-	.5	-	1.5	-
3662	Radio and TV communication equipment	2.7	-	2.1	-	.1	-	2.1	-	1.1	-	.3	-
367	Electronic components and accessories	3.2	-	2.5	-	.4	-	3.8	-	1.8	-	1.2	-
3671-3	Electronic tubes	1.5	-	1.1	-	.1	-	2.0	-	.6	-	.7	-
3674	Semiconductors and related devices	3.1	-	2.7	-	.2	-	2.7	-	1.4	-	.5	-
3679	Electronic components, nec	3.2	-	2.5	-	.4	-	4.5	-	2.1	-	1.4	-
369	Misc. electrical equipment and supplies	2.2	-	.9	-	1.0	-	5.1	-	.8	-	3.5	-
3694	Engine electrical equipment	1.4	-	.4	-	.7	-	6.7	-	.6	-	5.3	-
37	TRANSPORTATION EQUIPMENT	2.6	-	1.1	-	.8	-	5.6	-	.8	-	4.0	-
371	Motor vehicles and equipment	2.7	-	.4	-	1.2	-	9.5	-	.6	-	7.8	-
3711	Motor vehicles and car bodies	2.6	-	.3	-	.7	-	6.6	-	.5	-	5.4	-
3713	Truck and bus bodies	2.6	-	1.1	-	1.4	-	9.1	-	1.2	-	7.4	-
3714	Motor vehicle parts and accessories	2.8	-	.3	-	1.5	-	11.8	-	.5	-	9.8	-
3715,6	Truck trailers and motor homes	3.4	-	.7	-	2.7	-	14.8	-	1.0	-	12.9	-
372	Aircraft and parts	1.8	-	1.4	-	.1	-	1.8	-	.8	-	.4	-
3721	Aircraft	1.3	-	1.0	-	.1	-	1.6	-	.7	-	.6	-
3724	Aircraft engines and engine parts	1.5	-	1.1	-	.1	-	1.2	-	.5	-	.1	-
3728	Aircraft equipment, nec	3.2	-	2.8	-	.2	-	2.8	-	1.4	-	.4	-
373	Ship and boat building and repairing	4.8	-	2.8	-	1.9	-	6.7	-	1.8	-	3.8	-
3731	Ship building and repairing	4.9	-	2.8	-	2.0	-	5.4	-	1.6	-	2.9	-
3732	Boat building and repairing	4.5	-	2.8	-	1.6	-	12.0	-	2.6	-	7.7	-
374	Railroad equipment	2.7	-	.7	-	1.3	-	3.6	-	.3	-	2.1	-
376	Guided missiles, space vehicles, parts	1.9	-	1.5	-	.2	-	1.0	-	.6	-	.1	-
3761	Guided missiles and space vehicles	1.8	-	1.6	-	.1	-	1.0	-	.6	-	.1	-
379	Miscellaneous transportation equipment	4.4	-	1.7	-	2.1	-	8.5	-	1.6	-	5.6	-
38	INSTRUMENTS AND RELATED PRODUCTS	2.6	3.4	2.2	2.9	.2	.3	2.8	2.8	1.2	1.2	.9	.9
381	Engineering and scientific instruments	2.6	-	2.4	-	.1	-	2.3	-	1.1	-	.7	-
382	Measuring and controlling devices	2.2	-	1.8	-	.1	-	3.0	-	1.1	-	1.3	-
3822	Environmental controls	1.6	-	1.1	-	.1	-	6.1	-	.9	-	4.3	-
3823	Process control instruments	2.9	-	2.5	-	.2	-	2.5	-	1.2	-	.6	-
3825	Instruments to measure electricity	2.1	-	1.7	-	(1)	-	1.9	-	1.1	-	.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	
		May 1980	June _P 1980	May 1980	June _P 1980	May 1980	June _P 1980	May 1980	June _P 1980	May 1980	June _P 1980	May 1980	June _P 1980
	INSTRUMENTS AND RELATED PRODUCTS—Cont'd												
383	Optical instruments and lenses	3.2	-	2.7	-	0.1	-	1.9	-	1.3	-	0.1	-
384	Medical instruments and supplies	3.4	-	3.0	-	.2	-	3.6	-	2.0	-	.8	-
3841	Surgical and medical instruments	4.2	-	3.8	-	(1)	-	4.1	-	2.3	-	.9	-
3842	Surgical appliances and supplies	3.0	-	2.4	-	.4	-	3.1	-	1.7	-	.6	-
385	Ophthalmic goods	4.1	-	3.2	-	.3	-	3.7	-	1.7	-	.7	-
386	Photographic equipment and supplies	1.9	-	1.7	-	.1	-	1.4	-	.5	-	.3	-
387	Watches, clocks, and watchcases	1.9	-	.9	-	1.0	-	5.4	-	1.5	-	3.2	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	3.9	5.3	2.6	3.0	1.2	2.1	6.0	5.1	1.9	1.7	3.1	2.4
391	Jewelry, silverware, and plated ware	2.6	-	1.7	-	.9	-	4.9	-	1.3	-	2.7	-
393	Musical instruments	2.5	-	.9	-	1.2	-	5.3	-	1.7	-	2.8	-
394	Toys and sporting goods	5.7	-	3.8	-	1.5	-	7.7	-	2.3	-	4.1	-
3942,4	Dolls, games, toys, and children's vehicles	7.4	-	5.4	-	1.6	-	6.1	-	2.8	-	2.1	-
3949	Sporting and athletic goods, nec	4.2	-	2.3	-	1.4	-	9.1	-	1.9	-	6.0	-
395	Pens, pencils, office and art supplies	3.0	-	2.5	-	.4	-	3.5	-	1.4	-	1.1	-
396	Costume jewelry and notions	4.1	-	2.6	-	1.4	-	6.1	-	2.8	-	2.5	-
399	Miscellaneous manufactures	3.3	-	2.1	-	1.1	-	5.7	-	1.5	-	3.3	-
	NONDURABLE GOODS												
20	FOOD AND KINDRED PRODUCTS	6.6	7.9	3.9	5.0	2.3	2.7	5.6	4.9	2.4	2.3	2.4	1.6
201	Meat products	7.9	-	5.5	-	1.9	-	6.1	-	3.8	-	1.2	-
2011	Meat packing plants	5.7	-	3.3	-	2.0	-	3.6	-	1.7	-	1.2	-
2013	Sausages and other prepared meats	5.3	-	3.2	-	2.0	-	4.2	-	1.7	-	1.6	-
2016	Poultry dressing plants	12.5	-	10.0	-	1.9	-	10.7	-	8.2	-	1.0	-
202	Dairy products	4.4	-	3.3	-	.9	-	3.0	-	1.5	-	.8	-
203	Preserved fruits and vegetables	10.7	-	4.9	-	5.4	-	11.0	-	3.1	-	6.8	-
204	Grain mill products	4.4	-	2.3	-	1.9	-	4.1	-	1.7	-	1.7	-
205	Bakery products	3.9	-	3.2	-	.6	-	3.2	-	1.5	-	1.0	-
2051	Bread, cake, and related products	4.1	-	3.5	-	.4	-	2.7	-	1.7	-	.5	-
2052	Cookies and crackers	3.3	-	1.6	-	1.5	-	5.0	-	.9	-	3.4	-
206	Sugar and confectionery products	6.4	-	2.2	-	4.0	-	6.5	-	1.4	-	4.3	-
207	Fats and oils	3.0	-	2.2	-	.6	-	3.3	-	1.6	-	.8	-
208	Beverages	5.8	-	3.5	-	2.0	-	4.3	-	1.7	-	1.8	-
2082	Malt beverages	6.3	-	1.8	-	4.2	-	3.9	-	.3	-	3.1	-
2086	Bottled and canned soft drinks	5.6	-	4.7	-	.4	-	3.7	-	2.4	-	.4	-
209	Misc. foods and kindred products	6.4	-	4.3	-	3.7	-	7.2	-	2.6	-	3.9	-
21	TOBACCO MANUFACTURES	3.8	-	.9	-	1.1	-	1.9	-	.3	-	.7	-
211	Cigarettes	3.2	-	.7	-	.3	-	1.1	-	.1	-	.1	-
22	TEXTILE MILL PRODUCTS	3.8	3.5	3.0	2.7	.5	.5	4.8	4.1	2.4	2.1	1.3	1.0
221	Weaving mills, cotton	3.9	-	3.1	-	.2	-	3.8	-	2.4	-	.2	-
222	Weaving mills, synthetics	3.5	-	2.8	-	.3	-	4.1	-	2.3	-	.8	-
223	Weaving and finishing mills, wool	3.5	-	2.4	-	.9	-	4.6	-	1.9	-	1.5	-
224	Narrow fabric mills	3.4	-	2.2	-	1.1	-	5.5	-	1.9	-	2.8	-
225	Knitting mills	4.3	-	3.4	-	.8	-	4.7	-	2.5	-	1.3	-
2251	Women's hosiery, except socks	3.2	-	2.8	-	.3	-	4.8	-	2.9	-	1.1	-
2252	Hosiery, nec	4.1	-	3.7	-	.3	-	4.4	-	2.8	-	.8	-
2253	Knit outerwear mills	5.5	-	3.9	-	1.3	-	5.0	-	2.6	-	1.2	-
2254	Knit underwear mills	3.4	-	3.0	-	.3	-	3.2	-	2.1	-	.4	-
2257	Circular knit fabric mills	4.1	-	3.4	-	.5	-	5.6	-	2.3	-	2.1	-
226	Textile finishing, except wool	3.7	-	2.9	-	.6	-	4.4	-	2.1	-	1.2	-
227	Floor covering mills	1.9	-	1.1	-	.6	-	4.6	-	1.5	-	2.2	-
228	Yarn and thread mills	4.6	-	4.0	-	.4	-	6.4	-	3.4	-	1.4	-
229	Miscellaneous textile goods	2.5	-	1.7	-	.6	-	5.4	-	1.5	-	2.9	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	5.6	4.9	3.5	3.2	1.8	1.4	6.1	5.0	3.0	2.5	2.3	1.7
231	Men's and boys' suits and coats	5.4	-	2.3	-	2.7	-	2.8	-	1.5	-	.6	-
232	Men's and boys' furnishings	5.4	-	4.3	-	1.0	-	5.3	-	3.7	-	.8	-
2321	Men's and boys' shirts and nightwear	4.9	-	3.7	-	.9	-	4.9	-	3.3	-	.8	-
2327	Men's and boys' separate trousers	4.5	-	3.7	-	.7	-	4.6	-	3.6	-	.4	-
2328	Men's and boys' work clothing	6.6	-	5.3	-	1.1	-	6.5	-	4.7	-	1.1	-
233	Women's and misses' outerwear	5.7	-	3.1	-	2.3	-	7.1	-	2.8	-	3.4	-
234	Women's and children's undergarments	4.0	-	3.0	-	.8	-	5.4	-	2.8	-	2.0	-
2341	Women's and children's underwear	4.1	-	3.1	-	.9	-	5.7	-	3.0	-	2.0	-
2342	Brassieres and allied garments	3.6	-	2.9	-	.4	-	4.0	-	1.7	-	1.7	-
236	Children's outerwear	8.4	-	5.2	-	2.9	-	6.4	-	3.4	-	2.1	-
238	Misc. apparel and accessories	6.8	-	3.4	-	3.2	-	7.0	-	3.2	-	2.9	-
239	Misc. fabricated textile products	5.1	-	3.1	-	1.8	-	7.0	-	2.4	-	3.4	-
26	PAPER AND ALLIED PRODUCTS	2.7	3.0	1.7	1.8	.8	.9	3.0	3.3	.9	.8	1.4	1.7
261,2,6	Paper and pulp mills	2.1	-	1.5	-	.3	-	1.5	-	.4	-	.7	-
262	Paper mills, except building paper	2.1	-	1.6	-	.3	-	1.3	-	.3	-	.5	-

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	
		May 1980	June 1980P	May 1980	June 1980P	May 1980	June 1980P	May 1980	June 1980P	May 1980	June 1980P	May 1980	June 1980P
PAPER AND ALLIED PRODUCTS—Continued													
263	Paperboard mills	3.0	-	1.8	-	1.0	-	1.7	-	0.5	-	0.8	-
264	Misc. converted paper products	3.0	-	1.9	-	1.0	-	4.2	-	1.2	-	2.0	-
265	Paperboard containers and boxes	2.6	-	1.6	-	1.0	-	3.6	-	1.2	-	1.6	-
2651	Folding paperboard boxes	3.1	-	2.0	-	1.0	-	3.7	-	1.1	-	1.4	-
2653	Corrugated and solid fiber boxes	2.0	-	1.2	-	.7	-	3.2	-	1.0	-	1.5	-
PRINTING AND PUBLISHING													
27	Printing and publishing	3.2	3.5	2.6	2.8	.5	0.6	3.4	3.3	1.9	1.8	.8	0.9
271	Newspapers	3.6	-	3.3	-	.1	-	3.4	-	2.6	-	.2	-
272	Periodicals	2.1	-	2.0	-	.1	-	2.3	-	1.5	-	.2	-
273	Books	2.7	-	2.1	-	.5	-	4.1	-	1.9	-	1.4	-
274	Miscellaneous publishing	3.2	-	3.0	-	.3	-	3.2	-	1.6	-	.4	-
275	Commercial printing	3.1	-	2.2	-	.7	-	3.5	-	1.5	-	1.4	-
2751	Commercial printing, letterpress	2.9	-	2.1	-	.7	-	3.5	-	1.6	-	1.3	-
2752	Commercial printing, lithographic	3.3	-	2.4	-	.7	-	3.5	-	1.4	-	1.4	-
278	Blankbooks and bookbinding	3.3	-	2.5	-	.8	-	3.7	-	1.8	-	1.1	-
CHEMICALS AND ALLIED PRODUCTS													
28	Chemicals and allied products	2.0	2.2	1.5	1.7	.3	.3	2.0	2.0	.7	.6	.8	.8
281	Industrial inorganic chemicals	1.8	-	1.5	-	.1	-	1.5	-	.5	-	.6	-
2819	Industrial inorganic chemicals, nec	2.0	-	1.6	-	.1	-	1.3	-	.5	-	.5	-
282	Plastics materials and synthetics	1.2	-	.9	-	.2	-	2.2	-	.4	-	1.3	-
2821	Plastics materials and resins	1.9	-	1.4	-	.2	-	2.0	-	.6	-	.8	-
2824	Organic fibers, noncellulosic	.4	-	.3	-	(1)	-	2.3	-	.3	-	1.7	-
283	Drugs	2.1	-	1.6	-	.3	-	1.4	-	.6	-	.3	-
2834	Pharmaceutical preparations	2.0	-	1.5	-	.3	-	1.5	-	.6	-	.3	-
284	Soap, cleaners, and toilet goods	2.6	-	1.8	-	.6	-	2.5	-	1.0	-	.9	-
2841	Soap and other detergents	1.9	-	1.1	-	.7	-	1.9	-	.5	-	.8	-
2844	Toilet preparations	3.2	-	2.1	-	.8	-	2.6	-	1.1	-	.9	-
285	Paints and allied products	2.8	-	1.7	-	.4	-	3.3	-	1.0	-	1.4	-
286	Industrial organic chemicals	1.5	-	1.1	-	.1	-	1.4	-	.5	-	.4	-
287	Agricultural chemicals	3.0	-	2.4	-	.4	-	3.3	-	1.3	-	1.2	-
289	Miscellaneous chemical products	2.5	-	1.8	-	.6	-	2.5	-	.9	-	.9	-
PETROLEUM AND COAL PRODUCTS													
29	Petroleum and coal products	3.3	3.7	2.6	2.9	.5	.7	2.3	1.8	.6	.6	1.1	.8
291	Petroleum refining	2.8	-	2.5	-	.2	-	1.2	-	.3	-	.4	-
295	Paving and roofing materials	6.5	-	3.9	-	2.4	-	8.3	-	2.1	-	5.1	-
RUBBER AND MISC. PLASTICS PRODUCTS													
30	Rubber and misc. plastics products	3.3	4.0	2.0	2.1	.9	1.5	6.7	6.0	1.8	1.7	4.0	3.3
301	Tires and inner tubes	1.3	-	.3	-	.6	-	5.5	-	.3	-	4.5	-
302	Rubber and plastics footwear	7.8	-	6.7	-	.9	-	7.4	-	4.1	-	1.4	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting	1.4	-	.7	-	.6	-	10.2	-	1.0	-	8.4	-
306	Fabricated rubber products, nec	2.4	-	1.1	-	.9	-	6.9	-	1.1	-	4.7	-
307	Miscellaneous plastics products	3.7	-	2.5	-	1.0	-	6.8	-	2.2	-	3.6	-
LEATHER AND LEATHER PRODUCTS													
31	Leather and leather products	7.0	5.7	5.4	4.3	1.4	1.0	7.2	6.1	3.5	2.8	2.7	2.3
311	Leather tanning and finishing	6.3	-	3.9	-	2.3	-	4.9	-	1.7	-	2.1	-
314	Footwear, except rubber	7.2	-	5.9	-	.9	-	6.1	-	3.9	-	1.1	-
3143	Men's footwear, except athletic	6.1	-	5.3	-	.4	-	5.8	-	3.7	-	.9	-
3144	Women's footwear, except athletic	7.9	-	6.0	-	1.6	-	5.9	-	3.5	-	1.2	-
NONMANUFACTURING:													
-	MINING	5.3	6.2	4.2	5.2	.8	.7	4.5	4.4	2.6	2.6	.9	.9
METAL MINING													
10	Metal mining	3.5	4.3	2.8	2.9	.3	.3	2.4	4.4	1.3	.8	.4	2.0
101	Iron ores	2.1	-	.3	-	1.1	-	2.1	-	.4	-	.6	-
102	Copper ores	3.0	-	2.7	-	.1	-	.8	-	.5	-	(1)	-
BITUMINOUS COAL AND LIGNITE MINING													
12	Bituminous coal and lignite mining	1.6	1.5	.9	.9	.5	.4	3.3	2.8	.5	.4	2.3	1.9
OIL AND GAS EXTRACTION													
13	Oil and gas extraction	7.8	9.3	6.6	8.2	.9	.7	5.9	5.5	4.2	4.3	.2	.3
131,2	Crude petroleum, natural gas, and natural gas liquids	3.5	-	2.9	-	.2	-	1.4	-	.9	-	.1	-
138	Oil and gas field services	10.7	-	9.0	-	1.3	-	8.8	-	6.4	-	.2	-
NONMETALLIC MINERALS, EXCEPT FUELS													
14	Nonmetallic minerals, except fuels	3.6	3.3	1.9	2.1	1.6	1.1	2.9	3.0	1.1	1.3	1.2	1.0
142	Crushed and broken stone	3.9	-	1.9	-	1.8	-	2.9	-	.9	-	1.4	-
144	Sand and gravel	5.7	-	2.5	-	3.1	-	4.5	-	1.5	-	2.3	-
COMMUNICATION:													
481	Telephone communication	1.3	-	1.2	-	(1)	-	.8	-	.4	-	.1	-

¹ Less than 0.05.

P=preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED LABOR TURNOVER

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

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions												
1970.....	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971.....	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972.....	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973.....	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974.....	4.7	4.6	4.5	4.6	4.5	4.3	4.3	4.1	4.0	3.8	3.3	3.1
1975.....	3.0	3.2	3.2	3.6	3.7	3.8	4.0	4.0	3.9	3.8	3.8	3.8
1976.....	4.2	4.1	4.2	4.0	4.0	3.8	3.9	3.8	3.7	3.7	3.8	3.9
1977.....	4.0	4.4	4.0	4.0	4.0	4.0	4.0	3.9	3.9	4.0	4.1	4.4
1978.....	4.1	3.9	4.0	4.2	4.0	4.0	4.0	4.1	4.2	4.3	4.3	4.4
1979.....	4.2	4.1	4.0	4.0	4.0	4.0	3.9	3.9	3.9	4.1	4.0	3.9
1980.....	3.9	3.9	3.6	3.0	3.0	P3.3						
New hires												
1970.....	3.3	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971.....	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972.....	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973.....	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974.....	3.8	3.7	3.6	3.5	3.5	3.3	3.3	3.1	3.0	2.7	2.3	1.9
1975.....	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.4	2.3	2.4	2.5
1976.....	2.6	2.7	2.9	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.5	2.6
1977.....	2.7	2.8	2.8	2.9	3.0	2.8	2.8	2.8	2.8	2.9	2.9	3.2
1978.....	3.0	2.9	3.0	3.1	3.0	3.0	3.0	3.1	3.2	3.3	3.4	3.4
1979.....	3.2	3.2	3.1	3.0	3.0	3.0	2.8	2.8	2.8	2.9	2.9	2.9
1980.....	2.8	2.8	2.5	2.1	1.8	P1.8						
Total separations												
1970.....	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971.....	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972.....	4.2	4.1	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973.....	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974.....	5.1	5.0	4.9	4.7	4.6	4.5	4.5	4.8	4.4	4.8	5.2	4.9
1975.....	5.2	5.1	4.6	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.8	3.5
1976.....	3.6	3.6	3.8	3.9	3.7	3.9	3.9	4.0	3.9	3.8	3.6	3.6
1977.....	3.9	4.1	3.8	3.7	3.8	3.7	3.9	3.9	3.9	3.7	3.8	3.9
1978.....	3.8	3.8	3.8	4.0	3.9	3.9	3.9	3.8	3.8	4.0	4.0	4.1
1979.....	4.0	4.0	3.9	4.1	4.0	4.1	3.9	4.3	3.9	4.0	4.1	4.0
1980.....	4.1	4.0	4.3	5.3	5.7	P4.8						
Quits												
1970.....	2.4	2.5	2.3	2.3	2.1	2.2	2.1	2.0	2.0	1.9	1.8	1.9
1971.....	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972.....	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.6
1973.....	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974.....	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.2	2.0	1.8	1.7
1975.....	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976.....	1.6	1.7	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.6	1.5	1.6
1977.....	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9	1.9	1.9	2.0
1978.....	1.9	1.9	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2
1979.....	2.2	2.2	2.1	2.1	2.0	2.0	1.9	2.0	1.9	2.0	2.0	1.9
1980.....	1.9	1.9	1.9	1.5	1.4	P1.4						
Layoffs												
1970.....	1.5	1.7	1.8	1.9	1.9	1.9	1.5	1.9	1.9	2.2	2.0	1.7
1971.....	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972.....	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973.....	.9	.8	.9	.8	.9	.9	.9	1.0	.9	.8	1.0	1.1
1974.....	1.4	1.3	1.2	1.1	1.1	1.1	1.1	1.4	1.3	1.8	2.5	2.5
1975.....	2.9	3.0	2.7	2.6	2.5	2.2	1.7	1.6	1.7	1.5	1.5	1.3
1976.....	1.2	1.0	1.2	1.3	1.2	1.3	1.3	1.4	1.4	1.4	1.3	1.2
1977.....	1.3	1.5	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.0	1.0	1.0
1978.....	1.0	1.0	1.0	1.0	1.0	.9	.9	.9	.8	.9	.9	1.0
1979.....	.9	.9	.9	1.1	1.0	1.0	1.2	1.1	1.4	1.2	1.3	1.2
1980.....	1.3	1.3	1.5	2.9	3.5	P2.6						

p-preliminary.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P
ALABAMA:												
Birmingham	2.0	2.0	1.2	1.1	0.5	0.7	3.5	5.9	0.8	0.7	1.9	3.2
Mobile	5.4	5.2	3.7	1.9	1.7	2.8	4.9	7.5	1.7	1.0	1.8	5.5
ALASKA	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
ARIZONA	3.8	3.9	3.2	3.3	.5	.6	3.7	3.9	2.1	2.2	.8	.7
Phoenix	3.7	3.7	3.2	3.2	.4	.5	3.7	3.9	2.0	2.2	.8	.7
ARKANSAS	4.0	4.5	3.0	3.1	.6	1.0	6.3	6.6	2.6	2.6	2.7	2.9
Fort Smith	3.4	3.5	1.8	1.6	.7	1.2	6.7	4.3	1.7	1.6	3.8	1.1
Little Rock—North Little Rock	3.0	2.8	2.3	2.2	.5	.5	4.4	5.3	1.9	1.8	1.7	2.4
Pine Bluff	2.3	3.9	2.0	2.8	.2	.5	4.1	4.8	2.1	1.5	1.1	2.6
CALIFORNIA	3.7	3.9	2.6	2.6	.8	1.1	4.8	4.8	1.7	1.7	2.1	2.2
COLORADO	3.0	3.1	2.6	2.8	.3	.3	4.2	3.5	2.4	2.2	1.1	.7
Denver—Boulder	3.3	3.0	2.9	2.7	.2	.3	3.8	3.5	2.5	2.1	.6	.8
CONNECTICUT	2.6	3.6	1.8	2.7	.6	.8	3.9	3.3	1.4	1.6	1.8	1.0
Hartford	2.5	2.8	2.1	2.4	.2	.1	1.9	2.5	1.1	1.2	.2	.5
DELAWARE	7.6	2.2	1.1	1.2	6.1	.5	7.7	3.4	1.2	1.1	5.9	1.3
Wilmington	7.8	1.7	.8	.8	6.7	.4	7.5	2.6	.6	.7	6.4	1.0
FLORIDA	4.6	4.1	3.9	3.5	.6	.4	6.3	5.6	3.0	2.9	2.1	1.5
Fort Lauderdale—Hollywood	6.7	6.2	6.4	5.4	.2	.7	8.2	6.1	4.8	3.7	2.0	.8
Jacksonville	4.7	3.7	2.8	2.4	1.9	1.3	4.0	5.2	1.8	1.9	1.1	2.4
Miami	4.0	4.4	3.6	3.9	.4	.4	5.2	5.4	2.5	2.9	2.0	1.3
Orlando	3.7	3.0	3.4	2.6	.2	.2	4.3	6.7	2.5	3.0	.9	2.6
Pensacola	2.5	.9	2.3	.7	.2	.1	1.5	2.2	1.0	.8	.1	.6
Tampa—St. Petersburg	4.4	3.5	3.5	3.2	.8	.3	5.5	4.5	3.2	3.2	1.2	.6
West Palm Beach—Boca Raton	4.5	3.7	3.8	2.9	.6	.6	6.9	4.3	2.8	2.7	2.8	.8
GEORGIA	3.4	3.2	2.7	2.4	.4	.5	3.9	3.9	2.2	2.1	.7	1.0
Atlanta	2.8	3.6	2.2	2.6	.3	.9	3.0	3.1	1.5	1.6	.7	.8
HAWAII ²	2.4	3.0	1.4	2.3	.9	.6	3.7	4.2	1.4	1.6	1.6	2.0
IDAHO ³	6.1	9.8	1.7	2.0	3.9	7.2	15.8	5.8	1.4	1.5	12.5	3.2
ILLINOIS:												
Chicago SMSA	2.3	2.5	1.6	1.6	.4	.5	3.5	3.7	1.2	1.0	1.3	1.6
Davenport—Rock Island—Moline	1.3	1.4	.7	.7	.4	.5	3.0	3.9	.6	.5	1.8	2.9
Decatur	1.8	1.9	1.0	.9	.5	.7	4.3	2.6	.5	.2	2.7	1.8
Peoria .....	.8	1.4	.4	.4	.3	.7	3.4	2.4	.5	.3	2.5	1.8
Rockford	1.7	1.8	1.4	1.4	.2	.4	3.0	4.9	1.0	.7	1.4	3.5
INDIANA ⁴	2.1	2.7	.8	1.0	.9	1.1	4.7	6.4	.7	.6	3.1	4.8
Indianapolis ⁵	2.4	2.5	1.3	1.5	.5	.5	3.8	4.8	.9	.8	1.8	2.9
IOWA	2.0	2.9	1.1	1.4	.7	1.2	4.3	6.7	.9	.9	2.8	5.0
Cedar Rapids	1.7	2.1	1.0	.8	.5	.7	2.8	4.8	.8	.8	1.6	3.7
Des Moines	1.9	2.4	.8	1.1	.4	.7	7.1	16.6	.9	1.3	4.6	14.5
KANSAS	3.1	6.5	2.4	2.7	.6	3.7	5.4	8.3	2.2	2.3	2.1	5.0
Topeka	5.1	2.3	2.5	1.6	2.6	.7	5.4	6.6	1.6	1.6	2.7	3.9
Wichita	2.6	2.8	2.2	2.4	.2	.3	5.1	5.8	2.1	2.8	1.9	2.2
KENTUCKY	2.8	3.2	1.3	1.3	1.1	1.4	5.0	5.3	.9	.9	3.2	3.5
Lexington—Fayette	1.5	2.0	.9	.6	.3	.7	3.2	4.5	.8	.7	1.8	3.1
Louisville	1.9	2.1	.6	.7	.9	.5	4.0	2.9	.4	.5	2.5	1.2
LOUISIANA:												
New Orleans	4.0	3.9	3.4	3.3	.3	.4	4.4	4.5	2.3	2.5	.8	.3
MAINE	4.6	5.1	3.6	3.8	.8	1.1	5.4	4.7	2.5	2.4	2.0	1.4
Portland	3.3	4.0	2.8	3.2	.2	.4	4.1	3.4	2.3	2.1	.8	.3
MARYLAND	2.9	2.6	1.7	1.5	1.0	.9	3.2	3.7	1.0	1.0	1.5	2.0
Baltimore	2.6	2.2	1.4	1.2	1.0	.8	3.2	3.3	.8	.8	1.6	1.8

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	
	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P
MASSACHUSETTS	3.2	3.3	2.4	2.4	0.5	0.6	3.7	4.0	1.6	1.6	1.2	1.4
Boston	3.0	2.8	2.3	2.2	.5	.4	2.9	3.2	1.3	1.2	.7	1.0
MICHIGAN	2.5	2.5	1.5	.6	.7	.9	3.0	6.3	1.0	.5	1.3	5.1
Detroit	2.3	2.6	1.4	.5	.6	.6	2.4	6.5	.9	.5	.8	5.2
Flint	1.6	1.7	1.3	.1	.1	.4	1.4	9.4	.4	.2	.1	8.3
Grand Rapids	3.2	2.4	2.2	.8	.7	1.2	3.8	4.6	1.6	.6	1.3	3.5
Lansing—East Lansing	1.4	.7	1.0	(^b)	.3	.6	1.2	3.6	.5	.8	.1	2.6
MINNESOTA	2.6	2.9	1.9	1.8	.5	.9	4.3	4.3	1.6	1.6	2.1	2.0
Minneapolis—St. Paul	2.4	2.4	1.9	1.9	.3	.3	3.5	3.6	1.5	1.6	1.3	1.3
MISSISSIPPI:												
Jackson	3.2	4.4	2.6	2.2	.5	2.2	3.1	9.4	1.9	1.7	.3	6.8
MISSOURI	2.7	3.0	1.8	2.0	.7	.8	4.5	4.4	1.4	1.3	2.4	2.5
Kansas City	2.6	5.7	2.0	1.7	.5	3.8	5.7	8.1	1.4	1.2	3.3	6.1
St. Louis	2.2	2.5	1.3	1.3	.8	1.1	4.1	3.5	.8	.8	2.7	2.0
MONTANA	1.6	12.5	.9	1.5	.6	10.7	19.7	2.5	.8	1.4	18.6	.6
NEBRASKA	2.6	3.5	2.2	2.4	.4	.8	4.4	4.4	2.0	1.7	1.6	2.0
NEVADA	4.3	4.8	4.0	3.2	.2	1.5	6.3	9.1	3.7	2.9	.9	3.9
NEW HAMPSHIRE	4.6	5.0	3.7	3.6	.7	1.1	5.5	4.9	3.0	2.8	1.6	1.3
NEW JERSEY:												
Camden	2.1	2.6	1.3	1.5	.7	.8	2.7	3.6	.6	.9	1.4	2.0
Hackensack	2.9	3.6	2.4	2.6	.3	.8	5.6	4.6	1.7	1.7	3.0	2.0
Jersey City	3.8	2.8	1.8	1.7	1.8	1.0	3.7	4.0	1.0	.7	1.7	2.6
New Brunswick—Perth Amboy—Sayreville	2.9	3.0	1.7	1.7	.3	.9	3.6	3.6	1.2	1.1	1.7	1.8
Newark	2.4	2.8	1.8	1.9	.4	.6	4.5	4.0	1.2	1.2	2.3	1.9
Paterson—Clifton—Passaic	3.0	3.7	2.0	2.2	.8	1.3	3.9	5.3	1.2	1.4	1.9	3.1
Trenton	2.8	4.2	1.7	1.2	.9	2.7	5.6	7.2	.7	.9	4.1	5.5
NEW YORK	2.9	3.7	1.7	2.0	1.0	1.5	4.7	4.4	1.1	1.1	2.8	2.5
Albany—Schenectady—Troy	2.4	3.4	1.1	1.2	.6	1.6	3.5	4.2	.7	.6	1.8	2.2
Binghamton	2.5	1.9	1.3	1.4	.8	.4	3.0	2.3	1.0	1.0	1.5	.6
Buffalo	1.7	1.9	.7	.8	.8	.8	6.6	4.8	.4	.4	5.4	3.9
Elmira	2.5	2.5	1.5	1.6	.7	.6	4.1	2.0	1.0	.5	.6	.3
Monroe County ⁸	1.5	2.1	1.1	1.6	.2	.3	2.8	2.9	.6	.6	1.6	1.9
Nassau—Suffolk ⁹	3.8	3.6	3.1	2.9	.6	.5	3.8	4.4	2.1	2.1	.9	1.4
New York and Nassau—Suffolk	3.4	4.9	2.3	2.6	1.0	2.1	5.5	4.8	1.4	1.5	3.3	2.5
New York SMSA ¹⁰	3.2	5.2	2.0	2.5	1.1	2.5	6.0	4.9	1.2	1.3	4.0	2.8
New York City ¹⁰	3.5	5.8	2.1	2.7	1.3	2.9	6.6	5.2	1.3	1.4	4.5	3.1
Rochester	1.8	2.3	1.2	1.6	.4	.5	3.0	3.1	.7	.6	1.7	1.9
Syracuse	2.0	3.0	1.3	1.6	.5	1.0	4.3	2.9	.8	.9	2.9	1.3
Utica—Rome	2.2	2.5	1.2	1.6	.9	.7	3.5	4.1	.9	1.0	2.0	2.5
Westchester County ¹⁰	2.0	2.2	1.5	1.7	.3	.4	2.6	2.6	1.0	1.0	1.0	1.0
NORTH CAROLINA	3.5	3.7	2.9	2.9	.4	.4	4.0	4.0	2.5	2.3	.6	.8
Charlotte—Gastonia	5.4	4.7	4.7	4.0	.4	.4	5.8	5.2	4.0	3.5	.7	.6
Greensboro—Winston-Salem—High Point	3.3	3.5	2.7	2.6	.3	.1	3.7	3.2	2.2	1.9	.6	.4
NORTH DAKOTA	6.9	6.1	2.2	3.4	4.2	2.5	6.4	9.1	2.7	2.6	2.9	5.8
Fargo—Moorhead	3.7	9.1	1.6	2.5	1.5	6.0	13.6	7.1	1.9	1.9	10.2	3.9
OHIO	1.8	2.3	.8	.8	(*)	(*)	4.2	5.0	.6	.5	2.9	3.8
Akron	1.0	1.3	.5	.6	(*)	(*)	3.1	3.6	.3	.4	2.3	2.7
Canton	2.3	2.1	1.3	1.2	(*)	(*)	2.8	4.2	.6	.6	1.4	2.8
Cincinnati	1.8	2.0	1.1	1.1	(*)	(*)	2.8	2.0	.8	.6	1.4	.9
Cleveland	1.9	2.1	1.0	.9	(*)	(*)	3.7	5.7	.7	.5	2.1	4.2
Columbus	2.1	1.6	1.4	1.1	(*)	(*)	2.7	2.7	.8	.8	1.3	1.4
Dayton	1.2	1.5	.8	.8	(*)	(*)	4.2	3.4	.7	.5	2.7	2.3
Toledo	2.1	1.8	.6	.6	(*)	(*)	4.0	4.9	.3	.5	2.7	3.5
Youngstown—Warren	1.5	3.4	.4	.4	(*)	(*)	5.2	7.8	.5	.3	3.9	6.9
OKLAHOMA	4.4	5.3	3.8	4.5	.4	.5	5.8	5.5	3.5	3.5	1.3	1.1
Oklahoma City	4.2	4.4	3.5	3.4	.4	.5	5.5	4.8	3.1	3.1	1.5	.7
Tulsa ¹¹	4.7	5.5	4.4	4.9	.2	.4	5.5	5.4	3.4	3.2	.8	.9
OREGON ⁴	3.8	3.7	2.0	1.5	1.5	2.1	7.7	4.7	1.5	1.2	5.3	2.7
Eugene—Springfield ⁴	2.3	2.4	1.1	1.0	.9	1.2	5.0	2.7	.9	.6	3.3	1.7
Portland	3.7	2.6	2.5	1.6	1.1	.9	5.7	4.1	1.8	1.4	3.1	2.1

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	
	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P	Apr. 1980	May 1980 ^P
PENNSYLVANIA	2.5	2.8	1.2	1.4	1.0	1.2	3.4	4.2	0.8	0.8	2.0	2.7
Allentown—Bethlehem—Easton	2.1	2.6	1.2	1.4	.7	.8	3.1	3.3	.8	.7	1.8	1.9
Altoona	2.1	2.5	1.5	.9	.6	1.4	1.4	2.1	.6	.5	.6	1.4
Erie	2.2	2.9	.9	1.3	.8	1.0	2.9	3.3	.6	.8	1.4	1.8
Harrisburgh	2.5	2.7	1.4	1.9	.8	.6	4.3	3.2	1.2	1.0	2.5	1.5
Johnstown	3.0	2.7	.6	.9	1.9	1.2	3.2	3.9	.5	.5	2.1	2.8
Lancaster	2.6	2.6	1.8	1.6	.8	.9	3.2	3.2	1.2	1.1	1.4	1.5
Northeast Pennsylvania	3.3	3.1	1.3	1.7	1.7	1.2	3.8	4.7	.9	.9	2.3	3.1
Philadelphia SMSA	2.5	2.9	1.5	1.8	.8	.9	3.2	3.6	.9	1.0	1.6	1.9
Pittsburgh	2.0	2.5	.8	.8	1.0	1.2	2.9	5.1	.4	.4	1.8	4.0
Reading ¹²	2.3	3.0	1.3	1.7	1.0	1.1	3.8	4.0	.9	1.0	2.4	2.2
Scranton	3.2	2.7	1.2	1.3	1.9	1.3	3.6	4.1	.9	1.0	2.2	2.6
Wilkes-Barre—Hazleton ¹²	3.8	4.2	1.6	2.3	1.9	1.6	4.0	5.0	1.0	.9	2.5	3.3
Williamsport	2.0	1.9	1.4	.8	.3	1.0	2.0	2.6	.4	.5	1.2	1.8
York	2.5	2.5	1.8	1.4	.6	1.0	3.9	4.0	1.4	1.1	2.0	2.4
RHODE ISLAND	4.3	4.2	2.9	2.3	1.2	1.7	5.0	5.9	2.2	1.9	2.0	3.1
Providence—Warwick—Pawtucket	4.2	4.1	2.8	2.2	1.2	1.7	5.1	5.9	2.1	1.9	2.2	3.2
SOUTH CAROLINA	3.3	3.6	2.7	2.8	.3	.5	4.1	5.0	2.2	2.0	.7	1.7
Charleston—North Charleston	4.4	3.5	3.7	2.9	.6	.4	4.3	8.5	2.0	2.4	.7	3.9
Columbia	4.5	3.6	3.7	3.0	.6	.4	4.2	4.7	2.2	2.6	.9	1.3
Greenville—Spartanburg	3.8	3.6	3.4	3.2	.1	.2	4.4	4.5	2.7	2.3	.5	1.0
SOUTH DAKOTA	2.4	3.9	1.2	1.5	1.2	2.2	4.1	5.8	1.4	1.7	1.9	3.4
Sioux Falls	3.9	3.0	.7	1.5	3.2	1.5	4.8	4.8	1.2	1.6	2.5	3.1
TENNESSEE:												
Memphis	2.5	2.6	1.8	1.9	.5	.5	3.2	4.7	1.4	1.3	1.0	2.6
TEXAS:												
Dallas—Fort Worth	5.5	5.9	4.6	4.0	.9	1.7	4.9	6.1	3.3	3.1	.6	2.0
Houston	4.0	4.2	3.9	3.8	.1	.2	3.9	3.8	2.6	2.4	.3	.3
San Antonio	4.5	5.0	4.2	4.5	.2	.3	5.0	4.3	3.2	2.9	.5	.2
UTAH ³	4.9	4.0	4.0	3.5	.8	.4	5.1	4.8	2.8	2.6	.9	1.3
Salt Lake City—Ogden ³	4.8	3.8	4.4	3.5	.4	.3	5.3	4.0	3.0	2.6	.7	.5
VERMONT	2.6	3.6	2.0	2.7	.4	.7	3.1	3.5	1.5	1.5	.9	1.5
Burlington	2.7	3.6	2.1	3.2	.4	.2	2.1	2.2	1.0	1.0	.6	.8
Springfield	2.4	2.4	2.0	2.1	.4	.2	2.4	2.5	1.0	.9	.6	1.0
VIRGINIA	2.7	3.1	1.9	1.9	.6	.9	3.4	3.7	1.4	1.4	1.3	1.5
Richmond	2.0	1.5	1.4	.8	.1	.2	1.9	2.7	.8	.5	.3	1.4
WASHINGTON: ¹³												
Seattle—Everett	2.7	2.7	2.0	1.8	.6	.8	3.9	2.7	1.3	1.0	1.9	1.2
WISCONSIN	2.3	2.8	1.0	1.3	1.0	1.2	5.2	4.3	.8	.7	3.5	2.7
Milwaukee	2.4	2.4	.9	1.1	1.1	.8	5.0	4.1	.7	.6	3.1	2.5
WYOMING	7.9	14.6	6.1	8.8	1.4	5.4	9.2	6.3	2.4	4.1	5.1	.4

¹ Excludes agricultural chemicals, and miscellaneous manufacturing.
² Excludes canned fruits, vegetables, preserves, jams, and jellies.
³ Excludes canning and preserving, and sugar.
⁴ Excludes canning and preserving.
⁵ Excludes canning and preserving, and newspapers.
⁶ Less than 0.05.
⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.
⁸ Subarea of Rochester Standard Metropolitan Statistical Area.
⁹ Area included in New York and Nassau-Suffolk combined SMSA's.
¹⁰ Subarea of New York Standard Metropolitan Statistical Area.

¹¹ Excludes new-hire rates for transportation equipment.
¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.
¹³ Excludes canning and preserving, printing and publishing.
^P preliminary.
^{*} Not available.

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

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
ALABAMA	1,646.8	1,639.5	1,632.5	127.9	135.3	153.7	7.8	8.3	9.4
Birmingham	379.9	382.1	382.9	25.7	29.5	34.0	6.8	7.7	8.9
Huntsville	139.4	138.4	138.4	12.3	12.9	14.0	8.8	9.3	10.1
Mobile	185.0	178.5	181.6	16.8	12.2	15.8	9.1	6.8	8.7
Montgomery	121.8	118.7	118.1	8.0	7.7	9.4	6.6	6.5	8.0
Tuscaloosa	51.2	52.5	51.0	3.3	4.0	4.4	6.4	7.5	8.6
ALASKA	189.2	188.5	195.0	16.6	17.8	19.8	8.8	9.4	10.2
ARIZONA	1,043.1	1,105.7	1,108.7	58.9	68.9	85.2	5.6	6.2	7.7
Phoenix	638.0	676.3	680.5	31.3	36.3	47.5	4.9	5.7	7.0
Tucson	186.1	199.6	196.9	9.0	10.9	12.9	4.8	5.5	6.6
ARKANSAS	977.2	981.3	989.1	59.2	69.9	80.0	6.1	7.1	8.1
Fayetteville-Springdale	74.7	78.0	77.7	3.0	4.3	5.0	4.0	5.6	6.5
Fort Smith ¹	85.9	84.5	85.0	6.3	7.9	9.3	7.3	9.3	10.9
Little Rock-North Little Rock	187.8	187.7	191.1	8.4	9.0	11.2	4.5	4.8	5.9
Pine Bluff	38.9	38.6	38.9	2.5	2.2	2.6	6.4	5.7	6.8
CALIFORNIA ²	10,924.0	11,064.6	11,167.1	643.0	734.9	802.9	5.9	6.6	7.2
Anheim-Santa Ana-Garden Grove	1,869.8	1,076.2	1,088.9	46.7	44.8	52.1	4.4	4.2	4.8
Bakersfield	182.4	176.3	184.4	13.3	12.5	14.7	7.3	7.1	8.0
Fresno	266.1	265.7	271.8	17.1	23.0	22.9	6.4	8.6	8.4
Los Angeles-Long Beach ²	3,430.0	3,581.0	3,586.0	180.0	219.0	249.0	5.2	6.1	7.0
Modesto	133.2	134.2	135.6	18.2	18.8	18.6	13.6	14.0	13.7
Oxnard-Simi Valley-Ventura	224.7	224.3	227.4	16.0	14.8	18.1	7.1	6.6	8.0
Riverside-San Bernardino-Ontario	569.6	592.1	589.4	36.6	44.1	48.9	6.4	7.6	8.3
Sacramento	459.5	465.2	470.3	31.9	36.2	38.2	6.9	7.8	8.1
Salinas-Sasise-Monterey	134.1	131.6	131.9	7.4	10.4	10.6	5.5	7.9	8.0
San Diego	723.9	732.5	743.6	44.0	49.6	56.1	6.1	6.8	7.5
San Francisco-Oakland	1,581.1	1,563.7	1,573.7	81.2	81.7	90.6	5.1	5.2	5.8
San Jose	704.4	713.8	725.0	38.2	39.2	43.6	5.4	5.5	6.0
Santa Barbara-Santa Maria-Lompoc	143.7	143.7	145.2	7.7	7.7	8.7	5.4	5.4	6.0
Santa Rosa	126.8	126.5	127.1	7.3	9.6	10.1	5.8	7.6	7.9
Stockton	167.6	164.8	167.1	13.7	17.4	16.6	8.2	10.6	9.9
Vallejo-Fairfield-Napa	123.9	123.4	126.0	6.9	9.0	9.6	5.6	7.3	7.6
COLORADO	1,417.4	1,443.7	1,476.0	69.9	75.4	88.7	4.9	5.2	6.0
Denver-Boulder	835.8	859.1	872.1	39.1	40.7	47.7	4.7	4.7	5.5
CONNECTICUT	1,613.0	1,614.2	1,639.3	85.0	80.8	96.7	5.3	5.0	5.9
Bridgeport	195.0	196.6	199.1	10.2	10.9	12.3	5.2	5.5	6.2
Hartford	387.9	390.2	395.8	19.0	16.3	19.6	4.9	4.2	4.9
New Britain	76.5	74.7	75.9	4.2	3.5	4.4	5.5	4.8	5.8
New Haven-West Haven	205.9	208.1	210.5	11.2	11.3	13.0	5.4	5.4	6.2
Stamford	123.4	123.3	126.7	5.1	4.2	6.4	4.1	3.4	5.0
Waterbury	112.1	110.8	112.4	6.3	7.3	8.4	5.6	6.5	7.4
DELAWARE	280.2	281.7	284.4	21.7	16.8	22.9	7.7	6.0	8.1
Wilmington ¹	246.3	245.9	N.A.	18.1	15.5	N.A.	7.3	6.3	N.A.
DISTRICT OF COLUMBIA	324.2	317.3	322.6	26.5	19.6	22.5	8.2	6.2	7.0
Washington SMSA ¹	1,643.4	1,623.9	1,650.3	79.5	62.9	75.3	4.8	3.9	4.6
FLORIDA ²	3,926.2	3,907.7	3,985.0	235.2	206.5	263.1	6.0	5.3	6.6
Fort Lauderdale-Hollywood	410.1	412.2	416.2	21.5	18.4	22.3	5.3	4.5	5.4
Jacksonville	308.5	298.9	307.8	18.0	15.6	19.8	5.8	5.2	6.4
Miami	731.0	723.2	739.3	43.8	39.5	48.0	6.0	5.5	6.5
Orlando	318.4	319.1	324.1	19.1	16.3	22.0	6.0	5.1	6.8
Pensacola	112.3	109.3	114.0	6.9	5.6	7.5	6.2	5.1	6.6
Tampa-St. Petersburg	603.0	597.0	605.4	30.7	30.3	36.0	5.1	5.1	5.9
West Palm Beach-Boca Raton	223.1	229.6	234.5	15.8	12.1	16.6	7.1	5.3	7.1
GEORGIA	2,350.6	2,406.2	2,428.3	126.8	154.3	184.6	5.4	6.4	7.6
Albany	49.1	51.7	52.6	3.1	3.9	4.6	6.4	7.6	8.7
Atlanta	942.9	965.4	964.0	47.2	52.5	63.9	5.0	5.4	6.6
Augusta	122.2	121.3	122.1	7.6	7.6	8.7	6.2	6.3	7.1
Columbus ¹	85.8	86.9	87.4	6.3	6.7	7.1	7.3	7.7	8.1
Macon	99.0	99.4	98.7	5.7	5.7	6.4	5.8	5.7	6.5
Savannah	88.9	87.5	88.0	5.3	6.1	6.6	6.0	6.9	7.5

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		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
HAWAII	400.6	399.7	403.1	28.0	17.4	20.5	7.0	4.4	5.1
Honolulu	315.0	314.0	315.2	21.4	13.1	15.3	6.8	4.2	4.9
IDAHO	438.7	431.0	436.6	21.1	33.8	36.2	4.8	7.9	8.3
Boise City	90.7	89.6	89.4	3.4	5.5	6.5	3.8	6.2	7.3
ILLINOIS ²	5,402.6	5,422.7	5,493.5	322.1	396.0	504.7	6.0	7.3	9.2
Bloomington—Normal	61.1	61.2	58.4	2.6	3.2	3.9	4.3	5.3	6.7
Champaign—Urbana—Rantoul	76.7	82.9	80.6	3.9	4.5	5.4	5.1	5.4	6.7
Chicago	3,364.6	3,377.6	3,416.8	195.9	229.7	291.3	5.8	6.8	8.5
Davenport—Rock Island—Moline ¹	143.6	189.8	184.3	8.6	12.7	13.9	4.7	6.7	7.4
Decatur	74.3	60.1	61.9	4.2	6.2	8.8	7.2	10.3	14.2
Peoria	175.0	175.0	174.7	9.2	12.9	15.9	5.2	7.4	9.9
Rockford	136.7	135.7	140.6	7.7	11.4	15.3	5.7	8.4	10.9
Springfield	75.8	97.6	97.6	5.7	6.5	8.1	6.0	6.7	8.3
INDIANA	2,644.1	2,667.7	2,702.0	168.5	278.9	320.6	6.4	10.5	11.9
Anderson	60.3	59.9	60.4	3.5	11.3	13.3	5.9	18.9	22.0
Evansville ¹	145.9	N.A.	N.A.	7.0	N.A.	N.A.	4.8	N.A.	N.A.
Fort Wayne	198.4	194.3	202.1	11.0	19.5	23.1	5.5	9.8	11.4
Gary—Hammond—East Chicago	302.5	304.4	311.5	20.9	33.7	44.3	6.9	11.1	14.2
Indianapolis	600.2	613.7	621.4	33.7	48.9	54.4	5.6	8.0	8.7
Lafayette—West Lafayette	59.5	61.8	59.8	3.2	4.6	4.6	5.3	7.4	7.8
Muncie	56.1	59.8	58.5	4.0	7.8	7.8	7.2	13.0	13.4
South Bend	143.6	144.8	146.1	9.1	15.2	16.2	6.4	10.5	11.1
Terre Haute	82.5	82.1	82.3	4.6	6.3	7.7	5.5	7.6	9.3
IOWA	1,493.1	1,487.4	1,497.1	61.5	84.0	96.8	4.1	5.6	6.5
Cedar Rapids	48.7	91.1	91.2	3.7	5.7	7.0	4.2	6.2	7.7
Des Moines	185.7	186.1	186.6	7.5	11.4	12.2	4.1	6.1	6.5
Dubuque	46.3	47.0	47.1	2.6	3.4	4.7	5.5	7.2	9.9
Sioux City ¹	56.7	N.A.	N.A.	4.3	N.A.	N.A.	7.7	N.A.	N.A.
Waterloo—Cedar Falls	69.2	71.8	71.7	3.4	3.7	5.1	5.0	5.2	7.1
KANSAS	1,233.3	1,222.4	1,244.7	43.0	52.0	61.5	3.5	4.3	4.9
Topeka	101.5	99.0	100.9	4.8	4.7	5.7	4.8	4.7	5.6
Wichita	233.0	233.1	236.0	8.7	10.1	12.0	3.7	4.3	5.1
KENTUCKY	1,592.7	1,581.6	1,607.4	83.7	101.5	121.1	5.3	6.4	7.5
Lexington—Fayette	168.5	168.7	172.5	5.6	6.5	8.2	3.3	3.8	4.7
Louisville ¹	421.2	423.5	429.4	23.1	28.2	36.8	5.5	6.7	8.6
Owensboro	38.5	39.8	40.0	1.9	2.4	2.8	4.9	6.0	7.0
LOUISIANA	1,707.0	1,724.5	1,725.2	128.2	125.6	130.8	7.5	7.3	7.6
Alexandria	67.5	68.5	67.5	6.1	6.3	6.6	9.0	9.2	9.7
Baton Rouge	205.2	210.2	212.4	16.7	14.0	15.4	8.1	6.7	7.3
Lafayette	73.8	75.1	76.0	4.0	3.1	3.7	5.4	4.1	4.8
Lake Charles	72.4	72.7	71.8	5.6	6.6	6.0	7.7	9.1	8.4
Monroe	53.6	53.1	52.1	4.3	4.9	5.1	8.1	9.3	9.7
New Orleans	478.0	480.3	478.4	32.4	29.0	31.3	6.8	6.0	6.5
Shreveport	154.9	153.9	155.4	10.5	11.9	12.4	6.7	7.7	8.0
MAINE	502.9	496.8	512.9	35.0	35.2	39.3	7.0	7.1	7.7
Lewiston—Auburn	38.0	39.1	39.6	2.6	2.2	2.8	6.9	5.7	7.0
Portland	89.3	90.3	91.9	5.2	4.3	5.5	5.8	4.8	6.0
MARYLAND	2,142.5	2,140.2	2,169.5	125.9	130.9	153.6	5.9	6.1	7.1
Baltimore	1,064.9	1,065.8	1,074.7	70.7	75.4	88.4	6.6	7.1	8.2
MASSACHUSETTS ²	2,942.9	2,870.0	2,893.9	150.1	167.8	191.5	5.1	5.8	6.6
Boston	1,430.0	1,407.5	1,414.6	71.5	73.4	83.4	5.0	5.2	5.9
Brockton	82.2	81.1	81.9	5.0	6.0	7.0	6.1	7.4	8.5
Fall River ¹	78.8	77.5	77.7	4.8	6.7	6.9	6.1	8.6	8.9
Lawrence—Haverhill ¹	141.5	140.5	142.4	8.6	8.9	10.0	6.1	6.3	7.0
Lowell	120.2	119.3	122.2	6.4	7.3	8.6	5.3	6.1	7.0
New Bedford	80.4	78.3	79.3	4.6	6.1	7.2	5.8	7.9	9.0
Springfield—Chicopee—Holyoke	278.8	270.6	267.8	12.1	16.6	17.0	4.3	6.1	6.4
Worcester	199.5	195.6	196.2	8.5	10.1	12.4	4.3	5.2	6.3
MICHIGAN ²	4,371.6	4,321.4	4,413.2	316.1	607.1	619.8	7.2	14.0	14.0
Ann Arbor	143.7	N.A.	N.A.	8.0	N.A.	N.A.	5.6	N.A.	N.A.

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		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
MICHIGAN—Continued									
Battle Creek	80.9	N.A.	N.A.	5.2	N.A.	N.A.	6.4	N.A.	N.A.
Bay City	51.8	N.A.	N.A.	3.8	N.A.	N.A.	7.3	N.A.	N.A.
Detroit	2,070.1	N.A.	N.A.	148.5	N.A.	N.A.	7.2	N.A.	N.A.
Flint	228.3	N.A.	N.A.	16.9	N.A.	N.A.	7.4	N.A.	N.A.
Grand Rapids	313.3	N.A.	N.A.	17.1	N.A.	N.A.	5.5	N.A.	N.A.
Jackson	69.9	N.A.	N.A.	5.0	N.A.	N.A.	7.1	N.A.	N.A.
Kalamazoo—Portage	134.0	N.A.	N.A.	8.0	N.A.	N.A.	5.9	N.A.	N.A.
Lansing—East Lansing	239.9	N.A.	N.A.	14.6	N.A.	N.A.	6.1	N.A.	N.A.
Muskegon—Norton Shores—Muskegon Heights	78.1	N.A.	N.A.	7.3	N.A.	N.A.	9.3	N.A.	N.A.
Saginaw	103.9	N.A.	N.A.	7.0	N.A.	N.A.	6.7	N.A.	N.A.
MINNESOTA	2,129.6	2,159.4	2,200.0	86.2	117.5	140.8	4.0	5.4	6.4
Duluth—Superior ¹	119.4	N.A.	N.A.	6.5	N.A.	N.A.	5.4	N.A.	N.A.
Minneapolis—St. Paul	1,114.8	1,136.8	1,138.1	38.2	49.5	59.6	3.4	4.4	5.2
MISSISSIPPI	1,010.4	1,032.4	1,040.8	61.6	70.8	89.2	6.1	6.9	8.6
Jackson	151.4	154.6	157.4	6.2	7.6	8.8	4.1	4.9	5.6
MISSOURI	2,328.2	2,351.6	2,385.1	100.4	157.9	184.0	4.3	6.7	7.7
Kansas City ¹	708.1	691.3	701.2	28.5	44.4	50.1	4.0	6.4	7.2
St. Joseph	45.2	45.3	46.3	2.1	3.1	3.6	4.7	6.7	7.8
St. Louis ¹	1,110.7	1,098.1	1,117.8	59.6	82.7	101.0	5.4	7.5	9.0
Springfield	103.9	105.0	105.1	3.5	5.4	5.8	3.4	5.2	5.5
MONTANA	390.6	378.3	344.5	20.2	19.0	23.6	5.2	5.0	6.0
Billings	56.8	56.5	54.1	2.1	2.1	2.9	3.7	3.7	5.0
Great Falls	35.8	33.6	34.6	2.5	1.8	2.5	6.9	5.4	7.4
NEBRASKA	805.8	801.1	810.1	27.3	27.7	33.7	3.4	3.5	4.2
Lincoln	112.7	115.1	114.9	3.5	4.0	4.2	3.1	3.5	3.6
Omaha ¹	288.0	283.3	285.7	14.7	13.1	16.9	5.1	4.6	5.9
NEVADA	361.7	372.7	376.6	20.2	20.1	23.6	5.6	5.4	6.3
Las Vegas	195.9	204.7	206.1	13.6	12.8	15.4	6.9	6.3	7.5
Reno	106.6	108.5	109.1	3.6	4.3	4.9	3.4	4.0	4.5
NEW HAMPSHIRE	451.7	464.3	471.0	13.8	19.1	23.6	3.1	4.1	5.0
Manchester	79.9	81.0	82.1	2.6	3.2	4.2	3.2	4.0	5.1
Nashua	73.1	76.0	78.0	2.0	2.6	3.8	2.8	3.6	4.9
NEW JERSEY	3,581.3	3,552.8	3,645.2	252.8	289.4	294.0	7.1	8.1	8.1
Atlantic City	100.8	102.1	106.4	8.8	10.4	8.8	8.7	10.2	8.3
Jersey City	248.1	248.7	250.3	26.2	30.4	29.1	10.5	12.2	11.6
Long Branch—Asbury Park	233.0	226.3	235.2	16.2	19.3	18.8	6.9	8.5	8.0
Newark	966.3	961.8	975.9	66.8	79.5	78.2	6.9	8.3	8.0
New Brunswick—Perth Amboy—Sayreville	327.2	326.8	337.7	22.0	23.7	25.3	6.7	7.3	7.5
Peterson—Clifton—Passaic	220.7	216.9	221.7	19.9	20.8	22.4	9.0	9.6	10.1
Trenton	159.7	162.8	165.7	8.9	10.9	11.9	5.6	6.7	7.2
Vineland—Millville—Bridgeton	61.8	62.6	63.9	5.8	7.2	7.5	9.4	11.5	11.7
NEW MEXICO	548.6	549.8	556.2	39.7	37.7	45.1	7.2	6.9	8.1
Albuquerque	204.3	209.2	209.3	14.8	14.8	18.0	7.2	7.1	8.6
NEW YORK²	8,045.0	7,913.6	8,002.6	558.3	586.7	565.1	6.9	7.4	7.1
Albany—Schenectady—Troy	378.8	375.9	377.5	16.9	22.4	22.3	4.5	6.0	5.9
Binghamton ¹	143.5	138.5	140.9	7.1	8.6	9.3	4.9	6.2	6.6
Buffalo	580.7	576.1	579.2	33.6	58.7	58.1	5.8	10.2	10.0
Elmira	40.5	39.5	39.6	2.2	3.3	3.2	5.4	8.3	8.1
Nassau—Suffolk	1,323.2	1,276.9	1,303.2	73.8	75.6	80.6	5.6	5.9	6.2
New York	3,634.5	3,605.8	3,629.0	327.8	278.6	247.9	9.0	7.7	6.8
New York City ²	3,019.0	3,002.0	3,015.0	302.0	251.0	219.0	10.0	8.4	7.3
Poughkeepsie	107.7	107.5	108.7	4.2	5.3	6.0	3.9	5.0	5.6
Rochester	474.4	463.0	468.8	20.7	29.6	31.1	4.4	6.4	6.6
Syracuse	306.7	300.9	303.0	14.6	23.4	23.6	4.8	7.8	7.8
Utica—Rome	140.4	136.4	138.7	6.9	9.3	10.1	4.9	6.8	7.3
NORTH CAROLINA	2,738.4	2,765.6	2,819.4	138.8	167.0	208.8	5.1	6.0	7.4
Asheville	86.1	82.9	85.2	3.4	4.3	5.2	3.9	5.2	6.0
Charlotte—Gastonia	343.1	348.4	348.0	14.3	17.8	19.9	4.2	5.1	5.7

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
NORTH CAROLINA—Continued									
Greensboro—Winston-Salem—High Point	424.2	424.9	436.5	18.5	21.7	30.4	4.4	5.1	7.0
Raleigh—Durham	285.2	297.1	298.4	9.6	12.9	15.6	3.4	4.3	5.2
NORTH DAKOTA	321.0	324.7	325.8	10.6	13.0	16.2	3.3	4.0	5.0
Fargo—Moorhead ¹	71.7	70.6	72.1	2.9	3.4	4.4	4.1	4.9	6.1
OHIO ²	5,045.4	5,034.8	5,156.3	292.5	438.9	502.5	5.8	8.7	9.7
Akron	301.7	303.4	306.9	18.5	25.1	28.3	6.1	8.3	9.2
Canton	144.6	145.8	140.3	10.1	16.1	19.0	5.5	8.7	13.0
Cincinnati ¹	654.8	662.9	676.8	33.8	47.0	52.2	5.1	7.1	7.7
Cleveland	930.5	923.0	945.7	44.9	70.2	77.8	4.8	7.6	8.2
Columbus	540.2	538.4	549.7	27.5	31.0	35.0	5.1	5.8	6.4
Dayton	391.6	385.5	394.1	26.4	31.0	35.6	6.7	8.0	9.0
Toledo ¹	370.5	369.1	374.3	26.0	41.9	44.8	7.0	11.4	11.8
Youngstown—Warren	236.4	234.0	243.4	16.3	31.6	33.3	6.9	13.2	13.7
OKLAHOMA	1,300.3	1,327.0	1,332.7	45.1	54.2	57.5	3.5	4.1	4.3
Oklahoma City	394.2	411.1	417.5	12.5	15.1	16.6	3.2	3.7	4.0
Tulsa	310.6	313.1	314.6	10.4	11.8	12.8	3.3	3.8	4.1
OREGON	1,246.4	1,252.0	1,276.1	80.1	104.0	112.7	6.4	8.3	8.8
Eugene—Springfield	124.9	124.6	131.4	10.3	13.0	14.4	8.0	10.0	11.0
Portland ¹	600.1	N.A.	N.A.	32.5	N.A.	N.A.	5.4	N.A.	N.A.
Salem	116.3	119.7	122.9	6.9	9.0	9.7	5.9	7.5	7.9
PENNSYLVANIA ²	5,332.9	5,300.9	5,395.7	383.2	391.8	432.8	7.2	7.2	8.0
Allentown—Bethlehem—Easton ¹	298.5	298.8	306.3	20.1	18.8	23.1	6.7	6.3	7.5
Altoona	58.6	59.6	61.1	5.1	4.8	5.3	8.7	8.1	8.6
Erie	125.9	126.3	129.4	10.0	11.1	11.9	7.9	8.8	9.2
Harrisburg	219.3	217.0	219.6	12.1	11.7	13.1	5.5	5.4	5.9
Johnstown	109.8	109.1	111.2	9.1	11.8	13.3	8.2	10.8	12.0
Lancaster	177.7	176.7	179.1	9.1	9.5	10.8	5.1	5.4	6.0
Northeast Pennsylvania	284.3	283.2	286.4	24.2	25.4	27.4	8.5	9.0	9.6
Philadelphia ¹	2,129.1	2,127.0	2,154.1	157.9	142.8	154.0	7.4	6.7	7.2
Pittsburgh	1,021.0	1,000.9	1,027.9	64.0	65.1	78.7	6.3	6.5	7.7
Reading	151.7	152.1	154.5	9.9	11.8	12.8	6.5	7.7	8.3
Williamsport	52.8	52.4	52.9	4.9	7.0	6.3	9.3	13.4	11.9
York	172.0	171.5	174.0	9.9	10.8	12.8	5.7	6.3	7.4
RHODE ISLAND	459.3	455.5	461.5	32.1	29.4	33.9	7.0	6.5	7.3
Providence—Warwick—Pawtucket ¹	459.0	450.3	455.0	31.6	30.0	34.5	6.9	6.7	7.6
SOUTH CAROLINA	1,337.8	1,280.6	1,314.9	68.2	83.5	110.8	5.1	6.5	8.4
Charleston—North Charleston	157.3	151.9	155.3	9.0	10.1	12.6	5.7	6.7	8.1
Columbia	174.4	170.7	169.6	7.1	7.7	8.9	4.1	4.5	5.3
Greenville—Spartanburg	263.9	253.7	255.8	10.6	13.6	16.3	4.0	5.3	6.4
SOUTH DAKOTA	361.2	346.9	358.6	14.5	12.6	16.4	4.0	3.6	4.6
Sioux Falls	64.2	61.1	62.0	2.1	2.3	2.9	3.2	3.8	4.6
TENNESSEE	2,010.6	2,003.4	2,017.8	114.4	135.1	164.0	5.7	6.7	8.1
Chattanooga ¹	195.7	197.4	201.5	11.4	15.1	19.0	5.8	7.6	9.4
Knoxville	205.4	205.5	207.8	8.7	10.4	12.7	4.2	5.1	6.1
Memphis ¹	388.0	387.0	390.1	20.8	22.2	27.1	5.4	5.7	7.0
Nashville—Davidson	420.2	414.2	412.8	18.7	23.1	27.0	4.5	5.6	6.6
TEXAS ²	6,289.4	6,281.8	6,429.4	303.3	314.5	385.5	4.8	5.0	6.0
Amarillo	88.9	87.3	88.8	3.5	3.5	4.2	4.0	4.0	4.8
Austin	246.2	249.0	251.1	8.7	8.8	10.2	3.5	3.5	4.0
Beaumont—Port Arthur—Orange	164.9	158.4	161.6	11.4	10.8	13.1	6.9	6.8	8.1
Corpus Christi	143.5	141.0	142.7	8.3	8.1	9.8	5.8	5.7	6.9
Dallas—Fort Worth	1,480.8	1,504.4	1,543.3	59.4	64.4	81.1	4.0	4.3	5.3
El Paso	170.5	169.2	173.3	15.4	14.9	17.4	9.0	8.8	10.0
Galveston—Texas City	81.8	82.5	85.5	5.1	4.8	6.0	6.2	5.8	7.1
Houston	1,430.9	1,431.9	1,464.2	56.2	57.3	70.6	3.9	4.0	4.8
Lubbock	99.4	100.8	100.0	4.3	4.1	5.0	4.3	4.1	5.0
San Antonio	414.2	410.2	426.1	27.9	24.7	35.0	6.7	6.0	8.2
Waco	78.5	80.2	79.9	3.7	5.2	5.0	4.7	6.4	6.2
Wichita Falls	59.7	59.9	60.3	2.2	2.8	2.9	3.6	4.7	4.8

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		
	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P	JUN. 1979	MAY 1980	JUN. 1980P
UTAH	595.0	604.0	618.1	27.2	32.2	38.4	4.6	5.3	6.2
Salt Lake City—Ogden	392.1	401.6	406.3	17.8	20.4	23.9	4.6	5.1	5.9
VERMONT	240.6	237.5	242.9	11.9	13.4	15.3	5.0	5.6	6.3
VIRGINIA	2,523.4	2,524.2	2,556.2	123.4	119.3	147.2	4.9	4.7	5.8
Lynchburg	76.1	77.4	78.0	2.9	3.4	4.3	3.8	4.3	5.5
Newport News—Hampton	162.6	166.6	172.1	9.1	8.3	10.2	5.6	5.0	5.9
Norfolk—Virginia Beach—Portsmouth ¹	330.5	329.0	334.2	20.1	17.7	23.9	6.1	5.4	7.1
Petersburg—Colonial Heights—Hopewell	59.6	62.0	63.5	3.3	3.5	4.3	5.6	5.7	6.8
Richmond	331.2	332.9	335.3	12.9	11.1	14.5	3.9	3.3	4.3
Roanoke	110.3	111.7	112.9	4.5	4.6	5.3	4.1	4.1	4.7
WASHINGTON	1,947.8	1,936.4	1,964.8	126.6	144.6	167.6	6.5	7.5	8.5
Seattle—Everett	836.5	850.7	859.2	49.0	52.0	60.9	5.4	6.1	7.1
Spokane	155.3	150.3	153.5	10.0	11.8	13.1	6.4	7.9	8.6
Tacoma	179.2	172.8	174.5	13.4	15.2	17.4	7.5	8.8	10.0
WEST VIRGINIA	758.9	755.5	764.5	48.7	64.1	70.8	6.4	8.5	9.3
Charleston	129.1	128.5	130.4	6.4	8.9	9.6	4.9	7.0	7.4
Huntington—Ashland ¹	126.2	N.A.	N.A.	6.9	N.A.	N.A.	5.5	N.A.	N.A.
Parkersburg—Marietta ¹	71.5	N.A.	N.A.	4.2	N.A.	N.A.	5.8	N.A.	N.A.
Wheeling ¹	82.1	N.A.	N.A.	4.8	N.A.	N.A.	5.9	N.A.	N.A.
WISCONSIN	2,421.3	2,431.4	2,452.3	102.3	170.0	176.6	4.2	7.0	7.2
Appleton—Oshkosh	152.9	155.7	156.7	6.1	10.0	11.0	4.0	6.4	7.0
Eau Claire	58.1	60.2	60.5	2.8	5.5	4.3	4.7	9.1	7.1
Green Bay	89.8	90.3	92.0	4.9	5.5	6.1	5.5	6.1	6.6
Kenosha	64.0	60.8	64.3	2.8	4.3	5.0	4.3	15.4	7.8
La Crosse	46.2	48.2	48.1	1.9	2.5	2.6	4.1	5.2	5.4
Madison	180.3	184.4	188.9	6.4	4.3	9.0	3.5	4.4	4.8
Milwaukee	734.6	741.2	746.1	30.1	42.8	47.5	4.1	5.8	6.4
Racine	90.0	90.6	90.4	3.7	7.6	7.3	4.1	4.3	6.1
WYOMING	236.9	235.1	243.7	6.1	7.9	9.5	2.6	3.3	3.9

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.)

visional and will be revised when new benchmark information becomes available. Data refer to place of residence.
p=preliminary.
N.A.=not available.

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

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

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

Explanatory Notes

Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 65,000 households, representing 629 areas in 1,133 counties and independent cities, with coverage in 50 States and the District of Columbia. The data collected are based on the activity or status reported for the calendar week including the 12th of the month.

Data based on establishment records are obtained 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 about 35 million nonagricultural wage and salary workers. The data relate to all workers, full- or part-time, who received pay during the payroll period which includes the 12th day of the month. Based on a somewhat smaller sample, labor turnover data relate to actions occurring during the entire month.

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

Employment

Coverage. The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Employment in both agricultural and nonagricultural in-

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

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

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

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

Hours of work

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

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 (some workers in agriculture, domestic services and religious organizations, self-employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid \$1,000 or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of \$20,000 or more in wages in any calendar quarter, and almost all State and local government employees.

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

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

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

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

Statistics on manufactures and business, Bureau of the Census. BLS establishment statistics on employment differ from employment

counts derived by the Bureau of 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 the BLS statistics.

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

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

Household data (A tables)

COLLECTION AND COVERAGE

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

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

Inmates of institutions, members of the Armed Forces, and persons under 14 years of age are not covered in the regular monthly enumerations and are excluded from the population and labor force statistics shown in this report. Data on members of the Armed Forces, who are

included as part of the categories "total noninstitutional population" and "total labor force," are, however, obtained from the Department of Defense.

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

Beginning in September 1975, the sample was enlarged by 9,000 households in order to provide greater reliability for smaller States and thus permit the publication of annual statistics for all 50 States and the District of Columbia. These supplementary households were added to the national 47,000 household sample in January 1978.

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

CONCEPTS

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

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

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

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

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

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

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

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

The civilian labor force comprises the total of all civilians classified as employed or unemployed in accordance with the criteria described above. The "total labor force" also includes members of the Armed Forces stationed either in the United States or abroad.

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

labor force; the sum of the rates for the four groups thus equals the total unemployment rate.

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

Employment-population ratios represent the proportion of the noninstitutional population that is employed.

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

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

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

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

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

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

The distribution of employment by hours worked relate to persons "at work" during the survey week. At work data differ from data on total employment because the latter include persons in the zero-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." Correspondingly, persons who worked between 1 and 34 hours are designated as working "part time." Part-time workers are classified by their usual status at their present job (either full or part time) and by their reason for working part time during the survey week (economic or other reasons). "Economic reasons" include: Slack work, material shortages, repairs to plant or equipment, start or termination of a job during the week, and inability to find full-time work. "Other reasons" include: Labor dispute, bad weather, own illness, vacation, demands of home housework, school, no desire for full-time work, and full-time worker only during the peak season. Persons on full-time schedules include, in addition to those working 35 hours or more, those who worked from 1-34 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," 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, and Asian and Pacific Islanders. The term "black" is used in this volume when the relevant data are provided exclusively for the black population.

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

Major activity: going to school and *major activity: other* are terms used to describe whether the activity of young persons during the reference week is primarily one of going to school or not. Statistics on major activity are published every month in table A-7 for 16-21 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 non-poor 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. A detailed discussion of this and other definitional changes introduced at that time, including estimates of their effect on the various series is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints may be obtained upon request.

Noncomparability of labor force levels

Before the changes introduced in 1967, the labor force data were not comparable for three earlier periods: (1) Beginning 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 indica-

tion 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 had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. Although any impact of this change is still unknown, it is possible that it has caused a break in the time series for some racial statistics.

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

Changes in the occupational classification system

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

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

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

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

Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for 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. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. A recent change was introduced in January 1980, when another supplemental sample of 9,000 households selected in 32 States and the District of Columbia to provide more reliable quarterly average estimates for States, was added to the existing sample.

The following table provides a description of some aspects of the CPS sample design in use during the 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*, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce, or *Concepts and Methods used in Labor Force Statistics Derived from the Current Population Survey*, BLS Report 463.

ESTIMATING METHODS

Under the estimating methods used in the CPS, all of the results for a given month become available simultaneously and are based on returns from the entire panel of respondents. There are not subsequent adjustments to independent benchmark data on labor force, employment, or unemployment. Therefore, revisions of the historical data are not an inherent feature of this statistical program.

The CPS estimation procedure involves weighting the data from each sample person. The basic weight, which is the inverse of the probability of the person being in the sample, is a rough measure of the number of actual persons that the sample person represents. In States supplemented in the 1978 and 1980 expansions, almost all sample persons within the same sample area have the same basic weight, but the weight may differ across sample areas. The basic weight is the same for almost all sample persons in unsupplemented States. The basic weights are then adjusted for noninterview, and the ratio estimation procedure is applied.

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and

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 Dec. 1979	614	53,500	2,500	10,000
Jan. 1980 to present	629	62,200	2,800	12,000

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

² These are housing units 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.

black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 4 to 5 percent depending on weather, vacations, etc.

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

a. *First-stage ratio estimate.* In the CPS, a portion of the 629 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South and West), and secondly, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

b. *Second-stage ratio estimate.* In this stage, the sample proportion in the categories described below are adjusted to the distribution of independent current estimates of the population in the same categories. The second-stage ratio estimate is done in order to increase the reliability of the estimates and is done in three steps. In the first step, the sample estimates are adjusted within each State and the District of Columbia to an independent control for the population 16 years and

over for the State. The second step involves "nonwhite" persons only, and is an adjustment to independent estimates of 40 age-sex-race categories across the whole Nation. (The race categories used are black and other minority races.) The third adjustment is applied to all sample persons and is a weighting to nationwide independent population estimates within 68 age-sex-race groups. The entire second-stage ratio estimation procedure is iterated six times, each time beginning at the weights developed the previous time. This iteration ensures that the sample estimates both of State population and of national age-sex-race categories, will be virtually equal to the independent population estimates.

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

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

3. *Composite estimate procedure.* In deriving statistics for a given month, a composite estimating procedure is used which takes account

of net changes from the previous month for continuing parts of the sample (75 percent) as well as the sample results for the current month. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of levels are also improved, but to a lesser extent.

Rounding of estimates

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

Reliability of the estimates

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

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

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

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

The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates 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. Bailar, *Journal of the American Statistical Association*, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Overall undercoverage as compared to the level of the decennial census, is about 5 percent. It is known that the CPS undercoverage varies with age, sex, and race. Generally, undercoverage is larger for males than for females and larger for black and other races than for whites. Ratio estimation to independent age-sex-race population controls, as described previously, partially corrects for the biases due to survey undercoverage. However, biases exist in the estimates to the extent that missed persons in missed households or missed persons in interviewed households have different characteristics than interviewed persons in the same age-sex-race group. Further, the independent population controls us-

ed have not been adjusted for undercoverage in the 1970 census, which was estimated at 2.5 percent of the population, with differentials by age, sex, and race similar to those observed in the CPS.

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

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

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

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations were required. First, the standard errors in this report reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. 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 of an estimate rather than the precise standard error.

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

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table I contains factors for use with tables C, E, G and H to compute approximate standard errors, as described below, for levels, labor force participation rates,

and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

Table A. Standard errors of major employment status categories

(In thousands)

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

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

Illustration. Assume that the tables showed that the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate

of 12,000,000 is about 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in 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 show generalized standard errors for monthly level and month-to-month change for unemployment rates.

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

Illustration. For example, assume that 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 percentage point). The appropriate factor from table H for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 3.6 percent is then approximately $0.09 \times 1.26 = 0.1$ percentage point.

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

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

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			
Unemployed 15 weeks and over . . . . .	.08	.07			
OCCUPATION			Nonagricultural private wage and salary workers . . . . .	.12	.13
White-collar workers . . . . .	.12	.13	Construction . . . . .	.58	.66
Professional and technical . . . . .	.18	.20	Manufacturing . . . . .	.22	.24
Managers and administrators, except farm . . . . .	.19	.21	Durable goods . . . . .	.27	.30
Sales workers . . . . .	.37	.41	Nondurable goods . . . . .	.36	.40
Clerical workers . . . . .	.23	.26	Transportation and public utilities . . . . .	.31	.35
Blue-collar workers . . . . .	.20	.22	Wholesale and retail trade . . . . .	.25	.28
Craft and kindred workers . . . . .	.27	.30	Finance and service industries . . . . .	.17	.19
			Government workers . . . . .	.21	.23
			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

Table I. Factors to be used with Tables C, E, G, H to compute the approximate standard errors of level, rates and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages and change in yearly averages

Type of characteristic	Factors				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or male	1.30	.89	.80	.72	.70
Female or teenagers (16-19 years).....	1.30	.83	.80	.58	.70
Part time	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment data and unemployment data:					
Total or white	1.30	.88	.88	.67	.70
Black and other or teenagers (16-19 years).....	1.30	.82	.88	.57	.70
Part time	1.40	.74	.88	.46	.60
Unemployment:					
Total	1.40	.76	.88	.50	.65
Part time	1.40	.69	.88	.39	.54

Establishment data (B, C, and D tables)

COLLECTION

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

Federal-State cooperation

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

Establishments reporting on Form BLS 790 and Form DL 1219 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the principal product or activity.

All data on employment, hours, earnings, and labor turnover for the Nation and for most States and areas are classified in accordance with the 1972 *Standard Industrial Classification Manual* (SICM), Office of Management and Budget. The BLS tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sectors.

Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of

the pay period which includes the 12th of the month. For Federal Government establishments, employment figures represent the number of persons who occupied positions on the last day of the calendar month. Intermittent workers are counted if they performed any service during the month.

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

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

Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private service-producing industries. An exception to the definitions below are the statistics on hours and earnings of Federal Government employees, reported in table C-3, which are for all Federal employees, both supervisory and nonsupervisory, for the entire calendar month. When the pay period reported is longer than 1 week, figures are reduced to a weekly basis.

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

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

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

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

Hours cover the hours paid for, during the pay period which includes the 12th of the month, for production, construction, or non-supervisory workers. Included are hours paid for holidays and vacations, and for sick leave when pay is received directly from the firm.

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

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

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

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

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

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

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

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

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

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

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

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

Since part-time as well as full-time workers are included, and since the proportion of part-time workers has been rising, the series understates the increase in earnings for full-time workers. As noted, "fringe benefits" are not included in the earnings. For a more complete discussion of the uses and limitations of these series, see the article by Paul Ryscavage, "Two Divergent Measures of Purchasing Power," in the *Monthly Labor Review* for August 1979. Reprints of this article are available upon request from the Bureau of Labor Statistics.

"Real" earnings, or earnings in constant dollars, are computed by dividing the earnings averages for the current month by the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and then multiplying by 100. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in the purchasing power of the dollar since the base period (1967).

Average hourly earnings excluding overtime. Average hourly earnings excluding overtime premium pay are computed by dividing the total production-worker payroll for the industry group by the sum of total production-worker hours and one-half of total overtime hours. Prior to January 1956, these data were based on the application of adjustment factors to gross average hourly earnings (as described in the *Monthly Labor Review*, May 1950, pp. 537-40). Both methods are based on an assumption that earnings due to overtime are paid for at 1½ times the straight-time rates. No adjustment is made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

Indexes of aggregate weekly payrolls and hours. The indexes of aggregate weekly payrolls and hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 1967. For basic industries, the hours aggregates are the product of average weekly hours and production-worker or nonsupervisory-worker employment, and the payroll aggregates are the product of hour aggregates and average hourly earnings. At all higher levels of industry aggregation, hour and payroll aggregates are the sum of the component aggregates.

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

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

Labor turnover

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

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

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

Recalls are permanent or temporary additions to the employment roll of persons specifically recalled to a job in the same establishment of the company following a period of layoff lasting more than 7 consecutive days. (The collection of recalls, as a separate item, began January 1976.)

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

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

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

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

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

Relationship of labor turnover to employment series

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

ESTIMATING METHODS

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

The "link relative" technique

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

Size and regional stratification

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

Benchmark adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1979 levels. Normally, benchmark adjustments are made annually.

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

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

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

THE SAMPLE

Design

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

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

Item	Basic estimating cell (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
Monthly data		
All employees	All-employees estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. 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 J. Summary of methods for computing industry statistics on employment, hours, earnings, and labor turnover—Continued

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

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

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

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

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

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

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

Coverage

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

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

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

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

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent of total
Total	166,200	34,701,000	39
Mining	2,200	366,000	39
Construction	16,300	736,000	18
Manufacturing	45,200	11,580,000	55
Transportation and public utilities:			
Railroad transportation (ICC)	40	489,000	91
Other transportation and public utilities ..	7,500	2,305,000	51
Wholesale and retail trade	41,800	3,408,000	17
Finance, insurance, and real estate	10,900	1,779,000	36
Services	24,500	3,257,000	19
Government:			
Federal ²	4,700	2,740,000	100
State and local	13,100	8,041,000	60

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

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

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

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

Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a "link relative" technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision

adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table N presents the average percent revisions of the five most recent benchmarks (excluding the March 1973 adjustment) for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

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

[In percent]

Industry division	Average benchmark revision in estimates of employment ¹	Relative errors ² (in percent)	
		Average weekly hours	Average hourly earnings
Total nonagricultural employment	0.3	—	—
Total private .....	.3	0.1	0.2
Mining	1.1	.5	.5
Contract construction	1.7	.2	.3
Manufacturing .....	.3	.1	.1
Durable .....	.4	.1	.1
Nondurable goods .....	.4	.1	.1
Transportation and public utilities .....	.4	.7	.4
Trade .....	.3	.1	.2
Wholesale .....	.9	.2	.3
Retail .....	.2	.2	.2
Finance, insurance, and real estate .....	.5	.2	.4
Services .....	.6	.4	.8
Government ³ .....	.5	—	—

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

² Relative errors relate to March 1971 data.

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

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

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

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

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

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

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

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

¹ Assuming 12-month intervals between benchmark revisions.

² Relative errors relate to March 1971 data.

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

STATISTICS FOR STATES AND AREAS

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

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

Table P. Errors of preliminary employment estimates

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

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

PRODUCTIVITY DATA

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

Definitions

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

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

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

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

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

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

Notes on the data

For the private business sector and the nonfarm business sector, these indexes relate to the gross domestic product less household and institutions, owner-occupied housing, and statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business.

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

State and area unemployment data (E tables)

FEDERAL-STATE COOPERATIVE PROGRAM

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

ESTIMATING METHODS

Labor force and unemployment in 10 large States: New York, California, Illinois, Ohio, New Jersey, Pennsylvania, Michigan, Texas, Massachusetts, and Florida; and two areas: Los Angeles-Long Beach metropolitan area and New York City, are sufficiently reliable to be used directly from the CPS. For a description of the CPS concepts see "Household Data," above.

Monthly employment and unemployment estimates in the remaining 40 States and 214 labor market areas are prepared in several stages.

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

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

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

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

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

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

U = total entrant unemployment

E = total employment

X = total experienced unemployment

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

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

4. *Substate adjustment for additivity.* Independent estimates of employment and unemployment are prepared both for the State (obtained directly from the CPS in the 10 large States or by the UI-based method in the remaining States), and labor market areas (LMA's)

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

5. *Benchmark correction procedures.* Once each year monthly estimates prepared by State employment security agencies using UI-based estimating procedures are adjusted, or benchmarked, by BLS to the annual average CPS estimates for the 40 States for which monthly

CPS estimates are not available. This adjustment is necessary because the State-prepared estimates are not as reliable as the CPS annual averages due to differences in State UI laws, the structural limitations of the UI-based estimating method, and errors in the UI data.

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

Seasonal adjustment

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

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

Beginning in January 1980, the BLS introduced two major modifications in the seasonal adjustment methodology for data from the household survey. First, the data are being seasonally adjusted with a new procedure called X-11/ARIMA, which was developed at Statistics Canada as an extension of the existing standard X-11 method. A detailed description of the procedure appears in *The X-11 ARIMA Seasonal Adjustment Method*, by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, September 1979. The X-11 procedure was originally developed at the Bureau of the Census and had been used by the BLS to seasonally adjust labor force series since 1973. Tests have shown that use of the X-11 ARIMA procedure, which essentially places more emphasis on recent data, provides better seasonal adjustments than does the X-11 method alone.

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

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

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

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

Seasonal adjustment factors are directly applied to the component levels. Seasonally adjusted totals for most of these series are then obtained by taking a weighted average of the seasonally adjusted data for the component series. Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and seasonally adjusted weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and multiplying by 100. Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers,

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

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

The seasonally adjusted establishment data for Federal Government are based on a series which excludes the Christmas temporary help employed by the Postal Service in December. The employment of these workers constitutes the only significant seasonal change in Federal Government employment during the winter months. Further-

more, the volume of such employment may change substantially from year to year because of administrative decisions by the Postal Service. Hence, it was considered desirable to exclude this group from the data upon which the seasonally adjusted series is based.

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

The revised seasonally adjusted series for the establishment data reflect experience through March 1980. Seasonal factors to be used for current adjustment appear in the July 1980 issue of *Employment and Earnings*.

U.S. Department of Labor Bureau of Labor Statistics

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COOPERATING STATE AGENCIES

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

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IX ARIZONA	-Department of Economic Security, P.O. Box 6123, Phoenix 85005
VI ARKANSAS	-Employment Security Division, Department of Labor, P.O. Box 2981, Little Rock 72203
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