

# Employment and Earnings

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# Employment and Unemployment Developments, September 1980

Employment rose slightly in September, and unemployment edged down. The unemployment rate was 7.5 percent in September, compared with 7.6 percent in August and 7.8 percent in July.

Total employment—as measured by the monthly survey of households—was up by 200,000 to 97.2 million. Nonfarm payroll employment—as measured by the monthly survey of establishments—also rose by about 200,000 in September. The factory workweek increased for the second straight month.

## Unemployment

The Nation's unemployment rate was 7.5 percent in September, down from the rates that prevailed over the May-July period. From August to September, unemployment declined among adult women, whose rate dropped 0.4 percentage point to 6.1 percent, and teenagers, whose rate was down from 19.1 to 17.5 percent. The unemployment rate for adult men, in contrast, was about unchanged at 6.7 percent. The jobless rate for white workers was down over the month to 6.5 percent, while the rate for black and other workers, at 14.2 percent, has fluctuated around 14 percent since May. The unemployment rate for Hispanics continued to edge up, reaching 11.3 percent. (See tables A-33 and A-35.)

The rate for white-collar workers was unchanged over the month, while there were improvements among blue-collar, service, and farm workers. Among the major industry divisions, unemployment rates for workers in construction (16.5 percent) and agriculture (10.9 percent) fell substantially following large increases in the previous month. (See table A-36.)

The number of persons unemployed declined by nearly 200,000 in September to 7.8 million. The number on layoff increased but was still below the level registered in the May-July period. The median duration of joblessness, at 8.2 weeks, increased for the fourth month in a row; there was a decrease in the number of persons unemployed less than 5 weeks and an increase in the other duration categories. (See tables A-37 and A-39.)

## Total employment and the labor force

Total employment rose by 200,000 in September to

97.2 million. An increase in agriculture accounted for the gain, as employment in this industry did not register the normal seasonal decline. (On a not seasonally-adjusted basis, agricultural employment was unchanged over the month.) Although total employment has increased by 670,000 since June, this gain was insufficient to offset the decline which took place during the first half of 1980, leaving employment some 750,000 below its February peak. Similarly, the employment-population ratio was up slightly from June but, at 58.3 percent in September, was still a full point lower than in February.

Contrasting over-the-month movements occurred among the major demographic and occupational groups. Teenage employment, which has exhibited considerable volatility over the past several months, registered a substantial increase, rebounding to about its July level. There was little August-September change in total employment among adult men and women. White-collar employment fell, while there was an increase among blue-collar workers following eight consecutive monthly declines; employment among farm workers also advanced. (See tables A-33 and A-42.)

The civilian labor force was unchanged in September at 105.0 million. Over the past year, the labor force increased by 1.3 million, a substantially slower pace than in recent years. Adult women accounted for most of the year-to-year growth.

## Discouraged workers

Discouraged workers are persons who report that they want to work but are not looking for jobs because they believe they cannot find any. Because they do not meet the labor market test—that is, they are not engaged in active job search—they are classified as not in the labor force rather than unemployed. Data for this group are published quarterly. (See table A-53.)

The number of discouraged workers rose slightly in the third quarter to 970,000. Although women and blacks account for a disproportionately large share of the discouraged, the over-the-quarter advance took place among men and whites. About 70 percent of the discouraged cited job-market factors as the reason for their discouragement.

## Industry payroll employment

The number of employees on nonagricultural payrolls rose by 185,000 in September, the second consecutive monthly increase. The 2-month gain totaled 430,000, as payroll jobs reached 90.3 million, still 900,000 below the February peak. Growth was widespread in both the goods- and service-producing sectors, with more than 60 percent of the 172 industries in the BLS diffusion index of private nonfarm employment registering over-the-month gains. (See tables B-4 and B-7.)

Manufacturing employment also rose for the second month in a row. The September increase of 55,000 brought the factory employment total to 20 million, still 1 million below its year-ago level. Unlike August, nearly all of the September increase occurred in the durable goods sector. Gains were especially marked in primary and fabricated metals and transportation equipment. Only machinery posted a notable decline. Employment gains in several of the nondurable industries, including a pickup in rubber and plastic products, were offset by a decrease of 30,000 in food processing.

Elsewhere in the goods-producing sector, construction employment rose by 45,000, while a slight increase in mining was due entirely to strikers returning to their jobs.

Employment in the service-producing sector continued the modest growth of recent months, as the September total of 64.9 million exceeded its previous peak reached in April. Growth was once again concentrated in retail trade (45,000) and services (80,000). Federal government employment declined for the fifth month in a row, as the 1980 Decennial Census collection operation continued to be phased out.

## Hours of work

The average workweek for production or nonsupervisory workers on private nonfarm payrolls edged up

0.1 hour to 35.2 hours in September, following an increase of 0.2 hour in August. The workweek had declined fairly steadily from the beginning of the year through July. The manufacturing workweek also rose 0.1 hour in September (on top of a 0.4 hour increase in August), while factory overtime was unchanged. (See table C-7.)

The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls rose 0.6 percent in September to 123.7 (1967 = 100) as a result of the rise in both employment and hours. The index was still 2.7 percent below its January peak. The manufacturing index was up 0.9 percent over the month. (See table C-8.)

## Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls rose 0.4 percent over the month and 7.7 percent over the year (seasonally adjusted). Average weekly earnings were up 0.7 percent from August and 6.5 percent from September 1979.

Before adjustment for seasonality, average hourly earnings rose 10 cents over the month to \$6.77 and have risen 47 cents over the year. Average weekly earnings were \$238.98, up \$2.19 over the month and \$13.44 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 254.5 (1967 = 100) in September, 0.4 percent higher than in August. The Index was 8.6 percent above September a year ago. In dollar of constant purchasing power, the Index decreased 3.1 percent during the 12-month period ended in August. (See table C-9.)

# New Household Survey Statistics on Weekly Earnings

\*Earl F. Mellor

Quarterly publication of data which relate workers' earnings to the families in which they live begins with this issue of *Employment and Earnings*. The accompanying tables show the combined wage and salary earnings of all family members as well as the earnings of individual workers. Regular collection of these data from the Current Population Survey (CPS) began in 1979.

## New data series

Family earnings data are provided by type of family (those in which there is a married couple, those maintained by women, and those maintained by men), the number of earners, and the presence of unemployed family members (tables 1 and 2). Earnings of individuals by sex, age, race, Hispanic origin, and family relationship are provided separately for full- and part-time workers (tables 3 and 4). Earnings by occupation and sex are shown for full-time workers only (table 5). All of these tables show percent changes in earnings adjusted for changes in prices as measured by the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W). The CPI-W for the most recent quarter is not available at the time *Employment and Earnings* is published; hence it is necessary to lag the publication of these tables by 1 quarter.

The family focus of these series is in keeping with the heightened interest in such data as a result of increases in families with more than one earner and in families maintained by women. By relating information on earnings to the family circumstances in which people live, the impact of employment and unemployment on economic welfare can be better understood and analyzed.

The new series is designed to respond to such questions as: How do earnings in families with a single earner compare with those in which both the husband and wife work? What are the earnings of families in which either the husband or the wife is unemployed? How do the earnings of women compare with those of men? And what are the earnings of black and Hispanic workers compared with those of whites?

The tables provide some answers. For example, they show that in the second quarter of 1980, median wage and salary earnings were 72 percent higher in married-

couple families with multiple earners than in those with one earner. Median earnings of families with unemployed husbands were \$171 as contrasted with \$307 for families with unemployed wives. Among full-time workers, women earned 63 percent as much as men. As for blacks and Hispanics, their median earnings were about 80 percent of those of whites. The data also show that, over the past year, gains in weekly earnings for wage and salary workers and their families generally were outpaced by rising prices. Median weekly family earnings rose from \$372 in the second quarter of 1979 to \$399 in the second quarter of 1980, an increase of 7.4 percent, but the purchasing power of those earnings declined by 6.1 percent.

## Comparability with related data

The new quarterly data are similar to, but not strictly comparable with, May data on individual earnings derived from the CPS over the 1967-78 period.<sup>1</sup> For detailed information on the differences between the new and old series, see *Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey*, Report 601 (Bureau of Labor Statistics, July 1980).

Earnings data derived from the CPS cannot be directly compared with earnings data derived from the BLS monthly survey of business establishments because of differences in the universe and methodology. For example, the establishment survey is limited to production workers in mining and manufacturing, construction workers in the construction industry, and nonsupervisory workers in other private nonagricultural in-

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<sup>1</sup> Data from the old series were published in news releases, articles in the *Monthly Labor Review*, and *Special Labor Force Reports*. The most recent publication of these data was "Weekly and Hourly Earnings of U.S. Workers, 1967-78," by Janice Neipert Hedges and Earl F. Mellor, *Monthly Labor Review*, August 1979, pp. 31-41. Information on the new earnings series has been published in the following U.S. Department of Labor news releases: USDL 80-188, "New Data Relate Workers' Earnings to the Families in Which They Live" (March 27, 1980); USDL 80-352, "Earnings of Workers and Their Families: First Quarter 1980" (May 29, 1980); and USDL 80-540, "Earnings of Workers and Their Families: Second Quarter 1980" (August 29, 1980).

dustries. In contrast, the CPS covers all wage and salary workers. Another difference between the two surveys is that CPS data are available as distributions and medians, while establishment survey data are available only in terms of industry means.

### **Sampling variability**

As is the case with data from any sample survey, the new earnings series are subject to both sampling and

nonsampling errors. These two topics are covered in detail in the Explanatory Notes of each issue of *Employment and Earnings*. Standard errors for earnings-related items have different values than those shown for employment and unemployment. Illustrative standard errors for median earnings of persons and families are shown in table 6 and standard errors for estimates of the number of workers are shown in table J of the Explanatory Notes.



**Table 1. Median weekly earnings of families by type of family, number of earners, race, and Hispanic origin, quarterly averages, not seasonally adjusted**

Type of family, number of earners, race, and Hispanic origin	Number of families (in thousands)		Median weekly earnings			
	II 1979	II 1980	II 1979	II 1980	Percent change over the year in:	
					Current dollars	Constant dollars
<b>TOTAL</b>						
Total families with earners.....	40,548	40,293	\$372	\$399	7.4	-6.1
Married-couple families.....	33,586	33,257	401	431	7.3	-6.2
One earner.....	14,902	14,444	294	308	5.0	-8.2
Husband.....	12,568	11,854	318	339	6.6	-6.8
Wife.....	1,782	2,001	147	162	10.5	-3.4
Other family member.....	551	589	167	160	-4.3	-16.4
Two or more earners.....	18,684	18,812	490	530	8.2	-5.5
Husband and wife.....	15,570	15,841	491	534	8.6	-5.1
Husband and other family member(s).....	2,578	2,381	518	555	7.2	-6.3
Wife and other family member(s).....	370	457	343	349	1.6	-11.2
Other family members only.....	166	133	318	318	-2.2	-12.7
Families maintained by females.....	5,338	5,494	205	224	9.4	-4.4
One earner.....	3,705	3,883	166	186	12.4	-1.8
Householder.....	2,871	3,012	170	190	11.6	-2.5
Other family member.....	834	871	146	170	16.2	1.6
Two or more earners.....	1,633	1,611	327	361	10.3	-3.6
Families maintained by males.....	1,624	1,542	332	356	7.3	-6.2
One earner.....	1,006	968	270	284	5.1	-8.2
Two or more earners.....	618	574	457	468	2.4	-10.5
<b>White</b>						
Total families with earners.....	35,391	35,336	382	411	7.4	-6.2
Married-couple families.....	30,100	29,980	406	436	7.4	-6.1
One earner.....	13,442	13,117	301	316	5.0	-8.2
Husband.....	11,433	10,906	324	345	6.5	-6.9
Wife.....	1,525	1,688	149	163	9.7	-4.1
Two or more earners.....	16,659	16,863	493	537	8.9	-4.8
Husband and wife.....	13,788	14,181	493	538	9.2	-4.6
Families maintained by females.....	3,944	4,101	220	234	6.4	-7.0
Families maintained by males.....	1,347	1,255	343	369	7.5	-6.1
<b>Black<sup>1</sup></b>						
Total families with earners.....	4,437	4,306	281	295	5.2	-8.1
Married-couple families.....	2,916	2,750	346	348	.6	-12.1
One earner.....	1,225	1,145	226	219	-3.1	-15.3
Husband.....	940	795	254	256	.7	-12.0
Wife.....	229	286	135	155	15.1	.6
Two or more earners.....	1,691	1,605	454	462	1.9	-11.0
Husband and wife.....	1,491	1,369	465	478	2.7	-10.3
Families maintained by females.....	1,279	1,297	163	190	16.1	1.5
Families maintained by males.....	242	258	278	315	13.0	-1.2
<b>Hispanic origin<sup>2</sup></b>						
Total families with earners.....	2,170	2,303	294	326	10.8	-3.1
Married-couple families.....	1,840	1,841	309	348	12.8	-1.4
One earner.....	945	892	225	237	5.4	-7.8
Husband.....	810	752	237	261	10.0	-3.9
Wife.....	107	105	133	147	9.9	-4.0
Two or more earners.....	895	949	414	459	11.0	-3.0
Husband and wife.....	702	749	416	460	10.5	-3.4
Families maintained by females.....	235	314	182	211	15.7	1.1
Families maintained by males.....	94	148	(3)	317	-	-

<sup>1</sup>Data relate to black workers only. In the 1970 census, they constituted about 89 percent of the "black and other" population group.

<sup>2</sup>Data on persons of Hispanic ethnicity are collected independently of racial data. In the 1970 census, approximately 96 percent of the population were white.

<sup>3</sup>Median not shown where base is less than 100,000.

NOTE: Data exclude families in which there is no wage or salary earner or in which the husband, wife, or other person maintaining the family is either self-employed or in the Armed Forces.

**Table 2. Families with unemployed members and wage and salary workers by type of family and median weekly earnings, quarterly averages, not seasonally adjusted**

Type of family and relationship of unemployed members to wage and salary earners	Number of families (in thousands)		Median weekly earnings			
	II 1979	II 1980	II 1979	II 1980	Percent change over the year in:	
					Current dollars	Constant dollars
Married-couple families.....	2,541	3,066	\$318	\$308	-3.4	-15.6
Husband unemployed.....	500	893	164	171	4.3	-8.8
Wife only earner.....	378	678	151	161	6.4	-7.1
Wife and other earner(s).....	66	114	(1)	321	(1)	(1)
Other earner(s) only.....	56	102	(1)	147	(1)	(1)
Wife unemployed.....	871	924	283	307	8.2	-5.4
Husband only earner.....	772	795	270	290	7.5	-6.1
Husband and other earner(s).....	95	115	(1)	467	(1)	(1)
Other earner(s) only.....	5	15	(1)	(1)	(1)	(1)
Other member(s) unemployed.....	1,170	1,249	462	488	5.7	-7.6
Husband or wife earner.....	569	590	355	370	4.3	-8.9
Both husband and wife earners.....	574	624	566	575	1.4	-11.3
Other combinations of earners.....	27	35	(1)	(1)	(1)	(1)
Families maintained by females.....	489	583	185	221	19.6	4.5
Householder unemployed.....	71	65	(1)	(1)	(1)	(1)
Other member(s) unemployed.....	418	518	202	230	14.3	-1
Families maintained by males.....	142	179	271	304	12.0	-2.2

<sup>1</sup>See footnote 3, table 1.

NOTE: See note, table 1.

**Table 3. Median weekly earnings of full-time wage and salary workers by selected characteristics, quarterly averages, not seasonally adjusted**

Characteristic	Number of workers (in thousands)		Median weekly earnings			
	II 1979	II 1980	II 1979	II 1980	Percent change over the year in:	
					Current dollars	Constant dollars
<b>SEX AND AGE</b>						
Total, 16 years and over.....	70,529	69,974	\$242	\$261	7.7	-5.9
Males, 16 years and over.....	43,871	42,670	295	317	7.6	-6.0
16 to 24 years.....	8,428	7,673	199	211	6.3	-7.1
25 years and over.....	35,443	34,997	319	341	6.8	-6.7
Females, 16 years and over.....	26,658	27,304	183	200	9.7	-4.1
16 to 24 years.....	6,164	6,087	153	171	12.0	-2.1
25 years and over.....	20,494	21,217	193	214	10.6	-3.4
<b>FAMILY RELATIONSHIP</b>						
Husbands.....	30,434	29,700	321	344	7.1	-6.4
Wives.....	13,620	14,165	188	205	9.2	-4.5
Others in married-couple families.....	6,865	6,511	169	183	8.1	-5.5
Females who maintain families.....	3,609	3,721	185	205	11.1	-2.9
Others in such families.....	2,338	2,235	173	190	9.8	-4.0
Males who maintain families.....	1,329	1,263	297	302	1.7	-11.1
Others in such families.....	806	797	182	197	7.9	-5.7
All other males <sup>1</sup> .....	6,193	6,171	270	290	7.5	-6.0
All other females <sup>1</sup> .....	5,334	5,412	195	216	10.6	-3.4
<b>RACE AND HISPANIC ORIGIN</b>						
White.....	61,905	61,505	247	268	8.5	-5.2
Males.....	39,028	38,069	302	324	7.4	-6.1
Females.....	22,876	23,435	184	203	10.2	-3.7
Black <sup>2</sup> .....	7,334	7,193	205	217	5.5	-7.8
Males.....	4,126	3,907	237	248	4.5	-8.7
Females.....	3,208	3,286	172	187	8.5	-5.2
Hispanic origin <sup>3</sup> .....	3,780	3,892	193	211	9.7	-4.2
Males.....	2,450	2,484	222	237	6.8	-6.7
Females.....	1,330	1,408	153	175	14.6	.1

<sup>1</sup>The majority of these persons are living alone or with nonrelatives. Also included are persons in married-couple families where the husband is in the Armed Forces, persons in secondary families, and some whose family status is unknown.

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

<sup>3</sup>See footnote 2, table 1.

**Table 4. Median weekly earnings of part-time wage and salary workers by selected characteristics, quarterly averages, not seasonally adjusted**

Characteristic	Number of workers (in thousands)		Median weekly earnings			
	II 1979	II 1980	II 1979	II 1980	Percent change over the year in:	
					Current dollars	Constant dollars
<b>SEX AND AGE</b>						
Total, 16 years and over.....	14,890	15,550	\$65	\$74	12.7	-1.5
Males, 16 years and over.....	4,627	4,999	63	70	12.0	-2.1
16 to 24 years.....	2,957	3,173	57	63	10.0	-3.9
25 years and over.....	1,671	1,827	84	91	7.6	-5.9
Females, 16 years and over.....	10,263	10,551	68	75	11.1	-2.9
16 to 24 years.....	3,650	3,481	56	62	11.4	-2.6
25 years and over.....	6,613	7,070	78	83	6.4	-7.0
<b>FAMILY RELATIONSHIP</b>						
Husbands.....	1,145	1,276	86	91	6.2	-7.2
Wives.....	5,418	5,718	80	84	5.0	-8.2
Others in married-couple families.....	4,550	4,546	54	61	12.2	-2.0
Females who maintain families.....	712	703	77	81	5.8	-7.6
Others in such families.....	922	1,044	55	61	11.0	-3.0
Males who maintain families.....	82	66	(2)	(2)	(2)	(2)
Others in such families.....	249	276	62	73	19.1	4.1
All other males <sup>1</sup> .....	581	694	81	95	16.8	2.0
All other females <sup>1</sup> .....	1,233	1,228	66	76	15.9	1.3
<b>RACE AND HISPANIC ORIGIN</b>						
White.....	13,240	13,859	67	74	11.0	-3.0
Males.....	4,070	4,387	63	70	10.9	-3.1
Females.....	9,171	9,471	69	76	9.7	-4.1
Black <sup>3</sup> .....	1,377	1,420	59	73	23.7	8.1
Males.....	449	516	59	75	27.1	11.1
Females.....	928	905	59	71	21.0	5.7
Hispanic origin <sup>4</sup> .....	544	685	67	80	20.0	4.9
Males.....	215	268	63	82	30.3	13.8
Females.....	329	416	71	80	12.4	-1.8

<sup>1</sup>See footnote 1, table 3.

<sup>3</sup>See footnote 1, table 1.

<sup>2</sup>See footnote 3, table 1.

<sup>4</sup>See footnote 2, table 1.

**Table 5. Median weekly earnings of full-time wage and salary workers by occupation and sex, quarterly averages, not seasonally adjusted**

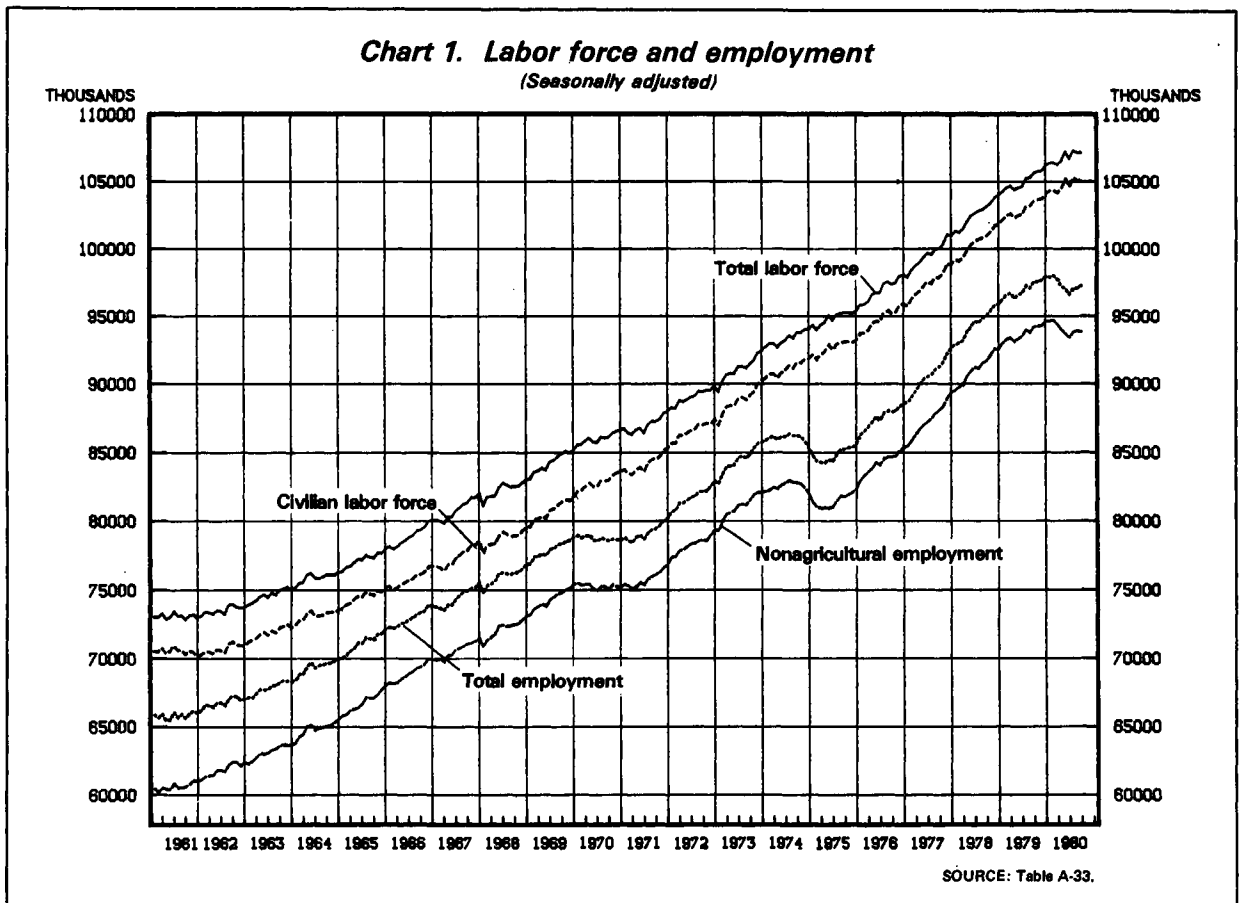
Occupation and sex	Number of workers (in thousands)		Median weekly earnings			
	II 1979	II 1980	II 1979	II 1980	Percent change over the year in:	
					Current dollars	Constant dollars
<b>TOTAL</b>						
Professional and technical workers.....	11,740	12,005	\$316	\$335	6.0	-7.3
Managers and administrators, except farm.....	7,277	7,244	341	372	9.2	-4.5
Sales workers.....	3,532	3,302	247	265	7.5	-6.0
Clerical workers.....	13,234	13,861	192	211	9.7	-4.1
Craft and kindred workers.....	10,714	10,675	298	324	8.6	-5.1
Operatives, except transport.....	9,815	9,066	213	226	6.3	-7.1
Transport equipment operatives.....	2,967	2,774	273	281	2.9	-10.1
Nonfarm laborers.....	3,495	3,271	213	219	2.9	-10.1
Service workers.....	6,941	6,992	160	177	11.1	-2.9
Farm workers.....	814	785	147	164	11.2	-2.8
<b>Males</b>						
Professional and technical workers.....	6,906	6,840	375	401	7.0	-6.5
Managers and administrators, except farm.....	5,466	5,288	386	431	11.7	-2.4
Sales workers.....	2,430	2,213	297	325	9.5	-4.3
Clerical workers.....	2,949	3,067	287	303	5.5	-7.8
Craft and kindred workers.....	10,142	10,148	305	330	8.1	-5.5
Operatives, except transport.....	6,030	5,558	257	275	7.1	-6.4
Transport equipment operatives.....	2,858	2,652	277	286	3.3	-9.8
Nonfarm laborers.....	3,133	2,926	220	226	2.7	-10.2
Service workers.....	3,268	3,321	203	222	9.6	-4.2
Farm workers.....	689	659	153	170	10.7	-3.2
<b>Females</b>						
Professional and technical workers.....	4,834	5,165	261	280	7.5	-6.1
Managers and administrators, except farm.....	1,811	1,956	232	247	6.6	-6.8
Sales workers.....	1,101	1,090	154	176	14.4	-1.1
Clerical workers.....	10,286	10,794	180	196	9.1	-4.6
Craft and kindred workers.....	572	527	189	203	7.7	-5.9
Operatives, except transport.....	3,785	3,508	156	172	10.1	-3.7
Transport equipment operatives.....	109	122	194	192	-1.3	-13.7
Nonfarm laborers.....	362	345	166	174	4.8	-8.4
Service workers.....	3,673	3,671	138	149	7.6	-5.9
Farm workers.....	125	126	125	140	12.0	-2.1

**Table 6. Standard errors for median weekly earnings of full-time workers and families by selected characteristics, second quarter 1979 and 1980**

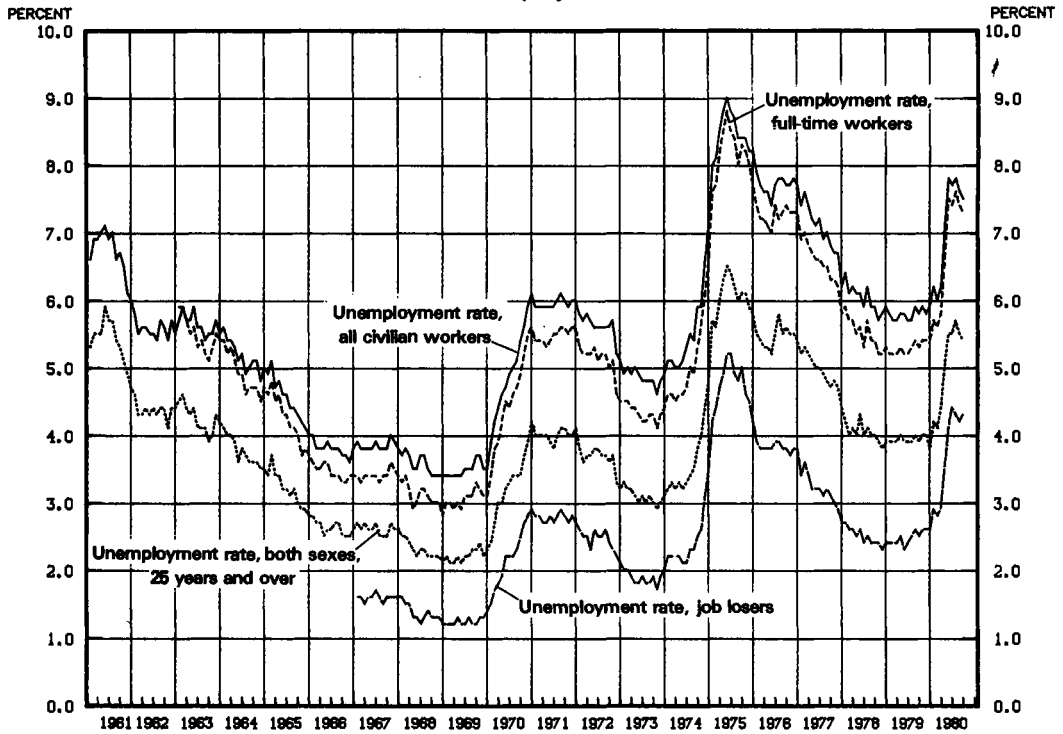
Characteristic	II 1979		II 1980	
	Median earnings	Standard error	Median earnings	Standard error
<b>FULL-TIME WORKERS</b>				
Total, 16 years and over.....	\$242	\$0.98	\$261	\$1.28
White.....	247	1.11	268	1.35
Black.....	205	2.95	217	2.84
Hispanic origin.....	193	4.11	211	5.18
Males, 16 years and over.....	295	1.48	317	1.49
16 to 24 years.....	199	2.15	211	2.28
25 years and over.....	319	1.46	341	1.52
White.....	302	1.50	324	1.57
Black.....	237	3.79	248	4.34
Hispanic origin.....	222	5.13	237	5.39
Females, 16 years and over.....	183	.87	200	1.06
16 to 24 years.....	153	1.60	171	1.41
25 years and over.....	193	1.03	214	1.22
White.....	184	.92	203	1.18
Black.....	172	2.96	187	2.56
Hispanic origin.....	153	4.29	175	4.31
<b>FAMILIES WITH WAGE AND SALARY WORKERS</b>				
Total families.....	372	2.34	399	2.40
Married-couple families.....	401	2.38	431	2.47
One earner.....	294	2.85	308	2.92
Two or more earners.....	490	2.92	530	3.59
Families maintained by females.....	205	3.72	224	3.37
Families maintained by males.....	332	7.51	356	9.91
White families.....	382	2.45	411	2.50
Black families.....	281	6.36	295	6.81
Hispanic-origin families.....	294	9.65	326	10.01
<b>FAMILIES WITH UNEMPLOYED MEMBERS AND WAGE AND SALARY EARNERS</b>				
Married-couple families.....	318	8.49	308	9.16
Husband unemployed.....	164	9.04	171	6.18
Wife unemployed.....	283	11.27	307	8.97
Other member(s) unemployed.....	462	19.60	488	14.07
Families maintained by females.....	185	12.07	221	14.43
Families maintained by males.....	271	72.98	304	41.48

## CHARTS

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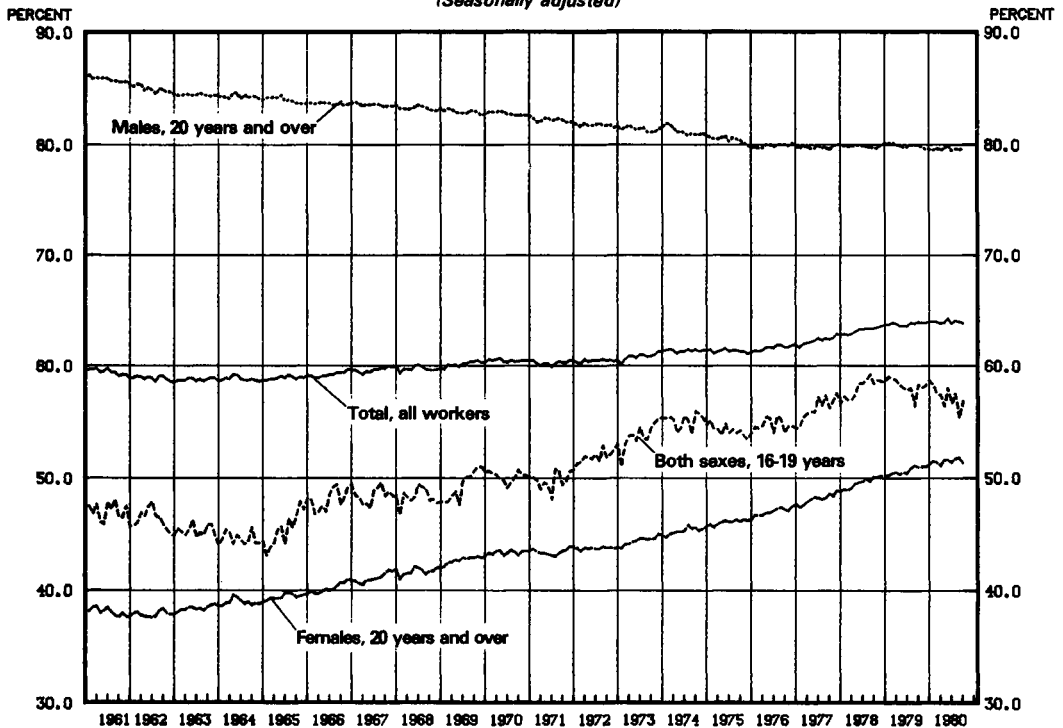


**Chart 2. Major unemployment indicators**  
(Seasonally adjusted)



SOURCE: Tables A-36, A-38, and A-39.

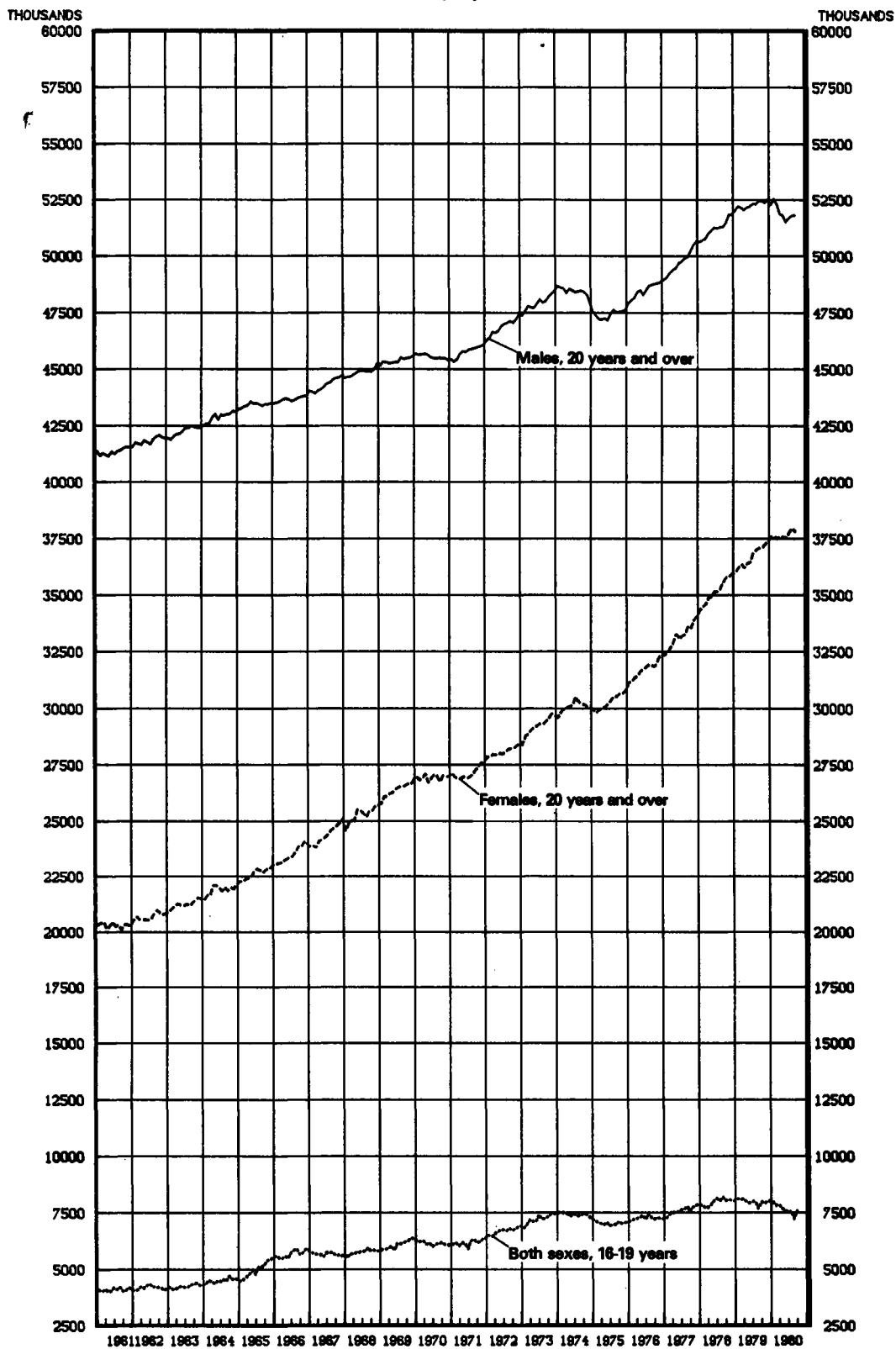
**Chart 3. Civilian labor force participation rates by sex and age**  
(Seasonally adjusted)



SOURCE: Table A-33.

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

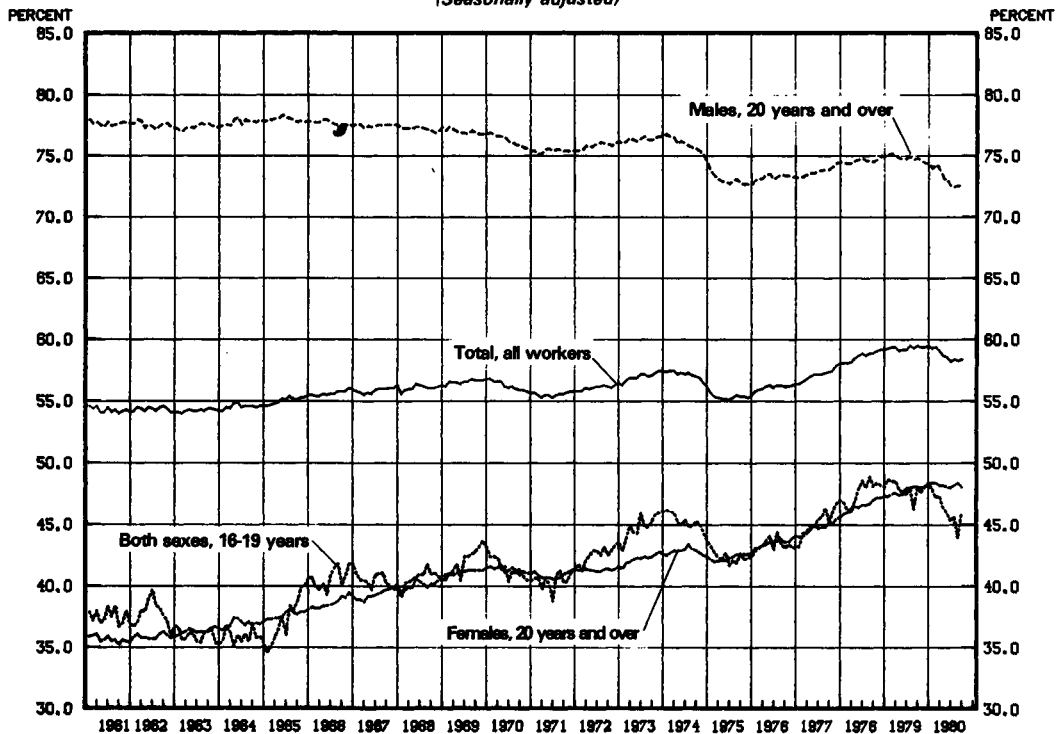
(Seasonally adjusted)



SOURCE: Table A-33.

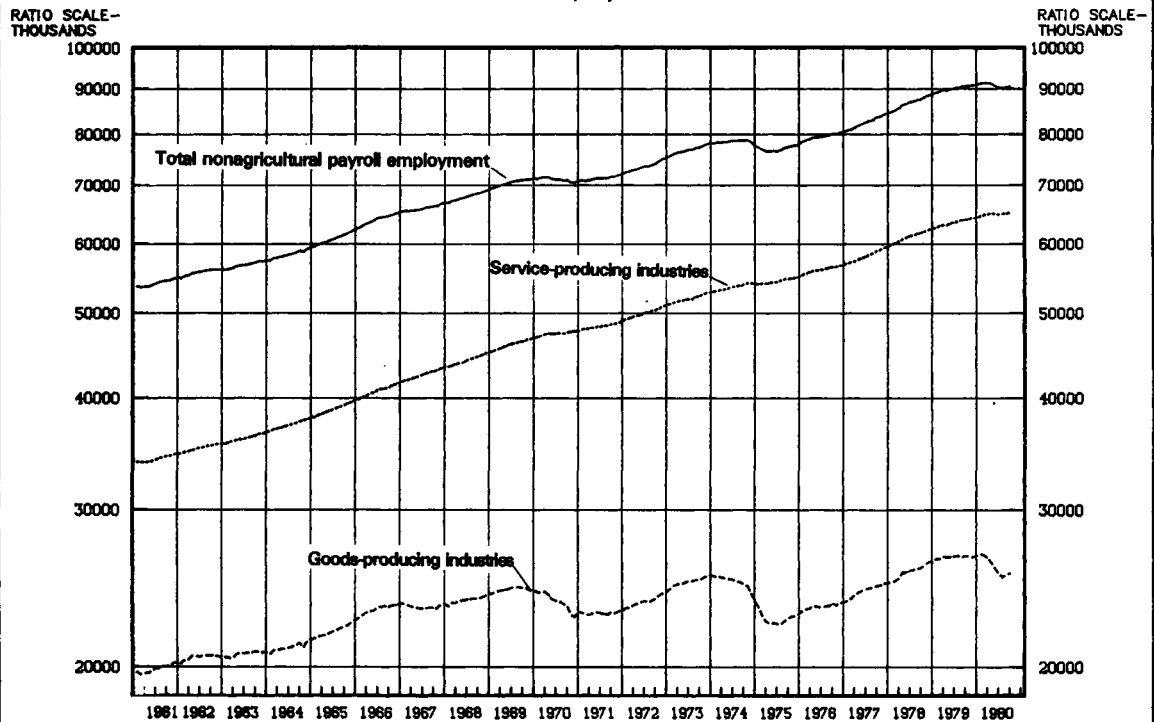


**Chart 5. Employment—population ratios by sex and age**  
(Seasonally adjusted)



SOURCE: Table A-33.

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

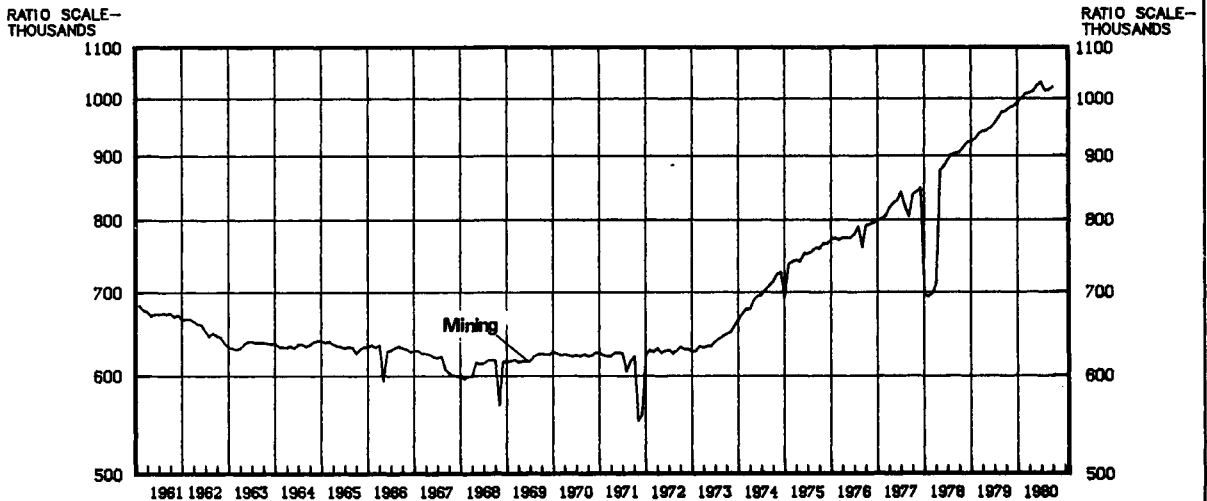
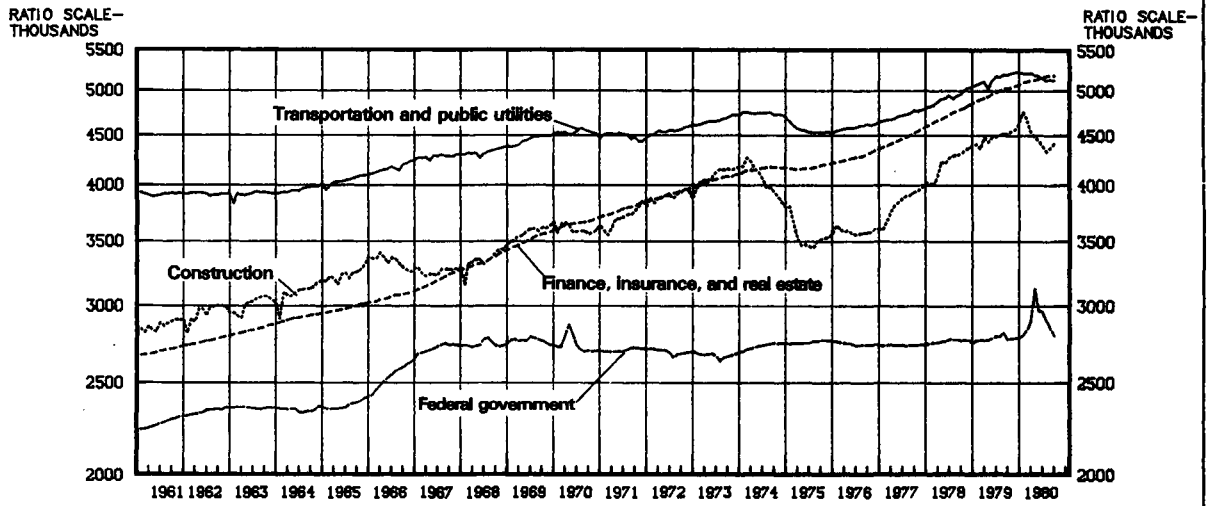
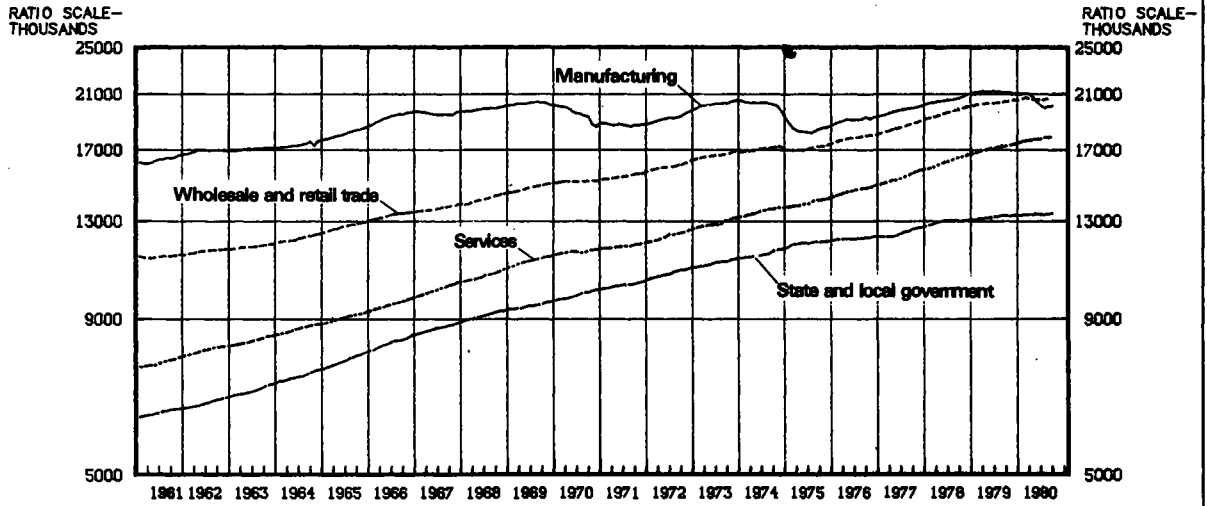


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

### Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

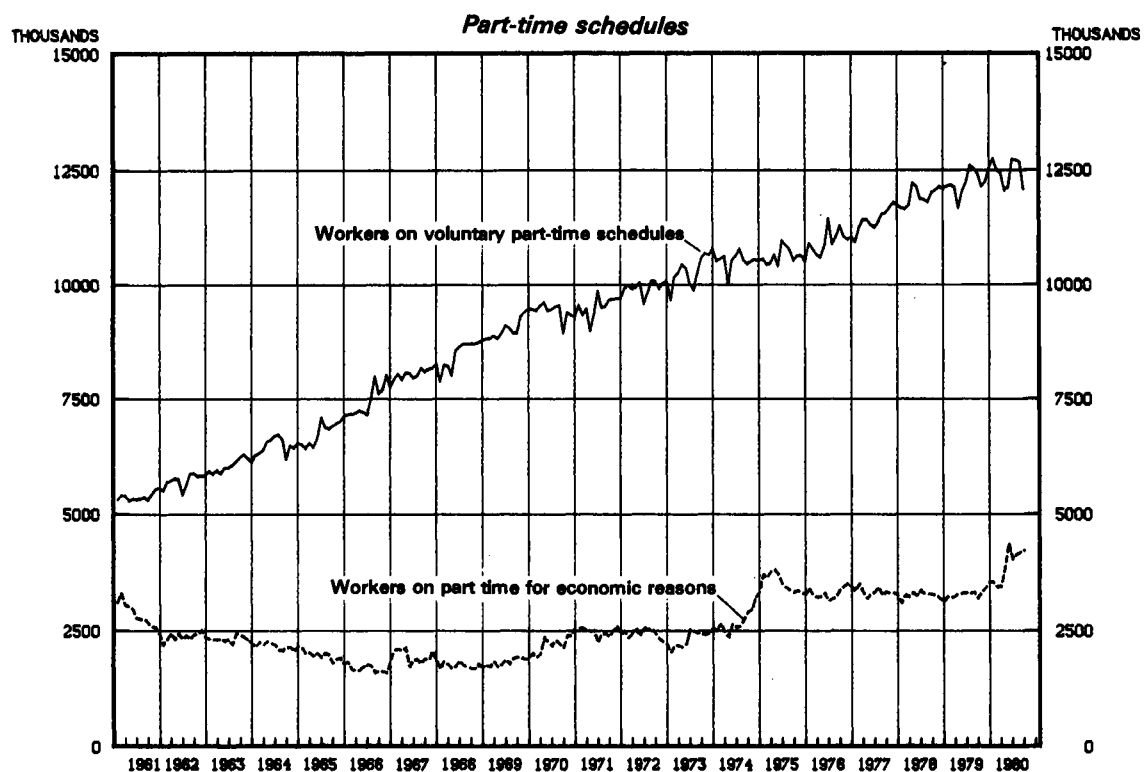
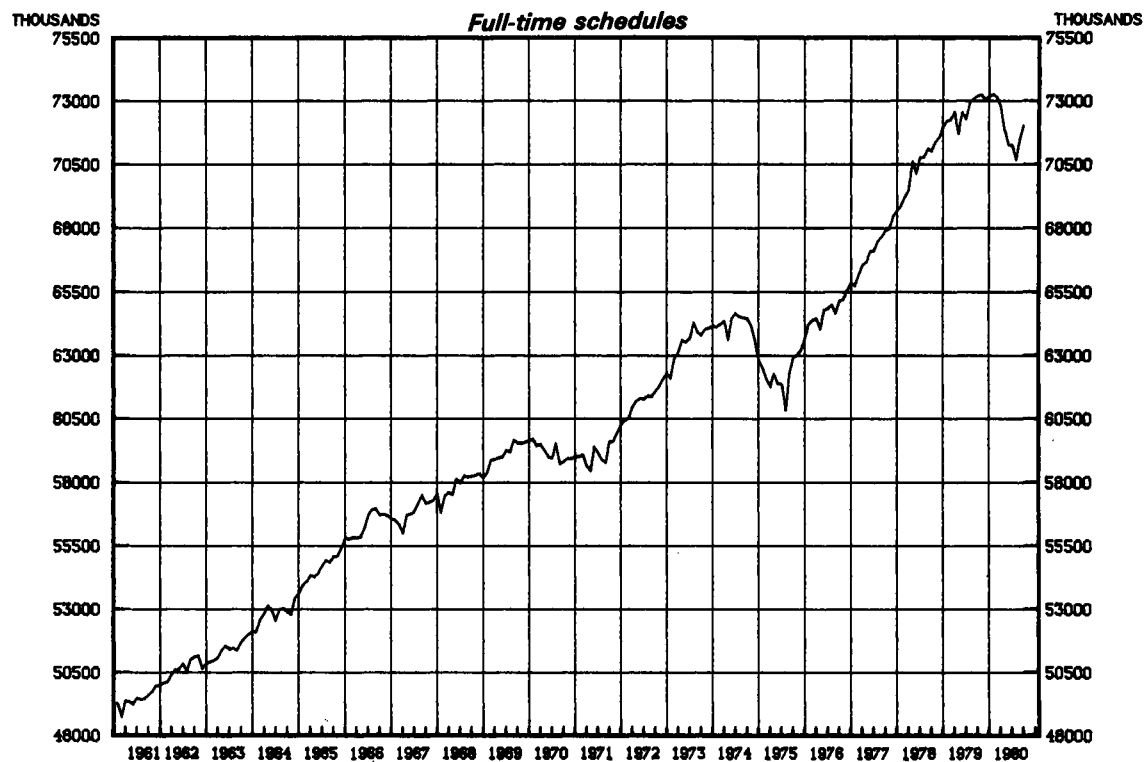


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

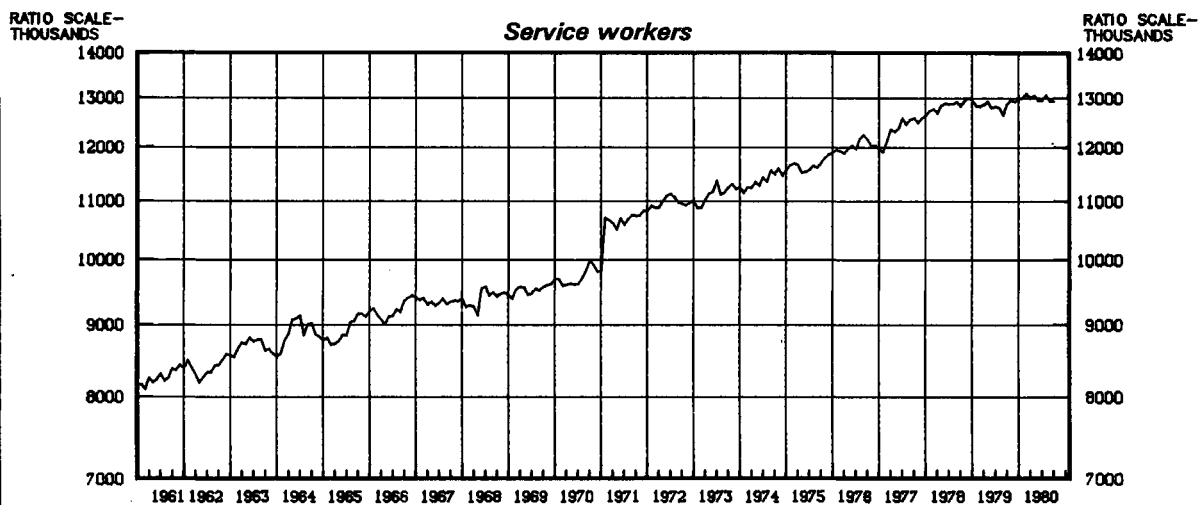
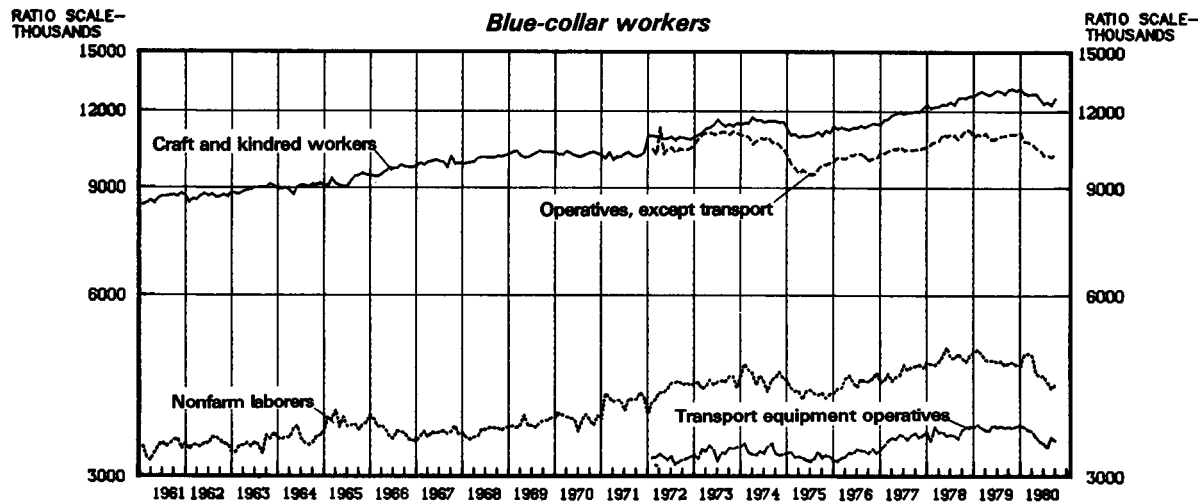
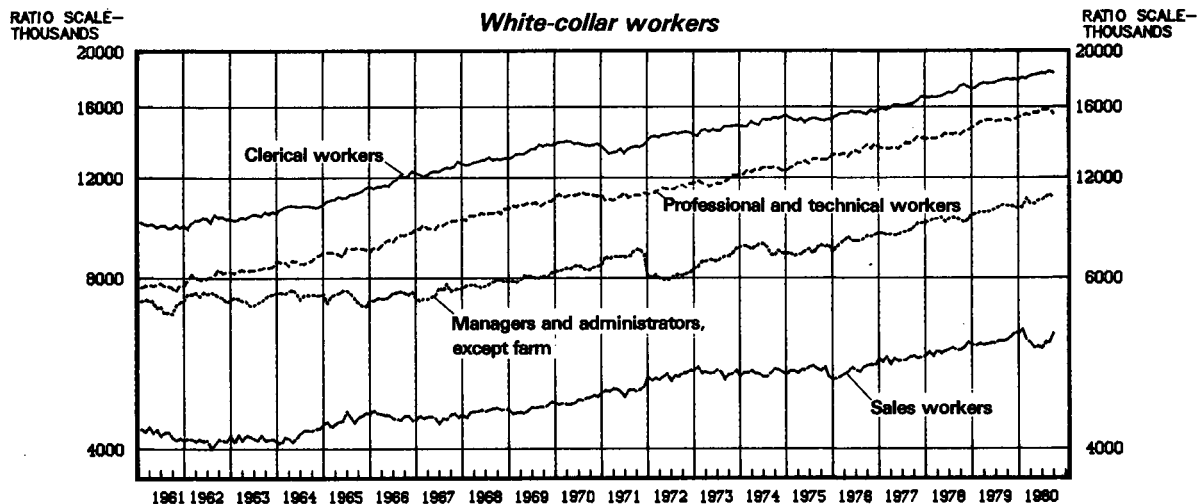
*(Seasonally adjusted)*



SOURCE: Table A-42.

### Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)

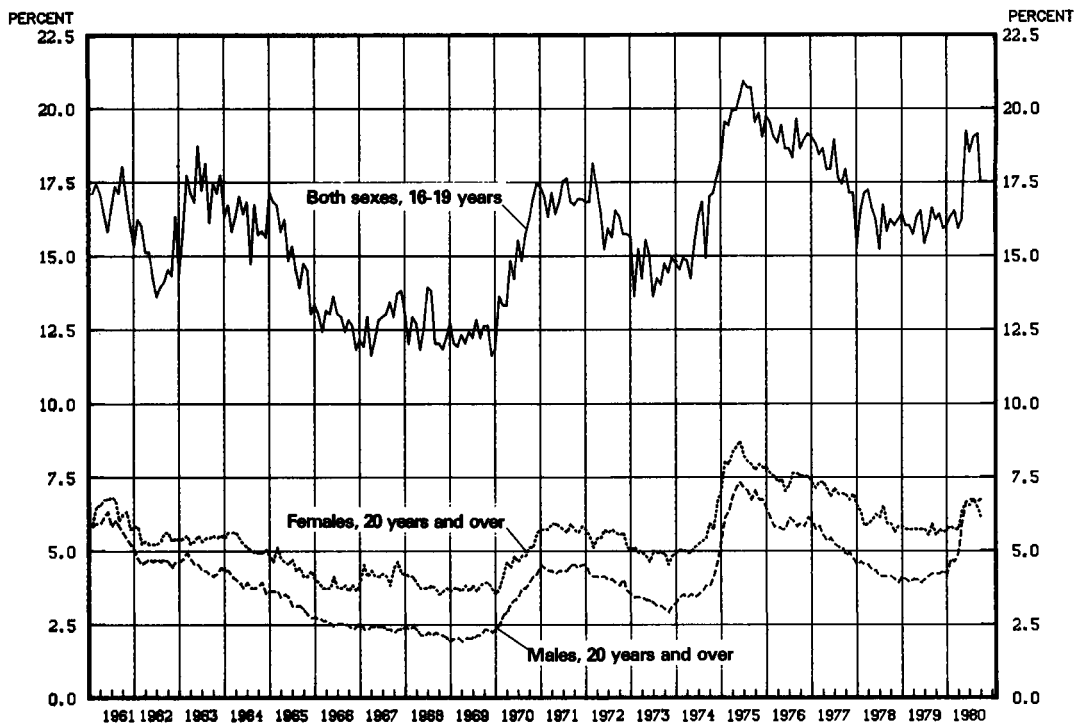


NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

**Chart 10. Unemployment rates by sex and age**

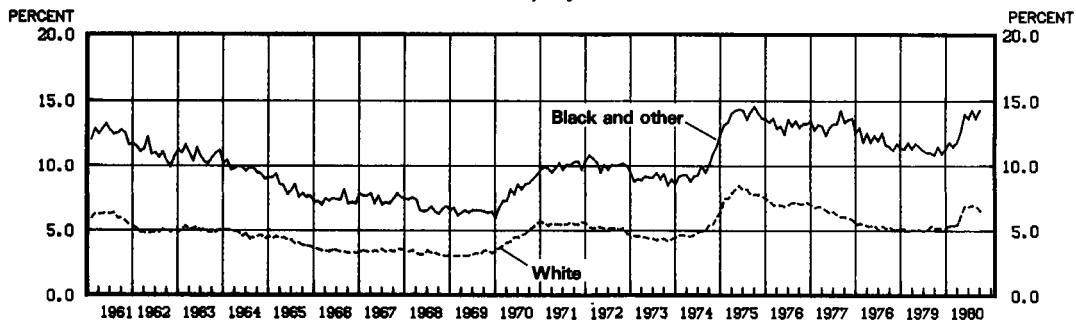
*(Seasonally adjusted)*



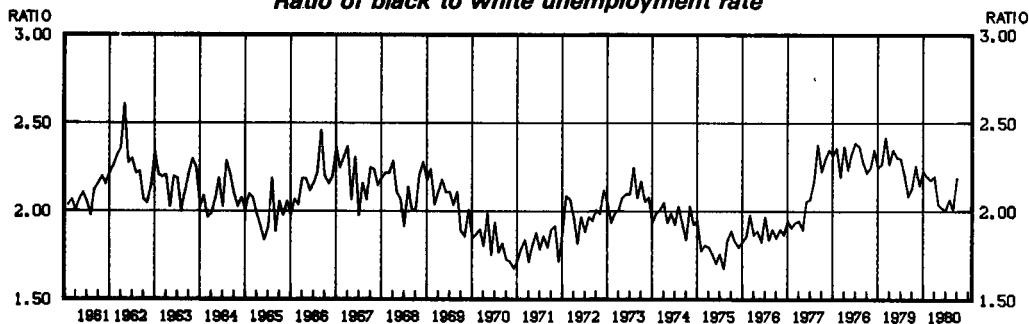
SOURCE: Table A-36.

**Chart 11. Unemployment rates by race**

*(Seasonally adjusted)*

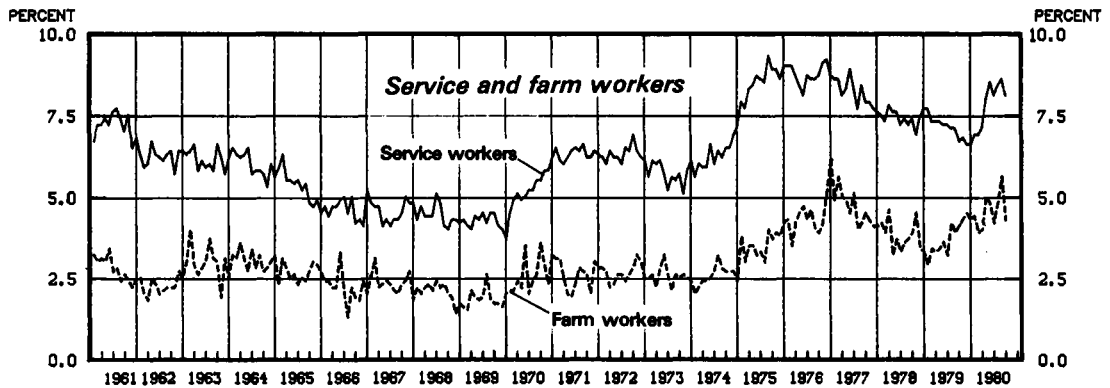
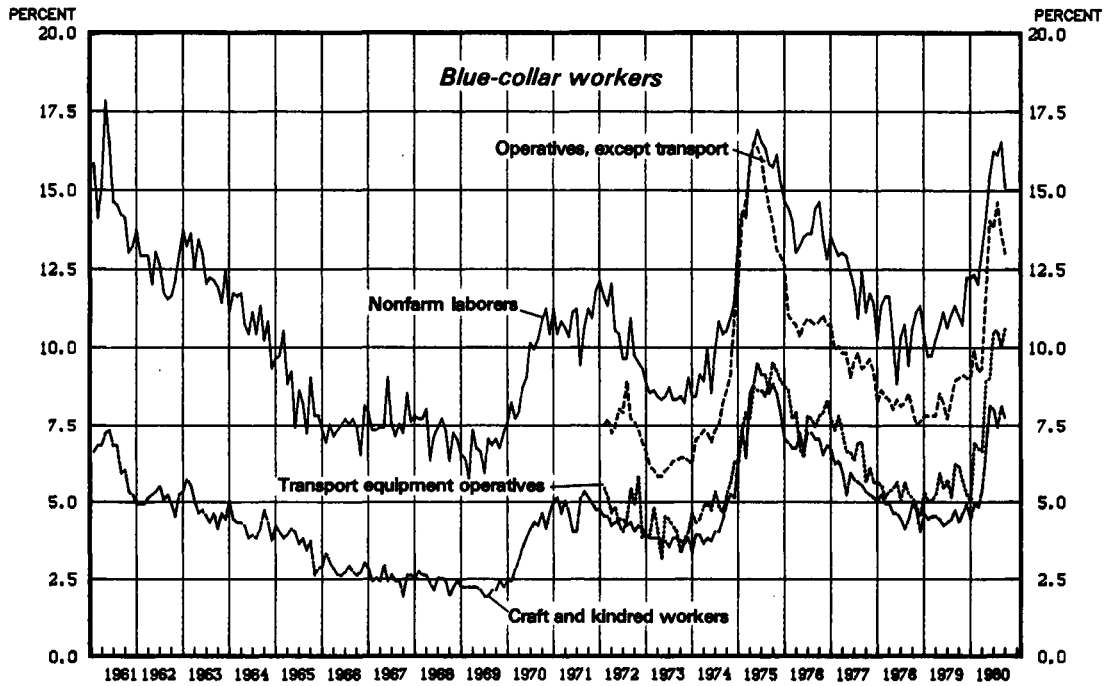
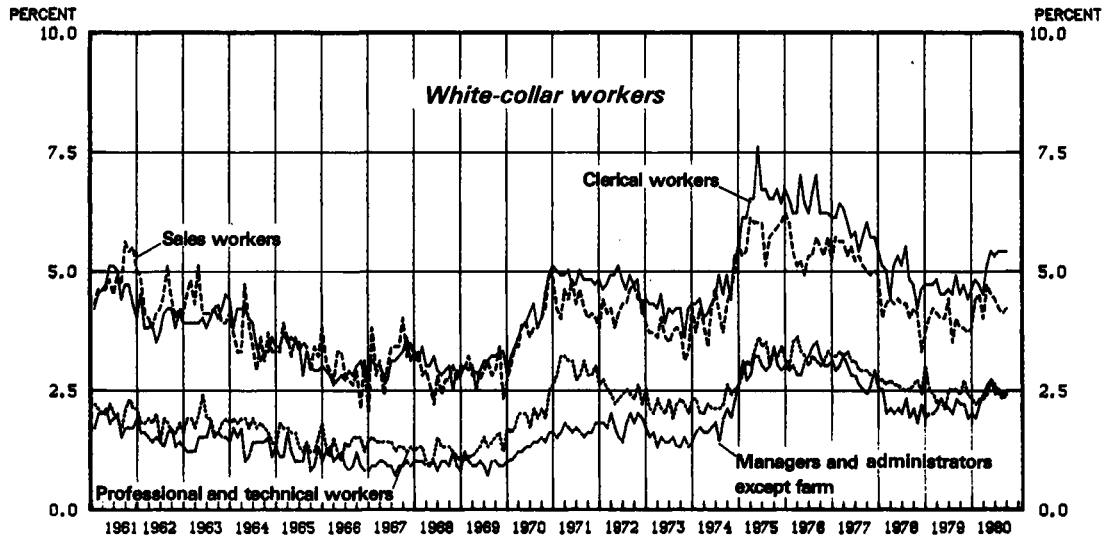


**Ratio of black to white unemployment rate**



SOURCE: Table A-35.

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

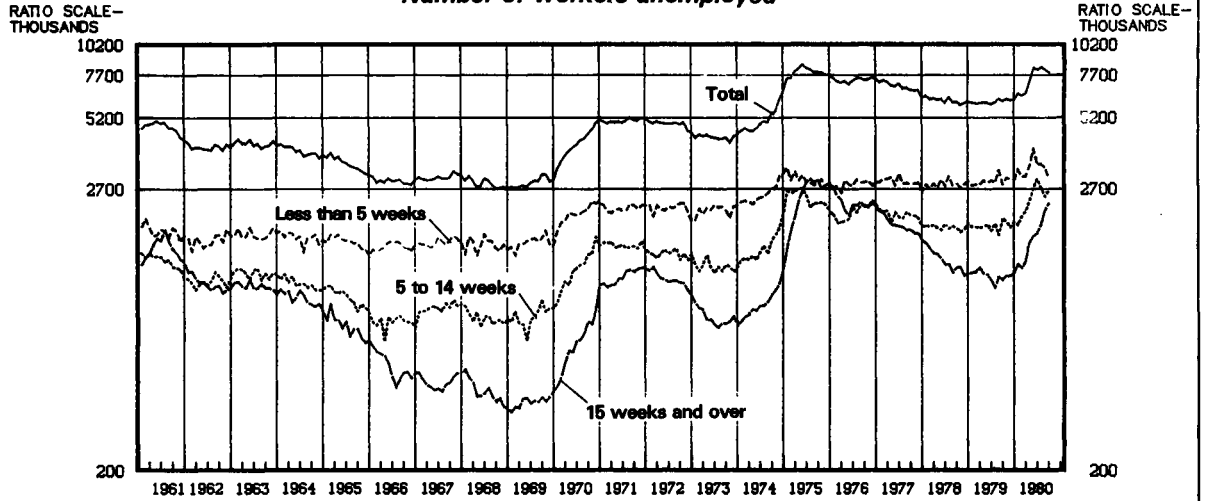


SOURCE: Table A-36.

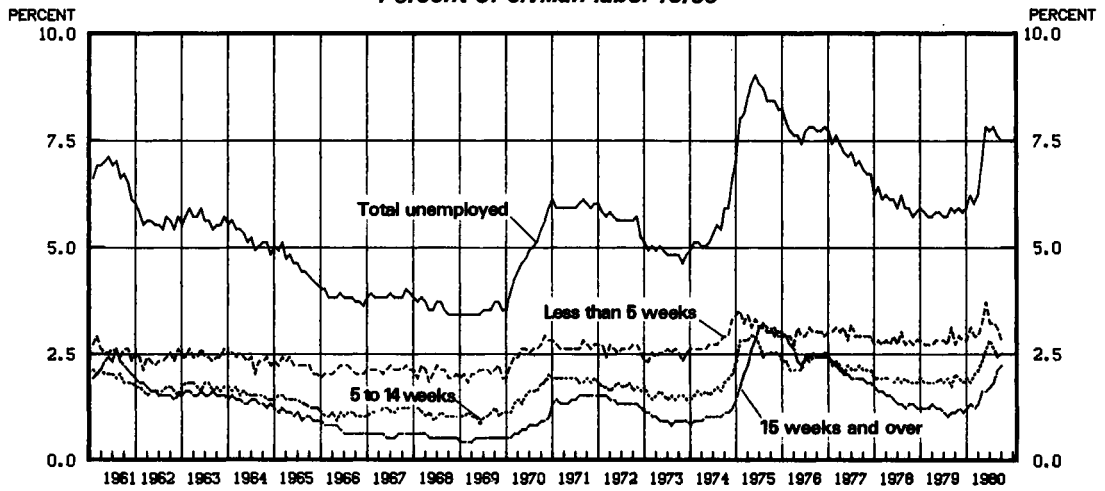
### Chart 13. Duration of unemployment

(Seasonally adjusted)

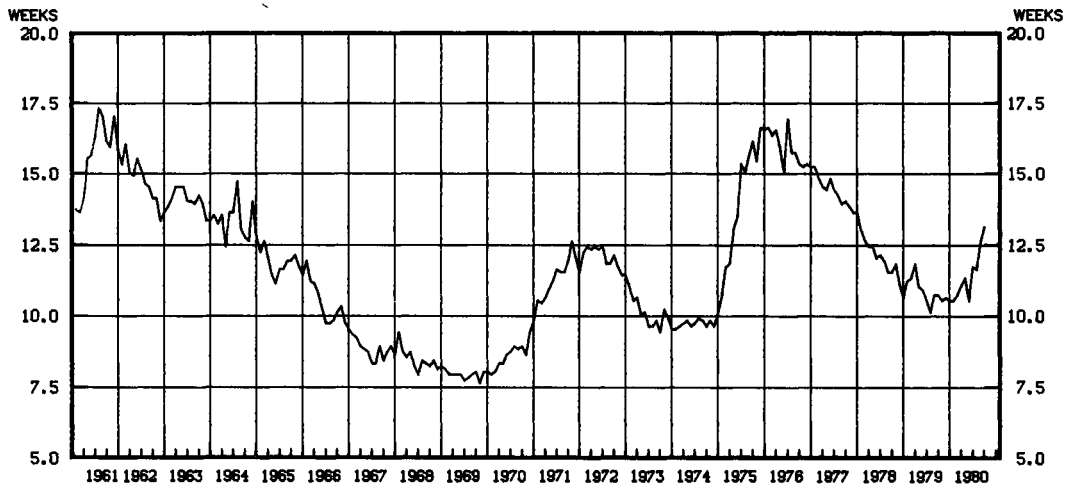
#### Number of workers unemployed



#### Percent of civilian labor force



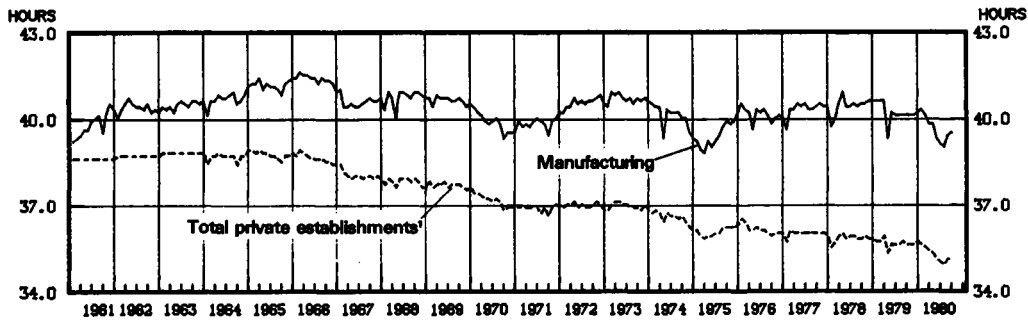
#### Average duration of unemployment



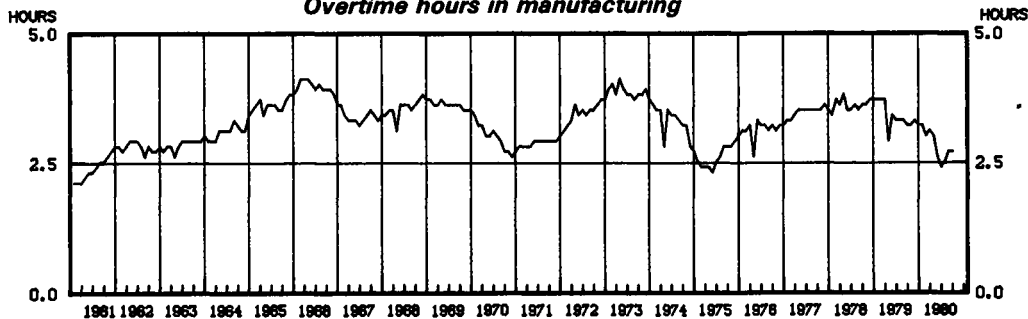
SOURCE: Table A-37.

**Chart 14. Average weekly hours in nonagricultural industries**

*(Seasonally adjusted)*



**Overtime hours in manufacturing**



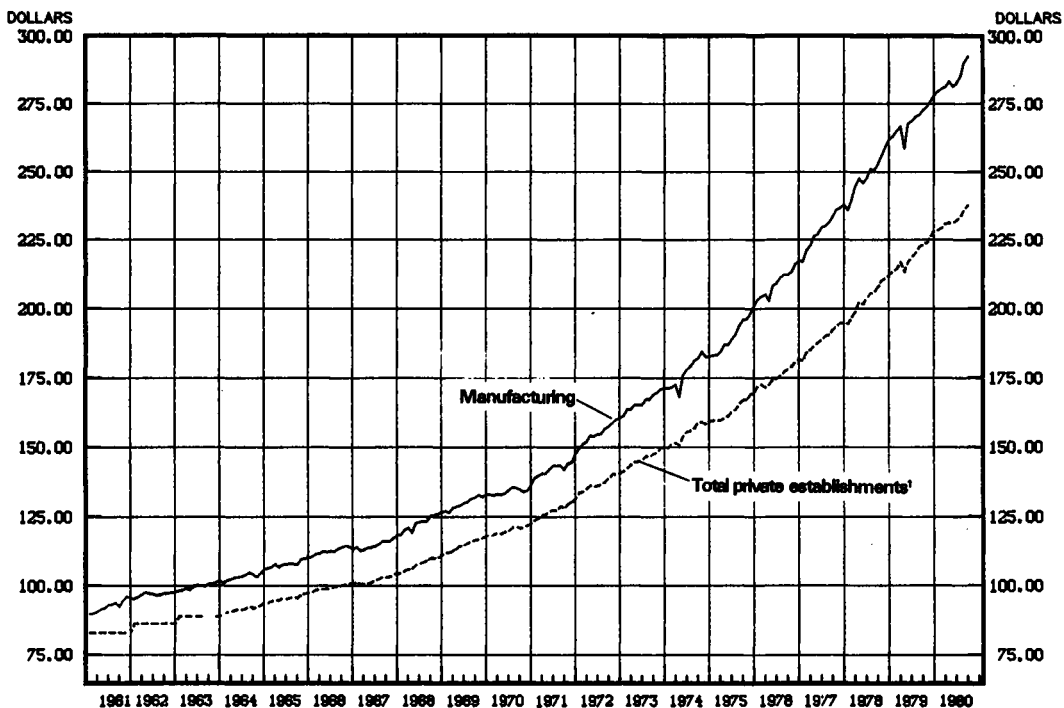
<sup>1</sup>Annual averages prior to 1964.

NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

**Chart 15. Average weekly earnings in nonagricultural industries**

*(Seasonally adjusted)*



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

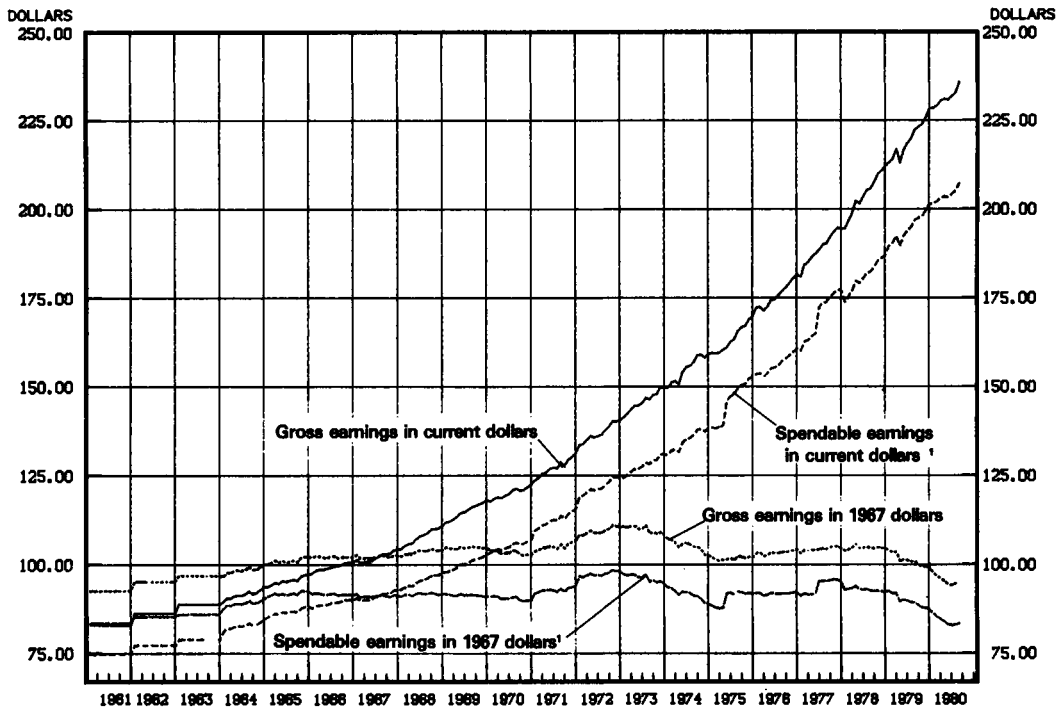
NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.



**Chart 16. Total private gross and spendable weekly earnings**

*(Seasonally adjusted)*



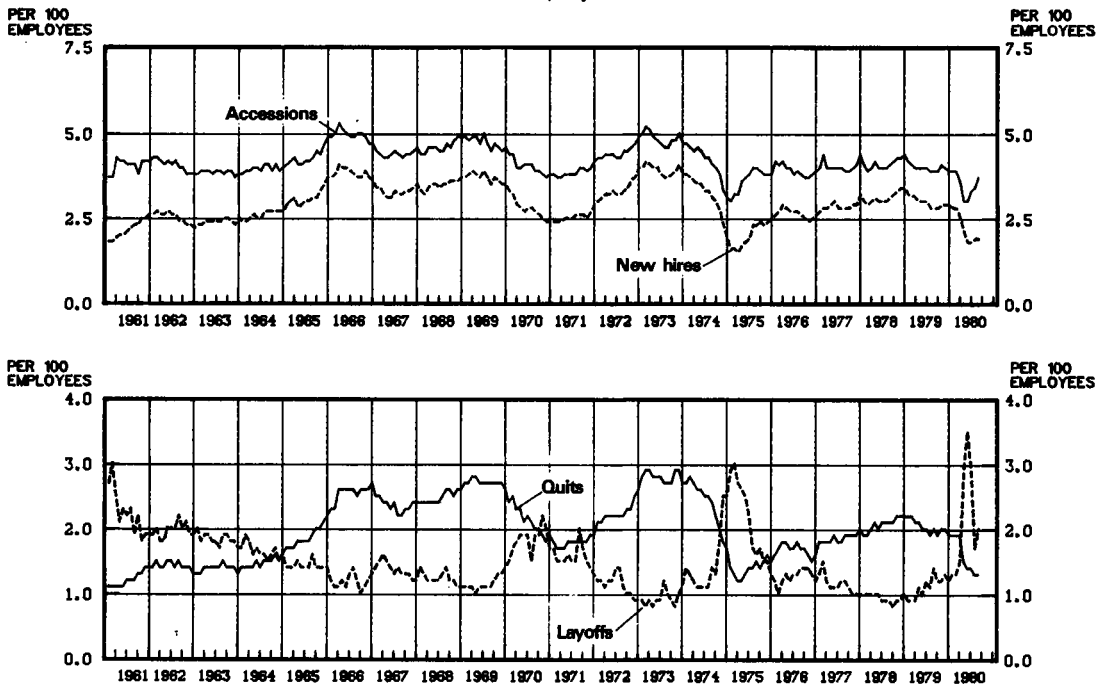
<sup>1</sup> Married worker with three dependents.

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

SOURCE: Table C-9.

**Chart 17. Labor turnover rates in manufacturing**

*(Seasonally adjusted)*



NOTE: Data for current month are preliminary.

SOURCE: Table D-3.

# HOUSEHOLD DATA HISTORICAL

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

(Numbers in thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>Annual averages</b>										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,060	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,963	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,853	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	65,750	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953 <sup>1</sup> .....	110,631	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,953	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.....	117,831	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 <sup>1</sup> .....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962.....	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.....	140,132	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 <sup>1</sup> .....	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973 <sup>1</sup> .....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 <sup>1</sup> .....	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
1979.....	163,620	104,996	64.2	102,908	96,945	3,297	93,648	5,963	5.8	58,623
<b>Monthly data, seasonally adjusted<sup>2</sup></b>										
<b>1979:</b>										
September	164,106	105,506	64.3	103,494	97,504	3,364	94,140	5,990	5.8	58,519
October..	164,458	105,609	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	106,086	64.3	103,999	97,912	3,359	94,553	6,087	5.9	58,810
<b>1980:</b>										
January..	165,131	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....	165,536	106,164	64.2	104,094	97,656	3,358	94,298	6,438	6.2	59,322
April....	165,693	106,511	64.3	104,419	97,154	3,242	93,912	7,265	7.0	59,182
May.....	165,886	107,230	64.6	105,142	96,988	3,379	93,609	8,154	7.8	58,567
June.....	166,135	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
August...	166,578	107,139	64.3	105,025	97,006	3,180	93,826	8,019	7.6	59,439
September	166,789	107,155	64.2	105,034	97,207	3,442	93,765	7,827	7.5	59,633

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

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

# HOUSEHOLD DATA HISTORICAL

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

(Numbers in thousands)

Sex, year, and month	Total nonin- stitutional popu- lation	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of popu- lation	Total	Employed			Unemployed		
					Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
<b>MALES</b>										
Annual averages										
1972 <sup>1</sup> .....	69,864	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,933
1973 <sup>1</sup> .....	71,021	56,479	79.5	54,203	51,963	2,833	49,130	2,240	4.1	14,541
1974.....	72,252	57,349	79.4	55,186	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,494	57,700	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,739	58,357	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,931	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 <sup>1</sup> .....	77,169	60,535	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
1979.....	73,397	61,466	78.4	59,517	56,499	2,645	53,854	3,018	5.1	16,931
Monthly data, seasonally adjusted <sup>2</sup>										
1979:										
September	78,627	61,759	78.5	59,812	56,714	2,677	54,037	3,098	5.2	16,867
October..	73,835	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..	79,039	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	62,002	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
August...	79,798	62,133	77.9	60,182	55,551	2,583	52,967	4,632	7.7	17,665
September	79,897	62,341	78.0	60,383	55,738	2,750	52,988	4,645	7.7	17,556
<b>FEMALES</b>										
Annual averages										
1972 <sup>1</sup> .....	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.6	42,591
1973 <sup>1</sup> .....	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.0	42,681
1974.....	78,574	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,067	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978 <sup>1</sup> .....	83,830	42,002	50.1	41,878	38,882	661	38,221	2,996	7.2	41,887
1979.....	85,223	43,511	51.1	43,391	40,446	652	39,794	2,945	6.8	41,692
Monthly data, seasonally adjusted <sup>2</sup>										
1979:										
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..	85,899	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..	86,132	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	44,813	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.....	86,641	45,051	51.9	44,870	41,367	631	40,736	3,503	7.8	41,650
August...	86,730	45,005	51.9	44,842	41,455	597	40,859	3,387	7.6	41,775
September	86,892	44,814	51.6	44,651	41,469	692	40,776	3,182	7.1	42,077

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

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

# HOUSEHOLD DATA

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

(Numbers in thousands)

Sex, age, and race	September 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					
<b>MALES</b>											
16 years and over	67,858	77.4	59,900	55,853	4,048	6.8	18,039	379	4,339	1,599	11,722
16 to 21 years	9,281	65.5	7,632	6,348	1,284	16.8	4,365	25	3,654	28	657
16 to 19 years	4,838	57.9	4,560	3,724	836	18.3	3,515	17	3,049	11	438
16 to 17 years	1,846	45.1	1,828	1,461	367	20.1	2,249	9	2,045	4	192
18 to 19 years	2,932	70.3	2,732	2,263	469	17.2	1,265	8	1,004	7	246
20 to 64 years	55,144	89.4	53,464	50,303	3,162	5.9	6,518	174	1,290	1,154	3,901
20 to 24 years	3,321	85.8	8,178	7,161	1,017	12.4	1,471	20	963	46	442
25 to 54 years	39,064	94.5	38,129	36,212	1,917	5.0	2,273	93	321	607	1,252
25 to 29 years	8,854	94.8	8,489	7,775	715	8.4	484	15	183	39	247
30 to 34 years	3,249	96.5	7,993	7,581	412	5.2	300	19	66	64	151
35 to 39 years	6,593	96.2	6,393	6,123	271	4.2	263	7	30	71	155
40 to 44 years	5,410	95.4	5,323	5,140	183	3.4	261	11	21	88	141
45 to 49 years	4,972	93.1	4,942	4,739	203	4.1	368	27	18	120	204
50 to 54 years	4,996	89.3	4,909	4,855	134	2.7	596	14	3	224	354
55 to 64 years	7,158	72.1	7,157	6,929	228	3.2	2,775	60	6	502	2,207
55 to 59 years	4,391	81.7	4,390	4,241	149	3.4	983	33	2	270	678
60 to 64 years	2,767	60.7	2,767	2,688	79	2.8	1,792	27	4	232	1,529
65 years and over	1,876	19.0	1,876	1,826	50	2.7	8,006	188	--	434	7,383
65 to 69 years	1,080	20.2	1,080	1,051	29	2.7	2,748	51	--	168	2,530
70 years and over	796	13.1	796	775	21	2.6	5,258	137	--	267	4,854
<b>White</b>											
16 years and over	54,971	78.2	53,355	50,204	3,151	5.9	15,324	299	3,509	1,324	10,192
16 to 21 years	7,226	67.5	6,738	5,756	982	14.6	3,474	13	2,939	26	497
16 to 19 years	4,261	60.5	4,050	3,406	644	15.9	2,783	10	2,420	11	343
16 to 17 years	1,663	48.4	1,648	1,341	307	18.6	1,771	6	1,610	4	151
18 to 19 years	2,598	72.0	2,402	2,064	337	14.0	1,012	4	810	7	192
20 to 64 years	48,897	90.1	47,592	45,122	2,470	5.2	5,366	130	1,089	933	3,213
20 to 24 years	7,697	86.4	7,144	6,360	784	11.0	1,208	11	837	39	321
25 to 54 years	34,666	95.3	33,916	32,426	1,490	4.4	1,727	78	247	474	928
25 to 29 years	15,360	96.2	14,573	13,685	888	6.1	589	26	198	84	280
30 to 34 years	10,683	96.5	10,453	10,121	332	3.2	385	17	34	118	216
35 to 44 years	3,923	92.2	8,890	8,620	270	3.0	753	36	15	271	432
55 to 64 years	6,533	72.9	6,532	6,336	197	3.0	2,432	42	6	421	1,963
55 to 59 years	3,995	82.5	3,994	3,862	132	3.3	846	25	2	227	592
60 to 64 years	2,538	61.6	2,538	2,474	64	2.5	1,585	17	4	193	1,371
65 years and over	1,713	19.3	1,713	1,676	37	2.2	7,174	159	--	380	6,636
<b>Black and other</b>											
16 years and over	6,988	72.0	6,545	5,649	896	13.7	2,715	80	830	275	1,530
16 to 21 years	1,055	54.2	893	591	302	33.8	890	12	716	2	160
16 to 19 years	577	44.1	510	318	192	37.6	732	7	629	--	95
16 to 17 years	133	27.7	181	120	61	33.6	478	3	435	--	41
18 to 19 years	394	60.9	330	198	131	39.8	253	4	195	--	54
20 to 64 years	6,248	84.4	5,872	5,181	692	11.8	1,153	44	201	221	688
20 to 24 years	1,225	82.3	1,034	801	233	22.6	263	10	126	7	120
25 to 54 years	4,398	89.0	4,213	3,786	427	10.1	546	15	74	133	324
25 to 29 years	2,043	91.3	1,909	1,671	238	12.5	196	9	51	18	118
30 to 34 years	1,309	90.4	1,263	1,141	122	9.7	139	1	17	41	80
35 to 44 years	1,045	83.2	1,041	974	67	6.4	211	5	6	74	126
55 to 64 years	625	64.5	625	594	31	5.0	344	18	--	81	244
55 to 59 years	396	74.3	396	379	17	4.3	137	8	--	43	86
60 to 64 years	229	52.5	229	214	14	6.3	207	11	--	38	158
65 years and over	163	16.4	163	150	13	7.8	831	29	--	54	747

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

(Numbers in thousands)

Sex, age, and race	September 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					
<b>FEMALES</b>											
16 years and over	44,993	51.8	44,820	41,404	3,416	7.6	41,909	31,557	4,226	963	5,162
16 to 21 years	7,017	56.7	6,952	5,875	1,077	15.5	5,359	1,327	3,552	14	467
16 to 19 years	4,133	51.4	4,164	3,414	750	18.0	3,966	652	2,991	9	314
16 to 17 years	1,660	41.9	1,659	1,356	303	18.2	2,300	168	1,998	4	130
18 to 19 years	2,533	60.3	2,505	2,058	448	17.9	1,666	485	993	5	183
20 to 64 years	39,648	61.4	39,513	36,893	2,631	6.7	24,965	21,174	1,231	443	2,117
20 to 24 years	7,211	69.5	7,131	6,359	772	10.8	3,171	2,022	827	16	305
25 to 54 years	27,815	64.5	27,760	26,044	1,716	6.2	15,314	13,708	386	232	987
25 to 29 years	6,402	67.3	6,363	5,849	514	8.1	3,117	2,734	148	26	209
30 to 34 years	5,609	63.9	5,598	5,215	382	6.8	3,165	2,859	117	31	158
35 to 39 years	4,727	65.7	4,724	4,427	297	6.3	2,466	2,256	69	27	114
40 to 44 years	3,994	66.3	3,992	3,791	202	5.1	2,028	1,858	26	35	109
45 to 49 years	3,501	62.1	3,500	3,336	165	4.7	2,133	1,930	16	45	142
50 to 54 years	2,582	58.3	2,582	2,426	156	4.4	2,405	2,070	9	69	256
55 to 64 years	4,622	41.6	4,622	4,480	143	3.1	6,480	5,443	18	194	824
55 to 59 years	2,870	48.5	2,870	2,775	95	3.3	3,043	2,601	15	103	325
60 to 64 years	1,752	33.9	1,752	1,705	47	2.7	3,437	2,843	3	92	500
65 years and over	1,142	8.1	1,142	1,107	35	3.1	12,977	9,731	4	511	2,731
65 to 69 years	721	15.1	721	694	28	3.8	4,051	3,202	--	117	733
70 years and over	421	4.5	421	413	8	1.8	8,926	6,530	4	395	1,998
<b>White</b>											
16 years and over	33,377	51.5	33,756	36,125	2,631	6.8	36,616	28,129	3,341	775	4,370
16 to 21 years	5,200	59.7	6,153	5,338	815	13.2	4,186	1,030	2,828	12	316
16 to 19 years	3,745	54.8	3,724	3,158	567	15.2	3,090	501	2,368	8	213
16 to 17 years	1,512	45.8	1,511	1,277	234	15.5	1,791	119	1,582	4	86
18 to 19 years	2,332	63.2	2,213	1,880	333	15.0	1,299	381	786	4	127
20 to 64 years	34,117	61.1	34,017	31,982	2,035	6.0	21,762	18,707	970	344	1,741
20 to 24 years	6,215	71.0	6,157	5,584	573	9.3	2,539	1,661	652	13	214
25 to 54 years	23,317	64.1	23,776	22,429	1,346	5.7	13,356	12,083	301	170	801
25 to 29 years	10,167	65.1	10,130	9,447	682	6.7	5,451	4,919	200	45	287
30 to 34 years	7,483	65.6	7,484	7,088	396	5.3	3,923	3,625	78	45	175
35 to 44 years	6,163	60.7	6,162	5,894	268	4.3	3,982	3,538	24	81	340
55 to 64 years	4,685	41.0	4,684	3,968	116	2.9	5,866	4,963	16	161	725
55 to 59 years	2,536	48.0	2,536	2,456	80	3.2	2,751	2,378	14	90	270
60 to 64 years	1,549	33.2	1,549	1,512	36	2.3	3,115	2,585	3	71	456
65 years and over	1,015	7.9	1,015	985	30	2.9	11,764	8,922	3	422	2,417
<b>Black and other</b>											
16 years and over	6,106	53.6	6,063	5,279	785	12.9	5,293	3,428	885	189	792
16 to 21 years	817	41.1	799	537	262	32.8	1,173	297	723	2	151
16 to 19 years	448	33.8	440	256	184	41.8	876	152	622	1	101
16 to 17 years	140	32.5	147	79	68	46.4	509	49	416	--	45
18 to 19 years	381	45.0	293	177	115	39.4	367	103	207	1	56
20 to 64 years	5,531	63.3	5,496	4,901	595	10.8	3,204	2,467	261	99	377
20 to 24 years	995	61.2	974	775	199	20.5	632	362	175	3	91
25 to 54 years	3,990	67.1	3,984	3,614	370	9.3	1,957	1,625	84	62	187
25 to 29 years	1,844	68.9	1,831	1,617	214	11.7	831	674	64	12	80
30 to 34 years	1,233	68.4	1,232	1,130	102	8.3	571	489	17	17	48
35 to 44 years	920	62.3	920	867	53	5.8	556	462	2	34	58
55 to 64 years	538	46.7	538	512	26	4.9	614	480	2	33	99
55 to 59 years	334	53.3	334	319	15	4.5	293	223	2	13	55
60 to 64 years	204	38.8	204	193	11	5.5	322	257	--	20	44
65 years and over	127	9.5	127	121	6	4.6	1,213	809	1	89	314

# 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	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
<b>MALES</b>								
16 years and over	61,531	61,858	78.3	77.4	59,583	59,900	77.7	76.9
16 to 19 years	5,055	4,838	60.0	57.9	4,788	4,560	58.7	56.5
16 to 17 years	2,055	1,846	49.4	45.1	2,035	1,828	49.2	44.8
18 to 19 years	3,000	2,992	70.3	70.3	2,753	2,732	68.5	68.3
20 to 24 years	3,992	8,921	87.5	85.8	8,242	8,178	86.5	84.8
25 to 54 years	33,309	39,064	94.7	94.5	37,378	38,129	94.6	94.4
25 to 34 years	10,556	17,104	95.8	95.6	15,936	16,482	95.6	95.5
35 to 44 years	11,703	11,992	96.1	95.8	11,423	11,716	96.0	95.7
45 to 54 years	10,057	9,968	91.4	91.2	10,019	9,931	91.4	91.1
55 to 64 years	7,198	7,158	73.4	72.1	7,196	7,157	73.4	72.1
55 to 59 years	4,470	4,391	83.3	81.7	4,469	4,390	83.3	81.7
60 to 64 years	2,727	2,767	61.4	60.7	2,727	2,767	61.4	60.7
65 years and over	1,979	1,976	20.5	19.0	1,979	1,876	20.5	19.0
<b>White</b>								
16 years and over	54,032	54,971	78.9	78.2	53,102	53,355	78.5	77.7
16 to 19 years	4,519	4,261	63.4	60.5	4,318	4,050	62.4	59.3
16 to 17 years	1,887	1,663	53.9	48.4	1,872	1,648	53.8	48.2
18 to 19 years	2,633	2,598	72.6	72.0	2,446	2,402	71.1	70.4
20 to 24 years	7,787	7,697	88.2	86.4	7,217	7,144	87.3	85.5
25 to 54 years	24,006	34,666	95.3	95.3	33,252	33,916	95.2	95.2
25 to 34 years	14,593	15,060	96.3	96.2	14,104	14,573	96.2	96.1
35 to 44 years	10,404	10,683	96.5	96.5	10,170	10,453	96.5	96.4
45 to 54 years	9,012	8,923	92.3	92.2	8,978	8,890	92.3	92.2
55 to 64 years	6,531	6,533	73.7	72.9	6,529	6,532	73.7	72.9
55 to 59 years	4,047	3,995	83.7	82.5	4,046	3,994	83.7	82.5
60 to 64 years	2,483	2,538	61.6	61.6	2,483	2,538	61.6	61.6
65 years and over	1,787	1,713	20.6	19.3	1,787	1,713	20.6	19.3
<b>Black and other</b>								
16 years and over	6,899	6,988	73.2	72.0	6,481	6,545	72.0	70.7
16 to 19 years	533	577	41.2	44.1	471	510	38.2	41.1
16 to 17 years	166	183	25.2	27.7	163	181	24.9	27.4
18 to 19 years	367	394	57.7	60.9	308	330	53.3	56.6
20 to 24 years	1,206	1,225	83.2	82.3	1,025	1,034	80.8	79.7
25 to 54 years	4,301	4,398	90.2	89.0	4,126	4,213	89.9	88.5
25 to 34 years	1,357	2,043	92.2	91.3	1,832	1,909	91.8	90.7
35 to 44 years	1,296	1,309	92.6	90.4	1,253	1,263	92.4	90.1
45 to 54 years	1,045	1,045	84.1	83.2	1,041	1,041	84.0	83.1
55 to 64 years	667	625	70.6	64.5	667	625	70.6	64.5
55 to 59 years	423	396	79.7	74.3	423	396	79.7	74.3
60 to 64 years	244	229	59.0	52.5	244	229	59.0	52.5
65 years and over	192	163	19.9	16.4	192	163	19.9	16.4

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
<b>FEMALES</b>								
16 years and over . . . . .	43,935	44,983	51.4	51.8	43,790	44,820	51.3	51.7
16 to 19 years . . . . .	4,270	4,193	51.9	51.4	4,247	4,164	51.7	51.2
16 to 17 years . . . . .	1,705	1,660	42.4	41.9	1,704	1,659	42.4	41.9
18 to 19 years . . . . .	2,565	2,533	60.9	60.3	2,543	2,505	60.7	60.1
20 to 24 years . . . . .	7,152	7,211	69.7	69.5	7,079	7,131	69.4	69.2
25 to 54 years . . . . .	26,818	27,815	63.5	64.5	26,770	27,760	63.5	64.4
25 to 34 years . . . . .	11,486	12,011	65.1	65.7	11,442	11,961	65.0	65.6
35 to 44 years . . . . .	3,387	3,721	65.3	66.0	3,383	3,716	65.2	66.0
45 to 54 years . . . . .	6,946	7,083	59.3	61.0	6,945	7,083	59.3	60.9
55 to 64 years . . . . .	4,592	4,622	41.9	41.6	4,592	4,622	41.9	41.6
55 to 59 years . . . . .	2,879	2,870	48.9	48.5	2,879	2,870	48.9	48.5
60 to 64 years . . . . .	1,713	1,752	33.8	33.8	1,713	1,752	33.8	33.8
65 years and over . . . . .	1,102	1,142	8.0	8.1	1,102	1,142	8.0	8.1
<b>White</b>								
16 years and over . . . . .	38,026	38,877	51.1	51.5	37,909	38,756	51.0	51.4
16 to 19 years . . . . .	3,922	3,745	55.3	54.8	3,804	3,724	55.1	54.7
16 to 17 years . . . . .	1,551	1,512	46.0	45.8	1,550	1,511	46.0	45.8
18 to 19 years . . . . .	2,272	2,232	64.0	63.2	2,255	2,213	63.8	63.0
20 to 24 years . . . . .	6,132	6,215	70.7	71.0	6,076	6,157	70.5	70.8
25 to 54 years . . . . .	22,995	23,817	63.0	64.1	22,958	23,776	63.0	64.0
25 to 34 years . . . . .	9,699	10,167	64.2	65.1	9,666	10,130	64.1	65.0
35 to 44 years . . . . .	7,223	7,488	65.0	65.6	7,220	7,484	65.0	65.6
45 to 54 years . . . . .	6,073	6,163	59.2	60.7	6,072	6,162	59.2	60.7
55 to 64 years . . . . .	4,104	4,085	41.7	41.0	4,104	4,084	41.7	41.0
55 to 59 years . . . . .	2,571	2,536	48.8	48.0	2,571	2,536	48.8	48.0
60 to 64 years . . . . .	1,533	1,549	33.6	33.2	1,533	1,549	33.6	33.2
65 years and over . . . . .	966	1,015	7.7	7.9	966	1,015	7.7	7.9
<b>Black and other</b>								
16 years and over . . . . .	5,915	6,106	53.5	53.6	5,881	6,063	53.3	53.4
16 to 19 years . . . . .	446	448	34.0	33.8	442	440	33.7	33.4
16 to 17 years . . . . .	155	148	23.6	22.5	154	147	23.6	22.4
18 to 19 years . . . . .	293	301	44.3	45.0	288	293	43.9	44.4
20 to 24 years . . . . .	1,020	995	64.1	61.2	1,003	974	63.7	60.7
25 to 54 years . . . . .	3,824	3,998	66.6	67.1	3,813	3,984	66.5	67.1
25 to 34 years . . . . .	1,787	1,844	70.2	68.9	1,776	1,831	70.1	68.8
35 to 44 years . . . . .	1,164	1,233	66.8	68.4	1,163	1,232	66.8	68.3
45 to 54 years . . . . .	873	920	59.9	62.3	873	920	59.9	62.3
55 to 64 years . . . . .	488	538	43.6	46.7	488	538	43.6	46.7
55 to 59 years . . . . .	307	334	49.7	53.3	307	334	49.7	53.3
60 to 64 years . . . . .	196	204	36.1	38.8	180	204	36.1	38.8
65 years and over . . . . .	136	127	10.5	9.5	136	127	10.5	9.5

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

[Numbers in thousands]

Sex and age	September 1980						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
<b>TOTAL</b>							
16 years and over .....	10,591	9,080	196	8,884	1,511	14.3	6,923
16 to 19 years .....	302	450	26	434	342	42.7	1,437
18 to 17 years .....	271	163	15	148	108	39.8	888
18 to 19 years .....	531	296	11	286	234	44.1	549
20 to 24 years .....	1,721	1,326	24	1,303	394	22.9	750
25 to 54 years .....	6,828	6,122	99	6,023	705	10.3	2,091
25 to 34 years .....	3,101	2,705	35	2,670	396	12.8	821
35 to 44 years .....	2,092	1,891	35	1,856	201	9.6	606
45 to 54 years .....	1,634	1,526	30	1,497	108	6.6	664
55 to 64 years .....	995	944	28	915	52	5.2	857
55 to 59 years .....	620	592	8	584	28	4.4	376
60 to 64 years .....	375	352	20	332	24	6.4	481
65 years and over .....	245	228	20	208	17	6.9	1,787
<b>Males</b>							
16 years and over .....	5,483	4,673	169	4,503	811	14.8	2,362
16 to 19 years .....	430	257	25	232	174	40.5	650
18 to 17 years .....	151	99	14	85	52	34.4	426
18 to 19 years .....	280	157	11	146	122	43.6	224
20 to 24 years .....	884	669	22	648	213	24.1	209
25 to 54 years .....	3,510	3,127	80	3,047	382	10.9	475
25 to 34 years .....	1,577	1,370	31	1,339	207	13.1	157
35 to 44 years .....	1,065	951	22	929	114	10.7	121
45 to 54 years .....	360	306	28	278	61	7.0	197
55 to 64 years .....	530	502	24	477	30	5.7	313
55 to 59 years .....	334	319	8	311	15	4.5	124
60 to 64 years .....	190	183	16	167	14	7.1	189
65 years and over .....	129	118	19	99	11	8.5	714
<b>Females</b>							
16 years and over .....	5,108	4,407	27	4,381	700	13.7	4,561
16 to 19 years .....	372	203	1	202	168	45.3	787
18 to 17 years .....	120	64	1	63	56	46.9	462
18 to 19 years .....	251	139	--	140	112	44.5	325
20 to 24 years .....	337	657	2	655	181	21.6	541
25 to 54 years .....	3,318	2,995	19	2,976	323	9.7	1,616
25 to 34 years .....	1,524	1,335	4	1,331	189	12.4	664
35 to 44 years .....	1,027	940	13	927	87	8.4	485
45 to 54 years .....	763	720	2	719	47	6.2	467
55 to 64 years .....	465	442	4	438	22	4.8	544
55 to 59 years .....	286	273	--	273	13	4.4	252
60 to 64 years .....	179	169	4	165	10	5.5	292
65 years and over .....	116	110	1	109	6	5.0	1,073

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



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

[Numbers in thousands]

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 16-19 years	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
<b>TOTAL</b>								
Total noninstitutional population	164,106	166,789	70,205	71,544	77,245	78,732	16,655	16,512
Total labor force	105,466	106,841	56,478	57,020	39,664	40,790	9,323	9,031
Percent of population	64.3	64.1	80.4	79.7	51.3	51.8	56.0	54.7
Civilian labor force	103,373	104,720	54,795	55,340	39,543	40,655	9,035	8,724
Employed	97,576	97,256	52,835	52,129	37,217	37,990	7,524	7,138
Agriculture	3,545	3,635	2,498	2,525	678	662	369	448
Nonagricultural industries	94,030	93,621	50,337	49,603	36,538	37,328	7,155	6,690
Unemployed	5,798	7,464	1,960	3,212	2,327	2,666	1,511	1,586
Percent of labor force	5.6	7.1	3.6	5.8	5.9	6.6	16.7	18.2
Not in labor force	58,640	59,948	13,727	14,524	37,581	37,942	7,332	7,481
<b>White</b>								
Total noninstitutional population	143,621	145,687	62,081	63,150	67,498	68,658	14,042	13,879
Total labor force	92,652	93,747	50,112	50,610	34,198	35,132	8,342	8,006
Percent of population	64.5	64.3	80.7	80.1	50.7	51.2	59.4	57.7
Civilian labor force	91,012	92,111	48,785	49,305	34,105	35,032	8,122	7,774
Employed	86,481	86,329	47,234	46,798	32,333	32,967	6,914	6,563
Agriculture	3,221	3,368	2,237	2,328	641	621	343	419
Nonagricultural industries	83,260	82,960	44,997	44,471	31,693	32,346	6,571	6,144
Unemployed	4,531	5,782	1,551	2,507	1,772	2,065	1,208	1,211
Percent of labor force	5.0	6.3	3.2	5.1	5.2	5.9	14.9	15.6
Not in labor force	50,969	51,939	11,969	12,540	33,300	33,526	5,701	5,873
<b>Black and other</b>								
Total noninstitutional population	20,484	21,102	8,124	8,394	9,747	10,075	2,613	2,634
Total labor force	12,814	13,094	6,366	6,411	5,467	5,658	981	1,026
Percent of population	62.6	62.1	78.4	76.4	56.1	56.2	37.6	38.9
Civilian labor force	12,362	12,609	6,010	6,035	5,438	5,623	913	950
Employed	11,094	10,928	5,601	5,331	4,883	5,022	610	575
Agriculture	324	267	261	198	38	41	26	28
Nonagricultural industries	10,770	10,661	5,340	5,133	4,846	4,982	584	546
Unemployed	1,267	1,681	410	705	555	601	303	376
Percent of labor force	10.3	13.3	6.8	11.7	10.2	10.7	33.2	39.5
Not in labor force	7,671	8,008	1,759	1,984	4,281	4,417	1,631	1,608

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

(Numbers in thousands)

Employment status and major activity	September 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
<b>TOTAL</b>									
Total noninstitutional population .....	25,021	12,645	12,376	21,087	10,701	10,386	3,934	1,945	1,989
Total labor force .....	15,298	8,281	7,017	13,426	7,226	6,200	1,871	1,055	817
Percent of population .....	61.1	65.5	56.7	63.7	67.5	59.7	47.6	54.2	41.1
Civilian labor force .....	14,584	7,632	6,952	12,892	6,738	6,153	1,692	893	799
Employed .....	12,223	6,348	5,875	11,095	5,756	5,338	1,428	591	537
Agriculture .....	624	516	108	582	479	103	42	37	5
Nonagricultural industries .....	11,599	5,832	5,767	10,513	5,277	5,235	1,086	555	532
Unemployed .....	2,361	1,284	1,077	1,797	982	815	564	302	262
Looking for full-time work .....	1,466	824	642	1,074	606	468	392	219	173
Looking for part-time work .....	895	459	436	724	377	347	172	83	89
Percent of labor force .....	16.2	16.8	15.5	13.9	14.6	13.2	33.3	33.8	32.8
Not in labor force .....	9,724	4,365	5,359	7,661	3,474	4,186	2,063	890	1,173
<b>Major activity: going to school</b>									
Civilian labor force .....	3,798	1,926	1,372	3,468	1,761	1,707	330	165	165
Employed .....	2,970	1,487	1,482	2,806	1,400	1,406	164	87	76
Agriculture .....	186	154	32	176	147	29	11	7	3
Nonagricultural industries .....	2,783	1,333	1,450	2,630	1,253	1,377	153	80	73
Unemployed .....	829	439	390	662	361	301	167	78	89
Looking for full-time work .....	83	39	44	58	29	28	25	9	16
Looking for part-time work .....	746	400	346	604	331	273	142	69	73
Percent of labor force .....	21.8	22.8	20.8	19.1	20.5	17.6	50.5	47.1	53.8
Not in labor force .....	7,206	3,654	3,552	5,767	2,939	2,828	1,439	716	723
<b>Major activity: other</b>									
Civilian labor force .....	10,786	5,706	5,080	9,424	4,978	4,446	1,362	728	634
Employed .....	9,253	4,860	4,393	8,289	4,356	3,932	965	504	460
Agriculture .....	438	362	76	406	332	74	31	30	2
Nonagricultural industries .....	8,816	4,499	4,317	7,882	4,024	3,858	933	475	459
Unemployed .....	1,533	845	687	1,135	621	514	397	224	174
Looking for full-time work .....	1,383	786	598	1,016	576	440	367	209	158
Looking for part-time work .....	149	60	90	119	45	74	30	14	16
Percent of labor force .....	14.2	14.8	13.5	12.0	12.5	11.6	29.2	30.7	27.4
Not in labor force .....	2,517	710	1,807	1,894	536	1,358	624	174	449

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

(Numbers in thousands)

Sex, age, and race	September 1980								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time <sup>1</sup>	Unemployed (looking for part-time work)	
		Full-time schedules <sup>1</sup>	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
<b>TOTAL</b>									
Both sexes, 16 years and over.....	85,574	79,547	4,030	5,997	6.7	15,146	13,680	1,467	9.7
16 to 21 years.....	3,284	6,794	1,024	1,466	15.8	5,300	4,405	895	16.9
16 to 19 years.....	4,474	2,995	636	842	18.8	4,251	3,506	744	17.5
16 to 17 years.....	768	414	161	193	25.2	2,719	2,243	476	17.5
18 to 19 years.....	3,706	2,582	476	649	17.5	1,531	1,263	268	17.5
20 years and over.....	45,100	76,551	3,394	5,155	6.1	10,896	10,173	722	6.6
20 to 24 years.....	13,316	10,927	850	1,539	11.6	1,993	1,743	250	12.5
25 years and over.....	71,784	65,624	2,544	3,616	5.0	8,902	8,430	472	5.3
25 to 54 years.....	59,837	54,580	2,045	3,261	5.4	6,002	5,631	371	6.2
55 years and over.....	11,897	11,044	499	354	3.0	2,901	2,799	101	3.5
<b>Males, 16 years and over.....</b>	<b>55,145</b>	<b>49,777</b>	<b>1,899</b>	<b>3,469</b>	<b>6.3</b>	<b>4,756</b>	<b>4,177</b>	<b>578</b>	<b>12.2</b>
16 to 21 years.....	5,084	3,779	480	824	16.2	2,548	2,088	459	18.0
16 to 19 years.....	2,430	1,711	319	449	18.1	2,080	1,693	386	18.6
20 years and over.....	52,665	48,066	1,579	3,020	5.7	2,676	2,484	192	7.2
20 to 24 years.....	1,392	6,075	409	908	12.3	786	677	109	13.8
25 years and over.....	44,274	41,991	1,171	2,112	4.7	1,889	1,806	83	4.4
25 to 54 years.....	37,459	34,649	934	1,876	5.0	671	631	41	6.1
55 years and over.....	7,815	7,342	237	236	3.0	1,218	1,176	42	3.4
<b>Females, 16 years and over.....</b>	<b>34,429</b>	<b>29,770</b>	<b>2,131</b>	<b>2,528</b>	<b>7.3</b>	<b>10,391</b>	<b>9,502</b>	<b>888</b>	<b>8.6</b>
16 to 21 years.....	4,200	3,015	544	642	15.3	2,752	2,317	436	15.8
16 to 19 years.....	1,994	1,284	317	393	19.7	2,171	1,813	358	16.5
20 years and over.....	32,435	28,486	1,814	2,135	6.6	8,220	7,689	531	6.5
20 to 24 years.....	5,924	4,852	441	630	10.6	1,207	1,066	142	11.7
25 years and over.....	26,510	23,633	1,373	1,505	5.7	7,012	6,625	390	5.6
25 to 54 years.....	22,426	19,931	1,112	1,385	6.2	5,330	5,001	330	6.2
55 years and over.....	4,082	3,702	262	120	2.9	1,682	1,623	59	3.5
<b>White</b>									
<b>Males, 16 years and over.....</b>	<b>49,049</b>	<b>44,823</b>	<b>1,557</b>	<b>2,669</b>	<b>5.4</b>	<b>4,306</b>	<b>3,824</b>	<b>482</b>	<b>11.2</b>
16 to 21 years.....	4,432	3,435	391	606	13.7	2,306	1,930	377	16.3
16 to 19 years.....	2,175	1,581	268	326	15.0	1,874	1,557	318	16.9
20 years and over.....	46,874	43,243	1,288	2,342	5.0	2,432	2,267	165	6.8
20 to 24 years.....	6,436	5,416	326	693	10.8	708	618	90	12.7
25 years and over.....	40,438	37,827	962	1,648	4.1	1,723	1,649	75	4.4
25 to 54 years.....	35,311	31,093	766	1,452	4.4	606	568	38	6.3
55 years and over.....	7,127	6,734	197	196	2.8	1,118	1,082	37	3.3
<b>Females, 16 years and over.....</b>	<b>29,316</b>	<b>25,661</b>	<b>1,767</b>	<b>1,891</b>	<b>6.4</b>	<b>9,438</b>	<b>8,698</b>	<b>740</b>	<b>7.8</b>
16 to 21 years.....	3,642	2,694	480	468	12.9	2,511	2,164	347	13.8
16 to 19 years.....	1,747	1,168	294	286	16.4	1,977	1,696	281	14.2
20 years and over.....	27,571	24,492	1,473	1,605	5.8	7,461	7,002	459	6.2
20 to 24 years.....	3,065	4,234	377	454	9.0	1,092	974	118	10.8
25 years and over.....	24,506	20,259	1,097	1,151	5.1	6,369	6,027	341	5.4
25 to 54 years.....	16,886	16,937	894	1,056	5.6	4,888	4,598	290	5.9
55 years and over.....	3,618	3,321	202	95	2.6	1,481	1,429	52	3.5
<b>Black and other</b>									
<b>Males, 16 years and over.....</b>	<b>6,096</b>	<b>4,953</b>	<b>342</b>	<b>800</b>	<b>13.1</b>	<b>450</b>	<b>354</b>	<b>96</b>	<b>21.3</b>
16 to 21 years.....	652	344	89	219	33.6	241	159	83	34.3
16 to 19 years.....	305	130	51	123	40.4	206	137	69	33.5
20 years and over.....	5,791	4,823	291	677	11.7	244	217	27	11.1
20 to 24 years.....	956	659	82	215	22.5	78	59	18	23.8
25 years and over.....	4,835	4,164	209	462	9.6	166	158	9	5.4
25 to 54 years.....	4,147	3,556	168	423	10.2	66	63	4	(2)
55 years and over.....	680	609	41	38	5.5	100	95	5	5.0
<b>Females, 16 years and over.....</b>	<b>5,111</b>	<b>4,110</b>	<b>364</b>	<b>637</b>	<b>12.5</b>	<b>953</b>	<b>804</b>	<b>148</b>	<b>15.5</b>
16 to 21 years.....	556	321	64	173	31.1	241	152	89	36.9
16 to 19 years.....	246	116	23	107	43.4	194	117	77	39.7
20 years and over.....	4,804	3,993	341	530	10.9	759	688	71	9.4
20 to 24 years.....	859	619	64	176	20.5	115	92	23	20.3
25 years and over.....	4,005	3,375	277	354	8.8	644	596	48	7.5
25 to 54 years.....	3,541	2,994	218	329	9.3	443	402	41	9.3
55 years and over.....	464	380	59	25	5.4	201	194	8	4.0

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

<sup>2</sup> Percent not shown where base is less than 75,000.

# HOUSEHOLD DATA

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

(Numbers in thousands)

Family relationship	September 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					
<b>Total, 16 years and over</b> .....	104,720	63.6	97,256	7,464	7.1	59,948	31,936	8,565	2,562	16,884
<b>Husbands</b> <sup>1</sup> .....	40,930	80.9	39,300	1,630	4.0	9,686	153	201	1,111	8,221
With employed wife .....	21,021	91.8	20,304	717	3.4	1,881	39	108	357	1,378
With unemployed wife .....	1,342	93.0	1,196	146	10.9	101	2	12	25	63
With wife not in labor force .....	16,683	70.0	16,047	636	3.8	7,162	90	56	657	6,360
<b>Wives</b> .....	24,345	50.5	22,901	1,443	5.9	23,847	21,486	280	246	1,834
With employed husband .....	21,499	57.3	20,303	1,196	5.6	16,049	14,888	248	89	824
With unemployed husband .....	863	57.5	717	146	16.9	636	589	12	7	28
With husband not in labor force .....	1,982	21.7	1,881	101	5.1	7,162	6,009	19	150	983
<b>Relatives in married-couple families</b> .....	13,927	60.3	11,946	1,981	14.2	9,159	1,244	5,817	330	1,767
16-19 years .....	6,163	53.9	5,186	977	15.9	5,281	189	4,582	12	498
20-24 years .....	4,866	74.4	4,199	667	13.7	1,670	166	1,123	43	337
25 years and over .....	2,898	56.8	2,561	337	11.6	2,208	889	112	275	932
<b>Females who maintain families</b> .....	5,179	58.3	4,719	460	8.9	3,707	2,940	133	137	497
<b>Relatives in families maintained by females</b> .....	4,303	55.2	3,414	889	20.7	3,490	847	1,473	211	958
16-19 years .....	1,316	46.3	903	413	31.4	1,528	115	1,201	6	204
20-24 years .....	1,312	70.9	1,042	271	20.7	539	127	240	11	161
25 years and over .....	1,675	54.0	1,469	205	12.2	1,423	605	32	194	593
<b>Persons not living in families</b> <sup>2</sup> .....	16,036	61.5	14,976	1,061	6.6	10,059	5,266	661	527	3,607

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

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

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

Marital status, race, and age	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
	<b>Total, 16 years and over</b> .....	2,705	4,048	4.5	6.8	3,093	3,416	7.1
Married, spouse present .....	951	1,586	2.3	4.0	1,278	1,507	5.2	6.1
Widowed, divorced, or separated .....	268	438	5.6	8.5	546	618	6.7	7.3
Single (never married) .....	1,487	2,023	10.4	13.7	1,269	1,291	11.4	11.3
<b>White, 16 years and over</b> .....	2,164	3,151	4.1	5.9	2,367	2,631	6.2	6.8
Married, spouse present .....	807	1,357	2.2	3.7	1,103	1,299	5.0	5.8
Widowed, divorced, or separated .....	198	297	5.2	7.0	404	460	6.2	6.7
Single (never married) .....	1,160	1,496	9.4	11.9	860	872	9.2	9.1
<b>Black and other, 16 years and over</b> .....	541	896	8.3	13.7	726	785	12.4	12.9
Married, spouse present .....	144	229	4.0	6.6	176	208	6.9	8.1
Widowed, divorced, or separated .....	70	141	7.5	15.3	142	158	9.1	9.7
Single (never married) .....	327	527	16.9	24.3	409	419	23.1	22.6
<b>Total, 20 to 64 years of age</b> .....	1,888	3,162	3.6	5.9	2,296	2,631	6.0	6.7
Married, spouse present .....	875	1,526	2.3	4.0	1,174	1,419	4.9	5.9
Widowed, divorced, or separated .....	247	427	5.5	8.7	515	578	6.9	7.4
Single (never married) .....	767	1,208	8.0	11.7	606	633	8.4	8.3
<b>White, 20 to 64 years of age</b> .....	1,491	2,470	3.2	5.2	1,743	2,035	5.3	6.0
Married, spouse present .....	736	1,309	2.1	3.8	1,007	1,221	4.7	5.7
Widowed, divorced, or separated .....	185	290	5.1	7.2	373	428	6.2	6.8
Single (never married) .....	571	871	7.0	10.0	363	387	6.2	6.3
<b>Black and other, 20 to 64 years of age</b> .....	398	692	6.8	11.8	554	595	10.4	10.8
Married, spouse present .....	139	218	4.0	6.5	168	199	6.8	7.9
Widowed, divorced, or separated .....	62	138	7.0	15.9	141	150	9.5	9.7
Single (never married) .....	196	337	13.5	20.3	244	247	18.2	17.2

## A-11. Unemployed persons by occupation and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
Total, 16 years and over	5,798	7,464	5.6	7.1	4.5	6.8	7.1	7.6
White-collar workers	1,852	2,172	3.6	4.1	2.3	2.9	4.8	5.1
Professional and technical	448	461	2.9	2.9	1.9	2.3	4.1	3.7
Managers and administrators, except farm	239	281	2.2	2.5	1.8	2.1	3.2	3.5
Sales workers	229	259	3.6	4.0	2.5	3.3	5.0	4.9
Clerical workers	936	1,171	5.0	6.1	4.1	6.0	5.3	6.1
Blue-collar workers	2,118	3,202	6.1	9.4	5.4	8.8	9.2	12.0
Craft and kindred workers	463	835	3.4	6.2	3.3	5.9	5.0	10.3
Carpenters and other construction craft workers	206	360	4.8	8.3	4.8	8.3	(1)	8.5
All other	257	475	2.8	5.2	2.6	4.7	5.0	10.6
Operatives, except transport	993	1,406	8.3	12.1	6.7	11.4	10.5	13.0
Transport equipment operatives	185	321	4.8	8.5	4.9	8.7	3.4	6.4
Nonfarm laborers	477	640	9.2	12.9	9.5	13.5	7.1	8.2
Construction laborers	124	161	12.2	17.3	11.9	17.2	(1)	(1)
All other	353	479	8.5	11.9	8.8	12.5	6.2	7.7
Service workers	948	1,150	6.9	8.3	5.9	8.6	7.5	8.1
Private household	66	53	5.3	5.0	(1)	(1)	5.5	4.8
All other	882	1,098	7.1	8.5	6.0	8.6	7.9	8.5
Farm workers	114	126	3.8	4.1	3.2	3.8	6.3	5.3
No previous work experience	766	913	--	--	--	--	--	--
16 to 19 years	541	584	--	--	--	--	--	--
20 to 24 years	133	147	--	--	--	--	--	--
25 years and over	94	83	--	--	--	--	--	--

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

## A-12. Unemployed persons by industry and sex

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
Total, 16 years and over	100.0	100.0	5.6	7.1	4.5	6.8	7.1	7.6
Nonagricultural private wage and salary workers	72.1	75.2	5.5	7.3	4.7	7.2	6.7	7.5
Mining	.7	.8	4.8	5.7	4.8	5.7	5.2	5.6
Construction	6.0	7.9	6.6	11.8	6.7	11.6	5.7	14.2
Manufacturing	22.3	26.4	5.6	8.6	4.5	7.6	7.9	10.6
Durable goods	11.7	17.5	4.9	9.4	4.4	8.7	6.3	11.5
Lumber and wood products	.6	1.0	4.7	10.5	5.1	10.6	2.4	9.5
Furniture and fixtures	.3	.8	3.5	10.5	2.0	9.1	6.5	13.7
Stone, clay, and glass products	.7	.9	5.3	10.3	4.5	9.0	8.8	15.5
Primary metal industries	1.1	1.9	4.8	11.2	4.8	10.7	5.2	14.3
Fabricated metal products	1.6	2.0	5.6	9.1	4.8	7.3	8.2	15.6
Machinery, except electrical equipment	1.6	2.7	3.4	7.0	3.5	6.6	3.0	8.6
Electrical equipment	1.8	2.6	4.5	7.8	3.7	5.8	5.4	10.3
Transportation equipment	2.5	4.2	6.3	13.0	5.4	12.9	10.4	13.4
Automobiles	1.5	3.3	6.9	20.0	5.6	19.5	12.4	22.7
Other transportation equipment	1.0	.8	5.5	5.3	5.1	5.6	7.4	5.1
Instruments and related products	.7	.5	6.3	5.8	4.8	5.3	8.3	6.4
Other durable goods industries	.8	1.1	5.6	11.2	5.2	7.9	6.1	14.9
Nondurable goods	10.7	8.9	6.7	7.3	4.6	5.4	9.4	9.7
Food and kindred products	2.9	2.0	8.4	7.4	5.8	6.4	13.5	9.4
Textile mill products	.8	.8	5.1	6.6	3.2	5.3	7.3	7.9
Apparel and other textile products	2.4	2.1	10.0	11.5	8.9	8.9	10.3	12.2
Paper and allied products	.6	.6	4.3	6.4	2.8	5.1	9.1	11.0
Printing and publishing	1.2	1.0	4.7	4.7	4.0	3.5	5.6	6.5
Chemicals and allied products	.9	1.0	4.2	5.5	3.4	3.9	6.4	9.7
Rubber and plastics products	1.1	1.0	7.9	9.9	6.2	8.5	10.9	12.5
Other nondurable goods industries	.8	.5	6.8	6.2	4.0	4.6	10.3	8.1
Transportation and public utilities	3.7	4.0	3.9	5.3	3.2	5.5	6.0	4.9
Railroads and railway express	.2	.4	1.4	5.1	1.5	5.1	(1)	(1)
Other transportation	2.5	2.8	5.5	7.9	4.6	8.3	8.9	6.3
Communication and other public utilities	1.1	.8	2.8	2.6	2.0	1.7	4.3	4.1
Wholesale and retail trade	19.7	18.5	6.1	7.3	4.9	6.7	7.6	8.0
Finance, insurance, and real estate	2.8	2.7	3.0	3.6	1.9	3.1	3.8	4.0
Service industries	16.8	15.0	5.7	6.4	5.0	6.6	6.1	6.3
Professional services	7.4	6.4	4.4	4.6	3.6	4.0	4.8	4.9
All other service industries	9.4	8.7	7.5	8.9	6.2	8.9	8.6	9.0
Agricultural wage and salary workers	2.5	2.2	8.7	9.6	7.4	8.7	14.0	12.7
All other classes of workers	12.3	11.8	2.8	3.4	2.1	2.9	3.7	4.0
No previous work experience	13.2	10.9	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
<b>NUMBER OF UNEMPLOYED</b>												
Total unemployed, in thousands	5,798	7,464	1,960	3,212	2,327	2,666	1,511	1,586	4,531	5,782	1,267	1,681
Job losers	2,180	3,708	1,129	2,211	729	1,131	322	366	1,702	2,880	478	828
On layoff	619	1,308	298	814	259	417	62	77	516	1,068	103	240
Other job losers	1,561	2,400	831	1,397	470	714	260	289	1,186	1,812	375	588
Job leavers	946	969	306	382	410	409	229	178	813	808	133	161
Reentrants	1,908	1,973	464	517	1,025	998	418	458	1,468	1,523	440	450
New entrants	765	813	61	102	162	127	541	584	548	571	217	242
<b>PERCENT DISTRIBUTION</b>												
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	37.6	49.7	57.6	68.8	31.3	42.5	21.3	23.1	37.6	49.8	37.7	49.2
On layoff	10.7	17.5	15.2	25.3	11.1	15.7	4.1	4.9	11.4	18.5	8.1	14.3
Other job losers	26.9	32.2	42.4	43.5	20.2	26.8	17.2	18.2	26.2	31.3	29.6	34.9
Job leavers	16.3	13.0	15.6	11.9	17.6	15.4	15.2	11.2	17.9	14.0	10.5	9.6
Reentrants	32.9	26.4	23.7	16.1	44.1	37.4	27.7	28.9	32.4	26.3	34.7	26.8
New entrants	13.2	10.9	3.1	3.2	7.0	4.8	35.8	36.8	12.1	9.9	17.1	14.4
<b>UNEMPLOYMENT RATE</b>												
Total unemployment rate	5.6	7.1	3.6	5.8	5.9	6.6	16.7	18.2	5.0	6.3	10.3	13.3
Job loser rate <sup>1</sup>	2.1	3.5	2.0	4.0	1.9	2.8	3.6	4.2	1.9	3.2	3.8	6.6
Job leaver rate <sup>1</sup>	.9	.9	.6	.7	1.0	1.0	2.5	2.0	.9	.9	1.1	1.3
Reentrant rate <sup>1</sup>	1.8	1.9	.8	.9	2.6	2.5	4.6	5.3	1.6	1.7	3.6	3.6
New entrant rate <sup>1</sup>	.7	.8	.1	.2	.4	.3	6.0	6.7	.6	.6	1.8	1.9

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

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

(Percent distribution)

Reason, sex, and age	September 1980						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over		
					Total	15 to 26 weeks	27 weeks and over
<b>Total, 16 years and over</b>	7,464	100.0	43.3	30.6	26.2	14.7	11.5
Job losers	3,708	100.0	32.7	31.7	35.6	19.4	16.2
On layoff	1,308	100.0	35.0	30.4	34.6	21.3	13.3
Other job losers	2,400	100.0	31.4	32.5	36.1	18.4	17.8
Job leavers	969	100.0	48.9	31.0	20.1	11.3	8.8
Reentrants	1,973	100.0	57.4	26.8	15.8	9.2	6.6
New entrants	813	100.0	50.6	33.8	15.7	10.5	5.1
<b>Males, 20 years and over</b>	3,212	100.0	32.9	31.4	35.7	19.2	16.5
Job losers	2,211	100.0	28.4	31.5	40.1	21.4	18.7
On layoff	814	100.0	33.7	29.7	36.6	23.1	13.6
Other job losers	1,397	100.0	25.3	32.6	42.1	20.5	21.6
Job leavers	382	100.0	40.1	36.7	23.1	10.8	12.4
Reentrants	517	100.0	47.5	25.1	27.4	16.8	10.6
New entrants	102	100.0	29.7	39.4	30.9	15.1	15.8
<b>Females, 20 years and over</b>	2,666	100.0	47.7	29.4	22.9	12.7	10.2
Job losers	1,131	100.0	34.6	31.4	34.0	19.0	15.0
On layoff	417	100.0	36.2	30.1	33.7	19.8	13.9
Other job losers	714	100.0	33.7	32.2	34.1	18.5	15.6
Job leavers	409	100.0	50.2	27.0	22.9	14.2	8.6
Reentrants	998	100.0	58.2	29.6	12.2	5.8	6.4
New entrants	127	100.0	73.3	18.7	8.0	5.4	2.5
<b>Both sexes, 16 to 19 years</b>	1,586	100.0	56.8	30.8	12.4	8.9	3.5
Job losers	366	100.0	52.5	34.0	13.5	8.4	5.0
On layoff	77	100.0	43.2	39.1	17.8	9.8	7.9
Other job losers	289	100.0	54.9	32.7	12.4	8.1	4.3
Job leavers	178	100.0	64.9	27.8	7.3	5.9	1.4
Reentrants	458	100.0	66.5	22.8	10.7	8.0	2.8
New entrants	584	100.0	49.3	36.0	14.6	10.8	3.8

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

Sex, age, and race	September 1980								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	7,464	6,004	27.0	6.5	73.4	32.5	13.0	5.6	1.58
16 to 19 years .....	1,580	1,480	18.7	3.3	78.1	24.9	10.9	5.3	1.41
20 to 24 years .....	1,789	1,460	30.6	6.6	72.9	33.3	14.2	4.9	1.63
25 to 34 years .....	2,023	1,523	30.2	8.9	73.2	37.5	13.5	5.4	1.69
35 to 44 years .....	952	724	32.5	7.8	69.8	35.1	12.8	5.5	1.64
45 to 54 years .....	656	484	29.3	8.1	68.8	37.4	10.1	8.7	1.62
55 to 64 years .....	371	262	19.8	5.7	70.6	26.7	20.2	5.3	1.48
65 years and over .....	85	65	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Males, 16 years and over</b> .....	4,040	3,110	30.2	6.5	75.0	30.8	15.7	6.8	1.65
16 to 19 years .....	836	777	18.0	2.7	78.9	26.3	15.1	4.9	1.46
20 to 24 years .....	1,017	788	34.0	5.8	74.4	31.0	18.1	5.8	1.69
25 to 34 years .....	1,127	798	37.0	9.8	77.1	34.5	15.8	7.5	1.82
35 to 44 years .....	454	321	41.4	7.2	71.3	35.8	13.1	6.9	1.76
45 to 54 years .....	337	232	28.4	9.9	68.1	30.2	11.6	12.9	1.61
55 to 64 years .....	226	154	20.8	7.8	68.8	24.0	16.9	8.4	1.47
65 years and over .....	50	41	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>Females, 16 years and over</b> .....	3,416	2,894	23.7	6.5	71.6	34.4	10.2	4.3	1.51
16 to 19 years .....	756	703	19.5	4.0	77.2	23.5	6.3	5.8	1.36
20 to 24 years .....	772	672	26.6	7.6	71.3	36.2	9.7	3.9	1.55
25 to 34 years .....	896	726	22.9	7.9	68.9	40.8	11.2	3.2	1.55
35 to 44 years .....	499	403	25.5	8.1	68.6	34.6	12.5	4.2	1.53
45 to 54 years .....	321	251	30.3	6.4	69.3	44.2	8.8	4.8	1.64
55 to 64 years .....	145	109	19.3	2.8	72.5	30.3	24.8	1.8	1.51
65 years and over .....	35	24	(1)	(1)	(1)	(1)	(1)	(1)	(1)
<b>White, 16 years and over</b> .....	5,782	4,579	25.6	6.8	73.9	34.2	12.8	5.2	1.59
Males .....	3,151	2,366	28.5	7.2	75.4	32.0	15.4	6.6	1.65
Females .....	2,631	2,213	22.5	6.4	72.4	36.6	10.1	3.7	1.52
<b>Black and other, 16 years and over</b> .....	1,681	1,425	31.6	5.5	71.5	27.2	13.5	6.9	1.56
Males .....	896	744	35.3	4.4	73.7	27.0	16.5	7.8	1.65
Females .....	785	681	27.5	6.8	69.2	27.3	10.4	6.2	1.47

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

waiting to begin a new wage and salary job within 30 days are not actually seeking jobs. It should also be noted that the percent using each method will always total more than 100 because many jobseekers use more than one method.

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

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

Sex and reason	September 1980								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers					Other	
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives		
<b>Total, 16 years and over</b> .....	7,464	6,004	27.0	6.5	73.4	32.5	13.0	5.6	1.58
Job losers .....	3,700	2,393	35.2	6.9	74.8	33.4	13.7	6.3	1.70
Job leavers .....	969	948	26.3	7.1	74.8	32.7	12.6	2.8	1.56
Reentrants .....	1,973	1,860	20.1	6.3	69.2	34.7	13.4	6.2	1.50
New entrants .....	813	804	19.7	5.1	77.0	24.8	10.6	5.5	1.43
<b>Males, 16 years and over</b> .....	4,040	3,110	30.2	6.5	75.0	30.8	15.7	6.8	1.65
Job losers .....	2,457	1,583	35.7	7.1	75.9	31.7	15.6	8.1	1.74
Job leavers .....	482	474	25.5	6.5	77.6	30.2	14.3	3.8	1.58
Reentrants .....	743	698	24.2	6.7	70.8	31.7	17.3	6.9	1.58
New entrants .....	365	356	23.0	3.4	75.8	25.8	14.3	5.3	1.48
<b>Females, 16 years and over</b> .....	3,416	2,894	23.7	6.5	71.6	34.4	10.2	4.3	1.51
Job losers .....	1,251	810	34.3	6.4	72.6	36.7	9.9	2.6	1.62
Job leavers .....	487	474	27.2	7.6	71.9	35.2	11.0	1.9	1.55
Reentrants .....	1,230	1,162	17.6	6.1	68.4	36.4	11.0	5.9	1.45
New entrants .....	446	448	16.7	6.5	77.9	23.9	7.6	5.4	1.38

NOTE: See note, table A-15.

# HOUSEHOLD DATA

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

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
Total, 16 years and over	5,798	7,464	100.0	100.0	4,331	5,997	100.0	100.0
Less than 5 weeks	3,058	3,229	52.7	43.3	1,999	2,226	46.2	37.1
5 to 14 weeks	1,769	2,281	30.5	30.6	1,451	1,942	33.5	32.4
5 to 10 weeks	1,283	1,498	22.1	20.1	1,039	1,242	24.0	20.7
11 to 14 weeks	486	782	8.4	10.5	412	700	9.5	11.7
15 weeks and over	971	1,954	16.8	26.2	881	1,829	20.3	30.5
15 to 26 weeks	504	1,096	8.7	14.7	464	1,014	10.7	16.9
27 weeks and over	467	858	8.1	11.5	417	814	9.6	13.6
27 to 51 weeks	235	502	4.1	6.7	219	483	5.1	8.1
52 weeks and over	232	356	4.0	4.8	198	331	4.6	5.5
Average (mean) duration, in weeks	10.0	12.3	--	--	11.3	13.8	--	--
Median duration, in weeks	4.7	6.7	--	--	5.9	8.5	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
Total, 16 years and over	7,464	3,229	2,281	1,096	858	12.3	6.7	52.7	43.3	16.8	26.2
16 to 21 years	2,361	1,263	733	245	121	8.5	4.7	62.5	53.5	9.0	15.5
16 to 19 years	1,386	900	489	141	56	7.5	4.4	64.4	56.8	8.3	12.4
20 to 24 years	1,789	803	569	235	182	11.2	6.3	54.7	44.9	14.1	23.3
25 to 34 years	2,023	761	633	358	271	13.8	8.3	48.8	37.6	19.0	31.1
35 to 44 years	952	379	264	166	144	14.1	8.4	45.6	39.8	22.5	32.5
45 to 64 years	658	220	177	130	131	17.5	10.6	41.8	33.4	27.0	39.7
65 to 64 years	371	120	136	55	60	15.6	9.1	40.9	32.3	27.1	30.9
65 years and over	35	47	13	10	15	16.1	4.5	40.6	55.0	28.9	29.2
Males, 16 years and over	4,048	1,523	1,251	704	570	14.2	8.7	48.7	37.6	19.4	31.5
16 to 21 years	1,234	644	403	152	85	9.6	5.0	61.2	50.2	10.2	18.4
16 to 19 years	636	466	244	87	39	8.2	4.5	63.8	55.7	9.5	15.1
20 to 24 years	1,017	388	344	164	121	12.6	8.6	51.4	38.2	13.5	28.0
25 to 34 years	1,127	351	344	235	197	16.3	10.8	41.2	31.1	23.4	38.3
35 to 44 years	454	141	125	101	87	17.4	11.6	37.5	31.0	26.0	41.4
45 to 64 years	337	75	101	75	86	21.4	14.3	31.8	22.3	39.5	47.7
65 to 64 years	228	75	85	37	31	14.3	9.0	39.5	32.7	29.6	30.0
65 years and over	50	28	7	6	9	17.5	4.5	(1)	(1)	(1)	(1)
Females, 16 years and over	3,416	1,706	1,029	392	288	10.1	5.0	56.3	49.9	14.4	19.9
16 to 21 years	1,077	618	331	93	36	7.2	4.4	63.8	57.4	7.8	11.9
16 to 19 years	750	435	245	55	17	6.8	4.3	65.1	57.9	7.1	9.5
20 to 24 years	772	415	224	72	61	9.4	4.7	57.7	53.7	14.7	17.3
25 to 34 years	696	410	288	124	74	10.6	5.9	54.2	45.8	15.9	22.1
35 to 44 years	499	238	139	65	57	11.2	5.6	51.6	47.7	19.9	24.4
45 to 64 years	321	144	76	56	45	13.4	6.2	50.4	45.0	16.3	31.3
65 to 64 years	143	45	51	18	28	17.7	9.1	42.6	31.7	24.1	32.4
65 years and over	35	19	6	4	6	14.2	4.6	(1)	(1)	(1)	(1)
White, 16 years and over	5,782	2,591	1,760	839	592	11.5	6.3	55.0	44.8	15.9	24.8
Males	3,151	1,199	997	544	410	13.5	8.6	51.2	38.1	19.2	30.3
Females	2,631	1,392	763	295	182	9.1	4.7	58.6	52.9	13.0	18.1
Black and other, 16 years and over	1,681	638	520	257	266	15.1	8.5	44.5	37.9	19.6	31.1
Males	696	323	254	159	160	16.5	9.3	38.6	36.1	20.3	35.6
Females	985	314	266	98	106	13.5	7.7	48.9	40.1	19.1	26.0
Males, 16 years and over:											
Married, spouse present	1,366	515	494	339	239	15.2	10.2	43.3	32.5	25.0	36.4
Widowed, divorced, or separated	438	124	159	68	87	17.8	10.4	36.5	28.4	19.2	35.4
Single (never married)	2,023	884	599	297	244	12.5	7.0	54.3	43.7	15.9	26.8
Females, 16 years and over:											
Married, spouse present	1,307	757	455	166	130	9.9	5.0	57.9	50.2	13.5	19.6
Widowed, divorced, or separated	618	278	176	86	78	12.7	5.9	48.5	45.0	19.5	26.5
Single (never married)	1,291	671	399	141	81	9.2	4.8	58.0	52.0	13.2	17.1

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



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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
	September 1980										
<b>OCCUPATION</b>											
White-collar workers	2,172	1,031	655	277	210	11.3	5.5	52.1	47.5	17.8	22.4
Professional and managerial	742	348	221	95	78	12.2	6.1	47.0	46.9	20.7	23.2
Sales workers	259	107	81	39	32	12.8	6.5	59.7	41.2	14.8	27.6
Clerical workers	1,171	575	353	144	100	10.5	5.2	54.0	49.1	16.6	20.8
Blue-collar workers	3,202	1,146	998	569	490	14.4	9.1	48.9	35.8	19.1	33.1
Craft and kindred workers	535	293	283	120	138	14.8	8.8	46.8	35.1	18.2	31.0
Operatives, except transport	1,406	461	434	298	213	14.6	10.3	47.7	32.8	20.3	36.4
Transport equipment operatives	321	124	92	59	46	13.1	8.7	52.6	38.7	21.2	32.7
Nonfarm laborers	640	267	189	92	92	14.1	7.4	52.0	41.7	16.5	28.7
Service workers	1,150	572	312	153	113	11.2	5.1	55.4	49.8	15.0	23.1
<b>INDUSTRY<sup>1</sup></b>											
Agriculture	161	85	54	15	6	8.7	4.7	70.3	52.8	4.3	13.5
Construction	614	241	170	94	109	14.6	8.0	49.1	39.2	17.5	33.1
Manufacturing	1,370	647	614	387	322	15.2	10.3	47.1	32.9	20.9	36.0
Durable goods	1,306	363	426	277	239	16.6	11.9	44.6	27.8	21.5	39.5
Nondurable goods	664	284	188	109	83	12.4	6.4	49.8	42.8	20.2	29.0
Transportation and public utilities	334	151	92	56	35	11.9	6.3	41.5	45.1	25.4	27.3
Wholesale and retail trade	1,385	627	434	177	146	11.5	6.0	50.9	45.3	17.7	23.4
Finance and service industries	1,107	834	512	224	138	10.8	5.3	57.4	48.9	14.1	21.2
Public administration	304	147	89	37	30	11.7	5.3	55.3	48.5	17.1	22.1
No previous work experience	613	411	275	86	42	9.2	4.9	58.8	50.6	12.1	15.7

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

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

[In thousands]

Industry and age	Total		Males		Females	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
	<b>All industries</b>	97,576	97,256	56,878	55,853	40,697
16 to 19 years	7,524	7,138	4,044	3,724	3,480	3,414
16 to 17 years	3,135	2,817	1,722	1,461	1,413	1,356
18 to 19 years	4,389	4,320	2,322	2,263	2,067	2,058
20 to 24 years	13,937	13,520	7,584	7,161	6,353	6,359
25 to 54 years	61,636	62,256	36,305	36,212	25,332	26,044
25 to 34 years	26,099	26,420	15,407	15,355	10,692	11,065
35 to 44 years	19,069	19,480	11,109	11,263	7,960	8,218
45 to 54 years	16,468	16,356	9,789	9,594	6,679	6,762
55 to 64 years	11,500	11,409	7,039	6,929	4,460	4,480
55 to 59 years	7,158	7,016	4,367	4,241	2,790	2,775
60 to 64 years	4,342	4,393	2,672	2,688	1,670	1,705
65 years and over	2,979	2,933	1,907	1,826	1,072	1,107
<b>Nonagricultural industries</b>	94,030	93,621	54,069	52,962	39,961	40,659
16 to 19 years	7,155	6,690	3,732	3,358	3,423	3,332
16 to 17 years	2,917	2,589	1,532	1,271	1,385	1,317
18 to 19 years	4,238	4,101	2,201	2,087	2,038	2,014
20 to 24 years	13,486	13,082	7,219	6,796	6,267	6,286
25 to 54 years	59,837	60,404	34,952	34,826	24,885	25,578
25 to 34 years	25,393	25,709	14,853	14,803	10,540	10,905
35 to 44 years	18,537	18,944	10,722	10,869	7,815	8,075
45 to 54 years	15,907	15,751	9,377	9,154	6,530	6,598
55 to 64 years	10,945	10,847	6,588	6,453	4,356	4,394
55 to 59 years	6,871	6,718	4,134	3,998	2,737	2,720
60 to 64 years	4,074	4,129	2,454	2,455	1,619	1,674
65 years and over	2,608	2,598	1,578	1,528	1,030	1,069
<b>Agriculture</b>	3,545	3,635	2,809	2,891	736	744
16 to 19 years	369	448	311	366	58	82
16 to 17 years	218	229	190	190	28	39
18 to 19 years	151	219	121	176	30	43
20 to 24 years	452	438	365	365	87	73
25 to 54 years	1,799	1,853	1,354	1,387	446	466
25 to 34 years	706	712	554	552	152	159
35 to 44 years	532	537	387	394	145	143
45 to 54 years	561	605	412	441	148	164
55 to 64 years	555	562	451	476	104	86
55 to 59 years	287	297	233	243	53	54
60 to 64 years	268	264	218	233	51	31
65 years and over	370	335	329	298	42	37

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**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	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
	<b>TOTAL</b> .....	97,576	97,256	52,835	52,129	37,217	37,990	4,044	3,724	3,480
White-collar workers .....	49,529	50,873	22,734	23,226	24,371	25,258	634	589	1,790	1,800
Professional and technical .....	15,108	15,454	8,492	8,518	6,470	6,747	78	91	69	98
Health workers .....	2,854	2,835	970	921	1,863	1,887	3	8	17	19
Teachers, except college .....	3,206	3,267	952	987	2,240	2,258	6	4	9	17
Other professional and technical .....	9,048	9,352	6,570	6,610	2,367	2,602	69	79	43	62
Managers and administrators, except farm .....	10,757	11,117	8,038	8,192	2,619	2,831	53	48	46	45
Salaried workers .....	8,963	9,109	6,638	6,667	2,231	2,355	47	40	47	45
Self-employed workers in retail trade .....	832	932	587	604	245	327	--	2	--	--
Self-employed workers, except retail trade .....	961	1,076	813	921	143	150	6	5	--	--
Sales workers .....	6,059	6,220	3,053	3,184	2,381	2,438	234	185	391	413
Retail trade .....	3,141	3,178	975	1,041	1,627	1,618	176	137	363	382
Other industries .....	2,918	3,041	2,078	2,143	754	820	58	47	28	31
Clerical workers .....	17,606	18,083	3,151	3,332	12,902	13,241	269	266	1,284	1,244
Stenographers, typists, and secretaries .....	4,769	4,840	61	63	4,385	4,465	4	4	318	308
Other clerical workers .....	12,837	13,243	3,090	3,269	8,517	8,776	265	262	966	936
Blue-collar workers .....	32,486	30,725	24,196	22,959	5,633	5,385	2,260	2,039	397	341
Craft and kindred workers .....	13,135	12,684	11,823	11,399	716	724	544	522	52	41
Carpenters .....	1,325	1,247	1,238	1,140	7	24	76	85	3	--
Construction craft workers, except carpenters .....	2,732	2,717	2,552	2,539	55	59	121	115	5	6
Mechanics and repairers .....	3,427	3,360	3,165	3,114	50	51	206	193	5	3
Metal craft workers .....	1,314	1,308	1,232	1,231	39	44	36	31	5	2
Blue-collar worker supervisors, not elsewhere classified .....	1,841	1,718	1,634	1,491	182	200	20	22	5	6
All other .....	2,495	2,334	2,001	1,884	381	348	84	77	29	26
Operatives, except transport .....	11,009	10,257	5,967	5,588	4,181	3,963	606	501	256	206
Durable goods manufacturing .....	4,964	4,483	2,983	2,792	1,699	1,462	193	165	90	63
Nondurable goods manufacturing .....	3,522	3,289	1,412	1,260	1,894	1,852	104	80	112	96
Other industries .....	2,523	2,485	1,572	1,536	589	648	308	255	54	47
Transport equipment operatives .....	3,655	3,472	3,169	3,024	303	295	172	143	11	11
Drivers, motor vehicles .....	3,083	2,926	2,633	2,520	283	267	155	128	12	11
All other .....	572	547	536	504	20	29	17	14	--	--
Nonfarm laborers .....	4,686	4,311	3,237	2,949	433	404	938	874	78	84
Construction .....	889	769	718	631	12	17	157	116	3	5
Manufacturing .....	1,034	938	742	726	153	127	120	78	19	7
Other industries .....	2,763	2,603	1,777	1,592	268	260	662	680	57	71
Service workers .....	12,704	12,741	3,839	3,854	6,705	6,850	918	824	1,243	1,212
Private household workers .....	1,170	1,000	18	12	944	806	13	7	196	175
Service workers, except private household .....	11,534	11,741	3,821	3,842	5,761	6,044	905	818	1,047	1,037
Food service workers .....	4,254	4,383	815	808	2,143	2,298	579	547	717	730
Protective service workers .....	1,403	1,344	1,244	1,197	125	117	28	25	6	5
All other .....	5,877	6,014	1,762	1,837	3,493	3,629	298	246	324	302
Farm workers .....	2,856	2,918	2,067	2,090	507	496	232	272	50	60
Farmers and farm managers .....	1,529	1,597	1,335	1,394	177	177	17	24	--	3
Farm laborers and supervisors .....	1,327	1,321	732	697	331	320	214	248	50	57
Paid workers .....	1,013	1,008	704	664	124	119	157	183	29	41
Unpaid family workers .....	314	313	29	32	207	200	58	64	21	16

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

[Percent distribution]

Occupation and race	Total		Males		Females	
	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980
<b>TOTAL</b>						
Total, 16 years and over (thousands) . . . . .	97,576	97,256	56,878	55,853	40,697	41,404
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b> . . . . .	50.8	52.3	41.1	42.6	64.3	65.4
Professional and technical . . . . .	15.5	15.9	15.1	15.4	16.1	16.5
Managers and administrators, except farm . . . . .	11.0	11.4	14.2	14.8	6.5	6.9
Sales workers . . . . .	6.2	6.4	5.8	6.0	6.8	6.9
Clerical workers . . . . .	18.0	18.6	6.0	6.4	34.9	35.0
<b>Blue-collar workers</b> . . . . .	33.3	31.6	46.5	44.8	14.8	13.8
Craft and kindred workers . . . . .	13.5	13.0	21.7	21.3	1.9	1.8
Operatives, except transport . . . . .	11.3	10.5	11.6	10.9	10.9	10.1
Transport equipment operatives . . . . .	3.7	3.6	5.9	5.7	.8	.7
Nonfarm laborers . . . . .	4.8	4.4	7.3	6.8	1.3	1.2
<b>Service workers</b> . . . . .	13.0	13.1	8.4	8.4	19.5	19.5
Private household workers . . . . .	1.2	1.0	.1	(1)	2.8	2.4
Other service workers . . . . .	11.8	12.1	8.3	8.3	16.7	17.1
<b>Farm workers</b> . . . . .	2.9	3.0	4.0	4.2	1.4	1.3
Farmers and farm managers . . . . .	1.6	1.6	2.4	2.5	.4	.4
Farm laborers and supervisors . . . . .	1.4	1.4	1.7	1.7	.9	.9
<b>White</b>						
Total, 16 years and over (thousands) . . . . .	86,481	86,329	50,938	50,204	35,543	36,125
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b> . . . . .	52.4	54.0	42.7	44.2	66.2	67.6
Professional and technical . . . . .	15.9	16.3	15.6	15.9	16.3	16.8
Managers and administrators, except farm . . . . .	11.7	12.2	15.1	15.6	6.9	7.4
Sales workers . . . . .	6.7	6.9	6.2	6.4	7.4	7.5
Clerical workers . . . . .	18.1	18.6	5.9	6.2	35.6	35.9
<b>Blue-collar workers</b> . . . . .	32.8	31.1	45.6	44.0	14.3	13.1
Craft and kindred workers . . . . .	14.0	13.4	22.3	21.8	2.0	1.9
Operatives, except transport . . . . .	10.7	10.0	11.1	10.5	10.3	9.4
Transport equipment operatives . . . . .	3.6	3.4	5.6	5.4	.8	.8
Nonfarm laborers . . . . .	4.4	4.1	6.7	6.3	1.2	1.1
<b>Service workers</b> . . . . .	11.9	11.8	7.7	7.5	18.0	17.8
Private household workers . . . . .	.9	.8	(1)	(1)	2.1	1.8
Other service workers . . . . .	11.0	11.1	7.6	7.4	15.8	16.1
<b>Farm workers</b> . . . . .	3.0	3.1	4.0	4.4	1.5	1.4
Farmers and farm managers . . . . .	1.7	1.8	2.6	2.7	.5	.5
Farm laborers and supervisors . . . . .	1.3	1.4	1.5	1.6	1.0	1.0
<b>Black and other</b>						
Total, 16 years and over (thousands) . . . . .	11,094	10,928	5,940	5,649	5,154	5,279
Percent . . . . .	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b> . . . . .	38.2	39.1	27.3	29.0	50.8	50.0
Professional and technical . . . . .	12.3	12.6	10.7	10.7	14.1	14.7
Managers and administrators, except farm . . . . .	5.5	5.5	6.9	7.0	3.8	3.9
Sales workers . . . . .	2.7	2.8	2.4	2.7	3.0	2.9
Clerical workers . . . . .	17.7	18.2	7.2	8.7	29.9	28.5
<b>Blue-collar workers</b> . . . . .	37.5	35.7	54.3	51.6	18.2	18.7
Craft and kindred workers . . . . .	9.6	9.8	17.0	17.4	1.1	1.7
Operatives, except transport . . . . .	15.5	14.5	15.8	14.3	15.2	14.7
Transport equipment operatives . . . . .	4.8	4.6	8.5	8.4	.4	.6
Nonfarm laborers . . . . .	7.6	6.8	13.0	11.6	1.4	1.6
<b>Service workers</b> . . . . .	21.8	23.3	14.4	16.4	30.4	30.6
Private household workers . . . . .	3.5	3.2	.1	.1	7.3	6.5
Other service workers . . . . .	18.4	20.1	14.3	16.3	23.1	24.1
<b>Farm workers</b> . . . . .	2.4	1.8	4.0	2.9	.7	.7
Farmers and farm managers . . . . .	.4	.4	.6	.7	(1)	.1
Farm laborers and supervisors . . . . .	2.1	1.4	3.3	2.2	.6	.6

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

# HOUSEHOLD DATA

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

(In thousands)

Age and sex	September 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	80,305	1,149	15,507	69,649	6,895	421	1,521	1,786	328
16 to 19 years	8,552	236	442	5,875	96	42	310	58	80
16 to 17 years	2,536	190	113	2,233	37	16	147	33	48
18 to 19 years	4,016	46	328	3,642	59	26	162	25	32
20 to 24 years	12,740	67	1,510	11,163	310	32	307	104	28
25 to 34 years	23,995	110	4,589	19,296	1,617	96	360	307	45
35 to 44 years	17,096	155	3,611	13,330	1,744	104	189	289	58
45 to 54 years	14,225	208	3,062	10,955	1,451	75	158	378	68
55 to 64 years	9,657	212	1,952	7,493	1,134	56	133	393	36
65 to 69 years	6,010	112	1,276	4,622	674	35	64	209	24
70 to 74 years	3,640	100	676	2,872	460	21	69	183	12
75 years and over	2,039	161	340	1,537	543	15	65	258	12
<b>Males, 16 years and over</b>	<b>48,029</b>	<b>140</b>	<b>7,558</b>	<b>40,331</b>	<b>4,866</b>	<b>66</b>	<b>1,210</b>	<b>1,584</b>	<b>98</b>
16 to 19 years	3,269	67	194	3,008	61	29	247	55	64
16 to 17 years	1,241	50	48	1,143	23	7	119	30	41
18 to 19 years	2,027	17	146	1,865	38	21	128	25	23
20 to 24 years	6,567	15	605	5,947	212	18	250	94	20
25 to 34 years	13,657	8	2,263	11,387	1,140	7	281	265	6
35 to 44 years	9,663	11	1,760	7,892	1,202	4	140	251	2
45 to 54 years	8,103	9	1,531	6,563	1,047	3	119	322	--
55 to 64 years	5,636	9	1,013	4,613	813	5	119	356	1
65 to 69 years	3,509	6	647	2,857	488	--	59	184	--
70 to 74 years	2,126	4	366	1,756	325	4	60	172	1
75 years and over	1,135	22	192	921	391	1	54	240	4
<b>Females, 16 years and over</b>	<b>38,276</b>	<b>1,009</b>	<b>7,948</b>	<b>29,318</b>	<b>2,029</b>	<b>355</b>	<b>311</b>	<b>203</b>	<b>230</b>
16 to 19 years	3,283	169	247	2,867	35	13	63	4	16
16 to 17 years	1,295	140	65	1,090	14	8	28	4	7
18 to 19 years	1,988	30	182	1,777	21	5	34	--	9
20 to 24 years	6,173	52	905	5,216	99	14	56	10	7
25 to 34 years	10,339	103	2,327	7,909	477	89	79	42	39
35 to 44 years	7,433	144	1,850	5,439	542	100	49	38	56
45 to 54 years	6,122	199	1,531	4,391	404	72	40	56	68
55 to 64 years	4,022	203	939	2,880	320	52	14	36	35
65 to 69 years	2,500	106	629	1,765	185	35	5	25	24
70 to 74 years	1,522	96	310	1,115	135	17	9	11	11
75 years and over	904	139	148	616	152	14	11	18	8

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

(In thousands)

Industry	September 1980											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Agriculture	3,635	86	37	11	92	78	12	41	350	--	11	2,918
Mining	965	129	83	4	139	223	303	49	24	--	11	--
Construction	6,128	191	788	31	400	3,467	262	186	769	--	34	--
Manufacturing	21,479	2,368	1,689	555	2,793	4,180	7,772	758	938	--	425	--
Durable goods	12,806	1,615	994	221	1,666	2,768	4,483	354	536	--	229	--
Non-durable goods	8,673	753	695	334	1,127	1,411	3,289	404	402	--	196	--
Transportation and public utilities	6,508	599	692	77	1,540	1,383	172	1,468	416	--	161	--
Wholesale and retail trade	19,676	432	3,867	4,068	3,489	1,503	917	686	1,113	--	3,600	--
Wholesale trade	3,807	169	800	890	757	369	187	360	231	--	44	--
Retail trade	15,869	263	3,067	3,178	2,732	1,134	729	327	883	--	3,556	--
Finance, insurance, and real estate	5,900	324	1,145	1,229	2,701	113	13	15	60	--	299	--
Services	27,817	10,247	2,127	242	5,103	1,466	756	220	519	1,000	6,136	--
Private households	1,201	13	--	--	6	4	2	--	126	1,000	49	--
Other service industries	26,616	10,234	2,127	241	5,097	1,462	754	220	393	--	6,087	--
Public administration	5,149	1,076	688	2	1,826	272	50	48	123	--	1,064	--

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

(In thousands)

Reason not working and sex	All industries		Nonagricultural industries					
			Total		Wage and salary workers <sup>1</sup>			
	Sept. 1979				Sept. 1980		Paid absences <sup>2</sup>	
			Sept. 1979	Sept. 1980			Sept. 1979	Sept. 1980
Total, 16 years and over . . . . .	4,559	4,771	4,467	4,689	2,357	2,364	1,656	1,785
Vacation . . . . .	2,350	2,426	2,308	2,402	1,697	1,686	443	503
Illness . . . . .	1,317	1,394	1,302	1,369	531	538	677	721
Bad weather . . . . .	44	32	35	25	--	--	--	--
Industrial dispute . . . . .	112	125	112	125	--	--	--	--
All other reasons . . . . .	736	794	711	769	128	140	537	561
Males, 16 years and over . . . . .	2,550	2,554	2,472	2,489	1,395	1,345	805	817
Vacation . . . . .	1,370	1,294	1,333	1,270	1,038	971	198	173
Illness . . . . .	722	770	711	747	295	296	350	381
All other reasons <sup>3</sup> . . . . .	458	499	428	472	61	77	257	262
Females, 16 years and over . . . . .	2,008	2,217	1,995	2,200	962	1,019	851	968
Vacation . . . . .	980	1,142	975	1,132	659	715	245	330
Illness . . . . .	595	624	591	622	236	241	325	339
All other reasons <sup>3</sup> . . . . .	433	452	429	447	67	63	281	299

<sup>1</sup>Excludes private household workers.<sup>3</sup>Includes bad weather and industrial dispute, not shown separately.<sup>2</sup>Pay status not available separately for bad weather and industrial dispute; these categories are included in "all other reasons."

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

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

Hours of work	September 1980					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agri-culture	All industries	Nonagri-cultural industries	Agri-culture
Total, 16 years and over . . . . .	92,486	88,932	3,554	100.0	100.0	100.0
1-34 hours . . . . .	21,548	20,556	992	23.3	23.1	27.9
1-4 hours . . . . .	676	639	37	.7	.7	1.0
5-14 hours . . . . .	3,949	3,723	226	4.3	4.2	6.4
15-29 hours . . . . .	10,907	10,386	521	11.8	11.7	14.7
30-34 hours . . . . .	6,016	5,808	208	6.5	6.5	5.9
35 hours and over . . . . .	70,936	68,376	2,561	76.7	76.9	72.1
35-39 hours . . . . .	6,697	6,520	177	7.2	7.3	5.0
40 hours . . . . .	40,290	39,744	546	43.6	44.7	15.4
41 hours and over . . . . .	23,949	22,112	1,838	25.9	24.9	51.7
41 to 48 hours . . . . .	9,147	8,883	264	9.9	10.0	7.4
49 to 59 hours . . . . .	8,312	7,821	491	9.0	8.8	13.8
60 hours and over . . . . .	6,490	5,408	1,083	7.0	6.1	30.5
Average hours, total at work . . . . .	38.9	38.6	46.3	--	--	--
Average hours, workers on full-time schedules . . . . .	43.2	42.8	54.7	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	September 1980					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
<b>Total, 16 years and over</b> .....	21,548	6,438	15,111	20,556	6,168	14,389
<b>Economic reasons</b> .....	4,030	1,681	2,349	3,789	1,566	2,223
Slack work .....	2,034	1,279	755	1,878	1,178	700
Material shortages or repairs to plant and equipment .....	94	94	--	88	88	--
New job started during week .....	228	228	--	223	223	--
Job terminated during week .....	81	81	--	78	78	--
Could find only part-time work .....	1,594	--	1,594	1,524	--	1,524
<b>Other reasons</b> .....	17,518	4,756	12,762	16,768	4,602	12,166
Does not want, or unavailable for, full-time work .....	10,719	--	10,718	10,250	--	10,250
Vacation .....	980	980	--	967	967	--
Illness .....	1,498	1,352	146	1,454	1,323	131
Bad weather .....	180	180	--	142	142	--
Industrial dispute .....	20	20	--	20	20	--
Legal or religious holiday .....	868	868	--	867	867	--
Full time for this job .....	1,388	--	1,388	1,331	--	1,331
All other reasons .....	1,868	1,358	510	1,737	1,284	453
<b>Average hours:</b>						
Economic reasons .....	22.5	24.8	20.8	22.5	24.8	20.8
Other reasons .....	20.8	26.4	18.7	20.9	26.5	18.8
<b>Worked 30 to 34 hours:</b>						
Economic reasons .....	1,303	755	548	1,232	705	527
Other reasons .....	4,713	2,486	2,227	4,576	2,433	2,143

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

[Numbers in thousands]

Industry	September 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			
<b>Total, 16 years and over</b> <sup>1</sup> .....	88,932	3,789	12,166	72,977	50,865	8,883	13,229	38.6	42.8	
<b>Wage and salary workers</b> .....	82,104	3,387	10,936	67,781	48,532	8,312	10,937	38.4	42.3	
Construction .....	4,690	313	210	4,167	3,088	425	654	39.6	41.9	
Manufacturing .....	20,076	664	574	18,838	13,657	2,676	2,505	40.8	42.0	
Durable goods .....	12,013	285	234	11,494	8,420	1,571	1,503	41.3	42.0	
Nondurable goods .....	8,063	379	340	7,344	5,237	1,105	1,002	40.2	42.0	
Transportation and public utilities .....	5,762	173	383	5,206	3,623	664	919	40.6	42.8	
Wholesale and retail trade .....	16,854	1,041	4,153	11,660	7,542	1,747	2,371	36.1	43.2	
Finance, insurance, and real estate .....	5,191	105	527	4,559	3,442	482	635	38.7	41.3	
Service industries .....	23,762	978	4,810	17,974	13,200	1,763	3,011	36.4	42.2	
Private households .....	1,097	129	645	323	232	33	58	23.0	43.8	
All other industries .....	22,665	849	4,165	17,651	12,968	1,730	2,953	37.1	42.2	
Public administration .....	4,895	93	255	4,547	3,529	433	585	40.1	41.7	
<b>Self-employed workers</b> .....	6,408	379	1,042	4,987	2,212	541	2,234	41.9	48.7	
Unpaid family workers .....	421	23	187	211	124	30	57	33.4	44.8	

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

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

[Numbers in thousands]

Sex, age, race, and marital status	September 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		
<b>TOTAL</b>								
Both sexes, 16 years and over	88,932	3,789	12,166	72,977	50,865	22,112	38.6	42.8
16 to 21 years	11,209	956	4,042	6,211	4,897	1,314	30.6	40.8
16 to 19 years	6,506	590	3,211	2,705	2,213	492	26.6	39.9
16 to 17 years	2,535	139	2,045	351	310	41	18.7	37.8
18 to 19 years	3,971	451	1,166	2,354	1,902	452	31.7	40.2
20 years and over	82,426	3,199	8,955	70,272	48,652	21,620	39.6	42.9
20 to 24 years	12,538	809	1,622	10,107	7,539	2,568	37.6	41.7
25 years and over	69,889	2,390	7,333	60,166	41,115	19,051	39.9	43.0
25 to 44 years	42,720	1,471	3,715	37,534	25,168	12,366	40.6	43.2
45 to 64 years	24,792	812	2,472	21,508	15,132	6,376	39.9	42.7
65 years and over	2,376	107	1,145	1,124	816	308	28.8	42.3
<b>Males, 16 years and over</b>	50,473	1,712	3,543	45,218	28,455	16,763	41.6	44.1
16 to 21 years	5,666	420	1,850	3,396	2,510	886	32.3	41.9
16 to 19 years	3,277	278	1,492	1,507	1,182	325	28.4	40.8
16 to 17 years	1,249	63	965	221	196	25	20.1	38.4
18 to 19 years	2,028	214	527	1,287	987	300	33.5	41.2
20 years and over	47,196	1,433	2,051	43,712	27,272	16,440	42.5	44.2
20 to 24 years	6,552	372	620	5,560	3,754	1,806	39.7	43.1
25 years and over	40,643	1,061	1,431	38,151	23,518	14,633	43.0	44.4
25 to 44 years	24,672	690	414	23,568	14,105	9,463	43.8	44.8
45 to 64 years	14,583	320	424	13,839	8,887	4,952	42.7	43.9
65 years and over	1,389	51	593	745	526	219	30.6	42.3
<b>Females, 16 years and over</b>	38,459	2,077	8,623	27,759	22,411	5,348	34.7	40.5
16 to 21 years	5,543	536	2,191	2,816	2,389	427	28.8	39.5
16 to 19 years	3,229	311	1,718	1,200	1,033	167	24.9	38.9
16 to 17 years	1,286	75	1,080	131	115	16	17.3	36.8
18 to 19 years	1,943	237	639	1,067	915	152	29.9	39.1
20 years and over	35,230	1,766	6,904	26,560	21,379	5,181	35.6	40.6
20 to 24 years	5,986	437	1,003	4,546	3,784	762	35.4	40.0
25 years and over	29,244	1,328	5,902	22,014	17,597	4,417	35.6	40.7
25 to 44 years	18,049	780	3,300	13,969	11,066	2,903	36.1	40.7
45 to 64 years	10,210	492	2,050	7,668	6,243	1,425	35.7	40.6
65 years and over	986	56	552	378	289	89	26.3	42.4
<b>RACE</b>								
<b>White</b>	78,948	3,130	11,145	64,673	43,985	20,688	38.7	43.0
Males	45,332	1,408	3,234	40,690	24,880	15,810	41.8	44.4
Females	33,617	1,722	7,910	23,985	19,108	4,877	34.6	40.6
<b>Black and other</b>	9,984	659	1,021	8,304	6,880	1,424	37.6	41.0
Males	5,141	304	309	4,528	3,576	952	39.4	41.9
Females	4,842	355	712	3,775	3,305	470	35.7	39.9
<b>MARITAL STATUS</b>								
<b>Males, 16 years and over:</b>								
Married, spouse present	34,738	837	1,146	32,755	19,851	12,904	43.2	44.6
Widowed, divorced, or separated	4,272	166	171	3,935	2,500	1,435	42.2	44.1
Single (never married)	11,463	708	2,226	8,529	6,106	2,423	36.4	42.5
<b>Females, 16 years and over:</b>								
Married, spouse present	21,476	1,019	5,131	15,326	12,484	2,842	34.5	40.4
Widowed, divorced, or separated	7,414	421	987	6,006	4,679	1,327	37.3	41.1
Single (never married)	9,569	636	2,505	6,428	5,249	1,179	33.0	40.3

# HOUSEHOLD DATA

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

(Numbers in thousands)

Occupation and sex	September 1980								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
<b>Total, 16 years and over</b> .....	89,627	3,864	12,313	73,450	51,118	8,953	13,379	38.6	42.7
<b>White-collar workers</b> .....	48,524	1,199	6,576	40,749	27,650	4,758	8,341	39.3	43.0
Professional and technical .....	14,702	271	1,520	12,911	8,736	1,481	2,694	40.1	43.1
Managers and administrators, except farm .....	10,612	109	520	9,983	4,907	1,388	3,688	45.3	46.9
Sales workers .....	5,967	259	1,473	4,235	2,570	557	1,108	36.7	44.0
Clerical workers .....	17,242	560	3,063	13,619	11,437	1,332	850	35.7	39.9
<b>Blue-collar workers</b> .....	29,046	1,642	1,889	25,515	18,004	3,476	4,035	39.9	42.5
Craft and kindred workers .....	11,970	445	396	11,129	7,496	1,655	1,978	41.5	43.0
Operatives, except transport .....	9,712	610	475	8,627	6,678	1,093	856	39.3	41.3
Transport equipment operatives .....	3,266	178	249	2,839	1,606	412	821	42.2	45.5
Nonfarm laborers .....	4,099	409	769	2,921	2,227	316	378	34.9	41.4
<b>Service workers</b> .....	12,057	1,023	3,848	7,186	5,464	719	1,003	32.7	42.2
Private household .....	948	106	543	299	219	31	49	23.7	43.5
Other service workers .....	11,109	916	3,305	6,888	5,245	688	955	33.5	42.1
<b>Males, 16 years and over</b> .....	50,986	1,772	3,636	45,578	28,627	6,149	10,802	41.5	44.2
<b>White-collar workers</b> .....	22,867	330	1,370	21,167	11,995	2,775	6,397	43.3	45.3
Professional and technical .....	8,280	112	410	7,758	4,859	893	2,006	42.7	44.4
Managers and administrators, except farm .....	7,880	72	217	7,591	3,429	1,042	3,120	46.7	47.7
Sales workers .....	3,268	64	353	2,851	1,525	408	918	41.9	45.4
Clerical workers .....	3,439	82	389	2,968	2,185	431	352	38.4	41.6
<b>Blue-collar workers</b> .....	23,668	1,186	1,367	21,115	14,323	3,025	3,767	40.6	43.1
Craft and kindred workers .....	11,257	394	320	10,543	7,067	1,568	1,908	41.7	43.1
Operatives, except transport .....	5,787	279	242	5,266	3,783	778	705	40.6	42.4
Transport equipment operatives .....	2,977	155	145	2,677	1,491	387	799	43.3	45.7
Nonfarm laborers .....	3,648	358	660	2,630	1,984	291	355	35.2	41.6
<b>Service workers</b> .....	4,451	256	899	3,296	2,309	349	638	37.3	43.6
Private household .....	17	4	7	6	2	1	3	30.6	51.1
Other service workers .....	4,434	252	891	3,291	2,309	347	635	37.3	43.6
<b>Females, 16 years and over</b> .....	38,640	2,091	8,677	27,872	22,492	2,804	2,576	34.7	40.5
<b>White-collar workers</b> .....	25,657	869	5,206	19,582	15,656	1,983	1,943	35.7	40.6
Professional and technical .....	6,423	159	1,110	5,154	3,880	588	686	36.8	41.1
Managers and administrators, except farm .....	2,732	37	303	2,392	1,478	346	568	41.3	44.2
Sales workers .....	2,699	196	1,120	1,383	1,044	149	190	30.3	41.1
Clerical workers .....	13,803	478	2,674	10,651	9,253	900	498	35.1	39.4
<b>Blue-collar workers</b> .....	5,378	456	522	4,400	3,681	451	268	36.6	39.9
Craft and kindred workers .....	714	51	77	586	428	86	72	37.7	41.3
Operatives, except transport .....	3,925	331	233	3,361	2,894	315	152	37.3	39.5
Transport equipment operatives .....	288	23	104	161	113	25	23	31.8	42.1
Nonfarm laborers .....	451	50	109	292	244	25	23	32.6	40.0
<b>Service workers</b> .....	7,605	766	2,949	3,890	3,155	370	365	30.1	41.0
Private household .....	930	101	535	294	219	29	46	23.6	43.4
Other service workers .....	6,675	664	2,414	3,597	2,937	341	319	31.0	40.8



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

[Numbers in thousands]

Employment status	September 1980								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population .....	7,509	3,819	3,690	6,229	3,176	3,053	1,280	643	637
Civilian labor force .....	1,174	681	493	1,101	623	479	73	58	15
Employed .....	1,010	592	418	971	555	417	39	37	1
Agriculture .....	153	119	34	147	113	34	5	5	--
Nonagricultural industries .....	857	473	384	824	442	382	33	32	2
Unemployed .....	164	89	75	130	68	62	34	21	13
Unemployment rate .....	14.0	13.1	15.2	11.8	10.9	12.9	(1)	(1)	(1)
Not in labor force .....	6,335	3,138	3,197	5,128	2,553	2,575	1,207	585	623
Keeping house .....	73	9	64	60	8	52	13	1	12
Going to school .....	5,949	2,970	2,979	4,826	2,415	2,411	1,123	555	568
Unable to work .....	8	8	--	9	8	--	--	--	--
All other reasons .....	305	151	153	234	122	111	71	29	42

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

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

Class of worker and occupation	September 1980					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
<b>CLASS OF WORKER</b>						
<b>Total</b> .....	1,010	592	418	100.0	100.0	100.0
Nonagricultural industries .....	857	473	384	84.9	79.8	91.9
Wage and salary workers .....	788	418	370	78.0	70.5	88.5
Private household workers .....	276	87	190	27.3	14.7	45.5
Government workers .....	28	24	5	2.8	4.0	1.2
Other wage and salary workers .....	483	308	175	47.8	51.9	41.9
Self-employed workers .....	65	53	11	6.4	8.9	2.6
Unpaid family workers .....	5	2	3	.5	.3	.7
Agriculture .....	153	119	34	15.1	20.1	8.1
Wage and salary workers .....	78	52	26	7.7	8.8	6.2
Self-employed workers .....	35	32	3	3.5	5.4	.7
Unpaid family workers .....	40	35	5	4.0	5.9	1.2
<b>OCCUPATION</b>						
<b>Total</b> .....	1,010	592	418	100.0	100.0	100.0
White-collar workers .....	263	185	78	26.1	31.3	18.6
Professional and technical .....	4	2	2	.4	.3	.5
Managers and administrators, except farm .....	3	2	1	.3	.3	.2
Sales workers .....	205	159	47	20.3	26.9	11.2
Clerical workers .....	50	22	28	5.0	3.7	6.7
Blue-collar workers .....	222	205	17	22.0	34.7	4.0
Craft and kindred workers .....	13	14	--	1.3	2.4	--
Operatives, except transport .....	20	15	6	2.0	2.5	1.4
Transport equipment operatives .....	3	3	--	.3	.5	--
Nonfarm laborers .....	186	173	13	18.5	29.3	5.1
Service workers .....	408	118	290	40.5	20.0	69.0
Private household workers .....	203	17	186	20.1	2.9	44.3
Other service workers .....	205	101	104	20.3	17.1	24.8
Farm workers .....	116	84	33	11.5	14.2	7.9
Farmers and farm managers .....	4	3	1	.4	.5	.2
Farm laborers and supervisors .....	112	80	32	11.1	13.5	7.6

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

Employment status, sex, and age	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	164,106	164,408	164,682	164,898	165,101	165,298	165,506	165,693	165,886	166,105	166,391	166,578	166,789
Armed Forces <sup>1</sup> .....	2,092	2,093	2,092	2,089	2,081	2,086	2,090	2,092	2,088	2,092	2,099	2,114	2,121
Civilian noninstitutional population <sup>1</sup> .....	162,013	162,315	162,589	162,809	163,020	163,211	163,416	163,601	163,799	164,013	164,293	164,464	164,667
Civilian labor force .....	103,494	103,595	103,652	103,999	104,229	104,260	104,094	104,419	105,142	104,542	105,203	105,025	105,034
Percent of civilian population .....	63.9	63.8	63.8	63.9	63.9	63.9	63.7	63.8	64.2	63.7	64.0	63.9	63.8
Employed .....	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154	96,988	96,537	96,996	97,006	97,207
Percent of total population .....	59.4	59.3	59.3	59.4	59.2	59.3	59.0	58.6	58.5	58.1	58.3	58.2	58.3
Agriculture .....	3,364	3,494	3,385	3,359	3,270	3,326	3,358	3,242	3,379	3,191	3,257	3,180	3,442
Nonagricultural industries .....	94,140	94,180	94,223	94,553	94,534	94,626	94,298	93,912	93,609	93,346	93,739	93,826	93,765
Unemployed .....	5,990	6,121	6,044	6,087	6,425	6,307	6,438	7,265	8,154	8,006	8,207	8,019	7,827
Unemployment rate .....	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0	7.8	7.7	7.8	7.6	7.5
Not in labor force .....	58,519	58,710	58,937	58,810	58,791	58,951	59,322	59,182	58,657	59,471	59,091	59,439	59,633
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	70,205	70,360	70,487	70,594	70,695	70,792	70,896	70,988	71,083	71,190	71,326	71,430	71,544
Civilian noninstitutional population <sup>1</sup> .....	68,522	68,697	68,804	68,940	69,047	69,140	69,238	69,329	69,428	69,532	69,664	69,756	69,864
Civilian labor force .....	54,735	54,760	54,709	54,781	54,855	55,038	54,996	55,114	55,220	55,220	55,398	55,474	55,547
Percent of civilian population .....	79.9	79.7	79.5	79.5	79.4	79.6	79.4	79.5	79.9	79.4	79.5	79.5	79.5
Employed .....	52,453	52,443	52,374	52,478	52,279	52,531	52,300	51,868	51,796	51,510	51,668	51,792	51,803
Percent of total population .....	74.7	74.5	74.3	74.3	73.9	74.2	73.8	73.1	72.9	72.4	72.4	72.5	72.4
Agriculture .....	2,377	2,371	2,438	2,427	2,387	2,435	2,394	2,320	2,384	2,270	2,292	2,286	2,398
Nonagricultural industries .....	50,076	50,072	49,936	50,051	49,892	50,096	49,906	49,548	49,412	49,240	49,376	49,506	49,405
Unemployed .....	2,282	2,317	2,335	2,303	2,577	2,507	2,696	3,246	3,671	3,710	3,730	3,682	3,744
Unemployment rate .....	4.2	4.2	4.3	4.2	4.7	4.6	4.9	5.9	6.6	6.7	6.7	6.6	6.7
Not in labor force .....	13,787	13,937	14,095	14,159	14,192	14,102	14,242	14,215	13,961	14,312	14,266	14,282	14,317
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	77,245	77,429	77,547	77,666	77,779	77,890	78,005	78,110	78,219	78,340	78,493	78,607	78,732
Civilian noninstitutional population <sup>1</sup> .....	77,124	77,308	77,426	77,542	77,656	77,766	77,876	77,981	78,090	78,211	78,360	78,473	78,598
Civilian labor force .....	39,239	39,362	39,445	39,659	39,878	39,857	39,751	40,137	40,246	40,125	40,471	40,589	40,297
Percent of civilian population .....	50.9	50.9	50.9	51.1	51.4	51.3	51.0	51.5	51.5	51.3	51.6	51.7	51.3
Employed .....	37,075	37,112	37,248	37,402	37,574	37,604	37,496	37,602	37,576	37,530	37,769	37,961	37,824
Percent of total population .....	48.0	47.9	48.0	48.2	48.3	48.3	48.1	48.1	48.0	47.9	48.1	48.3	48.0
Agriculture .....	628	572	612	582	540	567	582	552	616	541	565	548	607
Nonagricultural industries .....	36,447	36,540	36,636	36,820	37,034	37,037	36,914	37,051	36,960	36,989	37,204	37,413	37,216
Unemployed .....	2,164	2,250	2,197	2,257	2,304	2,254	2,255	2,534	2,670	2,596	2,702	2,628	2,473
Unemployment rate .....	5.5	5.7	5.6	5.7	5.8	5.7	5.7	6.3	6.6	6.5	6.7	6.5	6.1
Not in labor force .....	37,985	37,937	37,981	37,883	37,778	37,909	38,125	37,844	37,844	38,086	37,889	37,884	38,301
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,655	16,659	16,648	16,638	16,627	16,616	16,606	16,595	16,584	16,575	16,572	16,581	16,512
Civilian noninstitutional population <sup>1</sup> .....	16,367	16,370	16,360	16,326	16,317	16,305	16,302	16,291	16,281	16,271	16,268	16,235	16,205
Civilian labor force .....	9,520	9,473	9,498	9,559	9,497	9,365	9,346	9,168	9,429	9,197	9,334	8,962	9,190
Percent of civilian population .....	58.2	57.9	58.1	58.6	58.2	57.4	57.3	56.3	57.9	56.5	57.4	55.2	56.7
Employed .....	7,976	7,919	7,986	8,032	7,952	7,818	7,859	7,683	7,616	7,497	7,560	7,253	7,580
Percent of total population .....	47.9	47.5	48.0	48.3	47.8	47.1	47.3	46.3	45.9	45.2	45.6	43.8	45.9
Agriculture .....	359	331	335	350	344	325	381	370	379	380	401	346	437
Nonagricultural industries .....	7,617	7,588	7,651	7,682	7,608	7,493	7,478	7,313	7,237	7,117	7,159	6,907	7,143
Unemployed .....	1,544	1,554	1,512	1,527	1,545	1,547	1,487	1,485	1,813	1,700	1,774	1,709	1,610
Unemployment rate .....	16.2	16.4	15.9	16.0	16.3	16.5	15.9	16.2	19.2	18.5	19.0	19.1	17.5
Not in labor force .....	6,847	6,837	6,862	6,767	6,820	6,940	6,956	7,123	6,852	7,074	6,934	7,273	7,015

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

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

## HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

Full- and part-time status	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>FULL TIME</b>													
Total, 16 years and over:													
Civilian labor force	88,134	88,394	88,469	88,576	88,627	88,747	88,604	89,121	89,852	89,152	89,438	89,291	89,917
Employed	63,419	63,598	63,699	63,785	63,581	63,805	63,436	63,246	63,112	62,532	62,658	62,691	63,387
Unemployed	4,715	4,796	4,770	4,791	5,046	4,942	5,168	5,875	6,740	6,621	6,781	6,600	6,530
Unemployment rate	5.3	5.4	5.4	5.4	5.7	5.6	5.8	6.6	7.5	7.4	7.6	7.4	7.3
<b>PART TIME</b>													
Total, 16 years and over:													
Civilian labor force	15,275	15,165	15,158	15,411	15,666	15,551	15,398	15,290	15,266	15,511	15,911	15,720	15,037
Employed	13,987	13,822	13,906	14,102	14,302	14,168	14,123	13,927	13,849	14,144	14,528	14,373	13,742
Unemployed	1,288	1,343	1,252	1,309	1,364	1,383	1,275	1,363	1,417	1,367	1,384	1,347	1,295
Unemployment rate	8.4	8.9	8.3	8.5	8.7	8.9	8.3	8.9	9.3	8.8	8.7	8.6	8.6

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

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

(Numbers in thousands)

Race, sex, and age	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>WHITE</b>													
Total, 16 years and over:													
Civilian labor force	91,082	91,147	91,242	91,579	91,852	91,977	91,821	92,083	92,535	92,096	92,456	92,294	92,337
Employed	66,425	66,454	66,571	66,894	66,895	67,081	66,822	66,385	66,148	65,792	66,063	65,981	66,315
Unemployed	4,657	4,693	4,671	4,685	4,957	4,896	4,999	5,698	6,386	6,303	6,392	6,313	6,021
Unemployment rate	5.1	5.1	5.1	5.1	5.4	5.3	5.4	6.2	6.9	6.8	6.9	6.8	6.5
Males, 20 years and over:													
Civilian labor force	48,727	48,752	48,754	48,811	48,964	49,170	49,093	49,201	49,525	49,323	49,388	49,373	49,437
Employed	46,920	46,948	46,939	47,025	46,950	47,205	46,922	46,610	46,597	46,366	46,420	46,453	46,519
Unemployed	1,807	1,804	1,815	1,786	2,014	1,964	2,171	2,591	2,928	2,957	2,967	2,920	2,919
Unemployment rate	3.7	3.7	3.7	3.7	4.1	4.0	4.4	5.3	5.9	6.0	6.0	5.9	5.9
Females, 20 years and over:													
Civilian labor force	33,858	33,946	33,979	34,205	34,411	34,444	34,381	34,668	34,650	34,589	34,785	34,916	34,768
Employed	32,223	32,249	32,310	32,492	32,654	32,668	32,704	32,757	32,649	32,589	32,743	32,883	32,868
Unemployed	1,635	1,697	1,669	1,713	1,757	1,776	1,677	1,911	2,001	2,000	2,042	2,032	1,900
Unemployment rate	4.8	5.0	4.9	5.0	5.1	5.2	4.9	5.5	5.8	5.8	5.9	5.8	5.5
Both sexes, 16 to 19 years:													
Civilian labor force	8,497	8,449	8,509	8,563	8,477	8,363	8,347	8,214	8,359	8,183	8,283	8,006	8,131
Employed	7,282	7,257	7,322	7,377	7,291	7,207	7,196	7,018	6,902	6,837	6,900	6,645	6,928
Unemployed	1,215	1,192	1,187	1,186	1,186	1,156	1,151	1,196	1,457	1,346	1,383	1,361	1,203
Unemployment rate	14.3	14.1	13.9	13.9	14.0	13.8	13.8	14.6	17.4	16.4	16.7	17.0	14.8
<b>BLACK AND OTHER</b>													
Total, 16 years and over:													
Civilian labor force	12,404	12,512	12,391	12,432	12,453	12,362	12,266	12,319	12,559	12,446	12,739	12,650	12,680
Employed	11,063	11,076	11,044	11,024	10,979	10,937	10,823	10,771	10,813	10,751	10,932	10,930	10,882
Unemployed	1,341	1,436	1,347	1,408	1,474	1,424	1,443	1,549	1,746	1,695	1,807	1,719	1,798
Unemployment rate	10.8	11.5	10.9	11.3	11.8	11.5	11.8	12.6	13.9	13.6	14.2	13.6	14.2
Males, 20 years and over:													
Civilian labor force	5,989	6,003	5,927	5,954	5,925	5,914	5,883	5,897	5,922	5,945	6,049	6,084	6,052
Employed	5,510	5,486	5,429	5,439	5,358	5,368	5,334	5,254	5,211	5,195	5,278	5,311	5,237
Unemployed	479	517	498	515	567	546	548	643	711	750	771	773	815
Unemployment rate	8.0	8.6	8.4	8.6	9.6	9.2	9.3	10.9	12.0	12.6	12.7	12.7	13.5
Females, 20 years and over:													
Civilian labor force	5,388	5,476	5,455	5,467	5,493	5,414	5,394	5,477	5,577	5,508	5,633	5,636	5,563
Employed	4,858	4,920	4,937	4,921	4,944	4,928	4,826	4,852	4,915	4,905	4,984	5,037	4,987
Unemployed	530	556	518	546	549	486	568	624	661	603	649	598	576
Unemployment rate	9.8	10.2	9.5	10.0	10.0	9.0	10.5	11.4	11.9	10.9	11.5	10.6	10.4
Both sexes, 16 to 19 years:													
Civilian labor force	1,027	1,033	1,009	1,011	1,035	1,034	990	946	1,060	993	1,057	930	1,065
Employed	695	670	678	664	677	642	663	664	687	651	670	582	658
Unemployed	332	363	331	347	358	392	327	282	373	342	387	348	407
Unemployment rate	32.3	35.1	32.8	34.3	34.6	37.9	33.0	29.8	35.2	34.4	36.6	37.4	38.2

# HOUSEHOLD DATA SEASONALLY ADJUSTED

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

[Unemployment rates]

Category	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0	7.8	7.7	7.8	7.6	7.5
Males, 20 years and over .....	4.2	4.2	4.3	4.2	4.7	4.6	4.9	5.9	6.6	6.7	6.7	6.6	6.7
Females, 20 years and over .....	5.5	5.7	5.6	5.7	5.8	5.7	5.7	6.3	6.6	6.5	6.7	6.5	6.1
Both sexes, 16-19 years .....	16.2	16.4	15.9	16.0	16.3	16.5	15.9	16.2	19.2	18.5	19.0	19.1	17.5
White .....	5.1	5.1	5.1	5.1	5.4	5.3	5.4	6.2	6.9	6.8	6.9	6.8	6.5
Black and other .....	10.8	11.5	10.9	11.3	11.8	11.5	11.8	12.6	13.9	13.6	14.2	13.6	14.2
Married men, spouse present .....	2.9	2.9	2.9	2.8	3.4	3.1	3.4	4.1	4.7	4.9	5.1	4.9	4.8
Married women, spouse present .....	4.8	5.2	4.8	5.0	5.2	5.4	5.3	5.7	6.3	6.1	6.2	6.1	5.6
Women who maintain families .....	7.7	8.4	8.4	8.4	9.2	8.5	8.7	9.3	8.3	8.4	8.9	8.9	8.5
Full-time workers .....	5.3	5.4	5.4	5.4	5.7	5.6	5.8	6.6	7.5	7.4	7.6	7.4	7.3
Part-time workers .....	8.4	8.9	8.3	8.5	8.7	8.9	8.3	8.9	9.3	8.8	8.7	8.6	8.6
Unemployed 15 weeks and over <sup>1</sup> .....	1.1	1.2	1.1	1.2	1.3	1.2	1.3	1.6	1.6	1.7	1.8	2.1	2.2
Labor force time lost <sup>2</sup> .....	6.2	6.4	6.4	6.4	6.7	6.6	6.8	7.5	8.8	8.3	8.5	8.3	8.2
<b>OCCUPATION</b>													
White-collar workers .....	3.3	3.4	3.2	3.3	3.4	3.4	3.3	3.7	3.9	3.7	3.7	3.7	3.7
Professional and technical .....	2.4	2.7	2.4	2.3	2.2	2.3	2.3	2.4	2.7	2.6	2.4	2.3	2.4
Managers and administrators, except farm .....	2.2	2.2	1.9	2.0	1.9	2.2	2.4	2.6	2.7	2.4	2.5	2.4	2.4
Sales workers .....	3.8	3.8	3.7	3.8	4.4	4.5	4.0	4.7	4.5	4.4	4.2	4.1	4.2
Clerical workers .....	4.5	4.7	4.4	4.6	4.8	4.7	4.5	5.1	5.4	5.3	5.4	5.4	5.4
Blue-collar workers .....	7.1	7.2	7.5	7.2	8.0	7.7	8.0	9.7	11.3	11.5	11.5	11.4	10.9
Craft and kindred workers .....	4.3	4.6	4.9	4.4	4.9	4.8	5.4	6.7	8.1	8.0	7.4	8.1	7.7
Operatives, except transport .....	9.0	9.1	9.0	9.0	9.9	9.2	9.3	11.6	14.0	13.8	14.6	13.6	13.0
Transport equipment operatives .....	6.1	5.6	5.2	5.0	6.9	6.7	6.6	8.9	9.0	10.5	10.5	10.0	10.6
Nonfarm laborers .....	11.0	10.7	12.2	12.2	12.3	12.0	13.0	14.1	15.4	16.2	16.1	16.5	15.1
Service workers .....	6.7	6.8	6.6	6.6	6.9	6.9	7.1	8.0	8.5	8.1	8.4	8.6	8.1
Farm workers .....	4.1	4.3	4.5	4.3	4.4	3.9	4.0	5.0	4.8	4.2	4.8	5.6	4.3
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	5.8	5.9	5.8	5.8	6.2	6.0	6.2	7.1	8.2	8.3	8.2	8.0	7.8
Construction .....	9.6	9.9	10.2	10.3	10.8	10.5	13.0	15.1	17.5	16.5	16.1	18.3	16.5
Manufacturing .....	6.0	6.0	5.9	5.9	6.7	6.4	6.5	7.9	9.9	9.9	10.3	9.3	9.1
Durable goods .....	5.3	5.5	5.6	5.5	6.7	6.3	6.4	8.3	10.5	11.2	11.2	10.2	10.1
Nondurable goods .....	7.1	6.8	6.3	6.4	6.8	6.7	6.7	7.4	8.8	8.0	8.8	7.9	7.7
Transportation .....	4.0	3.8	4.2	4.1	4.4	4.4	3.8	4.6	5.1	5.2	5.8	5.7	5.4
Wholesale and retail trade .....	6.4	6.4	6.5	6.4	6.6	6.4	6.3	7.0	7.6	8.0	7.5	7.6	7.6
Finance and service industries .....	4.7	4.9	4.6	4.7	4.6	4.6	4.9	5.1	5.7	5.7	5.7	5.6	5.3
Government workers .....	3.3	4.0	3.6	3.6	3.8	4.0	4.2	4.4	4.2	3.5	4.1	4.0	4.1
Agricultural wage and salary workers .....	10.0	9.9	10.1	9.4	10.3	9.2	10.2	11.9	11.7	9.7	10.8	13.8	10.9

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

as a percent of potentially available labor force hours.

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

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

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

[Numbers in thousands]

Weeks of unemployment	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>DURATION</b>													
Less than 5 weeks .....	2,778	2,955	2,919	2,916	3,184	2,995	2,995	3,309	3,872	3,333	3,363	3,268	2,957
5 to 14 weeks .....	2,035	1,963	1,869	1,966	1,907	2,081	2,169	2,391	2,697	2,922	2,700	2,490	2,613
15 weeks and over .....	1,152	1,195	1,191	1,230	1,334	1,286	1,363	1,629	1,722	1,766	1,915	2,184	2,326
15 to 26 weeks .....	644	678	660	711	795	790	776	953	1,014	1,027	1,057	1,259	1,397
27 weeks and over .....	508	517	531	519	539	496	587	676	709	739	858	925	930
Average (mean) duration, in weeks .....	10.7	10.5	10.6	10.5	10.5	10.7	11.0	11.3	10.5	11.7	11.6	12.6	13.1
Median duration, in weeks .....	5.8	5.5	5.3	5.5	5.2	5.8	5.9	5.7	5.7	6.4	7.1	7.5	8.2
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	46.6	48.3	48.8	47.7	49.6	47.1	45.9	45.1	46.7	41.6	42.2	41.2	37.4
5 to 14 weeks .....	34.1	32.1	31.3	32.2	29.7	32.7	33.2	32.6	32.5	36.4	33.8	31.3	33.1
15 weeks and over .....	19.3	19.5	19.9	20.1	20.8	20.2	20.9	22.2	20.8	22.0	24.0	27.5	29.5
15 to 26 weeks .....	10.8	11.1	11.0	11.6	12.4	12.4	11.9	13.0	12.2	12.8	13.2	15.9	17.7
27 weeks and over .....	8.5	8.5	8.9	8.5	8.4	7.8	9.0	9.2	8.5	9.2	10.8	11.6	11.8

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

Sex and age	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>Total, 16 years and over.....</b>	5.8	5.9	5.8	5.9	6.2	6.0	6.2	7.0	7.8	7.7	7.8	7.6	7.5
16 to 19 years .....	16.2	16.4	15.9	16.0	16.3	16.5	15.9	16.2	19.2	18.5	19.0	19.1	17.5
16 to 17 years .....	16.9	18.4	17.3	18.0	19.0	18.7	17.4	18.7	21.7	19.8	20.9	22.8	19.9
18 to 19 years .....	15.6	15.0	14.7	14.5	14.0	15.1	14.7	14.4	17.7	18.0	17.7	16.6	15.8
20 to 24 years .....	9.2	9.6	8.8	9.8	10.1	9.5	9.7	11.4	12.7	12.4	12.3	11.9	11.9
25 years and over .....	3.9	4.0	4.0	3.8	4.2	4.1	4.4	5.0	5.5	5.5	5.7	5.5	5.4
25 to 54 years .....	4.1	4.2	4.3	4.1	4.4	4.5	4.7	5.4	5.9	6.0	6.1	5.9	6.0
55 years and over .....	2.9	3.0	2.7	2.7	3.5	2.8	2.8	3.4	3.6	3.4	3.5	3.6	3.4
<b>Males, 16 years and over.....</b>	5.2	5.2	5.2	5.2	5.7	5.5	5.7	6.7	7.7	7.8	7.8	7.7	7.7
16 to 19 years .....	15.1	15.7	15.8	15.6	16.2	15.6	14.8	16.1	19.7	19.5	19.7	20.2	18.6
16 to 17 years .....	16.7	17.1	17.8	17.9	19.0	18.0	15.9	18.3	22.0	21.8	20.8	24.6	21.3
18 to 19 years .....	15.3	14.4	14.0	13.6	13.9	14.1	14.0	14.2	17.9	19.3	18.7	17.0	16.6
20 to 24 years .....	8.0	9.5	8.4	9.4	10.4	9.9	10.4	12.3	13.7	13.8	13.4	13.9	13.5
25 years and over .....	3.3	3.4	3.5	3.2	3.7	3.6	3.9	4.7	5.3	5.5	5.6	5.4	5.6
25 to 54 years .....	3.6	3.5	3.8	3.4	3.8	3.8	4.2	5.0	5.7	5.8	6.1	5.7	6.2
55 years and over .....	2.8	2.8	2.6	2.6	3.5	2.6	2.7	3.4	3.5	3.8	3.9	4.0	3.5
<b>Females, 16 years and over.....</b>	6.6	6.9	6.6	6.8	6.8	6.8	6.8	7.3	7.8	7.5	7.8	7.6	7.1
16 to 19 years .....	16.4	17.2	16.1	16.4	16.3	17.6	17.3	16.3	18.7	17.3	18.2	17.8	16.3
16 to 17 years .....	17.2	19.8	16.7	18.0	19.1	19.5	19.2	19.1	21.4	17.6	20.9	20.7	18.3
18 to 19 years .....	15.9	15.6	15.5	15.5	14.2	16.2	15.6	14.6	17.5	16.6	16.6	16.1	15.0
20 to 24 years .....	9.6	9.7	9.3	10.2	9.8	9.1	9.0	10.2	11.6	10.8	11.1	9.7	10.1
25 years and over .....	4.6	4.9	4.7	4.7	4.9	4.9	5.0	5.5	5.7	5.6	5.7	5.7	5.3
25 to 54 years .....	5.0	5.2	5.0	5.1	5.2	5.4	5.5	6.0	6.1	6.1	6.2	6.2	5.8
55 years and over .....	2.9	3.4	2.9	2.9	3.4	3.0	2.9	3.4	3.6	2.8	3.0	3.0	3.2

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

[Numbers in thousands]

Reason for unemployment	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>NUMBER OF UNEMPLOYED</b>													
<b>Both sexes, 16 years and over:</b>													
Job losers .....	2,632	2,731	2,729	2,728	2,988	2,907	3,047	3,611	4,301	4,625	4,558	4,360	4,473
On layoff .....	855	929	987	944	1,019	1,031	1,129	1,424	1,944	2,117	1,975	1,692	1,809
Other job losers .....	1,777	1,802	1,742	1,784	1,969	1,876	1,918	2,188	2,357	2,508	2,583	2,668	2,664
Job leavers .....	825	835	845	800	779	813	788	926	992	898	857	897	842
Reentrants .....	1,760	1,762	1,698	1,771	1,797	1,784	1,803	1,967	2,015	1,822	1,868	1,895	1,817
New entrants .....	801	804	736	858	811	827	805	743	884	863	930	867	858
<b>PERCENT DISTRIBUTION</b>													
<b>Total unemployed .....</b>	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 .....	43.7	44.5	45.4	44.3	46.9	45.9	47.3	49.8	52.5	56.3	55.5	54.4	56.0
On layoff .....	14.2	15.2	16.4	15.3	16.0	16.3	17.5	19.6	23.7	25.8	24.0	21.1	22.6
Other job losers .....	29.5	29.4	29.0	29.0	30.9	29.6	29.8	30.2	28.8	30.6	31.5	33.3	33.3
Job leavers .....	13.7	13.6	14.1	13.0	12.2	12.8	12.2	12.8	12.1	10.9	10.4	11.2	10.5
Reentrants .....	29.2	28.7	28.3	28.8	28.2	28.2	28.0	27.1	24.6	22.2	22.7	23.6	22.7
New entrants .....	13.3	13.1	12.3	13.9	12.7	13.1	12.5	10.3	10.8	10.5	11.3	10.8	10.7
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	2.5	2.6	2.6	2.6	2.9	2.8	2.9	3.5	4.1	4.4	4.3	4.2	4.3
Job leavers .....	.8	.8	.8	.8	.7	.8	.8	.9	.9	.9	.8	.9	.8
Reentrants .....	1.7	1.7	1.6	1.7	1.7	1.7	1.7	1.9	1.9	1.7	1.8	1.8	1.7
New entrants .....	.8	.8	.7	.8	.8	.8	.8	.7	.8	.8	.9	.8	.8

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>Total, 16 years and over</b> .....	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154	96,988	96,537	96,996	97,006	97,207
16 to 19 years	7,976	7,919	7,986	8,032	7,952	7,818	7,859	7,683	7,616	7,497	7,560	7,253	7,580
16 to 17 years	3,335	3,251	3,315	3,320	3,247	3,120	3,185	3,039	3,033	3,038	3,068	2,771	3,009
18 to 19 years	4,665	4,674	4,694	4,717	4,726	4,722	4,660	4,640	4,566	4,440	4,500	4,460	4,604
20 to 24 years	13,949	13,675	13,920	13,837	13,819	13,846	13,749	13,624	13,575	13,376	13,527	13,540	13,535
25 years and over	75,616	75,728	75,650	76,030	76,080	76,295	76,012	75,807	75,810	75,733	75,948	76,193	76,080
25 to 54 years	61,208	61,302	61,281	61,686	61,799	61,815	61,719	61,564	61,416	61,443	61,572	61,768	61,826
55 years and over	14,381	14,417	14,368	14,350	14,292	14,464	14,326	14,298	14,325	14,277	14,351	14,469	14,259
<b>Males, 16 years and over</b> .....	56,714	56,629	56,580	56,734	56,486	56,732	56,601	55,998	55,823	55,457	55,629	55,551	55,738
16 to 19 years	4,261	4,186	4,206	4,256	4,207	4,201	4,301	4,130	4,027	3,947	3,962	3,758	3,935
16 to 17 years	1,839	1,738	1,755	1,783	1,745	1,719	1,804	1,661	1,634	1,608	1,644	1,459	1,574
18 to 19 years	2,452	2,430	2,462	2,477	2,478	2,494	2,488	2,471	2,395	2,315	2,330	2,292	2,397
20 to 24 years	7,590	7,511	7,533	7,498	7,441	7,477	7,453	7,294	7,309	7,106	7,155	7,128	7,172
25 years and over	44,912	44,924	44,796	44,966	44,883	45,070	44,833	44,557	44,535	44,422	44,531	44,667	44,626
25 to 54 years	36,052	36,100	36,020	36,206	36,161	36,136	36,036	35,818	35,747	35,707	35,787	35,873	35,964
55 years and over	8,844	8,793	8,782	8,759	8,723	8,904	8,842	8,764	8,784	8,728	8,734	8,782	8,666
<b>Females, 16 years and over</b> .....	40,790	40,645	41,028	41,178	41,318	41,221	41,054	41,156	41,165	41,079	41,367	41,455	41,469
16 to 19 years	3,715	3,733	3,780	3,776	3,744	3,617	3,558	3,554	3,589	3,549	3,598	3,495	3,645
16 to 17 years	1,496	1,493	1,560	1,537	1,502	1,401	1,381	1,378	1,399	1,430	1,424	1,312	1,435
18 to 19 years	2,213	2,244	2,232	2,240	2,248	2,228	2,172	2,169	2,171	2,125	2,170	2,168	2,207
20 to 24 years	6,359	6,344	6,387	6,339	6,377	6,369	6,296	6,331	6,266	6,270	6,372	6,413	6,363
25 years and over	30,704	30,604	30,854	31,064	31,197	31,225	31,178	31,250	31,275	31,311	31,417	31,525	31,454
25 to 54 years	25,156	25,202	25,261	25,480	25,638	25,679	25,683	25,746	25,669	25,735	25,784	25,895	25,862
55 years and over	5,537	5,602	5,586	5,591	5,569	5,560	5,484	5,533	5,541	5,549	5,617	5,687	5,593

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

(In thousands)

Sex and age	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>Total, 16 years and over</b> .....	5,970	6,121	6,044	6,087	6,425	6,307	6,438	7,265	8,154	8,006	8,207	8,019	7,827
16 to 19 years	1,544	1,554	1,512	1,527	1,545	1,547	1,487	1,485	1,813	1,700	1,774	1,709	1,610
16 to 17 years	680	732	692	728	764	716	671	698	841	752	809	819	747
18 to 19 years	860	825	811	802	772	841	806	780	983	976	967	887	865
20 to 24 years	1,413	1,470	1,346	1,505	1,554	1,458	1,482	1,748	1,982	1,898	1,898	1,836	1,835
25 years and over	3,036	3,140	3,168	3,040	3,326	3,300	3,463	4,029	4,374	4,423	4,552	4,462	4,384
25 to 54 years	2,647	2,658	2,744	2,650	2,818	2,899	3,064	3,518	3,836	3,900	4,032	3,905	3,943
55 years and over	422	449	403	400	512	412	410	503	529	508	528	542	500
<b>Males, 16 years and over</b> .....	3,098	3,098	3,124	3,089	3,392	3,283	3,441	4,040	4,656	4,669	4,703	4,632	4,645
16 to 19 years	816	781	789	786	815	776	745	794	985	959	973	950	901
16 to 17 years	370	363	380	390	410	377	342	373	461	447	432	476	426
18 to 19 years	442	410	402	391	399	411	405	409	521	553	535	470	476
20 to 24 years	734	789	692	782	860	817	863	1,028	1,163	1,138	1,103	1,146	1,121
25 years and over	1,552	1,505	1,642	1,505	1,719	1,680	1,826	2,214	2,500	2,573	2,641	2,550	2,622
25 to 54 years	1,327	1,322	1,405	1,282	1,410	1,435	1,573	1,886	2,155	2,217	2,317	2,183	2,364
55 years and over	254	254	237	231	314	242	246	311	322	347	354	365	317
<b>Females, 16 years and over</b> .....	2,892	3,023	2,920	2,998	3,034	3,025	2,997	3,225	3,498	3,337	3,503	3,387	3,182
16 to 19 years	728	773	723	741	730	771	742	691	828	741	801	759	709
16 to 17 years	310	369	312	338	354	339	329	325	380	305	377	343	321
18 to 19 years	418	415	409	411	373	430	401	371	462	423	432	417	389
20 to 24 years	679	681	654	723	694	641	620	721	819	761	795	690	714
25 years and over	1,484	1,575	1,526	1,535	1,607	1,621	1,637	1,815	1,874	1,850	1,911	1,912	1,762
25 to 54 years	1,320	1,376	1,339	1,368	1,408	1,465	1,491	1,631	1,682	1,684	1,715	1,722	1,579
55 years and over	168	195	166	169	198	170	165	192	207	162	174	178	183

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

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

(In thousands)

Category	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
<b>CHARACTERISTIC</b>													
Total, 16 years and over .....	97,504	97,474	97,608	97,912	97,804	97,953	97,656	97,154	96,988	96,537	96,996	97,006	97,207
Married men, spouse present .....	59,198	59,124	58,845	58,924	58,749	58,955	58,745	58,342	58,147	58,193	57,999	57,910	57,969
Married women, spouse present .....	22,937	22,919	22,940	23,027	23,111	23,178	23,202	23,080	23,155	23,144	23,097	23,162	23,017
<b>OCCUPATION</b>													
White-collar workers .....	49,816	49,738	49,912	49,911	50,313	50,448	50,302	50,405	50,606	50,861	51,114	51,413	51,149
Professional and technical .....	15,141	15,057	15,131	15,272	15,337	15,444	15,397	15,542	15,551	15,712	15,741	15,761	15,501
Managers and administrators, except farm .....	10,659	10,639	10,617	10,535	10,608	10,971	10,755	10,745	10,882	10,911	11,046	11,153	11,018
Sales workers .....	6,181	6,261	6,362	6,346	6,452	6,185	6,113	5,988	6,022	5,981	6,128	6,124	6,347
Clerical workers .....	17,835	17,781	17,802	17,758	17,915	17,848	18,037	18,129	18,152	18,256	18,199	18,375	18,284
Blue-collar workers .....	32,209	32,205	32,110	32,302	31,882	31,754	31,670	31,127	30,681	30,243	30,149	29,983	30,444
Craft and kindred workers .....	12,993	13,001	12,925	13,041	12,814	12,728	12,767	12,773	12,523	12,301	12,382	12,233	12,546
Operatives, except transport Transport equipment operatives .....	10,964	10,967	10,963	11,042	10,678	10,661	10,579	10,408	10,336	10,131	10,134	10,066	10,196
Nonfarm laborers .....	3,617	3,593	3,628	3,635	3,616	3,571	3,558	3,483	3,421	3,395	3,335	3,474	3,434
Service workers .....	4,635	4,644	4,594	4,584	4,774	4,795	4,767	4,463	4,402	4,416	4,299	4,209	4,268
Farm workers .....	12,859	12,937	12,899	12,970	12,979	13,080	12,981	13,034	12,932	12,930	13,045	12,917	12,917
Farm workers .....	2,722	2,695	2,718	2,694	2,660	2,764	2,733	2,658	2,745	2,606	2,689	2,601	2,779
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers .....	1,399	1,381	1,475	1,451	1,428	1,417	1,449	1,370	1,405	1,365	1,352	1,263	1,418
Self-employed workers .....	1,642	1,602	1,622	1,596	1,554	1,648	1,600	1,591	1,662	1,590	1,631	1,648	1,706
Unpaid family workers .....	325	313	310	310	293	283	300	281	289	269	292	273	315
<b>Nonagricultural industries:</b>													
Wage and salary workers .....	86,912	86,982	87,020	87,384	87,578	87,419	87,221	86,741	86,631	86,257	86,407	86,508	86,331
Government .....	15,407	15,423	15,358	15,397	15,414	15,540	15,622	15,668	15,799	15,891	15,760	15,495	15,538
Private industries .....	71,505	71,559	71,662	71,987	72,163	71,879	71,599	71,072	70,832	70,365	70,647	71,014	70,793
Private households .....	1,313	1,261	1,211	1,228	1,132	1,178	1,115	1,123	1,206	1,219	1,245	1,209	1,113
Other industries .....	70,192	70,298	70,451	70,759	71,031	70,702	70,484	69,949	69,625	69,147	69,402	69,805	69,679
Self-employed workers .....	6,731	6,812	6,781	6,737	6,752	6,899	6,825	6,813	6,648	6,666	6,765	6,879	7,014
Unpaid family workers .....	449	430	417	409	379	397	376	363	411	445	441	399	423
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries .....	88,723	88,638	88,617	89,180	89,454	88,985	88,585	87,660	87,680	87,910	87,454	88,270	88,243
Full-time schedules .....	73,159	73,204	72,997	73,137	73,223	73,110	72,749	71,807	71,224	71,206	70,649	71,478	71,969
Part-time for economic reasons .....	3,167	3,315	3,392	3,519	3,513	3,406	3,418	3,816	4,349	3,999	4,113	4,148	4,204
Usually work full-time .....	1,273	1,354	1,413	1,491	1,549	1,380	1,463	1,709	2,064	1,781	1,847	1,692	1,695
Usually work part-time .....	1,894	1,961	1,979	2,028	1,964	2,026	1,955	2,107	2,285	2,217	2,266	2,456	2,509
Part time for noneconomic reasons .....	12,397	12,119	12,228	12,524	12,718	12,469	12,418	12,037	12,106	12,706	12,692	12,644	12,069

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

# 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	
Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	Sept. 1979	Sept. 1980	
<b>VETERANS</b>										
Total, 20 years and over .....	8,559	8,630	8,139	8,204	7,880	7,742	259	462	3.2	5.6
20 to 24 years .....	512	290	452	265	411	228	41	37	9.1	14.0
25 to 29 years .....	7,173	7,305	6,924	7,030	6,739	6,630	185	400	2.7	5.7
30 to 34 years .....	1,880	1,660	1,798	1,555	1,737	1,401	61	154	3.4	9.9
35 to 39 years .....	3,635	3,562	3,534	3,453	3,455	3,296	79	157	2.2	4.5
40 years and over .....	1,652	2,083	1,592	2,022	1,547	1,933	45	89	2.8	4.4
40 years and over .....	874	1,035	763	909	730	884	33	25	4.3	2.8
<b>NONVETERANS</b>										
Total, 25 to 39 years .....	14,760	15,658	14,089	14,926	13,599	13,984	490	942	3.5	6.3
25 to 29 years .....	6,777	7,171	6,458	6,803	6,202	6,264	256	539	4.0	7.9
30 to 34 years .....	4,229	4,691	4,020	4,500	3,892	4,249	128	251	3.2	5.6
35 to 39 years .....	3,754	3,796	3,611	3,623	3,505	3,471	106	152	2.9	4.2

NOTE: Vietnam-era veterans are those who served between August 5, 1964 and May 1975. Nonveterans are males who have never served in the Armed Forces. Published data are limited to those

25-39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.



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

**A-44. Employment status of the noninstitutional population by sex, age, and race, seasonally adjusted**

(Numbers in thousands)

Employment status, sex, age, and race	1977		1978				1979				1980		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>TOTAL</b>													
Total noninstitutional population <sup>1</sup> .....	158,898	159,531	160,126	160,715	161,355	162,037	162,663	163,260	163,894	164,682	165,302	165,895	166,586
Armed Forces <sup>1</sup> .....	2,135	2,132	2,122	2,110	2,120	2,115	2,093	2,079	2,088	2,091	2,086	2,091	2,111
Civilian noninstitutional population <sup>1</sup> ...	156,764	157,399	158,004	158,605	159,235	159,922	160,570	161,181	161,806	162,591	163,216	163,804	164,475
Civilian labor force.....	97,638	98,584	99,136	100,173	100,777	101,538	102,315	102,357	103,238	103,749	104,194	104,701	105,087
Percent of civilian population.....	62.3	62.6	62.7	63.2	63.3	63.5	63.7	63.5	63.8	63.8	63.8	63.9	63.9
Employed.....	90,913	92,108	92,954	94,145	94,734	95,653	96,425	96,467	97,231	97,665	97,804	96,893	97,070
Percent of total population.....	57.2	57.7	58.1	58.6	58.7	59.0	59.3	59.3	59.3	59.3	59.2	58.4	58.3
Agriculture.....	3,195	3,291	3,324	3,336	3,367	3,331	3,296	3,235	3,315	3,346	3,318	3,271	3,293
Nonagricultural industries.....	87,718	88,617	89,630	90,809	91,367	92,323	93,130	93,232	93,915	94,319	94,486	93,622	93,777
Unemployed.....	6,726	6,476	6,182	6,028	6,043	5,885	5,890	5,890	6,008	6,084	6,390	7,808	8,017
Unemployment rate.....	6.9	6.6	6.2	6.0	6.0	5.8	5.8	5.8	5.8	5.9	6.1	7.5	7.6
<b>Males, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	67,641	67,951	68,238	68,520	68,831	69,184	69,491	69,786	70,100	70,487	70,794	71,087	71,433
Civilian noninstitutional population <sup>1</sup> ...	65,949	66,201	66,556	66,844	67,134	67,489	67,827	68,123	68,419	68,814	69,142	69,430	69,762
Civilian labor force.....	52,487	52,938	53,090	53,374	53,465	53,886	54,285	54,299	54,637	54,750	54,963	55,267	55,473
Percent of civilian population.....	79.6	79.9	79.8	79.8	79.6	79.8	80.0	79.7	79.9	79.6	79.5	79.6	79.5
Employed.....	49,878	50,445	50,698	51,133	51,282	51,737	52,129	52,136	52,363	52,432	52,370	51,725	51,754
Percent of total population.....	73.7	74.2	74.3	74.6	74.5	74.8	75.0	74.7	74.7	74.4	74.0	72.8	72.5
Agriculture.....	2,300	2,326	2,341	2,360	2,382	2,353	2,327	2,300	2,360	2,412	2,405	2,325	2,325
Nonagricultural industries.....	47,578	48,119	48,357	48,773	48,901	49,383	49,801	49,836	50,003	50,020	49,965	49,400	49,429
Unemployed.....	2,609	2,493	2,392	2,241	2,182	2,149	2,156	2,163	2,274	2,318	2,593	3,542	3,719
Unemployment rate.....	5.0	4.7	4.5	4.2	4.1	4.0	4.0	4.0	4.2	4.2	4.7	6.4	6.7
<b>Females, 20 years and over</b>													
Total noninstitutional population <sup>1</sup> .....	74,429	74,770	75,094	75,413	75,756	76,112	76,455	76,782	77,129	77,547	77,891	78,223	78,611
Civilian noninstitutional population <sup>1</sup> ...	74,331	74,671	74,994	75,310	75,649	76,003	76,345	76,670	77,009	77,425	77,766	78,094	78,477
Civilian labor force.....	35,834	36,276	36,687	37,265	37,657	38,041	38,393	38,562	39,192	39,489	39,829	40,169	40,452
Percent of civilian population.....	48.2	48.6	48.9	49.5	49.8	50.1	50.3	50.3	50.9	51.0	51.2	51.4	51.5
Employed.....	33,361	33,641	34,484	35,002	35,362	35,863	36,190	36,361	36,983	37,254	37,558	37,569	37,851
Percent of total population.....	44.8	45.3	45.9	46.4	46.7	47.1	47.3	47.4	47.9	48.0	48.2	48.0	48.1
Unemployed.....	2,473	2,435	2,204	2,263	2,295	2,178	2,203	2,201	2,209	2,235	2,271	2,600	2,601
Unemployment rate.....	6.9	6.7	6.0	6.1	6.1	5.7	5.7	5.6	5.7	5.7	5.7	6.5	6.4
<b>Both sexes, 16-19 years</b>													
Total noninstitutional population <sup>1</sup> .....	16,828	16,610	16,794	16,782	16,768	16,742	16,717	16,692	16,666	16,648	16,616	16,585	16,542
Civilian noninstitutional population <sup>1</sup> ...	16,484	16,468	16,454	16,452	16,452	16,429	16,398	16,389	16,377	16,352	16,308	16,281	16,236
Civilian labor force.....	9,317	9,370	9,358	9,534	9,656	9,612	9,637	9,496	9,409	9,510	9,403	9,265	9,162
Percent of civilian population.....	56.5	56.9	56.9	57.9	58.7	58.5	58.8	57.9	57.5	58.2	57.7	56.9	56.4
Employed.....	7,674	7,622	7,772	8,010	8,090	8,054	8,106	7,970	7,885	7,979	7,876	7,599	7,464
Percent of total population.....	45.6	46.5	46.3	47.7	48.2	48.1	48.5	47.7	47.3	47.9	47.4	45.8	45.1
Unemployed.....	1,643	1,548	1,586	1,524	1,565	1,558	1,530	1,526	1,524	1,531	1,526	1,666	1,698
Unemployment rate.....	17.6	16.5	16.9	16.0	16.2	16.2	15.9	16.1	16.2	16.1	16.2	18.0	18.5
<b>White</b>													
Total noninstitutional population <sup>1</sup> .....	139,620	140,107	140,568	141,028	141,526	142,034	142,521	142,977	143,462	144,102	144,574	145,022	145,535
Civilian noninstitutional population <sup>1</sup> ...	137,870	138,304	138,839	139,323	139,822	140,336	140,857	141,330	141,821	142,468	142,957	143,408	143,907
Civilian labor force.....	86,286	87,048	87,360	88,249	88,739	89,424	90,161	90,110	90,833	91,323	91,883	92,238	92,362
Percent of civilian population.....	62.6	62.9	62.9	63.3	63.5	63.7	64.0	63.8	64.0	64.1	64.3	64.3	64.2
Employed.....	81,081	82,093	82,635	83,665	84,111	84,930	85,658	85,635	86,174	86,640	86,933	86,109	86,120
Percent of total population.....	58.1	58.6	58.8	59.3	59.4	59.8	60.1	59.9	60.1	60.1	60.1	59.4	59.2
Unemployed.....	5,205	4,955	4,725	4,584	4,628	4,494	4,503	4,476	4,660	4,683	4,950	6,129	6,242
Unemployment rate.....	6.0	5.7	5.4	5.2	5.2	5.0	5.0	5.0	5.1	5.1	5.4	6.6	6.8
<b>Black and other</b>													
Total noninstitutional population <sup>1</sup> .....	19,279	19,424	19,557	19,687	19,829	20,003	20,142	20,282	20,432	20,581	20,728	20,872	21,051
Civilian noninstitutional population <sup>1</sup> ...	18,894	19,035	19,164	19,282	19,413	19,585	19,713	19,851	19,985	20,123	20,259	20,397	20,568
Civilian labor force.....	11,340	11,555	11,773	11,909	12,034	12,131	12,172	12,223	12,378	12,445	12,360	12,441	12,690
Percent of civilian population.....	60.0	60.7	61.4	61.8	62.0	61.9	61.7	61.6	61.9	61.8	61.0	61.0	61.7
Employed.....	9,800	10,030	10,313	10,480	10,611	10,742	10,781	10,823	11,023	11,048	10,913	10,778	10,915
Percent of total population.....	50.8	51.6	52.7	53.2	53.5	53.7	53.5	53.4	53.9	53.7	52.7	51.6	51.8
Unemployed.....	1,540	1,525	1,460	1,429	1,423	1,389	1,391	1,400	1,355	1,397	1,447	1,663	1,775
Unemployment rate.....	13.6	13.2	12.4	12.0	11.8	11.5	11.4	11.5	10.9	11.2	11.7	13.4	14.0

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

NOTE: Detail for the household data shown in tables A-44 through A-53 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

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

**A-45. Full- and part-time status of the civilian labor force by sex and age, seasonally adjusted**

(Numbers in thousands)

Full- and part-time status, sex, and age	1977		1978				1979				1980		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>FULL TIME</b>													
Total, 16 years and over:													
Civilian labor force	63,249	83,821	84,399	85,250	85,978	86,434	87,208	87,437	87,856	88,480	88,659	89,375	89,548
Employed <sup>1</sup>	77,888	78,704	79,546	80,574	81,263	81,909	82,669	82,875	83,170	83,694	83,607	82,963	82,912
Unemployed	5,361	5,118	4,853	4,676	4,715	4,525	4,539	4,562	4,686	4,786	5,052	6,412	6,637
Unemployment rate	6.4	6.1	5.8	5.5	5.5	5.2	5.2	5.2	5.3	5.4	5.7	7.2	7.4
Males, 20 years and over:													
Civilian labor force	49,789	50,189	50,332	50,658	50,767	51,183	51,612	51,682	51,860	51,980	52,015	52,461	52,663
Employed <sup>1</sup>	47,357	47,896	48,155	48,598	48,761	49,212	49,633	49,687	49,769	49,824	49,615	49,122	49,143
Unemployed	2,432	2,293	2,178	2,061	2,006	1,971	1,979	1,995	2,091	2,156	2,399	3,340	3,520
Unemployment rate	4.9	4.6	4.3	4.1	4.0	3.9	3.8	3.9	4.0	4.1	4.6	6.4	6.7
Females, 20 years and over:													
Civilian labor force	28,343	28,500	29,007	29,351	29,830	30,096	30,367	30,615	30,936	31,291	31,541	31,972	32,102
Employed <sup>1</sup>	26,331	26,547	27,205	27,557	27,995	28,410	28,646	28,870	29,191	29,538	29,762	29,867	29,966
Unemployed	2,012	1,953	1,802	1,794	1,834	1,686	1,722	1,745	1,745	1,753	1,778	2,105	2,135
Unemployment rate	7.1	6.9	6.2	6.1	6.1	5.6	5.7	5.7	5.6	5.6	5.6	6.6	6.7
Both sexes, 16-19 years:													
Civilian labor force	5,117	5,132	5,060	5,240	5,382	5,155	5,229	5,140	5,060	5,209	5,104	4,942	4,785
Employed <sup>1</sup>	4,200	4,261	4,187	4,419	4,506	4,287	4,391	4,318	4,209	4,332	4,230	3,975	3,802
Unemployed	917	871	873	821	875	868	838	822	850	877	875	967	981
Unemployment rate	17.9	17.0	17.3	15.7	16.3	16.8	16.0	16.0	16.8	16.8	17.1	19.6	20.5
<b>PART TIME</b>													
Total, 16 years and over:													
Civilian labor force	14,414	14,740	14,709	14,918	14,816	15,064	15,097	14,944	15,419	15,245	15,538	15,356	15,556
Employed <sup>1</sup>	13,041	13,377	13,383	13,561	13,490	13,708	13,744	13,617	14,104	13,943	14,198	13,973	14,214
Unemployed	1,373	1,363	1,326	1,357	1,326	1,356	1,354	1,327	1,316	1,301	1,341	1,382	1,342
Unemployment rate	9.5	9.2	9.0	9.1	8.9	9.0	9.0	8.9	8.5	8.5	8.6	9.0	8.6
Males, 20 years and over:													
Civilian labor force	2,707	2,747	2,734	2,749	2,685	2,698	2,671	2,649	2,763	2,761	2,923	2,850	2,747
Employed <sup>1</sup>	2,511	2,540	2,537	2,563	2,503	2,518	2,502	2,477	2,577	2,594	2,738	2,652	2,576
Unemployed	196	208	197	187	182	180	169	172	187	167	185	198	171
Unemployment rate	7.2	7.6	7.2	6.8	6.8	6.7	6.3	6.5	6.8	6.0	6.3	7.0	6.2
Females, 20 years and over:													
Civilian labor force	7,492	7,754	7,694	7,910	7,836	7,922	8,038	7,950	8,271	8,176	8,325	8,171	8,353
Employed <sup>1</sup>	7,036	7,283	7,277	7,440	7,382	7,444	7,541	7,495	7,815	7,705	7,815	7,683	7,909
Unemployed	455	471	417	471	454	478	497	455	456	472	510	488	444
Unemployment rate	6.1	6.1	5.4	6.0	5.8	6.0	6.2	5.7	5.5	5.8	6.1	6.0	5.3
Both sexes, 16-19 years:													
Civilian labor force	4,216	4,239	4,280	4,258	4,295	4,444	4,388	4,345	4,385	4,308	4,290	4,335	4,456
Employed <sup>1</sup>	3,493	3,555	3,569	3,558	3,605	3,746	3,701	3,645	3,712	3,645	3,644	3,639	3,730
Unemployed	722	684	712	700	689	698	688	700	673	663	646	696	726
Unemployment rate	17.1	16.1	16.6	16.4	16.1	15.7	15.7	16.1	15.3	15.4	15.1	16.1	16.3

<sup>1</sup> Persons on part-time schedules for economic reasons are included in the full-time employed category; unemployed persons are allocated by whether seeking full- or part-time work.

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

[Numbers in thousands]

Employment status, race, sex, and age	1977		1978				1979				1980		
	I II	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>WHITE</b>													
Total, 16 years and over:													
Civilian labor force .....	86,286	87,048	87,360	88,249	88,739	89,424	90,161	90,110	90,833	91,323	91,883	92,238	92,362
Employed .....	81,081	82,093	82,635	83,665	84,111	84,930	85,658	85,635	86,174	86,640	86,933	86,109	86,120
Unemployed .....	5,205	4,955	4,725	4,584	4,628	4,494	4,503	4,476	4,660	4,683	4,950	6,129	6,242
Unemployment rate .....	6.0	5.7	5.4	5.2	5.2	5.0	5.0	5.0	5.1	5.1	5.4	6.6	6.8
Males, 20 years and over:													
Civilian labor force .....	47,018	47,366	47,420	47,678	47,745	48,047	48,464	48,449	48,669	48,772	49,075	49,350	49,399
Employed .....	44,974	45,420	45,547	45,941	46,036	46,383	46,794	46,783	46,875	46,971	47,026	46,524	46,464
Unemployed .....	2,044	1,946	1,873	1,737	1,709	1,664	1,670	1,666	1,794	1,802	2,050	2,826	2,935
Unemployment rate .....	4.3	4.1	3.9	3.6	3.6	3.5	3.4	3.4	3.7	3.7	4.2	5.7	5.9
Females, 20 years and over:													
Civilian labor force .....	30,958	31,322	31,603	32,096	32,408	32,818	33,118	33,232	33,780	34,043	34,412	34,636	34,823
Employed .....	29,042	29,478	29,944	30,389	30,674	31,179	31,459	31,582	32,112	32,350	32,675	32,665	32,831
Unemployed .....	1,916	1,845	1,659	1,708	1,734	1,639	1,659	1,650	1,669	1,693	1,737	1,971	1,991
Unemployment rate .....	6.2	5.9	5.2	5.3	5.3	5.0	5.0	5.0	4.9	5.0	5.0	5.7	5.7
Both sexes, 16 to 19 years:													
Civilian labor force .....	8,310	8,359	8,336	8,474	8,587	8,560	8,579	8,430	8,384	8,507	8,396	8,252	8,140
Employed .....	7,064	7,195	7,144	7,335	7,401	7,369	7,404	7,270	7,187	7,319	7,231	6,919	6,824
Unemployed .....	1,246	1,164	1,193	1,139	1,186	1,191	1,174	1,160	1,197	1,188	1,164	1,333	1,316
Unemployment rate .....	15.0	13.9	14.3	13.4	13.8	13.9	13.7	13.8	14.3	14.0	13.9	16.2	16.2
<b>BLACK AND OTHER</b>													
Total, 16 years and over:													
Civilian labor force .....	11,340	11,555	11,773	11,909	12,034	12,131	12,172	12,223	12,378	12,445	12,360	12,441	12,690
Employed .....	9,800	10,030	10,313	10,480	10,611	10,742	10,781	10,823	11,023	11,048	10,913	10,778	10,915
Unemployed .....	1,540	1,525	1,460	1,429	1,423	1,389	1,391	1,400	1,355	1,397	1,447	1,663	1,775
Unemployment rate .....	13.6	13.2	12.4	12.0	11.8	11.5	11.4	11.5	10.9	11.2	11.7	13.4	14.0
Males, 20 years and over:													
Civilian labor force .....	5,482	5,565	5,661	5,707	5,725	5,827	5,830	5,853	5,969	5,961	5,907	5,921	6,062
Employed .....	4,895	5,019	5,144	5,211	5,242	5,347	5,337	5,365	5,481	5,451	5,353	5,220	5,275
Unemployed .....	587	546	516	496	483	480	494	488	487	510	554	701	786
Unemployment rate .....	10.7	9.8	9.1	8.7	8.4	8.2	8.5	8.3	8.2	8.6	9.4	11.8	13.0
Females, 20 years and over:													
Civilian labor force .....	4,855	4,973	5,089	5,159	5,235	5,244	5,277	5,321	5,394	5,466	5,434	5,520	5,611
Employed .....	4,300	4,384	4,539	4,605	4,674	4,706	4,732	4,772	4,852	4,926	4,899	4,891	5,003
Unemployed .....	555	589	550	554	560	538	545	548	541	540	534	629	608
Unemployment rate .....	11.4	11.8	10.8	10.7	10.7	10.3	10.3	10.3	10.0	9.9	9.8	11.4	10.8
Both sexes, 16 to 19 years:													
Civilian labor force .....	1,003	1,017	1,024	1,043	1,075	1,061	1,064	1,050	1,015	1,018	1,020	1,000	1,017
Employed .....	605	626	630	663	695	689	712	686	689	671	661	667	637
Unemployed .....	398	391	394	379	380	371	353	364	326	347	359	332	381
Unemployment rate .....	39.7	38.4	38.5	36.4	35.4	35.0	33.1	34.7	32.1	34.1	35.2	33.2	37.4

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

**A-47. Major unemployment indicators, seasonally adjusted**

[Unemployment rates]

Category	1977		1978				1979				1980		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>CHARACTERISTIC</b>													
Total (all civilian workers) .....	6.9	6.6	6.2	6.0	6.0	5.8	5.8	5.8	5.8	5.9	6.1	7.5	7.6
Males, 20 years and over .....	5.0	4.7	4.5	4.2	4.1	4.0	4.0	4.0	4.2	4.2	4.7	6.4	6.7
Females, 20 years and over .....	6.9	6.7	6.0	6.1	6.1	5.7	5.7	5.7	5.6	5.7	5.7	6.5	6.4
Both sexes, 16-19 years .....	17.6	16.5	16.9	16.0	16.2	16.2	15.9	16.1	16.2	16.1	16.2	18.0	18.5
White .....	6.0	5.7	5.4	5.2	5.2	5.0	5.0	5.0	5.1	5.1	5.4	6.6	6.8
Black and other .....	13.6	13.2	12.4	12.0	11.8	11.5	11.4	11.5	10.9	11.2	11.7	13.4	14.0
Married men, spouse present .....	3.4	3.3	3.0	2.8	2.7	2.5	2.6	2.6	2.9	2.9	3.3	4.6	4.9
Married women, spouse present .....	6.4	6.2	5.5	5.5	5.6	5.4	5.3	5.2	5.0	5.0	5.3	6.1	6.0
Women who maintain families .....	9.7	8.9	8.2	9.3	8.6	7.7	8.2	8.6	7.9	8.4	8.8	8.7	8.8
Full-time workers .....	6.4	6.1	5.8	5.5	5.5	5.2	5.2	5.2	5.3	5.4	5.7	7.2	7.4
Part-time workers .....	9.5	9.2	9.0	9.1	8.9	9.0	9.0	8.9	8.5	8.5	8.6	9.0	8.6
Unemployed 15 weeks and over <sup>1</sup> .....	1.9	1.8	1.6	1.4	1.3	1.2	1.2	1.2	1.1	1.2	1.3	1.6	2.0
Labor force time lost <sup>2</sup> .....	7.4	7.2	6.7	6.5	6.6	6.2	6.2	6.3	6.3	6.4	6.7	8.2	8.3
<b>OCCUPATION</b>													
White-collar workers .....	4.1	4.1	3.6	3.6	3.6	3.3	3.4	3.3	3.4	3.3	3.4	3.8	3.7
Professional and technical .....	2.9	2.8	2.7	2.6	2.5	2.7	2.4	2.3	2.5	2.4	2.3	2.6	2.4
Managers and administrators, except farm .....	2.5	2.7	2.2	2.0	2.1	2.0	2.0	2.2	2.2	2.0	2.2	2.6	2.4
Sales workers .....	5.1	4.9	4.2	4.3	4.2	3.7	4.1	4.1	3.8	3.8	4.3	4.5	4.2
Clerical workers .....	5.7	5.6	4.9	5.2	5.0	4.5	4.7	4.5	4.6	4.6	4.7	5.3	5.4
Blue-collar workers .....	7.9	7.4	7.2	6.7	6.8	6.6	6.5	6.8	7.1	7.3	7.9	10.9	11.3
Craft and kindred workers .....	5.4	5.1	5.0	4.5	4.5	4.4	4.5	4.3	4.5	4.6	5.0	7.6	7.7
Operatives, except transport .....	9.5	9.0	8.4	8.1	8.2	7.6	7.8	8.1	8.7	9.0	9.4	13.1	13.8
Transport equipment operatives .....	6.4	5.8	5.3	5.3	5.3	4.9	5.1	5.6	5.8	5.3	6.7	9.5	10.4
Nonfarm laborers .....	11.5	11.1	11.5	9.8	10.3	10.9	9.8	10.8	11.1	11.7	12.4	15.2	15.9
Service workers .....	8.0	7.8	7.5	7.5	7.3	7.3	7.4	7.3	7.0	6.7	7.0	8.2	8.4
Farm workers .....	4.3	4.2	4.2	3.4	3.7	3.8	3.2	3.4	4.0	4.4	4.1	4.7	4.9
<b>INDUSTRY</b>													
Nonagricultural private wage and salary workers <sup>3</sup> .....	6.8	6.5	6.2	5.9	5.9	5.7	5.6	5.7	5.9	5.9	6.1	7.8	8.0
Construction .....	11.7	11.1	11.0	9.9	10.4	11.0	10.4	10.2	9.9	10.1	11.4	16.3	17.0
Manufacturing .....	6.7	6.2	5.7	5.6	5.4	5.1	5.1	5.4	5.9	5.9	6.5	9.2	9.6
Durable goods .....	6.1	5.7	5.2	4.9	5.0	4.5	4.4	4.7	5.4	5.5	6.4	10.0	10.5
Nondurable goods .....	7.5	6.9	6.5	6.5	6.0	6.0	6.1	6.5	6.7	6.5	6.7	8.1	8.1
Transportation and public utilities .....	4.7	4.6	3.8	3.9	3.7	3.3	3.6	3.2	3.8	4.0	4.2	5.0	5.6
Wholesale and retail trade .....	7.9	7.5	7.2	6.8	6.7	6.7	6.5	6.5	6.4	6.4	6.4	7.5	7.6
Finance and service industries .....	5.7	5.7	5.3	5.1	5.2	4.9	4.9	4.8	4.9	4.7	4.7	5.5	5.5
Government workers .....	4.1	4.2	3.8	4.0	3.9	3.9	3.9	3.6	3.5	3.8	4.0	4.1	4.1
Agricultural wage and salary workers .....	9.9	9.8	9.6	8.1	8.7	8.5	8.0	8.6	9.8	9.8	9.9	11.1	11.8

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

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

<sup>3</sup> as a percent of potentially available labor force hours.

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

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

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

(Numbers in thousands)

Weeks of unemployment	1977		1978				1979				1980		
	I	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>DURATION</b>													
Both sexes, 16 years and over:													
Less than 5 weeks	2,803	2,757	2,749	2,779	2,858	2,786	2,766	2,860	2,922	2,930	3,058	3,505	3,196
5 to 14 weeks	2,096	2,001	1,895	1,871	1,865	1,854	1,873	1,870	1,902	1,933	2,052	2,670	2,601
15 weeks and over	1,844	1,735	1,542	1,396	1,284	1,238	1,253	1,196	1,135	1,205	1,328	1,706	2,142
15 to 26 weeks	916	860	828	740	664	709	712	683	639	683	787	998	1,238
27 weeks and over	928	876	715	655	620	529	541	513	496	522	541	708	904
Average (mean duration, in weeks)	14.0	13.7	12.7	12.2	11.6	11.2	11.4	10.8	10.5	10.5	10.8	11.2	12.4
Median duration, in weeks	7.0	6.5	6.4	5.9	5.9	5.6	5.8	5.5	5.6	5.4	5.6	6.0	7.6
<b>PERCENT DISTRIBUTION</b>													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	41.6	42.5	44.4	46.0	47.6	47.4	47.0	48.3	49.0	48.3	47.5	44.5	40.3
5 to 14 weeks	31.1	30.8	30.6	30.9	31.1	31.5	31.8	31.6	31.9	31.9	31.9	33.9	32.8
15 weeks and over	27.3	26.7	24.9	23.1	21.4	21.1	21.3	20.2	19.0	19.9	20.6	21.6	27.0
15 to 26 weeks	13.6	13.2	13.4	12.2	11.1	12.1	12.1	11.5	10.7	11.3	12.2	12.7	15.6
27 weeks and over	13.8	13.5	11.6	10.8	10.3	9.0	9.2	8.7	8.3	8.6	8.4	9.0	11.4

**A-49. Unemployment rates by sex and age, seasonally adjusted**

Sex and age	1977		1978				1979				1980		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>Total, 16 years and over</b>	6.9	6.6	6.2	6.0	6.0	5.8	5.8	5.8	5.8	5.9	6.1	7.5	7.6
16 to 19 years	17.6	16.5	16.9	16.0	16.2	16.2	15.9	16.1	16.2	16.1	16.2	18.0	18.5
18 to 19 years	19.9	18.5	19.8	18.7	19.5	19.3	18.5	18.4	17.5	17.9	18.4	20.1	21.2
20 to 24 years	15.9	15.1	14.9	14.1	13.7	13.9	13.9	14.6	15.2	14.8	14.6	16.7	16.7
25 years and over	10.9	10.2	10.3	9.5	9.4	8.9	8.7	8.8	9.2	9.4	9.8	12.2	12.1
25 to 54 years	4.8	4.6	4.1	4.1	4.0	3.9	3.9	3.9	3.9	3.9	4.2	5.3	5.5
55 years and over	5.0	4.8	4.3	4.3	4.3	4.1	4.1	4.1	4.1	4.2	4.5	5.8	6.0
55 years and over	3.9	4.0	3.3	3.2	3.1	2.9	3.0	3.1	3.1	2.8	3.0	3.5	3.5
<b>Males, 16 years and over</b>	6.1	5.7	5.5	5.1	5.1	5.0	5.0	5.0	5.1	5.2	5.6	7.4	7.7
16 to 19 years	17.4	15.9	16.3	15.1	15.4	16.2	16.0	15.5	15.9	15.7	15.5	18.4	19.5
18 to 19 years	20.2	17.5	19.5	18.4	18.9	19.9	19.1	17.9	16.9	17.6	17.6	20.7	22.2
20 to 24 years	15.1	14.5	13.9	12.9	12.6	13.2	13.8	14.0	15.1	14.0	14.0	17.1	17.4
25 years and over	10.8	9.7	10.1	8.7	8.8	8.6	8.2	8.2	8.8	9.1	10.2	13.3	13.6
25 to 54 years	4.0	3.9	3.5	3.4	3.3	3.2	3.2	3.2	3.3	3.4	3.7	5.2	5.5
55 years and over	4.1	3.9	3.5	3.4	3.4	3.3	3.3	3.3	3.5	3.6	3.9	5.5	6.0
55 years and over	3.6	3.8	3.2	3.2	3.0	2.7	2.8	3.0	3.1	2.7	2.9	3.6	3.8
<b>Females, 16 years and over</b>	8.1	7.8	7.2	7.2	7.3	6.8	6.8	6.8	6.7	6.8	6.8	7.5	7.5
16 to 19 years	17.9	17.3	17.8	16.9	17.1	16.2	15.7	16.7	16.5	16.5	17.0	17.4	17.4
18 to 19 years	19.5	19.7	20.1	18.9	20.2	18.7	17.8	18.9	18.2	18.2	19.3	19.4	20.0
20 to 24 years	16.8	15.7	16.1	15.5	14.9	14.7	13.9	15.2	15.3	15.5	15.3	16.3	15.9
25 years and over	10.9	10.9	10.4	10.5	10.1	9.3	9.3	9.0	9.6	9.7	9.3	10.9	10.3
25 to 54 years	6.0	5.8	5.0	5.1	5.2	4.9	4.9	4.9	4.7	4.8	4.9	5.6	5.6
55 years and over	6.3	6.1	5.4	5.6	5.6	5.2	5.3	5.3	5.1	5.1	5.4	6.1	6.1
55 years and over	4.5	4.3	3.5	3.2	3.3	3.3	3.4	3.2	3.1	3.1	3.1	3.3	3.1

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Reason for unemployment	1977		1978				1979				1980		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>NUMBER OF UNEMPLOYED</b>													
Both sexes, 16 years and over:													
Job losers .....	3,056	2,842	2,612	2,534	2,452	2,413	2,458	2,442	2,613	2,729	2,981	4,179	4,464
On layoff .....	858	770	713	660	693	707	774	793	856	953	1,060	1,023	1,825
Other job losers .....	2,198	2,072	1,899	1,874	1,759	1,705	1,684	1,648	1,757	1,776	1,921	2,351	2,639
Job leavers .....	862	890	865	847	848	851	864	881	849	827	793	938	866
Reentrants .....	1,869	1,880	1,834	1,775	1,847	1,795	1,751	1,766	1,770	1,744	1,795	1,935	1,860
New entrants .....	957	873	895	862	869	843	830	802	757	799	814	830	885
<b>PERCENT DISTRIBUTION</b>													
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	45.3	43.8	42.1	42.1	40.8	40.9	41.6	41.4	43.6	44.8	46.7	53.0	55.3
On layoff .....	12.7	11.9	11.5	11.0	11.5	12.0	13.1	13.5	14.3	15.6	16.6	23.2	22.6
Other job losers .....	32.6	32.0	30.6	31.1	29.2	28.9	28.5	28.0	29.3	29.1	30.1	29.8	32.7
Job leavers .....	12.8	13.7	13.9	14.1	14.1	14.4	14.6	15.3	14.2	13.6	12.4	11.9	10.7
Reentrants .....	17.7	19.0	19.5	19.5	19.7	19.4	19.7	19.6	19.6	19.6	19.6	24.5	23.0
New entrants .....	14.2	13.5	14.4	14.3	14.4	14.3	14.1	13.6	12.6	13.1	12.8	10.5	11.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>													
Job losers .....	3.1	2.9	2.6	2.5	2.4	2.4	2.4	2.4	2.5	2.6	2.9	4.0	4.2
Job leavers .....	.9	.9	.9	.8	.8	.8	.8	.9	.8	.6	.8	.9	.8
Reentrants .....	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.8
New entrants .....	1.0	.9	.9	.9	.9	.8	.8	.8	.7	.8	.8	.8	.8

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

(In thousands)

Sex and age	1977		1978				1979				1980		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>Total, 16 years and over .....</b>	<b>90,913</b>	<b>92,108</b>	<b>92,954</b>	<b>94,145</b>	<b>94,734</b>	<b>95,653</b>	<b>96,425</b>	<b>96,467</b>	<b>97,231</b>	<b>97,665</b>	<b>97,804</b>	<b>96,893</b>	<b>97,070</b>
16 to 19 years .....	7,674	7,622	7,772	8,010	8,090	8,054	8,106	7,970	7,885	7,979	7,876	7,599	7,464
16 to 17 years .....	3,116	3,110	3,159	3,294	3,326	3,297	3,334	3,246	3,208	3,295	3,184	3,037	2,949
18 to 19 years .....	4,555	4,512	4,612	4,705	4,763	4,757	4,772	4,709	4,671	4,684	4,703	4,549	4,521
20 to 24 years .....	12,927	13,009	13,177	13,471	13,584	13,752	13,900	13,888	13,903	13,877	13,805	13,525	13,534
25 years and over .....	70,307	71,191	71,997	72,674	73,057	73,844	74,416	74,624	75,447	75,803	76,129	75,783	76,074
25 to 54 years .....	56,591	57,162	58,023	58,506	58,906	59,599	60,043	60,325	61,092	61,423	61,778	61,474	61,722
55 years and over .....	13,714	13,939	13,965	14,163	14,161	14,249	14,372	14,286	14,361	14,378	14,361	14,300	14,360
<b>Males, 16 years and over .....</b>	<b>54,005</b>	<b>54,716</b>	<b>54,922</b>	<b>55,421</b>	<b>55,603</b>	<b>56,010</b>	<b>56,417</b>	<b>56,381</b>	<b>56,564</b>	<b>56,648</b>	<b>56,606</b>	<b>55,759</b>	<b>55,639</b>
16 to 19 years .....	4,127	4,171	4,224	4,287	4,320	4,274	4,288	4,245	4,201	4,216	4,236	4,035	3,885
16 to 17 years .....	1,715	1,739	1,751	1,778	1,789	1,748	1,782	1,758	1,738	1,765	1,756	1,634	1,559
18 to 19 years .....	2,418	2,439	2,472	2,504	2,544	2,530	2,504	2,477	2,461	2,456	2,487	2,394	2,340
20 to 24 years .....	7,062	7,149	7,158	7,344	7,359	7,449	7,537	7,547	7,533	7,521	7,457	7,236	7,150
25 years and over .....	42,820	43,263	43,540	43,788	43,934	44,273	44,598	44,586	44,845	44,895	44,929	44,505	44,608
25 to 54 years .....	34,269	34,632	34,895	35,059	35,192	35,455	35,745	35,826	36,011	36,109	36,111	35,757	35,875
55 years and over .....	8,539	8,635	8,641	8,743	8,732	8,815	8,859	8,772	8,821	8,778	8,823	8,759	8,727
<b>Females, 16 years and over .....</b>	<b>36,908</b>	<b>37,392</b>	<b>38,032</b>	<b>38,724</b>	<b>39,132</b>	<b>39,643</b>	<b>40,008</b>	<b>40,086</b>	<b>40,667</b>	<b>41,017</b>	<b>41,198</b>	<b>41,133</b>	<b>41,430</b>
16 to 19 years .....	3,547	3,551	3,548	3,722	3,770	3,780	3,818	3,725	3,684	3,763	3,640	3,564	3,579
16 to 17 years .....	1,401	1,411	1,408	1,516	1,537	1,549	1,552	1,489	1,470	1,530	1,428	1,402	1,390
18 to 19 years .....	2,137	2,144	2,140	2,201	2,229	2,232	2,273	2,231	2,210	2,239	2,216	2,155	2,182
20 to 24 years .....	5,865	5,940	6,019	6,127	6,225	6,303	6,363	6,340	6,370	6,357	6,347	6,289	6,383
25 years and over .....	27,487	27,909	28,458	28,885	29,123	29,571	29,818	30,038	30,602	30,907	31,200	31,279	31,466
25 to 54 years .....	22,322	22,630	23,128	23,447	23,714	24,145	24,298	24,499	25,081	25,314	25,667	25,717	25,847
55 years and over .....	5,174	5,284	5,324	5,421	5,429	5,434	5,513	5,514	5,540	5,600	5,538	5,541	5,632

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

(In thousands)

Category	1977		1978				1979				1980		
	II	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>CHARACTERISTIC</b>													
Total, 16 years and over	90,913	92,108	92,954	94,145	94,734	95,653	96,425	96,467	97,231	97,665	97,804	96,893	97,070
Married men, spouse present	38,377	38,562	38,527	38,625	38,666	38,938	39,208	39,011	39,185	38,964	38,817	38,227	37,960
Married women, spouse present	20,987	21,291	21,585	21,760	21,921	22,250	22,500	22,529	22,905	22,962	23,164	23,126	23,092
<b>OCCUPATION</b>													
White-collar workers	45,319	46,227	46,534	46,957	47,382	47,951	48,712	49,130	49,672	49,854	50,354	50,624	51,226
Professional and technical Managers and administrators, except farm	13,788	14,035	14,019	14,212	14,255	14,509	14,899	15,067	15,089	15,153	15,393	15,602	15,668
Sales workers	9,681	9,941	10,085	10,100	10,123	10,114	10,361	10,453	10,656	10,597	10,778	10,846	11,072
Clerical workers	16,094	16,484	16,558	16,740	17,044	17,267	17,388	17,514	17,764	17,780	17,933	18,179	18,286
Blue-collar workers	40,293	30,605	30,934	31,567	31,583	32,031	32,169	31,867	32,036	32,206	31,769	30,683	30,192
Craft and kindred workers	11,913	12,095	12,138	12,307	12,462	12,631	12,832	12,822	12,877	12,989	12,770	12,532	12,387
Operatives, except transport Transport equipment operatives	10,341	10,404	10,649	10,938	10,872	11,043	10,950	10,776	10,919	10,991	10,639	10,292	10,132
Nonfarm laborers	3,492	3,506	3,526	3,519	3,508	3,613	3,607	3,604	3,616	3,619	3,582	3,433	3,414
Service workers	4,547	4,600	4,620	4,803	4,740	4,744	4,779	4,664	4,625	4,607	4,779	4,427	4,259
Farm workers	12,509	12,547	12,706	12,847	12,854	12,947	12,823	12,828	12,749	12,935	13,013	12,965	12,960
	2,711	2,771	2,807	2,786	2,818	2,773	2,761	2,655	2,702	2,702	2,719	2,670	2,690
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>													
<b>Agriculture:</b>													
Wage and salary workers	1,322	1,382	1,389	1,424	1,428	1,426	1,409	1,409	1,401	1,436	1,431	1,380	1,344
Self-employed workers	1,553	1,573	1,588	1,617	1,621	1,596	1,568	1,537	1,605	1,607	1,601	1,614	1,662
Unpaid family workers	315	340	342	296	320	309	314	288	309	311	292	279	293
<b>Nonagricultural industries:</b>													
Wage and salary workers	81,118	82,204	82,917	84,041	84,561	85,459	86,220	86,215	86,596	87,129	87,406	86,543	86,415
Government	15,211	15,346	15,274	15,283	15,265	15,317	15,285	15,431	15,360	15,393	15,525	15,786	15,597
Private industries	65,907	66,859	67,643	68,759	69,295	70,142	70,935	70,784	71,236	71,736	71,881	70,756	70,818
Private households	1,394	1,389	1,372	1,400	1,365	1,313	1,279	1,201	1,248	1,233	1,142	1,183	1,189
Other industries	64,513	65,470	66,271	67,359	67,930	68,829	69,656	69,584	69,988	70,503	70,739	69,574	69,628
Self-employed workers	6,065	6,135	6,269	6,312	6,241	6,404	6,543	6,567	6,724	6,777	6,826	6,709	6,886
Unpaid family workers	503	474	476	482	466	463	459	466	473	419	384	407	421
<b>PERSONS AT WORK<sup>1</sup></b>													
Nonagricultural industries	62,450	63,339	63,994	65,813	66,068	66,833	67,637	67,381	68,782	68,812	69,008	67,750	67,989
Full-time schedules	67,654	68,344	69,155	70,473	70,938	71,596	72,306	72,133	73,042	73,113	73,027	71,412	71,365
Part time for economic reasons	3,315	3,266	3,167	3,279	3,257	3,159	3,197	3,282	3,246	3,409	3,446	4,055	4,155
Usually work full time	1,253	1,243	1,192	1,272	1,298	1,228	1,251	1,294	1,336	1,419	1,464	1,852	1,745
Usually work part time	2,062	2,023	1,975	2,007	1,958	1,931	1,946	1,988	1,910	1,989	1,982	2,203	2,410
Part time for noneconomic reasons	11,481	11,729	11,671	12,062	11,874	12,078	12,134	11,966	12,494	12,290	12,535	12,283	12,468

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

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED  
QUARTERLY AVERAGES.**

**A-53. Persons not in labor force by reason, sex, and race, seasonally adjusted**

(In thousands)

Reason, sex, and race	1977		1978				1979				1980		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
<b>TOTAL</b>													
Total not in labor force	59,126	58,815	58,868	58,432	58,458	58,384	58,255	58,824	58,568	58,842	59,022	59,103	59,381
Do not want job now	53,398	53,125	53,568	53,169	52,928	53,068	53,238	53,666	52,955	53,563	53,585	54,014	54,351
Current activity:													
Going to school	6,214	6,200	6,261	6,227	6,007	5,969	5,944	5,976	5,974	6,003	6,036	6,239	6,781
Ill, disabled	4,567	4,395	4,505	4,573	4,424	4,629	4,563	4,542	4,480	4,540	4,680	4,465	4,041
Keeping house	30,123	30,113	29,711	29,647	29,422	29,296	29,303	29,215	28,723	28,736	28,199	28,742	28,651
Retired	9,045	9,036	9,408	9,196	9,400	9,466	9,583	9,979	9,978	10,206	10,638	10,514	10,941
Other	3,449	3,381	3,683	3,526	3,675	3,708	3,845	3,954	3,799	4,078	4,031	4,053	3,931
Want a job now	5,818	5,570	5,434	5,289	5,386	5,261	5,246	5,190	5,527	5,287	5,583	5,441	5,721
Reason not looking:													
School attendance	1,587	1,514	1,415	1,312	1,455	1,351	1,348	1,378	1,564	1,493	1,443	1,452	1,601
Ill health, disability	808	746	699	754	703	722	750	708	772	751	789	739	761
Home responsibilities	1,278	1,222	1,226	1,236	1,227	1,219	1,227	1,220	1,266	1,238	1,344	1,181	1,251
Think cannot get job	1,030	977	925	836	851	772	740	807	731	741	993	917	961
Job-market factors	713	635	645	537	612	491	495	507	531	459	610	616	671
Personal factors	317	341	281	300	239	281	245	300	200	282	384	300	291
Other reasons <sup>1</sup>	1,115	1,111	1,169	1,150	1,151	1,197	1,181	1,078	1,194	1,064	1,013	1,152	1,131
<b>Males</b>													
Total not in labor force	16,642	16,414	16,587	16,586	16,742	16,675	16,588	16,956	16,948	17,211	17,286	17,329	17,551
Do not want job now	14,808	14,658	14,885	14,889	15,050	14,952	15,012	15,395	15,177	15,485	15,594	15,719	15,951
Want a job now	1,806	1,703	1,742	1,647	1,700	1,676	1,679	1,537	1,826	1,725	1,738	1,733	1,891
Reason not looking:													
School attendance	760	746	710	649	727	697	666	686	815	739	684	745	821
Ill health, disability	343	321	315	336	326	327	362	276	355	337	336	335	341
Think cannot get job	350	323	340	300	287	294	294	256	286	285	377	305	371
Other reasons <sup>1</sup>	353	314	377	362	359	358	358	319	370	364	341	348	351
<b>Females</b>													
Total not in labor force	42,483	42,401	42,281	41,846	41,716	41,709	41,667	41,868	41,620	41,632	41,735	41,775	41,831
Do not want job now	38,590	38,467	38,683	38,280	37,878	38,115	38,226	38,271	37,778	38,078	37,991	38,294	38,401
Want a job now	4,012	3,867	3,691	3,642	3,686	3,584	3,566	3,653	3,701	3,562	3,845	3,708	3,831
Reason not looking:													
School attendance	827	769	704	664	727	655	682	692	749	753	759	707	771
Ill health, disability	466	426	384	418	376	395	389	432	417	414	453	404	421
Home responsibilities	1,278	1,222	1,226	1,236	1,227	1,219	1,227	1,220	1,266	1,238	1,344	1,181	1,251
Think cannot get job	680	654	585	536	564	478	446	551	445	456	616	612	591
Other reasons <sup>1</sup>	762	797	792	789	792	839	823	759	824	700	673	804	781
<b>White</b>													
Total not in labor force	51,584	51,316	51,479	51,074	51,083	50,912	50,696	51,220	50,988	51,145	51,074	51,170	51,541
Do not want job now	47,309	46,945	47,419	47,160	46,913	46,854	46,850	47,276	46,845	46,983	46,858	47,180	47,581
Want a job now	4,271	4,298	4,154	3,977	4,256	3,911	3,991	3,919	4,274	4,014	4,284	4,078	4,231
Reason not looking:													
School attendance	1,092	1,109	1,038	961	1,202	989	985	966	1,222	1,124	1,035	1,081	1,141
Ill health, disability	571	559	500	536	518	541	541	505	529	521	566	534	511
Home responsibilities	958	979	959	962	961	904	952	944	980	968	1,120	933	971
Think cannot get job	717	720	660	569	585	537	527	564	541	540	694	597	691
Other reasons <sup>1</sup>	933	932	998	949	991	962	986	939	1,002	861	869	932	901
<b>Black and other</b>													
Total not in labor force	7,554	7,480	7,391	7,373	7,379	7,454	7,541	7,628	7,607	7,678	7,899	7,956	7,871
Do not want job now	6,076	6,241	6,071	6,075	6,137	6,149	6,244	6,372	6,305	6,451	6,556	6,626	6,401
Want a job now	1,584	1,245	1,331	1,265	1,222	1,317	1,287	1,193	1,345	1,236	1,352	1,293	1,581
Reason not looking:													
School attendance	510	401	383	334	319	357	370	390	401	367	414	347	481
Ill health, disability	223	190	216	218	170	204	230	189	219	234	243	199	221
Home responsibilities	337	236	275	260	282	309	278	261	315	262	232	237	301
Think cannot get job	316	249	287	255	274	232	221	218	200	191	313	296	291
Other reasons <sup>1</sup>	197	169	171	198	178	216	187	135	211	181	149	214	271

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



## HOUSEHOLD DATA QUARTERLY AVERAGES

### A-54. Job desire of persons not in labor force and reasons for not seeking work by age and sex

(In thousands)

Reasons for not seeking work	Total		Age in years								
			16-19		20-24		25-59		60 and over		
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	
<b>TOTAL</b>											
Total not in labor force	57,562	58,527	5,907	5,995	3,962	4,139	22,222	22,219	25,471	26,173	
Do not want a job now	52,363	53,148	4,706	4,867	3,238	3,277	19,499	19,349	24,922	25,656	
Current activity:											
Going to school	3,233	3,487	2,034	2,111	755	931	411	440	35	5	
Ill, disabled	4,579	4,148	29	36	137	109	2,158	2,093	2,254	1,911	
Keeping house	28,875	28,824	550	652	1,686	1,627	14,476	14,227	12,164	12,317	
Retired	10,112	11,091	--	2	--	--	216	252	9,895	10,838	
Other	5,564	5,598	2,093	2,066	660	610	2,238	2,337	574	585	
Want a job now	5,198	5,379	1,199	1,128	726	863	2,724	2,869	549	517	
Reason not looking:											
School attendance	826	836	513	493	155	162	152	175	5	5	
Ill health, disability	743	742	48	39	51	63	479	495	166	145	
Home responsibilities	1,446	1,429	102	81	246	286	1,068	1,030	30	31	
Think cannot get job	781	1,039	200	267	110	147	325	440	145	185	
Job-market factors	544	709	146	177	92	114	231	346	77	73	
Personal factors	236	330	57	90	18	34	95	93	68	113	
Other reasons <sup>1</sup>	1,402	1,333	336	248	164	205	700	729	203	151	
<b>Males</b>											
Total not in labor force	15,987	16,738	2,539	2,622	981	1,128	3,064	3,245	9,403	9,743	
Do not want a job now	14,504	15,182	1,987	2,109	792	859	2,595	2,709	9,131	9,505	
Current activity:											
Going to school	1,587	1,710	962	1,039	401	473	208	195	15	2	
Ill, disabled	2,409	2,151	19	19	67	57	1,185	1,129	1,140	946	
Keeping house	338	307	16	20	2	1	84	71	235	215	
Retired	7,511	8,161	--	--	--	--	170	226	7,342	7,935	
Other	2,659	2,853	990	1,031	322	328	948	1,088	399	407	
Want a job now	1,483	1,555	553	513	188	268	468	536	272	239	
Reason not looking:											
School attendance	404	402	286	243	82	88	35	71	1	--	
Ill health, disability	336	327	20	18	18	42	209	194	88	73	
Think cannot get job	312	423	110	148	43	62	79	122	79	92	
Other reasons <sup>1</sup>	431	403	137	104	45	76	145	149	104	74	
<b>Females</b>											
Total not in labor force	41,575	41,790	3,367	3,373	2,981	3,012	19,158	18,975	16,069	16,430	
Do not want a job now	37,859	37,965	2,722	2,760	2,445	2,416	16,900	16,640	15,792	16,150	
Current activity:											
Going to school	1,646	1,777	1,071	1,073	354	457	200	246	20	3	
Ill, disabled	2,170	1,997	13	18	71	51	974	963	1,114	965	
Keeping house	28,538	28,517	534	632	1,684	1,626	14,390	14,157	11,925	12,102	
Retired	2,600	2,930	--	2	--	--	46	25	2,555	2,902	
Other	2,905	2,744	1,104	1,035	336	282	1,290	1,249	174	178	
Want a job now	3,716	3,824	644	613	537	596	2,257	2,334	277	277	
Reason not looking:											
School attendance	422	434	228	250	73	75	117	103	4	5	
Ill health, disability	407	415	26	20	33	21	270	302	78	72	
Home responsibilities	1,446	1,429	102	81	246	286	1,068	1,030	30	31	
Think cannot get job	469	616	90	119	66	85	247	319	66	93	
Other reasons <sup>1</sup>	972	930	198	143	119	129	555	580	99	76	

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

NOTE: Detail in tables A-54, A-55, and A-57 may not add to not-in-labor-force totals because of differences in the weighting patterns used in aggregating these data.

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-55. Job desire of persons not in labor force and reasons for not seeking work by age, race, and sex

(In thousands)

Reasons for not seeking work	Total		Age in years						Sex			
			16-24		25-59		60 and over		Males		Females	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>WHITE</b>												
Total not in labor force	50,175	50,860	7,744	7,963	19,399	19,285	23,029	23,612	13,640	14,215	36,535	36,645
Do not want a job now	46,207	46,899	6,418	6,584	17,238	17,151	22,550	23,174	12,536	13,053	33,671	33,846
Current activity:												
Going to school	2,582	2,758	2,217	2,403	337	357	27	5	1,272	1,353	1,310	1,405
Ill, disabled	3,658	3,376	123	128	1,724	1,690	1,811	1,559	1,988	1,780	1,670	1,596
Keeping house	26,286	26,169	1,944	1,934	13,086	12,918	11,255	11,319	294	254	25,992	25,915
Retired	9,127	9,986	--	2	204	225	8,924	9,760	6,836	7,370	2,291	2,616
Other	4,554	4,610	2,134	2,117	1,887	1,961	533	531	2,146	2,296	2,408	2,314
Want a job now	3,970	3,960	1,326	1,381	2,160	2,142	479	438	1,105	1,161	2,865	2,799
Reason not looking:												
School attendance	600	584	478	457	116	122	5	4	283	306	317	278
Ill health, disability	513	501	40	68	347	317	125	115	247	239	266	262
Home responsibilities <sup>1</sup>	1,132	1,120	234	267	867	823	30	31	--	--	1,132	1,120
Think cannot get job	548	705	182	266	238	286	127	155	216	297	332	408
Other reasons	1,177	1,050	392	323	592	594	192	133	359	319	818	731
<b>BLACK AND OTHER</b>												
Total not in labor force	7,387	7,667	2,122	2,171	2,823	2,935	2,443	2,562	2,347	2,523	5,040	5,144
Do not want a job now	6,158	6,246	1,528	1,559	2,262	2,204	2,373	2,484	1,969	2,127	4,189	4,119
Current activity:												
Going to school	652	728	572	637	73	90	8	--	315	356	337	372
Ill, disabled	921	772	47	18	434	402	442	353	421	371	500	401
Keeping house	2,590	2,654	289	345	1,392	1,311	910	999	44	52	2,546	2,602
Retired	985	1,105	--	--	12	26	972	1,079	676	791	309	314
Other	1,010	987	620	559	351	375	41	53	513	557	497	430
Want a job now	1,229	1,419	594	611	563	729	68	80	533	395	850	1,024
Reason not looking:												
School attendance	225	252	189	201	36	51	--	1	121	96	104	156
Ill health, disability	231	241	57	32	132	180	41	29	90	88	141	153
Home responsibilities <sup>1</sup>	314	309	115	100	198	208	--	--	--	--	314	309
Think cannot get job	233	334	127	149	88	155	16	31	96	126	137	208
Other reasons	226	283	106	129	109	135	11	19	72	85	154	198

<sup>1</sup> Small number of men not looking for work because of "home responsibilities" are included in "other reasons."

## A-56. Persons not in labor force who desire work but think they cannot get jobs by age, race, sex, and detailed reason

(In thousands)

3rd Quarter 1980

Detailed reason for not seeking work	Total	Age in years				Race	
		16-19	20-24	25-59	60 and over	White	Black and other
<b>TOTAL</b>							
Personal factors:							
Employers think too young or old	145	30	2	17	95	134	11
Lacks education or training	106	38	22	44	2	72	35
Other personal handicap	79	22	10	32	16	58	21
Job-market factors:							
Could not find job	424	141	65	182	36	222	201
Thinks no job available	285	36	49	164	37	219	67
<b>Males</b>							
Personal factors:							
Employers think too young or old	72	21	--	2	49	64	8
Lacks education or training	27	13	9	5	--	25	2
Other personal handicap	26	8	--	16	2	20	6
Job-market factors:							
Could not find job	201	86	23	67	27	114	87
Thinks no job available	97	20	31	32	14	74	24
<b>Females</b>							
Personal factors:							
Employers think too young or old	73	10	2	15	46	70	3
Lacks education or training	79	25	13	39	2	47	33
Other personal handicap	53	13	10	17	14	38	15
Job-market factors:							
Could not find job	223	55	42	116	9	108	114
Thinks no job available	188	16	18	131	22	145	43

**HOUSEHOLD DATA  
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**A-57. Most recent work experience of persons not in labor force and reason for leaving last job for those who worked during previous 12 months by age, race, and sex**

[Numbers in thousands]

Most recent work experience and reason for leaving job	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over		1979	1980	1979	1980
	1979	1980	1979	1980	1979	1980	1979	1980				
<b>Total, not in labor force</b>	57,562	58,527	9,869	10,134	22,222	22,219	25,471	26,173	50,175	50,860	7,387	7,667
Never worked	8,415	8,680	3,902	4,134	2,070	2,178	2,441	2,368	6,720	6,901	1,695	1,780
Last worked over 5 years ago	28,985	29,830	241	295	10,970	10,905	17,775	18,630	25,939	26,590	3,047	3,239
Last worked 1 to 5 years ago	10,574	10,490	1,576	1,594	5,155	5,063	3,843	3,833	9,210	9,182	1,364	1,308
Left job during previous 12 months	9,588	9,527	4,150	4,111	4,026	4,075	1,412	1,342	8,306	8,186	1,282	1,341
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	42.3	42.2	59.0	60.8	37.8	35.5	5.6	5.4	42.8	43.6	38.4	33.4
Ill health, disability	9.5	8.9	3.0	2.2	13.9	14.3	16.2	13.4	8.9	8.4	13.3	12.0
Retirement, old age	8.3	9.0	--	--	2.2	3.6	50.5	52.8	9.1	9.7	3.2	4.9
Economic reasons	20.8	22.1	18.9	18.7	23.8	26.6	17.8	19.0	20.1	21.3	25.2	27.3
End of seasonal job	8.9	8.6	8.1	8.4	10.2	9.4	7.2	7.1	8.8	8.3	9.5	10.7
Slack work	5.6	7.0	4.6	5.7	6.9	8.7	5.1	5.9	5.4	6.5	7.3	9.9
End of temporary job	6.3	6.5	6.1	4.5	6.7	8.6	5.5	6.0	6.0	6.4	8.3	6.7
All other reasons	19.1	17.8	19.1	18.4	22.3	20.1	10.0	9.4	19.0	17.1	20.0	22.4
<b>Males, not in labor force</b>	15,987	16,738	3,520	3,750	3,064	3,245	9,403	9,743	13,640	14,215	2,347	2,523
Never worked	1,837	1,904	1,548	1,600	237	248	53	57	1,283	1,345	554	560
Last worked over 5 years ago	7,479	7,990	25	34	1,102	1,227	6,353	6,729	6,574	6,956	906	1,034
Last worked 1 to 5 years ago	3,494	3,618	304	391	1,008	1,033	2,183	2,195	3,047	3,114	448	504
Left job during previous 12 months	3,176	3,224	1,647	1,725	718	737	813	763	2,736	2,799	440	425
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	34.6	34.0	57.2	56.4	19.1	14.6	2.5	1.8	35.1	34.5	31.6	30.6
Ill health, disability	13.5	10.9	3.5	2.7	29.9	27.6	19.0	13.1	13.1	11.2	15.9	8.9
Retirement, old age	15.9	17.9	--	--	6.4	13.3	56.5	62.9	17.2	19.2	7.5	9.4
Economic reasons	18.0	19.1	20.9	20.2	15.9	20.1	14.2	16.0	16.4	17.8	27.7	28.0
End of seasonal job	8.2	7.4	10.0	9.6	6.8	4.6	6.0	5.2	7.2	6.6	15.0	12.5
Slack work	5.2	6.7	5.7	5.5	5.2	10.6	4.2	5.6	5.2	6.0	5.7	11.5
End of temporary job	4.5	5.0	5.2	5.0	3.9	4.9	3.9	5.1	4.1	5.1	7.0	4.0
All other reasons	18.0	18.1	18.3	20.7	28.7	24.4	7.9	6.2	18.1	17.4	17.3	23.1
<b>Females, not in labor force</b>	41,575	41,790	6,347	6,385	19,158	18,975	16,069	16,430	36,535	36,645	5,040	5,144
Never worked	6,578	6,775	2,355	2,536	1,835	1,929	2,388	2,311	5,437	5,556	1,141	1,220
Last worked over 5 years ago	21,505	21,839	215	261	9,868	9,678	11,422	11,900	19,365	19,634	2,141	2,205
Last worked 1 to 5 years ago	7,079	6,872	1,272	1,203	4,146	4,029	1,660	1,639	6,163	6,068	916	804
Left job during previous 12 months	6,412	6,303	2,504	2,386	3,309	3,339	599	579	5,570	5,387	842	916
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	46.0	46.4	60.2	63.9	41.9	40.1	9.8	10.2	46.7	48.4	41.9	34.6
Ill health, disability	7.5	7.9	2.6	1.8	10.4	11.3	12.4	13.6	6.8	7.0	11.9	13.4
Retirement, old age	4.6	4.4	--	--	1.2	1.5	42.4	39.5	5.2	5.0	1.0	2.8
Economic reasons	22.2	23.7	17.6	17.6	25.5	28.0	22.7	23.1	21.9	23.1	23.9	27.0
End of seasonal job	9.2	9.3	6.9	7.5	10.9	10.4	8.8	9.5	9.5	9.2	6.7	9.9
Slack work	5.8	7.1	3.9	5.8	7.2	8.2	6.2	6.2	5.5	6.8	8.2	9.1
End of temporary job	7.2	7.2	6.8	4.2	7.4	9.3	7.7	7.4	6.9	7.1	9.0	8.0
All other reasons	19.7	17.7	19.7	16.7	21.0	19.1	12.7	13.6	19.4	16.9	21.4	22.1

**A-58. Work-seeking intentions of persons not in labor force and work history of those who intend to seek work within next 12 months by age, race, and sex**

[In thousands]

Work-seeking intentions and work history	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over		1979	1980	1979	1980
	1979	1980	1979	1980	1979	1980	1979	1980				
<b>Total</b>	49,054	50,022	5,753	5,978	18,435	18,430	24,867	25,614	43,435	44,129	5,619	5,892
Do not intend to seek work	8,507	8,505	4,116	4,157	3,786	3,789	605	559	6,739	6,729	1,768	1,774
Intend to seek work in the next 12 months	1,236	1,228	1,075	1,066	136	154	23	9	833	833	403	396
Never worked	1,204	1,206	17	41	1,017	987	170	181	961	927	243	279
Last worked over 5 years ago	1,826	1,768	589	581	1,039	1,002	203	183	1,405	1,343	421	425
Last worked 1 to 5 years ago	4,240	4,302	2,438	2,469	1,593	1,649	208	186	3,540	3,627	699	675
<b>Males</b>	13,314	14,131	1,815	2,048	2,379	2,576	9,120	9,508	11,541	12,104	1,772	2,027
Do not intend to seek work	2,673	2,606	1,705	1,702	684	669	282	236	2,098	2,110	575	495
Intend to seek work in the next 12 months	503	458	478	440	24	17	1	2	325	319	178	140
Never worked	164	148	2	--	99	88	63	59	118	97	45	51
Last worked over 5 years ago	456	492	142	175	219	231	94	87	364	368	92	124
Last worked 1 to 5 years ago	1,550	1,508	1,085	1,086	342	333	124	89	1,291	1,327	259	181
<b>Females</b>	35,741	35,890	3,939	3,929	16,056	15,854	15,746	16,106	31,894	32,025	3,847	3,865
Do not intend to seek work	5,834	5,899	2,408	2,455	3,103	3,121	322	324	4,641	4,619	1,193	1,279
Intend to seek work in the next 12 months	733	778	598	626	112	137	22	7	508	514	225	256
Never worked	1,041	1,059	15	41	918	898	108	121	843	830	198	228
Last worked over 5 years ago	1,371	1,275	443	407	820	772	109	97	1,041	975	329	301
Last worked 1 to 5 years ago	2,689	2,795	1,353	1,383	1,252	1,314	84	98	2,249	2,300	440	494

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

[Numbers in thousands]

Employment status, sex, and age	Total		White		Black		Hispanic origin	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>TOTAL</b>								
Civilian noninstitutional population	161,806	164,475	141,821	143,907	17,060	17,480	8,037	8,801
Civilian labor force	104,244	105,948	91,647	93,047	10,660	10,861	5,135	5,685
Percent of population	64.4	64.4	64.6	64.7	62.5	62.1	63.9	64.6
Employed	98,231	97,986	87,028	86,888	9,366	9,231	4,716	5,062
Agriculture	3,733	3,708	3,394	3,438	274	204	239	274
Nonagricultural industries	94,498	94,278	83,634	83,450	9,092	9,027	4,477	4,788
Unemployed	6,013	7,962	4,619	6,159	1,294	1,630	419	623
Unemployment rate	5.8	7.5	5.0	6.6	12.1	15.0	8.2	11.0
Not in labor force	57,562	58,527	50,175	50,860	6,401	6,619	2,902	3,116
<b>Males, 20 years and over</b>								
Civilian noninstitutional population	68,419	69,762	60,670	61,764	6,579	6,749	3,306	3,618
Civilian labor force	54,972	55,645	48,982	49,577	5,050	5,089	2,815	3,088
Percent of population	80.3	79.8	80.7	80.3	76.8	75.4	85.1	85.4
Employed	52,899	52,228	47,363	46,898	4,631	4,418	2,660	2,813
Agriculture	2,524	2,485	2,279	2,296	199	142	174	191
Nonagricultural industries	50,375	49,743	45,084	44,602	4,432	4,276	2,487	2,623
Unemployed	2,073	3,418	1,619	2,679	420	671	155	275
Unemployment rate	3.8	6.1	3.3	5.4	8.3	13.2	5.5	8.9
Not in labor force	13,448	14,116	11,688	12,187	1,527	1,660	491	530
<b>Females, 20 years and over</b>								
Civilian noninstitutional population	77,009	78,477	67,317	68,465	8,266	8,493	3,653	3,993
Civilian labor force	38,801	40,061	33,400	34,436	4,580	4,740	1,721	1,932
Percent of population	50.4	51.0	49.6	50.3	55.4	55.8	47.1	48.4
Employed	36,479	37,321	31,650	32,340	4,057	4,170	1,576	1,753
Agriculture	713	677	662	632	39	33	36	41
Nonagricultural industries	35,766	36,643	30,988	31,708	4,019	4,137	1,539	1,711
Unemployed	2,323	2,740	1,751	2,096	522	570	145	180
Unemployment rate	6.0	6.8	5.2	6.1	11.4	12.0	8.4	9.3
Not in labor force	38,208	38,416	33,917	34,029	3,687	3,753	1,932	2,061
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population	16,377	16,236	13,834	13,678	2,215	2,238	1,078	1,190
Civilian labor force	10,471	10,241	9,264	9,034	1,029	1,032	599	665
Percent of population	63.9	63.1	67.0	66.0	46.5	46.1	55.6	55.9
Employed	8,854	8,438	8,015	7,651	678	643	480	496
Agriculture	496	546	453	511	36	29	29	42
Nonagricultural industries	8,358	7,892	7,563	7,140	641	614	451	454
Unemployed	1,617	1,803	1,249	1,383	352	390	119	169
Unemployment rate	15.4	17.6	13.5	15.3	34.2	37.7	19.9	25.4
Not in labor force	5,907	5,995	4,570	4,644	1,186	1,206	479	525

NOTE: The term "black" refers to black workers only. In the 1970 census, they constituted about 89 percent of the "black and other" population group. Data on persons of Hispanic ethnicity are

collected independently of racial data. In the 1970 census, approximately 96 percent of their population was white.

## HOUSEHOLD DATA QUARTERLY AVERAGES

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

(Numbers in thousands)

Employment status	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>TOTAL</b>								
Civilian noninstitutional population . . . . .	8,037	8,801	4,801	5,115	1,093	1,243	600	646
Civilian labor force . . . . .	5,135	5,685	3,179	3,423	588	662	387	423
Percent of population . . . . .	63.9	64.6	66.2	66.9	53.8	53.3	64.5	65.5
Employment . . . . .	4,716	5,062	2,928	3,059	520	559	357	374
Agriculture . . . . .	239	274	218	249	3	5	2	1
Nonagricultural industries . . . . .	4,477	4,788	2,711	2,810	517	554	355	372
Unemployment . . . . .	419	623	250	364	68	103	29	49
Unemployment rate . . . . .	8.2	11.0	7.9	10.6	11.5	15.5	7.6	11.6
Not in labor force . . . . .	2,902	3,116	1,622	1,693	505	582	214	223
<b>Males, 20 years and over</b>								
Civilian noninstitutional population . . . . .	3,306	3,618	2,041	2,210	401	443	243	268
Civilian labor force . . . . .	2,815	3,088	1,797	1,924	324	360	195	222
Percent of population . . . . .	85.1	85.4	88.0	87.1	80.8	81.3	80.2	82.8
Employment . . . . .	2,660	2,813	1,700	1,763	294	323	190	193
Agriculture . . . . .	174	191	159	175	1	3	2	1
Nonagricultural industries . . . . .	2,487	2,623	1,541	1,588	292	320	187	191
Unemployment . . . . .	155	275	97	162	30	36	5	30
Unemployment rate . . . . .	5.5	8.9	5.4	8.4	9.3	10.1	2.7	13.3
Not in labor force . . . . .	491	530	244	286	77	83	48	46
<b>Females, 20 years and over</b>								
Civilian noninstitutional population . . . . .	3,653	3,993	2,066	2,184	533	600	294	313
Civilian labor force . . . . .	1,721	1,932	974	1,063	194	224	165	165
Percent of population . . . . .	47.1	48.4	47.1	48.7	36.4	37.3	56.1	52.7
Employment . . . . .	1,576	1,753	885	959	177	195	152	152
Agriculture . . . . .	36	41	34	34	1	2	--	--
Nonagricultural industries . . . . .	1,539	1,711	852	925	176	194	152	152
Unemployment . . . . .	145	180	89	103	17	29	13	13
Unemployment rate . . . . .	8.4	9.3	9.1	9.7	8.8	12.9	7.6	7.7
Not in labor force . . . . .	1,932	2,061	1,092	1,122	339	376	129	148
<b>Both sexes, 16-19 years</b>								
Civilian noninstitutional population . . . . .	1,078	1,190	694	721	159	201	64	65
Civilian labor force . . . . .	599	665	408	436	70	78	27	35
Percent of population . . . . .	55.6	55.9	58.8	60.5	44.0	38.8	42.2	53.8
Employment . . . . .	480	496	343	337	50	40	15	29
Agriculture . . . . .	29	42	25	40	1	--	--	--
Nonagricultural industries . . . . .	451	454	318	297	49	40	15	29
Unemployment . . . . .	119	169	65	99	21	38	11	7
Unemployment rate . . . . .	19.9	25.4	16.0	22.7	29.3	48.2	(2)	(2)
Not in labor force . . . . .	479	525	286	285	89	123	37	29

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

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

# HOUSEHOLD DATA QUARTERLY AVERAGES

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

[In thousands]

Selected categories	Total		White		Black and other		Hispanic origin	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>CHARACTERISTICS</b>								
Total, 16 years and over .....	98,231	97,986	87,028	86,888	11,203	11,098	4,716	5,062
Males .....	57,707	56,730	51,702	50,970	6,005	5,760	2,935	3,116
Females .....	40,524	41,256	35,326	35,918	5,198	5,338	1,782	1,945
<b>OCCUPATION</b>								
White-collar workers .....	49,268	50,813	45,018	46,446	4,250	4,367	1,488	1,703
Professional and technical .....	14,691	15,242	13,332	13,844	1,359	1,399	359	400
Managers and administrators, except farm ...	10,778	11,205	10,194	10,611	583	594	286	328
Sales workers .....	6,145	6,171	5,846	5,865	299	307	169	187
Clerical workers .....	17,655	18,194	15,646	16,127	2,009	2,067	674	788
Blue-collar workers .....	33,047	31,088	28,893	27,157	4,154	3,931	2,268	2,298
Craft and kindred workers .....	13,244	12,712	12,186	11,637	1,058	1,075	668	691
Operatives, except transport .....	11,074	10,264	9,386	8,705	1,688	1,558	1,033	1,093
Transport equipment operatives .....	3,616	3,412	3,076	2,897	540	515	205	189
Nonfarm laborers .....	5,113	4,700	4,245	3,918	868	782	362	325
Service workers .....	12,870	13,067	10,359	10,477	2,510	2,590	764	833
Farm workers .....	3,046	3,019	2,758	2,809	289	210	197	227
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	1,636	1,564	1,359	1,367	277	196	213	244
Self-employed workers .....	1,711	1,775	1,658	1,710	53	65	18	26
Unpaid family workers .....	385	369	377	360	9	8	8	3
Nonagricultural industries:								
Wage and salary workers .....	87,260	86,944	76,836	76,557	10,424	10,387	4,246	4,540
Government .....	14,981	15,217	12,521	12,738	2,461	2,480	604	665
Private industries .....	72,279	71,727	64,315	63,819	7,964	7,907	3,641	3,876
Private households .....	1,287	1,234	888	830	399	404	95	87
Other industries .....	70,992	70,493	63,427	62,989	7,565	7,504	3,546	3,789
Self-employed workers .....	6,764	6,912	6,350	6,496	414	416	218	236
Unpaid family workers .....	474	422	449	398	26	25	14	13
<b>FULL- AND PART-TIME STATUS <sup>1</sup></b>								
Full-time schedules .....	81,967	80,603	72,633	71,460	9,334	9,143	4,080	4,333
Part time for economic reasons .....	3,768	4,798	3,079	3,986	688	811	242	328
Part time for noneconomic reasons .....	12,497	12,586	11,315	11,443	1,181	1,143	394	400

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

## HOUSEHOLD DATA QUARTERLY AVERAGES

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

[In thousands]

Selected categories	Total Hispanic origin <sup>1</sup>		Mexican origin		Puerto Rican origin		Cuban origin	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>CHARACTERISTICS</b>								
Total, 16 years and over.....	4,716	5,062	2,928	3,059	520	559	357	374
Males .....	2,935	3,116	1,890	1,970	326	350	201	210
Females .....	1,782	1,945	1,038	1,089	194	209	156	164
<b>OCCUPATION</b>								
White-collar workers .....	1,488	1,703	797	850	182	224	156	168
Professional and technical .....	359	400	170	181	58	53	41	39
Managers and administrators, except farm ...	286	328	149	153	26	39	31	42
Sales workers .....	169	187	83	101	17	19	21	21
Clerical workers .....	674	788	395	415	81	113	63	66
Blue-collar workers .....	2,268	2,298	1,497	1,518	230	230	159	158
Craft and kindred workers .....	668	691	452	463	50	53	45	50
Operatives, except transport .....	1,033	1,093	638	693	127	130	86	79
Transport equipment operatives .....	205	189	135	125	25	22	16	16
Nonfarm laborers .....	362	325	272	237	28	25	12	13
Service workers .....	764	833	458	482	106	103	40	47
Farm workers .....	197	227	179	209	2	4	2	--
<b>MAJOR INDUSTRY AND CLASS OF WORKER</b>								
Agriculture:								
Wage and salary workers .....	213	244	196	229	3	4	2	1
Self-employed workers .....	18	26	14	19	--	1	1	--
Unpaid family workers .....	8	3	7	2	--	--	--	--
Nonagricultural industries:								
Wage and salary workers .....	4,246	4,540	2,584	2,681	503	543	325	330
Government .....	604	665	352	400	98	96	44	25
Private industries .....	3,641	3,876	2,231	2,281	405	448	281	305
Private households .....	95	87	54	47	5	6	4	2
Other industries .....	3,546	3,789	2,177	2,234	400	442	277	303
Self-employed workers .....	218	236	116	122	14	11	30	40
Unpaid family workers .....	14	13	12	5	--	--	--	3
<b>FULL- AND PART-TIME STATUS<sup>2</sup></b>								
Full-time schedules .....	4,080	4,333	2,507	2,594	465	492	309	334
Part time for economic reasons .....	242	328	178	232	16	25	11	13
Part time for noneconomic reasons .....	394	400	243	233	40	42	37	29

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

<sup>2</sup> See footnote 1, table A-61.

# HOUSEHOLD DATA QUARTERLY AVERAGES

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

(In thousands)

Sex and age	Total		White		Black		Hispanic origin	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>Total, 16 years and over</b> .....	98,231	97,986	87,028	86,888	9,366	9,231	4,716	5,062
16 to 19 years .....	8,854	8,438	8,015	7,651	678	643	480	496
16 to 17 years .....	3,758	3,501	3,420	3,181	273	263	170	197
18 to 19 years .....	5,096	4,937	4,595	4,470	405	380	310	299
20 to 24 years .....	14,339	13,936	12,675	12,325	1,400	1,358	842	892
<b>25 years and over</b> .....	75,038	75,613	66,337	66,913	7,288	7,231	3,394	3,675
25 to 54 years .....	60,767	61,354	53,442	54,006	6,091	6,073	3,029	3,281
55 years and over .....	14,272	14,260	12,895	12,906	1,197	1,157	366	394
<b>Males, 16 years and over</b> .....	57,707	56,730	50,712	50,970	5,013	4,770	2,935	3,116
16 to 19 years .....	4,808	4,503	4,339	4,072	382	352	274	303
16 to 17 years .....	2,081	1,903	1,886	1,720	156	150	96	118
18 to 19 years .....	2,727	2,600	2,453	2,352	226	202	178	185
20 to 24 years .....	7,860	7,448	6,989	6,624	731	691	503	514
<b>25 years and over</b> .....	45,039	44,780	40,373	40,274	3,900	3,727	2,157	2,299
25 to 54 years .....	36,178	36,019	32,309	32,251	3,220	3,111	1,908	2,024
55 years and over .....	8,862	8,762	8,065	8,023	681	616	249	275
<b>Females, 16 years and over</b> .....	40,524	41,256	35,326	35,918	4,353	4,461	1,782	1,945
16 to 19 years .....	4,046	3,935	3,677	3,579	295	291	206	193
16 to 17 years .....	1,677	1,598	1,534	1,460	117	113	74	79
18 to 19 years .....	2,369	2,337	2,143	2,118	178	178	131	113
20 to 24 years .....	6,479	6,488	5,686	5,701	669	667	339	378
<b>25 years and over</b> .....	30,000	30,833	25,964	26,639	3,388	3,503	1,237	1,375
25 to 54 years .....	24,590	25,335	21,133	21,756	2,871	2,962	1,121	1,256
55 years and over .....	5,410	5,498	4,831	4,884	517	541	116	119

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

Sex and age	Total		White		Black		Hispanic origin	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>Total, 16 years and over</b> .....	5.8	7.5	5.0	6.6	12.1	15.0	8.2	11.0
16 to 19 years .....	15.4	17.6	13.5	15.3	34.2	37.7	19.9	25.4
16 to 17 years .....	16.4	19.4	14.6	17.4	34.9	37.2	26.5	28.1
18 to 19 years .....	14.7	16.3	12.6	13.8	33.6	38.1	15.7	23.5
20 to 24 years .....	9.0	11.8	7.5	10.2	20.6	23.8	9.1	12.4
<b>25 years and over</b> .....	3.8	5.4	3.4	4.8	7.4	10.2	6.0	8.2
25 to 54 years .....	4.1	5.9	3.6	5.2	7.9	10.9	6.0	8.3
55 years and over .....	2.8	3.2	2.7	2.9	4.5	5.9	5.4	7.3
<b>Males, 16 years and over</b> .....	4.8	7.2	4.2	6.3	10.5	15.5	6.9	10.7
16 to 19 years .....	14.5	17.7	12.8	15.5	30.3	36.4	18.3	24.6
16 to 17 years .....	15.2	19.4	13.6	17.7	31.8	35.2	24.9	26.4
18 to 19 years .....	14.0	16.4	12.2	13.9	29.3	37.3	14.3	23.5
20 to 24 years .....	8.0	12.5	6.9	11.0	17.5	24.5	7.5	12.8
<b>25 years and over</b> .....	3.0	5.0	2.7	4.4	6.3	10.7	5.0	8.0
25 to 54 years .....	3.1	5.4	2.7	4.7	6.8	11.5	5.1	8.0
55 years and over .....	2.7	3.3	2.6	3.1	4.2	6.2	4.6	7.7
<b>Females, 16 years and over</b> .....	7.2	8.0	6.3	7.1	14.0	14.5	10.2	11.4
16 to 19 years .....	16.6	17.5	14.2	15.0	38.6	39.2	21.8	26.5
16 to 17 years .....	17.8	19.4	15.7	17.0	38.7	39.8	28.5	30.6
18 to 19 years .....	15.6	16.2	13.2	13.6	38.5	38.9	17.5	23.4
20 to 24 years .....	10.1	10.9	8.1	9.1	23.7	23.0	11.3	11.9
<b>25 years and over</b> .....	5.1	5.9	4.6	5.4	8.5	9.6	7.6	8.6
25 to 54 years .....	5.5	6.5	5.0	6.0	9.1	10.3	7.7	8.9
55 years and over .....	3.0	3.0	2.8	2.7	4.8	5.8	7.2	5.6



## HOUSEHOLD DATA QUARTERLY AVERAGES

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

[In thousands]

Weeks of unemployment	Total		White		Black and other		Hispanic origin	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>Duration</b>								
Total, 16 years and over .....	6,013	7,961	4,619	6,159	1,394	1,803	419	623
Less than 5 weeks .....	3,051	3,342	2,411	2,643	640	699	227	284
5 to 14 weeks .....	1,967	2,749	1,470	2,113	497	636	127	228
15 weeks and over .....	995	1,870	738	1,402	257	468	65	111
15 to 26 weeks .....	511	984	396	747	115	237	40	66
27 weeks and over .....	484	886	342	655	142	231	25	45
Average (mean) duration, in weeks .....	9.9	11.8	9.4	11.3	11.5	13.3	9.2	10.4
Median duration, in weeks .....	4.9	6.7	4.8	6.5	5.7	7.6	4.6	6.1
<b>Percent distribution</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks .....	50.7	42.0	52.2	42.9	45.9	38.8	54.2	45.6
5 to 14 weeks .....	32.7	34.5	31.8	34.3	35.7	35.3	30.3	36.6
15 weeks and over .....	16.5	23.5	16.0	22.8	18.4	26.0	15.5	17.8
15 to 26 weeks .....	8.5	12.4	8.6	12.1	8.2	13.1	9.5	10.6
27 weeks and over .....	8.0	11.1	7.4	10.6	10.2	12.8	6.0	7.2

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

[Numbers in thousands]

Reason for unemployment	Total		White		Black and other		Hispanic origin	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>NUMBER OF UNEMPLOYED</b>								
Total, 16 years and over .....	6,013	7,961	4,619	6,159	1,394	1,803	419	623
Job losers .....	2,374	4,079	1,871	3,208	503	871	198	310
On layoff .....	742	1,589	610	1,321	132	268	53	80
Other job losers .....	1,632	2,490	1,261	1,887	371	603	145	230
Job leavers .....	943	966	791	817	151	150	52	85
Reentrants .....	1,817	1,915	1,349	1,433	469	482	98	123
New entrants .....	879	1,000	608	701	271	300	72	106
<b>PERCENT DISTRIBUTION</b>								
Total unemployed .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers .....	39.4	51.3	40.5	52.0	36.1	48.3	47.1	49.7
On layoff .....	12.3	20.0	13.2	21.4	9.5	14.9	12.6	12.8
Other job losers .....	27.1	31.3	27.3	30.6	26.6	33.4	34.5	36.9
Job leavers .....	15.7	12.1	17.1	13.3	10.8	8.3	12.4	13.6
Reentrants .....	30.2	24.1	29.2	23.3	33.6	26.8	23.4	19.7
New entrants .....	14.6	12.6	13.2	11.4	19.4	16.6	17.2	17.0
<b>UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE</b>								
Job losers .....	2.3	3.9	2.0	3.4	4.0	6.8	3.9	5.5
Job leavers .....	.9	.9	.9	.9	1.2	1.2	1.0	1.5
Reentrants .....	1.7	1.8	1.5	1.5	3.7	3.7	1.9	2.2
New entrants .....	.8	.9	.7	.8	2.2	2.3	1.4	1.9

# HOUSEHOLD DATA QUARTERLY AVERAGES

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

(Numbers in thousands)

Veteran status and age	Civilian noninstitutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	
<b>VETERANS</b>										
Total, 20 years and over .....	8,550	8,621	8,156	8,222	7,852	7,700	304	522	3.7	6.1
20 to 24 years .....	530	309	483	292	439	244	44	48	9.2	16.4
25 to 29 years .....	7,157	7,292	6,927	7,043	6,691	6,597	236	446	3.4	6.3
25 to 29 years .....	1,916	1,631	1,835	1,581	1,749	1,403	86	178	4.7	11.3
30 to 34 years .....	3,624	3,558	3,517	3,473	3,407	3,292	110	180	3.1	5.1
35 to 39 years .....	1,617	2,043	1,575	1,989	1,535	1,902	40	88	2.5	4.4
40 years and over .....	864	1,020	746	886	722	859	23	27	3.1	3.0
<b>NONVETERANS</b>										
Total, 25 to 39 years .....	14,694	15,591	13,993	14,844	13,479	13,887	514	957	3.7	6.5
25 to 29 years .....	6,730	7,140	6,405	6,771	6,141	6,222	264	549	4.1	8.1
30 to 34 years .....	4,203	4,047	4,005	4,449	3,867	4,199	138	250	3.4	5.5
35 to 39 years .....	3,766	3,404	3,583	3,625	3,472	3,467	112	158	3.1	4.4

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

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

(Numbers in thousands)

Employment status	Veterans						Nonveterans					
	White		Black and other		Hispanic origin		White		Black and other		Hispanic origin	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>Total, 25 to 39 years:</b>												
Civilian noninstitutional population .....	6,435	6,555	722	737	251	250	12,755	13,570	1,909	2,021	1,061	1,218
Civilian labor force .....	6,244	6,350	683	693	237	236	12,265	13,025	1,727	1,818	994	1,148
Employed .....	6,051	5,992	640	605	225	221	11,881	12,296	1,598	1,590	940	1,048
Unemployed .....	193	358	43	88	12	15	384	729	129	228	54	100
Unemployment rate .....	3.1	5.6	6.3	12.7	5.1	6.4	3.1	5.6	7.5	12.5	5.4	8.7
<b>25 to 29 years</b>												
Civilian noninstitutional population .....	1,674	1,449	242	232	87	78	5,916	6,288	814	852	445	538
Civilian labor force .....	1,604	1,368	231	213	81	73	5,669	6,009	736	761	415	502
Employed .....	1,534	1,232	215	171	74	65	5,459	5,567	682	654	389	460
Unemployed .....	70	136	16	42	7	8	210	442	54	107	26	42
Unemployment rate .....	4.4	9.9	6.9	19.7	8.6	11.0	3.7	7.4	7.3	14.1	6.3	8.4
<b>30 to 34 years</b>												
Civilian noninstitutional population .....	3,291	3,245	333	323	118	118	3,626	3,996	582	651	320	390
Civilian labor force .....	3,205	3,166	312	307	112	113	3,484	3,857	520	591	302	369
Employed .....	3,116	3,012	291	280	108	110	3,391	3,678	475	520	288	334
Unemployed .....	89	154	21	27	4	3	93	179	45	71	14	35
Unemployment rate .....	2.8	4.9	6.7	8.8	3.6	2.7	2.7	4.6	8.7	12.0	4.6	9.5
<b>35 to 39 years</b>												
Civilian noninstitutional population .....	1,470	1,861	147	182	46	54	3,233	3,286	513	518	296	290
Civilian labor force .....	1,435	1,816	140	173	44	50	3,112	3,159	471	466	277	277
Employed .....	1,401	1,748	134	154	43	46	3,031	3,051	441	416	263	254
Unemployed .....	34	68	6	19	1	4	81	108	30	50	14	23
Unemployment rate .....	2.4	3.7	4.3	11.0	(1)	(1)	2.6	3.4	6.4	10.7	5.1	8.3

<sup>1</sup> Percent not shown where base is less than 60,000.

## HOUSEHOLD DATA QUARTERLY AVERAGES

### A-69. Employment status of the population in metropolitan and nonmetropolitan areas by sex, age, and race

(Numbers in thousands)

Employment status	Metropolitan areas						Nonmetropolitan areas					
	Total		Central cities		Suburbs		Total		Farm		Nonfarm	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>Total</b>												
Civilian noninstitutional population	110,258	111,689	46,047	46,439	64,211	65,251	51,548	52,785	4,673	4,594	46,875	48,189
Civilian labor force	72,042	72,862	29,138	29,401	42,904	43,461	32,202	33,086	3,106	3,034	29,096	30,052
Percent of population	65.3	65.2	63.3	63.3	66.8	66.6	62.5	62.7	66.5	66.0	62.1	62.4
Employed	67,764	67,370	27,021	26,708	40,743	40,662	30,467	30,616	3,035	2,942	27,432	27,674
Unemployed	4,278	5,491	2,117	2,692	2,161	2,799	1,735	2,470	72	92	1,663	2,378
Unemployment rate	5.9	7.5	7.3	9.2	5.0	6.4	5.4	7.5	2.3	3.0	5.7	7.9
Not in labor force	38,216	3,882	16,909	17,037	21,307	21,790	19,346	19,700	1,567	1,560	17,779	18,140
<b>Males, 20 years and over</b>												
Civilian noninstitutional population	46,392	47,262	18,953	19,323	27,439	27,939	22,028	22,500	2,142	2,098	19,886	20,402
Civilian labor force	37,711	38,119	14,893	15,019	22,818	23,101	17,260	17,527	1,803	1,738	15,457	15,789
Percent of population	81.3	80.7	78.6	77.7	83.2	82.7	78.4	77.9	84.2	82.9	77.7	77.4
Employed	36,195	35,728	14,081	13,820	22,114	21,908	16,704	16,500	1,778	1,702	14,926	14,798
Unemployed	1,517	2,391	812	1,197	705	1,193	556	1,027	24	36	532	991
Unemployment rate	4.0	6.3	5.5	8.0	3.1	5.2	3.2	5.9	1.4	2.1	3.4	6.3
Not in labor force	8,680	9,143	4,061	4,305	4,619	4,837	4,767	4,974	339	360	4,428	4,614
<b>Females, 20 years and over</b>												
Civilian noninstitutional population	52,703	53,556	22,626	22,822	30,077	30,734	24,306	24,921	1,979	1,965	22,327	22,956
Civilian labor force	27,269	27,990	11,630	11,851	15,639	16,139	11,532	12,071	914	925	10,618	11,146
Percent of population	51.7	52.3	51.4	51.9	52.0	52.5	47.4	48.4	46.2	47.1	47.6	48.6
Employed	25,626	26,146	10,839	10,954	14,787	15,192	10,853	11,174	889	897	9,964	10,277
Unemployed	1,643	1,844	792	895	851	948	679	897	25	27	654	870
Unemployment rate	6.0	6.6	6.8	7.6	5.4	5.9	5.9	7.4	2.7	3.0	6.2	7.8
Not in labor force	25,434	25,566	10,995	10,972	14,439	14,594	12,774	12,850	1,065	1,040	11,709	11,810
<b>Both sexes, 16-19 years</b>												
Civilian noninstitutional population	11,163	10,872	4,468	4,294	6,695	6,578	5,215	5,364	553	531	4,662	4,833
Civilian labor force	7,061	6,753	2,615	2,533	4,446	4,220	3,409	3,488	390	371	3,019	3,117
Percent of population	63.3	62.1	58.5	59.0	66.4	64.2	65.4	65.0	70.3	69.9	64.8	64.5
Employed	5,943	5,496	2,101	1,933	3,842	3,564	2,910	2,941	367	343	2,543	2,598
Unemployed	1,118	1,257	514	600	604	658	499	547	23	28	476	519
Unemployment rate	15.8	18.6	19.7	23.7	13.6	15.6	14.6	15.7	5.8	7.5	15.8	16.7
Not in labor force	4,102	4,119	1,853	1,761	2,249	2,358	1,805	1,876	163	160	1,642	1,716
<b>White</b>												
Civilian noninstitutional population	94,865	95,744	35,275	35,280	59,590	60,464	46,956	48,163	4,416	4,311	42,540	43,852
Civilian labor force	62,126	62,736	22,441	22,540	39,685	40,196	29,520	30,311	2,960	2,874	26,560	27,437
Percent of population	65.5	65.5	63.6	63.9	66.6	66.5	62.9	62.9	67.0	66.7	62.4	62.6
Employed	58,959	58,659	21,145	20,887	37,814	37,772	28,069	28,229	2,903	2,799	25,166	25,430
Unemployed	3,167	4,077	1,296	1,653	1,871	2,424	1,451	2,082	57	75	1,394	2,007
Unemployment rate	5.1	6.5	5.8	7.3	4.7	6.0	4.9	6.9	1.9	2.6	5.2	7.3
Not in labor force	32,738	33,008	12,834	12,741	19,904	20,267	17,436	17,852	1,456	1,437	15,980	16,415
<b>Black and other</b>												
Civilian noninstitutional population	15,393	15,946	10,772	11,158	4,621	4,787	4,592	4,622	256	283	4,336	4,339
Civilian labor force	9,915	10,126	6,697	6,862	3,218	3,264	2,682	2,774	146	160	2,536	2,614
Percent of population	64.4	63.5	62.2	61.5	69.6	68.2	58.4	60.0	57.0	56.6	58.5	60.2
Employed	8,804	8,711	5,876	5,822	2,928	2,890	2,399	2,386	131	144	2,268	2,242
Unemployed	1,111	1,415	821	1,041	290	374	283	388	15	17	268	371
Unemployment rate	11.2	14.0	12.3	15.2	9.0	11.5	10.6	14.0	10.4	10.3	10.6	14.2
Not in labor force	5,477	5,820	4,022	4,297	1,402	1,523	1,910	1,848	110	123	1,800	1,725

# HOUSEHOLD DATA QUARTERLY AVERAGES

## A-70. Employment status of the population in poverty and nonpoverty areas by race

(Number in thousands)

Employment status	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>Total</b>												
Civilian noninstitutional population	28,594	29,185	133,212	135,290	10,981	11,130	99,277	100,559	17,613	18,055	33,935	34,731
Civilian labor force	16,394	16,630	87,850	89,317	6,108	6,096	65,934	66,766	10,286	10,534	21,916	22,551
Percent of population	57.3	57.0	65.9	66.0	55.6	54.8	66.4	66.4	58.4	58.3	64.6	64.9
Employed	15,057	14,902	83,174	83,085	5,408	5,228	62,355	62,143	9,649	9,674	20,819	20,942
Unemployed	1,337	1,729	4,676	6,233	699	868	3,579	4,623	638	860	1,097	1,609
Unemployment rate	8.2	10.4	5.3	7.0	11.4	14.2	5.4	6.9	6.2	8.2	5.0	7.1
Not in labor force	12,200	12,555	45,362	45,973	4,873	5,034	33,343	33,793	7,327	7,520	12,019	12,179
<b>White</b>												
Civilian noninstitutional population	20,148	20,552	121,673	123,354	5,537	5,578	89,328	90,166	14,611	14,975	32,345	33,189
Civilian labor force	11,777	11,970	79,870	81,077	3,133	3,151	58,993	59,585	8,644	8,819	20,876	21,492
Percent of population	58.5	58.2	65.6	65.7	56.6	56.5	66.0	66.1	59.2	58.9	64.5	64.8
Employed	11,073	11,046	75,955	75,843	2,873	2,825	56,086	55,834	8,200	8,221	19,868	20,009
Unemployed	704	924	3,915	5,234	260	326	2,907	3,751	443	598	1,008	1,484
Unemployment rate	6.0	7.7	4.9	6.5	8.3	10.4	4.9	6.3	5.1	6.8	4.8	6.9
Not in labor force	8,371	8,583	41,804	42,277	2,404	2,427	30,335	30,581	5,967	6,156	11,469	11,696
<b>Black and other</b>												
Civilian noninstitutional population	8,446	8,633	11,539	11,935	5,444	5,553	9,949	10,393	3,002	3,080	1,590	1,542
Civilian labor force	4,617	4,661	7,980	8,240	2,974	2,945	6,941	7,181	1,643	1,716	1,040	1,059
Percent of population	54.7	54.0	69.2	69.0	54.6	53.0	69.8	69.1	54.7	55.7	65.4	68.7
Employed	3,984	3,856	7,219	7,242	2,535	2,403	6,269	6,309	1,448	1,453	950	933
Unemployed	633	805	761	998	439	542	672	872	194	262	89	126
Unemployment rate	13.7	17.3	9.5	12.1	14.8	18.4	9.7	12.1	11.8	15.3	8.6	11.9
Not in labor force	3,829	3,972	3,558	3,695	2,469	2,608	3,008	3,212	1,359	1,365	550	483

## A-71. Unemployment rates for selected labor force groups in poverty and nonpoverty areas by sex, age, and race

Sex, age, and race	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980	III 1979	III 1980
<b>Total</b>												
Both sexes, 16 years and over	8.2	10.4	5.3	7.0	11.4	14.2	5.4	6.9	6.2	8.2	5.0	7.1
Males, 20 years and over	5.1	8.2	3.5	5.8	7.6	11.7	3.7	5.8	3.6	6.3	3.0	5.6
Females, 20 years and over	8.9	9.6	5.5	6.3	11.9	12.0	5.5	6.1	6.9	8.1	5.4	7.1
Both sexes, 16-19 years	21.5	24.5	14.3	16.2	27.9	35.9	14.6	16.9	17.6	18.0	13.3	14.7
<b>White</b>												
Both sexes, 16 years and over	6.0	7.7	4.9	6.5	8.3	10.4	4.9	6.3	5.1	6.8	4.8	6.9
Males, 20 years and over	3.9	6.2	3.2	5.9	6.2	8.6	3.3	5.2	3.1	5.3	3.0	5.4
Females, 20 years and over	6.3	7.3	5.1	5.3	8.6	8.9	5.1	5.6	5.5	6.7	5.2	6.9
Both sexes, 16-19 years	16.3	17.9	13.1	14.9	18.6	27.0	13.2	15.3	15.5	15.0	12.7	14.0
<b>Black and other</b>												
Both sexes, 16 years and over	13.7	17.3	9.5	12.1	14.8	18.4	9.7	12.1	11.8	15.3	8.6	11.9
Males, 20 years and over	8.6	14.5	7.0	10.9	9.5	15.8	7.6	11.1	7.0	12.3	2.7	10.0
Females, 20 years and over	14.2	14.5	8.6	9.7	14.7	14.6	8.3	9.7	13.2	14.4	10.2	10.1
Both sexes, 16-19 years	32.9	39.7	28.7	31.3	36.5	43.4	29.5	31.8	26.8	32.6	24.8	28.2

## HOUSEHOLD DATA QUARTERLY AVERAGES

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

(Numbers in thousands)

Family relationship	III 1979				III 1980			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family em- ployed full time		With no employed person in family	With at least one employed person in family	With at least one person in family em- ployed full time
<b>TOTAL</b>								
Unemployed, total .....	6,013	36.8	63.2	57.7	7,961	39.4	60.6	54.2
Unemployed, in families <sup>1</sup> .....	5,180	26.6	73.4	66.9	6,868	29.8	70.2	62.8
Husbands <sup>2</sup> .....	1,038	46.3	53.7	43.2	1,769	48.2	51.8	40.4
Wives .....	1,226	12.2	87.8	83.0	1,483	15.3	84.7	79.2
Relatives in husband-wife families .....	1,769	9.7	90.3	85.9	2,189	10.4	89.6	85.4
Women who head families .....	412	81.3	18.7	14.1	471	80.3	19.7	14.6
Relatives of female heads .....	735	32.8	67.2	57.7	956	37.8	62.2	50.5
Unemployed, not in families <sup>3</sup> .....	833	--	--	--	1,093	--	--	--
<b>White</b>								
Unemployed, total .....	4,619	34.5	65.5	60.3	6,159	37.4	62.6	56.5
Unemployed, in families <sup>1</sup> .....	3,974	23.9	76.1	70.1	5,323	27.5	72.5	65.4
Husbands <sup>2</sup> .....	864	45.7	54.3	43.4	1,478	48.2	51.8	39.9
Wives .....	1,046	10.9	89.1	84.7	1,275	14.4	85.6	80.0
Relatives in husband-wife families .....	1,418	9.1	90.9	86.7	1,785	9.7	90.3	86.4
Women who head families .....	241	78.0	22.0	17.8	286	79.0	21.0	15.7
Relatives of female heads .....	405	30.4	69.6	62.5	499	33.7	66.3	56.5
Unemployed, not in families <sup>3</sup> .....	645	--	--	--	836	--	--	--
<b>Black</b>								
Unemployed, total .....	1,294	44.6	55.4	48.3	1,630	47.2	52.8	45.4
Unemployed, in families <sup>1</sup> .....	1,123	36.2	63.8	55.7	1,398	38.4	61.6	52.9
Husbands <sup>2</sup> .....	153	49.7	50.3	41.2	256	47.3	52.7	43.0
Wives .....	156	20.5	79.5	71.2	170	20.6	79.4	74.7
Relatives in husband-wife families .....	328	12.2	87.8	82.9	358	13.7	86.3	80.7
Women who head families .....	165	86.7	13.3	8.5	175	82.9	17.1	13.1
Relatives of female heads .....	321	35.8	64.2	51.4	439	42.6	57.4	43.5
Unemployed, not in families <sup>3</sup> .....	171	--	--	--	232	--	--	--

<sup>1</sup> In primary families only.

<sup>2</sup> Includes a small number of single, separated, widowed, or divorced men who head families.

<sup>3</sup> Includes unrelated individuals and persons in secondary families.

# HOUSEHOLD DATA QUARTERLY AVERAGES

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

(Numbers in thousands)

Family relationship	III 1979				III 1980			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time		With no other employed per- son in family	With another employed per- son in family	With another person in family em- ployed full time
<b>TOTAL</b>								
Employed, total .....	98,231	37.1	62.9	54.9	97,986	38.0	62.0	53.5
Employed, in families <sup>1</sup> .....	84,189	26.6	73.4	64.0	83,095	26.9	73.1	63.1
Husbands <sup>2</sup> .....	40,173	39.6	60.4	45.9	39,121	39.3	60.7	45.6
Wives .....	22,189	8.1	91.9	88.0	22,210	9.5	90.5	85.9
Relatives in husband-wife families .....	13,574	5.9	94.1	91.0	13,468	6.3	93.7	89.9
Women who head families .....	4,570	64.2	35.8	26.5	4,648	65.8	34.2	25.4
Relatives of female heads .....	3,683	25.5	74.5	64.6	3,648	27.4	72.6	62.0
Employed, not in families <sup>3</sup> .....	14,042	--	--	--	14,891	--	--	--
<b>White</b>								
Employed, total .....	87,028	36.7	63.3	55.1	86,888	37.7	62.3	53.6
Employed, in families <sup>1</sup> .....	74,848	26.4	73.6	64.1	73,805	26.7	73.3	63.2
Husbands <sup>2</sup> .....	36,567	40.2	59.8	44.9	35,697	40.0	60.0	44.6
Wives .....	19,862	7.9	92.1	88.4	19,850	8.9	91.1	86.5
Relatives in husband-wife families .....	12,242	5.8	94.2	91.3	12,139	6.0	94.0	90.3
Women who head families .....	3,356	61.2	38.8	28.7	3,412	64.6	35.4	26.4
Relatives of female heads .....	2,821	25.4	74.6	65.4	2,707	27.8	72.2	62.3
Employed, not in families <sup>3</sup> .....	12,180	--	--	--	13,083	--	--	--
<b>Black</b>								
Employed, total .....	9,366	41.8	58.2	51.4	9,231	42.0	58.0	50.6
Employed, in families <sup>1</sup> .....	7,794	30.0	70.0	61.8	7,681	30.3	69.7	60.8
Husbands <sup>2</sup> .....	2,964	34.2	65.8	54.9	2,775	33.0	67.0	55.5
Wives .....	1,870	11.7	88.3	83.8	1,865	15.0	85.0	79.5
Relatives in husband-wife families .....	1,036	6.9	93.1	87.6	1,016	9.5	90.5	84.6
Women who head families .....	1,129	73.3	26.7	19.8	1,150	69.7	30.3	22.6
Relatives of female heads .....	795	26.2	73.8	61.8	875	26.7	73.3	60.2
Employed, not in families <sup>3</sup> .....	1,572	--	--	--	1,550	--	--	--

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

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

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

# ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

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

Year and month	Total	Goods-producing					Service-producing								
		Total	Mining	Construction	Manufacturing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
								Total	Wholesale trade	Retail trade			Total	Federal	State and local
1920.....	27,340	12,760	1,239	863	10,658	14,580	3,998	4,467	-	-	1,160	2,352	2,603	-	-
1925.....	28,766	12,489	1,089	1,461	9,939	16,277	3,826	5,576	-	-	1,218	2,857	2,800	-	-
1926.....	29,806	12,911	1,185	1,570	10,156	16,895	3,942	5,784	-	-	1,290	3,033	2,846	-	-
1927.....	29,962	12,738	1,114	1,623	10,001	17,224	3,895	5,908	-	-	1,352	3,154	2,915	-	-
1928.....	29,986	12,618	1,050	1,621	9,947	17,368	3,828	5,874	-	-	1,420	3,251	2,995	-	-
1929.....	31,324	13,301	1,087	1,512	10,702	18,023	3,916	6,123	-	-	1,494	3,425	3,065	533	2,532
1930.....	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622
1931.....	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704
1932.....	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666
1933.....	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601
1934.....	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647
1935.....	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728
1936.....	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842
1937.....	31,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923
1938.....	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054
1939.....	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090
1940.....	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206
1941.....	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,251	1,525	3,905	4,660	1,340	3,320
1942.....	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270
1943.....	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,175
1944.....	41,864	19,328	892	1,108	17,328	22,536	3,829	7,058	1,845	5,214	1,461	4,145	6,043	2,928	3,116
1945.....	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137
1946.....	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,084	1,675	4,697	5,595	2,254	3,341
1947.....	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,485	1,728	5,025	5,474	1,892	3,582
1948.....	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787
1949.....	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948
1950.....	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098
1951.....	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,037
1952.....	48,793	20,198	898	2,668	16,332	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188
1953.....	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340
1954.....	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727
1956.....	52,369	21,104	822	3,039	17,243	31,266	4,244	10,858	3,018	7,840	2,389	6,497	7,278	2,209	5,069
1957.....	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399
1958.....	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648
1959.....	53,268	20,411	732	3,004	16,775	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,696
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,220
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,779	10,320	3,337	10,567	11,839	2,737	9,102
1969.....	70,384	24,361	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,755	9,437
1970.....	70,880	23,578	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823
1971.....	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185
1972.....	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649
1973.....	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068
1974.....	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446
1975.....	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937
1976.....	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138
1977.....	82,471	24,346	813	3,851	19,682	58,125	4,713	18,516	4,708	13,808	4,467	15,303	15,127	2,727	12,399
1978.....	86,697	25,585	851	4,229	20,505	61,113	4,923	19,542	4,969	14,573	4,724	16,252	15,672	2,753	12,919
1979.....	89,886	26,504	960	4,483	21,562	63,382	5,141	20,269	5,204	15,066	4,974	17,078	15,920	2,773	13,147
1979: SEPT.....	90,629	27,079	983	4,801	21,295	63,550	5,229	20,425	5,239	15,186	5,015	17,238	15,643	2,751	12,892
1979: OCT.....	91,062	26,969	984	4,792	21,193	64,053	5,233	20,474	5,266	15,208	5,025	17,297	16,064	2,756	13,308
1979: NOV.....	91,288	26,739	986	4,698	21,055	64,549	5,243	20,756	5,282	15,474	5,039	17,284	16,227	2,760	13,467
1979: DEC.....	91,394	26,508	985	4,536	20,987	64,886	5,240	21,114	5,264	15,850	5,047	17,271	16,214	2,770	13,444
1980: JAN.....	89,630	25,953	982	4,194	20,777	63,677	5,136	20,325	5,241	15,084	5,052	17,135	16,029	2,763	13,266
1980: FEB.....	89,781	25,826	987	4,109	20,730	63,955	5,130	20,155	5,250	14,905	5,061	17,317	16,292	2,803	13,489
1980: MAR.....	90,316	25,939	996	4,150	20,793	64,377	5,143	20,226	5,269	14,957	5,085	17,478	16,445	2,869	13,576
1980: APR.....	90,761	25,850	1,006	4,311	20,533	64,911	5,147	20,373	5,265	15,108	5,104	17,636	16,651	3,103	13,548
1980: MAY.....	90,849	25,745	1,024	4,471	20,550	65,104	5,167	20,497	5,263	15,234	5,137	17,747	16,556	2,963	13,593
1980: JUN.....	91,049	25,861	1,049	4,611	20,201	65,188	5,185	20,562	5,287	15,275	5,201	17,846	16,394	2,995	13,399
1980: JUL.....	89,820	25,417	1,030	4,633	19,754	64,403	5,145	20,506	5,278	15,228	5,229	17,973	15,550	2,949	12,601
1980: AUG. P.....	90,046	25,794	1,030	4,707	20,057	64,252	5,139	20,561	5,288	15,273	5,231	17,945	15,376	2,872	12,504
1980: SEPT. P.....	90,664	25,962	1,027	4,685	20,250	64,702	5,163	20,695	5,286	15,409	5,173	17,899	15,772	2,780	12,992

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

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

p = preliminary.

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

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
-	<b>TOTAL</b> .....	50,093	90,629	89,820	90,046	90,664	-	-	-	-	-
-	<b>PRIVATE SECTOR</b> .....	74,824	74,986	74,270	74,670	74,892	61,135	61,302	60,349	60,724	60,958
-	<b>MINING</b> .....	989	983	1,030	1,030	1,027	742	738	768	766	767
10	<b>METAL MINING</b> .....	104.4	102.9	88.3	81.2	-	79.7	78.9	65.9	58.9	-
101	Iron ores .....	25.3	25.0	20.4	19.8	-	26.0	20.0	15.3	15.5	-
102	Copper ores .....	34.3	34.1	19.7	13.5	-	26.3	26.4	15.3	8.3	-
11, 12	<b>COAL MINING</b> .....	266.8	266.1	256.6	258.3	-	222.7	222.3	212.4	212.5	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	263.6	262.9	253.5	255.1	-	219.8	219.4	209.6	209.7	-
13	<b>OIL AND GAS EXTRACTION</b> .....	488.3	485.3	562.7	570.0	-	336.7	334.4	393.2	399.2	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	204.1	199.4	226.4	227.9	-	96.0	92.6	106.0	105.7	-
138	Oil and gas field services .....	284.2	285.9	336.3	342.1	-	240.7	241.8	287.2	293.5	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	129.3	128.5	122.6	120.9	-	103.2	102.5	96.6	94.9	-
142	Crushed and broken stone .....	43.0	42.6	39.7	38.8	-	36.2	35.9	33.5	32.8	-
144	Sand and gravel .....	41.3	41.2	38.0	37.2	-	-	-	-	-	-
147	Chemical and fertilizer minerals .....	25.2	25.1	25.6	25.4	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	4,863	4,801	4,633	4,707	4,685	3,944	3,883	3,673	3,737	3,719
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	1,387.5	1,256.3	1,256.4	1,283.4	-	1,095.8	1,065.4	973.5	995.2	-
152	Residential building construction .....	€78.3	€50.3	588.9	605.7	-	522.1	495.4	438.9	452.0	-
153	Operative builders .....	89.8	€9.4	71.8	71.7	-	58.6	57.5	42.1	42.5	-
154	Nonresidential building construction .....	€19.4	€16.€	595.7	606.0	-	515.1	512.5	492.5	500.7	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	1,035.3	1,021.1	949.7	958.8	-	876.3	860.4	775.5	783.5	-
161	Highway and street construction .....	341.9	€34.€	308.1	309.0	-	300.6	293.€	267.4	267.0	-
162	Heavy construction, except highway .....	€93.4	€86.€	€41.6	€49.8	-	€57.7	€56.6	€50.1	€51.5	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	2,439.9	2,423.7	2,426.6	2,465.2	-	1,971.4	1,957.5	1,924.0	1,958.3	-
171	Plumbing, heating, air conditioning .....	€75.8	€75.7	€75.7	€87.2	-	442.2	440.2	429.6	440.5	-
172	Painting, paper hanging, decorating .....	173.8	167.3	169.4	167.3	-	148.8	142.5	144.3	142.6	-
173	Electrical work .....	419.9	419.7	427.4	433.6	-	331.8	332.0	331.4	336.6	-
174	Masonry, stonework, and plastering .....	389.1	€81.€	383.5	393.8	-	340.6	334.2	330.6	339.8	-
175	Carpentering and flooring .....	135.9	134.8	123.5	130.5	-	107.0	106.0	93.8	98.4	-
176	Roofing and sheet metal work .....	178.8	178.0	177.8	179.8	-	146.7	146.7	144.4	147.0	-
-	<b>MANUFACTURING</b> .....	21,096	21,295	19,754	20,057	20,250	15,048	15,265	13,657	13,950	14,191
24, 25, 32-39	<b>DURABLE GOODS</b> .....	12,683	12,891	11,774	11,832	12,011	8,979	9,190	8,025	8,070	8,284
20-23, 28-31	<b>NONDURABLE GOODS</b> .....	8,413	€,404	7,980	8,225	8,239	6,069	6,075	5,632	5,880	5,907
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	788.2	785.0	666.8	683.2	685.5	674.8	670.4	557.5	572.4	575.6
241	Logging camps and logging contractors .....	95.3	93.3	89.8	89.0	-	80.4	78.7	74.4	73.3	-
242	Sawmills and planing mills .....	244.4	243.1	211.1	213.1	-	218.7	217.4	187.0	188.7	-
2421	Sawmills and planing mills, general .....	203.2	202.4	176.8	178.5	-	182.4	181.5	156.8	158.4	-
2426	Hardwood dimension and flooring .....	33.8	33.4	26.8	27.3	-	29.7	29.3	23.3	23.5	-
243	Millwork, plywood, and structural members .....	227.2	227.4	186.7	195.4	-	191.7	190.7	152.1	160.6	-
2431	Millwork .....	76.3	77.1	63.1	67.0	-	62.2	62.5	49.7	53.4	-
2434	Wood kitchen cabinets .....	54.2	53.5	43.4	44.1	-	46.2	45.5	35.4	36.1	-
2435	Hardwood veneer and plywood .....	28.1	28.0	24.0	25.5	-	25.0	24.9	20.8	22.2	-
2436	Softwood veneer and plywood .....	49.9	49.9	41.7	43.8	-	43.4	43.4	35.7	37.8	-
244	Wooden containers .....	46.9	46.7	41.9	41.0	-	41.2	40.9	36.1	35.4	-
245	Wood buildings and mobile homes .....	89.5	88.8	61.0	66.0	-	71.9	70.8	45.5	49.6	-
2451	Mobile homes .....	61.9	61.8	42.3	46.2	-	51.8	51.2	32.4	35.7	-
249	Miscellaneous wood products .....	84.9	85.7	76.3	78.7	-	70.9	71.9	62.4	64.8	-
25	<b>FURNITURE AND FIXTURES</b> .....	497.1	459.6	438.1	447.0	455.4	404.4	407.5	348.8	357.3	366.1
251	Household furniture .....	327.0	329.3	275.7	284.7	-	275.2	278.2	227.9	236.6	-
2511	Wood household furniture .....	147.7	148.8	122.8	127.2	-	129.0	130.4	104.7	109.0	-
2512	Upholstered household furniture .....	100.8	101.3	87.6	91.9	-	83.3	83.8	71.6	75.8	-
2514	Metal household furniture .....	29.7	30.7	24.0	24.4	-	23.6	24.7	18.8	19.2	-
2515	Mattresses and bedsprings .....	31.8	31.8	27.1	27.8	-	24.5	24.7	20.4	21.0	-
252	Office furniture .....	50.2	50.1	47.8	48.0	-	40.2	40.0	37.5	37.6	-
253	Public building and related furniture .....	26.3	26.6	25.0	25.3	-	20.0	20.1	18.5	18.8	-
254	Partitions and fixtures .....	65.3	64.9	62.9	62.5	-	49.3	49.1	46.6	46.1	-
259	Miscellaneous furniture and fixtures .....	28.3	28.7	26.7	26.5	-	19.7	20.1	18.3	18.2	-

See footnotes at end of table.



# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980E	Sept. 1980P
<b>32</b>	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	726.5	721.6	656.0	661.3	663.8	573.6	570.0	505.0	510.1	514.2
321	Flat glass	19.4	19.7	15.4	18.0	-	14.8	15.3	11.4	13.4	-
322	Glass and glassware, pressed or blown	132.3	132.4	124.5	124.8	-	113.1	113.1	105.5	105.6	-
3221	Glass containers	74.1	72.9	68.6	70.6	-	65.1	63.9	60.2	61.9	-
3229	Pressed and blown glass, nec	58.2	59.5	55.9	54.2	-	48.0	49.2	45.3	43.7	-
323	Products of purchased glass	47.1	47.3	42.7	43.1	-	34.2	34.6	29.2	29.5	-
324	Cement, hydraulic	33.9	33.5	32.4	32.1	-	27.5	26.8	26.0	25.5	-
325	Structural clay products	52.3	51.5	43.6	43.8	-	40.3	39.6	32.8	32.9	-
326	Pottery and related products	47.6	48.2	41.6	43.2	-	40.1	40.7	33.7	35.9	-
327	Concrete, gypsum, and plaster products	228.0	224.2	206.6	207.2	-	179.2	176.1	159.7	160.4	-
3271	Concrete block and brick	24.6	24.0	21.6	21.9	-	17.6	17.1	15.0	15.2	-
3272	Concrete products, nec	75.7	74.6	66.9	67.3	-	58.5	57.7	50.5	50.9	-
3273	Ready-mixed concrete	105.0	103.1	97.6	97.4	-	84.4	82.8	77.7	77.6	-
329	Misc. nonmetallic mineral products	152.7	151.7	137.1	136.8	-	113.8	113.3	96.9	96.9	-
3291	Abrasive products	30.0	29.5	28.4	27.8	-	20.8	20.4	18.6	18.0	-
3292	Asbestos products	22.8	22.3	17.5	17.9	-	17.6	17.3	13.3	13.6	-
3296	Mineral wool	34.0	34.2	31.3	31.2	-	-	-	-	-	-
<b>33</b>	<b>PRIMARY METAL INDUSTRIES</b>	1,250.6	1,250.6	1,055.5	1,060.1	1,081.2	980.7	982.9	795.8	800.4	823.3
331	Blast furnace and basic steel products	580.6	565.4	478.8	475.2	-	459.3	449.7	364.8	360.9	-
3312	Blast furnaces and steel mills	488.0	477.5	400.7	396.4	-	387.4	378.0	306.3	301.8	-
3317	Steel pipe and tubes	30.5	30.5	26.6	27.7	-	23.9	24.0	20.1	21.2	-
332	Iron and steel foundries	231.6	238.6	184.4	187.8	-	186.8	194.3	144.1	148.4	-
3321	Gray iron foundries	139.7	146.0	106.1	110.6	-	114.2	121.0	83.7	88.5	-
3322	Malleable iron foundries	19.9	19.9	12.3	12.3	-	15.6	15.7	9.3	9.3	-
3325	Steel foundries, nec	59.9	60.2	53.3	53.7	-	47.6	47.9	41.6	42.8	-
333	Primary nonferrous metals	72.8	72.4	62.5	60.2	-	56.5	56.3	47.0	44.7	-
3334	Primary aluminum	37.1	36.7	36.8	36.0	-	29.8	29.4	28.7	28.1	-
335	Nonferrous rolling and drawing	217.5	220.9	199.3	202.7	-	159.8	162.9	135.6	142.5	-
3351	Copper rolling and drawing	34.2	34.0	27.3	27.7	-	26.7	26.5	20.1	20.2	-
3353	Aluminum sheet, plate, and foil	37.4	37.6	34.1	36.6	-	28.8	29.8	25.2	27.6	-
3357	Nonferrous wire drawing and insulating	87.6	90.2	82.9	83.5	-	63.5	66.1	58.4	59.0	-
336	Nonferrous foundries	97.0	97.7	81.6	84.3	-	79.1	79.9	63.5	66.3	-
3361	Aluminum foundries	56.3	57.1	47.4	49.3	-	46.7	47.3	37.3	39.4	-
<b>34</b>	<b>FABRICATED METAL PRODUCTS</b>	1,711.7	1,731.4	1,538.4	1,568.5	1,591.5	1,287.9	1,309.1	1,122.5	1,148.1	1,173.2
341	Metal cans and shipping containers	82.3	82.0	75.8	76.7	-	69.8	69.4	63.8	65.0	-
3411	Metal cans	67.8	67.4	61.8	62.9	-	57.9	57.4	52.5	53.7	-
342	Cutlery, hand tools, and hardware	181.7	182.0	151.4	153.5	-	140.0	141.0	112.4	113.3	-
3423,5	Hand and edge tools, and hand saws and blades	64.9	63.6	54.8	56.3	-	50.7	50.2	41.5	43.2	-
3429	Hardware, nec	101.2	102.5	82.8	82.9	-	78.0	79.5	60.7	61.1	-
343	Plumbing and heating, except electric	76.3	76.9	63.2	64.2	-	56.8	57.2	44.1	45.4	-
3432	Plumbing fittings and brass goods	28.6	28.4	23.1	22.8	-	23.6	23.3	18.1	18.1	-
3433	Heating equipment, except electric	36.3	37.3	30.1	31.6	-	25.3	26.1	19.4	20.8	-
344	Fabricated structural metal products	528.6	536.8	502.2	516.8	-	371.1	380.6	343.8	355.7	-
3441	Fabricated structural metal	107.2	108.3	101.9	105.9	-	77.6	78.5	73.0	76.3	-
3442	Metal doors, sash, and trim	89.4	90.7	78.8	82.9	-	67.3	68.1	57.1	60.5	-
3443	Fabricated plate work (boiler shops)	146.2	151.4	145.6	149.6	-	92.0	99.3	85.8	92.6	-
3444	Sheet metal work	113.3	113.6	108.5	110.3	-	83.6	84.0	79.0	80.6	-
3446	Architectural metal work	31.4	31.5	31.8	32.4	-	22.7	22.8	22.2	22.7	-
345	Screw machine products, bolts, etc.	116.1	116.1	102.6	102.5	-	91.4	91.2	78.5	78.2	-
3451	Screw machine products	54.4	54.4	49.7	49.1	-	45.2	45.1	40.2	39.5	-
3452	Bolts, nuts, rivets, and washers	61.7	61.7	52.9	53.4	-	46.2	46.1	38.3	38.7	-
346	Metal forgings and stampings	292.6	302.5	236.4	245.0	-	231.9	242.6	180.7	187.9	-
3462	Iron and steel forgings	56.6	59.1	48.6	47.5	-	43.7	46.1	36.8	35.9	-
3465	Automotive stampings	103.2	111.8	70.9	76.5	-	84.0	93.1	55.1	60.8	-
3469	Metal stampings, nec	121.7	120.8	106.0	109.8	-	95.5	94.6	80.5	82.5	-
347	Metal services, nec	108.7	109.1	103.5	106.0	-	88.9	88.9	82.9	85.0	-
3471	Plating and polishing	73.5	73.6	68.9	70.4	-	60.9	60.7	55.9	57.1	-
3479	Metal coating and allied services	35.2	35.5	34.6	35.6	-	28.0	28.2	27.0	27.9	-
348	Ordnance and accessories, nec	63.3	63.0	59.6	59.8	-	43.1	42.7	39.5	39.9	-
3483	Ammunition, exc. for small arms, nec	28.6	28.4	27.5	27.6	-	19.7	19.6	18.7	18.8	-
349	Misc. fabricated metal products	262.1	262.6	243.7	244.0	-	194.9	195.5	176.8	175.7	-
3494	Valves and pipe fittings	105.8	106.2	100.8	99.6	-	73.3	73.8	68.6	65.9	-
3496	Misc. fabricated wire products	55.1	55.2	50.5	51.8	-	42.8	42.8	35.0	40.3	-
<b>35</b>	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2,489.7	2,513.8	2,440.2	2,420.9	2,427.2	1,619.3	1,652.5	1,548.7	1,522.6	1,542.5
351	Engines and turbines	149.4	149.5	129.5	128.8	-	98.3	98.6	82.2	80.2	-
3511	Turbines and turbine generator sets	40.8	40.5	38.6	39.3	-	20.8	20.6	19.1	18.3	-
3519	Internal combustion engines, nec	108.6	109.0	90.9	89.5	-	77.5	78.0	63.1	61.9	-
352	Farm and garden machinery	176.1	184.9	162.9	146.2	-	121.0	130.8	110.7	95.0	-
3523	Farm machinery and equipment	156.6	162.8	148.0	129.7	-	108.4	115.5	101.8	84.3	-
353	Construction and related machinery	397.8	401.6	384.1	384.1	-	262.2	268.1	247.8	245.2	-
3531	Construction machinery	171.7	173.3	149.0	147.6	-	114.9	118.0	97.3	94.1	-

see footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>										
3532	Mining machinery	34.9	35.0	33.2	34.2	-	22.1	22.3	20.1	20.9	-
3533	Oil field machinery	85.9	85.7	96.4	96.3	-	58.3	58.4	66.2	66.2	-
3535	Conveyers and conveying equipment	33.1	33.4	32.6	32.5	-	19.8	20.0	17.9	17.7	-
3537	Industrial trucks and tractors	39.7	39.7	37.1	37.9	-	27.7	27.6	24.2	24.4	-
354	Metalworking machinery	368.8	371.5	366.1	362.0	-	270.2	273.5	265.2	261.7	-
3541	Machine tools, metal cutting types	77.1	77.6	80.9	78.7	-	50.6	51.3	53.9	52.4	-
3542	Machine tools, metal forming types	27.1	27.2	27.2	27.3	-	17.6	17.9	17.5	17.3	-
3544	Special dies, tools, jigs, and fixtures	135.8	137.1	130.2	129.4	-	108.5	109.7	103.1	102.2	-
3545	Machine tool accessories	69.1	69.2	70.1	70.1	-	49.9	50.2	49.7	49.6	-
3546	Power driven hand tools	34.2	34.7	32.9	32.5	-	26.2	26.8	24.8	24.6	-
355	Special industry machinery	205.8	206.1	206.4	205.6	-	131.1	132.3	131.4	130.7	-
3551	Food products machinery	46.9	47.0	46.5	45.1	-	30.3	30.4	29.5	28.9	-
3552	Textile machinery	27.1	27.1	26.0	26.7	-	19.2	19.4	18.4	18.9	-
3555	Printing trades machinery	37.9	37.8	41.0	41.4	-	23.1	23.5	25.7	25.7	-
356	General industrial machinery	325.1	327.1	315.2	314.1	-	213.5	217.2	203.4	202.5	-
3561	Pumps and pumping equipment	63.2	64.1	61.4	60.7	-	37.7	39.0	35.9	35.6	-
3562	Ball and roller bearings	56.3	56.0	56.4	57.0	-	42.8	43.4	43.6	44.0	-
3563	Air and gas compressors	31.6	31.5	30.1	30.0	-	18.3	18.4	17.9	17.7	-
3564	Blowers and fans	41.6	42.8	41.3	40.9	-	26.6	27.9	25.3	24.9	-
3566	Speed changers, drives, and gears	26.6	26.8	25.4	25.1	-	18.1	18.3	16.8	16.7	-
3568	Power transmission equipment, nec	25.3	25.6	22.2	21.7	-	18.3	18.5	15.5	15.2	-
357	Office and computing machines	404.2	406.7	434.0	434.1	-	181.8	183.9	184.9	184.4	-
3573	Electronic computing equipment	327.1	328.9	356.1	357.2	-	135.9	137.0	141.6	142.3	-
358	Refrigeration and service machinery	177.9	161.0	162.5	164.7	-	123.1	126.7	108.8	111.1	-
3585	Refrigeration and heating equipment	119.8	122.4	106.5	107.5	-	83.3	86.4	71.1	72.4	-
359	Misc. machinery, except electrical	284.6	285.2	279.5	281.3	-	218.1	221.4	214.3	211.8	-
3592	Carburetors, pistons, rings, valves	41.8	43.2	36.7	36.2	-	33.0	34.1	28.2	27.8	-
3599	Machinery, except electrical, nec	242.8	242.0	242.8	245.1	-	185.1	187.3	186.1	184.0	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	2,105.7	2,152.8	2,066.5	2,082.6	2,101.3	1,370.3	1,408.6	1,289.4	1,305.2	1,330.0
361	Electric distributing equipment	116.2	125.0	114.4	115.6	-	82.8	88.6	79.0	79.9	-
3612	Transformers	51.3	56.0	50.4	49.9	-	37.0	40.0	34.6	34.0	-
3613	Switchgear and switchboard apparatus	64.9	69.0	64.0	65.7	-	45.8	48.6	44.4	45.9	-
362	Electrical industrial apparatus	244.0	250.0	231.4	229.3	-	173.6	177.7	161.2	159.6	-
3621	Motors and generators	122.2	128.9	113.8	112.8	-	90.7	96.1	84.0	83.4	-
3622	Industrial controls	72.9	71.7	69.8	69.6	-	47.7	45.9	43.5	43.2	-
363	Household appliances	178.8	182.8	156.0	157.9	-	140.7	144.4	121.5	123.7	-
3632	Household refrigerators and freezers	37.6	38.8	33.9	29.6	-	29.9	31.1	27.0	22.7	-
3633	Household laundry equipment	23.1	23.5	20.1	19.7	-	18.1	18.9	15.3	15.2	-
3634	Electric housewares and fans	55.1	55.8	48.1	50.3	-	43.9	44.3	35.0	41.1	-
364	Electric lighting and wiring equipment	219.2	227.2	200.7	201.3	-	164.0	171.0	147.6	147.7	-
3641	Electric lamps	33.4	38.2	34.8	32.7	-	29.1	33.7	30.6	28.5	-
3643	Current-carrying wiring devices	92.1	92.8	88.7	90.0	-	64.1	64.7	61.1	62.6	-
3644	Noncurrent-carrying wiring devices	25.4	25.7	21.7	22.3	-	18.5	18.8	15.3	15.5	-
3645	Residential lighting fixtures	26.8	26.8	20.9	21.6	-	20.9	20.7	15.5	16.2	-
365	Radio and TV receiving equipment	112.9	117.7	103.4	105.5	-	84.2	89.2	73.4	75.4	-
3651	Radio and TV receiving sets	86.2	87.3	80.6	81.4	-	62.8	63.8	55.4	56.1	-
366	Communication equipment	528.0	534.6	550.7	551.2	-	265.0	270.7	269.1	271.2	-
3661	Telephone and telegraph apparatus	171.1	172.1	170.2	171.7	-	119.9	120.8	114.7	116.5	-
3662	Radio and TV communication equipment	356.9	362.5	380.5	379.5	-	145.1	149.9	154.4	154.7	-
367	Electronic components and accessories	533.4	536.5	555.4	556.4	-	333.9	334.8	330.4	330.5	-
3671-3	Electronic tubes	43.5	44.1	45.9	45.8	-	27.6	27.7	28.8	28.5	-
3674	Semiconductors and related devices	202.5	205.2	225.0	226.0	-	94.0	94.7	98.6	98.3	-
3679	Electronic components, nec	210.2	210.2	212.5	212.3	-	149.7	149.7	146.7	147.0	-
369	Misc. electrical equipment and supplies	173.2	179.0	154.5	165.4	-	126.1	132.2	107.2	117.2	-
3691	Storage batteries	32.0	33.0	27.6	31.0	-	25.5	26.5	20.6	24.0	-
3694	Engine electrical equipment	84.2	87.0	69.4	75.3	-	63.6	66.5	50.3	55.5	-
37	<b>TRANSPORTATION EQUIPMENT</b>	1,965.5	2,067.4	1,810.2	1,790.4	1,880.8	1,299.1	1,418.4	1,145.3	1,125.6	1,218.0
371	Motor vehicles and equipment	880.9	985.9	707.6	691.0	-	648.8	757.0	502.7	488.1	-
3711	Motor vehicles and car bodies	379.0	466.7	340.0	307.9	-	253.2	342.5	231.2	201.2	-
3713	Truck and bus bodies	40.3	45.7	35.8	34.9	-	30.7	36.2	27.5	26.5	-
3714	Motor vehicle parts and accessories	421.7	434.0	302.4	317.8	-	333.8	347.1	222.7	238.3	-
3715,6	Truck trailers and motor homes	39.9	39.5	29.4	30.4	-	31.1	30.8	21.3	22.1	-
372	Aircraft and parts	613.3	624.4	651.9	650.6	-	329.8	335.8	350.4	347.1	-
3721	Aircraft	337.5	340.5	351.5	355.4	-	167.0	170.3	171.1	174.6	-
3724	Aircraft engines and engine parts	150.0	155.2	161.2	154.6	-	83.6	84.2	91.9	84.6	-
3728	Aircraft equipment, nec	125.8	128.7	139.2	140.6	-	79.2	81.3	87.4	87.9	-
373	Ship and boat building and repairing	223.2	226.7	209.0	204.6	-	178.3	180.8	164.7	161.5	-
3731	Ship building and repairing	174.5	177.0	169.2	164.5	-	138.9	139.9	132.8	129.2	-
3732	Boat building and repairing	48.7	49.7	39.8	40.1	-	39.4	40.9	31.9	32.3	-
374	Railroad equipment	73.7	74.7	66.2	65.4	-	56.6	57.7	49.0	48.7	-
376	Guided missiles, space vehicles, parts	103.2	103.5	113.3	114.4	-	33.2	33.7	35.0	35.2	-
3761	Guided missiles and space vehicles	82.0	82.1	90.3	91.2	-	24.3	24.3	26.4	26.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979S	July 1980	Aug. 1980P	Sept. 1980F
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
379	Miscellaneous transportation equipment .....	50.8	51.5	43.1	45.5	-	36.1	37.2	28.3	30.0	-
3792	Travel trailers and campers .....	28.9	29.4	21.4	24.2	-	21.2	22.2	15.7	17.8	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	693.7	691.6	698.3	698.5	700.4	420.3	419.0	412.3	413.9	422.0
381	Engineering and scientific instruments .....	74.4	74.2	78.6	78.6	-	36.9	36.9	37.8	37.8	-
382	Measuring and controlling devices .....	237.0	237.6	236.1	234.9	-	150.7	151.8	144.7	144.6	-
3822	Environmental controls .....	49.4	49.2	42.4	43.7	-	34.4	34.6	28.0	29.7	-
3823	Process control instruments .....	49.6	50.3	53.9	52.0	-	25.1	25.9	28.6	27.0	-
3825	Instruments to measure electricity .....	97.6	97.2	99.9	99.4	-	62.0	61.6	58.8	59.8	-
383	Optical instruments and lenses .....	32.6	33.1	34.8	34.3	-	18.2	18.5	19.3	19.4	-
384	Medical instruments and supplies .....	140.1	139.8	145.9	146.4	-	90.8	90.3	94.3	94.4	-
3841	Surgical and medical instruments .....	60.2	60.2	64.1	65.1	-	38.5	39.3	41.6	42.3	-
3842	Surgical appliances and supplies .....	62.8	63.0	65.2	64.7	-	41.2	41.4	42.3	41.8	-
385	Ophthalmic goods .....	45.9	46.3	45.3	46.6	-	35.6	33.5	32.1	33.2	-
386	Photographic equipment and supplies .....	135.5	132.1	136.1	136.3	-	68.3	65.9	68.1	68.6	-
387	Watches, clocks, and watchcases .....	28.2	28.5	21.5	21.4	-	21.8	22.1	16.0	15.9	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	454.5	457.1	404.0	419.8	423.6	348.8	352.0	295.8	314.4	317.5
391	Jewelry, silverware, and plated ware .....	60.8	61.3	51.8	57.0	-	44.2	44.7	36.3	40.6	-
3911	Jewelry, precious metal .....	39.6	40.0	33.8	36.7	-	28.6	29.0	23.7	25.8	-
393	Musical instruments .....	23.5	23.5	19.8	19.9	-	19.2	19.4	15.5	15.7	-
394	Toys and sporting goods .....	128.6	131.1	113.2	116.6	-	100.0	102.6	84.9	88.7	-
3942, 4	Dolls, games, toys, and children's vehicles .....	65.7	67.8	56.8	60.2	-	50.4	52.6	42.1	45.4	-
3949	Sporting and athletic goods, nec .....	62.9	63.3	56.4	56.4	-	49.6	50.0	42.8	43.3	-
395	Pens, pencils, office and art supplies .....	39.0	39.4	39.2	39.1	-	28.1	28.4	27.8	27.5	-
396	Costume jewelry and notions .....	58.9	58.5	47.1	51.6	-	47.6	47.1	36.7	40.9	-
3961	Costume jewelry .....	32.7	32.2	22.9	26.3	-	26.7	26.1	17.3	20.3	-
399	Miscellaneous manufactures .....	143.7	143.3	132.9	135.6	-	109.7	109.8	98.6	101.0	-
3993	Signs and advertising displays .....	48.5	48.5	45.5	45.8	-	35.5	35.7	32.7	33.0	-
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	1,828.8	1,834.5	1,709.5	1,798.9	1,782.4	1,280.7	1,289.6	1,165.3	1,257.4	1,247.7
201	Meat products .....	365.2	363.7	364.9	366.1	-	305.1	303.7	304.8	306.0	-
2011	Meat packing plants .....	163.2	161.9	162.1	162.9	-	133.0	132.0	132.8	133.5	-
2013	Sausages and other prepared meats .....	69.4	69.4	69.7	69.8	-	51.1	51.0	51.4	51.7	-
2016	Poultry dressing plants .....	117.4	116.9	118.4	118.4	-	107.8	107.4	108.1	107.8	-
202	Dairy products .....	185.0	181.3	181.6	181.6	-	100.3	97.8	100.1	99.9	-
2022	Cheese, natural and processed .....	34.5	33.8	34.1	34.1	-	26.9	26.3	26.4	26.3	-
2026	Fluid milk .....	111.2	110.0	109.0	108.9	-	48.6	48.0	48.6	48.7	-
203	Preserved fruits and vegetables .....	335.1	347.5	242.2	315.3	-	285.9	297.7	198.3	271.0	-
2032	Canned specialties .....	25.6	26.8	22.8	24.5	-	18.1	19.3	16.4	18.2	-
2033	Canned fruits and vegetables .....	175.2	165.4	108.7	173.6	-	155.5	162.4	90.8	155.0	-
2037	Frozen fruits and vegetables .....	52.3	54.2	39.3	43.8	-	45.2	47.5	35.2	38.2	-
204	Grain mill products .....	144.1	143.4	140.7	142.2	-	100.5	99.5	95.5	97.1	-
2041	Flour and other grain mill products .....	25.2	24.9	25.0	25.3	-	15.8	15.4	14.8	15.1	-
2048	Prepared feeds, nec .....	58.8	58.7	57.4	58.1	-	39.5	39.2	37.2	37.7	-
205	Bakery products .....	233.4	232.7	232.4	232.6	-	136.8	136.7	135.3	136.3	-
2051	Bread, cake, and related products .....	189.4	188.5	188.9	187.8	-	102.6	102.1	101.5	101.2	-
2052	Cookies and crackers .....	44.0	44.2	43.5	44.8	-	34.2	34.6	32.8	35.1	-
206	Sugar and confectionery products .....	106.6	109.6	92.5	100.8	-	80.1	83.0	67.9	75.5	-
2061-3	Cane and beet sugar .....	26.0	26.6	22.7	23.3	-	18.0	18.5	15.5	16.1	-
2065	Confectionery products .....	59.3	61.5	48.8	55.6	-	46.8	49.1	37.7	43.9	-
207	Fats and oils .....	42.8	42.6	42.6	42.5	-	30.8	30.6	30.8	30.9	-
208	Beverages .....	244.0	242.5	240.9	242.6	-	112.8	112.4	108.0	108.8	-
2082	Malt beverages .....	53.3	52.6	54.1	54.1	-	36.6	35.8	35.7	35.5	-
2086	Bottled and canned soft drinks .....	145.7	142.8	147.8	148.4	-	50.8	49.5	50.7	50.6	-
209	Misc. foods and kindred products .....	172.6	171.2	171.7	175.2	-	128.4	128.0	128.6	131.9	-
21	<b>TOBACCO MANUFACTURES</b> .....	73.8	77.5	63.9	71.0	74.1	58.9	62.7	49.0	56.0	58.3
211	Cigarettes .....	45.6	45.2	45.4	45.1	-	35.4	35.0	34.7	34.3	-
22	<b>TEXTILE MILL PRODUCTS</b> .....	886.8	885.0	820.6	851.6	854.5	772.4	771.8	709.4	739.6	743.6
221	Weaving mills, cotton .....	151.0	150.5	146.4	149.4	-	135.7	135.6	130.8	133.8	-
222	Weaving mills, synthetics .....	121.9	120.7	112.6	116.2	-	109.3	108.5	100.4	104.1	-
223	Weaving and finishing mills, wool .....	19.8	19.7	16.3	17.8	-	16.5	16.3	12.9	14.3	-
224	Narrow fabric mills .....	25.2	25.4	21.0	23.8	-	22.0	22.2	18.0	20.8	-
225	Knitting mills .....	231.7	230.0	223.6	229.3	-	200.5	199.2	193.7	199.2	-
2251	Women's hosiery, except socks .....	31.5	31.5	30.4	30.7	-	28.2	28.2	27.5	27.7	-
2252	Hosiery, nec .....	33.5	32.4	32.0	33.2	-	30.6	29.4	29.1	30.3	-
2253	Knit outerwear mills .....	74.8	74.7	74.3	77.6	-	64.4	64.3	53.5	66.7	-
2254	Knit underwear mills .....	32.2	32.1	31.7	32.1	-	27.7	27.8	27.3	27.6	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>TEXTILE MILL PRODUCTS—Continued</b>										
2257	Circular knit fabric mills	33.4	33.1	30.2	30.7	-	27.6	27.6	25.4	26.0	-
226	Textile finishing, except wool	76.3	76.9	69.1	71.5	-	64.2	64.8	57.3	59.8	-
2261	Finishing plants, cotton	30.4	30.4	27.7	27.5	-	25.3	25.3	22.8	22.7	-
2262	Finishing plants, synthetics	29.6	30.0	26.8	29.2	-	25.0	25.3	22.1	24.5	-
227	Floor covering mills	60.0	60.1	50.6	52.4	-	48.8	49.1	41.2	42.7	-
228	Yarn and thread mills	132.8	133.1	121.8	128.9	-	120.9	121.0	109.4	116.2	-
2281	Yarn mills, except wool	87.3	87.5	82.6	87.2	-	80.9	81.1	75.6	80.2	-
2282	Throwing and winding mills	25.8	26.0	22.3	23.2	-	22.9	23.0	19.5	20.1	-
229	Miscellaneous textile goods	68.1	68.6	59.2	62.3	-	54.5	55.1	45.7	48.7	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	<b>1,308.1</b>	<b>1,308.8</b>	<b>1,236.9</b>	<b>1,302.8</b>	<b>1,315.1</b>	<b>1,118.3</b>	<b>1,121.6</b>	<b>1,051.2</b>	<b>1,114.5</b>	<b>1,124.1</b>
231	Men's and boys' suits and coats	81.1	78.7	76.8	79.1	-	69.8	68.4	66.4	69.3	-
232	Men's and boys' furnishings	369.7	367.1	358.5	377.8	-	318.0	316.0	305.5	323.5	-
2321	Men's and boys' shirts and nightwear	105.0	105.3	98.5	104.2	-	91.8	92.0	85.2	90.2	-
2327	Men's and boys' separate trousers	79.1	78.1	75.9	79.5	-	68.7	68.1	66.0	69.5	-
2328	Men's and boys' work clothing	103.0	101.0	103.1	109.9	-	86.5	84.7	84.9	91.5	-
233	Women's and misses' outerwear	434.2	434.5	415.6	436.4	-	374.6	375.9	357.8	376.4	-
2331	Women's and misses' blouses and waists	62.7	62.4	59.3	61.1	-	54.6	54.0	51.3	52.8	-
2335	Women's and misses' dresses	158.5	158.6	145.6	155.3	-	141.4	141.2	128.4	137.8	-
2337	Women's and misses' suits and coats	66.7	65.4	63.7	68.4	-	57.7	56.7	56.1	59.9	-
2339	Women's and misses' outerwear, nec.	146.3	148.5	147.0	151.6	-	120.9	124.0	122.0	125.9	-
234	Women's and children's undergarments	93.4	93.1	86.4	88.5	-	79.2	79.0	73.0	74.9	-
2341	Women's and children's underwear	74.5	74.5	69.5	71.9	-	64.1	64.2	59.9	62.2	-
2342	Brassieres and allied garments	18.9	18.6	16.9	16.6	-	15.1	14.6	13.1	12.7	-
236	Children's outerwear	64.9	64.2	60.8	60.6	-	55.9	55.5	51.9	51.6	-
2361	Children's dresses and blouses	25.7	26.0	23.6	24.0	-	23.0	23.4	21.1	21.4	-
238	Misc. apparel and accessories	58.7	59.2	53.9	57.3	-	50.4	51.0	45.6	48.7	-
239	Misc. fabricated textile products	166.0	161.1	164.7	183.2	-	153.3	158.2	133.4	153.0	-
2391	Curtains and draperies	29.4	29.9	25.9	27.9	-	25.5	25.9	21.6	23.5	-
2392	House furnishings, nec.	53.0	54.2	49.1	51.1	-	43.9	44.7	40.5	42.4	-
2396	Automotive and apparel trimmings	32.1	35.4	23.0	35.9	-	26.0	29.3	17.5	31.7	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	<b>715.6</b>	<b>710.5</b>	<b>682.3</b>	<b>689.2</b>	<b>688.9</b>	<b>544.1</b>	<b>540.3</b>	<b>511.1</b>	<b>517.8</b>	<b>517.0</b>
261, 266	Paper and pulp mills	211.4	208.3	205.5	205.6	-	159.1	156.9	152.7	153.1	-
262	Paper mills, except building paper	181.7	178.9	177.8	178.1	-	135.3	133.2	130.9	131.2	-
263	Paperboard mills	66.2	65.1	63.7	64.9	-	52.5	51.6	45.8	50.8	-
264	Misc. converted paper products	223.7	221.8	211.7	214.2	-	167.0	165.3	155.6	158.1	-
2641	Paper coating and gazing	59.7	58.9	56.4	57.0	-	39.3	38.5	36.2	36.6	-
2642	Envelopes	24.5	24.7	24.1	24.4	-	19.5	19.6	18.8	19.1	-
2643	Bags, except textile bags	50.9	50.5	46.6	48.1	-	39.5	39.4	35.6	37.1	-
265	Paperboard containers and boxes	214.3	215.3	201.4	204.5	-	165.5	166.5	153.0	155.8	-
2651	Folding paperboard boxes	45.1	45.4	43.3	43.8	-	35.9	36.2	33.9	34.3	-
2653	Corrugated and solid fiber boxes	110.6	110.9	102.7	103.9	-	82.1	82.3	74.6	75.9	-
2654	Sanitary food containers	26.7	26.3	25.9	26.1	-	22.0	21.8	21.2	21.3	-
27	<b>PRINTING AND PUBLISHING</b>	<b>1,242.5</b>	<b>1,243.0</b>	<b>1,264.5</b>	<b>1,264.7</b>	<b>1,265.2</b>	<b>701.5</b>	<b>704.1</b>	<b>704.2</b>	<b>707.9</b>	<b>710.0</b>
271	Newspapers	424.0	424.3	431.4	429.1	-	168.9	169.1	166.4	166.3	-
272	Periodicals	81.0	80.4	83.4	83.6	-	13.8	13.4	15.5	15.5	-
273	Books	102.5	101.2	104.0	104.2	-	53.0	52.7	53.4	54.0	-
2731	Book publishing	70.5	69.2	72.5	71.9	-	26.0	25.8	27.4	27.2	-
2732	Book printing	32.0	32.0	31.5	32.3	-	27.0	26.9	26.0	26.8	-
274	Miscellaneous publishing	46.1	44.9	47.6	47.5	-	27.6	26.8	25.3	25.2	-
275	Commercial printing	408.4	412.1	419.3	421.4	-	303.5	307.9	309.9	313.2	-
2751	Commercial printing, letterpress	165.8	167.8	167.3	167.6	-	122.6	125.3	123.7	124.9	-
2752	Commercial printing, lithographic	219.9	222.1	228.8	230.3	-	162.0	164.1	167.3	169.2	-
276	Manifold business forms	47.0	47.3	46.5	46.4	-	33.1	33.4	32.9	33.0	-
278	Blankbooks and bookbinding	65.6	64.8	63.6	63.9	-	54.5	53.6	52.3	52.4	-
279	Printing trade services	43.1	43.6	44.6	44.8	-	32.0	32.4	33.0	33.3	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	<b>1,119.0</b>	<b>1,112.7</b>	<b>1,112.0</b>	<b>1,108.6</b>	<b>1,107.1</b>	<b>635.5</b>	<b>633.6</b>	<b>619.7</b>	<b>619.0</b>	<b>619.0</b>
281	Industrial inorganic chemicals	163.9	163.4	166.5	166.8	-	87.9	87.6	88.8	88.7	-
2819	Industrial inorganic chemicals, nec.	106.2	106.1	109.2	109.4	-	56.6	56.6	59.5	59.7	-
282	Plastics materials and synthetics	212.9	211.0	199.6	198.3	-	143.8	141.8	125.8	129.4	-
2821	Plastics materials and resins	87.3	86.1	83.8	83.5	-	53.4	51.9	49.0	49.1	-
2824	Organic fibers, noncellulosic	96.7	96.2	89.6	88.8	-	69.6	69.1	62.2	61.7	-
283	Drugs	195.0	193.8	201.5	200.3	-	96.4	96.5	98.6	97.6	-
2834	Pharmaceutical preparations	155.2	154.3	160.3	159.5	-	74.1	74.1	75.9	75.3	-
284	Soap, cleaners, and toilet goods	140.0	140.7	137.9	138.2	-	84.3	85.5	83.6	85.2	-
2841	Soap and other detergents	41.1	41.3	40.5	40.8	-	26.3	26.6	25.5	26.3	-
2844	Toilet preparations	58.8	59.4	57.5	57.2	-	36.3	37.3	36.5	37.0	-
2842, 3	Polishing, sanitation, and finishing preparations	40.1	40.0	39.9	40.2	-	21.7	21.6	21.6	21.9	-
285	Paints and allied products	70.7	69.2	66.5	67.3	-	37.1	36.0	33.4	34.0	-
286	Industrial organic chemicals	173.3	172.4	174.8	173.0	-	89.8	89.8	88.2	87.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
2865	Cyclic crudes and intermediates . . . . .	37.8	37.6	36.8	36.5	-	23.7	23.6	22.5	22.3	
2861,9	Gum, wood, and industrial organic chemicals, nec. . . . .	135.5	134.8	138.0	136.5	-	66.1	66.2	65.7	65.0	
287	Agricultural chemicals . . . . .	69.2	69.4	70.8	70.1	-	43.7	44.0	44.2	43.2	
289	Miscellaneous chemical products . . . . .	98.0	92.8	94.4	94.6	-	52.9	52.4	53.1	53.6	
29	<b>PETROLEUM AND COAL PRODUCTS</b> . . . . .	214.1	213.7	212.0	212.4	209.4	140.5	139.5	136.7	137.6	
291	Petroleum refining . . . . .	167.4	167.6	168.6	168.2	-	105.7	105.2	105.7	105.8	
295	Paving and roofing materials . . . . .	34.3	33.9	30.7	31.9	-	27.0	26.7	23.0	24.2	
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> . . . . .	774.1	770.2	659.3	680.3	696.2	603.7	601.5	497.7	521.2	
301	Tires and inner tubes . . . . .	119.4	117.7	95.7	97.3	-	85.3	84.0	65.2	68.7	
302	Rubber and plastics footwear . . . . .	22.3	22.3	20.6	21.7	-	19.5	19.6	18.4	19.3	
303,4	Reclaimed rubber, and rubber and plastics hose and belting . . . . .	24.6	24.6	18.6	20.6	-	18.4	18.1	12.4	14.2	
306	Fabricated rubber products, nec. . . . .	118.9	116.9	98.5	102.4	-	93.5	91.6	74.9	78.7	
307	Miscellaneous plastics products . . . . .	488.9	488.7	425.9	438.3	-	387.0	388.2	326.8	340.3	
31	<b>LEATHER AND LEATHER PRODUCTS</b> . . . . .	250.4	247.9	218.9	245.0	246.4	212.8	210.7	183.2	208.6	
311	Leather tanning and finishing . . . . .	15.8	19.0	17.6	18.8	-	16.6	15.8	14.4	15.7	
314	Footwear, except rubber . . . . .	152.1	150.4	136.9	155.2	-	130.3	129.0	116.4	133.9	
3143	Men's footwear, except athletic . . . . .	57.7	56.9	50.0	58.7	-	49.8	49.2	42.4	50.6	
3144	Women's footwear, except athletic . . . . .	62.4	61.4	55.4	60.2	-	53.2	52.5	47.2	52.0	
316	Luggage . . . . .	18.1	17.9	14.4	14.3	-	14.1	13.8	10.7	10.6	
317	Handbags and personal leather goods . . . . .	34.3	34.4	28.8	31.3	-	29.6	29.7	24.4	26.9	
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> . . . . .	5,197	5,229	5,145	5,139	5,163	4,355	4,383	4,290	4,286	
40	<b>RAILROAD TRANSPORTATION</b> . . . . .	574.0	563.1	535.3	533.1	-	-	-	-	-	
4011	Class I railroads <sup>2</sup> . . . . .	518.0	508.3	483.3	481.3	-	-	-	-	-	
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> . . . . .	221.4	215.9	232.7	230.4	-	202.3	254.4	211.8	209.8	
411	Local and suburban transportation . . . . .	76.5	78.2	80.6	81.1	-	70.9	72.3	73.2	73.5	
412	Taxis . . . . .	58.4	60.2	56.9	55.6	-	-	-	-	-	
413	Intercity highway transportation . . . . .	40.3	39.7	43.3	44.2	-	37.4	36.7	40.1	41.2	
415	School buses . . . . .	34.6	33.5	38.1	35.9	-	-	-	-	-	
42	<b>TRUCKING AND WAREHOUSING</b> . . . . .	1,361.4	1,366.2	1,270.6	1,272.6	-	1,203.5	1,207.5	1,113.2	1,114.3	
421,3	Trucking and trucking terminals . . . . .	1,271.6	1,275.5	1,183.7	1,185.3	-	1,126.5	1,129.8	1,039.9	1,040.8	
422	Public warehousing . . . . .	85.8	90.7	86.9	87.3	-	77.0	78.1	73.3	73.5	
44	<b>WATER TRANSPORTATION</b> . . . . .	228.1	223.9	222.1	218.4	-	-	-	-	-	
45	<b>TRANSPORTATION BY AIR</b> . . . . .	449.8	448.8	455.0	457.2	-	-	-	-	-	
451,2	Air transportation . . . . .	401.9	400.6	405.5	408.0	-	-	-	-	-	
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> . . . . .	20.2	19.6	20.8	20.7	-	14.5	13.9	15.1	15.0	
47	<b>TRANSPORTATION SERVICES</b> . . . . .	191.8	193.7	195.1	192.4	-	-	-	-	-	
48	<b>COMMUNICATION</b> . . . . .	1,326.4	1,323.1	1,365.8	1,365.7	-	1,000.4	994.8	1,017.7	1,019.4	
481	Telephone communication . . . . .	1,065.3	1,060.7	1,087.1	1,086.8	-	785.1	777.8	789.5	790.8	
483	Radio and television broadcasting . . . . .	190.9	192.1	203.7	203.5	-	153.4	154.6	163.1	163.1	
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> . . . . .	823.9	815.0	847.2	848.0	-	676.8	668.2	694.5	693.7	
491	Electric services . . . . .	380.2	377.6	398.3	399.0	-	307.5	304.6	322.3	322.5	
492	Gas production and distribution . . . . .	173.0	169.3	175.3	175.1	-	142.0	138.2	144.4	143.8	
493	Combination utility services . . . . .	198.4	155.9	198.3	198.5	-	164.7	162.8	162.5	161.9	
495	Sanitary services . . . . .	48.4	49.1	51.7	51.9	-	42.9	43.6	45.7	46.0	
-	<b>WHOLESALE AND RETAIL TRADE</b> . . . . .	20,296	20,425	20,506	20,561	20,695	17,828	17,936	17,973	18,022	
50,51	<b>WHOLESALE TRADE</b> . . . . .	5,243	5,239	5,278	5,288	5,286	4,306	4,301	4,318	4,320	
50	<b>WHOLESALE TRADE - DURABLE GOODS</b> . . . . .	3,117	3,108	3,111	3,113	-	2,559	2,549	2,544	2,542	
501	Motor vehicles and automotive equipment . . . . .	445.8	444.7	422.6	422.1	-	363.8	362.6	340.9	339.9	
502	Furniture and home furnishing . . . . .	112.3	113.0	115.2	116.0	-	91.4	91.9	93.7	94.5	
503	Lumber and construction materials . . . . .	198.5	196.7	188.4	189.4	-	166.8	164.5	155.5	156.0	
504	Sporting goods, toys, and hobby goods . . . . .	69.3	69.7	72.4	72.7	-	56.9	57.3	59.0	59.0	
505	Metals and minerals, except petroleum . . . . .	154.1	154.0	150.0	150.3	-	125.6	125.7	121.0	120.5	
506	Electrical goods . . . . .	404.9	404.5	407.7	409.1	-	330.6	329.9	331.1	331.7	
507	Hardware, plumbing, and heating equipment . . . . .	245.3	244.4	243.2	243.1	-	201.4	201.0	200.1	199.5	

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980F	Sept. 1980P
	<b>WHOLESALE TRADE-DURABLE GOODS—</b>										
	Continued										
508	Machinery, equipment, and supplies	1,278.7	1,272.1	1,306.1	1,303.1	-	1,046.4	1,039.3	1,068.8	1,065.1	-
509	Miscellaneous durable goods	208.4	208.6	205.1	207.3	-	176.5	176.4	173.4	175.8	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b>	2,126	2,131	2,167	2,175	-	1,747	1,752	1,774	1,778	-
511	Paper and paper products	145.7	144.8	148.6	148.1	-	118.5	117.5	121.6	121.3	-
512	Drugs, proprietaries, and sundries	146.7	145.8	152.1	153.1	-	125.6	124.3	128.9	130.1	-
513	Apparel, piece goods, and notions	172.2	173.0	178.1	180.2	-	136.8	137.4	141.2	142.7	-
514	Groceries and related products	652.2	652.4	668.7	675.5	-	561.6	563.1	579.2	584.6	-
516	Chemicals and allied products	123.0	122.5	128.2	127.8	-	89.7	89.4	93.4	92.7	-
517	Petroleum and petroleum products	226.0	225.5	236.9	237.8	-	166.1	164.6	173.2	173.2	-
518	Beer, wine, and distilled beverages	137.5	136.1	139.1	138.9	-	117.1	115.7	117.1	116.5	-
519	Miscellaneous nondurable goods	383.1	381.7	387.6	386.8	-	317.1	315.7	314.6	313.7	-
52-59	<b>RETAIL TRADE</b>	15,053	15,186	15,228	15,273	15,409	13,522	13,635	13,655	13,702	13,80
52	<b>BUILDING MATERIALS AND GARDEN</b>										
	SUPPLIES	638.2	634.5	622.9	620.8	-	542.8	537.8	527.2	525.3	-
521	Lumber and other building materials	348.9	344.3	331.5	331.7	-	296.9	291.5	280.9	281.3	-
525	Hardware stores	149.4	149.3	154.6	154.1	-	129.2	128.8	132.6	132.0	-
53	<b>GENERAL MERCHANDISE STORES</b>	2,190.7	2,237.8	2,137.4	2,126.7	-	2,037.3	2,084.0	1,982.5	1,971.9	-
531	Department stores	1,775.0	1,817.7	1,731.1	1,719.1	-	1,661.3	1,703.2	1,615.3	1,607.3	-
533	Variety stores	274.9	276.8	264.5	267.5	-	253.2	256.2	242.6	245.6	-
539	Misc. general merchandise stores	140.8	143.3	141.8	140.1	-	122.8	124.6	120.6	119.0	-
54	<b>FOOD STORES</b>	2,282.0	2,304.2	2,392.9	2,397.1	-	2,107.7	2,124.4	2,209.3	2,216.6	-
541	Grocery stores	1,994.1	2,015.8	2,102.5	2,106.3	-	1,844.4	1,861.4	1,946.1	1,951.7	-
542	Meat markets and freezer provisioners	51.8	51.8	51.2	51.0	-	-	-	-	-	-
546	Retail bakeries	125.1	127.3	126.6	127.4	-	114.9	116.5	115.6	116.9	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE</b>										
	STATIONS	1,804.7	1,795.7	1,733.8	1,739.1	-	1,536.9	1,527.8	1,465.3	1,475.2	-
551.2	New and used car dealers	880.2	874.1	793.5	793.1	-	730.8	724.5	651.5	651.4	-
553	Auto and home supply stores	273.1	271.6	269.0	272.8	-	238.3	237.1	232.6	236.3	-
554	Gasoline service stations	555.9	559.1	576.3	579.4	-	485.6	488.5	501.6	505.2	-
56	<b>APPAREL AND ACCESSORY STORES</b>	526.1	536.5	934.8	944.5	-	797.5	807.8	799.0	808.9	-
561	Men's and boys' clothing and furnishings	135.3	137.8	133.9	134.0	-	114.9	117.1	113.2	113.2	-
562	Women's ready-to-wear stores	344.0	350.1	347.5	348.2	-	298.6	305.2	300.8	300.8	-
565	Family clothing stores	173.7	173.4	180.9	185.3	-	152.4	151.7	157.2	161.4	-
566	Shoe stores	177.4	179.3	175.0	178.4	-	148.4	150.1	144.2	148.4	-
57	<b>FURNITURE AND HOME FURNISHINGS</b>										
	STORES	609.4	612.0	588.6	588.4	-	504.6	504.2	487.9	487.0	-
571	Furniture and home furnishings	374.1	374.8	367.3	366.4	-	314.3	312.5	305.7	304.7	-
572	Household appliance stores	86.2	85.6	80.8	81.9	-	73.7	73.3	69.7	69.8	-
573	Radio, television, and music stores	149.1	151.6	140.5	140.1	-	116.6	119.0	112.5	112.5	-
58	<b>EATING AND DRINKING PLACES</b>	4,759.0	4,792.8	4,944.9	4,984.1	-	4,376.3	4,403.5	4,544.5	4,582.5	-
59	<b>MISCELLANEOUS RETAIL</b>	1,843.2	1,871.7	1,872.6	1,872.2	-	1,619.1	1,644.3	1,635.3	1,634.1	-
591	Drug stores and proprietary stores	489.6	489.0	500.5	502.7	-	446.1	445.4	453.0	455.1	-
592	Liquor stores	131.5	131.2	133.3	131.4	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	551.5	568.9	577.2	571.3	-	469.3	485.0	490.8	484.7	-
596	Nonstore retailers	275.1	283.2	253.4	257.4	-	258.2	265.9	235.5	239.7	-
598	Fuel and ice dealers	100.6	101.4	102.4	102.8	-	84.8	85.0	85.7	86.1	-
599	Retail stores, nec.	238.6	241.3	245.9	246.6	-	199.6	202.3	205.5	204.9	-
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	5,068	5,015	5,229	5,231	5,173	3,855	3,805	3,972	3,969	3,91
60	<b>BANKING</b>	1,513.6	1,487.7	1,562.1	1,561.8	-	1,173.9	1,157.4	1,205.0	1,204.1	-
602	Commercial and stock savings banks	1,383.1	1,368.3	1,424.3	1,424.1	-	1,067.7	1,052.5	1,091.8	1,091.2	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b>	559.3	555.1	558.1	559.9	-	427.0	423.1	421.4	423.1	-
612	Savings and loan associations	237.7	237.4	242.5	244.2	-	184.3	183.7	184.3	185.8	-
614	Personal credit institutions	210.9	207.5	207.4	206.7	-	159.9	157.2	155.8	155.4	-
62	<b>SECURITY, COMMODITY BROKERS, AND SERVICES</b>	204.4	203.2	214.3	216.6	-	-	-	-	-	-
621	Security brokers and dealers	163.7	162.5	170.2	172.6	-	-	-	-	-	-
63	<b>INSURANCE CARRIERS</b>	1,214.3	1,211.1	1,249.1	1,248.6	-	850.6	848.9	874.0	872.2	-
631	Life insurance	526.3	523.8	544.8	544.6	-	314.7	315.3	334.0	333.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>INSURANCE CARRIERS—Continued</b>										
632	Medical service and health insurance	136.9	136.2	141.9	142.1	-	109.3	108.6	114.1	114.1	-
633	Fire, marine, and casualty insurance	475.9	476.1	495.7	494.3	-	365.3	364.1	373.3	371.4	-
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b>	437.3	432.5	457.4	457.8	-	-	-	-	-	-
65	<b>REAL ESTATE</b>	1,000.3	977.3	1,041.9	1,039.2	-	-	-	-	-	-
651	Real estate operators and lessors	458.7	447.8	482.8	483.5	-	-	-	-	-	-
653	Real estate agents and managers	376.8	369.8	392.1	390.5	-	-	-	-	-	-
655	Subdividers and developers	140.8	136.1	145.4	143.5	-	-	-	-	-	-
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b>	23.5	23.1	23.3	23.5	-	-	-	-	-	-
67	<b>HOLDING AND OTHER INVESTMENT OFFICES</b>	115.2	114.5	122.4	123.2	-	-	-	-	-	-
-	<b>SERVICES</b>	17,315	17,238	17,973	17,945	17,899	15,363	15,292	16,016	15,994	15,927
70	<b>HOTELS AND OTHER LODGING PLACES</b>	1,165.7	1,093.9	1,196.5	1,205.2	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,092.5	1,052.7	1,118.8	1,122.1	-	1,007.2	969.1	1,031.4	1,033.2	-
72	<b>PERSONAL SERVICES</b>	912.4	920.5	916.2	908.3	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	355.9	357.9	353.0	352.6	-	317.0	319.4	315.9	315.1	-
723	Beauty shops	292.7	295.4	295.7	291.9	-	270.3	272.0	275.2	271.7	-
726	Funeral service and crematories	69.8	69.3	71.5	71.2	-	-	-	-	-	-
73	<b>BUSINESS SERVICES</b>	2,916.7	2,947.7	2,977.7	3,002.1	-	2,534.4	2,567.3	2,595.9	2,622.8	-
731	Advertising	146.0	145.8	149.4	147.9	-	108.3	108.1	113.4	112.1	-
732	Credit reporting and collection	77.3	76.5	71.2	70.7	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	113.8	115.2	120.2	120.3	-	-	-	-	-	-
734	Services to buildings	502.2	505.7	509.0	503.5	-	454.0	458.3	462.5	459.2	-
736	Personnel supply services	526.9	538.5	490.3	508.4	-	-	-	-	-	-
737	Computer and data processing services	270.1	271.8	294.0	295.5	-	222.5	223.9	245.4	247.4	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b>	574.5	576.5	582.8	577.4	-	489.0	493.3	495.6	492.4	-
753	Automotive repair shops	358.7	359.3	359.9	356.5	-	304.3	305.6	305.7	303.5	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b>	288.1	291.8	301.0	305.7	-	247.4	250.5	258.3	262.3	-
78	<b>MOTION PICTURES</b>	238.0	232.7	234.4	207.1	-	213.1	207.6	208.9	184.8	-
781	Motion picture production and services	85.7	89.1	79.9	54.9	-	75.2	78.0	67.7	46.0	-
783	Motion picture theaters	142.2	133.2	143.6	141.9	-	-	-	-	-	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b>	794.4	740.4	854.2	851.0	-	719.8	667.6	783.2	778.5	-
80	<b>HEALTH SERVICES</b>	5,027.9	5,020.4	5,266.3	5,286.2	-	4,475.2	4,465.4	4,706.3	4,729.1	-
801	Offices of physicians	730.2	727.0	761.7	765.3	-	598.9	595.1	626.2	630.8	-
802	Offices of dentists	324.3	325.0	341.8	341.5	-	281.4	280.9	297.7	298.4	-
805	Nursing and personal care facilities	562.9	558.4	1,002.9	1,010.6	-	866.8	860.9	903.5	911.9	-
806	Hospitals	2,621.0	2,618.6	2,745.7	2,751.1	-	2,393.0	2,391.5	2,521.3	2,527.0	-
81	<b>LEGAL SERVICES</b>	462.4	457.0	494.7	487.9	-	397.6	392.0	426.0	419.1	-
82	<b>EDUCATIONAL SERVICES</b>	524.0	1,044.7	969.4	972.0	-	-	-	-	-	-
821	Elementary and secondary schools	224.7	249.3	241.3	244.8	-	-	-	-	-	-
822	Colleges and universities	589.8	682.4	609.7	609.6	-	-	-	-	-	-
83	<b>SOCIAL SERVICES</b>	1,135.6	1,062.9	1,194.6	1,176.6	-	-	-	-	-	-
86	<b>MEMBERSHIP ORGANIZATIONS</b>	1,526.2	1,514.3	1,583.1	1,572.8	-	-	-	-	-	-
89	<b>MISCELLANEOUS SERVICES</b>	965.6	955.3	1,022.6	1,023.3	-	801.5	791.6	853.9	854.2	-
891	Engineering and architectural services	537.0	529.2	567.0	568.2	-	457.0	449.0	483.9	484.7	-
893	Accounting, auditing, and bookkeeping	298.7	297.9	315.4	315.6	-	237.2	237.1	253.6	253.4	-
-	<b>GOVERNMENT</b>	15,269	15,643	15,550	15,376	15,772	-	-	-	-	-
-	<b>FEDERAL GOVERNMENT</b>	2,844	2,751	2,949	2,872	2,780	-	-	-	-	-
-	Executive, by agency <sup>4</sup>	2,789.6	2,697.6	2,893.1	2,816.0	-	-	-	-	-	-
-	Department of Defense	908.5	887.2	911.5	894.8	-	-	-	-	-	-
-	Postal Service	665.4	659.0	667.3	665.1	-	-	-	-	-	-
-	Other executive agencies	1,215.7	1,151.6	1,314.3	1,256.1	-	-	-	-	-	-
-	Legislative	41.3	40.0	41.5	41.1	-	-	-	-	-	-
-	Judicial	13.4	13.0	14.8	15.0	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>FEDERAL GOVERNMENT—Continued</b>										
	Federal Government, by industry										
—	Manufacturing activities	124.1	121.8	123.7	121.8	-	-	-	-	-	-
3731	Shipbuilding and repairing	72.5	70.7	72.5	71.8	-	-	-	-	-	-
—	Transportation and public utilities, except										
—	Postal Service	44.8	45.4	46.0	44.4	-	-	-	-	-	-
—	Services	364.4	355.0	403.3	399.2	-	-	-	-	-	-
806	Federal government hospitals	228.0	225.3	237.7	232.9	-	-	-	-	-	-
—	<b>STATE AND LOCAL GOVERNMENT</b>	12,425	12,892	12,601	12,504	12,992	-	-	-	-	-
—	State government	3,368.6	3,504.9	3,401.0	3,388.1	-	-	-	-	-	-
806	State government hospitals	543.7	540.8	552.6	552.2	-	-	-	-	-	-
82	State education	1,163.8	1,337.9	1,171.5	1,166.0	-	-	-	-	-	-
—	General administration including executive, legislative, and judicial functions	1,020.9	1,004.0	1,037.1	1,029.8	-	-	-	-	-	-
—	Local government	9,056.1	9,387.1	9,199.9	9,115.4	-	-	-	-	-	-
—	Transportation and public utilities	601.3	600.6	627.5	631.8	-	-	-	-	-	-
806	Local government hospitals	571.0	569.2	592.4	594.4	-	-	-	-	-	-
82	Local education	4,263.6	4,820.2	4,263.6	4,210.7	-	-	-	-	-	-
—	General administration including executive, legislative, and judicial functions	3,185.8	2,993.7	3,257.3	3,220.9	-	-	-	-	-	-

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

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

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

<sup>4</sup> Prepared by the 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	June 1979	July 1979	May 1980	June 1980	July 1980
-	<b>TOTAL</b> .....	37,268	36,493	38,325	38,247	37,333
-	<b>PRIVATE SECTOR</b> .....	29,815	29,657	30,391	30,488	30,309
-	<b>MINING</b> .....	92	94	102	105	106
10	<b>METAL MINING</b> .....	9.0	9.2	9.2	10.0	8.4
11, 12	<b>COAL MINING</b> .....	9.4	9.5	11.2	11.3	11.1
13	<b>OIL AND GAS EXTRACTION</b> .....	64.9	66.2	72.1	74.6	76.6
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	41.4	42.4	46.3	48.4	49.7
138	Oil and gas field services.....	23.5	23.8	25.8	26.2	26.9
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	9.1	9.3	9.4	9.3	9.4
142	Crushed and broken stone.....	2.7	2.8	2.7	2.6	2.7
144	Sand and gravel.....	3.1	3.1	3.1	3.1	3.1
-	<b>CONSTRUCTION</b> .....	362	369	380	386	388
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	129.2	133.0	132.0	134.3	133.2
152	Residential building construction.....	72.9	75.8	75.0	76.7	75.8
153	Operative builders.....	18.2	18.2	15.3	15.2	15.1
154	Nonresidential building construction.....	38.1	39.0	41.7	42.4	42.3
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	57.8	59.5	58.2	60.2	61.0
161	Highway and street construction.....	18.1	19.1	17.9	19.0	19.3
162	Heavy construction, except highway.....	39.7	40.4	40.3	41.2	41.7
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	175.0	176.3	189.3	191.8	193.4
171	Plumbing, heating, air conditioning.....	48.8	50.0	53.7	53.5	54.4
172	Painting, paper hanging, decorating.....	12.0	12.3	12.1	12.6	12.7
173	Electrical work.....	30.9	31.5	34.8	35.7	36.1
174	Masonry, stonework, and plastering.....	19.2	19.5	21.8	21.7	22.2
175	Carpentering and flooring.....	14.3	13.9	14.0	14.0	14.2
176	Roofing and sheet metal work.....	11.8	11.7	13.3	13.4	13.4
-	<b>MANUFACTURING</b> .....	6,549	6,424	6,326	6,307	6,136
24, 25, 32-39	<b>DURABLE GOODS</b> .....	3,132	3,087	3,007	2,975	2,903
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	3,417	3,337	3,319	3,332	3,233
	<b>DURABLE GOODS</b>					
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	117.0	115.1	98.3	97.2	96.0
241	Logging camps and logging contractors.....	5.2	5.3	4.9	5.2	5.4
242	Sawmills and planing mills.....	23.6	23.4	20.0	19.9	19.7
2421	Sawmills and planing mills, general.....	16.4	16.4	14.0	14.2	14.5
243	Millwork, plywood, and structural members.....	47.4	46.7	39.2	37.1	36.8
244	Wooden containers.....	8.0	8.0	7.3	7.1	7.1
245	Wood buildings and mobile homes.....	11.6	11.3	7.9	7.8	7.7
249	Miscellaneous wood products.....	21.2	20.4	20.0	20.1	19.3
25	<b>FURNITURE AND FIXTURES</b> .....	144.7	141.8	139.8	135.1	128.3
251	Household furniture.....	106.4	103.6	101.7	97.1	90.5
2511	Wood household furniture.....	46.0	43.5	44.5	43.1	38.8
2512	Upholstered household furniture.....	36.2	35.0	33.3	32.3	31.1
2515	Mattresses and bedsprings.....	8.4	8.6	7.5	7.5	7.3
252	Office furniture.....	11.7	11.9	12.5	12.3	12.0
253	Public building and related furniture.....	5.5	5.5	5.3	5.3	5.2
254	Partitions and fixtures.....	10.8	10.5	9.9	10.0	10.2
259	Miscellaneous furniture and fixtures.....	10.3	10.3	10.4	10.4	10.4
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	136.4	135.0	127.6	126.2	122.9
322	Glass and glassware, pressed or blown.....	45.2	44.7	43.1	42.5	41.6
3221	Glass containers.....	26.0	25.5	23.6	23.6	23.1
3229	Pressed and blown glass, nec.....	19.2	19.2	19.5	18.9	18.5
323	Products of purchased glass.....	13.3	13.0	13.2	12.9	12.9
324	Cement, hydraulic.....	1.7	1.8	1.7	1.8	1.8
325	Structural clay products.....	7.2	7.0	6.3	6.4	6.1
326	Pottery and related products.....	16.6	16.2	15.5	15.1	13.4
327	Concrete, gypsum, and plaster products.....	15.6	15.8	14.9	15.0	15.1
329	Misc. nonmetallic mineral products.....	33.6	33.3	30.5	30.0	29.5
33	<b>PRIMARY METAL INDUSTRIES</b> .....	138.1	137.4	123.0	120.9	115.6
331	Blast furnace and basic steel products.....	45.8	47.2	39.9	37.9	36.4
3312	Blast furnaces and steel mills.....	35.8	37.2	30.3	28.7	27.4
332	Iron and steel foundries.....	21.2	20.5	18.4	18.0	17.4

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]		June 1979	July 1979	May 1980	June 1980	July 1980
1972 SIC Code	Industry					
<b>PRIMARY METAL INDUSTRIES—Continued</b>						
3321	Gray iron foundries .....	10.7	10.2	8.2	8.0	7.6
3322	Malleable iron foundries .....	1.7	1.7	1.2	1.1	1.0
3325	Steel foundries, nec .....	5.1	5.0	5.3	5.2	5.0
333	Primary nonferrous metals .....	4.9	5.0	5.2	5.4	4.7
3334	Primary aluminum .....	2.0	2.1	2.2	2.3	2.3
335	Nonferrous rolling and drawing .....	43.8	43.0	39.5	40.5	39.0
3351	Copper rolling and drawing .....	4.1	4.1	3.2	3.2	3.1
3353	Aluminum sheet, plate, and foil .....	4.8	4.8	4.5	4.5	4.1
3357	Nonferrous wire drawing and insulating .....	25.7	24.8	23.5	24.5	23.6
336	Nonferrous foundries .....	17.0	16.3	14.2	13.6	12.6
3381	Aluminum foundries .....	8.4	8.3	7.4	7.0	6.6
<b>FABRICATED METAL PRODUCTS</b>						
34		365.2	357.0	335.0	327.5	316.4
341	Metal cans and shipping containers .....	14.3	14.3	13.5	13.0	12.9
3411	Metal cans .....	12.4	12.4	11.6	11.2	11.1
342	Cutlery, hand tools, and hardware .....	63.4	61.1	56.8	54.8	50.3
3423, 5	Hand and edge tools, and hand saws and blades .....	17.7	17.2	16.7	16.4	15.0
3429	Hardware, nec .....	38.6	37.1	33.2	31.7	29.3
343	Plumbing and heating, except electric .....	19.5	19.1	15.7	15.0	14.5
344	Fabricated structural metal products .....	74.3	74.9	70.9	70.4	70.8
3441	Fabricated structural metal .....	7.7	7.6	7.9	7.9	7.5
3442	Metal doors, sash, and trim .....	23.9	24.3	19.3	19.3	20.1
3443	Fabricated plate work (boiler shops) .....	16.4	16.7	18.0	18.1	18.0
3444	Sheet metal work .....	16.3	16.3	15.7	15.4	15.5
345	Screw machine products, bolts, etc. ....	25.7	25.2	25.0	24.4	23.0
3451	Screw machine products .....	13.0	12.5	12.7	12.7	11.9
3452	Bolts, nuts, rivets, and washers .....	12.7	12.7	12.3	11.7	11.1
346	Metal forgings and stampings .....	59.1	56.7	49.7	48.3	46.8
3462	Iron and steel forgings .....	4.9	4.7	4.7	4.8	4.7
3465	Automotive stampings .....	16.2	14.9	10.0	9.3	8.9
3469	Metal stampings, nec .....	35.9	35.0	32.8	32.1	31.1
347	Metal services, nec .....	27.1	26.0	26.0	25.3	24.4
3471	Plating and polishing .....	18.5	17.7	17.8	17.5	16.6
3479	Metal coating and allied services .....	8.6	8.3	8.2	7.8	7.8
348	Ordinance and accessories, nec .....	18.7	18.6	17.5	17.6	17.3
349	Misc. fabricated metal products .....	63.1	61.1	59.9	58.7	56.4
3494	Valves and pipe fittings .....	24.0	23.5	23.6	23.1	22.3
3496	Misc. fabricated wire products .....	14.5	13.8	14.0	13.6	12.9
<b>MACHINERY, EXCEPT ELECTRICAL</b>						
35		473.6	477.0	495.1	492.1	486.5
351	Engines and turbines .....	26.6	26.6	25.5	25.1	24.7
3511	Turbines and turbine generator sets .....	5.7	5.8	5.8	5.9	5.8
3519	Internal combustion engines, nec .....	20.9	20.8	19.7	19.2	18.9
352	Farm and garden machinery .....	28.3	28.4	27.9	26.6	25.8
3523	Farm machinery and equipment .....	21.5	21.6	22.6	21.8	21.4
353	Construction and related machinery .....	43.8	44.0	48.4	46.7	48.1
3531	Construction machinery .....	13.7	13.8	14.9	14.9	14.5
3533	Oil field machinery .....	11.6	11.8	13.8	14.1	14.2
354	Metalworking machinery .....	56.0	55.8	59.1	58.7	57.5
3541	Machine tools, metal cutting types .....	9.6	9.8	10.5	10.5	10.5
3544	Special dies, tools, jigs, and fixtures .....	15.6	15.5	15.3	15.4	15.2
3545	Machine tool accessories .....	13.2	13.0	14.4	14.4	13.8
355	Special industry machinery .....	29.7	29.8	30.9	31.0	31.0
3551	Food products machinery .....	6.3	6.3	6.7	6.6	6.5
3552	Textile machinery .....	5.2	5.1	5.2	5.1	5.0
3555	Printing trades machinery .....	6.0	6.1	6.5	6.7	7.0
356	General industrial machinery .....	63.1	63.1	63.3	62.6	61.5
3561	Pumps and pumping equipment .....	11.8	11.6	11.4	11.2	11.1
3562	Ball and roller bearings .....	13.8	13.7	14.3	14.2	13.9
357	Office and computing machines .....	136.5	141.6	153.4	156.0	156.0
3573	Electronic computing equipment .....	110.2	114.5	125.3	127.8	127.9
358	Refrigeration and service machinery .....	39.9	38.2	37.3	35.6	35.5
3585	Refrigeration and heating equipment .....	26.4	25.1	24.2	22.6	22.5
359	Misc. machinery, except electrical .....	49.7	49.5	49.3	47.8	46.4
3599	Machinery, except electrical, nec .....	38.3	38.5	39.0	38.3	37.8
<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>						
36		912.6	902.6	903.5	893.8	869.6
361	Electric distributing equipment .....	46.8	45.5	44.7	43.0	40.0
3612	Transformers .....	19.7	19.1	19.0	17.9	16.7
3613	Switchgear and switchboard apparatus .....	27.1	26.4	25.7	25.1	23.3
362	Electrical industrial apparatus .....	98.4	97.1	91.2	87.4	84.9
3621	Motors and generators .....	54.9	53.7	48.3	45.6	43.9
3622	Industrial controls .....	29.3	29.1	29.3	28.3	28.0
363	Household appliances .....	60.7	60.3	58.2	55.7	53.3
3632	Household refrigerators and freezers .....	10.5	9.9	9.3	9.7	8.8
3633	Household laundry equipment .....	5.0	5.0	3.8	3.5	3.9
3634	Electric housewares and fans .....	26.8	27.2	27.6	27.2	25.6
364	Electric lighting and wiring equipment .....	105.5	102.7	98.4	95.0	90.8
3641	Electric lamps .....	24.5	24.1	22.2	21.4	21.6

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)						
1972 SIC Code	Industry	June 1979	July 1979	May 1980	June 1980	July 1980
<b>ELECTRIC AND ELECTRONIC EQUIPMENT—Continued</b>						
3643	Current-carrying wiring devices .....	45.8	45.0	46.0	45.0	42.8
365	Radio and TV receiving equipment .....	61.7	59.4	54.9	56.6	53.7
3651	Radio and TV receiving sets .....	45.2	43.7	41.1	42.5	40.3
366	Communication equipment .....	198.3	199.9	211.1	210.3	209.7
3661	Telephone and telegraph apparatus .....	81.9	83.1	85.9	83.8	81.9
3662	Radio and TV communication equipment .....	116.4	116.8	125.2	126.5	127.8
367	Electronic components and accessories .....	278.6	277.9	290.2	291.3	284.2
3671-3	Electronic tubes .....	16.6	16.7	17.2	17.3	17.3
3674	Semiconductors and related devices .....	94.9	96.1	104.7	106.5	106.7
3679	Electronic components, nec .....	114.4	112.7	115.3	115.2	112.0
369	Misc. electrical equipment and supplies .....	62.6	59.8	54.8	54.5	53.0
3694	Engine electrical equipment .....	31.9	30.3	23.8	23.3	22.9
37	<b>TRANSPORTATION EQUIPMENT</b> .....	331.3	325.6	286.4	285.8	285.5
371	Motor vehicles and equipment .....	149.4	142.3	101.0	99.6	96.3
3711	Motor vehicles and car bodies .....	61.0	58.5	40.8	41.3	41.1
3713	Truck and bus bodies .....	6.0	6.0	4.1	3.9	4.0
3714	Motor vehicle parts and accessories .....	79.5	74.9	53.3	51.7	48.4
372	Aircraft and parts .....	112.4	114.4	118.6	118.9	121.4
3721	Aircraft .....	63.5	64.8	63.7	63.4	65.8
3724	Aircraft engines and engine parts .....	25.0	25.5	28.2	28.5	28.5
3728	Aircraft equipment, nec .....	23.9	24.1	26.7	27.0	27.1
373	Ship and boat building and repairing .....	24.6	24.0	20.4	20.2	20.2
3731	Ship building and repairing .....	16.4	16.1	15.2	15.2	15.4
374	Railroad equipment .....	6.5	6.7	6.9	6.8	6.5
376	Guided missiles, space vehicles, parts .....	21.3	21.6	24.2	24.6	24.9
3761	Guided missiles and space vehicles .....	17.7	18.0	20.1	20.4	20.7
379	Miscellaneous transportation equipment .....	9.7	9.4	7.9	8.4	9.2
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	298.1	292.3	298.0	296.5	294.7
381	Engineering and scientific instruments .....	22.4	22.7	24.0	24.1	24.4
382	Measuring and controlling devices .....	102.6	102.4	103.4	102.5	101.0
3822	Environmental controls .....	25.0	24.6	23.9	22.4	20.8
3823	Process control instruments .....	16.7	16.8	17.6	18.2	18.4
3825	Instruments to measure electricity .....	44.3	44.1	45.1	45.5	45.4
383	Optical instruments and lenses .....	11.0	11.2	12.1	12.4	12.2
384	Medical instruments and supplies .....	77.1	73.4	79.3	79.3	78.7
3841	Surgical and medical instruments .....	35.7	32.8	37.1	36.8	36.7
3842	Surgical appliances and supplies .....	33.2	32.6	34.6	34.7	34.2
385	Ophthalmic goods .....	26.9	25.7	27.6	27.4	26.2
386	Photographic equipment and supplies .....	39.7	39.6	37.4	36.7	39.1
387	Watches, clocks, and watchcases .....	18.4	17.3	14.2	14.1	13.1
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	214.8	203.0	200.4	198.1	187.3
391	Jewelry, silverware, and plated ware .....	27.2	26.4	25.4	25.4	23.5
393	Musical instruments .....	10.6	10.1	8.4	8.3	8.5
394	Toys and sporting goods .....	66.1	62.7	63.6	62.1	59.6
3942, 4	Dolls, games, toys, and children's vehicles .....	35.1	32.5	32.6	33.2	32.2
3949	Sporting and athletic goods, nec .....	31.0	30.2	31.0	28.9	27.4
395	Pens, pencils, office and art supplies .....	21.4	21.2	22.1	21.8	21.2
396	Costume jewelry and notions .....	36.4	31.0	31.3	31.1	27.0
399	Miscellaneous manufactures .....	53.1	51.6	49.6	49.4	47.5
<b>NONDURABLE GOODS</b>						
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	504.8	515.0	471.3	484.9	501.3
201	Meat products .....	117.6	118.2	117.6	120.2	119.4
2011	Meat packing plants .....	27.8	27.8	29.5	30.1	29.5
2013	Sausages and other prepared meats .....	21.5	21.4	20.1	20.4	20.5
2016	Poultry dressing plants .....	60.5	61.2	60.3	62.8	62.4
202	Dairy products .....	38.6	38.7	37.5	38.8	38.8
2026	Fluid milk .....	18.3	18.4	18.6	18.9	18.7
203	Preserved fruits and vegetables .....	102.5	113.6	81.5	85.5	100.0
2032	Canned specialties .....	8.2	8.3	7.7	7.9	8.0
2033	Canned fruits and vegetables .....	31.2	44.6	25.0	26.0	43.1
2037	Frozen fruits and vegetables .....	27.6	24.3	19.0	19.9	16.5
204	Grain mill products .....	27.6	27.7	28.1	28.6	28.8
205	Bakery products .....	62.4	61.8	60.5	60.3	60.3
2051	Bread, cake, and related products .....	41.8	41.4	40.3	40.6	40.3
2052	Cookies and crackers .....	20.6	20.4	20.2	19.7	20.0
206	Sugar and confectionery products .....	39.6	39.0	36.7	36.3	36.4
207	Fats and oils .....	5.7	5.6	5.8	5.8	5.9
208	Beverages .....	38.3	38.3	39.6	40.4	40.5
2082	Malt beverages .....	6.5	6.7	7.3	7.6	7.9
2086	Bottled and canned soft drinks .....	17.8	17.9	18.7	19.0	19.3
209	Misc. foods and kindred products .....	72.5	72.1	64.0	69.0	71.2
21	<b>TOBACCO MANUFACTURES</b> .....	22.3	21.7	21.5	21.8	21.6
211	Cigarettes .....	13.8	13.8	13.4	13.8	13.7

**ESTABLISHMENT DATA**  
**WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	June 1979	July 1979	May 1980	June 1980	July 1980
22	<b>TEXTILE MILL PRODUCTS</b>	425.4	411.6	415.5	406.7	390.6
221	Weaving mills, cotton	65.7	65.2	66.6	66.0	64.2
222	Weaving mills, synthetics	50.7	49.7	49.4	44.2	46.0
223	Weaving and finishing mills, wool	7.8	7.3	7.5	7.5	6.4
224	Narrow fabric mills	15.7	13.7	14.3	14.5	12.5
225	Knitting mills	149.7	144.3	148.9	148.9	143.3
2251	Women's hosiery, except socks	24.6	24.0	24.6	24.5	23.7
2252	Hosiery, nec	24.8	24.2	23.8	23.7	22.7
2253	Knit outerwear mills	52.1	49.4	53.1	53.6	51.5
2254	Knit underwear mills	24.4	23.2	24.5	24.7	24.0
2257	Circular knit fabric mills	13.5	13.4	12.6	12.4	11.7
226	Textile finishing, except wool	23.2	22.6	22.8	22.6	20.8
2261	Finishing plants, cotton	9.6	9.6	9.6	9.5	9.0
2262	Finishing plants, synthetic	6.8	6.5	6.5	6.5	5.8
227	Floor covering mills	24.6	24.4	22.1	21.5	20.7
228	Yarn and thread mills	66.7	63.4	64.8	62.9	59.1
2281	Yarn mills, except wool	40.9	39.3	40.1	39.8	37.4
2282	Throwing and winding mills	15.4	14.4	13.9	13.3	12.9
229	Miscellaneous textile goods	21.3	21.0	19.1	18.6	17.0
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	1,081.1	1,030.4	1,055.7	1,061.9	998.9
231	Men's and boys' suits and coats	64.5	62.2	62.2	62.9	59.9
232	Men's and boys' furnishings	312.2	300.9	319.1	321.2	300.9
2321	Men's and boys' shirts and nightwear	93.1	87.5	91.4	92.3	86.0
2327	Men's and boys' separate trousers	65.9	63.8	66.8	67.1	62.6
2328	Men's and boys' work clothing	84.8	83.7	91.4	91.8	85.3
233	Women's and misses' outerwear	382.5	359.3	371.9	375.1	352.8
2331	Women's and misses' blouses and waists	57.9	54.5	55.0	55.9	52.2
2335	Women's and misses' dresses	141.1	134.1	133.0	134.6	127.1
2337	Women's and misses' suits and coats	56.8	52.1	53.2	55.1	52.1
2339	Women's and misses' outerwear, nec	126.7	118.6	130.7	129.5	121.4
234	Women's and children's undergarments	80.5	75.8	78.2	77.8	74.3
2341	Women's and children's underwear	64.8	61.2	63.3	63.3	60.5
2342	Brassieres and allied garments	15.7	14.6	14.9	14.5	13.8
236	Children's outerwear	58.1	56.1	54.8	56.1	51.9
2361	Children's dresses and blouses	24.7	24.2	22.2	22.7	21.1
238	Misc. apparel and accessories	46.9	43.6	44.5	44.6	41.3
239	Misc. fabricated textile products	122.3	118.5	111.2	110.4	103.9
2391	Curtains and draperies	23.3	21.8	22.4	21.8	20.3
2392	House furnishings, nec	33.5	32.6	32.6	32.2	30.8
2396	Automotive and apparel trimmings	17.3	16.7	13.0	13.2	11.3
26	<b>PAPER AND ALLIED PRODUCTS</b>	164.8	162.2	158.6	159.0	155.4
261, 2.6	Paper and pulp mills	27.9	28.1	27.8	28.3	28.5
262	Paper mills, except building paper	25.0	25.2	24.9	25.2	25.0
263	Paperboard mills	6.0	6.0	5.9	6.0	6.0
264	Misc. converted paper products	78.6	77.2	75.1	75.1	73.5
265	Paperboard containers and boxes	52.3	50.9	49.8	49.6	47.4
27	<b>PRINTING AND PUBLISHING</b>	478.5	480.9	500.8	502.4	499.4
271	Newspapers	151.4	153.1	161.3	163.8	163.1
272	Periodicals	48.8	48.9	49.7	49.8	50.2
273	Books	54.5	54.6	57.0	56.2	55.1
274	Miscellaneous publishing	24.3	24.5	25.8	25.7	25.3
275	Commercial printing	125.9	125.7	132.2	132.0	131.2
2751	Commercial printing, letterpress	55.0	54.7	55.8	55.8	56.0
2752	Commercial printing, lithographic	65.6	65.9	70.4	70.4	69.4
276	Manifold business forms	15.1	15.1	15.1	15.0	14.8
278	Blankbooks and bookbinding	34.6	34.3	34.1	34.2	33.6
279	Printing trade services	9.6	9.8	11.0	11.0	11.1
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	275.3	275.6	277.6	280.9	279.2
281	Industrial inorganic chemicals	23.8	24.3	24.9	25.2	25.0
2819	Industrial inorganic chemicals, nec	16.0	16.2	16.3	16.5	16.5
282	Plastics materials and synthetics	45.1	45.2	43.4	43.0	41.9
2821	Plastics materials and resins	11.6	11.7	11.7	11.8	11.8
2824	Organic fibers, noncellulosic	27.1	27.0	24.8	24.5	23.6
283	Drugs	80.9	80.5	83.3	84.3	84.5
2834	Pharmaceutical preparations	68.8	68.1	70.4	71.2	71.4
284	Soap, cleaners, and toilet goods	56.7	56.4	55.4	56.8	56.5
2841	Soap and other detergents	9.4	9.3	9.2	9.6	9.2
2844	Toilet preparations	34.0	34.1	33.2	34.0	34.0
285	Paints and allied products	12.8	13.0	12.9	12.9	12.8
286	Industrial organic chemicals	25.5	25.6	25.9	26.5	26.9
2861.9	Gum, wood, and industrial organic chemicals, nec	20.8	20.8	20.9	21.7	22.1
287	Agricultural chemicals	10.3	10.3	11.1	11.1	10.8
289	Miscellaneous chemical products	20.2	20.3	20.7	21.1	20.8

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

[In thousands]						
1972 SIC Code	Industry	June 1979	July 1979	May 1980	June 1980	July 1980
29	<b>PETROLEUM AND COAL PRODUCTS</b>	26.8	27.2	26.8	28.2	28.8
291	Petroleum refining	21.7	21.9	21.6	23.0	23.5
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	280.1	274.8	244.0	238.1	225.9
301	Tires and inner tubes	11.9	11.8	9.9	9.7	9.4
302	Rubber and plastics footwear	13.8	12.6	13.6	14.0	12.5
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.7	6.5	5.3	5.3	4.4
306	Fabricated rubber products, nec	42.8	42.1	35.5	34.3	32.5
307	Miscellaneous plastics products	204.9	201.8	179.7	174.8	167.1
31	<b>LEATHER AND LEATHER PRODUCTS</b>	157.7	138.0	147.3	148.3	131.4
311	Leather tanning and finishing	3.1	2.8	2.6	2.5	2.4
314	Footwear, except rubber	104.8	89.7	102.6	103.7	89.8
3143	Men's footwear, except athletic	38.7	33.5	36.0	36.5	31.0
3144	Women's footwear, except athletic	43.6	35.8	43.4	44.1	37.6
316	Luggage	9.8	9.7	7.5	7.7	7.7
317	Handbags and personal leather goods	24.7	22.6	21.3	21.2	20.3
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	1,249	1,233	1,291	1,296	1,277
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>	58.8	37.1	69.8	65.8	42.4
411	Local and suburban transportation	11.0	11.2	13.4	13.3	13.2
412	Taxicabs	6.9	6.8	7.5	7.2	7.2
413	Intercity highway transportation	4.7	4.7	5.3	5.6	5.9
415	School buses	33.7	12.3	41.0	37.0	13.9
42	<b>TRUCKING AND WAREHOUSING</b>	153.3	153.9	150.9	151.8	150.6
421,3	Trucking and trucking terminals	137.1	137.6	134.8	136.5	135.3
422	Public warehousing	16.2	16.3	16.1	15.3	15.3
44	<b>WATER TRANSPORTATION</b>	20.3	20.8	19.1	20.2	20.9
45	<b>TRANSPORTATION BY AIR</b>	141.2	141.7	147.9	148.5	149.4
451,2	Air transportation	133.2	133.7	139.5	140.0	140.9
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b>	2.3	2.3	2.5	2.6	2.7
47	<b>TRANSPORTATION SERVICES</b>	87.0	87.7	91.8	90.9	91.1
48	<b>COMMUNICATION</b>	620.7	621.8	630.9	636.3	639.1
481	Telephone communication	544.9	545.8	548.2	552.6	554.9
483	Radio and television broadcasting	59.0	59.0	63.7	64.6	65.0
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	142.2	144.4	152.9	155.9	157.4
491	Electric services	64.0	64.8	70.6	72.0	72.7
492	Gas production and distribution	35.7	36.3	36.2	37.3	38.0
493	Combination utility services	32.9	33.5	35.7	35.7	35.7
495	Sanitary services	4.8	4.9	5.6	5.8	6.1
-	<b>WHOLESALE AND RETAIL TRADE</b>	8,711	8,678	8,923	8,970	8,903
50,51	<b>WHOLESALE TRADE</b>	1,323	1,320	1,360	1,365	1,362
50	<b>WHOLESALE TRADE-DURABLE GOODS</b>	736	736	761	758	752
501	Motor vehicles and automotive equipment	96.5	96.1	92.3	92.3	91.5
502	Furniture and home furnishings	40.3	40.1	43.9	43.9	43.8
503	Lumber and construction materials	33.5	33.7	34.3	34.3	34.5
504	Sporting goods, toys, and hobby goods	24.1	24.0	24.6	24.2	24.0
505	Metals and minerals, except petroleum	27.7	27.9	29.8	29.4	29.5
506	Electrical goods	114.1	113.4	118.0	118.3	116.4
507	Hardware, plumbing, and heating equipment	68.5	68.6	67.7	67.1	66.0
508	Machinery, equipment, and supplies	281.7	284.2	300.6	300.9	298.3
509	Miscellaneous durable goods	50.0	48.3	49.8	47.9	47.5
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b>	587	584	599	607	610
511	Paper and paper products	43.1	43.0	44.6	45.3	45.3
512	Drugs, proprietaries, and sundries	64.6	64.5	66.7	66.7	65.8
513	Apparel, piece goods, and notions	82.2	82.3	85.4	86.4	86.3
514	Groceries and related products	147.0	145.8	150.9	155.1	158.1
516	Chemicals and allied products	32.0	31.8	32.6	33.1	33.2
517	Petroleum and petroleum products	50.5	50.6	54.1	55.1	56.3
518	Beer, wine, and distilled beverages	20.3	20.5	20.7	20.7	20.9
519	Miscellaneous nondurable goods	112.6	112.6	114.6	114.3	113.8

# ESTABLISHMENT DATA WOMEN EMPLOYEES

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

[In thousands]

1972 SIC Code	Industry	June 1979	July 1979	May 1980	June 1980	July 1980
52-59	<b>RETAIL TRADE</b> .....	7,388	7,358	7,563	7,605	7,541
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	156.5	155.2	165.8	163.3	159.4
521	Lumber and other building materials .....	64.0	64.3	65.0	65.1	65.0
525	Hardware stores .....	53.5	53.7	56.5	56.4	56.5
53	<b>GENERAL MERCHANDISE STORES</b> .....	1,479.7	1,468.4	1,453.1	1,454.3	1,443.8
531	Department stores .....	1,174.9	1,164.3	1,156.5	1,157.7	1,147.9
533	Variety stores .....	214.0	212.6	204.4	204.1	203.0
539	Misc. general merchandise stores .....	90.8	91.5	92.2	92.5	92.9
54	<b>FOOD STORES</b> .....	944.3	947.3	1,005.8	1,013.2	1,015.3
541	Grocery stores .....	787.9	793.0	840.6	847.6	852.7
542	Meat markets and freezer provisioners .....	17.4	17.4	17.8	17.3	16.9
546	Retail bakeries .....	76.1	73.9	79.8	79.5	77.9
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	320.4	315.4	316.6	318.8	318.6
551,2	New and used car dealers .....	126.4	124.7	116.9	114.4	114.3
553	Auto and home supply stores .....	50.4	49.8	47.7	47.8	47.4
554	Gasoline service stations .....	124.6	122.2	133.7	137.9	138.0
56	<b>APPAREL AND ACCESSORY STORES</b> .....	644.9	634.6	658.4	656.5	651.2
561	Men's and boys' clothing and furnishings .....	60.3	59.7	59.8	60.5	58.5
562	Women's ready-to-wear stores .....	309.8	302.5	312.7	308.6	306.4
565	Family clothing stores .....	127.3	127.2	135.5	136.4	136.5
566	Shoe stores .....	75.2	74.3	76.9	76.8	75.0
57	<b>FURNITURE AND HOME FURNISHING STORES</b> .....	198.4	198.1	199.7	196.7	194.9
571	Furniture and home furnishings .....	131.9	131.2	132.9	133.2	132.1
572	Household appliance stores .....	23.4	23.4	22.0	21.7	22.1
573	Radio, television, and music stores .....	43.1	43.5	44.8	41.8	40.7
58	<b>EATING AND DRINKING PLACES</b> .....	2,660.5	2,664.0	2,754.4	2,804.3	2,776.0
59	<b>MISCELLANEOUS RETAIL</b> .....	982.8	974.9	1,008.7	998.3	981.8
591	Drug stores and proprietary stores .....	303.9	303.9	312.3	311.7	307.7
592	Liquor stores .....	32.2	32.4	30.6	31.2	31.2
594	Miscellaneous shopping goods stores .....	333.3	332.9	348.2	346.7	342.8
596	Nonstore retailers .....	150.6	149.1	149.3	146.4	144.1
598	Fuel and ice dealers .....	22.7	22.5	23.3	23.0	22.8
599	Retail stores, nec .....	117.8	112.9	124.3	118.0	112.8
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,892	2,908	3,014	3,036	3,056
60	<b>BANKING</b> .....	1,049.0	1,055.4	1,089.5	1,100.3	1,104.6
602	Commercial and stock savings banks .....	966.5	972.1	1,003.4	1,012.8	1,016.7
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	361.1	362.5	364.2	363.5	367.7
612	Savings and loan associations .....	171.6	172.7	174.1	174.2	177.1
614	Personal credit institutions .....	121.2	121.0	123.8	123.0	123.1
62	<b>SECURITY, COMMODITY BROKERS, AND SERVICES</b> .....	76.9	77.8	84.7	86.7	88.0
621	Security brokers and dealers .....	60.4	61.0	66.6	67.8	68.9
63	<b>INSURANCE CARRIERS</b> .....	717.2	720.3	750.6	754.1	759.1
631	Life insurance .....	268.7	270.8	294.8	297.4	299.9
632	Medical service and health insurance .....	98.2	98.3	101.3	101.4	102.8
633	Fire, marine, and casualty insurance .....	298.9	300.1	309.3	310.5	311.6
64	<b>INSURANCE AGENTS, BROKERS, AND SERVICE</b> .....	263.1	263.7	280.9	282.2	284.4
65	<b>REAL ESTATE</b> .....	352.0	355.5	366.4	371.5	373.1
651	Real estate operators and lessors .....	135.3	137.1	142.8	145.0	144.9
653	Real estate agents and managers .....	168.8	170.1	174.0	176.4	178.3
655	Subdividers and developers .....	31.1	31.4	34.8	35.5	35.4
66	<b>COMBINED REAL ESTATE, INSURANCE, ETC.</b> .....	15.0	14.8	14.9	15.0	14.9
67	<b>HOLDING AND OTHER INVESTMENT OFFICES</b> .....	57.7	58.3	62.3	63.1	64.1
-	<b>SERVICES</b> .....	9,960	9,951	10,355	10,388	10,443
70	<b>HOTELS AND OTHER LODGING PLACES</b> .....	601.5	630.7	595.2	621.3	659.1
701	Hotels, motels, and tourist courts .....	577.2	591.6	575.8	554.5	616.8

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	June 1979	July 1979	May 1980	June 1980	July 1980
72	<b>PERSONAL SERVICES</b> .....	618.1	612.4	638.5	630.6	627.7
721	Laundry, cleaning, and garment services .....	227.5	224.2	224.4	224.0	222.1
723	Beauty shops .....	261.0	261.9	262.5	261.6	263.7
726	Funeral service and crematories .....	17.9	18.8	19.6	19.6	19.4
73	<b>BUSINESS SERVICES</b> .....	1,232.1	1,232.8	1,258.6	1,260.7	1,262.6
731	Advertising .....	66.7	67.2	69.4	69.0	69.3
732	Credit reporting and collection .....	57.8	57.9	51.5	51.1	51.1
733	Mailing, reproduction, stenographic .....	53.8	53.9	58.4	59.3	58.7
734	Services to buildings .....	179.1	177.4	186.7	189.0	188.0
736	Personnel supply services .....	298.4	297.8	303.6	293.2	293.5
737	Computer and data processing services .....	124.2	126.1	131.7	134.0	134.8
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	96.5	98.2	98.4	99.0	97.1
753	Automotive repair shops .....	43.5	45.5	42.9	43.2	42.4
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	58.0	58.5	62.4	62.0	61.8
78	<b>MOTION PICTURES</b> .....	87.5	88.8	83.4	87.8	90.3
781	Motion picture production and services .....	23.3	23.8	23.9	24.8	25.0
783	Motion picture theaters .....	58.6	59.3	53.9	57.1	59.5
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	315.0	317.8	301.6	329.2	336.5
80	<b>HEALTH SERVICES</b> .....	4,068.7	4,071.2	4,215.8	4,260.6	4,283.2
801	Offices of physicians .....	566.8	566.7	584.7	587.7	592.6
802	Offices of dentists .....	279.7	275.1	290.1	292.6	291.1
805	Nursing and personal care facilities .....	853.8	854.4	880.6	891.2	893.9
806	Hospitals .....	2,099.8	2,108.6	2,173.2	2,201.7	2,217.2
81	<b>LEGAL SERVICES</b> .....	324.7	324.4	338.5	343.9	347.8
82	<b>EDUCATIONAL SERVICES</b> .....	503.2	457.8	589.2	523.2	487.8
821	Elementary and secondary schools .....	151.5	134.2	168.8	160.1	139.6
822	Colleges and universities .....	286.4	260.3	300.5	293.7	280.8
83	<b>SOCIAL SERVICES</b> .....	807.3	818.0	864.9	852.3	870.3
89	<b>MISCELLANEOUS SERVICES</b> .....	286.4	287.1	316.7	320.9	325.2
891	Engineering and architectural services .....	105.1	106.4	115.0	117.7	118.5
893	Accounting, auditing, and bookkeeping .....	127.1	126.4	141.5	142.3	144.0
-	<b>GOVERNMENT</b> .....	7,453	6,836	7,934	7,759	7,024
-	<b>FEDERAL GOVERNMENT</b> .....	877	881	945	957	938
-	<b>STATE AND LOCAL GOVERNMENT</b> .....	6,576	5,955	6,989	6,802	6,086
-	State government .....	1,500.9	1,455.4	1,647.7	1,565.0	1,507.3
-	Hospitals .....	318.9	315.7	347.0	348.7	348.0
-	State education .....	558.3	510.1	677.7	592.3	533.2
-	General administration including executive, legislative, and judicial functions .....	421.8	422.6	418.7	417.0	416.2
-	Local government .....	5,075.1	4,499.4	5,341.4	5,237.1	4,578.5
-	Transportation and public utilities .....	89.7	89.6	97.3	99.4	100.6
-	Hospitals .....	443.9	447.6	473.0	477.2	479.6
-	Local education .....	3,313.9	2,649.7	3,523.2	3,358.2	2,604.0
-	General administration including executive, legislative, and judicial functions .....	1,001.7	1,070.7	1,021.0	1,064.6	1,132.4

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. P	Sept. P
<b>TOTAL</b> .....	90,283	90,441	90,552	90,678	91,031	91,186	91,144	90,951	90,468	90,047	89,867	90,109	90,296
<b>GOODS-PRODUCING</b> .....	26,554	26,554	26,504	26,590	26,715	26,623	26,476	26,121	25,745	25,422	25,163	25,314	25,422
<b>MINING</b> .....	976	982	985	992	999	1,007	1,009	1,012	1,023	1,029	1,013	1,014	1,020
<b>CONSTRUCTION</b> .....	4,507	4,525	4,553	4,615	4,745	4,659	4,529	4,467	4,436	4,379	4,322	4,354	4,399
<b>MANUFACTURING</b> .....	21,071	21,043	20,966	20,983	20,971	20,957	20,938	20,642	20,286	20,014	19,828	19,946	20,003
<b>DURABLE GOODS</b> .....	12,822	12,764	12,693	12,706	12,681	12,715	12,707	12,442	12,140	11,947	11,819	11,860	11,914
Lumber and wood products .....	767	768	757	746	743	745	737	689	654	648	650	662	670
Furniture and fixtures .....	497	498	498	497	497	495	494	491	472	461	449	448	453
Stone, clay, and glass products .....	708	705	704	704	705	705	700	680	663	647	641	646	651
Primary metal industries .....	1,242	1,236	1,230	1,219	1,215	1,214	1,209	1,193	1,144	1,096	1,049	1,059	1,074
Fabricated metal products .....	1,723	1,723	1,722	1,718	1,707	1,711	1,711	1,678	1,620	1,584	1,551	1,570	1,584
Machinery, except electrical .....	2,518	2,478	2,460	2,459	2,532	2,529	2,530	2,518	2,517	2,476	2,448	2,440	2,430
Electric and electronic equipment .....	2,140	2,149	2,150	2,163	2,169	2,168	2,176	2,167	2,127	2,094	2,079	2,085	2,089
Transportation equipment .....	2,090	2,063	2,033	2,057	1,970	2,006	2,006	1,885	1,819	1,831	1,839	1,840	1,850
Instruments and related products .....	693	696	695	698	699	702	705	703	700	696	698	698	702
Miscellaneous manufacturing ind. ....	444	444	444	445	444	440	439	438	424	414	415	412	411
<b>NONDURABLE GOODS</b> .....	8,249	8,279	8,273	8,277	8,290	8,242	8,231	8,200	8,146	8,067	8,009	8,086	8,089
Food and kindred products .....	1,712	1,723	1,725	1,724	1,716	1,713	1,704	1,690	1,691	1,677	1,683	1,694	1,664
Tobacco manufactures .....	70	70	64	66	67	68	68	69	70	71	69	67	67
Textile mill products .....	881	885	887	889	888	888	888	884	869	843	833	848	851
Apparel and other textile products .....	1,298	1,302	1,294	1,296	1,305	1,313	1,316	1,302	1,291	1,287	1,276	1,299	1,305
Paper and allied products .....	708	705	708	708	710	709	708	702	692	685	680	682	686
Printing and publishing .....	1,245	1,251	1,259	1,261	1,269	1,273	1,274	1,272	1,268	1,269	1,266	1,266	1,266
Chemicals and allied products .....	1,110	1,114	1,116	1,118	1,121	1,121	1,123	1,120	1,112	1,103	1,100	1,100	1,105
Petroleum and coal products .....	211	212	212	213	214	161	157	175	203	205	207	208	207
Rubber and misc. plastic products .....	767	766	762	756	755	751	749	740	703	681	663	680	693
Leather and leather products .....	247	247	246	246	245	245	244	243	239	237	229	242	245
<b>SERVICE-PRODUCING</b> .....	63,729	63,887	64,048	64,088	64,316	64,563	64,668	64,830	64,723	64,625	64,704	64,795	64,874
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	5,185	5,203	5,216	5,212	5,202	5,198	5,202	5,178	5,167	5,134	5,114	5,124	5,117
<b>WHOLESALE AND RETAIL TRADE</b> .....	20,352	20,414	20,479	20,448	20,529	20,637	20,610	20,531	20,487	20,459	20,506	20,571	20,623
<b>WHOLESALE TRADE</b> .....	5,228	5,246	5,269	5,251	5,278	5,302	5,301	5,286	5,268	5,245	5,247	5,267	5,275
<b>RETAIL TRADE</b> .....	15,124	15,168	15,210	15,197	15,251	15,335	15,309	15,245	15,219	15,214	15,259	15,304	15,348
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	5,017	5,033	5,049	5,064	5,091	5,101	5,115	5,119	5,137	5,150	5,167	5,179	5,173
<b>SERVICES</b> .....	17,192	17,264	17,308	17,362	17,462	17,540	17,580	17,618	17,659	17,652	17,760	17,767	17,845
<b>GOVERNMENT</b> .....	15,983	15,973	15,996	16,002	16,032	16,087	16,161	16,384	16,273	16,230	16,157	16,154	16,116
<b>FEDERAL</b> .....	2,762	2,765	2,773	2,773	2,791	2,826	2,886	3,115	2,960	2,951	2,893	2,838	2,791
<b>STATE AND LOCAL</b> .....	13,221	13,204	13,223	13,229	13,241	13,261	13,275	13,269	13,313	13,279	13,264	13,316	13,325

p=preliminary.



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

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

(In thousands)

Industry division and group	1979						1980						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
<b>TOTAL</b> .....	37,230	37,431	37,350	37,521	37,693	37,739	37,941	38,139	38,157	38,213	38,059	37,997	38,069
<b>GOODS-PRODUCING</b> .....	6,963	6,912	6,935	6,965	6,967	6,990	7,010	7,017	7,025	6,965	6,832	6,742	6,699
<b>MINING</b> .....	94	95	93	94	95	95	95	97	99	100	102	105	106
<b>CONSTRUCTION</b> .....	362	362	366	367	371	373	375	377	380	382	382	380	381
<b>MANUFACTURING</b> .....	6,507	6,455	6,476	6,504	6,501	6,522	6,540	6,543	6,546	6,483	6,348	6,257	6,212
<b>DURABLE GOODS</b> .....	3,116	3,077	3,115	3,119	3,120	3,136	3,140	3,141	3,148	3,103	3,008	2,954	2,930
Lumber and wood products .....	114	114	116	116	113	112	111	112	112	104	98	95	95
Furnitures and fixtures .....	148	148	147	147	147	147	147	146	146	146	140	136	133
Stone, clay, and glass products .....	134	133	134	134	134	135	135	135	135	132	127	124	122
Primary metal industries <sup>1</sup> .....	137	135	135	134	134	133	132	132	132	131	123	121	116
Fabricated metal products .....	361	360	360	361	362	362	362	362	361	352	334	323	320
Machinery, except electrical <sup>1</sup> .....	477	475	483	483	486	489	500	501	503	500	495	492	487
Electric and electronic equipment .....	914	898	911	916	918	929	932	933	937	931	906	888	880
Transportation equipment <sup>1</sup> .....	326	308	324	322	320	320	311	310	311	298	286	286	286
Instruments and related products .....	294	295	295	296	296	297	298	300	302	301	298	294	296
Miscellaneous manufacturing ind. ....	211	211	210	210	210	212	212	210	209	208	201	195	195
<b>NONDURABLE GOODS</b> .....	3,391	3,378	3,361	3,385	3,381	3,386	3,400	3,402	3,398	3,380	3,340	3,303	3,282
Food and kindred products .....	506	507	499	512	510	511	510	509	503	500	499	491	492
Tobacco manufactures .....	25	25	26	26	23	23	24	24	24	25	25	25	25
Textile mill products .....	419	419	419	420	422	424	423	424	424	422	415	401	397
Apparel and other textile products .....	1,072	1,057	1,051	1,055	1,050	1,050	1,059	1,064	1,066	1,056	1,047	1,042	1,039
Paper and allied products .....	162	162	161	162	161	161	162	162	162	162	159	156	155
Printing and publishing .....	482	484	487	490	494	496	500	502	503	502	501	502	500
Chemicals and allied products .....	273	272	271	274	276	278	278	280	280	280	278	278	277
Petroleum and coal products <sup>1</sup> .....	27	27	27	27	27	28	28	23	23	24	27	28	29
Rubber and misc. plastics products .....	281	275	270	269	268	266	267	265	264	261	244	236	231
Leather and leather products .....	144	150	150	150	150	149	149	149	149	148	145	144	137
<b>SERVICE-PRODUCING</b> .....	30,267	30,519	30,415	30,556	30,726	30,749	30,931	31,122	31,132	31,248	31,227	31,255	31,370
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	1,241	1,249	1,258	1,262	1,274	1,273	1,273	1,280	1,283	1,286	1,290	1,286	1,286
<b>WHOLESALE AND RETAIL TRADE</b> .....	8,751	8,781	8,804	8,842	8,875	8,846	8,926	8,995	8,973	8,947	8,945	8,981	8,976
<b>WHOLESALE TRADE</b> .....	1,326	1,327	1,330	1,333	1,341	1,343	1,351	1,361	1,365	1,363	1,365	1,361	1,367
<b>RETAIL TRADE</b> .....	7,425	7,454	7,474	7,509	7,534	7,503	7,575	7,634	7,608	7,584	7,578	7,620	7,609
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	2,887	2,906	2,912	2,930	2,941	2,952	2,982	3,001	3,008	3,019	3,023	3,018	3,035
<b>SERVICES</b> .....	9,924	9,955	9,991	10,031	10,063	10,094	10,150	10,225	10,217	10,261	10,303	10,306	10,412
<b>GOVERNMENT</b> .....	7,464	7,628	7,450	7,491	7,573	7,584	7,600	7,621	7,651	7,736	7,668	7,664	7,661
<b>FEDERAL</b> .....	859	874	863	864	863	869	873	885	912	1,000	941	936	914
<b>STATE AND LOCAL</b> .....	6,605	6,754	6,587	6,627	6,710	6,715	6,727	6,736	6,739	6,736	6,727	6,728	6,747

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

# ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. P	Sept. P
<b>TOTAL PRIVATE</b> .....	60,667	60,755	60,857	60,958	61,206	61,308	61,124	60,725	60,325	59,964	59,888	60,108	60,307
<b>GOODS-PRODUCING</b> .....	19,386	19,366	19,306	19,382	19,471	19,371	19,181	18,814	18,438	18,144	17,901	18,030	18,160
<b>MINING</b> .....	734	736	737	740	746	750	750	755	764	770	757	755	762
<b>CONSTRUCTION</b> .....	3,594	3,607	3,621	3,666	3,814	3,750	3,581	3,509	3,488	3,443	3,385	3,403	3,440
<b>MANUFACTURING</b> .....	15,058	15,025	14,948	14,956	14,911	14,871	14,850	14,550	14,186	13,931	13,759	13,872	13,958
<b>DURABLE GOODS</b> .....	9,129	9,065	9,001	9,009	8,953	8,967	8,961	8,686	8,386	8,205	8,084	8,114	8,192
Lumber and wood products .....	654	656	644	633	629	629	621	577	544	538	542	553	562
Furniture and fixtures .....	405	406	406	405	404	403	401	398	380	369	359	359	364
Stone, clay, and glass products .....	558	556	553	553	554	553	549	530	513	498	492	497	503
Primary metal industries .....	975	968	962	952	948	945	941	924	877	832	793	802	816
Fabricated metal products .....	1,301	1,299	1,298	1,293	1,282	1,286	1,286	1,252	1,195	1,166	1,136	1,150	1,166
Machinery, except electrical .....	1,656	1,625	1,613	1,606	1,659	1,649	1,649	1,630	1,622	1,586	1,561	1,546	1,546
Electric and electronic equipment .....	1,398	1,403	1,397	1,409	1,414	1,408	1,413	1,400	1,358	1,320	1,305	1,312	1,320
Transportation equipment .....	1,423	1,397	1,371	1,397	1,304	1,336	1,339	1,220	1,159	1,172	1,172	1,173	1,186
Instruments and related products .....	420	421	419	421	421	423	427	423	419	415	414	415	423
Miscellaneous manufacturing ind. ....	339	338	338	340	338	335	335	332	319	309	310	307	306
<b>NONDURABLE GOODS</b> .....	5,929	5,956	5,947	5,947	5,958	5,904	5,889	5,864	5,800	5,726	5,675	5,758	5,766
Food and kindred products .....	1,172	1,184	1,187	1,188	1,182	1,177	1,169	1,157	1,157	1,143	1,149	1,159	1,134
Tobacco manufactures .....	56	56	49	52	53	53	53	54	55	55	54	52	52
Textile mill products .....	768	772	773	776	776	775	775	771	756	731	721	737	741
Apparel and other textile products .....	1,110	1,114	1,108	1,108	1,117	1,123	1,126	1,111	1,100	1,097	1,093	1,110	1,113
Paper and allied products .....	538	535	538	537	539	538	537	532	522	515	509	512	515
Printing and publishing .....	706	709	715	714	718	719	717	715	709	711	708	711	713
Chemicals and allied products .....	633	635	636	637	639	637	636	637	632	625	616	615	619
Petroleum and coal products .....	137	137	137	138	139	91	88	109	131	131	132	134	135
Rubber and misc. plastics products .....	599	595	595	589	588	584	582	573	537	518	502	522	535
Leather and leather products .....	210	211	205	208	207	207	206	205	201	200	191	206	209
<b>SERVICE-PRODUCING</b> .....	41,281	41,427	41,551	41,576	41,735	41,937	41,943	41,911	41,887	41,820	41,987	42,078	42,147
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,342	4,360	4,370	4,361	4,347	4,346	4,345	4,329	4,314	4,282	4,260	4,273	4,278
<b>WHOLESALE AND RETAIL TRADE</b> ..	17,878	17,938	17,990	17,970	18,028	18,138	18,098	18,029	17,975	17,936	17,984	18,028	18,064
<b>WHOLESALE TRADE</b> .....	4,291	4,306	4,321	4,318	4,332	4,348	4,347	4,334	4,308	4,284	4,288	4,299	4,310
<b>RETAIL TRADE</b> .....	13,587	13,632	13,669	13,652	13,696	13,790	13,751	13,695	13,667	13,652	13,696	13,729	13,754
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,805	3,811	3,819	3,822	3,844	3,860	3,869	3,873	3,893	3,898	3,917	3,926	3,910
<b>SERVICES</b> .....	15,256	15,318	15,372	15,423	15,516	15,593	15,631	15,680	15,705	15,704	15,826	15,851	15,895

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

P=preliminary.

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

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
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	37.2
1980				
January.....	60.2	57.6	42.7	33.4
February.....	54.9	52.6	38.1	34.0p
March.....	45.9	36.6	32.0	36.3p
April.....	28.2	30.8	22.4	
May.....	29.1	24.1	24.7p	
June.....	22.7	22.7	27.0p	
July.....	34.0	35.2p		
August.....	63.4p	52.0p		
September.....	62.8p			
October.....				
November.....				
December.....				

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

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
1 ALABAMA .....	1,363.8	1,326.7	1,329.1	17.0	17.1	17.1	78.8	68.9	69.4	375.7	340.6	357.0
2 Birmingham .....	357.9	355.8	355.2	9.9	10.0	10.0	23.4	22.1	22.2	69.8	60.4	61.3
3 Huntsville .....	120.7	117.8	120.1	(1)	(1)	(1)	5.1	4.5	4.6	30.4	32.3	35.0
4 Mobile .....	147.2	144.9	143.8	(1)	(1)	(1)	10.6	9.5	9.6	29.2	26.0	26.7
5 Montgomery .....	109.0	106.5	105.3	(1)	(1)	(1)	9.5	7.4	7.4	16.6	16.1	15.9
6 Tuscaloosa .....	49.8	47.8	49.1	1.4	1.9	2.0	3.0	2.8	2.7	9.4	7.6	8.5
7 ALASKA .....	181.4	182.7	184.6	5.8	6.7	6.9	13.1	11.3	12.3	19.4	21.7	20.8
8 ARIZONA .....	950.4	964.8	958.0	22.3	13.8	12.1	84.6	72.1	70.2	143.5	149.2	148.9
9 Phoenix .....	595.0	615.6	611.5	.2	.3	.4	54.7	47.7	46.6	106.0	110.9	110.5
10 Tucson .....	170.7	173.4	173.3	7.0	6.0	4.8	15.5	13.1	12.8	18.3	20.9	21.1
11 ARKANSAS .....	750.2	742.1	748.0	5.0	4.7	4.8	45.0	39.6	39.1	217.1	205.2	206.4
12 Fayetteville—Springdale .....	64.5	63.7	63.8	(1)	(1)	(1)	3.6	3.3	3.2	19.8	18.9	18.7
13 Fort Smith .....	66.7	65.0	65.1	.7	.9	.9	3.3	3.0	2.9	23.8	20.3	20.7
14 Little Rock—North Little Rock .....	181.5	181.1	182.2	(1)	(1)	(1)	10.3	9.5	9.4	31.6	29.8	30.1
15 Pine Bluff .....	32.1	31.5	31.5	(1)	(1)	(1)	3.3	3.1	3.0	6.2	5.9	6.0
16 CALIFORNIA .....	9,637.0	9,673.0	9,684.8	40.2	41.1	41.3	482.5	375.5	413.9	2,049.3	1,967.5	1,997.4
17 Anaheim—Santa Ana—Garden Grove .....	804.9	821.3	825.9	2.3	2.2	2.2	52.2	44.1	45.4	218.0	220.1	219.6
18 Bakersfield .....	126.2	128.6	127.1	10.8	11.0	11.0	7.0	6.5	6.5	9.6	9.7	9.8
19 Fresno .....	181.0	184.1	185.0	.9	.9	.9	13.5	13.1	13.2	25.4	24.6	25.4
20 Los Angeles—Long Beach .....	3,575.1	3,606.1	3,578.2	12.1	12.4	12.5	122.2	104.2	113.5	928.6	905.1	904.3
21 Modesto .....	96.5	86.7	94.5	.1	.1	.1	7.1	6.1	6.2	25.1	18.7	26.2
22 Oxnard—Simi Valley—Ventura .....	142.4	144.1	146.1	2.4	2.4	2.4	8.8	6.5	8.1	23.4	23.5	24.0
23 Riverside—San Bernardino—Ontario .....	424.5	432.7	432.4	2.6	2.5	1.7	30.9	27.9	30.2	68.0	66.3	65.9
24 Sacramento .....	392.0	396.4	401.3	.4	.4	.4	25.5	22.1	22.7	31.5	27.4	31.4
25 Salinas—Seaside—Monterey .....	87.1	85.2	86.1	.6	.7	.7	3.8	2.9	3.0	10.1	8.6	9.0
26 San Diego .....	629.9	624.7	639.5	.7	.7	.7	41.3	22.4	37.0	102.9	103.0	103.2
27 San Francisco—Oakland .....	1,518.5	1,520.3	1,511.1	2.4	2.6	2.6	75.9	71.9	71.3	207.0	200.2	199.8
28 San Jose .....	641.4	654.4	663.2	.2	.2	.2	27.3	24.7	25.6	239.7	239.5	247.0
29 Santa Barbara—Santa Maria—Lompoc .....	119.0	119.7	119.6	1.2	1.2	1.2	5.4	5.1	5.3	16.8	15.9	16.1
30 Santa Rosa .....	89.0	88.3	88.3	.5	.4	.4	6.9	5.7	5.8	14.5	14.0	14.4
31 Stockton .....	123.7	118.3	124.4	.1	.1	.1	6.7	6.2	6.3	27.4	20.7	26.7
32 Vallejo—Fairfield—Napa .....	97.9	98.9	98.9	.3	.3	.3	5.4	4.9	5.0	11.3	10.6	11.0
33 COLORADO .....	1,226.0	1,250.3	1,253.9	31.3	34.0	34.2	87.1	82.6	83.7	164.0	182.8	184.6
34 Denver—Boulder .....	780.6	798.0	800.3	16.6	18.3	18.3	51.9	48.1	48.9	125.7	126.4	127.3
35 CONNECTICUT .....	1,398.9	1,395.8	1,386.5	(2)	(2)	(2)	56.6	48.6	49.9	429.8	425.3	417.6
36 Bridgeport .....	165.4	167.2	167.6	(2)	(2)	(2)	6.5	5.1	5.2	65.5	64.2	64.3
37 Hartford .....	384.7	398.1	394.9	(2)	(2)	(2)	14.0	12.4	12.7	92.4	98.4	96.4
38 New Britain .....	59.2	61.2	60.1	(2)	(2)	(2)	2.5	2.4	2.4	26.8	27.6	27.1
39 New Haven—West Haven .....	187.8	190.2	190.6	(2)	(2)	(2)	8.0	6.9	7.0	47.1	42.2	41.8
40 Stamford .....	107.0	108.5	109.0	(2)	(2)	(2)	5.2	4.6	4.9	31.2	31.6	31.4
41 Waterbury .....	90.1	87.3	87.9	(2)	(2)	(2)	3.8	3.2	3.3	34.2	30.9	30.7
42 DELAWARE .....	257.1	257.3	256.9	(1)	(1)	(1)	16.9	15.2	15.2	69.1	67.6	68.3
43 Wilmington .....	221.1	218.6	217.8	(1)	(1)	(1)	15.9	13.9	13.8	61.5	60.2	60.2
44 DISTRICT OF COLUMBIA .....	634.2	636.4	633.2	(1)	(1)	(1)	15.3	14.7	14.8	15.5	15.6	15.7
45 Washington SMSA .....	1,520.7	1,544.8	1,544.0	(1)	(1)	(1)	84.7	74.2	75.2	54.4	55.0	55.0
46 FLORIDA .....	3,342.7	3,473.6	3,471.8	10.0	10.2	10.2	255.0	273.5	275.7	432.7	427.5	431.8
47 Bradenton .....	41.2	40.7	40.5	-	-	-	3.7	3.0	2.9	6.5	7.1	6.9
48 Daytona Beach .....	73.7	77.5	76.1	(1)	(1)	(1)	4.7	4.8	5.0	8.0	8.0	8.2
49 Fort Lauderdale—Hollywood .....	319.1	328.6	328.4	(1)	(1)	(1)	28.0	29.7	29.7	39.5	40.5	40.4
50 Fort Myers—Cape Coral .....	59.0	59.8	60.0	(1)	(1)	(1)	8.1	8.2	8.4	3.9	3.8	3.8
51 Gainesville .....	60.7	65.5	61.5	(1)	(1)	(1)	3.4	4.3	4.3	3.9	3.6	3.6
52 Jacksonville .....	283.1	282.1	282.0	(1)	(1)	(1)	16.1	15.9	15.5	35.0	33.3	33.5
53 Lakeland—Winter Haven .....	109.2	105.3	109.5	5.7	5.8	5.7	9.1	8.8	9.1	18.5	18.9	19.1
54 Melbourne—Titusville—Cocoa .....	97.9	102.0	101.6	(1)	(1)	(1)	6.8	6.3	6.1	20.2	21.6	21.5
55 Miami .....	699.3	708.1	708.2	(1)	(1)	(1)	39.3	41.2	41.7	100.4	98.6	99.0
56 Orlando .....	266.0	281.9	276.4	(1)	(1)	(1)	19.8	19.8	19.7	35.1	34.9	34.7
57 Panama City .....	33.4	33.7	33.8	(1)	(1)	(1)	2.2	2.2	2.2	2.9	3.1	3.2
58 Pensacola .....	95.3	95.1	95.9	(1)	(1)	(1)	6.6	6.1	6.3	13.3	12.6	12.6
59 Sarasota .....	65.9	69.3	68.8	(1)	(1)	(1)	7.1	6.5	6.5	6.2	5.9	5.8
60 Tallahassee .....	69.1	71.2	71.2	(1)	(1)	(1)	3.5	3.5	3.5	2.5	2.5	2.5
61 Tampa—St. Petersburg .....	509.2	515.8	516.7	(1)	(1)	(1)	36.1	34.5	35.1	72.2	70.2	71.1
62 West Palm Beach—Boca Raton .....	189.8	197.1	199.5	(1)	(1)	(1)	16.3	17.8	18.1	26.3	26.9	27.5

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	
72.7	72.0	71.3	276.2	274.7	273.9	59.1	57.9	57.8	200.2	200.6	200.8	284.1	295.3	288.8	1
28.9	29.3	29.3	86.3	87.9	88.2	23.0	23.2	23.2	64.4	67.6	67.6	51.8	55.3	55.5	2
2.7	2.7	2.7	22.4	22.4	22.9	3.4	3.4	3.4	17.5	17.9	17.8	33.2	34.6	34.1	3
11.0	11.3	10.7	36.5	36.7	36.0	7.1	7.5	7.5	28.2	28.1	28.0	24.6	25.8	24.7	4
4.8	4.6	4.5	23.9	23.7	23.0	6.2	6.0	6.0	19.4	19.4	19.4	28.6	29.3	28.5	5
1.9	1.7	1.7	9.6	9.5	9.9	1.7	1.8	1.8	6.1	6.0	6.1	16.7	16.5	16.8	6
18.2	17.7	17.9	31.0	30.2	30.9	8.9	8.6	8.5	32.2	33.0	33.5	52.8	53.5	54.2	7
48.6	45.2	49.0	229.6	237.4	237.1	54.9	56.5	56.9	188.0	198.2	196.7	178.9	189.0	187.1	8
28.9	29.4	29.3	152.6	158.7	158.0	42.0	43.9	43.9	119.6	127.0	126.1	91.0	97.7	96.1	9
8.8	8.6	8.6	38.4	39.4	39.4	8.1	8.7	8.2	35.3	37.4	37.5	39.3	39.8	40.9	10
44.5	43.2	43.2	165.2	163.7	165.9	31.8	32.7	32.8	117.9	117.8	117.9	128.3	135.2	139.3	11
3.8	3.9	3.9	16.1	16.3	16.9	2.3	2.4	2.4	8.5	8.7	8.8	10.4	10.2	10.5	12
3.7	3.7	3.0	14.8	15.0	15.0	2.5	2.6	2.6	11.2	11.4	11.4	6.7	8.1	8.0	13
14.5	13.7	13.8	41.9	41.6	41.9	12.5	12.6	12.6	34.6	35.5	35.6	36.1	38.4	38.8	14
4.0	3.8	3.8	6.5	6.3	6.9	1.3	1.4	1.4	5.0	4.9	4.9	5.8	6.1	6.0	15
539.9	550.7	553.0	2,224.2	2,254.5	2,262.1	597.5	613.4	614.7	2,086.5	2,168.0	2,123.6	1,616.9	1,702.3	1,678.2	16
26.5	27.3	27.4	197.6	206.6	207.2	53.3	55.4	55.8	165.8	170.5	170.6	89.2	95.1	97.7	17
7.7	7.9	7.8	32.6	33.3	33.0	4.6	4.5	4.5	22.6	22.8	22.9	31.3	32.9	31.7	18
10.8	11.2	11.3	48.9	49.8	50.0	10.7	11.1	11.1	35.1	36.4	36.4	35.7	37.3	36.7	19
201.5	205.3	204.9	813.6	827.6	828.0	225.0	225.9	226.3	808.0	843.6	817.0	464.1	482.0	471.1	20
4.0	3.9	4.0	21.4	22.2	22.0	3.4	3.5	3.5	16.1	16.6	16.6	15.3	15.6	15.3	21
6.1	5.9	6.0	34.7	34.8	34.0	6.8	6.9	6.9	28.6	29.2	29.2	31.6	34.9	34.7	22
23.7	24.5	24.6	102.5	107.2	107.2	18.8	19.3	19.3	85.6	89.9	89.6	92.4	95.1	93.9	23
21.9	22.1	22.3	93.9	97.3	97.4	20.8	21.5	21.7	71.0	75.7	76.0	127.0	129.9	129.4	24
4.9	5.1	5.1	23.2	22.6	22.9	4.4	4.4	4.4	19.7	19.3	19.6	20.4	21.6	21.4	25
28.4	28.2	28.2	145.7	147.2	147.9	37.4	37.6	37.9	145.6	149.3	150.8	127.9	136.3	134.2	26
126.2	127.0	127.0	350.6	354.3	354.0	142.3	142.7	142.7	335.4	338.2	332.2	278.7	283.4	280.7	27
21.5	21.5	21.9	119.2	123.4	123.9	26.2	26.7	26.9	141.2	147.2	148.1	70.1	71.2	70.0	28
4.8	4.7	4.7	30.6	30.9	31.0	5.5	5.4	5.4	31.7	33.0	32.8	23.0	23.5	23.1	29
4.5	4.6	4.6	21.7	22.3	22.2	5.5	5.5	5.5	17.5	16.9	17.3	17.9	16.9	18.1	30
8.9	9.3	9.3	27.3	28.5	28.9	4.9	5.0	5.0	22.9	23.5	23.6	25.5	25.0	24.9	31
4.7	4.8	4.8	20.7	21.2	21.2	3.4	3.4	3.4	18.4	18.5	18.9	33.7	34.8	34.3	32
77.9	77.5	77.2	302.9	306.4	306.9	76.1	78.4	78.9	746.9	256.0	257.7	220.2	232.7	231.0	33
55.3	54.9	54.5	192.1	194.1	194.1	54.6	56.8	57.2	162.7	169.5	170.6	121.6	130.0	129.4	34
60.0	59.8	59.9	296.1	297.9	297.7	101.2	103.6	103.7	281.0	281.9	281.7	174.3	178.7	176.0	35
6.2	6.2	6.2	33.7	35.5	35.4	7.1	7.1	7.1	31.2	33.4	33.7	15.2	15.7	15.7	36
14.7	15.4	15.3	79.7	83.2	82.8	17.8	18.5	18.5	72.4	73.8	72.9	53.8	53.4	53.1	37
1.4	1.5	1.4	10.3	10.6	10.6	1.8	1.9	1.9	9.7	10.3	10.3	5.8	6.9	6.4	38
15.6	15.6	15.6	39.9	41.3	41.4	10.0	10.7	10.7	44.9	48.9	49.8	22.2	24.6	24.3	39
3.8	4.0	3.9	24.2	24.9	24.4	7.5	7.3	7.3	26.8	27.2	27.4	8.6	8.9	9.2	40
3.1	3.0	3.1	15.5	15.6	15.0	3.4	3.6	3.6	19.3	19.9	20.6	10.4	11.1	11.0	41
12.7	12.5	12.4	56.2	56.8	56.4	12.0	12.0	12.0	47.7	48.1	47.3	42.5	45.2	44.9	42
12.2	12.0	11.9	45.1	43.3	43.9	11.0	11.0	11.0	41.8	42.3	42.1	33.6	36.1	35.7	43
26.3	24.9	25.1	65.6	65.2	65.9	35.0	34.9	35.2	169.6	172.9	173.3	306.9	308.2	303.6	44
67.7	67.1	67.1	281.6	283.0	284.2	91.0	92.9	93.1	389.1	400.8	401.2	552.2	571.8	568.2	45
210.1	215.3	215.3	886.3	923.6	931.8	235.8	244.5	244.3	737.5	777.4	773.8	575.3	601.6	588.9	46
1.3	1.4	1.4	11.9	12.1	12.4	2.5	2.8	2.8	8.0	8.2	8.1	7.3	6.1	6.0	47
3.1	3.3	3.3	20.7	21.3	20.9	4.3	4.2	4.4	20.2	22.3	21.1	12.7	13.5	13.3	48
16.2	16.1	16.1	89.0	87.4	87.2	26.9	27.3	27.1	77.5	79.0	78.6	42.0	48.6	49.3	49
3.6	3.9	3.9	16.9	16.3	16.4	5.3	5.7	5.7	11.5	12.0	11.9	9.7	9.9	9.9	50
1.6	1.7	1.7	13.8	13.8	14.3	2.7	2.8	2.9	10.3	10.7	10.8	25.0	28.6	23.9	51
23.6	23.5	23.5	73.3	72.7	72.0	27.6	27.4	27.4	57.5	58.9	59.0	50.0	50.4	49.9	52
4.7	5.0	4.9	25.6	25.9	25.4	6.0	6.3	6.2	21.6	22.5	22.4	17.0	16.5	16.7	53
4.5	4.7	4.6	20.8	22.4	22.9	3.9	4.1	4.2	22.9	23.8	23.8	18.8	19.1	19.1	54
69.7	70.6	70.3	182.0	181.4	181.2	49.8	51.8	51.6	163.4	170.6	169.8	94.7	95.9	94.6	55
13.7	13.7	13.8	71.7	74.0	72.2	17.7	19.4	19.6	71.1	78.7	77.9	36.9	41.4	33.4	56
1.8	1.6	1.8	9.4	8.7	8.9	1.8	2.0	2.0	6.4	6.7	6.7	8.9	9.4	9.4	57
5.4	5.9	6.3	22.3	21.3	21.2	4.5	4.4	4.4	19.4	20.7	21.0	23.8	24.1	24.1	58
2.8	2.9	2.9	18.8	19.3	19.0	5.6	5.6	5.6	16.1	18.1	17.9	9.3	10.5	10.5	59
2.3	2.4	2.4	15.0	14.6	14.7	3.0	3.1	3.0	11.9	12.2	12.2	30.9	32.9	32.9	60
28.9	29.1	29.2	140.0	141.0	141.2	56.5	37.7	37.7	119.3	125.4	125.4	75.7	77.9	77.0	61
8.3	8.6	8.0	47.3	50.0	51.4	15.7	16.1	16.2	44.5	47.2	47.8	29.4	29.9	30.1	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		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
<b>1 GEORGIA</b> .....	2,111.8	2,121.3	2,127.7	7.8	7.6	7.5	98.9	100.3	99.8	525.6	503.0	503.0
2 Albany .....	44.1	46.3	46.0	(1)	(1)	(1)	4.1	3.9	4.1	11.5	13.6	10.5
3 Atlanta .....	925.3	925.3	927.6	(1)	(1)	(1)	41.7	39.9	39.6	138.4	137.5	136.0
4 Augusta .....	120.5	121.3	121.0	(1)	(1)	(1)	6.6	6.1	6.2	36.4	35.8	35.7
5 Columbus .....	83.7	82.5	82.2	(1)	(1)	(1)	4.3	4.2	4.0	21.8	21.4	21.1
6 Macon .....	90.1	95.4	95.2	(1)	(1)	(1)	4.5	4.2	4.3	16.5	15.6	15.5
7 Savannah .....	85.8	83.4	83.5	(1)	(1)	(1)	4.4	4.2	4.4	16.2	16.1	16.4
<b>8 HAWAII</b> .....	405.1	415.9	413.2	(1)	(1)	(1)	23.1	23.6	22.9	25.9	26.5	24.9
9 Honolulu .....	332.9	342.8	340.4	(1)	(1)	(1)	18.3	18.4	17.9	19.6	19.2	17.8
<b>10 IDAHO</b> .....	341.0	327.0	327.7	4.5	4.2	4.2	21.1	18.0	18.5	60.4	54.4	55.1
11 Boise City .....	84.5	77.1	(*)	(1)	(1)	(*)	6.5	5.3	(*)	10.5	8.4	(*)
<b>12 ILLINOIS</b> .....	4,935.8	4,821.6	4,832.3	31.1	29.4	29.4	196.7	189.8	189.1	1,287.6	1,178.9	1,131.0
13 Bloomington—Normal .....	43.2	46.7	46.5	(2)	(2)	(2)	1.8	1.5	1.4	7.8	7.4	7.2
14 Champaign—Urbana—Rantoul .....	67.9	67.2	66.5	(2)	(2)	(2)	2.6	2.3	2.3	7.9	7.6	7.6
15 Chicago—Gary .....	3,527.3	3,483.8	(*)	5.1	5.2	(*)	141.2	136.0	(*)	955.6	901.7	(*)
16 Chicago SMSA <sup>2</sup> .....	3,255.1	3,212.1	3,226.2	5.0	5.1	5.0	120.2	119.3	120.0	850.7	807.5	812.8
17 Davenport—Rock Island—Moline .....	166.5	161.5	160.1	(2)	(2)	(2)	8.0	7.6	7.5	51.4	47.4	45.9
18 Decatur .....	54.5	53.7	53.7	(2)	(2)	(2)	3.0	2.4	2.4	20.0	19.3	19.3
19 Kankakee .....	35.7	34.5	34.9	(2)	(2)	(2)	1.4	1.4	1.4	10.1	9.4	9.8
20 Peoria .....	156.1	150.6	151.6	(2)	(2)	(2)	8.5	7.9	7.7	52.2	49.0	50.1
21 Rockford .....	124.3	114.2	113.8	(2)	(2)	(2)	4.2	4.0	3.8	57.6	48.7	48.6
22 Springfield .....	89.1	86.4	90.9	(2)	(2)	(2)	3.1	3.6	3.5	6.7	5.8	5.9
<b>23 INDIANA</b> .....	2,274.7	2,195.7	2,199.5	11.0	11.0	10.8	119.3	113.5	115.8	737.0	658.1	665.4
24 Anderson .....	52.4	43.5	43.4	(1)	(1)	(1)	1.6	1.1	1.1	23.6	17.3	17.7
25 Elkhart .....	77.9	70.7	71.4	-	-	-	2.0	2.4	2.4	41.8	36.0	36.8
28 Evansville .....	132.1	126.1	126.6	3.1	2.6	2.6	9.0	7.0	6.9	38.3	35.7	36.4
27 Fort Wayne .....	185.9	176.6	175.5	(1)	(1)	(1)	9.3	8.5	8.6	62.9	55.6	54.0
28 Gary—Hammond—East Chicago .....	272.2	253.1	250.7	(1)	(1)	(1)	21.0	18.7	18.5	104.9	89.6	87.7
29 Indianapolis .....	537.5	534.2	538.3	(1)	(1)	(1)	28.0	26.5	26.6	130.0	119.4	122.3
30 Lafayette—West Lafayette .....	55.3	54.4	53.6	(1)	(1)	(1)	2.7	2.6	2.6	12.5	11.3	11.3
31 Muncie .....	48.6	48.1	48.1	(1)	(1)	(1)	2.3	2.0	2.1	13.5	12.6	12.8
32 South Bend .....	115.4	109.5	110.3	(1)	(1)	(1)	5.3	5.1	5.1	35.1	30.6	31.0
33 Terre Haute .....	67.0	63.3	63.2	1.4	1.5	1.4	4.6	3.8	3.8	17.3	15.5	15.9
<b>34 IOWA</b> .....	1,119.5	1,085.7	1,074.2	2.7	2.5	2.5	67.2	52.3	52.8	259.7	235.8	224.9
35 Cedar Rapids .....	84.6	83.1	82.7	(1)	(1)	(1)	5.0	3.8	3.9	28.8	26.5	26.6
36 Des Moines .....	181.9	178.3	176.8	(1)	(1)	(1)	9.0	7.7	7.7	26.4	24.8	24.5
37 Dubuque .....	45.3	42.9	42.7	(1)	(1)	(1)	2.1	1.7	1.7	17.2	15.2	15.1
38 Sioux City .....	48.9	49.3	48.5	(1)	(1)	(1)	2.9	2.5	2.7	9.0	8.4	8.5
39 Waterloo—Cedar Falls .....	67.3	66.4	57.1	(1)	(1)	(1)	3.5	3.6	3.2	24.1	23.1	14.5
<b>40 KANSAS</b> .....	941.4	937.8	933.9	14.5	15.3	15.6	57.2	51.5	51.1	196.6	132.2	175.8
41 Lawrence .....	26.4	27.0	26.8	(2)	(2)	(2)	1.5	1.3	1.2	4.8	4.9	4.6
42 Topeka .....	87.0	86.5	85.6	.2	.2	.2	4.1	4.3	4.1	11.6	9.7	9.1
43 Wichita .....	205.8	205.6	204.6	2.5	2.9	2.9	11.5	10.3	10.4	66.6	62.7	63.1
<b>44 KENTUCKY</b> .....	1,242.8	1,189.5	1,192.3	55.3	52.4	52.3	79.0	64.1	64.1	291.6	265.5	265.0
45 Lexington—Fayette .....	149.9	143.7	144.8	(1)	(1)	(1)	10.3	10.7	10.8	31.0	27.9	28.6
46 Louisville .....	406.1	393.2	392.2	(1)	(1)	(1)	21.6	19.4	19.4	110.3	98.0	96.2
47 Owensboro .....	30.1	30.0	30.2	.8	.8	.8	2.4	2.4	2.5	6.6	6.4	6.4
<b>48 LOUISIANA</b> .....	1,495.3	1,540.3	1,543.2	75.7	82.5	83.0	127.3	139.3	139.9	215.9	208.8	209.3
49 Alexandria .....	49.8	50.0	50.3	(1)	(1)	(1)	3.2	3.0	3.1	6.2	5.9	5.8
50 Baton Rouge .....	188.6	191.2	190.8	.9	.9	.9	23.7	24.5	23.5	26.0	26.0	26.2
51 Lafayette .....	72.9	78.1	78.8	13.1	14.5	14.7	6.4	7.5	7.9	5.7	3.8	3.9
52 Lake Charles .....	64.1	63.8	63.2	1.8	1.9	1.9	8.5	8.4	8.1	12.8	13.3	13.2
53 Monroe .....	49.8	43.1	48.2	.5	.5	.5	4.1	3.8	3.8	6.4	7.5	7.5
54 New Orleans .....	400.0	493.0	494.2	16.2	17.3	17.3	30.5	31.0	31.3	54.1	53.8	53.4
55 Shreveport .....	146.6	145.2	145.5	4.8	5.8	5.9	11.5	8.0	8.1	28.2	26.5	26.7
<b>56 MAINE</b> .....	453.7	414.3	427.5	(1)	(1)	(1)	21.6	21.9	21.6	117.8	100.0	115.9
57 Lewiston—Auburn .....	35.6	33.7	35.9	(1)	(1)	(1)	1.8	1.7	1.6	12.0	10.4	12.3
58 Portland .....	92.2	91.7	93.1	(1)	(1)	(1)	4.3	4.1	4.0	18.4	16.2	17.9
<b>59 MARYLAND</b> .....	1,610.1	1,640.7	1,625.9	(1)	(1)	(1)	109.8	99.2	99.9	240.8	227.1	223.1
60 Baltimore .....	479.5	900.2	885.1	(1)	(1)	(1)	55.1	52.3	52.7	159.2	149.6	150.2

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			
AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	
137.5	139.5	139.7	494.1	499.3	499.7	108.2	110.5	110.5	330.4	342.8	342.6	409.3	418.4	419.8	1
2.1	2.2	2.2	9.5	10.2	10.1	2.0	2.3	2.4	6.3	6.7	6.8	9.6	10.3	10.0	2
85.5	86.0	86.4	255.8	257.3	257.4	64.8	65.5	65.2	187.7	192.7	191.2	151.3	150.4	151.7	3
4.4	4.5	4.5	22.4	22.7	22.3	4.7	4.7	4.7	15.9	16.4	16.3	30.3	31.1	31.0	4
3.6	3.5	3.6	17.5	16.4	16.3	5.2	5.3	5.3	11.7	11.5	11.4	19.6	20.2	20.2	5
4.9	4.9	4.8	19.9	19.6	19.7	5.9	5.6	5.6	16.0	16.4	16.3	28.5	29.2	28.9	6
8.8	9.1	8.7	19.9	19.7	19.4	4.1	4.1	4.2	15.1	15.2	15.6	17.2	15.0	14.8	7
30.5	31.0	30.8	105.4	107.6	107.1	30.5	31.7	31.8	98.7	103.8	103.7	89.0	91.7	92.0	8
25.5	25.7	25.0	87.9	89.8	89.7	26.5	27.5	27.7	80.2	84.5	84.3	74.9	77.7	77.4	9
20.4	20.1	20.2	82.9	80.6	80.3	23.2	23.1	23.0	61.6	60.3	60.5	66.9	66.3	65.7	10
5.4	5.1	(*)	21.0	19.3	(*)	9.2	7.9	(*)	14.6	13.4	(*)	17.4	16.7	(*)	11
290.4	288.3	285.3	1,140.4	1,114.1	1,116.2	294.7	304.7	304.4	934.8	939.2	946.0	760.1	777.2	780.9	12
3.1	3.0	3.0	11.3	10.8	11.0	7.8	7.5	7.5	8.4	8.1	8.1	8.0	8.4	8.3	13
2.6	2.8	2.8	17.0	17.7	17.0	2.3	2.2	2.2	10.2	10.3	10.3	25.3	24.3	23.9	14
219.8	209.1	(*)	788.9	774.9	(*)	233.5	234.0	(*)	689.2	693.3	(*)	494.1	527.7	(*)	15
203.3	196.3	196.1	733.3	719.2	721.4	223.8	224.8	223.9	654.3	649.7	649.7	495.6	495.6	497.6	16
8.6	7.0	6.9	40.8	40.5	40.0	7.2	7.1	7.1	25.4	24.9	25.2	26.1	27.0	26.9	17
5.0	5.2	5.2	10.4	10.8	10.0	2.9	2.8	2.8	8.2	8.6	8.6	4.9	4.5	4.5	18
1.6	1.6	1.6	7.9	7.1	7.1	1.1	1.2	1.2	6.5	6.4	6.4	7.1	7.4	7.4	19
8.3	8.2	8.1	36.6	35.1	35.2	7.0	7.3	7.3	27.1	26.4	26.4	16.4	16.7	16.8	20
4.9	4.7	4.6	25.6	24.4	24.4	4.3	4.3	4.3	16.6	16.4	16.7	11.1	11.7	11.4	21
5.4	5.4	5.4	21.4	19.2	21.3	6.7	6.8	6.8	17.8	17.0	18.6	27.8	28.5	29.3	22
113.2	104.5	104.6	502.9	488.4	490.2	102.3	102.8	102.3	337.5	347.9	349.5	351.5	369.5	360.8	23
1.6	1.5	1.4	10.6	9.5	9.3	1.7	1.6	1.6	7.1	6.7	6.8	6.2	5.8	5.3	24
2.4	2.0	2.0	15.1	14.4	14.4	2.2	2.1	2.1	9.0	8.8	8.8	4.8	5.0	4.9	25
7.0	6.8	6.8	32.8	31.8	31.0	4.6	4.5	4.5	24.9	24.9	24.8	12.4	12.8	12.8	26
11.8	11.5	11.5	45.0	43.6	43.0	10.6	10.6	10.6	28.8	28.9	29.1	17.5	17.9	17.9	27
16.5	12.3	12.1	55.6	54.7	54.0	9.7	9.5	9.4	34.9	34.8	34.8	29.6	33.5	33.6	28
32.7	32.6	32.7	135.7	137.6	138.0	38.3	39.6	39.6	90.2	93.6	93.8	82.6	84.9	85.3	29
1.6	1.6	1.6	11.8	10.9	11.0	2.8	2.6	2.6	9.2	9.0	9.0	14.7	16.4	15.5	30
2.1	2.0	1.9	12.2	12.1	12.2	1.6	1.6	1.6	7.8	8.2	8.2	9.1	9.6	9.3	31
5.4	4.6	4.5	29.4	28.4	28.8	5.4	5.3	5.3	23.6	23.3	23.4	11.2	12.2	12.2	32
4.1	3.9	3.9	17.0	16.3	16.3	2.2	2.1	2.1	9.6	9.4	9.3	10.8	10.8	10.5	33
59.2	58.0	57.8	286.8	284.5	285.2	58.1	59.6	59.6	203.5	202.2	200.5	186.2	194.6	187.5	34
4.2	3.9	3.9	18.4	19.2	19.1	4.3	4.5	4.5	15.0	15.5	15.4	8.9	9.6	9.4	35
12.3	11.7	11.8	49.0	47.3	47.2	20.4	20.2	20.1	38.6	39.0	39.0	26.4	27.7	26.6	36
1.7	1.6	1.6	9.1	8.8	8.0	1.3	1.2	1.2	10.0	10.2	10.3	4.0	4.1	4.0	37
4.2	4.0	3.9	13.1	13.4	13.4	2.9	2.9	2.9	11.0	11.6	11.4	5.8	6.4	5.8	38
2.7	2.8	2.8	14.2	13.5	13.3	2.1	2.1	2.1	11.0	11.4	11.4	9.6	10.0	9.7	39
66.2	65.2	65.1	226.4	227.1	227.3	46.5	47.0	46.9	165.8	174.4	175.1	166.2	175.1	172.8	40
1.5	1.4	1.3	5.6	5.7	5.3	.9	.9	.9	3.5	3.7	3.7	8.6	9.1	9.1	41
7.5	7.6	7.6	19.4	19.0	19.3	6.1	6.3	6.3	16.9	17.6	17.5	21.2	21.8	21.5	42
10.5	11.1	11.0	45.0	45.1	45.1	9.1	9.2	9.2	38.3	40.1	39.9	22.3	24.2	23.0	43
71.1	68.4	68.5	269.1	258.7	258.4	50.6	51.1	51.2	206.0	212.3	213.7	220.1	217.0	219.1	44
7.6	7.9	8.0	33.7	29.6	30.3	7.2	7.6	7.6	27.2	27.0	26.7	32.9	33.0	32.6	45
25.5	24.1	24.1	91.3	86.7	87.0	23.0	23.4	23.4	75.8	78.3	78.8	58.6	63.4	62.7	46
2.3	2.3	2.3	6.9	6.7	6.7	1.2	1.2	1.2	5.5	5.8	5.9	4.5	4.4	4.4	47
115.7	116.5	116.3	354.0	362.1	362.7	74.0	75.8	75.6	251.2	260.7	261.2	281.0	294.6	295.2	48
2.6	2.5	2.5	11.1	11.1	11.2	2.8	2.9	2.9	10.0	10.3	10.4	13.9	14.3	14.4	49
10.2	10.5	10.6	42.0	44.6	44.9	11.0	11.3	11.3	29.8	30.6	30.7	45.0	42.8	42.7	50
5.1	5.3	5.4	19.4	20.9	20.9	2.4	2.5	2.5	14.4	14.9	14.8	8.4	8.7	8.7	51
3.8	3.9	3.8	14.3	14.2	14.2	2.6	2.7	2.7	8.9	9.1	9.0	11.5	10.3	10.3	52
2.6	2.6	2.6	13.4	12.9	13.4	3.6	3.7	3.6	7.7	7.9	7.9	9.5	9.2	9.2	53
49.5	49.7	49.8	122.5	125.4	125.0	30.2	30.8	30.8	104.1	104.7	105.0	78.9	80.3	80.8	54
10.4	10.7	10.7	35.1	35.9	35.9	7.1	7.4	7.6	26.1	26.7	26.7	23.4	24.2	23.9	55
19.8	19.6	19.8	96.1	94.3	94.4	16.8	17.3	17.2	83.4	84.3	83.6	78.2	76.9	75.3	56
1.1	1.1	1.1	8.5	8.3	8.4	1.6	1.6	1.7	7.4	7.6	7.8	3.2	3.0	3.0	57
5.7	5.6	5.7	25.1	26.7	26.0	7.3	7.6	7.6	19.5	19.9	19.9	11.9	11.6	11.4	58
86.1	85.0	84.5	381.8	387.3	387.4	90.8	94.3	94.3	335.2	348.2	348.4	365.6	399.6	383.6	59
61.2	59.9	59.0	183.3	188.6	188.2	54.3	56.2	56.3	176.6	184.6	185.0	184.8	209.0	193.1	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		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
1 MASSACHUSETTES	2,622.2	2,669.3	2,687.8	(1)	(1)	(1)	84.8	81.4	86.2	670.6	648.5	657.4
2 Boston	1,446.4	1,486.8	1,487.8	(1)	(1)	(1)	45.5	44.7	45.2	288.7	288.1	285.7
3 Brockton	58.9	58.1	58.6	(1)	(1)	(1)	1.8	1.7	1.8	12.8	12.5	13.0
4 Fall River	58.8	57.0	58.1	(1)	(1)	(1)	1.8	1.8	1.8	20.8	19.0	19.9
5 Lawrence—Haverhill	109.7	110.2	110.5	(1)	(1)	(1)	3.5	3.0	3.0	41.6	43.7	44.2
6 Lowell	75.3	75.6	77.6	(1)	(1)	(1)	3.0	3.2	3.2	26.5	27.2	28.6
7 New Bedford	66.7	64.5	64.7	(1)	(1)	(1)	1.8	1.7	1.7	25.9	24.3	25.2
8 Springfield—Chicopee—Holyoke	233.7	225.9	226.1	(1)	(1)	(1)	6.7	6.0	6.3	67.4	64.3	63.7
9 Worcester	163.3	163.3	160.8	(1)	(1)	(1)	5.4	5.4	5.4	49.0	46.2	46.6
10 MICHIGAN	3,347.9	3,355.5	3,381.1	13.7	12.3	11.4	157.1	124.2	125.2	1,070.4	911.7	927.5
11 Ann Arbor	134.0	121.3	130.9	(1)	(1)	(1)	3.4	2.7	2.7	43.2	31.2	39.7
12 Battle Creek	66.2	63.7	64.0	(1)	(1)	(1)	2.3	2.1	2.1	23.5	20.0	20.4
13 Bay City	34.1	32.8	33.1	(1)	(1)	(1)	1.3	1.1	1.1	9.9	8.5	8.7
14 Detroit	1,741.4	1,641.3	1,655.7	1.3	1.3	1.3	67.7	54.5	54.0	530.7	456.3	460.5
15 Flint	189.3	178.3	177.7	(1)	(1)	(1)	6.7	7.0	7.1	72.1	62.8	61.8
16 Grand Rapids	268.7	264.1	265.9	(1)	(1)	(1)	15.9	13.3	13.5	94.1	86.7	88.7
17 Jackson	54.7	49.8	50.1	(1)	(1)	(1)	2.3	1.4	1.3	16.2	13.1	13.4
18 Kalamazoo—Portage	107.1	105.2	105.7	(1)	(1)	(1)	4.9	4.9	4.3	35.5	30.9	31.7
19 Lansing—East Lansing	180.3	187.7	185.2	(1)	(1)	(1)	7.8	7.2	7.4	34.8	39.7	36.2
20 Muskegon—Norton Shores—Musk. Hgts	63.0	58.7	59.0	(1)	(1)	(1)	3.3	2.4	2.3	22.8	17.5	17.8
21 Saginaw	89.7	80.4	81.9	(1)	(1)	(1)	2.8	2.2	2.3	34.6	25.8	27.0
22 MINNESOTA	1,793.1	1,785.2	1,789.8	18.6	16.1	16.5	100.2	88.0	88.4	397.3	373.4	381.4
23 Duluth—Superior	61.6	61.4	61.9	(1)	(1)	(1)	2.5	2.3	2.4	3.2	7.7	7.7
24 Minneapolis—St. Paul	1,000.2	1,083.7	1,084.9	(1)	(1)	(1)	53.3	48.7	47.8	254.6	243.2	246.5
25 Rochester	50.9	50.3	50.8	(2)	(2)	(2)	2.6	2.5	2.6	10.8	10.6	10.6
26 St. Cloud	52.0	51.2	51.1	(1)	(1)	(1)	2.8	2.7	3.0	13.2	11.5	11.7
27 MISSISSIPPI	832.6	812.4	811.9	9.8	10.3	10.3	49.2	45.4	44.3	236.1	212.5	216.6
28 Jackson	144.7	145.2	145.1	1.3	1.4	1.4	8.5	7.7	7.5	19.3	18.5	18.6
29 MISSOURI	1,010.2	1,967.7	1,970.8	8.3	7.4	7.2	104.4	82.4	83.1	456.4	423.9	429.3
30 Kansas City	639.0	613.5	610.6	.6	.6	.6	32.4	25.5	25.7	125.6	116.2	115.6
31 St. Joseph	37.2	36.5	37.0	(2)	(2)	(2)	2.3	2.3	2.1	9.8	8.5	9.2
32 St. Louis	1,002.7	967.3	960.0	3.2	3.1	3.1	49.2	40.1	41.2	249.4	235.1	230.3
33 Springfield	34.1	82.1	80.8	(2)	(2)	(2)	4.4	4.0	3.9	18.6	18.0	16.4
34 MONTANA	293.8	282.2	285.9	7.9	6.1	6.1	18.2	17.1	17.9	28.2	23.5	23.9
35 Billings	49.1	49.3	49.4	(1)	(1)	(1)	3.2	2.7	2.7	4.5	4.6	4.6
36 Great Falls	30.8	25.6	30.0	(1)	(1)	(1)	2.3	2.1	2.2	1.8	1.4	1.4
37 NEBRASKA	632.5	624.8	625.6	1.8	1.6	1.6	38.6	35.1	34.9	99.8	93.2	94.6
38 Lincoln	99.2	58.3	99.5	(2)	(2)	(2)	5.5	5.0	4.9	14.0	13.2	13.3
39 Omaha	265.2	264.2	262.8	(2)	(2)	(2)	13.1	12.0	12.0	37.8	35.5	35.3
40 NEVADA	391.2	400.8	402.9	4.9	5.6	6.2	29.4	25.0	23.8	19.7	19.3	19.4
41 Las Vegas	212.4	218.6	218.9	.5	.7	.7	16.6	12.6	13.6	6.8	7.4	7.4
42 Reno	116.6	117.8	118.9	.8	.9	1.0	8.3	6.5	6.3	6.7	8.0	8.0
43 NEW HAMPSHIRE	388.4	385.6	388.2	.5	.4	.4	23.5	21.2	20.5	116.7	112.7	115.1
44 Manchester	73.5	72.9	73.2	(2)	(2)	(2)	3.9	3.3	3.3	18.7	17.2	17.3
45 Nashua	60.4	62.7	63.7	(2)	(2)	(2)	3.0	2.6	2.5	28.3	29.4	30.2
46 NEW JERSEY	3,082.4	3,077.2	3,081.5	2.8	2.8	2.8	125.0	117.7	118.6	800.3	765.4	766.4
47 Atlantic City	90.4	97.6	100.0	-	-	-	7.6	6.8	6.6	9.3	8.6	8.9
48 Camden	331.5	330.3	328.1	.1	.1	.1	16.2	14.1	13.7	72.0	68.1	68.3
49 Hackensack	395.4	391.0	388.8	(1)	(1)	(1)	15.6	12.7	13.0	114.1	105.9	105.4
50 Jersey City	236.1	227.6	228.7	-	-	-	4.4	4.2	4.2	71.3	65.8	65.6
51 Long Branch—Asbury Park	163.9	164.1	164.4	(1)	(1)	(1)	6.9	5.4	5.4	24.8	24.9	24.7
52 New Bruns.—Perth Amboy—Sayreville	284.7	286.5	283.1	(1)	(1)	(1)	11.6	11.2	11.6	91.3	87.6	85.5
53 Newark	943.8	946.0	941.1	.8	.9	.9	36.4	32.2	32.4	249.0	245.1	240.7
54 Paterson—Clifton—Passaic	190.1	188.3	187.1	(1)	(1)	(1)	7.4	6.2	6.3	69.6	65.5	65.0
55 Trenton	162.5	160.4	161.4	(1)	(1)	(1)	3.5	3.3	3.2	35.8	31.4	32.9
56 Vineland—Millville—Bridgeton	59.8	54.9	55.5	(1)	(1)	(1)	1.8	1.6	1.6	19.6	17.4	18.6
57 NEW MEXICO	465.8	474.3	477.0	27.7	28.7	28.0	39.0	36.8	37.1	35.0	33.9	34.4
58 Albuquerque	148.0	192.4	195.4	(1)	(1)	(1)	17.2	15.9	16.0	10.2	17.7	18.0
59 NEW YORK	1,235.1	1,183.8	1,197.6	6.5	6.3	6.3	229.0	201.7	203.3	1,505.5	1,436.4	1,455.4
60 Albany—Schenectady—Troy	343.8	337.5	340.9	(1)	(1)	(1)	12.9	12.2	12.4	60.8	56.8	57.2
61 Binghamton	117.5	115.9	115.8	(1)	(1)	(1)	4.8	3.6	3.6	43.4	41.8	41.8
62 Buffalo	513.5	505.8	504.4	(1)	(1)	(1)	21.8	21.3	21.4	141.2	129.6	128.6

See footnotes at end of table.



**ESTABLISHMENT DATA**  
**STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	
119.0	121.3	121.6	570.3	590.3	587.0	150.7	152.8	152.2	593.7	662.7	670.9	433.1	412.3	411.9	1
71.0	73.3	73.6	309.8	323.4	323.2	106.5	108.5	108.7	398.0	437.5	441.3	226.9	211.3	210.1	2
4.2	4.5	4.5	15.7	16.2	16.3	2.2	2.2	2.1	9.3	9.3	9.4	12.9	11.7	11.5	3
1.9	1.8	1.8	11.9	11.8	11.9	2.7	2.5	2.5	11.2	11.6	11.7	8.5	8.5	8.5	4
4.5	4.3	4.3	21.6	21.2	21.3	4.0	4.0	4.0	16.5	17.5	16.8	18.0	16.5	16.9	5
3.1	3.2	3.4	15.2	15.2	15.2	2.1	2.0	2.0	11.5	11.6	11.8	13.9	13.2	13.4	6
2.3	2.1	2.1	12.9	13.1	12.5	2.0	2.0	2.0	9.8	10.2	10.2	12.0	11.1	11.0	7
9.1	8.6	8.7	47.2	45.7	45.9	12.9	12.8	12.8	43.8	44.1	44.6	46.6	44.4	44.1	8
6.5	6.6	6.5	35.2	36.0	35.9	9.1	9.2	9.3	31.9	32.5	31.9	26.2	27.4	25.2	9
159.4	152.0	153.0	756.5	745.7	748.3	155.8	157.5	157.5	633.7	643.7	645.6	601.2	608.4	612.1	10
3.9	3.3	3.5	19.9	18.8	19.5	3.6	3.6	3.6	21.2	21.8	21.8	38.8	39.9	40.0	11
2.4	2.4	2.4	11.1	11.4	11.4	3.6	3.6	3.6	11.1	11.8	11.7	12.2	12.4	12.4	12
1.9	2.0	2.0	3.2	3.4	3.3	1.2	1.2	1.3	6.7	7.1	7.1	4.9	4.5	4.6	13
85.9	83.2	83.7	367.9	358.1	360.1	90.6	91.4	91.2	342.3	347.5	348.3	255.0	248.9	256.7	14
7.0	6.8	6.8	40.6	38.8	38.8	6.2	5.8	5.8	30.4	30.8	31.1	26.3	26.3	26.3	15
10.8	10.5	10.5	59.0	60.4	60.9	10.2	10.2	10.2	48.4	50.3	50.7	30.3	32.7	31.4	16
5.1	5.3	5.3	10.9	10.3	10.3	1.5	1.5	1.5	10.3	9.4	9.4	8.4	8.8	8.9	17
4.0	4.3	4.3	21.3	21.4	22.0	3.5	3.5	3.5	21.6	22.9	22.6	16.3	17.3	17.3	18
5.3	5.7	5.7	35.6	35.9	35.9	9.3	9.1	9.3	28.5	27.3	27.7	61.0	63.8	63.0	19
3.1	3.0	3.0	12.0	12.1	12.4	1.7	1.8	1.8	10.0	11.1	11.3	9.9	10.8	10.7	20
4.7	5.0	5.0	17.5	17.4	17.5	3.8	3.9	3.8	14.5	14.9	14.9	11.8	11.2	11.4	21
100.3	99.0	99.2	447.9	451.6	453.1	93.3	97.7	97.7	361.8	376.7	377.5	273.9	282.7	276.1	22
6.7	6.6	6.8	16.4	15.6	15.6	2.3	2.3	2.3	13.1	13.1	13.3	12.5	13.7	13.6	23
64.6	64.5	64.3	264.3	269.7	270.5	68.7	71.4	71.6	230.3	237.1	239.2	143.9	149.2	145.1	24
2.0	2.0	2.0	9.6	9.8	9.7	1.5	1.5	1.5	18.5	18.5	18.5	5.9	5.9	6.0	25
3.4	3.6	3.6	12.7	12.5	12.5	1.8	1.8	1.8	8.5	9.2	9.3	9.7	9.6	9.2	26
41.7	41.8	41.7	163.9	162.1	162.8	33.2	33.7	33.3	116.3	119.1	117.5	182.5	188.1	185.4	27
10.1	10.2	10.2	35.3	35.1	35.1	11.5	11.6	11.5	27.2	27.7	27.8	31.5	33.0	32.9	28
143.9	140.5	141.0	480.9	485.8	487.5	110.2	110.7	110.8	387.6	396.4	397.9	318.5	320.6	314.2	29
55.2	50.4	50.4	160.6	153.8	152.6	44.0	44.4	44.1	131.8	132.6	133.5	88.8	90.0	88.1	30
2.1	2.1	2.1	9.2	8.8	8.9	1.8	1.5	1.9	6.9	7.1	7.0	5.1	5.8	5.8	31
72.6	70.5	70.2	228.2	219.9	218.3	57.6	56.8	56.7	206.6	207.7	207.1	135.9	134.2	132.6	32
6.6	6.7	6.7	24.2	22.5	22.4	3.5	3.4	3.4	17.6	17.0	17.6	9.2	10.5	10.1	33
24.3	23.6	23.6	78.0	74.7	75.4	13.1	13.0	13.0	56.7	58.0	57.9	67.5	66.2	68.7	34
5.0	5.2	5.2	16.4	15.1	16.2	2.3	2.4	2.4	10.3	10.9	10.8	7.4	7.5	7.6	35
2.0	1.9	1.9	10.1	9.7	9.7	2.1	2.1	2.1	6.9	6.9	7.0	5.6	5.5	5.5	36
47.7	45.9	46.9	165.1	164.8	164.7	41.1	43.1	42.8	114.6	119.2	119.6	123.7	120.9	120.5	37
7.5	7.4	7.5	21.9	22.2	22.2	7.2	7.5	7.5	15.9	16.0	16.1	27.2	27.5	28.0	38
25.2	24.8	24.7	69.4	68.4	68.2	24.4	25.5	25.3	57.9	60.4	60.2	37.4	37.6	37.1	39
23.4	24.8	24.9	78.6	82.0	82.7	17.2	17.6	17.9	164.7	174.3	173.7	53.3	54.2	54.3	40
12.5	13.5	13.4	43.5	45.4	45.7	9.5	10.0	10.1	98.4	104.5	103.5	24.6	24.5	24.5	41
8.2	8.6	8.8	25.0	25.9	26.1	6.1	6.1	6.2	45.1	46.8	47.3	14.4	15.0	15.2	42
13.2	13.4	13.5	86.3	87.2	87.5	19.1	20.0	20.1	74.1	73.6	74.6	55.0	57.1	56.5	43
4.8	4.9	4.9	18.5	18.9	18.9	6.3	6.4	6.5	13.6	13.8	14.0	7.7	8.4	8.3	44
1.8	1.9	1.9	11.6	12.2	12.5	1.9	2.0	2.0	8.6	8.8	9.0	5.2	5.8	5.8	45
188.6	182.0	181.4	688.6	685.1	683.3	155.7	158.2	157.8	594.5	617.9	625.2	527.0	548.1	546.0	46
3.8	4.1	4.1	21.8	21.8	22.2	5.2	5.3	5.1	27.7	34.6	36.9	14.9	16.4	16.2	47
15.4	15.0	14.9	66.2	65.1	65.1	16.4	17.0	16.9	65.4	67.7	67.6	59.9	63.2	61.5	48
19.9	19.7	19.6	114.7	114.3	112.8	16.5	17.3	17.3	73.5	76.3	76.6	41.1	44.8	44.1	49
27.2	24.6	24.7	43.7	44.7	44.8	8.1	8.1	8.1	30.7	30.1	30.3	50.8	50.1	51.0	50
6.0	6.0	5.8	40.8	40.5	40.0	8.0	7.8	7.9	43.6	45.2	45.5	33.8	34.3	34.5	51
21.4	22.8	22.9	65.2	64.1	64.2	9.8	10.2	10.2	40.1	42.6	42.6	45.3	48.0	46.1	52
71.4	69.5	69.7	178.4	176.4	175.7	65.0	65.1	64.7	188.1	195.0	194.9	154.6	161.8	162.1	53
6.7	6.3	6.3	40.9	40.0	39.8	9.0	9.1	9.0	30.4	32.7	32.6	26.1	29.0	28.1	54
5.7	5.5	5.5	24.3	23.7	23.7	6.8	6.9	6.9	40.3	42.1	42.0	46.2	47.5	47.2	55
2.9	2.8	2.8	9.5	9.2	9.0	2.0	2.0	2.0	8.7	8.8	8.9	12.3	13.1	12.6	56
27.9	28.0	28.2	106.4	108.4	108.7	21.8	22.5	22.6	97.7	95.9	95.8	115.3	120.1	122.2	57
11.4	11.7	11.7	47.7	48.4	48.7	11.1	11.5	11.5	42.9	45.3	45.6	39.5	41.9	43.9	58
433.2	433.3	433.6	1,474.2	1,469.1	1,464.3	610.4	621.5	621.0	1,657.6	1,697.1	1,698.8	1,318.7	1,318.3	1,314.8	59
16.0	15.7	15.7	70.7	69.0	70.1	15.7	16.0	16.0	70.4	72.2	74.0	97.2	95.6	95.5	60
4.8	4.7	4.7	21.3	21.4	21.0	3.9	4.1	4.1	18.2	18.8	18.8	21.0	21.4	21.2	61
28.7	28.2	27.9	116.5	116.3	116.7	22.3	22.8	22.8	97.1	99.4	99.8	85.9	88.2	87.3	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		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
<b>NEW YORK—Continued</b>												
1 Elmira .....	37.7	36.7	37.3	(1)	(1)	(1)	1.5	1.3	1.2	11.4	11.0	11.7
2 Monroe County .....	337.4	333.9	334.5	(1)	(1)	(1)	11.7	9.7	9.8	125.7	134.4	135.6
3 Nassau—Suffolk <sup>2</sup> .....	658.3	909.4	906.6	(1)	(1)	(1)	38.1	35.1	35.0	164.7	163.2	164.2
4 New York—Northeastern New Jersey <sup>3</sup> .....	(*)	6,690.5	(*)	(*)	(*)	(*)	(*)	189.6	(*)	(*)	1,521.5	(*)
5 New York—Nassau—Suffolk <sup>4</sup> .....	4,644.8	4,644.7	4,652.2	1.7	1.7	1.7	130.0	123.8	124.5	783.2	750.2	763.8
6 New York SMSA <sup>5</sup> .....	3,746.5	3,735.3	3,745.6	1.5	1.5	1.5	92.4	88.6	88.9	618.4	567.0	599.6
7 New York City <sup>6</sup> .....	3,297.0	3,282.5	3,292.9	1.2	1.2	1.2	72.4	71.4	70.8	524.6	493.2	505.7
8 Poughkeepsie .....	98.3	98.4	98.3	(1)	(1)	(1)	3.1	2.5	2.8	33.4	32.7	32.7
9 Rochester .....	417.2	405.4	411.5	(1)	(1)	(1)	14.6	12.0	12.2	159.0	155.3	157.6
10 Rockland County <sup>7</sup> .....	62.8	32.3	82.7	(1)	(1)	(1)	2.9	2.6	2.7	15.9	15.7	15.7
11 Syracuse .....	264.6	258.0	258.3	(1)	(1)	(1)	12.8	8.7	8.6	62.4	57.6	53.5
12 Utica—Rome .....	113.3	116.2	116.5	(1)	(1)	(1)	3.8	3.2	3.2	32.6	30.4	30.5
13 Westchester County <sup>8</sup> .....	354.1	356.2	356.6	(1)	(1)	(1)	16.2	13.9	14.6	76.7	76.8	76.8
14 <b>NORTH CAROLINA</b> .....	2,370.3	2,364.4	2,385.5	5.0	5.0	4.9	132.6	126.3	127.1	826.0	795.9	808.8
15 Asheville .....	73.9	72.5	71.7	(1)	(1)	(1)	3.4	3.2	3.1	22.2	21.3	21.3
16 Charlotte—Gastonia .....	322.3	320.7	322.4	(1)	(1)	(1)	18.4	17.6	18.0	33.8	85.4	96.2
17 Greensboro—Winston-Salem—High Pt. .....	304.6	382.0	381.6	(1)	(1)	(1)	17.5	16.3	16.2	152.3	149.1	149.0
18 Raleigh—Durham .....	261.5	263.0	263.4	(1)	(1)	(1)	15.9	14.0	13.6	44.4	43.9	43.7
19 <b>NORTH DAKOTA</b> .....	249.9	248.0	248.6	6.0	7.5	7.8	22.5	17.3	17.2	17.0	15.4	15.4
20 Fargo—Moorhead .....	62.0	61.0	60.9	(2)	(2)	(2)	5.3	4.0	4.0	5.2	4.7	4.7
21 <b>OHIO</b> .....	4,435.0	4,365.2	4,362.3	37.5	31.2	31.0	306.6	178.6	180.5	1,356.9	1,217.0	1,226.2
22 Akron .....	203.1	264.9	264.6	(*)	(*)	(*)	10.0	9.1	9.1	81.9	75.6	76.4
23 Canton .....	164.3	156.6	158.3	(*)	(*)	(*)	7.3	6.8	6.6	60.2	51.1	53.7
24 Cincinnati .....	606.6	605.3	603.9	(*)	(*)	(*)	30.8	28.1	28.5	170.4	160.7	160.7
25 Cleveland .....	923.8	908.7	906.2	(*)	(*)	(*)	37.7	34.2	34.6	267.9	245.1	244.0
26 Columbus .....	505.6	503.6	500.4	(*)	(*)	(*)	23.8	20.8	20.9	100.4	92.2	89.3
27 Dayton .....	356.6	352.9	353.7	(*)	(*)	(*)	15.8	14.5	14.7	103.0	96.2	96.7
28 Toledo .....	304.2	290.8	292.3	(*)	(*)	(*)	12.9	11.0	11.4	38.4	72.8	76.4
29 Youngstown—Warren .....	212.5	202.9	202.2	(*)	(*)	(*)	8.1	6.9	6.9	76.4	66.9	66.8
30 <b>OKLAHOMA</b> .....	1,099.9	1,125.6	1,133.9	61.4	70.0	70.7	64.4	61.0	61.1	185.1	183.6	183.7
31 Oklahoma City .....	384.1	405.3	407.3	13.8	15.3	15.6	21.1	22.3	22.6	53.7	56.3	56.1
32 Tulsa .....	287.3	251.9	292.5	18.3	19.8	20.0	16.8	16.2	15.9	60.3	61.0	61.2
33 <b>OREGON</b> .....	1,063.0	1,018.6	1,024.0	2.6	2.4	2.4	58.2	48.7	49.5	240.3	208.4	215.8
34 Eugene—Springfield .....	104.5	99.1	100.1	(1)	(1)	(1)	6.4	4.1	4.4	22.5	19.3	20.1
35 Jackson County .....	-	-	-	-	-	-	-	-	-	3.5	7.2	7.6
36 Portland .....	556.0	545.2	543.4	(1)	(1)	(1)	30.3	25.9	26.6	118.7	112.4	113.4
37 Salem .....	54.6	88.2	93.6	(1)	(1)	(1)	5.6	4.9	4.6	21.2	14.3	15.5
38 <b>PENNSYLVANIA</b> .....	4,845.7	4,741.5	4,738.8	51.9	48.4	48.2	227.1	213.0	214.4	1,390.4	1,306.7	1,308.9
39 Allentown—Bethlehem—Easton .....	264.1	259.3	258.7	(1)	(1)	(1)	10.1	10.3	10.4	111.0	107.8	108.4
40 Altoona .....	53.3	53.9	53.7	(1)	(1)	(1)	3.0	3.0	2.9	13.3	12.8	13.1
41 Delaware Valley <sup>9</sup> .....	1,594.2	1,590.5	1,588.2	(1)	(1)	(1)	64.3	67.2	66.4	381.4	369.6	367.8
42 Erie .....	119.5	114.6	113.6	(1)	(1)	(1)	4.0	3.8	3.7	45.3	41.6	41.1
43 Harrisburg .....	222.2	217.3	215.6	(1)	(1)	(1)	9.3	8.2	8.5	44.3	42.4	42.8
44 Johnstown .....	92.1	85.6	86.1	9.4	7.9	8.1	4.0	3.4	3.4	21.2	18.5	18.9
45 Lancaster .....	153.0	149.8	149.6	(1)	(1)	(1)	8.6	7.4	7.7	61.2	57.9	57.7
46 Northeast Pennsylvania .....	247.8	240.8	243.4	1.2	1.2	1.2	14.6	12.7	12.6	73.5	69.9	72.8
47 Philadelphia SMSA .....	1,925.0	1,920.7	1,916.5	(1)	(1)	(1)	80.6	81.3	80.1	454.2	437.8	436.1
48 Philadelphia City <sup>10</sup> .....	804.1	796.7	800.8	(1)	(1)	(1)	19.4	20.0	20.1	143.4	138.2	139.4
49 Pittsburgh .....	958.4	943.6	937.3	11.2	10.8	10.7	54.2	47.4	47.4	249.5	239.5	235.5
50 Reading .....	139.0	134.8	135.9	(1)	(1)	(1)	6.2	5.5	5.6	54.7	50.1	51.5
51 Scranton <sup>11</sup> .....	66.5	85.2	86.1	(1)	(1)	(1)	3.0	2.6	2.6	27.6	26.1	28.1
52 Wilkes-Barre—Hazleton <sup>12</sup> .....	130.6	124.6	125.4	(1)	1.1	1.1	9.8	8.3	8.2	41.1	38.5	39.2
53 Williamsport .....	48.5	46.8	46.0	(1)	(1)	(1)	1.9	1.8	1.9	13.0	16.1	15.3
54 York .....	157.0	151.2	151.8	(1)	(1)	(1)	7.6	7.4	7.4	67.1	62.3	63.3
55 <b>RHODE ISLAND</b> .....	405.1	386.5	391.9	(1)	(1)	(1)	15.3	13.2	13.1	133.8	116.9	124.9
56 Providence—Warwick—Pawtucket .....	414.2	393.6	401.3	(1)	(1)	(1)	15.6	13.4	13.3	149.3	131.8	139.7
57 <b>SOUTH CAROLINA</b> .....	1,171.8	1,165.3	1,173.4	1.9	1.9	1.8	75.9	71.3	70.8	401.3	373.2	385.0
58 Charleston—North Charleston .....	145.0	147.4	147.5	(1)	(1)	(1)	11.6	11.5	11.5	19.8	17.5	17.9
59 Columbia .....	174.3	175.7	175.1	(1)	(1)	(1)	8.7	8.0	8.1	23.0	27.8	27.7
60 Greenville—Spartanburg .....	261.4	257.3	256.0	(1)	(1)	(1)	17.6	16.6	16.3	107.8	101.6	101.0
61 <b>SOUTH DAKOTA</b> .....	245.5	240.0	239.9	3.0	3.1	3.0	14.5	13.5	13.5	27.7	24.7	25.0
62 Rapid City .....	52.1	31.1	31.2	(2)	(2)	(2)	2.9	2.3	2.2	5.4	3.4	3.5
63 Sioux Falls .....	53.5	50.6	50.6	(2)	(2)	(2)	3.2	2.5	2.5	7.7	6.3	6.8

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	
1.5	1.5	1.5	8.2	8.0	8.1	1.0	1.1	1.1	6.7	6.8	6.8	7.3	7.1	7.1	1
10.2	9.8	10.0	60.9	60.2	60.4	15.0	15.3	15.2	65.6	66.5	66.0	38.3	38.0	37.5	2
35.6	36.3	36.2	235.6	240.0	238.4	51.3	51.9	51.8	202.9	206.1	205.8	170.0	176.7	174.5	3
(*)	461.6	(*)	(*)	1,384.5	(*)	(*)	623.2	(*)	(*)	1,570.1	(*)	(*)	1,136.9	(*)	4
319.2	317.9	313.0	947.0	943.1	938.0	504.0	513.1	512.7	1,163.3	1,197.5	1,196.5	795.9	797.4	797.1	5
283.7	281.6	281.8	711.3	703.1	699.5	422.7	461.2	460.9	960.5	991.6	990.8	625.9	620.7	622.5	6
260.7	258.5	258.3	610.2	600.7	595.8	431.9	440.1	439.9	852.1	881.4	881.4	543.9	537.2	539.3	7
2.9	2.7	2.7	16.2	16.4	16.4	2.6	2.7	2.7	17.7	18.2	18.1	22.3	23.3	22.9	8
13.0	12.6	12.7	78.3	77.5	77.5	16.7	17.0	16.9	78.2	78.3	78.0	57.5	56.7	56.2	9
3.6	3.4	3.4	17.4	17.8	17.0	2.5	2.5	2.6	18.8	19.1	19.3	21.6	21.2	21.3	10
15.5	15.5	15.6	60.0	60.1	60.0	15.7	16.3	16.3	50.0	50.0	50.1	48.0	49.8	49.2	11
4.0	3.9	3.9	27.5	23.3	23.4	5.8	5.8	5.8	20.5	20.5	20.8	29.0	29.4	29.3	12
18.8	19.0	18.9	80.5	81.1	82.2	17.8	18.1	18.0	86.7	88.1	87.1	57.5	59.1	58.7	13
117.8	117.5	118.2	490.6	498.3	502.4	96.1	98.5	98.7	345.5	360.6	361.6	356.7	362.3	363.8	14
3.7	3.7	3.7	15.4	15.0	15.0	2.2	2.3	2.3	16.0	15.2	15.0	11.0	11.2	10.7	15
31.1	30.4	30.5	84.0	84.9	85.0	20.7	20.8	20.8	48.3	50.1	49.7	31.0	31.5	32.2	16
21.4	20.7	20.8	77.9	78.1	78.0	18.0	18.2	18.2	56.8	58.6	58.8	40.7	41.0	40.6	17
13.3	13.9	14.0	51.4	52.0	51.9	15.4	16.0	16.0	56.0	56.9	56.9	65.1	66.3	67.3	18
16.6	16.8	16.9	70.0	70.9	71.0	14.1	11.5	11.5	48.3	50.1	50.5	58.4	58.5	57.7	19
4.2	4.1	4.2	19.6	18.9	18.9	3.8	3.9	3.9	13.1	13.8	13.8	10.8	11.6	11.4	20
237.9	239.0	239.4	988.2	977.8	978.2	203.8	207.3	207.5	825.8	852.3	851.3	633.4	662.0	648.1	21
15.6	16.0	16.0	59.4	59.3	59.2	9.6	9.4	9.4	52.1	54.4	54.4	38.4	40.7	39.6	22
7.8	7.6	7.0	35.4	35.4	35.4	5.7	5.8	5.9	29.2	30.5	30.3	17.6	18.4	17.8	23
35.0	35.4	35.0	139.4	139.3	139.4	32.6	33.3	33.4	122.4	129.5	128.6	75.7	78.6	77.2	24
48.9	49.1	49.2	215.8	213.4	213.4	48.7	49.7	49.7	183.5	190.2	190.2	119.7	125.4	123.6	25
25.4	25.9	25.9	121.5	120.4	121.1	36.4	38.6	38.7	101.4	105.5	106.0	96.1	99.6	97.8	26
13.4	13.7	13.7	76.1	75.4	75.5	13.7	13.8	13.8	70.7	73.0	73.9	63.5	65.8	64.9	27
21.8	22.5	22.3	69.3	67.8	67.0	10.6	10.9	10.9	60.3	61.9	62.1	40.4	43.4	41.2	28
10.6	10.6	10.5	47.7	47.1	46.9	7.1	7.1	7.1	38.4	39.4	39.2	23.8	24.6	24.3	29
66.1	65.9	65.9	260.5	267.3	269.9	54.9	56.1	56.0	188.8	203.2	204.7	218.7	222.5	221.9	30
23.2	23.1	23.0	96.3	102.3	103.4	24.3	25.3	25.3	69.2	74.3	74.6	82.5	86.4	86.7	31
22.4	23.4	23.5	70.6	70.8	71.5	14.8	14.9	14.8	54.9	56.2	56.6	29.2	29.6	29.0	32
61.0	60.0	60.1	260.2	256.5	257.5	71.4	70.6	70.7	185.2	185.0	184.9	184.1	187.0	183.1	33
5.3	5.2	5.1	26.0	24.8	25.0	5.6	5.5	5.5	19.3	19.7	19.8	19.4	20.5	20.2	34
36.4	36.3	36.3	143.4	140.9	140.5	45.2	44.4	44.5	106.7	107.1	107.1	75.3	78.3	75.0	35
2.8	2.9	2.9	19.3	19.5	19.4	5.7	5.7	5.7	14.3	14.7	14.8	25.7	26.2	26.0	36
271.1	254.5	253.8	986.6	963.2	963.0	239.4	244.0	243.2	971.2	990.9	992.7	708.0	720.8	714.0	37
14.4	14.6	14.7	50.4	49.5	49.5	8.6	8.8	8.8	41.1	42.1	42.1	28.5	26.1	25.0	38
7.7	6.7	6.6	12.0	12.5	12.4	1.5	1.5	1.5	8.9	9.2	9.1	6.9	8.2	7.9	39
86.6	80.7	79.4	323.0	324.5	324.5	110.4	111.6	110.9	384.2	395.4	395.2	243.8	241.7	244.0	40
5.5	5.3	5.2	24.3	24.7	24.0	4.7	4.9	4.9	21.5	21.4	21.4	14.2	12.9	12.7	41
17.3	17.2	17.0	44.5	41.7	41.7	12.6	12.8	12.9	38.9	39.7	39.6	55.3	55.3	53.1	42
5.5	4.5	4.6	16.6	16.7	17.0	4.0	4.1	4.1	16.2	16.4	16.6	15.2	14.1	13.4	43
6.8	6.9	6.8	33.5	33.8	33.0	5.3	5.5	5.5	24.1	24.6	24.6	13.5	13.7	13.5	44
13.4	13.4	13.5	51.7	50.2	50.7	9.6	9.7	9.8	43.6	44.7	45.3	40.2	39.0	37.5	45
102.1	95.7	94.3	409.0	409.5	409.0	126.8	128.6	127.7	449.3	463.0	463.1	303.0	304.8	305.6	46
58.2	53.8	53.1	147.5	146.7	145.9	70.1	70.6	70.2	209.6	213.7	213.7	155.9	154.1	158.4	47
63.3	58.2	58.5	208.1	201.9	202.7	45.5	46.6	46.3	206.5	206.8	206.6	120.1	132.4	129.6	48
6.6	6.4	6.5	27.3	26.9	28.7	6.1	6.4	6.4	23.0	23.9	23.8	15.1	15.6	15.4	49
4.1	4.3	4.3	19.8	19.3	19.2	3.4	3.5	3.5	16.3	17.3	17.4	12.3	12.1	11.0	50
7.2	7.0	7.1	26.6	25.6	26.0	5.3	5.4	5.4	18.7	18.6	18.8	20.8	20.1	19.6	51
2.4	2.3	2.3	10.0	9.8	9.8	2.1	2.1	2.1	7.8	8.2	8.2	6.3	6.5	6.4	52
7.2	6.9	7.0	32.4	31.1	30.9	3.9	4.1	4.1	21.0	21.7	21.8	17.8	17.7	17.3	53
13.6	12.9	13.2	81.7	78.1	78.1	21.1	20.4	20.4	81.2	81.9	81.6	58.4	61.1	60.6	54
13.4	12.8	13.1	82.4	79.1	79.1	21.1	20.4	20.4	77.1	78.2	78.2	55.3	57.9	57.5	55
54.4	53.7	53.8	227.3	231.8	231.5	47.8	49.7	49.4	155.7	165.0	162.6	207.5	218.7	218.2	56
8.9	9.4	9.5	31.8	31.5	31.0	6.4	6.6	6.6	23.7	25.5	25.3	42.8	45.4	45.1	57
9.3	9.6	9.6	38.0	37.7	38.5	13.6	14.4	14.4	25.8	26.3	26.1	50.9	51.9	50.9	58
10.5	9.7	9.7	50.9	51.0	51.7	9.2	9.7	9.7	35.4	36.8	36.8	30.0	31.9	30.8	59
13.8	13.6	13.4	69.5	67.3	67.1	11.2	11.8	11.9	51.3	50.6	51.1	54.5	55.4	54.9	60
2.0	1.8	1.7	10.3	10.0	10.1	1.4	1.4	1.4	7.0	7.2	7.2	5.1	5.0	5.1	61
4.9	4.7	4.6	16.2	15.3	15.1	3.4	3.5	3.5	12.1	11.7	11.9	6.0	6.1	6.2	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		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
1 TENNESSEE .....	1,794.7	1,742.6	1,750.7	11.4	9.9	9.8	96.9	87.7	88.0	533.5	493.2	504.8
2 Chattanooga .....	174.9	168.3	(*)	1.3	1.4	(*)	7.5	6.6	(*)	54.8	50.4	(*)
3 Knoxville .....	194.6	191.7	192.2	1.6	1.6	1.6	11.9	10.9	10.9	54.1	51.0	51.5
4 Memphis .....	359.8	354.5	353.7	.2	.2	.2	16.2	16.3	16.3	62.6	59.2	59.3
5 Nashville—Davidson .....	364.4	355.8	356.2	(1)	(1)	(1)	22.4	20.7	20.7	82.1	75.3	77.2
6 TEXAS .....	5,627.1	5,797.8	5,783.7	203.3	226.9	227.3	438.3	442.8	438.5	1,028.6	1,044.5	1,044.2
7 Amarillo .....	74.8	74.2	74.0	(1)	(1)	(1)	5.3	5.1	5.1	9.4	8.7	8.6
8 Austin .....	229.8	236.3	236.2	(1)	(1)	(1)	13.7	13.4	13.3	29.3	30.5	30.6
9 Beaumont—Port Arthur—Orange .....	145.6	143.8	143.0	(1)	(1)	(1)	13.6	10.3	10.4	41.6	43.2	42.8
10 Corpus Christi .....	122.0	122.7	121.2	6.5	7.3	7.0	16.5	13.6	13.1	14.9	16.1	15.9
11 Dallas—Fort Worth .....	1,390.7	1,443.7	1,442.2	21.9	24.6	24.4	84.2	83.7	83.1	308.0	313.2	310.4
12 El Paso .....	156.1	157.3	156.6	(1)	4.1	(1)	8.6	9.5	9.5	32.0	30.9	31.1
13 Galveston—Texas City .....	67.7	71.9	71.2	(1)	(1)	(1)	5.3	5.7	5.6	11.9	12.6	12.5
14 Houston .....	1,372.1	1,400.9	1,403.8	69.0	74.4	74.9	143.7	140.4	141.7	223.4	238.7	238.1
15 Lubbock .....	86.3	86.9	87.1	(1)	(1)	(1)	4.9	4.2	4.2	13.1	12.9	12.7
16 San Antonio .....	370.9	384.5	383.7	2.0	2.2	2.2	26.3	27.1	27.3	47.5	48.3	48.5
17 Waco .....	68.9	68.9	68.9	(1)	(1)	(1)	3.6	3.5	3.7	16.9	16.2	16.2
18 Wichita Falls .....	50.3	50.9	51.1	2.8	3.0	3.0	2.8	2.6	2.7	9.4	9.1	9.4
19 UTAH .....	555.5	554.7	557.1	13.1	13.6	13.6	40.4	37.6	38.1	88.0	88.9	90.3
20 Salt Lake City—Ogden .....	393.1	391.8	392.2	7.6	2.9	2.9	27.4	24.4	24.5	59.1	60.0	60.6
21 VERMONT .....	198.9	196.4	199.2	.8	.5	.7	12.2	11.4	11.5	52.0	48.9	50.3
22 Burlington <sup>1,2</sup> .....	54.2	55.4	55.0	-	-	-	-	-	-	14.5	15.0	15.0
23 Springfield <sup>1,3</sup> .....	14.6	14.7	14.6	-	-	-	-	-	-	6.2	6.2	6.3
24 VIRGINIA .....	2,115.1	2,113.6	2,122.6	24.4	24.0	24.1	148.0	129.2	129.3	416.5	399.4	405.0
25 Bristol .....	28.8	27.5	28.1	(1)	(1)	(1)	1.5	1.4	1.4	9.8	8.9	9.3
26 Lynchburg .....	72.7	65.3	70.8	(1)	(1)	(1)	3.9	3.9	4.1	29.9	27.2	28.5
27 Newport News—Hampton .....	149.3	155.9	155.2	(1)	(1)	(1)	7.9	7.7	7.2	33.4	34.6	34.9
28 Norfolk—Virginia Beach—Portsmouth .....	287.2	285.0	284.0	(1)	(1)	(1)	19.1	16.5	16.5	30.4	29.8	29.2
29 Northern Virginia <sup>1,4</sup> .....	429.2	432.6	432.7	.4	.4	.4	33.2	27.9	28.1	16.3	17.0	17.0
30 Petersburg—Colonial Hghts.—Hopewell .....	46.8	48.8	48.5	(1)	(1)	(1)	2.4	3.9	3.9	12.1	11.7	11.6
31 Richmond .....	325.3	322.7	322.9	.4	.4	.4	20.1	17.2	17.2	55.7	54.8	55.0
32 Roanoke .....	105.1	105.2	105.7	.1	.1	.1	6.7	6.8	6.8	20.8	21.1	21.0
33 WASHINGTON .....	1,593.8	1,598.9	1,604.5	3.0	2.7	2.7	109.4	86.1	86.6	314.2	300.6	301.7
34 Seattle—Everett .....	764.0	782.1	785.6	(1)	(1)	(1)	49.7	45.8	47.0	173.2	176.0	177.3
35 Spokane .....	127.5	128.2	127.3	(1)	(1)	(1)	8.5	8.2	8.3	18.2	17.6	17.6
36 Tacoma .....	142.0	136.9	138.0	(1)	(1)	(1)	9.4	7.3	7.6	23.0	21.0	21.5
37 WEST VIRGINIA .....	650.2	636.2	625.7	66.0	59.8	59.3	46.0	40.7	40.7	124.6	114.9	115.8
38 Charleston .....	118.0	117.4	115.9	7.2	6.5	6.4	8.7	8.3	8.3	19.2	17.3	17.2
39 Huntington—Ashland .....	111.0	106.9	106.9	1.1	1.2	1.3	9.3	8.1	8.4	29.4	26.0	26.6
40 Parkersburg—Marietta .....	59.7	57.3	56.8	.5	.5	.5	4.6	3.9	3.9	17.9	16.3	16.2
41 Wheeling .....	68.2	65.8	65.2	7.6	6.0	6.0	4.2	4.0	3.8	13.9	12.6	12.7
42 WISCONSIN .....	1,583.0	1,972.5	1,983.3	3.2	2.6	2.6	92.7	74.0	74.4	606.9	554.1	560.0
43 Appleton—Oshkosh .....	131.7	129.1	129.5	(1)	(1)	(1)	7.2	6.3	5.9	51.8	47.2	47.7
44 Eau Claire .....	47.6	48.5	48.3	(1)	(1)	(1)	2.4	1.7	1.8	9.3	8.9	8.9
45 Green Bay .....	79.4	75.4	80.4	(1)	(1)	(1)	4.1	3.7	3.5	23.1	22.0	22.7
46 Janesville—Beloit .....	49.2	47.0	48.7	(1)	(1)	(1)	2.1	1.7	1.7	17.9	14.5	16.7
47 Kenosha .....	49.3	45.6	46.5	(1)	(1)	(1)	4.7	2.0	2.0	19.9	17.9	18.6
48 La Crosse .....	41.1	44.0	44.4	(1)	(1)	(1)	2.2	1.9	1.8	9.1	10.9	10.9
49 Madison .....	167.6	174.2	174.7	(1)	(1)	(1)	9.2	8.4	8.1	27.6	20.4	27.7
50 Milwaukee .....	622.5	676.4	677.3	(1)	(1)	(1)	25.0	18.9	20.1	221.3	202.6	201.4
51 Racine .....	71.8	69.8	66.9	(1)	(1)	(1)	2.5	2.2	2.3	32.1	29.2	26.3
52 WYOMING .....	210.3	222.2	223.1	33.8	38.0	38.7	25.5	27.8	28.8	10.5	11.6	11.7
53 Casper .....	40.7	44.2	44.4	7.9	10.1	10.4	4.5	6.6	6.7	2.1	2.2	2.2
54 Cheyenne .....	28.9	28.3	28.4	(1)	(1)	(1)	2.5	2.6	2.7	1.7	1.9	1.9
55 VIRGIN ISLANDS .....	35.9	36.3	36.5	(2)	(2)	(2)	2.5	2.7	2.7	3.2	3.3	3.2

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

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

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

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

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

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

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

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

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

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

<sup>11</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Lackawanna 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			
AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	
89.0	84.9	85.3	390.8	381.0	381.0	73.8	77.5	77.7	291.8	305.3	305.0	302.5	302.7	298.6	1
7.3	7.2	(*)	33.3	32.1	(*)	10.1	9.8	(*)	28.6	29.0	(*)	32.0	31.8	(*)	2
8.0	7.9	7.9	40.9	40.3	40.4	8.1	8.0	8.0	30.4	30.0	30.0	39.6	42.0	41.9	3
27.7	27.2	27.2	96.7	95.2	95.0	19.7	19.7	19.8	72.5	73.4	73.0	64.2	63.3	62.3	4
22.2	20.7	20.7	84.2	79.1	78.9	24.4	24.7	24.6	69.8	73.7	72.5	59.3	62.0	61.6	5
360.2	365.4	366.1	1,379.9	1,393.0	1,396.4	320.3	334.7	336.9	974.6	1,004.4	1,004.1	921.9	986.1	970.2	6
7.2	7.1	7.2	22.5	21.9	21.4	3.8	3.7	3.6	14.8	14.9	15.0	11.8	12.8	12.7	7
7.2	7.2	7.2	49.2	47.9	48.4	13.4	13.7	13.7	40.1	41.4	42.1	76.9	82.2	80.9	8
10.7	11.7	11.1	31.5	29.7	30.0	5.3	5.3	5.3	24.9	24.7	24.6	18.0	18.9	19.8	9
7.1	7.0	7.2	27.9	28.1	27.3	5.4	5.3	5.2	19.0	20.7	20.4	24.7	24.6	24.6	10
91.8	96.0	96.1	372.9	390.5	393.2	103.3	109.7	109.8	244.0	259.3	260.1	164.6	166.7	165.1	11
11.0	11.1	11.0	39.5	39.5	39.4	7.5	7.4	7.5	25.0	25.9	25.9	32.5	33.0	32.2	12
6.9	6.9	6.9	12.4	13.5	13.5	4.4	4.5	4.5	11.1	12.2	12.4	15.7	16.5	15.9	13
100.0	101.6	102.0	335.4	330.1	331.7	83.3	86.6	87.1	262.4	272.6	273.3	149.9	156.5	155.0	14
5.0	4.9	4.9	25.3	24.9	25.1	4.7	5.0	5.0	16.3	16.8	17.0	17.0	18.2	18.2	15
17.7	18.4	18.5	95.3	96.3	96.2	25.1	25.8	25.9	72.5	75.6	75.0	90.5	90.8	90.1	16
3.2	3.2	3.2	16.0	16.8	16.0	4.3	4.4	4.5	13.7	13.8	13.7	11.2	11.0	10.8	17
2.4	2.5	2.4	12.5	12.7	12.0	2.3	2.3	2.3	7.6	7.9	7.8	10.5	10.8	10.7	18
34.4	35.1	34.8	129.7	128.8	129.0	20.5	26.7	26.9	97.9	101.4	101.9	120.6	122.7	121.6	19
27.1	27.9	27.3	96.0	95.8	96.4	21.3	21.4	21.5	68.7	71.5	71.7	85.9	87.9	86.9	20
9.0	8.8	8.8	41.2	41.4	41.4	7.9	8.1	8.2	43.9	44.0	44.7	31.9	33.3	32.4	21
2.5	2.4	2.4	11.9	12.2	12.1	-	-	-	11.1	11.5	11.5	-	-	-	22
.6	.6	.6	2.3	2.2	2.2	-	-	-	2.3	2.8	2.8	-	-	-	23
115.6	115.4	115.3	440.0	447.6	451.3	105.9	106.7	106.6	379.0	394.6	395.6	485.7	496.5	495.3	24
1.1	1.1	1.1	6.8	6.5	6.7	1.0	1.0	1.0	3.5	3.7	3.8	5.1	4.9	4.8	25
2.8	2.8	2.8	12.1	11.6	11.5	3.5	3.7	3.7	10.6	10.7	10.7	9.9	9.4	9.4	26
5.2	5.3	5.3	28.6	29.2	29.3	5.3	5.3	5.3	28.7	31.3	30.7	40.2	42.5	42.5	27
19.5	19.3	19.3	78.5	69.3	69.5	14.9	14.7	14.8	54.9	55.8	55.8	77.9	79.6	78.9	28
29.3	29.8	29.5	97.9	98.1	98.0	27.7	27.5	27.5	109.5	114.5	114.9	114.4	117.4	116.7	29
1.5	1.5	1.5	8.4	8.1	8.1	1.3	1.3	1.3	5.8	6.2	6.4	15.3	16.1	15.7	30
19.6	19.8	19.9	73.6	72.8	72.9	27.1	27.0	26.9	58.6	60.0	59.9	70.2	70.7	70.7	31
10.3	9.6	9.9	26.2	25.4	25.0	6.0	6.3	6.3	19.5	19.8	19.7	15.5	16.1	16.3	32
90.6	90.0	89.8	387.0	399.3	403.2	91.5	96.7	96.9	296.7	312.4	316.2	301.4	311.1	307.4	33
51.8	53.9	53.9	183.2	186.0	186.7	54.0	55.5	55.7	142.8	151.0	152.3	109.3	113.9	112.7	34
8.2	8.1	8.0	37.3	36.1	36.3	7.2	8.2	8.2	27.6	28.1	28.1	19.5	21.9	20.8	35
6.8	6.5	6.6	33.9	32.7	33.0	7.3	7.3	7.3	30.1	29.8	30.1	31.5	32.3	31.9	36
44.7	43.1	43.6	134.6	130.7	131.1	21.9	21.7	21.7	96.1	96.9	97.0	116.4	128.4	116.5	37
9.9	10.1	10.0	27.8	27.4	27.3	5.1	5.1	5.1	20.4	20.6	20.6	19.7	22.1	20.7	38
10.3	9.9	9.8	24.2	23.8	24.0	3.9	3.9	3.9	15.6	16.1	16.0	17.2	18.0	17.0	39
2.8	2.7	2.6	12.8	12.4	12.5	2.2	2.2	2.2	8.4	8.9	8.9	10.1	10.5	10.0	40
3.7	3.7	3.7	15.5	15.6	15.6	2.6	2.7	2.7	13.0	13.1	13.2	7.8	8.1	7.6	41
90.9	88.2	88.5	453.8	472.9	477.3	93.0	96.7	96.6	363.8	385.2	389.4	283.7	298.8	294.5	42
4.4	4.5	4.6	27.2	27.7	28.1	5.2	5.4	5.5	20.7	21.6	21.7	15.2	16.3	16.0	43
2.7	2.6	2.7	13.1	13.7	13.7	1.6	1.6	1.6	9.6	10.1	10.1	8.9	9.8	9.4	44
6.0	6.3	6.3	20.2	20.4	20.5	2.5	2.5	2.4	14.0	14.2	14.5	9.6	10.4	10.4	45
1.9	1.8	1.8	11.8	12.1	12.0	1.4	1.4	1.4	8.4	8.5	8.4	5.8	6.9	6.6	46
1.4	1.5	1.4	3.6	3.7	3.7	1.0	1.1	1.1	7.6	8.0	8.1	6.0	6.5	6.7	47
2.5	2.5	2.5	11.4	11.1	12.0	1.1	1.1	1.1	9.4	10.1	10.2	5.3	5.7	5.7	48
6.1	6.3	6.3	35.3	35.8	36.3	12.5	13.4	13.6	31.0	33.2	33.7	52.9	56.8	56.0	49
34.2	32.9	33.0	149.7	154.7	155.3	33.8	39.5	39.3	139.2	151.0	152.1	73.7	76.8	76.0	50
2.1	2.0	2.0	13.4	13.5	13.5	2.3	2.4	2.4	11.1	11.8	11.9	8.3	8.6	8.5	51
17.0	17.2	17.3	47.8	48.8	48.0	7.3	7.6	7.5	33.5	34.1	34.5	34.9	37.1	36.6	52
3.0	3.0	3.0	11.2	11.3	11.1	1.5	1.6	1.6	5.4	5.2	5.2	5.1	4.2	4.2	53
4.3	4.2	4.0	7.6	7.5	7.3	1.5	1.5	1.5	4.4	4.1	4.2	6.9	7.0	6.8	54
2.1	2.4	2.3	6.8	7.2	7.0	1.4	1.4	1.4	5.4	5.6	5.5	14.5	13.7	14.4	55

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

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

<sup>14</sup> 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 HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
-	<b>TOTAL PRIVATE</b> .....	\$222.48	\$225.54	\$234.39	\$236.79	\$238.96	\$6.18	\$6.30	\$6.64	\$6.67	\$6.77
-	<b>MINING</b> .....	366.35	372.81	380.45	394.25	399.11	8.50	8.59	9.08	9.19	9.26
10	<b>METAL MINING</b> .....	383.64	393.87	381.95	394.75	-	9.38	9.63	10.24	10.28	-
101	Iron ores .....	413.34	409.76	407.74	403.31	-	9.68	9.85	11.08	11.08	-
102	Copper ores .....	411.40	420.18	321.30	360.36	-	9.68	9.91	10.50	10.63	-
11, 12	<b>COAL MINING</b> .....	414.80	423.10	390.22	434.40	-	10.37	10.37	(*)	10.86	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	416.00	424.32	390.22	435.60	-	10.40	10.40	(*)	10.89	-
13	<b>OIL AND GAS EXTRACTION</b> .....	344.06	350.88	387.21	387.90	-	7.68	7.78	8.51	8.62	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	357.25	372.49	400.73	393.60	-	8.65	8.89	9.75	9.60	-
138	Oil and gas field services .....	338.65	342.16	382.45	385.58	-	7.33	7.39	8.12	8.31	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	321.54	322.85	328.74	332.78	-	6.99	7.08	7.54	7.65	-
142	Crushed and broken stone .....	323.61	322.38	321.33	322.81	-	6.77	6.83	7.27	7.37	-
-	<b>CONSTRUCTION</b> .....	355.85	361.76	373.61	374.49	385.44	9.34	9.52	9.91	10.04	10.17
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	317.82	324.43	338.74	337.59	-	8.66	8.84	9.23	9.30	-
152	Residential building construction .....	301.18	306.01	316.90	318.62	-	8.32	8.43	8.73	8.90	-
153	Operative builders .....	277.11	279.36	289.81	290.88	-	7.37	7.53	7.94	8.08	-
154	Nonresidential building construction .....	339.47	347.63	362.47	358.80	-	9.15	9.37	9.77	9.75	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	370.06	372.74	381.29	384.17	-	8.79	8.96	9.21	9.37	-
161	Highway and street construction .....	376.99	383.69	380.49	378.36	-	8.51	8.76	8.89	9.03	-
162	Heavy construction, except highway .....	365.65	367.34	380.83	387.73	-	8.94	9.07	9.38	9.55	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	370.63	376.29	388.29	390.21	-	9.99	10.17	10.58	10.72	-
171	Plumbing, heating, air conditioning .....	382.28	389.64	404.46	406.83	-	10.06	10.20	10.70	10.82	-
172	Painting, paper hanging, decorating .....	323.44	327.13	337.47	346.29	-	9.06	9.32	9.56	9.81	-
173	Electrical work .....	428.89	431.26	446.56	446.56	-	11.14	11.26	11.94	11.94	-
174	Masonry, stonework, and plastering .....	346.92	349.47	370.99	370.30	-	9.80	9.90	10.48	10.58	-
175	Carpentering and flooring .....	315.06	323.70	329.94	335.12	-	8.90	9.17	9.40	9.63	-
176	Roofing and sheet metal work .....	304.67	308.91	322.48	323.87	-	8.78	8.98	9.24	9.47	-
-	<b>MANUFACTURING</b> .....	268.00	274.04	282.85	286.89	294.18	6.70	6.80	7.29	7.30	7.41
24, 25, 32-39	<b>DURABLE GOODS</b> .....	288.05	295.39	303.81	308.09	317.19	7.13	7.24	7.77	7.78	7.91
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	237.98	241.96	254.10	257.52	261.97	6.04	6.11	6.60	6.62	6.70
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	248.18	252.63	256.70	263.14	263.70	6.22	6.30	6.72	6.73	6.71
241	Logging camps and logging contractors .....	329.04	342.40	361.70	359.30	-	8.33	8.56	9.02	8.36	-
242	Sawmills and planing mills .....	265.92	269.21	266.47	274.22	-	6.47	6.55	6.85	6.96	-
2421	Sawmills and planing mills, general .....	280.98	284.56	280.28	287.89	-	6.82	6.89	7.15	7.27	-
2426	Hardwood dimension and flooring .....	172.80	175.47	176.15	184.21	-	4.32	4.42	4.71	4.76	-
243	Millwork, plywood, and structural members .....	238.19	241.35	240.41	251.55	-	6.03	6.11	6.48	6.50	-
2431	Millwork .....	225.23	232.25	231.78	242.68	-	5.79	5.85	6.35	6.42	-
2434	Wood kitchen cabinets .....	204.12	210.52	204.97	217.88	-	5.40	5.54	5.89	5.81	-
2435	Hardwood veneer and plywood .....	193.04	199.26	187.99	200.47	-	4.79	4.92	5.04	5.18	-
2436	Softwood veneer and plywood .....	316.16	315.93	314.02	324.39	-	7.73	7.82	7.97	7.99	-
244	Wooden containers .....	172.21	177.75	178.49	182.90	-	4.52	4.63	4.89	4.93	-
245	Wood buildings and mobile homes .....	219.25	221.55	222.77	234.98	-	5.68	5.71	6.12	6.20	-
2451	Mobile homes .....	218.09	221.34	215.23	231.99	-	5.65	5.69	6.08	6.17	-
249	Miscellaneous wood products .....	203.72	204.42	210.37	215.46	-	5.03	5.06	5.45	5.40	-
25	<b>FURNITURE AND FIXTURES</b> .....	157.49	202.02	199.82	209.61	214.83	5.09	5.18	5.52	5.56	5.58
251	Household furniture .....	184.89	188.18	181.96	191.66	-	4.79	4.85	5.14	5.18	-
2511	Wood household furniture .....	174.00	177.75	171.12	177.18	-	4.45	4.50	4.78	4.75	-
2512	Upholstered household furniture .....	152.02	195.29	184.42	197.64	-	5.08	5.18	5.44	5.49	-
2514	Metal household furniture .....	193.15	194.16	190.99	204.96	-	5.03	5.03	5.38	5.60	-
2515	Mattresses and bedsprings .....	212.16	217.01	210.70	220.00	-	5.44	5.55	5.71	5.82	-
252	Office furniture .....	219.09	220.09	219.38	238.60	-	5.45	5.53	5.85	6.01	-
253	Public building and related furniture .....	157.69	204.22	222.71	221.18	-	5.23	5.36	5.74	5.73	-
254	Partitions and fixtures .....	243.43	254.96	251.46	260.94	-	6.21	6.39	6.67	6.76	-
259	Miscellaneous furniture and fixtures .....	208.69	218.50	229.40	238.46	-	5.58	5.72	6.15	6.13	-

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				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980C	Aug. 1980P	Sept. 1980P
-	<b>TOTAL PRIVATE</b> .....	36.0	35.8	35.3	35.5	35.3	-	-	-	-	-
-	<b>MINING</b> .....	43.1	43.4	41.9	42.9	43.1	-	-	-	-	-
10	<b>METAL MINING</b> .....	40.9	40.9	37.3	38.4	-	-	-	-	-	-
101	Iron ores .....	42.7	41.6	36.8	36.4	-	-	-	-	-	-
102	Copper ores .....	42.5	42.4	30.6	33.9	-	-	-	-	-	-
11, 12	<b>COAL MINING</b> .....	40.0	40.8	(*)	40.0	-	-	-	-	-	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> .....	40.0	40.8	(*)	40.0	-	-	-	-	-	-
13	<b>OIL AND GAS EXTRACTION</b> .....	44.8	45.1	45.5	45.0	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids .....	41.3	41.9	41.1	41.0	-	-	-	-	-	-
138	Oil and gas field services .....	46.2	46.3	47.1	46.4	-	-	-	-	-	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	46.0	45.6	43.6	43.5	-	-	-	-	-	-
142	Crushed and broken stone .....	47.8	47.2	44.2	43.8	-	-	-	-	-	-
-	<b>CONSTRUCTION</b> .....	38.1	38.0	37.7	37.3	37.9	-	-	-	-	-
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	36.7	36.7	36.7	36.3	-	-	-	-	-	-
152	Residential building construction .....	36.2	36.3	36.3	35.8	-	-	-	-	-	-
153	Operative builders .....	37.6	37.1	36.5	36.0	-	-	-	-	-	-
154	Nonresidential building construction .....	37.1	37.1	37.1	36.8	-	-	-	-	-	-
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	42.1	41.6	41.4	41.0	-	-	-	-	-	-
161	Highway and street construction .....	44.3	43.8	42.8	41.9	-	-	-	-	-	-
162	Heavy construction, except highway .....	40.9	40.5	40.6	40.6	-	-	-	-	-	-
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	37.1	37.0	36.7	36.4	-	-	-	-	-	-
171	Plumbing, heating, air conditioning .....	38.0	38.2	37.8	37.6	-	-	-	-	-	-
172	Painting, paper hanging, decorating .....	35.7	35.1	35.3	35.3	-	-	-	-	-	-
173	Electrical work .....	38.5	38.3	37.4	37.4	-	-	-	-	-	-
174	Masonry, stonework, and plastering .....	35.4	35.3	35.4	35.0	-	-	-	-	-	-
175	Carpentering and flooring .....	35.4	35.3	35.1	34.8	-	-	-	-	-	-
176	Roofing and sheet metal work .....	34.7	34.4	34.9	34.2	-	-	-	-	-	-
-	<b>MANUFACTURING</b> .....	40.0	40.3	38.8	39.3	39.7	3.3	3.6	2.4	2.7	3.0
24, 25, 32-39	<b>DURABLE GOODS</b> .....	40.4	40.8	39.1	39.6	40.1	3.4	3.6	2.3	2.6	2.9
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	39.4	39.6	38.5	38.9	39.1	3.2	3.5	2.6	2.9	3.0
	<b>DURABLE GOODS</b>										
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	39.9	40.1	38.2	39.1	39.3	3.7	3.5	2.5	3.0	-
241	Logging camps and logging contractors .....	39.5	40.0	40.1	40.1	-	4.6	4.8	3.8	4.6	-
242	Sawmills and planing mills .....	41.1	41.1	38.9	39.4	-	4.6	4.6	3.2	3.6	-
2421	Sawmills and planing mills, general .....	41.2	41.3	35.2	39.6	-	4.9	4.5	3.5	3.9	-
2426	Hardwood dimension and flooring .....	40.0	39.7	37.4	38.7	-	3.3	3.4	1.8	2.3	-
243	Millwork, plywood, and structural members .....	39.5	39.5	37.1	38.7	-	3.1	3.3	1.9	2.3	-
2431	Millwork .....	38.9	39.7	36.5	37.8	-	2.0	2.2	1.1	1.5	-
2434	Wood kitchen cabinets .....	37.8	38.0	34.8	37.5	-	2.2	2.2	1.0	1.2	-
2435	Hardwood veneer and plywood .....	40.3	40.5	37.3	38.7	-	3.7	4.1	2.1	2.8	-
2436	Softwood veneer and plywood .....	40.9	40.4	39.4	40.6	-	4.8	5.2	3.2	3.9	-
244	Wooden containers .....	38.1	38.4	36.5	37.1	-	2.7	3.3	1.4	1.6	-
245	Wood buildings and mobile homes .....	38.6	38.8	36.4	37.9	-	2.4	2.4	1.3	1.9	-
2451	Mobile homes .....	38.6	38.9	35.4	37.6	-	2.0	2.3	1.1	1.7	-
249	Miscellaneous wood products .....	40.5	40.4	38.6	39.9	-	3.4	3.7	2.3	2.6	-
25	<b>FURNITURE AND FIXTURES</b> .....	38.8	39.0	36.2	37.7	38.5	2.1	2.5	1.1	1.6	-
251	Household furniture .....	38.6	38.8	35.4	37.0	-	2.0	2.3	.8	1.3	-
2511	Wood household furniture .....	39.1	39.5	35.8	37.3	-	2.2	2.8	.8	1.4	-
2512	Upholstered household furniture .....	37.8	37.7	33.9	36.0	-	1.2	1.6	.5	.8	-
2514	Metal household furniture .....	38.4	38.6	35.5	36.6	-	1.6	1.5	.8	.9	-
2515	Mattresses and bedsprings .....	39.0	39.1	36.9	37.8	-	3.3	3.4	1.5	2.4	-
252	Office furniture .....	40.2	39.8	37.5	39.7	-	2.2	2.5	1.1	2.3	-
253	Public building and related furniture .....	37.8	38.1	38.8	38.6	-	2.4	2.7	2.3	2.3	-
254	Partitions and fixtures .....	39.2	39.9	37.7	38.6	-	3.0	3.8	2.2	2.6	-
259	Miscellaneous furniture and fixtures .....	37.4	38.2	37.3	38.9	-	2.4	2.3	.7	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				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	\$288.42	\$251.48	\$306.28	\$310.13	\$315.65	\$6.90	\$6.99	\$7.60	\$7.62	\$7.68
321	Flat glass	365.40	355.37	371.45	418.20	-	8.70	8.71	9.24	9.84	-
322	Glass and glassware, pressed or blown	288.80	289.52	322.34	322.78	-	7.17	7.22	8.14	8.11	-
3221	Glass containers	301.85	303.91	349.80	356.79	-	7.49	7.56	8.68	8.66	-
3229	Pressed and blown glass, nec	266.11	271.20	285.25	274.43	-	6.72	6.78	7.39	7.26	-
323	Products of purchased glass	234.93	246.41	246.40	245.11	-	6.15	6.27	6.40	6.35	-
324	Cement, hydraulic	409.28	416.08	453.46	446.37	-	9.63	9.79	10.72	10.73	-
325	Structural clay products	227.14	233.35	236.69	244.99	-	5.54	5.65	6.18	6.14	-
326	Pottery and related products	216.19	223.83	230.76	239.68	-	5.63	5.71	6.22	6.13	-
327	Concrete, gypsum, and plaster products	309.72	310.10	319.03	323.60	-	6.96	7.08	7.56	7.65	-
3271	Concrete block and brick	252.64	255.05	291.92	291.54	-	6.46	6.45	6.68	6.78	-
3272	Concrete products, nec	265.31	264.35	279.71	288.12	-	6.17	6.28	6.74	6.86	-
3273	Ready-mixed concrete	343.80	347.55	351.54	352.80	-	7.64	7.81	8.35	8.42	-
329	Misc. nonmetallic mineral products	287.73	250.51	256.80	300.35	-	6.90	6.95	7.42	7.49	-
3291	Abrasive products	284.80	272.28	287.39	281.92	-	6.62	6.65	7.35	7.38	-
3292	Asbestos products	293.99	288.73	309.00	312.57	-	7.05	7.15	7.50	7.55	-
33	<b>PRIMARY METAL INDUSTRIES</b>	371.28	378.31	379.05	384.33	395.21	9.10	9.16	9.82	9.88	9.98
331	Blast furnace and basic steel products	451.33	437.88	434.33	441.18	-	10.65	10.68	11.46	11.61	-
3312	Blast furnaces and steel mills	444.51	451.95	450.20	456.17	-	11.03	11.05	11.91	12.10	-
3317	Steel pipe and tubes	345.68	355.70	340.21	366.81	-	8.37	8.53	9.17	9.31	-
332	Iron and steel foundries	306.68	317.42	310.76	315.44	-	7.61	7.78	8.03	8.13	-
3321	Gray iron foundries	305.32	314.40	307.62	314.63	-	7.71	7.86	7.99	8.13	-
3322	Malleable iron foundries	304.24	336.40	330.85	336.80	-	8.07	8.41	8.87	8.84	-
3325	Steel foundries, nec	318.42	328.52	315.51	317.07	-	7.51	7.64	8.09	8.13	-
333	Primary nonferrous metals	405.46	406.29	439.29	445.21	-	9.70	9.79	10.82	10.78	-
3334	Primary aluminum	427.38	423.05	484.26	476.10	-	10.20	10.42	11.53	11.50	-
335	Nonferrous rolling and drawing	335.81	348.73	358.27	365.89	-	7.92	8.11	8.89	8.99	-
3351	Copper rolling and drawing	314.03	318.38	297.86	301.43	-	7.32	7.37	7.56	7.67	-
3353	Aluminum sheet, plate, and foil	406.01	419.61	454.33	462.15	-	9.69	9.85	11.33	11.19	-
3357	Nonferrous wire drawing and insulating	303.36	317.05	328.05	332.92	-	7.24	7.46	8.10	8.20	-
336	Nonferrous foundries	265.86	272.83	276.64	287.78	-	6.63	6.77	7.28	7.36	-
3361	Aluminum foundries	274.44	279.28	280.42	292.50	-	6.81	6.93	7.36	7.50	-
34	<b>FABRICATED METAL PRODUCTS</b>	277.43	283.56	290.86	298.45	306.68	6.85	6.95	7.42	7.48	7.61
341	Metal cans and shipping containers	404.97	406.70	433.40	440.50	-	9.08	9.16	9.85	10.08	-
3411	Metal cans	420.71	420.97	456.26	459.80	-	9.37	9.46	10.23	10.45	-
342	Cutlery, hand tools, and hardware	255.84	264.14	263.09	268.19	-	6.51	6.62	6.96	6.93	-
3423, 5	Hand and edge tools, and hand saws and blades	253.92	264.31	261.58	267.65	-	6.38	6.51	6.92	6.97	-
3429	Hardware, nec	261.02	268.71	269.59	275.02	-	6.71	6.82	7.17	7.07	-
343	Plumbing and heating, except electric	237.94	243.76	245.68	256.86	-	6.07	6.14	6.64	6.62	-
3432	Plumbing fittings and brass goods	234.95	235.41	241.70	249.48	-	5.83	5.90	6.48	6.43	-
3433	Heating equipment, except electric	228.27	237.77	234.42	249.74	-	5.96	6.05	6.44	6.47	-
344	Fabricated structural metal products	268.80	276.85	287.43	294.26	-	6.67	6.77	7.24	7.32	-
3441	Fabricated structural metal	292.82	297.97	303.75	321.02	-	7.09	7.18	7.50	7.68	-
3442	Metal doors, sash, and trim	213.07	217.76	230.50	235.17	-	5.34	5.39	5.88	5.85	-
3443	Fabricated plate work (boiler shops)	294.03	307.15	320.36	324.41	-	7.26	7.42	7.91	8.03	-
3444	Sheet metal work	267.13	274.00	283.28	288.99	-	6.78	6.85	7.32	7.41	-
3446	Architectural metal work	253.49	262.76	267.02	274.97	-	6.45	6.52	6.76	6.84	-
345	Screw machine products, bolts, etc.	267.90	277.49	267.24	275.22	-	6.44	6.56	6.87	6.95	-
3451	Screw machine products	251.26	256.81	244.60	250.39	-	6.04	6.10	6.42	6.47	-
3452	Bolts, nuts, rivets, and washers	284.13	288.20	291.73	300.11	-	6.83	7.00	7.33	7.41	-
346	Metal forgings and stampings	312.33	314.00	328.10	335.36	-	7.75	7.85	8.50	8.49	-
3462	Iron and steel forgings	321.34	334.62	343.29	350.52	-	8.39	8.58	9.13	9.20	-
3465	Automotive stampings	379.73	367.88	425.19	421.70	-	9.33	9.29	10.71	10.49	-
3469	Metal stampings, nec	246.84	250.31	252.50	263.34	-	6.05	6.12	6.61	6.65	-
347	Metal services, nec	223.04	226.80	241.80	247.86	-	5.59	5.67	6.03	6.09	-
3471	Plating and polishing	213.94	217.25	226.94	235.03	-	5.43	5.50	5.91	5.95	-
3479	Metal coating and allied services	242.54	247.83	272.31	273.89	-	5.93	6.03	6.26	6.34	-
348	Ordnance and accessories, nec	276.89	284.14	292.99	297.14	-	6.82	6.88	7.38	7.41	-
3483	Ammunition, exc. for small arms, nec	248.96	256.40	263.58	274.13	-	6.40	6.41	6.90	6.94	-
349	Misc. fabricated metal products	261.63	268.06	272.64	283.22	-	6.46	6.57	7.10	7.17	-
3494	Valves and pipe fittings	276.74	286.59	292.20	305.29	-	6.85	6.99	7.57	7.69	-
3496	Misc. fabricated wire products	229.71	233.62	235.68	247.56	-	5.70	5.74	6.09	6.22	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	302.82	312.66	322.00	324.42	333.34	7.35	7.48	8.05	8.05	8.15
351	Engines and turbines	350.84	371.21	383.55	383.34	-	8.95	9.01	9.86	9.88	-
3511	Turbines and turbine generator sets	271.21	323.56	358.93	379.22	-	8.12	8.15	9.11	9.41	-
3519	Internal combustion engines, nec	371.59	383.97	391.49	383.77	-	9.13	9.23	10.09	10.02	-
352	Farm and garden machinery	332.38	344.68	391.82	375.07	-	7.99	8.11	9.58	9.33	-
3523	Farm machinery and equipment	341.43	357.73	406.43	390.19	-	8.11	8.30	9.77	9.54	-
353	Construction and related machinery	330.34	337.35	345.79	345.86	-	7.96	8.09	8.71	8.69	-

See footnotes at end of table.

## ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b>	41.8	41.7	40.3	40.7	41.1	4.8	4.8	3.6	3.9	-
321	Flat glass	42.0	40.8	40.2	42.5	-	4.2	3.5	3.6	3.8	-
322	Glass and glassware, pressed or blown	40.0	40.1	39.6	39.8	-	4.0	4.0	3.5	3.9	-
3221	Glass containers	40.3	40.2	40.3	41.2	-	4.3	4.3	4.0	4.6	-
3229	Pressed and blown glass, nec	39.6	40.0	38.6	37.8	-	3.7	3.7	2.9	2.8	-
323	Products of purchased glass	38.2	39.3	38.5	38.6	-	1.9	2.4	1.9	2.5	-
324	Cement, hydraulic	42.5	42.5	42.3	41.6	-	4.3	4.5	3.1	3.0	-
325	Structural clay products	41.0	41.3	38.3	39.9	-	4.2	4.3	2.7	2.9	-
326	Pottery and related products	38.4	39.2	37.1	39.1	-	2.5	2.7	1.8	2.7	-
327	Concrete, gypsum, and plaster products	44.5	43.8	42.2	42.3	-	7.1	6.8	5.1	5.4	-
3271	Concrete block and brick	45.3	44.2	43.7	43.0	-	7.3	6.8	5.3	4.6	-
3272	Concrete products, nec	43.0	42.1	41.5	42.0	-	6.2	5.6	4.1	4.7	-
3273	Ready-mixed concrete	45.0	44.5	42.1	41.9	-	7.5	7.4	5.6	5.8	-
329	Misc. nonmetallic mineral products	41.7	41.8	40.0	40.1	-	4.2	4.3	2.8	2.8	-
3291	Abrasive products	40.0	40.7	39.1	38.2	-	3.0	3.4	2.2	2.1	-
3292	Asbestos products	41.7	41.5	41.2	41.4	-	3.1	3.4	2.4	2.4	-
33	<b>PRIMARY METAL INDUSTRIES</b>	40.8	41.3	38.6	38.9	39.6	3.7	3.9	2.1	2.4	-
331	Blast furnace and basic steel products	40.5	41.0	37.9	38.0	-	3.4	3.5	1.4	1.7	-
3312	Blast furnaces and steel mills	40.3	40.9	37.8	37.7	-	3.3	3.3	1.3	1.6	-
3317	Steel pipe and tubes	41.3	41.7	37.1	39.4	-	3.4	4.0	1.9	2.4	-
332	Iron and steel foundries	40.3	40.6	38.7	38.8	-	3.4	3.6	2.2	2.4	-
3321	Gray iron foundries	39.6	40.0	38.5	38.7	-	3.0	3.0	1.9	2.2	-
3322	Malleable iron foundries	37.7	40.0	37.3	38.1	-	2.6	3.7	1.5	1.7	-
3325	Steel foundries, nec	42.4	43.0	39.0	39.0	-	4.5	5.0	2.7	2.7	-
333	Primary nonferrous metals	41.8	41.5	40.6	41.3	-	4.2	4.0	3.7	3.7	-
3334	Primary aluminum	41.9	40.6	42.0	41.4	-	4.2	4.0	3.9	3.9	-
335	Nonferrous rolling and drawing	42.4	43.0	40.3	40.7	-	5.0	5.4	3.1	3.6	-
3351	Copper rolling and drawing	42.9	43.2	39.4	39.3	-	5.5	5.8	1.8	2.7	-
3353	Aluminum sheet, plate and foil	41.9	42.6	40.1	41.3	-	6.3	6.6	4.8	5.5	-
3357	Nonferrous wire drawing and insulating	41.9	42.5	40.5	40.6	-	4.1	4.5	3.0	3.4	-
336	Nonferrous foundries	40.1	40.3	38.0	39.1	-	2.9	3.2	1.9	2.1	-
3361	Aluminum foundries	40.3	40.3	38.1	39.0	-	3.1	3.2	1.9	2.1	-
34	<b>FABRICATED METAL PRODUCTS</b>	40.5	40.8	39.2	39.9	40.3	3.3	3.6	2.4	2.5	-
341	Metal cans and shipping containers	44.6	44.4	44.0	43.7	-	5.7	5.7	4.4	4.8	-
3411	Metal cans	44.9	44.5	44.6	44.0	-	5.7	5.7	4.3	4.8	-
342	Cutlery, hand tools, and hardware	39.3	39.9	37.8	38.7	-	2.4	2.8	1.3	1.6	-
3423, 5	Hand and edge tools, and hand saws and blades	39.8	40.6	37.8	38.4	-	2.8	3.3	1.2	1.4	-
3429	Hardware, nec	38.9	39.4	37.6	38.9	-	2.1	2.4	1.2	1.5	-
343	Plumbing and heating, except electric	39.2	39.7	37.0	38.8	-	2.5	2.9	1.4	1.9	-
3432	Plumbing fittings and brass goods	40.3	39.9	37.3	38.8	-	3.1	2.6	1.0	1.6	-
3433	Heating equipment, except electric	38.3	39.3	36.4	38.6	-	2.1	3.1	1.7	2.1	-
344	Fabricated structural metal products	40.3	40.9	39.7	40.2	-	3.2	3.7	2.5	2.7	-
3441	Fabricated structural metal	41.3	41.5	40.5	41.8	-	3.8	4.0	3.3	3.4	-
3442	Metal doors, sash, and trim	39.9	40.4	39.2	40.2	-	3.0	3.4	2.3	2.5	-
3443	Fabricated plate work (boiler shops)	40.5	41.4	40.5	40.4	-	3.0	3.6	2.6	2.7	-
3444	Sheet metal work	39.4	40.0	38.7	39.0	-	3.0	3.5	2.3	2.5	-
3446	Architectural metal work	39.3	40.3	39.5	40.2	-	2.4	2.9	2.5	3.1	-
345	Screw machine products, bolts, etc.	41.6	42.3	38.9	39.6	-	4.4	4.6	2.5	2.8	-
3451	Screw machine products	41.6	42.1	38.1	38.7	-	4.6	4.9	2.7	2.8	-
3452	Bolts, nuts, rivets, and washers	41.6	42.6	39.8	40.5	-	4.2	4.4	2.3	2.8	-
346	Metal forgings and stampings	40.3	40.0	38.6	39.5	-	3.3	3.4	2.7	2.7	-
3462	Iron and steel forgings	38.3	39.0	37.6	38.1	-	3.1	3.8	2.6	2.8	-
3465	Automotive stampings	40.7	39.6	39.7	40.2	-	3.2	2.5	3.3	2.8	-
3469	Metal stampings, nec	40.8	40.9	38.2	39.6	-	3.4	3.7	2.1	2.4	-
347	Metal services, nec	39.9	40.0	40.1	40.7	-	3.6	3.7	3.1	2.1	-
3471	Plating and polishing	39.4	39.5	38.4	39.5	-	3.2	3.2	2.6	3.0	-
3479	Metal coating and allied services	40.9	41.1	43.5	43.2	-	4.5	4.9	4.0	3	-
348	Ordnance and accessories, nec	40.6	41.3	39.7	40.1	-	2.7	3.1	2.2	2.3	-
3483	Ammunition, exc. for small arms, nec	38.9	40.0	38.2	39.5	-	2.1	2.2	1.4	1.6	-
349	Misc. fabricated metal products	40.5	40.8	38.4	39.5	-	3.0	3.4	1.9	2.1	-
3494	Valves and pipe fittings	40.4	41.0	38.6	39.7	-	3.1	3.8	2.1	2.3	-
3496	Misc. fabricated wire products	40.3	40.7	38.7	39.8	-	3.2	3.4	1.6	2.2	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	41.2	41.8	40.0	40.3	40.9	3.7	4.1	2.7	3.0	-
351	Engines and turbines	39.2	41.2	38.9	38.8	-	3.0	3.5	1.4	1.9	-
3511	Turbines and turbine generator sets	33.4	39.7	39.4	40.3	-	3.0	3.7	3.6	4.2	-
3519	Internal combustion engines, nec	40.7	41.6	38.8	38.3	-	3.0	3.4	1.8	1.2	-
352	Farm and garden machinery	41.6	42.5	40.9	40.2	-	4.1	5.4	2.0	2.7	-
3523	Farm machinery and equipment	42.1	43.1	41.6	40.9	-	4.3	5.7	2.2	3.0	-
353	Construction and related machinery	41.5	41.7	39.7	39.8	-	3.3	3.6	2.4	2.7	-

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				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>											
3531	Construction machinery	\$361.79	\$365.25	\$372.24	\$367.48	-	\$8.76	\$8.92	\$9.77	\$9.62	-
3532	Mining machinery	329.47	326.66	337.50	336.87	-	7.92	7.94	8.48	8.55	-
3533	Oil field machinery	309.28	313.34	345.98	351.45	-	7.26	7.39	8.16	8.25	-
3535	Conveyers and conveying equipment	252.28	266.93	315.61	317.54	-	7.06	7.03	7.91	7.86	-
3537	Industrial trucks and tractors	266.96	256.70	294.34	297.59	-	7.21	7.25	7.87	7.77	-
354	Metalworking machinery	319.82	323.75	329.67	337.41	-	7.49	7.69	8.12	8.15	-
3541	Machine tools, metal cutting types	334.95	350.66	341.13	350.70	-	7.70	7.92	8.30	8.35	-
3542	Machine tools, metal forming types	310.00	327.93	340.28	341.02	-	7.75	7.97	8.77	8.59	-
3544	Special dies, tools, jigs, and fixtures	344.24	358.72	358.18	364.17	-	7.95	8.15	8.61	8.65	-
3545	Machine tool accessories	251.02	304.16	256.61	302.19	-	6.88	7.09	7.36	7.48	-
3546	Power driven hand tools	243.76	248.21	243.92	261.35	-	5.96	6.01	6.47	6.39	-
355	Special industry machinery	261.36	250.50	301.20	307.44	-	6.93	7.00	7.53	7.61	-
3551	Food products machinery	257.92	300.25	310.01	322.36	-	7.32	7.36	7.99	8.12	-
3552	Textile machinery	231.34	226.74	238.94	240.98	-	5.67	5.76	6.08	6.07	-
3555	Printing trades machinery	257.44	312.05	312.30	323.67	-	7.15	7.19	7.58	7.67	-
356	General industrial machinery	300.21	305.92	317.20	323.21	-	7.34	7.45	7.99	8.06	-
3561	Pumps and pumping equipment	256.94	360.98	309.08	324.39	-	7.25	7.45	8.07	8.13	-
3562	Ball and roller bearings	308.92	317.15	335.27	321.58	-	7.48	7.48	8.04	7.96	-
3563	Air and gas compressors	303.14	323.67	337.74	349.61	-	7.43	7.67	8.36	8.59	-
3564	Blowers and fans	270.95	280.85	295.73	304.03	-	6.69	6.85	7.32	7.47	-
3566	Speed changers, drives, and gears	347.11	360.47	358.58	366.30	-	8.11	8.23	8.92	9.00	-
3568	Power transmission equipment, nec	268.81	257.02	252.99	309.60	-	7.01	7.14	7.67	7.74	-
357	Office and computing machines	254.81	258.54	271.88	279.45	-	6.14	6.20	6.68	6.75	-
3573	Electronic computing equipment	260.41	264.81	272.95	280.54	-	6.23	6.29	6.69	6.76	-
358	Refrigeration and service machinery	265.20	271.08	275.87	283.48	-	6.63	6.71	7.11	7.25	-
3585	Refrigeration and heating equipment	272.33	275.53	282.57	289.64	-	6.76	6.82	7.19	7.37	-
359	Misc. machinery, except electrical	268.75	258.60	308.05	312.00	-	7.06	7.23	7.74	7.80	-
3592	Carburetors, pistons, rings, valves	330.88	343.62	348.30	349.68	-	8.19	8.26	9.19	9.13	-
3599	Machinery, except electrical, nec	281.26	250.05	302.35	305.92	-	6.86	7.04	7.54	7.61	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	252.89	262.04	267.96	274.48	\$284.33	6.37	6.47	6.96	7.02	\$7.18
361	Electric distributing equipment	246.31	260.50	271.87	272.97	-	6.22	6.48	7.08	7.09	-
3612	Transformers	235.17	247.23	272.74	270.51	-	5.85	6.15	6.94	6.99	-
3613	Switchgear and switchboard apparatus	254.67	270.95	270.72	274.94	-	6.53	6.74	7.20	7.16	-
362	Electrical industrial apparatus	258.89	268.06	279.50	281.30	-	6.44	6.57	7.13	7.25	-
3621	Motors and generators	253.60	265.28	287.52	286.38	-	6.34	6.55	7.17	7.25	-
3622	Industrial controls	264.14	272.80	271.36	279.17	-	6.62	6.67	7.03	7.27	-
363	Household appliances	253.50	262.91	251.62	275.60	-	6.50	6.54	6.97	7.14	-
3632	Household refrigerators and freezers	280.86	250.39	287.68	340.55	-	7.22	7.17	7.86	8.07	-
3633	Household laundry equipment	313.39	315.25	290.70	327.02	-	7.70	7.69	8.12	8.45	-
3634	Electric housewares and fans	206.03	214.66	216.71	230.06	-	5.31	5.38	5.81	5.96	-
364	Electric lighting and wiring equipment	220.26	239.40	245.89	250.13	-	5.80	5.97	6.42	6.48	-
3641	Electric lamps	259.37	268.37	277.25	292.93	-	6.42	6.61	7.22	7.36	-
3643	Current-carrying wiring devices	220.99	230.01	236.95	232.86	-	5.47	5.61	6.06	6.08	-
3644	Noncurrent-carrying wiring devices	234.14	241.02	264.80	264.52	-	6.05	6.18	6.86	6.80	-
3645	Residential lighting fixtures	178.26	176.70	179.78	187.82	-	4.63	4.65	5.05	5.09	-
365	Radio and TV receiving equipment	224.58	229.68	244.57	250.75	-	5.91	5.80	6.47	6.53	-
3651	Radio and TV receiving sets	227.71	234.78	253.46	252.97	-	6.04	6.02	6.67	6.71	-
366	Communication equipment	306.00	315.82	312.44	316.79	-	7.50	7.61	7.87	7.90	-
3661	Telephone and telegraph apparatus	327.76	335.54	319.12	320.80	-	7.86	7.97	8.12	8.02	-
3662	Radio and TV communication equipment	288.32	300.12	307.60	313.96	-	7.19	7.32	7.69	7.81	-
367	Electronic components and accessories	212.22	218.80	233.40	237.68	-	5.40	5.47	6.11	6.11	-
3671-3	Electronic tubes	273.38	268.84	303.11	312.98	-	6.75	6.91	7.54	7.56	-
3674	Semiconductors and related devices	247.65	254.62	258.06	266.26	-	6.13	6.18	6.90	6.88	-
3679	Electronic components, nec	156.95	201.22	222.69	224.04	-	5.05	5.12	5.71	5.73	-
369	Misc. electrical equipment and supplies	254.74	300.44	301.37	315.21	-	7.35	7.40	7.91	7.98	-
3691	Storage batteries	305.72	311.13	267.23	315.22	-	7.53	7.57	7.68	7.92	-
3694	Engine electrical equipment	319.20	324.82	334.21	347.26	-	8.02	8.08	8.96	8.95	-
37	<b>TRANSPORTATION EQUIPMENT</b>	342.23	349.61	368.93	373.60	385.97	8.45	8.55	9.34	9.34	\$9.53
371	Motor vehicles and equipment	358.40	365.22	360.98	381.22	-	8.96	9.04	9.87	9.80	-
3711	Motor vehicles and car bodies	351.64	352.69	413.18	402.42	-	9.89	9.72	10.76	10.76	-
3713	Truck and bus bodies	277.80	255.14	324.62	314.83	-	6.98	7.36	8.26	8.22	-
3714	Motor vehicle parts and accessories	351.08	356.00	366.27	382.59	-	8.69	8.79	9.44	9.47	-
3715,6	Truck trailers and motor homes	227.07	241.96	254.14	256.94	-	6.11	6.22	6.85	6.87	-
372	Aircraft and parts	345.27	354.89	362.23	391.46	-	8.26	8.37	9.30	9.41	-
3721	Aircraft	356.59	360.81	400.31	404.48	-	8.47	8.55	9.74	9.77	-
3724	Aircraft engines and engine parts	350.88	375.82	383.80	398.55	-	8.60	8.74	9.43	9.65	-
3728	Aircraft equipment, nec	315.56	320.30	344.03	360.40	-	7.46	7.59	8.31	8.50	-
373	Ship and boat building and repairing	293.27	288.32	330.42	335.37	-	7.35	7.45	8.24	8.24	-
3731	Shipbuilding and repairing	308.37	302.23	346.18	(*)	-	7.69	7.85	8.59	(*)	-
3732	Boat building and repairing	237.51	240.56	268.21	276.17	-	6.09	6.09	6.79	6.87	-
374	Railroad equipment	375.58	363.05	387.83	(*)	-	9.05	9.32	9.97	(*)	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>MACHINERY, EXCEPT ELECTRICAL—Continued</b>										
3531	Construction machinery	41.3	41.4	38.1	38.2	-	2.5	2.5	0.8	1.1	-
3532	Mining machinery	41.6	42.4	39.8	39.4	-	3.3	3.6	2.1	2.1	-
3533	Oil field machinery	42.6	42.4	42.4	42.6	-	4.5	4.8	5.2	5.0	-
3535	Conveyers and conveying equipment	41.4	41.1	39.9	40.4	-	4.0	3.5	3.0	2.5	-
3537	Industrial trucks and tractors	39.8	40.7	37.4	38.3	-	3.1	3.6	1.4	2.2	-
354	Metalworking machinery	42.7	43.4	40.6	41.4	-	5.3	5.6	3.8	3.9	-
3541	Machine tools, metal cutting types	43.5	44.3	41.1	42.0	-	5.8	6.4	4.8	4.8	-
3542	Machine tools, metal forming types	40.0	42.4	38.8	39.7	-	5.0	6.2	4.0	3.7	-
3544	Special dies, tools, jigs, and fixtures	43.3	43.8	41.6	42.1	-	5.5	5.7	4.4	4.4	-
3545	Machine tool accessories	42.3	42.9	40.3	40.4	-	5.3	5.4	3.2	3.3	-
3546	Power driven hand tools	40.9	41.3	37.7	40.9	-	3.9	4.1	1.4	2.3	-
356	Special industry machinery	40.6	41.5	40.0	40.4	-	3.4	3.9	2.8	2.9	-
3561	Food products machinery	40.7	40.8	38.8	39.7	-	2.9	3.5	1.9	2.2	-
3562	Textile machinery	40.8	41.1	39.3	39.7	-	2.4	3.1	1.8	1.9	-
3565	Printing trades machinery	41.6	43.4	41.2	42.2	-	4.1	4.5	3.5	4.1	-
356	General industrial machinery	40.9	41.6	39.7	40.1	-	3.7	4.2	2.9	2.9	-
3561	Pumps and pumping equipment	40.4	40.4	38.3	39.9	-	3.2	3.5	2.3	2.7	-
3562	Ball and roller bearings	41.3	42.4	41.7	40.4	-	4.2	4.5	4.2	3.0	-
3563	Air and gas compressors	40.8	42.2	40.4	40.7	-	3.3	4.6	3.9	3.8	-
3564	Blowers and fans	40.5	41.0	40.4	40.7	-	3.7	4.4	3.1	3.4	-
3566	Speed changers, drives, and gears	42.8	43.8	40.2	40.7	-	5.0	5.8	2.5	2.6	-
3568	Power transmission equipment, nec	41.2	41.6	38.2	40.0	-	3.8	4.0	2.0	2.8	-
357	Office and computing machines	41.5	41.7	40.7	41.4	-	2.7	3.0	2.3	2.8	-
3573	Electronic computing equipment	41.8	42.1	40.8	41.5	-	2.8	3.1	2.2	2.6	-
358	Refrigeration and service machinery	40.0	40.4	38.8	39.1	-	2.4	2.5	1.6	2.1	-
3585	Refrigeration and heating equipment	40.3	40.4	39.3	39.3	-	2.6	2.7	1.8	2.1	-
359	Misc. machinery, except electrical	40.9	41.3	39.8	40.0	-	4.0	4.2	3.2	3.4	-
3592	Carburetors, pistons, rings, valves	40.4	41.6	37.9	38.3	-	3.2	3.4	1.9	2.5	-
3599	Machinery, except electrical, nec	41.0	41.2	40.1	40.2	-	4.2	4.4	3.4	3.6	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	39.7	40.5	38.5	39.1	39.6	2.5	2.9	1.7	2.0	-
361	Electric distributing equipment	39.6	40.2	38.4	38.5	-	2.4	2.7	2.3	2.0	-
3612	Transformers	40.2	40.2	39.3	38.7	-	2.8	3.0	3.0	2.0	-
3613	Switchgear and switchboard apparatus	39.0	40.2	37.6	38.4	-	2.1	2.5	1.8	1.9	-
362	Electrical industrial apparatus	40.2	40.8	39.2	38.8	-	2.7	3.1	1.9	2.0	-
3621	Motors and generators	40.0	40.5	40.1	39.5	-	2.6	2.9	2.1	2.3	-
3622	Industrial controls	39.9	40.9	38.6	38.4	-	2.6	3.3	1.7	1.4	-
363	Household appliances	39.0	40.2	36.1	38.6	-	2.5	2.8	1.0	2.0	-
3632	Household refrigerators and freezers	38.9	40.5	36.6	42.2	-	2.6	2.6	1.5	2.4	-
3633	Household laundry equipment	40.7	41.0	35.8	38.7	-	1.7	1.7	.3	.5	-
3634	Electric housewares and fans	38.8	39.9	37.3	38.6	-	2.4	3.1	.8	2.5	-
364	Electric lighting and wiring equipment	39.7	40.1	38.3	38.6	-	2.4	2.7	1.4	1.8	-
3641	Electric lamps	40.4	40.6	38.4	39.8	-	1.8	2.4	1.1	1.5	-
3643	Current-carrying wiring devices	40.4	41.0	39.1	38.3	-	2.8	3.2	1.8	2.0	-
3644	Noncurrent-carrying wiring devices	38.7	39.0	38.6	38.9	-	2.1	2.3	1.1	1.5	-
3645	Residential lighting fixtures	38.5	38.0	35.6	36.9	-	2.1	2.0	.6	.7	-
365	Radio and TV receiving equipment	38.0	39.6	37.8	38.4	-	1.9	2.4	1.1	1.9	-
3651	Radio and TV receiving sets	37.7	39.0	38.0	37.7	-	1.5	1.7	1.3	1.5	-
366	Communication equipment	40.8	41.5	39.7	40.1	-	2.8	3.1	1.9	2.0	-
3661	Telephone and telegraph apparatus	41.7	42.1	39.3	40.0	-	3.4	3.6	1.7	1.7	-
3662	Radio and TV communication equipment	40.1	41.0	40.0	40.2	-	2.3	2.7	2.1	2.3	-
367	Electronic components and accessories	39.3	40.0	38.2	38.9	-	2.7	3.0	2.0	2.2	-
3671-3	Electronic tubes	40.5	41.8	40.2	41.4	-	2.0	2.4	2.1	2.3	-
3674	Semiconductors and related devices	40.4	41.2	37.4	38.7	-	3.6	4.1	2.2	2.6	-
3679	Electronic components, nec	39.0	39.3	39.0	39.1	-	2.5	2.7	2.1	2.2	-
369	Misc. electrical equipment and supplies	40.1	40.6	38.1	39.5	-	2.3	2.6	1.0	1.7	-
3691	Storage batteries	40.6	41.1	37.4	39.8	-	3.6	4.0	1.2	2.2	-
3694	Engine electrical equipment	39.8	40.2	37.3	38.8	-	1.6	1.9	.7	1.2	-
37	<b>TRANSPORTATION EQUIPMENT</b>	40.5	40.7	39.5	40.0	40.5	4.0	3.9	2.8	3.1	-
371	Motor vehicles and equipment	40.0	40.4	38.6	38.9	-	4.0	3.5	1.8	2.3	-
3711	Motor vehicles and car bodies	39.6	40.4	38.4	37.4	-	5.6	4.0	1.8	2.3	-
3713	Truck and bus bodies	39.8	40.1	39.3	38.3	-	3.3	3.6	2.3	1.9	-
3714	Motor vehicle parts and accessories	40.4	40.5	38.8	40.4	-	3.0	3.1	1.9	2.5	-
3715,6	Truck trailers and motor homes	38.8	38.9	37.1	37.4	-	2.1	2.5	.9	1.3	-
372	Aircraft and parts	41.8	42.4	41.1	41.6	-	4.4	4.8	3.9	4.0	-
3721	Aircraft	42.1	42.2	41.1	41.4	-	4.1	4.2	3.1	3.0	-
3724	Aircraft engines and engine parts	40.8	43.0	40.7	41.3	-	4.6	5.5	4.8	5.1	-
3728	Aircraft equipment, nec	42.3	42.2	41.4	42.4	-	4.9	5.5	4.5	4.7	-
373	Ship and boat building and repairing	39.9	38.7	40.1	40.7	-	3.4	3.6	3.7	3.9	-
3731	Ship building and repairing	40.1	38.5	40.3	(*)	-	3.7	4.0	3.8	(*)	-
3732	Boat building and repairing	39.0	39.5	39.5	40.2	-	2.5	2.6	3.3	3.4	-
374	Railroad equipment	41.5	41.1	38.9	(*)	-	5.1	4.7	3.0	(*)	-

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				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
376	Guided missiles, space vehicles, parts .....	\$344.03	\$356.12	\$363.40	\$375.72	-	\$8.27	\$8.54	\$9.20	\$9.30	-
3761	Guided missiles and space vehicles .....	346.10	360.26	366.43	380.42	-	8.36	8.66	9.23	9.37	-
379	Miscellaneous transportation equipment .....	288.73	260.66	272.64	265.87	-	6.55	6.65	7.10	6.87	-
3792	Travel trailers and campers .....	216.34	219.63	223.61	221.94	-	5.80	5.92	6.06	5.95	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	248.46	252.75	271.66	275.09	\$277.78	6.15	6.21	6.86	6.86	\$6.91
381	Engineering and scientific instruments .....	272.41	280.21	290.99	297.36	-	6.58	6.64	7.08	7.20	-
382	Measuring and controlling devices .....	252.96	259.79	279.50	280.26	-	6.20	6.26	6.97	6.92	-
3822	Environmental controls .....	254.61	256.16	245.48	252.49	-	5.88	5.86	6.46	6.36	-
3823	Process control instruments .....	254.20	274.05	294.80	281.48	-	6.17	6.33	6.84	6.75	-
3825	Instruments to measure electricity .....	271.58	274.48	302.13	304.03	-	6.56	6.63	7.46	7.47	-
383	Optical instruments and lenses .....	297.25	259.10	296.86	296.80	-	6.71	6.86	7.44	7.42	-
384	Medical instruments and supplies .....	200.06	204.86	222.34	228.34	-	5.21	5.28	5.79	5.87	-
3841	Surgical and medical instruments .....	165.08	150.22	215.90	225.67	-	4.77	4.89	5.55	5.67	-
3842	Surgical appliances and supplies .....	212.57	217.45	227.24	232.10	-	5.55	5.59	5.98	6.06	-
385	Ophthalmic goods .....	153.55	153.61	205.82	206.84	-	4.95	4.99	5.36	5.29	-
386	Photographic equipment and supplies .....	322.87	325.68	355.25	358.63	-	7.78	7.92	8.75	8.79	-
387	Watches, clocks, and watchcases .....	184.00	186.76	192.62	201.60	-	4.73	4.74	5.22	5.25	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	154.78	158.35	206.39	209.12	214.01	5.02	5.06	5.46	5.46	5.53
391	Jewelry, silverware, and plated ware .....	196.42	203.56	217.55	217.93	-	5.21	5.26	5.71	5.75	-
3911	Jewelry, precious metal .....	188.12	155.25	206.59	211.84	-	5.14	5.18	5.66	5.71	-
393	Musical instruments .....	204.31	205.10	200.34	211.03	-	5.02	5.10	5.40	5.51	-
394	Toys and sporting goods .....	175.49	180.64	186.73	189.36	-	4.57	4.62	4.94	4.97	-
3942, 4	Dolls, games, toys, and children's vehicles .....	170.23	172.66	174.43	177.18	-	4.41	4.45	4.74	4.75	-
3949	Sporting and athletic goods, nec .....	161.16	165.25	198.53	202.80	-	4.73	4.79	5.13	5.20	-
395	Pens, pencils, office and art supplies .....	215.54	217.35	222.83	221.03	-	5.27	5.25	5.67	5.61	-
396	Costume jewelry and notions .....	158.61	163.06	174.84	180.50	-	4.31	4.36	4.70	4.75	-
3961	Costume jewelry .....	147.65	153.22	170.37	167.90	-	4.09	4.13	4.46	4.55	-
399	Miscellaneous manufactures .....	220.97	221.03	226.13	232.37	-	5.58	5.61	6.03	6.02	-
3993	Signs and advertising displays .....	230.49	229.70	240.31	243.33	-	5.91	5.92	6.46	6.37	-
<b>NONDURABLE GOODS</b>											
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	253.08	256.59	274.91	278.76	280.19	6.28	6.32	6.89	6.90	6.97
201	Meat products .....	260.25	262.04	273.08	274.17	-	6.41	6.47	7.02	7.03	-
2011	Meat packing plants .....	328.13	331.43	350.02	350.02	-	7.85	7.91	8.60	8.60	-
2013	Sausages and other prepared meats .....	308.15	311.36	324.37	326.38	-	7.59	7.65	8.15	8.18	-
2016	Poultry dressing plants .....	165.51	164.58	165.52	165.52	-	4.19	4.22	4.51	4.51	-
202	Dairy products .....	263.96	265.80	289.91	290.64	-	6.33	6.47	6.87	6.92	-
2022	Cheese, natural and processed .....	244.62	245.49	266.59	269.69	-	6.04	6.18	6.55	6.61	-
2026	Fluid milk .....	276.64	288.14	307.16	305.02	-	6.54	6.67	7.16	7.16	-
203	Preserved fruits and vegetables .....	222.40	225.07	230.65	255.65	-	5.56	5.56	5.96	6.19	-
2032	Canned specialties .....	279.07	282.83	248.57	268.91	-	6.49	6.37	6.81	6.86	-
2033	Canned fruits and vegetables .....	223.18	231.30	240.77	272.00	-	5.65	5.56	6.08	6.37	-
2037	Frozen fruits and vegetables .....	207.83	223.93	215.84	228.90	-	5.17	5.37	5.71	5.68	-
204	Grain mill products .....	303.72	306.60	331.68	335.82	-	6.95	7.00	7.66	7.72	-
2041	Flour and other grain mill products .....	328.39	346.39	360.50	367.21	-	7.17	7.37	7.82	7.88	-
2048	Prepared feeds, nec .....	251.30	255.11	271.48	268.55	-	5.66	5.72	6.17	6.26	-
205	Bakery products .....	254.53	261.97	281.74	279.51	-	6.56	6.70	7.28	7.26	-
2051	Bread, cake, and related products .....	255.92	261.23	285.29	282.27	-	6.63	6.75	7.41	7.37	-
2052	Cookies and crackers .....	250.58	263.71	270.87	273.53	-	6.36	6.56	6.91	6.96	-
206	Sugar and confectionery products .....	240.95	240.19	262.01	263.86	-	6.10	6.05	6.65	6.58	-
2061-3	Cane and beet sugar .....	288.86	257.82	344.04	351.27	-	7.35	7.39	8.29	8.15	-
2065	Confectionery products .....	213.25	205.97	220.99	222.69	-	5.44	5.37	5.74	5.71	-
207	Fats and oils .....	293.23	252.08	305.02	312.18	-	6.71	6.73	7.16	7.26	-
208	Beverages .....	310.65	312.42	344.77	346.51	-	7.54	7.62	8.17	8.27	-
2082	Malt beverages .....	422.60	427.45	450.60	487.69	-	10.30	10.30	11.00	11.16	-
2086	Bottled and canned soft drinks .....	231.28	228.42	260.20	262.92	-	5.60	5.64	6.21	6.29	-
209	Misc. foods and kindred products .....	201.82	205.53	229.90	228.27	-	5.44	5.54	5.91	5.96	-
21	<b>TOBACCO MANUFACTURES</b> .....	244.78	252.06	254.19	285.64	282.73	6.51	6.43	8.06	7.72	7.46
211	Cigarettes .....	301.34	316.91	337.59	357.20	-	7.93	8.21	9.30	9.50	-
22	<b>TEXTILE MILL PRODUCTS</b> .....	192.23	156.66	154.81	202.02	208.55	4.77	4.82	5.06	5.18	5.24
221	Weaving mills, cotton .....	208.75	213.53	205.41	214.49	-	5.03	5.06	5.24	5.43	-
222	Weaving mills, synthetics .....	204.93	213.69	213.86	221.13	-	5.06	5.10	5.36	5.46	-
223	Weaving and finishing mills, wool .....	152.85	156.26	208.03	211.73	-	4.87	4.87	5.28	5.28	-
224	Narrow fabric mills .....	171.83	174.40	182.62	182.42	-	4.35	4.36	4.60	4.63	-
225	Knitting mills .....	170.67	171.83	178.02	182.57	-	4.41	4.44	4.76	4.83	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
<b>TRANSPORTATION EQUIPMENT—Continued</b>											
76	Guided missiles, space vehicles, parts .....	41.6	41.7	39.5	40.4	-	4.5	5.0	3.1	3.5	-
761	Guided missiles and space vehicles .....	41.4	41.6	39.7	40.6	-	3.9	4.4	2.8	3.3	-
79	Miscellaneous transportation equipment .....	39.5	39.2	38.4	38.7	-	1.4	1.5	1.5	1.9	-
792	Travel trailers and campers .....	37.3	37.1	36.9	37.3	-	1.0	1.0	1.2	1.7	-
<b>INSTRUMENTS AND RELATED PRODUCTS</b>											
8	Engineering and scientific instruments .....	40.4	40.7	39.6	40.1	40.2	2.4	2.8	1.8	2.2	-
81	Measuring and controlling devices .....	41.4	42.2	41.1	41.3	-	3.6	4.3	2.6	3.3	-
82	Environmental controls .....	40.8	41.5	40.1	40.5	-	2.4	2.9	1.7	2.2	-
822	Process control instruments .....	39.9	40.3	38.0	39.7	-	1.8	2.0	1.1	1.9	-
823	Instruments to measure electricity .....	41.2	43.3	43.1	41.7	-	2.7	3.9	3.3	3.2	-
825	Optical instruments and lenses .....	41.4	41.4	40.5	40.7	-	2.1	2.4	1.2	1.9	-
83	Medical instruments and supplies .....	44.3	43.6	39.9	40.0	-	4.0	3.6	2.6	2.9	-
84	Surgical and medical instruments .....	38.4	38.8	38.4	38.9	-	1.8	2.0	1.4	1.8	-
841	Surgical appliances and supplies .....	38.8	38.9	38.9	39.8	-	2.1	2.4	1.2	1.9	-
842	Ophthalmic goods .....	38.3	38.5	38.0	38.3	-	1.7	1.9	1.7	2.0	-
85	Photographic equipment and supplies .....	39.1	38.8	38.4	39.1	-	1.9	1.9	1.3	1.6	-
86	Watches, clocks, and watchcases .....	41.5	41.5	40.6	40.8	-	2.5	3.1	2.2	2.5	-
87		38.9	39.4	36.9	38.4	-	1.2	2.0	.6	1.1	-
<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>											
9	Jewelry, silverware, and plated ware .....	38.8	39.2	37.8	38.3	38.7	2.2	2.6	1.3	1.7	-
91	Jewelry, precious metal .....	37.7	38.7	38.1	37.9	-	1.9	2.4	.8	1.4	-
911	Musical instruments .....	36.6	37.7	36.5	37.1	-	1.5	2.2	.8	1.4	-
93	Toys and sporting goods .....	40.7	41.0	37.1	38.3	-	2.2	2.3	.8	1.0	-
94	Dolls, games, toys, and children's vehicles .....	38.4	39.1	37.8	38.1	-	1.9	2.4	1.0	1.6	-
942, 4	Sporting and athletic goods, nec .....	38.6	38.8	36.8	37.3	-	1.9	2.3	.7	1.5	-
949	Pens, pencils, office and art supplies .....	38.3	39.3	38.7	39.0	-	1.9	2.5	1.3	1.7	-
95	Costume jewelry and notions .....	40.9	41.4	39.3	39.4	-	3.2	3.5	2.2	2.4	-
96	Costume jewelry .....	36.8	37.4	37.2	38.0	-	1.9	2.0	1.1	1.8	-
961	Miscellaneous manufactures .....	36.1	37.1	38.2	36.9	-	1.7	1.8	.9	1.1	-
99	Signs and advertising displays .....	39.6	39.4	37.5	38.6	-	2.6	2.8	1.5	1.8	-
993		39.0	38.8	37.2	38.2	-	2.5	2.9	1.8	2.3	-
<b>NONDURABLE GOODS</b>											
<b>FOOD AND KINDRED PRODUCTS</b>											
0	Meat products .....	40.3	40.6	39.9	40.4	40.2	4.5	4.8	4.0	4.4	-
01	Meat packing plants .....	40.6	40.5	38.9	39.0	-	4.5	4.7	3.5	3.6	-
011	Sausages and other prepared meats .....	41.8	41.9	40.7	40.7	-	5.3	5.5	4.4	4.5	-
013	Poultry dressing plants .....	40.6	40.7	39.8	39.9	-	3.8	4.5	2.9	3.1	-
016	Dairy products .....	39.5	39.0	36.7	36.7	-	4.1	4.1	2.6	2.6	-
02	Cheese, natural and processed .....	41.7	41.7	42.2	42.0	-	4.3	4.4	4.6	4.5	-
022	Fluid milk .....	40.5	39.4	40.7	40.8	-	4.1	3.5	3.9	3.9	-
026	Preserved fruits and vegetables .....	42.3	42.2	42.9	42.6	-	4.4	4.9	4.9	4.8	-
03	Canned specialties .....	40.0	41.2	38.7	41.3	-	5.4	6.1	4.3	6.1	-
032	Canned fruits and vegetables .....	43.0	44.4	36.5	39.2	-	6.7	8.2	4.0	5.2	-
033	Frozen fruits and vegetables .....	39.5	41.6	39.6	42.7	-	6.1	7.1	5.3	7.3	-
037	Grain mill products .....	40.2	41.7	37.8	40.3	-	4.9	6.0	3.0	5.5	-
34	Flour and other grain mill products .....	43.7	43.8	43.3	43.5	-	6.3	6.8	5.8	5.7	-
341	Prepared feeds, nec .....	45.8	47.0	46.1	46.6	-	7.3	8.6	6.8	6.8	-
348	Bakery products .....	44.4	44.6	44.0	42.9	-	6.6	7.3	6.9	6.4	-
35	Bread, cake, and related products .....	38.8	39.1	38.7	38.5	-	3.2	3.6	3.4	3.2	-
351	Cookies and crackers .....	38.6	38.7	38.5	38.3	-	3.5	4.0	3.8	3.5	-
352	Sugar and confectionery products .....	39.4	40.2	39.2	39.3	-	2.3	2.5	2.2	2.4	-
36	Cane and beet sugar .....	39.5	39.7	39.4	40.1	-	3.1	3.2	2.2	2.9	-
361-3	Confectionery products .....	39.3	40.3	41.5	43.1	-	3.3	4.1	2.8	3.3	-
365	Fats and oils .....	39.2	39.1	38.5	39.0	-	3.0	2.8	1.9	2.8	-
37	Beverages .....	43.7	43.4	42.6	43.0	-	5.9	5.9	5.2	5.4	-
38	Malt beverages .....	41.2	41.0	42.2	41.9	-	4.3	4.4	4.9	4.8	-
382	Bottled and canned soft drinks .....	42.0	41.5	44.6	43.7	-	5.5	5.1	6.5	6.3	-
386	Misc. foods and kindred products .....	41.3	40.5	41.9	41.8	-	4.6	4.3	4.9	5.0	-
39		37.1	37.1	38.9	38.3	-	3.1	3.3	3.8	3.7	-
<b>TOBACCO MANUFACTURES</b>											
1	Cigarettes .....	37.6	39.2	36.5	37.0	37.9	1.4	2.2	.9	1.8	-
		38.0	38.6	36.3	37.6	-	1.3	2.6	.8	2.0	-
<b>TEXTILE MILL PRODUCTS</b>											
2	Weaving mills, cotton .....	40.3	40.8	38.5	39.0	39.8	3.5	3.8	2.4	2.7	-
2	Weaving mills, synthetics .....	41.5	42.2	39.2	39.5	-	4.3	4.8	3.1	3.4	-
3	Weaving and finishing mills, wool .....	40.5	41.9	39.9	40.5	-	3.4	4.0	2.8	3.0	-
3	Narrow fabric mills .....	39.6	40.3	39.4	40.1	-	3.3	3.1	2.2	2.4	-
4	Knitting mills .....	39.5	40.0	39.7	39.4	-	2.5	2.4	1.6	2.2	-
5		38.7	38.7	37.4	37.8	-	2.8	2.7	2.1	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				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
<b>TEXTILE MILL PRODUCTS—Continued</b>											
2251	Women's hosiery, except socks	\$166.21	\$163.20	\$157.88	\$164.89	-	\$4.24	\$4.25	\$4.41	\$4.53	-
2252	Hosiery, nec	156.11	153.09	161.37	167.81	-	4.13	4.16	4.47	4.56	-
2253	Knit outerwear mills	165.35	169.95	178.04	181.93	-	4.34	4.37	4.71	4.75	-
2254	Knit underwear mills	144.84	146.58	169.55	165.24	-	4.08	4.14	4.57	4.59	-
2257	Circular knit fabric mills	158.21	158.13	214.12	219.64	-	4.87	4.88	5.38	5.45	-
226	Textile finishing, except wool	206.23	217.18	158.69	211.69	-	5.03	5.11	5.37	5.47	-
2261	Finishing plants, cotton	214.76	222.60	193.28	211.12	-	5.20	5.25	5.46	5.60	-
2262	Finishing plants, synthetics	212.49	226.61	214.62	223.68	-	5.17	5.27	5.56	5.62	-
227	Floor covering mills	205.94	205.76	201.93	210.67	-	4.88	4.97	5.30	5.32	-
228	Yarn and thread mills	181.44	185.73	182.02	187.39	-	4.48	4.53	4.74	4.88	-
2281	Yarn mills, except wool	184.01	189.24	185.08	187.94	-	4.51	4.56	4.77	4.92	-
2282	Throwing and winding mills	169.92	173.96	167.32	177.25	-	4.28	4.36	4.51	4.64	-
229	Miscellaneous textile goods	210.53	212.16	213.79	231.58	-	5.16	5.20	5.44	5.69	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	149.88	150.73	158.85	162.38	\$165.09	4.21	4.27	4.50	4.60	\$4.69
231	Men's and boys' suits and coats	181.71	176.11	196.04	188.48	-	5.09	5.09	5.27	5.25	-
232	Men's and boys' furnishings	140.87	143.02	152.57	152.94	-	3.87	3.94	4.18	4.19	-
2321	Men's and boys' shirts and nightwear	137.64	140.16	148.15	148.96	-	3.73	3.84	4.07	4.07	-
2327	Men's and boys' separate trousers	140.94	135.78	150.03	148.09	-	3.97	4.04	4.25	4.28	-
2328	Men's and boys' work clothing	141.73	144.01	152.56	153.26	-	3.81	3.83	4.09	4.12	-
233	Women's and misses' outerwear	142.04	142.99	153.31	153.58	-	4.24	4.32	4.59	4.64	-
2331	Women's and misses' blouses and waists	133.91	132.80	147.77	145.77	-	3.95	4.00	4.21	4.30	-
2335	Women's and misses' dresses	139.64	141.07	146.01	149.62	-	4.35	4.45	4.71	4.72	-
2337	Women's and misses' suits and coats	158.47	156.58	175.55	173.57	-	4.58	4.66	5.03	5.12	-
2339	Women's and misses' outerwear, nec	141.86	142.65	152.39	151.98	-	4.10	4.16	4.43	4.47	-
234	Women's and children's undergarments	141.68	141.93	145.38	151.79	-	3.85	3.91	4.13	4.17	-
2341	Women's and children's underwear	140.23	140.14	144.84	151.25	-	3.79	3.85	4.08	4.11	-
2342	Brassieres and allied garments	147.85	147.74	147.61	155.01	-	4.13	4.15	4.38	4.48	-
236	Children's outerwear	138.24	138.16	151.56	150.90	-	3.84	3.87	4.21	4.18	-
2361	Children's dresses and blouses	133.60	135.72	149.03	145.60	-	3.53	3.77	4.21	4.16	-
238	Misc. apparel and accessories	149.65	152.26	159.04	158.59	-	4.10	4.16	4.48	4.48	-
239	Misc. fabricated textile products	178.89	183.74	178.00	202.71	-	4.72	4.81	4.85	5.42	-
2391	Curtains and draperies	140.62	143.64	142.10	145.66	-	3.77	3.80	4.06	4.08	-
2392	House furnishing, nec	163.77	165.00	163.60	173.80	-	4.21	4.22	4.47	4.61	-
2396	Automotive and apparel trimmings	278.63	251.78	280.80	324.60	-	7.45	7.52	7.37	8.61	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	308.42	312.99	329.96	333.98	335.24	7.24	7.33	7.97	7.99	8.02
261, 262	Paper and pulp mills	378.45	382.22	409.25	408.71	-	8.41	8.57	9.28	9.31	-
262	Paper mills, except building paper	380.91	383.85	410.32	408.85	-	8.39	8.53	9.20	9.25	-
263	Paperboard mills	366.34	363.24	417.19	412.60	-	8.48	8.71	9.46	9.42	-
264	Misc. converted paper products	262.86	264.66	275.62	281.00	-	6.38	6.44	6.96	6.99	-
2641	Paper coating and glazing	310.64	315.08	299.83	308.25	-	7.06	7.21	7.61	7.63	-
2642	Envelopes	233.20	236.21	243.36	250.11	-	5.83	5.92	6.24	6.30	-
2643	Bags, except textile bags	250.88	251.74	270.91	273.88	-	6.06	6.14	6.64	6.68	-
265	Paperboard containers and boxes	268.09	274.72	278.20	287.45	-	6.46	6.51	6.99	7.08	-
2651	Folding paperboard boxes	272.24	275.16	293.25	299.01	-	6.56	6.60	7.17	7.24	-
2653	Corrugated and solid fiber boxes	263.82	253.18	288.55	303.73	-	6.79	6.85	7.25	7.39	-
2654	Sanitary food containers	253.80	257.79	261.89	276.81	-	6.00	6.08	6.63	6.67	-
27	<b>PRINTING AND PUBLISHING</b>	264.54	268.33	277.10	283.84	288.70	6.98	7.08	7.53	7.63	7.74
271	Newspapers	252.62	253.31	256.03	257.81	-	7.28	7.30	7.62	7.65	-
272	Periodicals	240.46	247.41	264.61	266.75	-	6.43	6.58	7.21	7.19	-
273	Books	247.04	247.29	257.34	271.05	-	6.27	6.39	6.79	6.95	-
2731	Book publishing	237.20	235.01	254.26	264.10	-	5.93	6.12	6.57	6.72	-
2732	Book printing	256.74	259.35	261.18	277.87	-	6.60	6.65	7.04	7.18	-
274	Miscellaneous publishing	225.22	223.13	238.88	250.29	-	5.99	6.13	6.37	6.82	-
275	Commercial printing	283.53	288.56	298.58	307.55	-	7.27	7.38	7.92	8.03	-
2751	Commercial printing, letterpress	262.57	267.26	277.88	284.63	-	6.82	6.96	7.43	7.51	-
2752	Commercial printing, lithographic	254.71	259.77	306.99	318.84	-	7.48	7.57	8.10	8.26	-
276	Manifold business forms	276.48	279.21	292.53	293.04	-	6.76	6.81	7.35	7.40	-
278	Blankbooks and bookbinding	202.90	208.74	223.69	222.15	-	5.27	5.38	5.78	5.77	-
279	Printing trade services	345.47	351.12	354.75	362.14	-	9.02	9.12	9.46	9.53	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	320.19	323.53	339.85	342.74	352.77	7.66	7.74	8.35	8.38	8.48
281	Industrial inorganic chemicals	348.61	357.01	376.07	377.51	-	8.36	8.48	9.15	9.23	-
2819	Industrial inorganic chemicals, nec	349.42	356.14	376.18	376.53	-	8.44	8.52	9.22	9.32	-
282	Plastics materials and synthetics	314.75	315.40	335.30	338.22	-	7.53	7.60	8.32	8.31	-
2821	Plastics materials and resins	346.50	351.94	366.71	371.77	-	8.25	8.32	9.01	8.98	-
2824	Organic fibers, noncellulosic	290.50	250.69	310.82	310.80	-	7.00	7.09	7.79	7.77	-
283	Drugs	284.95	252.99	307.57	313.84	-	6.95	7.06	7.67	7.73	-
2834	Pharmaceutical preparations	273.36	281.11	290.33	298.10	-	6.80	6.89	7.38	7.49	-

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				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
<b>TEXTILE MILL PRODUCTS—Continued</b>											
2251	Women's hosiery, except socks	39.2	38.4	35.8	36.4	-	3.7	3.1	1.4	1.3	-
2252	Hosiery, nec	37.8	36.8	36.1	36.8	-	2.2	1.9	1.6	1.9	-
2253	Knit outerwear mills	38.1	38.9	37.8	38.3	-	2.3	2.5	2.4	2.6	-
2254	Knit underwear mills	35.5	35.4	37.1	36.0	-	1.1	1.0	1.4	1.3	-
2257	Circular knit fabric mills	40.7	40.6	39.8	40.3	-	3.9	4.1	3.5	4.0	-
226	Textile finishing, except wool	41.0	42.5	37.0	38.7	-	3.4	4.3	2.1	2.7	-
2261	Finishing plants, cotton	41.3	42.4	35.4	37.7	-	3.1	4.0	2.0	2.5	-
2262	Finishing plants, synthetics	41.1	43.0	38.6	39.8	-	4.1	4.8	2.3	3.1	-
227	Floor covering mills	42.2	41.4	38.1	39.6	-	5.0	5.1	2.5	3.2	-
228	Yarn and thread mills	40.5	41.0	38.4	38.4	-	3.6	3.9	2.5	2.5	-
2281	Yarn mills, except wool	40.8	41.5	38.8	38.2	-	3.8	4.2	2.7	2.4	-
2282	Throwing and winding mills	39.7	39.9	37.1	38.2	-	3.4	3.2	2.2	3.2	-
229	Miscellaneous textile goods	40.8	40.8	39.3	40.7	-	3.5	3.6	2.1	2.7	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	35.6	35.3	35.3	35.3	35.2	1.1	1.2	.8	1.1	-
231	Men's and boys' suits and coats	35.7	34.6	37.2	35.9	-	.6	.6	.8	.7	-
232	Men's and boys' furnishings	36.4	36.3	36.5	36.5	-	1.1	1.2	.8	1.1	-
2321	Men's and boys' shirts and nighwear	36.9	36.5	36.4	36.6	-	1.1	1.2	.9	1.2	-
2327	Men's and boys' separate trousers	35.5	34.6	35.3	34.6	-	1.1	1.2	.6	.7	-
2328	Men's and boys' work clothing	37.2	37.6	37.3	37.2	-	1.2	1.3	1.1	1.3	-
233	Women's and misses' outerwear	33.5	33.1	33.4	33.1	-	.9	.9	.7	.9	-
2331	Women's and misses' blouses and waists	33.9	33.2	35.1	33.9	-	.7	.6	.7	.9	-
2335	Women's and misses' dresses	32.1	31.7	31.0	31.7	-	.9	.9	.6	.8	-
2337	Women's and misses' suits and coats	34.6	33.6	34.9	33.9	-	1.2	1.0	.9	1.0	-
2339	Women's and misses' outerwear, nec	34.6	34.3	34.4	34.0	-	.9	.9	.7	1.1	-
234	Women's and children's undergarments	36.8	36.3	35.2	36.4	-	1.5	1.4	.8	.9	-
2341	Women's and children's underwear	37.0	36.4	35.5	36.8	-	1.5	1.5	.9	1.0	-
2342	Brassieres and allied garments	35.8	35.6	33.7	34.6	-	1.3	1.2	.5	.6	-
236	Children's outerwear	36.0	35.7	36.0	36.1	-	1.7	1.1	.8	1.5	-
2361	Children's dresses and blouses	34.7	36.0	35.4	35.0	-	1.0	1.0	.9	.8	-
238	Misc. apparel and accessories	36.5	36.6	35.5	35.4	-	1.1	1.5	.7	1.0	-
239	Misc. fabricated textile products	37.9	38.2	36.7	37.4	-	1.6	1.7	.9	1.4	-
2391	Curtains and draperies	37.3	37.6	35.0	35.7	-	1.1	.9	.3	.3	-
2392	House furnishings, nec	38.9	39.1	36.6	37.7	-	2.1	2.7	1.2	1.5	-
2396	Automotive and apparel trimmings	37.4	38.8	38.1	37.7	-	1.5	1.5	1.2	2.5	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	42.6	42.7	41.4	41.8	41.8	5.0	5.2	4.2	4.3	-
261, 2, 6	Paper and pulp mills	45.0	44.6	44.1	43.9	-	6.8	7.0	6.9	6.2	-
262	Paper mills, except building paper	45.4	45.0	44.6	44.2	-	6.9	7.1	7.0	6.3	-
263	Paperboard mills	43.2	44.0	44.1	43.8	-	6.9	7.2	7.2	7.1	-
264	Misc. converted paper products	41.2	41.1	39.6	40.2	-	3.7	3.7	2.5	2.9	-
2641	Paper coating and glazing	44.0	43.7	39.4	40.4	-	5.1	4.9	2.5	3.1	-
2642	Envelopes	40.0	39.9	39.0	39.7	-	3.1	3.2	1.7	2.2	-
2643	Bags, except textile bags	41.4	41.0	40.8	41.0	-	3.5	3.7	2.6	3.2	-
265	Paperboard containers and boxes	41.5	42.2	39.8	40.6	-	4.0	4.3	2.3	2.8	-
2651	Folding paperboard boxes	41.5	42.3	40.9	41.3	-	3.8	4.0	3.5	3.8	-
2653	Corrugated and solid fiber boxes	41.8	42.8	39.8	41.1	-	4.5	5.1	1.7	2.6	-
2654	Sanitary food containers	42.3	42.4	39.5	41.5	-	3.5	3.7	3.0	3.3	-
27	<b>PRINTING AND PUBLISHING</b>	37.9	37.9	36.8	37.2	37.3	3.0	3.2	2.2	2.5	-
271	Newspapers	34.7	34.7	33.6	33.7	-	2.0	2.2	1.5	1.8	-
272	Periodicals	37.4	37.6	36.7	37.1	-	2.1	2.4	2.3	2.0	-
273	Books	39.4	38.7	37.9	39.0	-	3.8	3.4	2.2	2.8	-
2731	Book publishing	40.0	38.4	38.7	39.3	-	2.7	1.9	1.2	1.8	-
2732	Book printing	38.9	39.0	37.1	38.7	-	4.8	3.0	3.2	3.8	-
274	Miscellaneous publishing	37.6	36.4	37.5	36.7	-	2.2	2.1	2.0	2.1	-
275	Commercial printing	39.0	39.1	37.7	38.3	-	3.6	3.9	2.5	3.0	-
2751	Commercial printing, letterpress	38.5	38.4	37.4	37.9	-	3.1	3.3	2.1	2.4	-
2752	Commercial printing, lithographic	39.4	39.6	37.9	38.6	-	3.9	4.3	2.7	3.3	-
276	Manifold business forms	40.9	41.0	35.8	39.6	-	3.4	3.7	2.6	2.3	-
278	Blankbooks and bookbinding	38.5	38.8	38.7	38.5	-	2.1	2.6	1.9	1.7	-
279	Printing trade service	38.3	38.5	37.5	38.0	-	4.1	4.1	3.6	4.0	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	41.8	41.8	40.7	40.9	41.6	3.5	3.7	2.8	2.9	-
281	Industrial inorganic chemicals	41.7	42.1	41.1	40.9	-	3.7	4.0	2.9	2.9	-
2819	Industrial inorganic chemicals, nec	41.4	41.8	40.8	40.4	-	3.4	3.7	2.9	2.7	-
282	Plastics materials and synthetics	41.8	41.5	40.3	40.7	-	3.4	3.2	2.4	2.4	-
2821	Plastics materials and resins	42.0	42.3	40.7	41.4	-	4.2	4.3	3.0	3.3	-
2824	Organic fibers, noncellulosic	41.5	41.0	39.9	40.0	-	2.7	2.4	1.7	1.5	-
283	Drugs	41.0	41.5	40.1	40.6	-	2.4	2.9	2.6	2.8	-
2834	Pharmaceutical preparations	40.2	40.8	39.3	39.8	-	2.3	2.9	2.6	2.9	-

See footnotes at end of table.



# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods	\$255.10	\$254.79	\$303.64	\$302.80	-	\$7.18	\$7.19	\$7.61	\$7.57	-
2841	Soap and other detergents	420.85	412.28	430.57	421.16	-	9.50	9.37	9.99	9.98	-
2844	Toilet preparations	223.26	229.70	233.53	233.84	-	5.71	5.83	6.05	5.95	-
2842, 3	Polishing, sanitation, and finishing preparations	262.85	263.06	270.51	277.92	-	6.49	6.56	7.10	7.20	-
285	Paints and allied products	281.11	281.24	291.80	299.55	-	6.79	6.91	7.35	7.47	-
286	Industrial organic chemicals	354.94	355.81	408.79	411.03	-	9.10	9.12	9.71	9.74	-
2865	Cyclic crudes and intermediates	367.16	362.94	369.82	369.22	-	8.46	8.48	8.89	8.94	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	404.92	407.66	422.15	425.00	-	9.33	9.35	9.98	10.00	-
287	Agricultural chemicals	315.67	320.57	351.48	358.22	-	7.41	7.49	8.27	8.35	-
289	Miscellaneous chemical products	254.06	302.33	313.60	316.71	-	7.12	7.25	7.84	7.82	-
	<b>PETROLEUM AND COAL PRODUCTS</b>	407.22	424.65	437.68	427.14	\$442.80	9.34	9.50	10.25	10.17	\$10.25
29	Petroleum refining	434.16	455.62	470.37	455.62	-	10.05	10.17	10.99	10.90	-
291	Paving and roofing materials	339.02	343.07	334.62	337.04	-	7.37	7.54	7.80	7.82	-
	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b>	237.60	244.22	250.13	263.46	268.00	5.94	6.03	6.48	6.57	6.65
30	Tires and inner tubes	347.49	363.38	362.45	408.22	-	8.58	8.82	9.93	10.03	-
302	Rubber and plastics footwear	157.08	163.49	187.44	183.10	-	4.08	4.16	4.40	4.37	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	256.67	269.24	287.15	288.54	-	6.17	6.38	7.09	6.87	-
306	Fabricated rubber products, nec	230.62	232.93	236.12	246.80	-	5.78	5.78	6.23	6.28	-
307	Miscellaneous plastics products	218.80	223.82	233.01	241.00	-	5.47	5.54	5.99	6.04	-
	<b>LEATHER AND LEATHER PRODUCTS</b>	154.09	157.87	165.26	170.11	168.07	4.21	4.29	4.54	4.61	4.63
31	Leather tanning and finishing	213.56	219.45	231.27	243.10	-	5.62	5.70	5.93	6.17	-
314	Footwear, except rubber	148.47	151.48	158.70	163.76	-	4.09	4.15	4.36	4.45	-
3143	Men's footwear, except athletic	158.84	165.24	167.90	174.09	-	4.27	4.36	4.60	4.63	-
3144	Women's footwear, except athletic	140.34	140.94	153.24	158.78	-	3.92	3.97	4.21	4.35	-
316	Luggage	160.00	173.07	193.67	196.32	-	4.42	4.64	5.11	5.18	-
317	Handbags and personal leather goods	151.53	152.93	147.31	152.77	-	4.03	4.10	4.32	4.34	-
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	334.89	336.76	355.11	358.09	357.50	8.31	8.44	8.90	8.93	8.96
	<b>RAILROAD TRANSPORTATION:</b>										
4011	Class I railroads	405.84	355.40	440.80	-	-	9.12	9.26	10.11	-	-
	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b>	236.25	211.06	247.30	248.77	-	6.30	6.10	6.72	6.76	-
411	Local and suburban transportation	289.05	274.91	285.02	282.89	-	7.05	6.89	7.09	7.09	-
413	Intercity highway transportation	357.19	363.17	380.07	375.08	-	9.02	9.36	10.30	10.39	-
	<b>TRUCKING AND WAREHOUSING</b>	338.08	341.60	355.80	362.21	-	8.41	8.54	9.17	9.24	-
421, 3	Trucking and trucking terminals	345.37	346.87	362.78	370.60	-	8.57	8.70	9.35	9.43	-
422	Public warehousing	230.62	237.94	252.95	254.76	-	5.99	6.07	6.57	6.60	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b>	355.93	405.64	428.40	419.42	-	9.36	9.80	10.20	10.18	-
	<b>COMMUNICATION</b>	328.84	336.15	335.27	337.28	-	8.18	8.30	8.34	8.39	-
481	Telephone communication	343.48	353.46	345.10	347.09	-	8.46	8.60	8.50	8.57	-
4817	Switchboard operating employees	231.74	234.80	231.82	(*)	-	6.98	7.03	6.92	(*)	-
4818	Line construction employees	475.64	457.73	449.33	(*)	-	10.34	10.59	10.12	(*)	-
483	Radio and television broadcasting	265.80	268.80	284.59	285.70	-	6.94	7.00	7.45	7.44	-
	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	342.37	355.62	379.90	378.48	-	8.23	8.48	8.96	8.99	-
491	Electric services	350.28	359.92	405.59	400.03	-	8.36	8.59	9.26	9.26	-
492	Gas production and distribution	307.34	315.46	332.92	337.02	-	7.57	7.77	8.20	8.24	-
493	Combination utility services	378.71	399.41	401.86	407.12	-	9.06	9.42	9.66	9.81	-
495	Sanitary services	282.24	288.54	289.22	294.24	-	6.72	6.87	7.02	7.09	-
	<b>WHOLESALE AND RETAIL TRADE</b>	167.99	167.24	178.10	178.87	176.96	5.06	5.13	5.48	5.47	5.53
50, 51	<b>WHOLESALE TRADE</b>	250.38	252.96	267.02	268.10	270.40	6.42	6.52	6.99	7.00	7.06
50	<b>WHOLESALE TRADE-DURABLE GOODS</b>	252.80	255.56	270.05	272.22	-	6.40	6.52	6.96	6.98	-
501	Motor vehicles and automotive equipment	231.04	233.70	246.53	250.65	-	5.97	6.07	6.42	6.46	-
502	Furniture and home furnishings	227.46	227.93	236.33	234.10	-	5.97	6.03	6.37	6.31	-
503	Lumber and construction materials	256.07	260.57	273.41	275.09	-	6.45	6.58	7.12	7.09	-
504	Sporting goods, toys, and hobby goods	244.94	245.97	270.38	272.16	-	6.48	6.63	7.21	7.20	-

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				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>CHEMICALS AND ALLIED PRODUCTS—Cont'd</b>										
284	Soap, cleaners, and toilet goods .....	41.1	41.0	39.9	40.0	-	3.0	3.4	2.6	2.8	-
2841	Soap and other detergents .....	44.3	44.0	43.1	42.2	-	5.1	5.2	4.2	4.4	-
2844	Toilet preparations .....	39.1	39.4	38.6	39.3	-	1.7	2.5	2.2	2.2	-
2842, 3	Polishing, sanitation, and finishing preparations .....	40.5	40.1	38.1	38.6	-	2.8	2.8	1.3	1.7	-
285	Paints and allied products .....	41.4	40.7	39.7	40.1	-	3.2	3.0	2.1	2.4	-
286	Industrial organic chemicals .....	43.4	43.4	42.1	42.2	-	4.6	4.6	3.0	3.2	-
2865	Cyclic crudes and intermediates .....	43.4	42.8	41.6	41.3	-	4.5	4.6	2.3	2.7	-
2861, 9	Gum, wood, and industrial organic chemicals, nec .....	43.4	43.6	42.3	42.5	-	4.6	4.6	3.3	3.4	-
287	Agricultural chemicals .....	42.6	42.8	42.5	42.9	-	4.7	5.0	4.4	4.3	-
289	Miscellaneous chemical products .....	41.3	41.7	40.0	40.5	-	3.7	4.0	2.5	3.1	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	43.6	44.7	42.7	42.0	43.2	4.4	5.1	3.4	3.5	-
291	Petroleum refining .....	42.2	44.8	42.8	41.8	-	3.6	4.4	3.0	3.0	-
295	Paving and roofing materials .....	46.0	45.5	42.9	43.1	-	7.9	8.3	5.9	6.2	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> .....	40.0	40.5	38.6	40.1	40.3	3.1	3.4	2.2	2.7	-
301	Tires and inner tubes .....	40.5	41.2	36.5	40.7	-	3.5	4.0	1.6	2.3	-
302	Rubber and plastics footwear .....	38.5	39.3	42.6	41.9	-	2.4	2.6	3.1	3.1	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting .....	41.6	42.2	40.5	42.0	-	4.2	4.1	1.7	2.2	-
306	Fabricated rubber products, nec .....	39.9	40.3	37.9	39.3	-	2.7	3.0	1.8	2.3	-
307	Miscellaneous plastics products .....	40.0	40.4	38.9	39.9	-	3.2	3.3	2.3	2.9	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	36.6	36.8	36.4	36.9	36.3	1.5	1.8	1.2	1.5	-
311	Leather tanning and finishing .....	38.0	38.5	39.0	39.4	-	2.1	2.5	2.1	2.7	-
314	Footwear, except rubber .....	36.3	36.5	36.4	36.8	-	1.5	1.8	1.0	1.2	-
3143	Men's footwear, except athletic .....	37.2	37.9	36.5	37.6	-	1.4	1.9	.7	1.4	-
3144	Women's footwear, except athletic .....	35.8	35.5	36.4	36.5	-	1.7	1.9	1.3	1.2	-
316	Luggage .....	36.2	37.3	37.9	37.9	-	.6	2.1	3.3	3.0	-
317	Handbags and personal leather goods .....	37.6	37.3	34.1	35.2	-	2.1	2.1	1.2	1.7	-
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.3	39.9	39.9	40.1	39.9	-	-	-	-	-
4011	<b>RAILROAD TRANSPORTATION:</b> Class I railroads <sup>2</sup> .....	44.5	42.7	43.6	-	-	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> .....	37.5	34.6	36.8	36.8	-	-	-	-	-	-
411	Local and suburban transportation .....	41.0	39.9	40.2	39.9	-	-	-	-	-	-
413	Intercity highway transportation .....	39.6	38.8	36.9	36.1	-	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	40.2	40.0	38.8	39.2	-	-	-	-	-	-
421, 3	Trucking and trucking terminals .....	40.3	40.1	38.8	39.3	-	-	-	-	-	-
422	Public warehousing .....	38.5	39.2	38.5	38.6	-	-	-	-	-	-
46	<b>PIPE LINES, EXCEPT NATURAL GAS</b> .....	42.3	41.8	42.0	41.2	-	-	-	-	-	-
48	<b>COMMUNICATION</b> .....	40.2	40.5	40.2	40.2	-	-	-	-	-	-
481	Telephone communication .....	40.6	41.1	40.6	40.5	-	-	-	-	-	-
4817	Switchboard operating employees <sup>3</sup> .....	33.2	33.4	33.5	(*)	-	-	-	-	-	-
4818	Line construction employees <sup>4</sup> .....	46.0	47.0	44.4	(*)	-	-	-	-	-	-
483	Radio and television broadcasting .....	38.3	38.4	38.2	38.4	-	-	-	-	-	-
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> .....	41.6	41.7	42.4	42.1	-	-	-	-	-	-
491	Electric services .....	41.9	41.9	43.8	43.2	-	-	-	-	-	-
492	Gas production and distribution .....	40.6	40.6	40.6	40.9	-	-	-	-	-	-
493	Combination utility services .....	41.8	42.4	41.6	41.5	-	-	-	-	-	-
495	Sanitary services .....	42.0	42.0	41.2	41.5	-	-	-	-	-	-
-	<b>WHOLESALE AND RETAIL TRADE</b> .....	33.2	32.6	32.5	32.7	32.0	-	-	-	-	-
50, 51	<b>WHOLESALE TRADE</b> .....	39.0	38.8	38.2	38.3	38.3	-	-	-	-	-
50	<b>WHOLESALE TRADE-DURABLE GOODS</b> .....	39.5	39.2	38.8	39.0	-	-	-	-	-	-
501	Motor vehicles and automotive equipment .....	38.7	38.5	38.4	38.8	-	-	-	-	-	-
502	Furniture and home furnishings .....	38.1	37.8	37.1	37.1	-	-	-	-	-	-
503	Lumber and construction materials .....	39.7	39.6	38.4	38.8	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods .....	37.8	37.1	37.5	37.8	-	-	-	-	-	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	\$301.73	\$303.20	\$318.24	\$323.40	-	\$7.45	\$7.58	\$8.16	\$8.25	-
506	Electrical goods .....	253.99	260.74	280.47	279.69	-	6.58	6.72	7.21	7.19	-
507	Hardware, plumbing, and heating equipment .....	235.62	239.09	253.72	258.30	-	6.12	6.21	6.59	6.64	-
508	Machinery, equipment, and supplies .....	265.32	268.53	281.71	283.29	-	6.60	6.73	7.15	7.19	-
509	Miscellaneous durable goods .....	215.91	216.22	221.09	225.38	-	5.48	5.53	5.88	5.90	-
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> .....	246.01	250.10	262.92	262.22	-	6.44	6.53	7.03	7.03	-
511	Paper and paper products .....	277.09	279.96	287.07	286.63	-	7.55	7.67	7.93	7.94	-
512	Drugs, proprietaries, and sundries .....	246.38	255.36	274.90	276.77	-	6.57	6.72	7.37	7.46	-
513	Apparel, piece goods, and notions .....	219.47	222.64	229.22	231.36	-	5.98	6.05	6.28	6.27	-
514	Groceries and related products .....	247.81	253.11	254.44	253.68	-	6.42	6.49	6.99	6.95	-
516	Chemicals and allied products .....	258.19	304.17	321.31	326.14	-	7.53	7.72	8.26	8.32	-
517	Petroleum and petroleum products .....	305.32	311.26	343.71	335.75	-	7.71	7.90	8.55	8.50	-
518	Beer, wine, and distilled beverages .....	274.54	278.24	305.37	306.31	-	7.40	7.52	8.10	8.19	-
519	Miscellaneous nondurable goods .....	202.22	204.66	220.61	219.46	-	5.28	5.40	5.76	5.76	-
52-59	<b>RETAIL TRADE</b> .....	141.93	139.84	149.82	151.28	\$148.05	4.52	4.57	4.88	4.88	\$4.92
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	193.27	192.51	199.13	200.09	-	5.02	5.12	5.31	5.35	-
521	Lumber and other building materials .....	211.70	212.79	219.13	219.96	-	5.24	5.36	5.59	5.64	-
525	Hardware stores .....	150.23	146.50	159.73	159.74	-	4.28	4.36	4.59	4.63	-
53	<b>GENERAL MERCHANDISE STORES</b> .....	133.62	131.27	144.72	143.10	-	4.41	4.42	4.84	4.77	-
531	Department stores .....	135.36	136.92	150.49	150.00	-	4.60	4.61	5.05	5.00	-
533	Variety stores .....	109.44	107.64	118.50	113.18	-	3.60	3.60	3.95	3.76	-
539	Misc. general merchandise stores .....	107.41	104.08	116.27	117.43	-	3.51	3.54	3.85	3.85	-
54	<b>FOOD STORES</b> .....	164.28	162.51	202.52	202.22	-	5.67	5.77	6.27	6.28	-
541	Grocery stores .....	191.88	190.67	210.92	210.60	-	5.85	5.94	6.47	6.48	-
546	Retail bakeries .....	133.02	130.68	138.57	138.90	-	4.39	4.46	4.65	4.63	-
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	205.52	204.50	216.02	217.93	-	5.38	5.41	5.73	5.75	-
551, 2	New and used car dealers .....	245.31	243.95	257.38	260.26	-	6.29	6.32	6.72	6.76	-
553	Auto and home supply stores .....	159.67	158.53	216.36	217.95	-	4.87	4.89	5.29	5.29	-
554	Gasoline service stations .....	146.88	144.38	159.58	159.67	-	4.08	4.09	4.47	4.46	-
56	<b>APPAREL AND ACCESSORY STORES</b> .....	118.21	116.76	124.26	123.97	-	3.98	4.04	4.27	4.26	-
561	Men's and boys' clothing and furnishings .....	149.90	143.64	159.41	157.79	-	4.57	4.56	4.89	4.87	-
562	Women's ready-to-wear stores .....	104.99	104.15	112.28	111.23	-	3.71	3.76	4.01	4.03	-
565	Family clothing stores .....	112.99	111.54	113.00	115.02	-	3.83	3.90	4.05	4.05	-
566	Shoe stores .....	124.31	123.97	133.50	132.58	-	4.13	4.26	4.48	4.39	-
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	165.28	165.33	193.55	196.21	-	5.19	5.25	5.53	5.59	-
571	Furniture and home furnishings .....	169.92	160.10	193.63	197.19	-	5.32	5.37	5.58	5.65	-
572	Household appliance stores .....	200.20	194.70	206.21	207.64	-	5.50	5.50	5.76	5.80	-
573	Radio, television, and music stores .....	163.19	166.34	186.91	185.86	-	4.61	4.78	5.28	5.28	-
58	<b>EATING AND DRINKING PLACES<sup>5</sup></b> .....	93.91	91.96	98.26	100.74	-	3.44	3.47	3.68	3.69	-
59	<b>MISCELLANEOUS RETAIL</b> .....	146.82	146.06	153.28	155.20	-	4.49	4.55	4.82	4.85	-
591	Drug stores and proprietary stores .....	129.34	127.93	132.88	133.64	-	4.08	4.14	4.40	4.44	-
594	Miscellaneous shopping goods stores .....	134.62	130.78	140.57	142.97	-	4.22	4.26	4.52	4.51	-
596	Nonstore retailers .....	183.60	184.34	154.39	197.82	-	5.40	5.47	5.82	5.87	-
596	Fuel and ice dealers .....	222.91	226.20	239.32	239.71	-	5.76	5.83	6.20	6.21	-
599	Retail stores, nec .....	153.23	153.45	162.35	163.66	-	4.52	4.54	4.89	4.90	-
-	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>6</sup></b> .....	190.61	193.86	208.87	210.90	211.41	5.28	5.37	5.77	5.81	5.84
60	<b>BANKING</b> .....	164.44	167.90	179.82	181.04	-	4.53	4.60	4.94	4.96	-
602	Commercial and stock savings banks .....	161.45	165.35	176.54	178.12	-	4.46	4.53	4.85	4.88	-
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	171.92	176.16	187.31	188.27	-	4.71	4.80	5.16	5.13	-
612	Savings and loan associations .....	165.07	170.09	177.02	180.07	-	4.56	4.66	4.89	4.92	-
614	Personal credit institutions .....	167.08	170.09	183.60	182.00	-	4.59	4.66	5.10	5.00	-
63	<b>INSURANCE CARRIERS</b> .....	212.58	213.33	238.50	239.63	-	5.73	5.75	6.36	6.39	-
631	Life insurance .....	209.72	210.08	249.10	251.37	-	5.73	5.74	6.59	6.65	-
632	Medical service and health insurance .....	207.73	210.18	227.84	229.30	-	5.51	5.59	5.98	6.05	-
633	Fire, marine, and casualty insurance .....	214.23	215.18	233.10	232.10	-	5.79	5.80	6.30	6.29	-

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
	<b>WHOLESALE TRADE-DURABLE GOODS—Continued</b>										
505	Metals and minerals, except petroleum .....	40.5	40.0	39.0	39.2	-	-	-	-	-	
506	Electrical goods .....	38.6	38.8	38.9	38.9	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment .....	38.5	38.5	38.5	38.9	-	-	-	-	-	
508	Machinery, equipment, and supplies .....	40.2	39.9	39.4	39.4	-	-	-	-	-	
509	Miscellaneous durable goods .....	39.4	39.1	37.6	38.2	-	-	-	-	-	
51	<b>WHOLESALE TRADE-NONDURABLE GOODS</b> ..	38.2	38.3	37.4	37.3	-	-	-	-	-	
511	Paper and paper products .....	36.7	36.5	36.2	36.1	-	-	-	-	-	
512	Drugs, proprietaries, and sundries .....	37.5	38.0	37.3	37.1	-	-	-	-	-	
513	Apparel, piece goods, and notions .....	36.7	36.8	36.5	36.9	-	-	-	-	-	
514	Groceries and related products .....	38.6	39.0	36.4	36.5	-	-	-	-	-	
516	Chemicals and allied products .....	39.6	39.4	38.9	39.2	-	-	-	-	-	
517	Petroleum and petroleum products .....	39.6	39.4	40.2	39.5	-	-	-	-	-	
518	Beer, wine, and distilled beverages .....	37.1	37.0	37.7	37.4	-	-	-	-	-	
519	Miscellaneous nondurable goods .....	38.3	37.9	38.3	38.1	-	-	-	-	-	
52-59	<b>RETAIL TRADE</b> .....	31.4	30.6	30.7	31.0	30.1	-	-	-	-	
52	<b>BUILDING MATERIALS AND GARDEN SUPPLIES</b> .....	38.5	37.6	37.5	37.4	-	-	-	-	-	
521	Lumber and other building materials .....	40.4	39.7	39.2	39.0	-	-	-	-	-	
525	Hardware stores .....	35.1	33.6	34.8	34.5	-	-	-	-	-	
53	<b>GENERAL MERCHANDISE STORES</b> .....	30.3	29.7	29.9	30.0	-	-	-	-	-	
531	Department stores .....	30.3	29.7	29.8	30.0	-	-	-	-	-	
533	Variety stores .....	30.4	29.9	30.0	30.1	-	-	-	-	-	
539	Misc. general merchandise stores .....	30.6	29.4	30.2	30.5	-	-	-	-	-	
54	<b>FOOD STORES</b> .....	32.5	31.7	32.3	32.2	-	-	-	-	-	
541	Grocery stores .....	32.8	32.1	32.6	32.5	-	-	-	-	-	
546	Retail bakeries .....	30.3	29.3	29.8	30.0	-	-	-	-	-	
55	<b>AUTOMOTIVE DEALERS AND SERVICE STATIONS</b> .....	38.2	37.8	37.7	37.9	-	-	-	-	-	
551, 2	New and used car dealers .....	39.0	38.6	38.3	38.5	-	-	-	-	-	
553	Auto and home supply stores .....	41.0	40.6	40.9	41.2	-	-	-	-	-	
554	Gasoline service stations .....	36.0	35.3	35.7	35.8	-	-	-	-	-	
56	<b>APPAREL AND ACCESSORY STORES</b> .....	29.7	28.9	29.1	29.1	-	-	-	-	-	
561	Men's and boys' clothing and furnishings .....	32.8	31.5	32.6	32.4	-	-	-	-	-	
562	Women's ready-to-wear stores .....	28.3	27.7	28.0	27.6	-	-	-	-	-	
565	Family clothing stores .....	29.5	28.6	27.9	28.4	-	-	-	-	-	
566	Shoe stores .....	30.1	29.1	29.8	30.2	-	-	-	-	-	
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b> .....	35.7	35.3	35.0	35.1	-	-	-	-	-	
571	Furniture and home furnishings .....	35.7	35.4	34.7	34.9	-	-	-	-	-	
572	Household appliance stores .....	36.4	35.4	35.8	35.8	-	-	-	-	-	
573	Radio, television, and music stores .....	35.4	34.8	35.4	35.2	-	-	-	-	-	
58	<b>EATING AND DRINKING PLACES</b> .....	27.3	26.5	26.7	27.3	-	-	-	-	-	
59	<b>MISCELLANEOUS RETAIL</b> .....	32.7	32.1	31.8	32.0	-	-	-	-	-	
591	Drug stores and proprietary stores .....	31.7	30.9	30.2	30.1	-	-	-	-	-	
594	Miscellaneous shopping goods stores .....	31.9	30.7	31.1	31.7	-	-	-	-	-	
596	Nonstore retailers .....	34.0	33.7	33.4	33.7	-	-	-	-	-	
598	Fuel and ice dealers .....	38.7	38.8	38.6	38.6	-	-	-	-	-	
599	Retail stores, nec .....	33.9	33.8	33.2	33.4	-	-	-	-	-	
-	<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	36.1	36.1	36.2	36.3	36.2	-	-	-	-	
60	<b>BANKING</b> .....	36.3	36.5	36.4	36.5	-	-	-	-	-	
602	Commercial and stock savings banks .....	36.2	36.5	36.4	36.5	-	-	-	-	-	
61	<b>CREDIT AGENCIES OTHER THAN BANKS</b> .....	36.5	36.7	36.3	36.7	-	-	-	-	-	
612	Savings and loan associations .....	36.2	36.5	36.2	36.6	-	-	-	-	-	
614	Personal credit institutions .....	36.4	36.5	36.0	36.4	-	-	-	-	-	
63	<b>INSURANCE CARRIERS</b> .....	37.1	37.1	37.5	37.5	-	-	-	-	-	
631	Life insurance .....	36.6	36.6	37.8	37.8	-	-	-	-	-	
632	Medical service and health insurance .....	37.7	37.6	38.1	37.9	-	-	-	-	-	
633	Fire, marine, and casualty insurance .....	37.0	37.1	37.0	36.9	-	-	-	-	-	

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
-	<b>SERVICES</b> .....	\$176.29	\$176.22	\$191.65	\$191.40	\$192.99	\$5.31	\$5.45	\$5.79	\$5.80	\$5.92
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts .....	125.69	126.05	137.15	137.53	-	3.94	4.04	4.41	4.38	-
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	142.49	142.35	152.21	152.44	-	4.13	4.15	4.53	4.51	-
723	Beauty shops .....	121.50	123.01	127.01	126.28	-	4.01	4.02	4.32	4.31	-
73	<b>BUSINESS SERVICES</b> .....	180.51	179.95	202.40	201.86	-	5.47	5.52	6.06	6.08	-
731	Advertising .....	270.85	276.66	280.96	284.44	-	7.38	7.75	7.87	7.99	-
734	Services to buildings .....	129.60	127.91	146.40	145.92	-	4.73	4.72	5.21	5.23	-
737	Computer and data processing services .....	235.89	236.63	263.52	263.90	-	6.41	6.52	7.20	7.29	-
75	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....	217.54	214.70	233.78	235.31	-	5.68	5.71	6.12	6.16	-
753	Automotive repair shops .....	238.20	234.35	255.32	259.11	-	6.00	6.04	6.53	6.61	-
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	259.61	259.64	275.71	279.49	-	6.41	6.54	6.98	7.04	-
78	<b>MOTION PICTURES</b> .....	204.32	210.38	156.40	173.08	-	7.07	7.65	6.94	6.34	-
781	Motion picture production and services .....	404.42	413.22	356.15	388.08	-	10.45	10.65	10.21	9.90	-
79	<b>AMUSEMENT AND RECREATION SERVICES</b> ..	160.88	155.17	164.64	163.13	-	4.92	5.26	5.21	5.13	-
80	<b>HEALTH SERVICES</b> .....	172.31	174.11	188.91	189.99	-	5.19	5.26	5.69	5.74	-
801	Offices of physicians .....	174.95	179.17	151.10	194.35	-	5.35	5.53	5.88	5.98	-
802	Offices of dentists .....	148.90	150.45	161.87	166.17	-	5.17	5.17	5.64	5.73	-
805	Nursing and personal care facilities .....	119.35	120.98	131.67	129.47	-	3.85	3.85	4.18	4.19	-
806	Hospitals .....	150.10	151.61	209.76	210.80	-	5.51	5.57	6.08	6.11	-
81	<b>LEGAL SERVICES</b> .....	232.90	236.26	252.93	251.71	-	6.81	6.99	7.31	7.36	-
89	<b>MISCELLANEOUS SERVICES</b> .....	253.76	300.09	324.61	327.37	-	7.67	7.96	8.52	8.57	-
891	Engineering and architectural services .....	316.65	323.25	352.30	355.55	-	8.14	8.44	9.08	9.14	-
893	Accounting, auditing, and bookkeeping .....	254.77	255.24	277.86	279.00	-	6.74	6.95	7.39	7.44	-

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

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

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

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

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

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

\* Not available.

p = preliminary.

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

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
-	<b>SERVICES</b> .....	33.2	32.7	33.1	33.0	32.6	-	-	-	-	-
	<b>HOTELS AND OTHER LODGING PLACES:</b>										
701	Hotels, motels, and tourist courts .....	31.9	31.2	31.1	31.4	-	-	-	-	-	
	<b>PERSONAL SERVICES:</b>										
721	Laundry, cleaning, and garment services .....	34.5	34.3	33.6	33.8	-	-	-	-	-	
723	Beauty shops .....	30.3	30.6	29.4	29.3	-	-	-	-	-	
	<b>BUSINESS SERVICES</b> .....										
73	Advertising .....	33.0	32.6	33.4	33.2	-	-	-	-	-	
731	Services to buildings .....	36.7	35.7	35.7	35.6	-	-	-	-	-	
734	Computer and data processing services .....	27.4	27.1	28.1	27.9	-	-	-	-	-	
737	.....	36.8	36.6	36.6	36.2	-	-	-	-	-	
	<b>AUTO REPAIR, SERVICES, AND GARAGES</b> .....										
75	Automotive repair shops .....	38.3	37.6	38.2	38.2	-	-	-	-	-	
753	.....	39.7	38.8	39.1	39.2	-	-	-	-	-	
76	<b>MISCELLANEOUS REPAIR SERVICES</b> .....	40.5	39.7	39.5	39.7	-	-	-	-	-	
	<b>MOTION PICTURES</b> .....										
78	Motion picture production and services .....	28.9	27.5	28.3	27.3	-	-	-	-	-	
781	.....	38.7	38.8	38.8	39.2	-	-	-	-	-	
79	<b>AMUSEMENT AND RECREATION SERVICES</b> .....	32.7	29.5	31.6	31.8	-	-	-	-	-	
	<b>HEALTH SERVICES</b> .....										
80	Offices of physicians .....	33.2	33.1	33.2	33.1	-	-	-	-	-	
801	Offices of dentists .....	32.7	32.4	32.5	32.5	-	-	-	-	-	
802	Nursing and personal care facilities .....	28.8	29.1	28.7	29.0	-	-	-	-	-	
805	Hospitals .....	31.0	31.1	31.5	30.9	-	-	-	-	-	
806	.....	34.5	34.4	34.5	34.5	-	-	-	-	-	
81	<b>LEGAL SERVICES</b> .....	34.2	33.8	34.6	34.2	-	-	-	-	-	
	<b>MISCELLANEOUS SERVICES</b> .....										
89	Engineering and architectural services .....	38.3	37.7	38.1	38.2	-	-	-	-	-	
891	Accounting, auditing, and bookkeeping .....	38.9	38.3	38.8	38.9	-	-	-	-	-	
893	.....	37.8	37.3	37.6	37.5	-	-	-	-	-	

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

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

Item	1979												
	Avg.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Executive Branch</b>													
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
<b>Department of Defense</b>													
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
<b>Postal Service</b>													
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
<b>Other Agencies</b>													
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 <sup>1</sup>				
	Aug. 1979	Sept. 1979	July 1980	Aug. 1980P	Sept. 1980P
<b>MANUFACTURING</b> .....	<b>\$6.43</b>	<b>\$6.51</b>	<b>\$7.07</b>	<b>\$7.05</b>	<b>\$7.14</b>
<b>DURABLE GOODS</b> .....	<b>6.24</b>	<b>6.94</b>	<b>7.55</b>	<b>7.53</b>	<b>7.63</b>
Lumber and wood products .....	5.94	6.01	6.50	6.48	-
Furniture and fixtures .....	4.95	5.01	5.44	5.44	-
Stone, clay, and glass products .....	6.53	6.61	7.27	7.28	-
Primary metal industries .....	8.70	8.75	9.56	9.59	-
Fabricated metal products .....	6.58	6.65	7.20	7.25	-
Machinery, except electrical .....	7.03	7.13	7.78	7.76	-
Electric and electronic equipment .....	6.17	6.24	6.81	6.85	-
Transportation equipment .....	8.05	8.20	9.02	8.99	-
Instruments and related products .....	5.97	6.01	6.71	6.68	-
Miscellaneous manufacturing industries .....	4.88	4.89	5.37	5.35	-
<b>NONDURABLE GOODS</b> .....	<b>5.80</b>	<b>5.86</b>	<b>6.38</b>	<b>6.38</b>	<b>6.45</b>
Food and kindred products .....	5.95	5.97	6.56	6.54	-
Tobacco manufactures .....	6.39	6.25	7.96	7.54	-
Textile mill products .....	4.57	4.60	4.91	5.01	-
Apparel and other textile products .....	4.14	4.21	4.45	4.53	-
Paper and allied products .....	6.84	6.91	7.58	7.60	-
Printing and publishing .....	6.72	6.79	7.31	7.38	-
Chemicals and allied products .....	7.35	7.41	8.08	8.09	-
Petroleum and coal products .....	8.89	8.99	9.85	9.75	-
Rubber and misc. plastics products .....	5.72	5.78	6.30	6.35	-
Leather and leather products .....	4.13	4.18	4.47	4.52	-

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

P=preliminary.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

Industry	Gross average weekly earnings			Spendable average weekly earnings <sup>2</sup>					
				Worker with no dependents			Married worker with 3 dependents		
	Aug. 1975	July 1980	Aug. 1980P	Aug. 1979	July 1980	Aug. 1980P	Aug. 1979	July 1980	Aug. 1980P
<b>TOTAL PRIVATE:</b>									
Current dollars .....	\$222.48	\$234.39	\$236.79	\$179.87	\$188.33	\$190.01	\$196.83	\$205.86	\$207.68
1967 dollars .....	100.44	94.51	94.87	81.21	75.94	76.13	88.86	83.01	83.21
<b>MINING:</b>									
Current dollars .....	366.35	380.45	394.25	276.20	284.76	293.02	304.17	314.44	324.21
1967 dollars .....	165.40	153.41	157.95	124.70	114.82	117.40	137.32	126.79	129.89
<b>CONSTRUCTION:</b>									
Current dollars .....	355.85	373.61	374.49	269.49	280.66	281.19	296.52	309.46	310.10
1967 dollars .....	160.65	150.65	150.04	121.67	113.17	112.66	133.87	124.78	124.24
<b>MANUFACTURING:</b>									
Current dollars .....	266.00	282.85	266.89	211.79	221.87	224.61	231.36	242.63	245.69
1967 dollars .....	120.99	114.05	114.94	95.62	89.46	89.99	104.45	97.83	98.43
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars .....	334.89	355.11	358.09	256.10	269.02	270.92	281.24	295.98	298.15
1967 dollars .....	151.19	143.15	143.47	115.62	108.48	108.54	126.97	119.35	119.45
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars .....	167.59	178.10	178.87	139.86	147.43	148.01	157.13	163.95	164.46
1967 dollars .....	75.84	71.81	71.66	63.14	59.45	59.30	70.94	66.11	65.89
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars .....	190.61	208.87	210.90	156.65	169.95	171.43	172.22	186.23	187.81
1967 dollars .....	86.05	84.22	84.50	70.72	68.53	68.68	77.75	75.05	75.24
<b>SERVICES:</b>									
Current dollars .....	176.25	151.65	191.40	146.08	157.41	157.22	162.73	172.90	172.74
1967 dollars .....	75.59	77.28	76.68	65.95	63.47	62.99	73.47	69.72	69.21
<b>CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)</b> .....	221.5	248.0	249.6						

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

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

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 workers<sup>1</sup> on private nonagricultural payrolls by industry division and major manufacturing group

[1967=100]

Industry division and group	Aug. 1979	Sept. 1979	July 1980	Aug. 1980 <sup>p</sup>	Sept. 1980 <sup>p</sup>
	Hours				
<b>TOTAL PRIVATE</b> .....	128.3	127.8	124.1	125.5	125.3
<b>GOODS-PRODUCING</b> .....	111.5	113.0	99.6	102.4	104.7
<b>MINING</b> .....	160.1	160.3	160.9	164.3	165.4
<b>CONSTRUCTION</b> .....	145.4	142.8	134.1	135.1	136.6
<b>MANUFACTURING</b> .....	103.7	106.1	91.4	94.5	96.9
<b>DURABLE GOODS</b> .....	105.4	108.9	91.0	92.8	96.4
Lumber and wood products .....	119.4	118.9	94.3	99.1	100.2
Furniture and fixtures .....	108.6	110.1	87.5	93.2	97.7
Stone, clay, and glass products .....	115.2	114.2	97.8	99.8	101.7
Primary metal industries .....	95.9	97.2	73.7	74.7	78.1
Fabricated metal products .....	104.2	106.8	88.0	91.7	94.6
Machinery, except electrical .....	114.6	118.6	106.3	105.3	108.2
Electric and electronic equipment .....	105.4	110.3	95.9	98.7	101.9
Transportation equipment .....	90.5	99.2	77.9	77.4	84.9
Instruments and related products .....	126.6	127.4	121.9	123.7	126.5
Miscellaneous manufacturing industries .....	101.4	103.4	84.8	90.3	92.1
<b>NONDURABLE GOODS</b> .....	101.3	101.9	91.9	96.9	97.7
Food and kindred products .....	106.3	107.8	96.2	104.6	103.3
Tobacco manufactures .....	77.7	86.3	62.9	72.8	77.6
Textile mill products .....	89.6	90.7	78.5	83.1	85.2
Apparel and other textile products .....	89.4	89.0	83.3	88.4	88.8
Paper and allied products .....	102.9	102.5	94.0	96.1	96.2
Printing and publishing .....	104.7	105.1	102.1	103.6	104.4
Chemicals and allied products .....	107.9	107.7	102.4	102.9	104.8
Petroleum and coal products .....	125.2	127.5	119.4	118.1	121.3
Rubber and misc. plastics products .....	147.2	148.3	117.0	127.1	131.8
Leather and leather products .....	67.2	66.9	57.5	66.3	65.8
<b>SERVICE-PRODUCING</b> .....	139.9	138.1	141.2	141.6	139.7
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	116.5	116.2	113.5	114.0	114.4
<b>WHOLESALE AND RETAIL TRADE</b> .....	133.6	132.0	131.9	133.0	131.1
<b>WHOLESALE TRADE</b> .....	134.8	134.2	132.7	132.9	132.8
<b>RETAIL TRADE</b> .....	133.1	131.1	131.6	133.1	130.4
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	148.1	146.5	153.1	153.4	150.9
<b>SERVICES</b> .....	157.2	154.1	163.2	162.9	160.0

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

p=preliminary.

# ESTABLISHMENT DATA HOURS AND EARNINGS

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

(1967=100)

Industry division and group	Aug. 1979	Sept. 1979	July 1980	Aug. 1980F	Sept. 1980P
	Payrolls				
<b>TOTAL PRIVATE</b> .....	295.8	300.3	307.6	312.3	316.7
<b>GOODS-PRODUCING</b> .....	268.2	275.7	259.9	268.0	277.8
<b>MINING</b> .....	426.8	432.2	458.3	473.8	480.3
<b>CONSTRUCTION</b> .....	330.2	330.6	323.2	329.8	337.8
<b>MANUFACTURING</b> .....	246.0	255.4	235.8	244.0	254.4
<b>DURABLE GOODS</b> .....	250.7	263.2	236.0	240.9	254.4
Lumber and wood products .....	313.7	317.0	267.7	282.0	284.0
Furniture and fixtures .....	237.7	244.9	207.8	222.9	234.3
Stone, clay, and glass products .....	282.0	283.0	263.6	269.7	277.2
Primary metal industries .....	261.1	266.7	216.7	221.0	233.5
Fabricated metal products .....	239.7	249.1	219.4	230.2	241.9
Machinery, except electrical .....	264.1	278.4	268.4	266.0	276.7
Electric and electronic equipment .....	242.0	257.2	240.7	249.8	263.9
Transportation equipment .....	222.6	248.1	211.7	210.3	235.4
Instruments and related products .....	273.1	277.8	293.3	298.0	306.8
Miscellaneous manufacturing industries .....	216.9	222.6	197.1	210.2	216.6
<b>NONDURABLE GOODS</b> .....	237.9	242.1	235.5	249.3	254.4
Food and kindred products .....	252.9	258.3	251.3	273.5	273.0
Tobacco manufactures .....	223.1	244.6	225.3	247.7	255.2
Textile mill products .....	207.9	212.4	193.4	209.3	217.1
Apparel and other textile products .....	185.3	187.4	184.5	200.5	205.1
Paper and allied products .....	259.3	261.5	260.8	267.1	268.7
Printing and publishing .....	223.0	227.0	234.5	241.1	246.6
Chemicals and allied products .....	266.3	268.5	275.6	277.8	286.4
Petroleum and coal products .....	327.1	338.9	342.0	335.7	347.4
Rubber and misc. plastics products .....	318.6	325.4	276.1	304.2	319.4
Leather and leather products .....	136.9	138.8	126.4	147.8	147.2
<b>SERVICE-PRODUCING</b> .....	319.6	321.5	348.7	350.5	350.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	299.2	303.0	312.3	314.6	316.9
<b>WHOLESALE AND RETAIL TRADE</b> .....	299.9	300.5	320.7	323.1	321.6
<b>WHOLESALE TRADE</b> .....	300.7	304.3	322.2	323.3	326.0
<b>RETAIL TRADE</b> .....	299.5	298.4	319.8	322.9	319.1
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	302.8	304.7	341.9	344.7	341.3
<b>SERVICES</b> .....	364.8	367.3	412.6	413.0	413.7

# ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. P	Sept.
<b>TOTAL PRIVATE</b> .....	35.6	35.6	35.6	35.7	35.6	35.5	35.4	35.3	35.1	35.0	34.9	35.1	35.2
<b>MINING</b> <sup>2</sup> .....	43.4	43.7	43.6	43.9	43.4	43.2	43.4	42.8	42.7	43.2	41.9	42.9	43.1
<b>CONSTRUCTION</b> .....	37.5	36.6	37.0	37.2	37.3	37.1	36.6	36.7	36.8	37.1	36.8	36.5	37.4
<b>MANUFACTURING</b> .....	40.1	40.1	40.1	40.2	40.3	40.1	39.8	39.8	39.3	39.1	39.0	39.4	39.1
<i>Overtime hours</i> .....	3.2	3.2	3.3	3.2	3.2	3.0	3.1	3.0	2.6	2.4	2.5	2.7	2.7
<b>DURABLE GOODS</b> .....	40.7	40.7	40.6	40.7	40.8	40.6	40.3	40.3	39.7	39.5	39.4	39.8	39.5
<i>Overtime hours</i> .....	3.3	3.3	3.3	3.2	3.3	3.1	3.2	3.0	2.5	2.4	2.4	2.6	2.7
Lumber and wood products .....	39.6	39.2	38.9	39.0	39.4	39.1	38.7	37.3	37.5	37.6	38.1	38.8	38.1
Furniture and fixtures .....	38.7	38.6	38.9	38.9	39.2	39.0	38.5	38.5	37.6	37.0	36.6	37.5	38.2
Stone, clay, and glass products .....	41.5	41.3	41.4	41.5	41.4	41.2	40.9	40.6	40.3	40.4	40.2	40.3	40.5
Primary metal industries .....	41.1	41.1	40.8	40.7	40.8	40.8	40.7	40.6	39.2	38.8	38.6	39.1	39.1
Fabricated metal products .....	40.7	40.6	40.7	40.9	40.9	40.8	40.7	40.8	39.9	39.7	39.6	40.0	40.2
Machinery, except electrical .....	41.7	41.5	41.5	41.5	41.6	41.5	41.3	41.5	41.0	40.7	40.6	40.7	40.1
Electric and electronic equipment .....	40.3	40.3	40.4	40.5	40.5	40.3	40.0	39.9	39.5	39.2	39.0	39.3	39.1
Transportation equipment .....	40.6	41.0	40.5	40.9	40.9	40.8	40.4	40.5	39.7	39.5	39.6	40.9	40.1
Instruments and related products .....	40.7	40.7	41.0	41.0	41.4	40.9	40.4	40.7	40.3	40.4	40.1	40.3	40.2
Miscellaneous manufacturing ind .....	39.0	38.9	38.9	39.0	39.2	39.1	38.6	38.5	38.3	38.2	38.3	38.4	38.1
<b>NONDURABLE GOODS</b> .....	39.3	39.3	39.4	39.4	39.5	39.4	39.0	39.1	38.9	38.6	38.5	38.7	38.1
<i>Overtime hours</i> .....	3.1	3.1	3.2	3.1	3.1	2.9	3.0	3.0	2.6	2.5	2.6	2.8	2.7
Food and kindred products .....	40.0	39.9	39.9	39.9	39.8	39.7	39.3	39.6	39.9	39.6	39.7	39.9	39.1
Tobacco manufactures .....	38.4	38.3	37.8	38.5	38.5	37.9	37.7	38.2	38.2	37.3	38.5	37.5	37.2
Textile mill products .....	40.7	40.6	41.0	41.0	41.5	41.1	40.8	40.3	39.7	39.1	38.8	39.0	39.2
Apparel and other textile products .....	35.2	35.4	35.3	35.6	36.0	35.9	35.3	35.8	35.3	35.2	35.1	35.0	35.1
Paper and allied products .....	42.5	42.6	42.7	42.8	43.0	42.9	42.6	42.5	41.7	41.4	41.4	41.8	41.1
Printing and publishing .....	37.5	37.4	37.5	37.4	37.8	37.4	37.2	37.2	37.1	36.8	36.9	37.1	36.5
Chemicals and allied products .....	41.8	41.7	42.0	41.8	42.0	41.9	41.8	41.5	41.3	41.1	40.8	41.0	41.1
Petroleum and coal products .....	44.0	43.5	44.4	43.4	36.9	40.7	39.7	41.1	42.5	42.3	42.2	42.0	42.1
Rubber and misc. plastics products .....	40.3	40.2	40.0	40.0	40.7	40.0	39.9	40.1	39.3	39.2	39.0	40.3	40.2
Leather and leather products .....	36.8	36.5	36.6	37.0	37.2	37.2	36.9	37.3	36.7	36.7	36.1	36.8	36.2
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> <sup>2</sup> .....	39.9	40.0	40.2	40.0	39.5	39.4	39.5	39.5	39.3	39.6	39.9	40.1	39.1
<b>WHOLESALE AND RETAIL TRADE</b> .....	32.6	32.6	32.6	32.6	32.6	32.4	32.3	32.0	32.1	31.9	31.8	32.1	32.1
<b>WHOLESALE TRADE</b> .....	38.8	38.6	38.9	38.9	38.9	38.8	38.5	38.5	38.6	38.0	38.0	38.1	38.2
<b>RETAIL TRADE</b> .....	30.6	30.6	30.6	30.6	30.6	30.4	30.3	30.0	30.1	30.0	29.8	30.2	30.1
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> <sup>2</sup> .....	36.1	36.2	36.3	36.4	36.2	36.3	36.3	36.2	36.1	36.4	36.2	36.3	36.2
<b>SERVICES</b> .....	32.7	32.6	32.7	32.8	32.7	32.7	32.7	32.6	32.5	32.6	32.6	32.5	32.1

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

p=preliminary.

<sup>2</sup> See footnote 1, table B-5.

**ESTABLISHMENT DATA  
SEASONALLY ADJUSTED**

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

Industry division and group	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. P	Sept. P
<b>TOTAL PRIVATE</b> .....	126.0	126.1	126.4	126.8	127.1	126.9	126.0	124.8	123.4	122.5	121.9	123.0	123.7
<b>GOODS-PRODUCING</b> .....	109.5	109.1	108.7	109.4	110.1	109.1	107.3	105.2	102.2	100.3	98.5	99.9	101.2
<b>MINING</b> .....	159.4	160.9	160.8	162.5	162.0	162.1	162.9	161.7	163.2	166.4	158.7	162.1	164.3
<b>CONSTRUCTION</b> .....	130.5	128.5	129.7	132.8	137.7	134.7	126.9	124.7	124.3	123.7	120.6	120.3	124.6
<b>MANUFACTURING</b> .....	104.1	103.8	103.2	103.5	103.4	102.8	101.8	99.8	96.1	93.8	92.5	94.1	94.9
<b>DURABLE GOODS</b> .....	107.8	107.1	106.0	106.4	106.0	105.8	105.0	101.6	96.6	94.0	92.4	93.9	95.0
Lumber and wood products .....	114.7	113.9	111.0	109.4	109.8	108.9	106.5	95.3	90.4	85.6	91.5	95.0	96.6
Furniture and fixtures .....	108.6	105.1	109.4	109.1	109.7	108.9	106.9	106.1	99.0	94.6	91.0	93.3	96.3
Stone, clay, and glass products .....	111.4	110.4	110.1	110.4	110.3	109.6	108.0	103.5	99.4	96.7	95.1	96.3	98.9
Primary metal industries .....	96.0	95.4	94.1	92.9	92.7	92.4	91.8	89.9	82.4	77.4	73.4	75.2	77.1
Fabricated metal products .....	105.8	105.9	105.6	105.7	104.8	104.9	104.6	102.1	95.3	92.5	89.9	91.9	93.7
Machinery, except electrical .....	118.5	115.7	114.9	114.4	118.5	117.5	116.9	116.1	114.1	110.8	108.8	108.0	108.3
Electric and electronic equipment .....	109.0	105.4	109.2	110.4	110.8	109.8	105.4	108.1	103.8	100.1	98.5	93.8	100.6
Transportation equipment .....	99.4	98.5	95.5	98.3	91.7	93.8	93.0	85.0	79.1	79.6	79.8	82.5	82.4
Instruments and related products .....	127.5	127.8	128.2	128.8	130.0	129.1	128.7	128.4	126.0	125.1	123.8	124.8	126.9
Miscellaneous manufacturing ind .....	99.1	98.6	98.6	99.4	99.3	98.2	96.9	95.8	91.6	88.5	89.0	88.4	88.3
<b>NONDURABLE GOODS</b> .....	98.7	99.1	99.1	99.2	99.7	98.4	97.3	97.2	95.4	93.5	92.5	94.5	94.7
Food and kindred products .....	96.5	97.3	97.5	97.6	96.9	96.2	94.6	94.4	95.1	93.2	93.9	95.2	92.5
Tobacco manufactures .....	75.5	75.3	65.0	70.3	71.7	70.5	70.2	72.4	73.8	72.1	73.0	68.5	67.9
Textile mill products .....	89.9	90.6	91.2	91.5	92.7	91.6	91.0	89.4	86.4	82.2	80.5	82.7	84.6
Apparel and other textile products .....	87.7	88.5	87.8	88.5	90.3	90.5	89.2	89.3	87.2	86.7	86.1	87.2	87.7
Paper and allied products .....	101.5	102.0	102.0	102.1	102.9	102.5	101.6	100.4	96.7	94.7	93.6	95.0	95.1
Printing and publishing .....	104.3	104.5	105.6	105.2	106.9	105.9	105.1	104.8	103.6	103.1	102.9	103.9	103.6
Chemicals and allied products .....	107.5	107.6	108.5	108.2	109.0	108.4	108.0	107.4	106.0	104.4	102.1	102.4	104.6
Petroleum and coal products .....	123.2	121.9	124.4	122.4	104.9	75.7	71.4	91.6	113.8	113.3	113.9	115.1	117.3
Rubber and misc. plastics products .....	147.0	146.6	144.9	143.4	145.7	142.2	141.4	139.9	128.5	123.6	119.2	128.1	130.6
Leather and leather products .....	66.7	66.5	66.0	66.4	66.4	66.4	65.6	66.0	63.6	63.3	59.5	65.4	65.5
<b>SERVICE-PRODUCING</b> .....	137.5	137.9	138.7	138.8	138.9	139.2	139.0	138.3	138.1	137.9	138.2	139.1	139.3
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	115.0	115.6	116.6	115.8	114.0	113.7	113.9	113.5	112.6	112.6	112.8	113.8	113.3
<b>WHOLESALE AND RETAIL TRADE</b> .....	131.4	131.6	132.3	132.2	132.6	132.7	131.8	130.4	130.3	129.1	128.9	130.5	130.7
<b>WHOLESALE TRADE</b> .....	133.8	134.3	135.1	135.0	135.4	135.6	134.5	134.1	133.7	130.8	131.0	131.7	132.7
<b>RETAIL TRADE</b> .....	130.4	130.9	131.2	131.0	131.5	131.5	130.7	128.9	129.0	128.5	128.0	130.1	129.9
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	146.3	147.0	147.7	148.2	148.2	149.3	149.6	149.4	149.7	151.2	151.1	151.8	150.8
<b>SERVICES</b> .....	153.8	154.0	155.0	156.0	156.4	157.2	157.6	157.6	157.4	157.8	159.1	158.8	159.8

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

P=preliminary.

# ESTABLISHMENT DATA SEASONALLY ADJUSTED

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

Industry	1979				1980								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. P	Sept. P
<b>Hourly Earnings Index<sup>2</sup> (1967=100)</b>													
TOTAL PRIVATE (In current dollars).....	234.3	235.0	237.3	239.4	240.3	242.4	245.2	246.2	248.3	250.9	252.1	253.6	254.5
MINING.....	265.6	267.7	272.0	274.6	277.0	278.5	280.9	283.7	284.2	286.3	285.3	289.0	288.6
CONSTRUCTION.....	224.5	224.7	226.5	228.1	225.8	229.8	232.2	233.0	234.2	235.3	236.7	238.8	238.7
MANUFACTURING.....	238.6	239.9	241.9	244.1	245.2	247.8	250.2	252.4	255.0	258.3	260.6	262.3	264.0
TRANSPORTATION AND PUBLIC UTILITIES.....	255.1	255.8	256.7	260.1	260.8	262.4	265.9	267.2	268.7	270.6	272.8	272.2	271.9
WHOLESALE AND RETAIL TRADE.....	227.2	227.6	229.7	231.4	234.2	235.2	237.8	238.0	239.8	241.8	243.5	244.8	245.3
FINANCE, INSURANCE, AND REAL ESTATE.....	214.0	212.9	215.7	217.9	218.4	221.1	225.7	224.9	226.3	230.2	229.0	232.0	232.2
SERVICES.....	231.6	232.3	234.9	237.8	237.7	239.7	242.7	243.0	245.7	248.4	247.6	249.5	251.2
TOTAL PRIVATE (In 1967 dollars) <sup>3</sup> .....	104.9	104.1	104.1	103.8	102.7	102.2	102.0	101.4	101.4	101.5	102.0	101.9	-
<b>Average hourly earnings</b>													
TOTAL PRIVATE.....	\$6.26	\$6.28	\$6.34	\$6.39	\$6.41	\$6.45	\$6.51	\$6.54	\$6.57	\$6.62	\$6.67	\$6.71	\$6.74
MINING <sup>4</sup> .....	8.59	8.59	8.73	8.75	8.88	8.90	8.95	9.10	9.08	9.16	9.08	9.19	9.26
CONSTRUCTION.....	9.39	9.40	9.48	9.55	9.46	9.64	9.75	9.79	9.83	9.89	9.94	10.03	10.03
MANUFACTURING.....	6.79	6.82	6.87	6.91	6.93	6.99	7.06	7.11	7.15	7.22	7.30	7.36	7.40
TRANSPORTATION AND PUBLIC UTILITIES <sup>4</sup> .....	8.44	8.43	8.51	8.54	8.55	8.58	8.62	8.71	8.72	8.75	8.90	8.93	8.96
WHOLESALE AND RETAIL TRADE.....	5.13	5.15	5.20	5.23	5.28	5.31	5.37	5.38	5.42	5.45	5.50	5.52	5.53
FINANCE, INSURANCE, AND REAL ESTATE <sup>4</sup> .....	5.37	5.35	5.41	5.46	5.53	5.60	5.68	5.68	5.70	5.77	5.77	5.81	5.84
SERVICES.....	5.45	5.47	5.54	5.60	5.60	5.64	5.72	5.72	5.78	5.86	5.87	5.90	5.92
<b>Average weekly earnings</b>													
TOTAL PRIVATE:													
Current dollars.....	222.86	223.57	225.70	228.12	228.20	228.98	230.45	230.86	230.61	231.70	232.78	235.52	237.25
1967 dollars <sup>5</sup> .....	99.76	99.10	99.03	98.88	97.52	96.53	95.82	95.08	94.16	93.77	94.17	94.62	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) <sup>3,5</sup> .....	88.24	87.61	87.44	87.17	85.97	85.06	84.35	83.68	82.89	82.48	82.78	83.05	-

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

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

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

<sup>4</sup> See footnote 1, table B-5.

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

p=preliminary.

## C-10. Hours of wage and salary workers<sup>1</sup> in nonagricultural establishments by industry division

Industry division	Millions of hours (Annual rate) <sup>2</sup>			Percent change		
	JULY 1980	AUGUST p1980	SEPTEMBER p1980	Sept. 1979 to Sept. 1980	July 1980 to Aug. 1980	Aug. 1980 to Sept. 1980
TOTAL.....	167,626	168,483	168,855	-1.0	0.5	0.2
PRIVATE SECTOR.....	135,568	136,619	137,407	-1.2	0.8	0.6
MINING.....	2,229	2,283	2,303	3.8	2.4	0.9
CONSTRUCTION.....	8,336	8,303	8,609	-2.7	-0.4	3.7
MANUFACTURING.....	40,591	40,974	41,189	-6.0	0.9	0.5
DURABLE GOODS.....	24,485	24,687	24,889	-7.9	0.8	0.8
NONDURABLE GOODS.....	16,106	16,288	16,300	-2.9	1.1	0.1
TRANSPORTATION AND PUBLIC UTILITIES.....	10,545	10,567	10,594	-1.2	0.2	0.3
WHOLESALE AND RETAIL TRADE.....	33,985	34,468	34,508	-0.3	1.4	0.1
FINANCE, INSURANCE, AND REAL ESTATE.....	9,712	9,761	9,792	3.4	0.5	0.3
SERVICES.....	30,169	30,262	30,412	3.5	0.3	0.5
GOVERNMENT.....	32,058	31,864	31,447	0.0	-0.6	-1.3

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

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

**PRODUCTIVITY  
SEASONALLY ADJUSTED**

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

[1967 = 100]

Item	Annual average		Quarterly indexes										
	1978	1979	1977	1978				1979				1980	
			IV	I	II	III	IV	I	II	III	IV	I	II
<b>PRIVATE BUSINESS SECTOR:</b>													
Output per hour of all persons .....	119.3	118.3	119.0	118.5	119.1	119.7	119.8	118.9	118.3	117.8	117.7	117.7	117.1
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	140.6
Hours .....	118.0	121.8	114.3	115.4	117.8	118.4	120.2	121.5	121.3	122.0	123.0	123.1	120.1
Compensation per hour .....	231.4	253.1	218.8	224.6	228.8	233.7	238.4	244.8	250.4	255.7	260.3	267.6	275.3
Real compensation per hour .....	118.4	116.4	117.9	118.8	118.3	118.2	117.9	117.9	117.0	115.8	114.2	112.9	112.4
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	235.1
Unit nonlabor payments .....	174.3	184.4	168.5	164.8	173.9	177.0	181.3	180.8	183.7	185.6	188.3	190.0	193.1
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	220.6
<b>NONFARM BUSINESS SECTOR:</b>													
Output per hour of all persons .....	116.9	115.7	116.4	116.2	116.7	117.4	117.6	116.6	115.4	115.0	115.2	114.9	114.1
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	141.2
Hours .....	121.0	125.3	117.2	118.2	120.9	121.6	123.3	124.8	124.9	125.7	126.2	126.7	123.8
Compensation per hour .....	227.5	247.9	215.1	221.0	224.9	229.5	234.4	240.2	244.9	249.9	255.6	262.2	269.0
Real compensation per hour .....	116.4	114.0	115.9	116.9	116.3	116.1	115.9	115.7	114.4	113.2	112.1	110.6	109.9
Unit labor costs .....	194.6	214.4	184.8	190.2	192.8	195.6	199.3	206.0	212.1	217.3	221.8	228.2	235.8
Unit nonlabor payments .....	169.9	178.6	165.9	161.1	169.1	173.0	176.1	174.3	177.6	180.5	182.5	185.9	191.1
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	213.7	220.5
<b>MANUFACTURING:</b>													
Output per hour of all persons .....	128.2	129.2	128.3	126.3	127.7	129.3	129.5	128.3	128.8	129.6	129.1	128.4	127.0
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	129.5
Hours .....	104.9	107.3	102.0	103.1	104.6	105.0	106.7	108.6	107.6	106.9	106.9	107.2	102.0
Compensation per hour .....	229.9	250.8	218.3	223.9	227.1	231.7	236.6	242.3	248.0	252.7	258.0	264.6	274.1
Real compensation per hour .....	117.6	115.3	117.6	118.4	117.5	117.2	117.0	116.7	115.9	114.4	113.2	111.6	112.0
Unit labor costs .....	179.4	194.1	170.1	177.2	177.9	179.1	182.7	189.0	192.6	195.0	199.8	206.0	215.9
<b>DURABLE GOODS</b>													
Output per hour of all persons .....	121.4	121.3	122.3	119.6	121.4	122.5	122.4	120.9	121.4	121.1	120.6	119.4	118.5
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	122.3
Hours .....	106.8	110.3	102.7	104.2	105.9	107.2	109.6	112.0	110.6	110.0	109.8	110.1	103.2
Compensation per hour .....	231.1	251.8	220.3	225.4	228.5	232.7	237.7	243.4	249.0	253.6	258.5	266.3	276.5
Real compensation per hour .....	118.3	115.8	118.7	119.2	118.1	117.7	117.6	117.2	116.3	114.8	113.4	112.3	113.0
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	223.1	233.3
<b>NONDURABLE GOODS</b>													
Output per hour of all persons .....	139.3	142.4	138.3	137.5	138.0	140.6	141.4	140.7	141.2	144.0	143.4	143.7	140.8
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	141.2
Hours .....	102.1	102.7	100.8	101.5	102.7	101.9	102.4	103.4	103.2	102.2	102.5	102.8	100.2
Compensation per hour .....	226.7	247.2	214.3	220.6	224.2	228.7	232.9	238.6	244.5	249.3	255.4	259.6	269.1
Real compensation per hour .....	116.0	113.7	115.5	116.7	115.9	115.7	115.2	114.9	114.3	112.9	112.0	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	191.1
<b>NONFINANCIAL CORPORATIONS:</b>													
Output per all-employee hour .....	118.0	117.5	116.9	116.9	118.0	118.5	118.8	118.1	117.3	117.2	117.1	117.1	116.7
Output .....	150.0	154.7	143.4	144.7	149.7	151.4	154.2	155.1	154.1	154.3	155.1	155.4	151.0
Hours .....	127.1	131.6	122.7	123.8	126.9	127.8	129.8	131.4	131.4	131.7	132.4	132.7	129.4
Compensation per hour .....	225.0	244.9	213.2	219.0	222.6	226.9	231.3	237.3	242.1	247.1	252.1	258.8	265.7
Real compensation per hour .....	115.2	112.7	114.9	115.8	115.1	114.8	114.4	114.3	113.1	111.9	110.6	109.2	108.5
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	224.3	233.2
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	227.6
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	234.4	250.7
Unit profits .....	127.2	127.8	122.2	107.1	129.2	132.7	138.7	130.3	129.2	127.5	124.0	120.5	110.9
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	215.0

p=preliminary.

**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 to I 1979	I 1979 to II 1979	II 1979 to III 1979	III 1979 to IV 1979	IV 1979 to I 1980	I 1980 to II 1980	I 1978 to I 1979	II 1978 to II 1979	III 1978 to III 1979	IV 1978 to IV 1979	I 1979 to I 1980	II 1979 to II 1980
	<b>PRIVATE BUSINESS SECTOR:</b>											
Output per hour of all persons .....	-3.1	-2.0	-1.4	-0.3	-0.3	-1.9	0.3	-0.7	-1.6	-1.7	-1.0	-1.0
Output .....	1.2	-2.9	1.1	2.8	0.2	-11.3	5.5	2.2	1.4	0.5	0.3	-2.0
Hours .....	4.5	-0.9	2.5	3.1	0.5	-9.5	5.3	2.9	3.0	2.3	1.3	-1.0
Compensation per hour .....	11.0	9.5	8.7	7.5	11.7	11.9	9.0	9.4	9.4	9.2	9.3	9.9
Real compensation per hour .....	-0.2	-2.9	-4.1	-5.4	-4.5	-1.6	-0.8	-1.1	-2.1	-3.2	-4.2	-3.9
Unit labor costs .....	14.6	11.8	10.3	7.8	12.1	14.1	8.7	10.2	11.2	11.1	10.5	11.0
Unit nonlabor payments .....	-1.0	6.5	4.2	5.9	3.8	6.6	9.7	5.7	4.8	3.9	5.1	5.1
Implicit price deflator .....	9.3	10.1	8.3	7.2	9.4	11.8	9.0	8.7	9.1	8.7	8.8	9.2
<b>NONFARM BUSINESS SECTOR:</b>												
Output per hour of all persons .....	-3.3	-3.9	-1.5	0.8	-1.1	-2.9	0.4	-1.1	-2.0	-2.0	-1.4	-1.2
Output .....	1.2	-3.6	1.2	2.5	0.2	-11.5	5.9	2.2	1.3	0.3	0.1	-2.1
Hours .....	4.7	0.4	2.7	1.7	1.3	-8.8	5.5	3.3	3.4	2.4	1.5	-0.9
Compensation per hour .....	10.2	8.1	8.5	9.5	10.7	10.7	8.7	8.9	8.9	9.1	9.2	9.8
Real compensation per hour .....	-0.9	-4.2	-4.4	-3.6	-5.3	-2.6	-1.0	-1.6	-2.5	-3.3	-4.4	-4.0
Unit labor costs .....	14.0	12.5	10.1	8.6	12.0	14.1	8.3	10.1	11.1	11.3	10.8	11.2
Unit nonlabor payments .....	-3.9	7.7	6.6	4.6	7.5	11.7	8.2	5.0	4.3	3.7	6.6	7.6
Implicit price deflator .....	8.1	11.0	9.0	7.4	10.6	13.3	8.3	8.5	9.0	8.9	9.5	10.1
<b>MANUFACTURING:</b>												
Output per hour of all persons .....	-3.8	1.7	2.5	-1.4	-2.2	-4.5	1.5	0.9	0.2	-0.3	0.1	-1.4
Output .....	3.2	-2.0	-0.3	-1.4	-0.9	-21.7	6.9	3.8	1.9	-0.1	-1.1	-6.6
Hours .....	7.3	-3.6	-2.7	-0.1	1.3	-18.0	5.3	2.9	1.7	0.2	-1.3	-5.2
Compensation per hour .....	10.1	9.6	7.8	8.8	10.5	15.2	8.2	9.2	9.1	9.1	9.2	10.5
Real compensation per hour .....	-0.9	-2.8	-4.9	-4.2	-5.5	1.3	-1.5	-1.3	-2.4	-3.3	-4.4	-3.4
Unit labor costs .....	14.5	7.9	5.2	10.3	13.0	20.7	6.6	8.2	8.9	9.4	9.0	12.1
<b>DURABLE GOODS</b>												
Output per hour of all persons .....	-4.9	1.7	-1.1	-1.4	-4.1	-2.8	1.1	0.0	-1.2	-1.4	-1.2	-2.4
Output .....	3.9	-3.6	-3.0	-2.3	-2.8	-25.2	8.7	4.4	1.4	-1.3	-2.9	-8.9
Hours .....	9.3	-5.2	-1.9	-0.9	1.3	-23.0	7.5	4.4	2.7	0.2	-1.7	-6.7
Compensation per hour .....	9.8	9.6	7.6	8.1	12.6	16.2	8.0	9.0	9.0	8.7	9.4	11.1
Real compensation per hour .....	-1.3	-2.9	-5.1	-4.8	-3.7	2.2	-1.7	-1.5	-2.5	-3.5	-4.1	-2.9
Unit labor costs .....	15.4	7.7	8.8	9.6	17.4	19.6	6.8	9.0	10.3	10.3	10.8	13.7
<b>NONDURABLE GOODS</b>												
Output per hour of all persons .....	-2.0	1.4	8.2	-1.5	0.7	-7.7	2.3	2.3	2.4	1.5	2.2	-0.2
Output .....	2.1	0.5	3.9	-0.2	2.0	-16.6	4.3	2.8	2.7	1.6	1.5	-3.1
Hours .....	4.2	-0.9	-4.0	1.3	1.2	-9.7	1.9	0.5	0.3	0.1	-0.6	-2.9
Compensation per hour .....	10.2	10.3	7.9	10.3	6.7	15.5	8.1	9.1	9.0	9.7	8.8	10.1
Real compensation per hour .....	-0.9	-2.2	-4.8	-2.9	-8.8	1.6	-1.5	-1.4	-2.4	-2.7	-4.7	-3.8
Unit labor costs .....	12.5	8.8	-0.2	11.9	5.9	25.2	5.7	6.7	6.4	8.1	6.5	10.3
<b>NONFINANCIAL CORPORATIONS:</b>												
Output per all-employee hour .....	-2.3	-2.7	-0.3	-0.4	-0.1	-1.1	1.0	-0.6	-1.1	-1.4	-0.9	-0.5
Output .....	2.5	-2.6	0.6	1.9	0.8	-10.7	7.2	2.9	1.9	0.6	0.2	-2.0
Hours .....	4.9	0.1	0.9	2.3	0.9	-9.8	6.1	3.6	3.1	2.0	1.0	-1.5
Compensation per hour .....	10.8	8.3	8.5	8.4	11.0	11.1	8.4	8.7	8.9	9.0	9.0	9.7
Real compensation per hour .....	-0.4	-4.1	-4.3	-4.5	-5.1	-2.3	-1.3	-1.8	-2.6	-3.3	-4.5	-4.1
Total unit costs .....	11.7	11.8	10.2	9.3	12.2	16.8	6.1	8.6	9.9	10.8	10.9	12.1
Unit labor costs .....	13.4	11.2	8.8	8.9	11.1	12.3	7.3	9.4	10.1	10.6	10.0	10.3
Unit nonlabor costs .....	6.8	13.5	14.6	10.6	15.4	31.0	2.5	6.2	9.4	11.3	13.5	17.6
Unit profits .....	-22.1	-3.4	-5.3	-10.4	-10.9	-28.2	21.7	0.0	-3.9	-10.6	-7.6	-14.2
Implicit price deflator .....	7.6	10.2	8.6	7.3	9.9	12.3	7.5	7.7	8.4	8.4	9.0	9.5

p=preliminary.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
<b>ALABAMA</b> .....	\$244.96	\$254.52	\$253.84	41.1	39.4	39.6	5.95	6.46	6.41
Birmingham .....	290.05	304.96	284.94	41.2	41.1	39.2	7.04	7.42	7.27
Mobile .....	308.17	335.13	337.74	42.1	43.7	43.3	7.32	7.67	7.90
<b>ALASKA</b> .....	578.40	(*)	(*)	45.7	(*)	(*)	8.20	(*)	(*)
<b>ARIZONA</b> .....	275.93	290.14	297.82	41.0	39.8	40.3	6.73	7.29	7.36
Phoenix .....	272.97	286.63	298.56	40.5	39.7	40.4	6.74	7.22	7.39
Tucson .....	255.47	274.48	282.94	38.7	37.6	38.5	6.60	7.30	7.35
<b>ARKANSAS</b> .....	210.40	219.08	225.42	40.0	38.1	39.0	5.26	5.75	5.74
Fayetteville—Springdale .....	184.86	194.81	193.50	39.0	37.9	37.5	4.74	5.14	5.16
Fort Smith .....	215.12	215.28	217.71	39.4	36.8	36.9	5.46	5.85	5.90
Little Rock—North Little Rock .....	234.42	257.52	267.73	39.8	38.9	39.9	5.89	6.62	6.71
Pine Bluff .....	291.38	336.96	322.14	42.6	41.6	42.0	6.34	8.10	7.67
<b>CALIFORNIA</b> .....	235.51	303.03	310.08	40.1	39.0	39.5	7.12	7.77	7.95
Anaheim—Santa Ana—Garden Grove .....	258.55	284.72	297.53	39.9	39.6	40.1	6.48	7.19	7.37
Bakersfield .....	306.03	322.25	329.51	39.9	38.5	39.7	7.67	8.37	8.30
Fresno .....	261.14	266.72	263.87	40.3	37.2	39.1	6.48	7.17	7.26
Los Angeles—Long Beach .....	267.47	288.51	291.80	40.1	39.2	39.7	6.67	7.38	7.35
Modesto .....	268.35	301.09	328.78	38.5	38.7	41.2	6.97	7.78	7.98
Oxnard—Simi Valley—Ventura .....	252.41	260.57	263.93	39.5	38.2	38.7	6.39	6.82	6.82
Riverside—San Bernardino—Ontario .....	293.38	294.46	299.52	40.3	37.8	38.4	7.28	7.79	7.80
Sacramento .....	309.87	321.86	347.94	40.4	38.0	40.6	7.67	8.47	8.57
Salinas—Seaside—Monterey .....	262.13	279.00	278.99	37.5	37.5	37.1	6.99	7.44	7.52
San Diego .....	258.14	289.64	293.61	38.3	39.3	39.2	6.74	7.37	7.49
San Francisco—Oakland .....	339.15	369.21	365.59	39.9	38.9	39.1	8.50	9.26	9.35
San Jose .....	302.82	320.74	327.60	41.2	39.5	40.0	7.35	8.12	8.19
Santa Barbara—Santa Maria—Lompoc .....	239.94	260.88	259.24	37.2	37.7	37.3	6.45	6.92	6.95
Santa Rosa .....	256.97	279.80	282.57	38.7	38.7	39.3	6.64	7.23	7.18
Stockton .....	306.82	321.54	334.03	40.8	38.6	40.1	7.52	8.33	8.32
Vallejo—Fairfield—Napa .....	310.95	301.55	321.98	40.7	37.0	38.7	7.64	8.15	8.37
<b>COLORADO</b> .....	259.17	281.64	288.41	39.7	38.9	39.4	6.76	7.24	7.32
Denver—Boulder .....	266.74	283.63	288.86	39.4	38.8	39.3	6.77	7.31	7.35
<b>CONNECTICUT</b> .....	264.95	293.23	294.47	41.4	41.3	41.3	6.40	7.10	7.13
Bridgeport .....	261.35	313.00	307.65	42.5	42.9	41.8	6.62	7.31	7.36
Hartford .....	290.50	311.83	323.94	41.5	41.2	42.4	7.00	7.57	7.64
New Britain .....	278.99	319.17	297.34	42.4	42.2	40.9	6.58	7.35	7.27
New Haven—West Haven .....	270.85	280.80	287.98	41.1	40.0	40.6	6.59	7.02	6.97
Stamford .....	272.43	284.14	276.75	42.7	42.6	41.0	6.38	6.67	6.75
Waterbury .....	237.38	244.58	243.19	41.5	40.9	40.6	5.72	5.98	5.99
<b>DELAWARE</b> .....	275.90	297.86	296.91	39.9	39.4	39.8	7.09	7.56	7.45
Wilmington .....	317.82	350.66	347.67	39.2	39.4	39.6	8.32	8.90	8.32
<b>DISTRICT OF COLUMBIA:</b>									
Washington SMSA <sup>a</sup> .....	305.31	325.71	330.08	38.5	38.5	39.2	7.93	8.44	8.65
<b>FLORIDA</b> .....	222.00	236.98	245.43	40.0	39.3	40.5	5.55	6.03	6.06
Fort Lauderdale—Hollywood .....	204.73	222.48	222.55	39.6	39.8	39.6	5.17	5.59	5.62
Jacksonville .....	271.65	275.92	297.49	41.6	39.7	41.9	6.53	6.95	7.10
Lakeland—Winter Haven .....	265.61	284.92	256.09	42.4	41.9	43.8	6.12	6.80	6.76
Miami .....	193.75	207.97	209.75	39.3	39.1	39.5	4.93	5.37	5.31
Orlando .....	240.53	264.58	257.26	41.4	41.6	40.9	5.81	6.36	6.29
Pensacola .....	297.79	289.88	298.49	43.6	40.6	41.4	6.83	7.14	7.21
Tampa—St. Petersburg .....	235.09	247.47	248.27	41.1	39.1	40.7	5.72	6.15	6.10
West Palm Beach—Boca Raton .....	242.75	226.36	233.78	39.6	38.0	40.1	6.13	5.97	5.83
<b>GEORGIA</b> .....	268.82	225.01	230.26	39.7	39.2	39.7	6.76	5.74	5.30
Atlanta .....	232.64	266.56	267.03	38.2	38.8	38.7	6.09	6.37	6.90
Savannah .....	288.97	315.00	334.61	41.4	42.0	43.4	6.98	7.50	7.71
<b>HAWAII</b> .....	237.37	251.69	257.84	39.3	35.4	37.1	6.04	7.11	6.95
Honolulu .....	227.15	253.79	(*)	38.5	35.2	(*)	5.90	7.21	(*)
<b>IDAHO</b> .....	267.68	290.18	281.60	39.3	36.5	37.2	7.32	7.95	7.57
Boise City .....	247.20	275.80	(*)	39.3	38.9	(*)	6.29	7.09	(*)

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		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
<b>ILLINOIS</b> .....	\$501.87	\$311.81	\$314.70	40.9	38.4	38.9	\$7.39	\$8.12	\$8.09
Bloomington—Normal .....	274.51	266.02	256.28	41.3	35.9	34.4	6.64	7.41	7.45
Champaign—Urbana—Rantoul .....	262.30	239.77	227.73	38.7	34.8	33.1	6.78	6.39	6.88
Chicago SMSA .....	285.16	292.99	297.55	40.3	38.4	39.1	7.08	7.63	7.61
Davenport—Rock Island—Moline .....	340.72	368.16	366.37	39.4	39.0	39.1	8.81	9.44	9.37
Decatur .....	343.01	340.20	344.84	42.0	36.0	37.2	8.16	9.45	9.27
Peoria .....	303.35	375.65	373.16	39.5	36.4	36.3	9.19	10.32	10.28
Rockford .....	301.47	259.89	306.54	41.7	38.3	39.1	7.23	7.83	7.84
Springfield .....	318.73	316.03	322.65	41.8	33.4	39.3	7.63	8.23	8.21
<b>INDIANA</b> .....	313.13	324.86	334.05	40.3	38.4	39.3	7.77	8.46	8.50
Gary—Hammond—East Chicago .....	431.09	417.28	(*)	40.9	36.7	(*)	10.54	11.37	(*)
Indianapolis .....	314.06	328.89	(*)	41.0	39.2	(*)	7.66	8.39	(*)
<b>IOWA</b> .....	300.31	344.37	330.89	38.9	39.0	38.7	7.72	8.33	8.55
Cedar Rapids .....	315.59	336.30	342.38	40.1	38.0	38.6	7.87	8.85	8.87
Des Moines .....	322.79	332.05	351.78	39.9	37.1	38.7	8.09	8.95	9.09
Dubuque .....	334.88	453.63	377.85	37.5	47.5	37.3	8.93	9.55	10.13
Sioux City .....	293.41	340.31	339.49	41.5	41.1	41.1	7.07	8.28	8.26
Waterloo—Cedar Falls .....	438.22	520.88	492.95	45.6	47.7	37.8	9.61	10.92	10.66
<b>KANSAS</b> .....	272.95	291.61	294.74	40.8	39.3	40.1	6.69	7.42	7.35
Topeka .....	276.29	300.49	307.97	40.1	39.8	40.1	6.89	7.55	7.68
Wichita .....	291.17	321.44	334.14	41.3	39.2	40.6	7.05	8.20	8.23
<b>KENTUCKY</b> .....	267.54	274.53	289.45	39.0	37.3	38.8	6.86	7.36	7.46
Lexington—Fayette .....	262.88	277.81	276.53	39.0	37.9	38.8	6.74	7.33	7.22
Louisville .....	314.36	290.44	327.25	40.2	34.7	38.5	7.82	8.37	8.50
<b>LOUISIANA</b> .....	291.07	320.69	319.93	41.7	40.8	40.6	6.98	7.86	7.88
Baton Rouge .....	305.85	431.27	413.84	42.1	43.3	42.1	6.89	9.96	9.83
New Orleans .....	288.14	301.37	317.20	41.4	39.1	40.0	6.96	7.70	7.93
Shreveport .....	257.40	261.07	258.55	40.6	37.5	37.8	6.34	6.96	6.84
<b>MAINE</b> .....	218.80	241.79	240.60	40.0	39.9	40.1	5.47	6.06	6.00
Lewiston—Auburn .....	178.69	196.56	193.67	38.1	39.0	38.2	4.69	5.04	5.07
Portland .....	206.90	236.19	229.88	38.6	39.3	38.7	5.36	6.01	5.94
<b>MARYLAND</b> .....	284.80	299.10	298.33	40.0	39.2	39.1	7.12	7.63	7.63
Baltimore .....	303.16	314.82	315.62	40.1	39.7	39.7	7.56	7.93	7.95
<b>MASSACHUSETTS</b> .....	(*)	253.76	257.15	(*)	39.1	39.5	(*)	6.49	6.51
Boston .....	(*)	277.07	278.84	(*)	39.3	39.3	(*)	7.05	7.09
Brockton .....	(*)	198.78	207.41	(*)	38.3	39.0	(*)	5.19	5.19
Fall River .....	(*)	187.31	187.98	(*)	36.3	36.5	(*)	5.16	5.15
Lawrence—Haverhill .....	(*)	268.37	269.84	(*)	40.6	40.7	(*)	6.61	6.63
Lowell .....	(*)	218.65	233.61	(*)	36.2	39.0	(*)	6.04	5.99
New Bedford .....	(*)	214.64	212.82	(*)	37.2	37.6	(*)	5.77	5.66
Springfield—Chicopee—Holyoke .....	(*)	255.17	261.30	(*)	39.5	40.2	(*)	6.46	6.50
Worcester .....	(*)	256.50	259.38	(*)	39.1	39.3	(*)	6.56	6.60
<b>MICHIGAN</b> .....	(*)	373.43	369.53	(*)	39.6	39.4	(*)	9.43	9.38
Ann Arbor .....	(*)	400.08	359.16	(*)	40.1	36.1	(*)	9.98	9.95
Battle Creek .....	(*)	382.16	380.33	(*)	40.5	40.4	(*)	9.44	9.41
Bay City .....	(*)	336.35	342.55	(*)	39.8	40.5	(*)	8.45	8.46
Detroit .....	(*)	405.77	406.02	(*)	40.1	40.2	(*)	10.12	10.10
Flint .....	(*)	436.72	433.60	(*)	40.8	40.1	(*)	10.70	10.81
Grand Rapids .....	(*)	306.68	312.88	(*)	38.6	39.5	(*)	7.95	7.92
Jackson .....	(*)	335.36	366.35	(*)	39.9	42.5	(*)	8.41	8.62
Kalamazoo—Portage .....	(*)	335.58	345.29	(*)	38.8	39.9	(*)	8.65	8.65
Lansing—East Lansing .....	(*)	350.16	346.65	(*)	35.1	36.2	(*)	9.98	9.58
Muskegon—Norton Shores—Muskegon Heights .....	(*)	326.52	335.05	(*)	39.8	40.3	(*)	8.20	8.31
Saginaw .....	(*)	402.83	406.13	(*)	38.7	39.3	(*)	10.41	10.33
<b>MINNESOTA</b> .....	277.89	289.94	292.22	40.1	38.1	38.4	6.93	7.61	7.61
Duluth—Superior .....	260.63	263.85	263.13	38.9	35.8	35.8	6.70	7.37	7.35
Minneapolis—St. Paul .....	300.11	310.18	313.78	40.5	38.2	38.5	7.41	8.12	8.15
St. Cloud .....	211.84	205.51	207.62	38.1	33.2	32.8	5.56	6.19	6.33

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		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
<b>MISSISSIPPI</b> .....	\$198.80	\$206.12	\$216.15	40.0	38.1	39.3	\$4.97	\$5.41	\$5.50
Jackson .....	217.34	232.25	236.39	40.7	39.7	40.1	5.34	5.85	5.87
<b>MISSOURI</b> .....	261.58	279.13	283.14	39.1	38.5	39.0	6.65	7.25	7.26
Kansas City .....	300.00	308.80	315.22	40.0	38.6	39.6	7.65	8.00	7.96
St. Joseph.....	245.86	276.40	275.42	39.4	40.0	39.8	6.24	6.91	6.92
St. Louis.....	294.45	320.19	322.22	39.0	39.0	39.2	7.55	8.21	8.22
Springfield.....	259.80	251.46	277.06	39.9	38.1	41.6	6.01	6.60	6.66
<b>MONTANA</b> .....	300.48	375.90	364.72	43.3	42.0	40.3	8.51	8.95	9.05
<b>NEBRASKA</b> .....	270.50	297.00	292.67	40.3	39.6	40.4	6.63	7.30	7.45
Lincoln.....	255.84	288.64	281.39	39.0	38.5	38.6	6.56	7.36	7.29
Omaha.....	286.74	305.63	307.57	40.5	39.9	40.1	7.08	7.66	7.67
<b>NEVADA</b> .....	276.50	296.11	306.82	39.5	37.2	37.6	7.00	7.96	8.15
Las Vegas.....	349.32	360.60	(*)	38.9	38.9	(*)	8.98	9.27	(*)
<b>NEW HAMPSHIRE</b> .....	(*)	229.32	231.28	(*)	39.0	39.4	(*)	5.88	5.87
Manchester <sup>1</sup> .....	(*)	210.75	210.06	(*)	39.1	38.9	(*)	5.39	5.40
Nashua.....	(*)	243.32	246.09	(*)	39.5	39.5	(*)	6.16	6.23
<b>NEW JERSEY</b> .....	275.16	293.13	294.98	41.2	40.6	40.8	6.63	7.22	7.23
Atlantic City.....	200.60	201.12	195.89	38.8	36.7	37.1	5.17	5.48	5.28
Camden <sup>1</sup> .....	268.77	268.40	300.29	40.6	40.0	40.8	6.62	7.41	7.36
Hackensack <sup>2</sup> .....	256.81	269.34	274.21	42.1	41.5	41.8	6.10	6.49	6.56
Jersey City <sup>3</sup> .....	267.65	288.80	295.00	40.8	40.0	40.3	6.56	7.22	7.32
New Brunswick—Perth Amboy—Sayreville <sup>2</sup> .....	296.68	324.39	330.48	40.2	39.9	40.7	7.38	8.13	8.12
Newark <sup>2</sup> .....	273.46	256.46	305.76	42.0	40.5	41.6	6.63	7.32	7.35
Paterson—Clifton—Passaic <sup>3</sup> .....	256.88	267.70	275.93	41.1	39.6	40.4	6.25	6.76	6.83
Trenton.....	282.69	290.16	296.07	40.5	39.0	38.5	6.98	7.44	7.65
<b>NEW MEXICO</b> .....	215.67	228.89	224.45	39.5	39.6	38.9	5.46	6.76	5.77
Albuquerque.....	214.92	249.69	244.62	39.8	41.0	40.2	5.40	6.09	6.07
<b>NEW YORK</b> .....	236.33	279.03	(*)	39.5	36.7	(*)	6.54	7.21	(*)
Albany—Schenectady—Troy <sup>2</sup> .....	282.20	302.44	(*)	40.2	39.9	(*)	7.02	7.58	(*)
Binghamton.....	242.90	268.71	(*)	41.1	40.9	(*)	5.91	6.57	(*)
Buffalo.....	342.66	368.95	(*)	40.6	39.8	(*)	8.44	9.27	(*)
Elmira.....	260.34	281.13	(*)	40.3	39.1	(*)	6.46	7.19	(*)
Monroe County <sup>3</sup> .....	334.54	366.06	(*)	41.2	40.9	(*)	8.12	8.95	(*)
Nassau—Suffolk <sup>4</sup> .....	244.55	271.17	(*)	39.7	39.3	(*)	6.16	6.90	(*)
New York—Northeastern New Jersey.....	246.48	264.41	(*)	39.5	38.6	(*)	6.24	6.35	(*)
New York and Nassau—Suffolk <sup>2</sup> .....	225.34	243.94	(*)	38.0	37.2	(*)	5.93	6.54	(*)
New York SMSA <sup>4</sup> .....	220.73	236.35	(*)	37.5	36.7	(*)	5.87	6.44	(*)
New York City <sup>2</sup> .....	216.50	234.33	(*)	37.2	36.5	(*)	5.82	6.42	(*)
Poughkeepsie.....	270.94	294.69	(*)	42.6	41.1	(*)	6.36	7.17	(*)
Rochester.....	314.77	343.80	(*)	41.2	40.4	(*)	7.64	8.51	(*)
Rockland County <sup>5</sup> .....	250.85	270.68	(*)	40.2	39.4	(*)	6.24	6.87	(*)
Syracuse.....	288.97	309.91	(*)	41.4	40.3	(*)	6.98	7.69	(*)
Utica—Rome.....	247.95	269.39	(*)	39.8	39.5	(*)	6.23	6.82	(*)
Westchester County <sup>5</sup> .....	252.13	252.18	(*)	40.6	38.5	(*)	6.21	6.55	(*)
<b>NORTH CAROLINA</b> .....	193.85	206.28	211.85	39.4	39.2	38.8	4.92	5.40	5.46
Asheville.....	191.52	203.70	205.35	39.9	38.8	38.6	4.80	5.25	5.32
Charlotte—Gastonia.....	200.29	204.37	214.63	40.3	38.2	39.6	5.35	5.42	5.42
Greensboro—Winston-Salem—High Point.....	211.29	226.86	232.70	39.2	38.0	38.4	4.97	5.97	6.06
Raleigh—Durham.....	225.60	246.36	246.48	40.0	39.8	39.5	5.64	6.19	6.24
<b>NORTH DAKOTA</b> .....	240.80	247.13	252.32	40.0	37.5	38.0	6.02	6.59	6.64
Fargo—Moorhead.....	261.76	267.89	272.69	39.6	36.3	36.9	6.61	7.38	7.39
<b>OHIO</b> .....	318.65	338.58	344.46	40.8	39.6	40.1	7.81	8.55	8.59
Akron.....	316.77	353.97	357.21	41.3	40.5	40.5	7.67	8.74	8.82
Canton.....	328.86	335.72	331.63	40.6	38.5	37.9	8.10	8.72	8.75
Cincinnati.....	304.61	324.82	334.56	41.5	40.2	41.0	7.34	8.08	8.16
Cleveland.....	326.72	336.08	342.34	41.2	39.4	39.9	7.93	8.53	8.58
Columbus.....	284.62	301.45	296.68	40.2	39.2	39.4	7.08	7.69	7.53
Dayton.....	323.01	342.15	353.50	41.2	40.3	41.2	7.84	8.46	8.58
Toledo.....	327.24	342.78	352.69	40.3	39.4	40.4	8.12	8.70	8.73
Youngstown—Warren.....	367.62	395.85	404.24	39.7	39.0	39.4	9.26	10.15	10.26

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		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
<b>OKLAHOMA</b> .....	\$265.02	\$295.50	\$285.48	40.4	39.4	39.0	\$6.56	\$7.50	\$7.32
Oklahoma City .....	268.38	325.60	297.20	41.1	40.7	38.9	6.53	8.90	7.64
Tulsa .....	283.11	306.91	304.20	40.1	38.8	38.9	7.06	7.91	7.82
<b>OREGON</b> .....	311.18	332.88	339.60	38.8	38.0	38.9	8.02	8.76	8.73
Eugene—Springfield .....	342.50	388.86	(*)	40.2	41.5	(*)	8.52	9.37	(*)
Jackson County .....	332.83	342.04	(*)	40.1	37.3	(*)	8.30	9.17	(*)
Portland .....	296.38	316.20	(*)	37.9	37.2	(*)	7.82	8.50	(*)
<b>PENNSYLVANIA</b> .....	279.49	287.65	290.70	39.7	38.2	38.2	7.04	7.53	7.61
Allentown—Bethlehem—Easton .....	285.31	303.34	305.47	38.4	38.3	37.9	7.43	7.92	8.06
Altoona .....	240.69	245.21	250.21	39.2	37.9	38.2	6.14	6.47	6.55
Delaware Valley .....	286.31	301.41	303.36	40.1	39.4	39.5	7.14	7.65	7.68
Erie .....	287.16	312.76	310.82	41.2	40.2	39.9	6.97	7.78	7.79
Harrisburg .....	264.55	282.10	282.98	40.7	39.4	39.8	6.50	7.16	7.11
Johnstown .....	303.03	320.66	307.92	38.8	37.2	36.3	7.81	8.62	8.48
Lancaster .....	244.41	251.29	257.28	40.6	38.9	39.4	6.02	6.46	6.53
Northeast Pennsylvania .....	198.35	211.63	211.94	36.8	36.3	35.8	5.39	5.83	5.92
Philadelphia SMSA .....	283.11	300.60	302.91	40.1	39.5	39.7	7.06	7.61	7.63
Pittsburgh .....	300.61	339.53	344.25	40.3	37.6	37.5	8.70	9.08	9.18
Reading .....	250.87	269.27	278.39	38.3	38.8	39.6	6.55	6.94	7.03
Scranton .....	193.96	204.99	209.09	37.3	35.9	36.3	5.20	5.71	5.76
Wilkes-Barre—Hazleton .....	200.56	215.72	213.11	36.4	36.5	35.4	5.51	5.91	6.02
Williamsport .....	247.74	275.97	273.78	39.2	39.2	39.0	6.32	7.04	7.02
York .....	261.46	259.68	264.06	41.7	38.7	39.3	6.27	6.71	6.77
<b>RHODE ISLAND</b> .....	195.71	218.96	214.66	38.3	39.1	38.4	5.11	5.60	5.59
Providence—Warwick—Pawtucket .....	195.20	217.40	212.35	38.5	39.1	38.4	5.07	5.56	5.53
<b>SOUTH CAROLINA</b> .....	210.08	217.67	223.83	40.4	38.8	39.2	5.20	5.61	5.71
Charleston—North Charleston .....	229.89	253.04	258.70	39.5	39.6	39.8	5.82	6.39	6.50
Columbia .....	208.95	211.07	215.65	39.8	38.1	38.1	5.25	5.54	5.66
Greenville—Spartanburg .....	208.28	215.34	224.93	40.6	38.8	39.6	5.13	5.55	5.68
<b>SOUTH DAKOTA</b> .....	244.80	267.53	272.28	42.5	39.4	40.7	5.76	6.79	6.69
Rapid City .....	201.25	159.84	199.19	37.2	32.6	32.6	5.41	6.43	6.11
Sioux Falls .....	337.49	378.16	386.67	47.4	44.7	42.3	7.12	8.46	8.93
<b>TENNESSEE</b> .....	222.88	236.07	240.30	39.8	38.7	39.2	5.60	6.10	6.13
Chattanooga .....	227.05	230.08	234.99	40.4	39.6	39.1	5.62	5.81	6.01
Knoxville .....	261.79	280.14	283.61	40.4	38.8	39.5	6.48	7.22	7.18
Memphis .....	252.00	285.28	283.60	40.0	39.9	40.0	6.30	7.15	7.09
Nashville—Davidson .....	237.41	255.71	264.52	39.7	39.1	40.2	5.98	6.54	6.58
<b>TEXAS</b> .....	266.74	293.45	297.15	41.1	40.7	41.1	6.49	7.21	7.23
Amarillo .....	258.95	276.21	259.35	39.9	40.5	39.0	6.49	6.82	6.65
Austin .....	201.29	228.50	232.80	40.5	40.3	40.7	4.97	5.67	5.72
Beaumont—Port Arthur—Orange .....	384.08	428.08	425.43	42.3	42.3	42.8	9.08	10.12	9.94
Corpus Christi .....	293.41	309.06	263.25	41.5	40.4	34.1	7.07	7.65	7.72
Dallas—Fort Worth .....	249.04	267.53	274.86	41.3	39.4	40.6	6.03	6.79	6.77
El Paso .....	194.43	157.60	191.95	39.2	38.0	37.2	4.96	5.20	5.16
Galveston—Texas City .....	408.94	461.78	513.24	41.9	43.4	45.1	9.76	10.64	11.38
Houston .....	332.71	362.94	365.93	42.6	42.8	42.6	7.81	8.48	8.59
Lubbock .....	203.27	225.12	227.40	40.9	40.2	40.9	4.97	5.60	5.56
San Antonio .....	195.84	215.28	216.83	40.8	41.4	41.3	4.80	5.20	5.25
Waco .....	222.72	254.08	244.77	39.7	39.7	39.8	5.61	6.40	6.15
Wichita Falls .....	243.58	251.55	274.44	40.8	38.7	40.3	5.97	6.50	6.81
<b>UTAH</b> .....	245.85	267.20	268.61	38.9	37.9	38.1	6.32	7.05	7.05
Salt Lake City—Ogden .....	231.86	254.41	259.49	39.1	38.2	38.5	5.93	6.66	6.74
<b>VERMONT</b> .....	229.04	245.69	249.38	40.9	39.5	39.9	5.60	6.22	6.25
Burlington .....	259.62	271.70	274.73	42.7	41.8	41.5	6.08	6.50	6.62
Springfield .....	266.48	263.64	274.40	41.9	38.6	40.0	6.36	6.83	6.86
<b>VIRGINIA</b> .....	222.78	245.07	248.38	39.5	38.9	39.3	5.64	6.30	6.32
Bristol .....	198.02	204.04	209.02	36.4	36.5	36.8	5.44	5.59	5.68
Lynchburg .....	220.77	236.81	231.04	38.8	39.6	38.0	5.69	5.98	6.08
Norfolk—Virginia Beach—Portsmouth .....	256.41	261.88	267.65	40.7	39.5	40.8	6.30	6.63	6.56
Northern Virginia .....	254.70	271.21	281.39	40.3	38.8	39.8	6.32	6.99	7.07
Petersburg—Colonial Heights—Hopewell .....	282.41	300.99	297.94	38.9	39.5	39.0	7.26	7.62	7.64

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		
	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P	AUG. 1979	JULY 1980	AUG. 1980P
<b>VIRGINIA—Continued</b>									
Richmond.....	\$272.74	\$311.22	\$313.63	39.7	39.0	39.5	\$6.87	\$7.98	\$7.94
Roanoke.....	207.72	223.68	229.70	40.1	38.9	39.4	5.18	5.75	5.83
<b>WASHINGTON</b> .....	327.85	362.71	371.32	38.3	38.1	38.8	8.56	9.52	9.57
Seattle—Everett.....	340.26	362.32	370.56	39.2	37.9	38.6	8.68	9.56	9.60
Spokane.....	291.47	325.88	325.87	38.1	37.5	37.2	7.65	8.69	8.76
Tacoma.....	335.75	343.90	366.32	39.5	36.2	38.0	8.50	9.50	9.64
<b>WEST VIRGINIA</b> .....	295.96	305.47	314.63	39.2	37.9	38.7	7.55	8.06	8.13
Charleston.....	321.77	359.31	369.41	41.2	40.6	41.6	7.81	8.85	8.88
Huntington—Ashland.....	328.44	342.80	359.04	39.1	36.9	38.4	8.40	9.29	9.35
Parkersburg—Martetta.....	303.89	339.05	330.85	40.9	40.8	40.2	7.43	8.31	8.23
Wheeling.....	313.80	322.41	330.98	40.7	38.2	38.0	7.71	8.44	8.71
<b>WISCONSIN</b> .....	295.39	315.27	320.16	40.9	39.5	40.0	7.22	7.98	8.00
Appleton—Oshkosh.....	296.38	306.45	310.14	42.0	40.5	40.4	7.05	7.56	7.67
Eau Claire.....	298.24	322.61	324.24	41.5	40.8	40.7	7.18	7.91	7.96
Green Bay.....	305.06	331.42	329.02	42.4	41.4	41.4	7.20	8.00	7.95
Janesville—Beloit.....	291.17	311.29	336.35	38.7	40.1	40.5	7.53	7.76	8.31
Kenosha.....	362.65	361.32	366.32	41.6	39.4	38.8	8.72	9.18	9.45
La Crosse.....	222.82	272.43	279.23	40.2	40.0	40.0	5.55	6.81	6.97
Madison.....	293.36	326.63	324.02	40.2	38.8	39.8	7.30	8.42	8.15
Milwaukee.....	328.13	347.33	358.21	40.9	39.2	39.9	8.01	8.86	8.98
Racine.....	301.73	338.53	324.44	40.0	38.5	39.2	7.55	8.79	8.27
<b>WYOMING</b> .....	255.18	314.83	314.06	38.2	41.1	41.0	6.68	7.66	7.66
Casper.....	313.56	324.21	318.98	39.0	36.8	36.9	8.04	8.81	8.62
<b>VIRGIN ISLANDS</b> .....	275.11	279.33	271.23	41.0	40.6	41.2	6.71	6.86	7.07

<sup>1</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.  
<sup>2</sup> Subarea of New York—Northeastern New Jersey.  
<sup>3</sup> Subarea of Rochester Standard Metropolitan Statistical Area.  
<sup>4</sup> Area included in New York and Nassau-Suffolk combined SMSA's.  
<sup>5</sup> Subarea of New York Standard Metropolitan Statistical Area.  
<sup>6</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.  
<sup>7</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area:

Lackawanna County.  
<sup>8</sup> Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.  
<sup>9</sup> Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.  
p = preliminary.  
\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

# ESTABLISHMENT DATA LABOR TURNOVER

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

(Per 100 employees)

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

p=preliminary.

# ESTABLISHMENT DATA LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		July 1980	Aug. 1980 P	July 1980	Aug. 1980 P	July 1980	Aug. 1980 P	July 1980	Aug. 1980 P	July 1980	Aug. 1980 P	July 1980	Aug. 1980 P
-	<b>MANUFACTURING</b> .....	3.8	4.6	2.1	2.5	1.4	1.7	4.2	4.9	1.4	2.2	2.0	1.8
24, 25, 32-39	<b>DURABLE GOODS</b> .....	3.2	4.1	1.5	1.9	1.3	1.8	4.0	4.7	1.1	1.7	2.1	2.0
20-23, 26-31	<b>NONDURABLE GOODS</b> .....	4.7	5.2	2.9	3.4	1.6	1.6	4.6	5.3	1.8	3.0	1.9	1.4
	<b>DURABLE GOODS</b>												
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	5.9	6.8	3.2	4.3	2.5	2.3	5.2	6.3	2.2	3.3	2.1	1.9
242	Sawmills and planing mills .....	5.2	-	2.8	-	2.1	-	5.7	-	1.9	-	2.8	-
2421	Sawmills and planing mills, general .....	5.2	-	2.8	-	2.0	-	5.3	-	1.7	-	2.7	-
243	Millwork, plywood, and structural members .....	5.8	-	2.7	-	2.9	-	4.8	-	2.0	-	1.9	-
2431	Millwork .....	6.0	-	1.8	-	4.1	-	3.0	-	1.5	-	.8	-
244	Wooden containers .....	5.0	-	3.3	-	1.4	-	7.3	-	3.9	-	2.4	-
245	Wood buildings and mobile homes .....	10.9	-	6.2	-	4.6	-	6.0	-	3.8	-	1.0	-
2451	Mobile homes .....	11.5	-	7.1	-	4.4	-	6.5	-	4.3	-	.7	-
249	Miscellaneous wood products .....	4.1	-	2.7	-	1.3	-	5.9	-	2.3	-	2.6	-
25	<b>FURNITURE AND FIXTURES</b> .....	3.6	5.0	2.2	3.3	1.5	1.5	5.5	5.5	1.8	2.9	2.9	1.6
251	Household furniture .....	4.2	-	2.0	-	1.9	-	6.2	-	1.9	-	3.3	-
2511	Wood household furniture .....	4.6	-	2.2	-	2.4	-	7.9	-	2.2	-	4.8	-
2512	Upholstered household furniture .....	3.2	-	1.8	-	1.3	-	3.9	-	1.7	-	1.3	-
2515	Mattresses and bedspreads .....	4.5	-	2.6	-	1.6	-	5.5	-	1.6	-	2.1	-
252	Office furniture .....	2.1	-	1.3	-	.6	-	3.3	-	1.3	-	1.9	-
254	Partitions and fixtures .....	4.6	-	3.6	-	1.1	-	5.2	-	2.1	-	2.2	-
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	4.0	4.7	2.0	2.5	1.8	2.0	4.0	5.1	1.2	2.1	1.9	2.0
322	Glass and glassware, pressed or blown .....	3.1	-	1.4	-	1.3	-	3.8	-	.7	-	2.0	-
3221	Glass containers .....	3.3	-	1.6	-	1.4	-	2.5	-	1.0	-	.9	-
3229	Pressed and blown glass, nec .....	2.9	-	1.1	-	1.1	-	5.3	-	.5	-	3.2	-
323	Products of purchased glass .....	8.3	-	2.1	-	6.1	-	5.1	-	1.7	-	2.6	-
324	Cement, hydraulic .....	2.3	-	.5	-	1.7	-	2.0	-	.2	-	1.2	-
325	Structural clay products .....	4.1	-	2.3	-	1.7	-	5.7	-	2.0	-	2.9	-
326	Pottery and related products .....	3.4	-	1.8	-	1.4	-	4.2	-	1.5	-	1.8	-
327	Concrete, gypsum, and plaster products .....	4.5	-	3.2	-	1.3	-	3.9	-	1.5	-	1.6	-
329	Misc. nonmetallic mineral products .....	3.5	-	1.3	-	2.1	-	3.7	-	.9	-	2.0	-
33	<b>PRIMARY METAL INDUSTRIES</b> .....	3.5	4.4	.7	.9	2.6	3.3	5.3	4.8	.5	.9	3.8	2.8
331	Blast furnace and basic steel products .....	4.7	-	.3	-	4.1	-	6.7	-	.2	-	5.3	-
3312	Blast furnaces and steel mills .....	4.9	-	.2	-	4.3	-	7.1	-	.2	-	5.6	-
332	Iron and steel foundries .....	2.9	-	1.0	-	1.7	-	4.7	-	1.0	-	2.8	-
3321	Gray iron foundries .....	2.7	-	.9	-	1.7	-	4.3	-	1.1	-	2.4	-
3325	Steel foundries, nec .....	3.5	-	1.5	-	1.8	-	4.3	-	.8	-	2.5	-
333	Primary nonferrous metals .....	1.0	-	.7	-	.2	-	1.9	-	.4	-	.9	-
335	Nonferrous rolling and drawing .....	2.2	-	.7	-	1.4	-	3.3	-	.6	-	2.1	-
3351	Copper rolling and drawing .....	2.7	-	.5	-	2.1	-	3.9	-	.5	-	2.6	-
3353	Aluminum sheet, plate, and foil .....	1.7	-	.4	-	1.2	-	2.1	-	.3	-	1.3	-
3357	Nonferrous wire drawing and insulating .....	2.2	-	.6	-	1.4	-	4.4	-	.7	-	3.2	-
336	Nonferrous foundries .....	3.1	-	1.3	-	1.6	-	6.4	-	1.3	-	4.4	-
3361	Aluminum foundries .....	3.5	-	1.5	-	1.7	-	7.5	-	1.3	-	5.4	-
34	<b>FABRICATED METAL PRODUCTS</b> .....	4.0	4.7	1.9	2.2	1.9	2.2	4.4	4.6	1.3	1.9	2.3	1.8
341	Metal cans and shipping containers .....	4.6	-	1.0	-	3.3	-	3.7	-	.8	-	2.0	-
3411	Metal cans .....	4.7	-	.6	-	3.7	-	3.3	-	.5	-	1.9	-
342	Cutlery, hand tools, and hardware .....	3.2	-	1.2	-	1.9	-	5.9	-	1.0	-	4.2	-
3423, 5	Hand and edge tools, and hand saws and blades .....	2.5	-	1.2	-	1.4	-	3.3	-	1.0	-	2.1	-
3429	Hardware, nec .....	3.6	-	1.3	-	2.1	-	7.5	-	1.0	-	5.7	-
343	Plumbing and heating, except electric .....	3.5	-	1.1	-	2.4	-	3.3	-	1.1	-	1.9	-
344	Fabricated structural metal products .....	4.6	-	2.9	-	1.6	-	3.8	-	1.5	-	1.3	-
3441	Fabricated structural metal .....	3.9	-	2.6	-	1.1	-	3.8	-	1.7	-	1.2	-
3442	Metal doors, sash, and trim .....	7.9	-	4.9	-	3.0	-	4.0	-	2.4	-	.6	-
3443	Fabricated plate work (boiler shops) .....	2.3	-	1.6	-	.5	-	2.4	-	.9	-	.8	-
3444	Sheet metal work .....	6.1	-	3.3	-	2.7	-	5.3	-	1.9	-	2.3	-
345	Screw machine products, bolts, etc. ....	2.8	-	1.3	-	1.4	-	4.1	-	1.2	-	2.1	-
3451	Screw machine products .....	2.1	-	1.3	-	.8	-	4.5	-	1.4	-	2.4	-
3452	Bolts, nuts, rivets, and washers .....	3.5	-	1.3	-	1.9	-	3.7	-	1.0	-	1.7	-
346	Metal forgings and stampings .....	4.8	-	1.2	-	3.2	-	5.3	-	.8	-	3.6	-
3462	Iron and steel forgings .....	3.5	-	1.4	-	1.8	-	3.2	-	.7	-	1.6	-
3465	Automotive stampings .....	7.4	-	.2	-	6.0	-	8.6	-	.3	-	7.6	-
3469	Metal stampings, nec .....	3.8	-	1.7	-	2.1	-	4.3	-	1.3	-	2.2	-
347	Metal services, nec .....	4.5	-	3.0	-	1.3	-	6.5	-	2.0	-	3.3	-
348	Ordnance and accessories, nec .....	1.6	-	1.1	-	.3	-	1.7	-	.6	-	.5	-
349	Misc. fabricated metal products .....	3.1	-	1.5	-	1.4	-	4.1	-	1.3	-	2.0	-
3494	Valves and pipe fittings .....	2.1	-	1.3	-	.6	-	3.2	-	.9	-	1.6	-
3496	Misc. fabricated wire products .....	5.1	-	2.3	-	2.7	-	5.7	-	2.2	-	2.6	-

See footnotes at end of table.

# ESTABLISHMENT DATA LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		July 1980	Aug. 1980 <sup>P</sup>	July 1980	Aug. 1980 <sup>P</sup>	July 1980	Aug. 1980 <sup>P</sup>	July 1980	Aug. 1980 <sup>P</sup>	July 1980	Aug. 1980 <sup>P</sup>	July 1980	Aug. 1980 <sup>P</sup>
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2.2	2.7	1.3	1.5	0.6	0.9	3.2	3.7	0.9	1.5	1.6	1.4
351	Engines and turbines	2.7	-	.4	-	1.9	-	3.7	-	.3	-	2.4	-
3511	Turbines and turbine generator sets	1.3	-	.5	-	.1	-	1.8	-	.2	-	.2	-
3519	Internal combustion engines, nec	3.3	-	.4	-	2.6	-	4.5	-	.4	-	3.3	-
352	Farm and garden machinery	1.7	-	.8	-	.7	-	6.2	-	.9	-	4.5	-
3523	Farm machinery and equipment	1.8	-	.9	-	.8	-	5.5	-	.9	-	3.8	-
353	Construction and related machinery	1.9	-	1.4	-	.4	-	3.1	-	.8	-	1.7	-
3531	Construction machinery	1.0	-	.5	-	.4	-	3.3	-	.4	-	2.8	-
3533	Oil field machinery	3.5	-	3.3	-	(1)	-	2.3	-	1.4	-	.1	-
354	Metalworking machinery	1.9	-	1.1	-	.6	-	3.3	-	.9	-	1.4	-
3541	Machine tools, metal cutting types	1.4	-	1.2	-	.2	-	1.8	-	.6	-	.5	-
3544	Special dies, tools, jigs, and fixtures	2.6	-	1.5	-	.7	-	3.8	-	1.2	-	1.7	-
3545	Machine tool accessories	2.2	-	.8	-	1.1	-	3.2	-	.9	-	1.7	-
355	Special industry machinery	1.9	-	1.3	-	.4	-	2.5	-	.8	-	.9	-
3551	Food products machinery	1.7	-	1.4	-	.2	-	2.8	-	1.0	-	1.2	-
3552	Textile machinery	2.0	-	1.4	-	.3	-	3.1	-	1.2	-	1.0	-
356	General industrial machinery	2.3	-	1.0	-	.8	-	3.0	-	.7	-	1.7	-
3561	Pumps and pumping equipment	3.1	-	1.0	-	1.9	-	3.0	-	.6	-	1.9	-
3562	Ball and roller bearings	3.0	-	.6	-	.8	-	3.1	-	.6	-	1.7	-
3564	Blowers and fans	2.0	-	1.3	-	.5	-	3.8	-	.9	-	2.3	-
357	Office and computing machines	1.9	-	1.6	-	.1	-	1.7	-	.9	-	.2	-
3573	Electronic computing equipment	1.9	-	1.6	-	.1	-	1.7	-	.9	-	.1	-
358	Refrigeration and service machinery	3.2	-	1.5	-	1.3	-	3.9	-	.9	-	1.9	-
3585	Refrigeration and heating equipment	3.4	-	1.3	-	1.6	-	4.4	-	.9	-	2.2	-
359	Misc. machinery, except electrical	2.9	-	2.2	-	.5	-	3.9	-	1.5	-	1.7	-
36	<b>ELECTRIC AND ELECTRONIC EQUIPMENT</b>	2.5	3.3	1.4	1.5	.8	1.1	3.4	3.7	1.0	1.6	1.5	1.1
361	Electric distributing equipment	2.0	-	1.1	-	.5	-	2.8	-	.9	-	.9	-
3612	Transformers	1.7	-	.9	-	.4	-	2.1	-	.6	-	.7	-
3613	Switchgear and switchboard apparatus	2.2	-	1.2	-	.6	-	3.4	-	1.1	-	1.1	-
362	Electrical industrial apparatus	2.1	-	1.0	-	.8	-	3.4	-	.8	-	1.9	-
3621	Motors and generators	2.4	-	.8	-	1.3	-	3.7	-	.7	-	2.2	-
3622	Industrial controls	2.0	-	1.1	-	.4	-	3.2	-	1.0	-	1.4	-
363	Household appliances	3.0	-	.9	-	1.6	-	6.3	-	.8	-	4.5	-
3632	Household refrigerators and freezers	4.3	-	.2	-	2.5	-	16.9	-	.5	-	14.8	-
3633	Household laundry equipment	4.0	-	.2	-	3.8	-	2.0	-	.2	-	1.1	-
3634	Electric housewares and fans	3.1	-	2.2	-	.5	-	2.9	-	1.4	-	.6	-
364	Electric lighting and wiring equipment	2.5	-	1.1	-	1.2	-	4.0	-	.9	-	2.3	-
3641	Electric lamps	2.5	-	.5	-	1.7	-	2.0	-	.4	-	.9	-
3643	Current-carrying wiring devices	1.9	-	1.1	-	.5	-	3.3	-	.8	-	1.8	-
365	Radio and TV receiving equipment	3.6	-	.8	-	1.4	-	5.7	-	.9	-	3.4	-
3651	Radio and TV receiving sets	3.2	-	.7	-	.9	-	5.7	-	.8	-	3.3	-
366	Communication equipment	1.9	-	1.5	-	.1	-	2.3	-	.9	-	.6	-
3661	Telephone and telegraph apparatus	.9	-	.7	-	.1	-	1.8	-	.4	-	1.1	-
3662	Radio and TV communication equipment	2.3	-	1.8	-	.2	-	2.1	-	1.1	-	.4	-
367	Electronic components and accessories	2.7	-	1.9	-	.6	-	3.3	-	1.5	-	1.0	-
3671-3	Electronic tubes	1.6	-	.9	-	.1	-	2.5	-	.7	-	.9	-
3674	Semiconductors and related devices	2.0	-	1.7	-	.2	-	2.3	-	1.1	-	.3	-
3679	Electronic components, nec	3.5	-	2.3	-	1.0	-	3.8	-	1.8	-	1.2	-
369	Misc. electrical equipment and supplies	3.9	-	1.1	-	2.6	-	3.3	-	.8	-	1.9	-
3694	Engine electrical equipment	2.8	-	.5	-	1.9	-	3.3	-	.5	-	2.0	-
37	<b>TRANSPORTATION EQUIPMENT</b>	3.0	-	1.4	-	1.2	-	4.1	-	.8	-	2.6	-
371	Motor vehicles and equipment	2.6	-	.6	-	1.4	-	6.2	-	.5	-	4.9	-
3711	Motor vehicles and car bodies	1.6	-	.5	-	.5	-	5.9	-	.4	-	4.8	-
3713	Truck and bus bodies	3.3	-	1.5	-	1.8	-	8.3	-	.9	-	6.7	-
3714	Motor vehicle parts and accessories	3.4	-	.4	-	2.3	-	6.2	-	.5	-	4.7	-
3715,6	Truck trailers and motor homes	4.3	-	1.3	-	2.9	-	7.1	-	1.2	-	5.1	-
372	Aircraft and parts	1.9	-	1.4	-	.2	-	1.5	-	.8	-	.2	-
3721	Aircraft	1.7	-	1.2	-	.2	-	1.1	-	.6	-	.1	-
3724	Aircraft engines and engine parts	1.3	-	.9	-	.1	-	1.4	-	.5	-	.1	-
3728	Aircraft equipment, nec	3.1	-	2.7	-	.2	-	2.9	-	1.6	-	.4	-
373	Ship and boat building and repairing	7.1	-	3.3	-	3.7	-	5.0	-	1.7	-	2.2	-
3731	Ship building and repairing	7.3	-	3.2	-	3.9	-	4.6	-	1.4	-	2.2	-
3732	Boat building and repairing	6.6	-	3.6	-	2.9	-	6.7	-	2.8	-	2.3	-
374	Railroad equipment	2.1	-	.5	-	1.5	-	6.1	-	.3	-	5.1	-
376	Guided missiles, space vehicles, parts	3.2	-	2.5	-	.1	-	1.5	-	.6	-	.4	-
3761	Guided missiles and space vehicles	3.1	-	2.7	-	.1	-	1.1	-	.6	-	.1	-
379	Miscellaneous transportation equipment	9.1	-	4.6	-	4.0	-	3.6	-	1.9	-	.7	-
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b>	2.3	2.7	1.8	1.8	.4	.7	2.4	3.3	1.1	1.9	.7	.7
381	Engineering and scientific instruments	2.4	-	2.1	-	.2	-	1.7	-	1.1	-	.3	-
382	Measuring and controlling devices	2.0	-	1.4	-	.4	-	2.2	-	1.3	-	.8	-
3822	Environmental controls	1.6	-	.9	-	.5	-	3.2	-	1.0	-	1.6	-
3823	Process control instruments	2.1	-	1.8	-	.2	-	2.2	-	.9	-	.8	-
3825	Instruments to measure electricity	2.3	-	1.4	-	.5	-	1.9	-	1.0	-	.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	
		July 1980	Aug. 1980P	July 1980	Aug. 1980P	July 1980	Aug. 1980P	July 1980	Aug. 1980P	July 1980	Aug. 1980P	July 1980	Aug. 1980P
	<b>INSTRUMENTS AND RELATED PRODUCTS—Con'd</b>												
383	Optical instruments and lenses .....	2.0	-	1.8	-	(1)	-	2.4	-	1.3	-	0.6	-
384	Medical instruments and supplies .....	2.3	-	1.9	-	0.3	-	2.9	-	1.6	-	.6	-
3841	Surgical and medical instruments .....	2.4	-	1.8	-	.3	-	3.2	-	1.7	-	.8	-
3842	Surgical appliances and supplies .....	2.4	-	2.0	-	.4	-	2.8	-	1.6	-	.5	-
385	Ophthalmic goods .....	3.6	-	1.9	-	1.3	-	4.5	-	1.7	-	1.9	-
386	Photographic equipment and supplies .....	2.5	-	2.2	-	.1	-	1.2	-	.5	-	.2	-
387	Watches, clocks, and watchcases .....	2.3	-	1.1	-	1.2	-	6.5	-	1.0	-	4.4	-
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b>	5.1	5.4	2.8	3.8	2.1	1.4	5.6	5.8	1.8	3.4	2.7	1.4
391	Jewelry, silverware, and plated ware .....	6.0	-	2.6	-	3.4	-	4.9	-	1.3	-	2.7	-
393	Musical instruments .....	2.6	-	1.0	-	1.5	-	4.7	-	1.7	-	2.5	-
394	Toys and sporting goods .....	5.7	-	3.5	-	1.9	-	5.3	-	2.0	-	2.3	-
3942,4	Dolls, games, toys, and children's vehicles .....	6.7	-	4.5	-	1.9	-	6.2	-	2.7	-	2.4	-
3949	Sporting and athletic goods, nec .....	4.8	-	2.5	-	1.9	-	4.4	-	1.3	-	2.2	-
395	Pens, pencils, office and art supplies .....	3.3	-	2.7	-	.5	-	4.4	-	1.7	-	1.4	-
396	Costume jewelry and notions .....	8.5	-	4.0	-	4.2	-	9.7	-	2.6	-	4.8	-
399	Miscellaneous manufactures .....	3.9	-	2.2	-	1.5	-	5.3	-	1.6	-	2.8	-
	<b>NONDURABLE GOODS</b>												
20	<b>FOOD AND KINDRED PRODUCTS</b>	8.3	9.0	5.2	5.9	2.9	2.8	5.3	7.2	2.4	4.1	2.5	1.9
201	Meat products .....	5.7	-	4.3	-	1.1	-	5.4	-	3.4	-	1.1	-
2011	Meat packing plants .....	3.7	-	2.4	-	.9	-	3.2	-	1.4	-	1.1	-
2013	Sausages and other prepared meats .....	5.3	-	3.0	-	2.1	-	4.9	-	1.9	-	2.2	-
2016	Poultry dressing plants .....	8.4	-	7.2	-	.8	-	8.5	-	6.6	-	.6	-
202	Dairy products .....	3.3	-	2.7	-	.6	-	2.7	-	1.5	-	.5	-
203	Preserved fruits and vegetables .....	25.2	-	14.8	-	10.1	-	12.7	-	3.6	-	7.9	-
204	Grain mill products .....	4.5	-	2.4	-	1.3	-	3.7	-	1.6	-	1.3	-
205	Bakery products .....	3.0	-	2.3	-	.7	-	2.6	-	1.3	-	.6	-
2051	Bread, cake, and related products .....	2.7	-	2.4	-	.3	-	2.6	-	1.4	-	.4	-
2052	Cookies and crackers .....	4.4	-	1.7	-	2.6	-	2.9	-	1.0	-	1.3	-
206	Sugar and confectionery products .....	8.2	-	2.4	-	5.7	-	6.1	-	1.2	-	4.3	-
207	Fats and oils .....	3.1	-	1.9	-	1.1	-	3.7	-	1.3	-	1.9	-
208	Beverages .....	4.6	-	3.1	-	1.4	-	4.4	-	1.7	-	1.8	-
2082	Malt beverages .....	4.2	-	1.1	-	3.0	-	4.5	-	.4	-	3.5	-
2086	Bottled and canned soft drinks .....	4.7	-	4.2	-	.3	-	3.9	-	2.5	-	.6	-
209	Misc. foods and kindred products .....	12.1	-	7.5	-	4.4	-	8.5	-	3.8	-	3.9	-
21	<b>TOBACCO MANUFACTURES</b>	5.1	-	1.2	-	2.1	-	2.2	-	.5	-	.9	-
211	Cigarettes .....	1.3	-	.5	-	(1)	-	.9	-	.1	-	(1)	-
22	<b>TEXTILE MILL PRODUCTS</b>	4.1	3.9	2.5	2.8	1.3	.8	5.1	4.8	2.1	2.8	2.0	1.0
221	Weaving mills, cotton .....	3.6	-	2.1	-	1.0	-	4.1	-	2.0	-	1.1	-
222	Weaving mills, synthetics .....	4.3	-	2.6	-	1.5	-	6.0	-	2.0	-	3.0	-
223	Weaving and finishing mills, wool .....	3.0	-	1.8	-	1.0	-	4.9	-	1.6	-	2.4	-
224	Narrow fabric mills .....	11.5	-	2.4	-	7.7	-	11.2	-	1.7	-	8.2	-
225	Knitting mills .....	3.7	-	2.9	-	.7	-	4.8	-	2.2	-	1.8	-
2251	Women's hosiery, except socks .....	3.0	-	2.5	-	.5	-	4.0	-	2.4	-	.8	-
2252	Hosiery, nec .....	3.8	-	3.2	-	.5	-	4.0	-	2.7	-	.6	-
2253	Knit outerwear mills .....	4.8	-	3.8	-	.9	-	5.3	-	2.1	-	2.2	-
2254	Knit underwear mills .....	2.9	-	2.3	-	.3	-	4.5	-	2.2	-	1.6	-
2257	Circular knit fabric mills .....	2.7	-	2.0	-	.6	-	5.2	-	2.0	-	2.7	-
226	Textile finishing, except wool .....	2.1	-	1.4	-	.5	-	4.8	-	1.6	-	2.1	-
227	Floor covering mills .....	4.4	-	1.7	-	2.5	-	3.9	-	1.5	-	1.5	-
228	Yarn and thread mills .....	5.1	-	3.7	-	1.0	-	5.8	-	3.4	-	1.0	-
229	Miscellaneous textile goods .....	3.9	-	1.5	-	2.1	-	5.1	-	1.2	-	2.7	-
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	5.6	6.5	3.4	3.9	2.2	2.1	6.6	6.7	2.7	3.8	2.9	2.1
231	Men's and boys' suits and coats .....	4.4	-	2.3	-	1.8	-	6.0	-	1.9	-	3.3	-
232	Men's and boys' furnishings .....	4.8	-	3.5	-	1.1	-	5.6	-	3.2	-	1.5	-
2321	Men's and boys' shirts and nightwear .....	4.8	-	3.5	-	1.0	-	5.5	-	3.1	-	1.3	-
2327	Men's and boys' separate trousers .....	4.4	-	3.6	-	.6	-	5.0	-	3.4	-	1.1	-
2328	Men's and boys' work clothing .....	5.3	-	3.8	-	1.4	-	5.5	-	3.5	-	1.5	-
233	Women's and misses' outerwear .....	7.0	-	3.3	-	3.5	-	7.6	-	2.5	-	4.0	-
234	Women's and children's undergarments .....	5.1	-	3.4	-	1.6	-	5.5	-	2.9	-	1.9	-
2341	Women's and children's underwear .....	5.6	-	3.7	-	1.8	-	5.5	-	3.1	-	1.7	-
2342	Brassieres and allied garments .....	3.0	-	2.4	-	.4	-	5.0	-	1.9	-	2.6	-
236	Children's outerwear .....	5.3	-	3.8	-	1.1	-	6.8	-	3.3	-	2.2	-
238	Misc. apparel and accessories .....	5.5	-	2.8	-	2.4	-	8.5	-	2.8	-	4.7	-
239	Misc. fabricated textile products .....	6.0	-	4.0	-	1.9	-	6.7	-	2.3	-	2.8	-
26	<b>PAPER AND ALLIED PRODUCTS</b>	2.9	2.9	1.4	1.7	1.4	1.0	3.1	3.9	.9	1.8	1.5	1.2
261,2,6	Paper and pulp mills .....	2.5	-	.9	-	1.4	-	1.9	-	.4	-	1.0	-
262	Paper mills, except building paper .....	2.4	-	.9	-	1.4	-	1.8	-	.4	-	.9	-

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	
		July 1980	Aug. 1980 <sup>p</sup>	July 1980	Aug. 1980 <sup>p</sup>	July 1980	Aug. 1980 <sup>p</sup>	July 1980	Aug. 1980 <sup>p</sup>	July 1980	Aug. 1980 <sup>p</sup>	July 1980	Aug. 1980 <sup>p</sup>
	<b>PAPER AND ALLIED PRODUCTS—Continued</b>												
263	Paperboard mills .....	2.1	-	1.0	-	1.1	-	2.7	-	0.6	-	1.7	-
264	Misc. converted paper products .....	3.0	-	1.8	-	1.0	-	3.8	-	1.2	-	1.7	-
265	Paperboard containers and boxes .....	3.6	-	1.7	-	1.8	-	3.9	-	1.1	-	1.8	-
2651	Folding paperboard boxes .....	3.5	-	1.8	-	1.7	-	3.6	-	1.1	-	1.5	-
2653	Corrugated and solid fiber boxes .....	2.9	-	1.5	-	1.3	-	3.0	-	1.1	-	1.1	-
27	<b>PRINTING AND PUBLISHING</b> .....	2.9	3.3	2.3	2.7	.5	0.5	3.1	4.3	1.7	2.8	.8	0.8
271	Newspapers .....	2.9	-	2.7	-	.1	-	3.1	-	2.3	-	.2	-
272	Periodicals .....	2.8	-	2.5	-	.3	-	2.1	-	1.5	-	.1	-
273	Books .....	3.0	-	1.7	-	1.2	-	4.0	-	1.3	-	2.1	-
274	Miscellaneous publishing .....	3.1	-	2.6	-	.5	-	3.1	-	1.6	-	.8	-
275	Commercial printing .....	2.8	-	1.9	-	.8	-	2.8	-	1.1	-	1.0	-
2751	Commercial printing, letterpress .....	3.0	-	1.9	-	1.1	-	3.0	-	1.3	-	1.0	-
2752	Commercial printing, lithographic .....	2.7	-	1.9	-	.6	-	2.7	-	1.1	-	.9	-
278	Blankbooks and bookbinding .....	3.9	-	3.0	-	.8	-	4.5	-	1.8	-	2.0	-
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> .....	1.5	1.6	1.1	1.0	.3	.5	1.9	2.7	.5	1.4	.8	.7
281	Industrial inorganic chemicals .....	1.1	-	.8	-	.1	-	1.3	-	.4	-	.4	-
2819	Industrial inorganic chemicals, nec .....	1.0	-	.8	-	.1	-	1.3	-	.4	-	.4	-
282	Plastics materials and synthetics .....	.9	-	.5	-	.3	-	2.4	-	.4	-	1.5	-
2821	Plastics materials and resins .....	1.2	-	.8	-	.3	-	2.2	-	.5	-	1.2	-
2824	Organic fibers, noncellulosic .....	.5	-	.2	-	.2	-	2.3	-	.2	-	1.7	-
283	Drugs .....	1.5	-	1.1	-	.2	-	1.6	-	.7	-	.4	-
2834	Pharmaceutical preparations .....	1.5	-	1.2	-	.2	-	1.5	-	.7	-	.4	-
284	Soap, cleaners, and toilet goods .....	3.0	-	2.3	-	.6	-	2.2	-	.8	-	.7	-
2841	Soap and other detergents .....	1.9	-	.9	-	.9	-	1.5	-	.3	-	.6	-
2844	Toilet preparations .....	3.6	-	3.0	-	.3	-	2.7	-	1.0	-	.9	-
285	Paints and allied products .....	2.2	-	1.7	-	.3	-	2.5	-	1.1	-	.7	-
286	Industrial organic chemicals .....	1.0	-	.7	-	.1	-	1.2	-	.4	-	.3	-
287	Agricultural chemicals .....	1.3	-	.9	-	.2	-	3.6	-	.9	-	1.8	-
289	Miscellaneous chemical products .....	1.8	-	1.2	-	.5	-	2.3	-	.7	-	.9	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	2.5	2.4	2.0	1.9	.4	.3	1.9	3.3	.7	1.5	.5	.9
291	Petroleum refining .....	2.0	-	1.9	-	(1)	-	1.3	-	.5	-	.3	-
295	Paving and roofing materials .....	5.5	-	3.1	-	2.3	-	4.7	-	1.7	-	1.4	-
30	<b>RUBBER AND MISC. PLASTICS PRODUCTS</b> ..	4.7	5.7	2.1	3.0	2.2	2.4	5.5	5.5	1.7	2.7	2.7	1.8
301	Tires and inner tubes .....	1.6	-	.3	-	.9	-	4.2	-	.3	-	2.5	-
302	Rubber and plastics footwear .....	7.3	-	3.8	-	3.1	-	10.7	-	2.5	-	6.7	-
303,4	Reclaimed rubber, and rubber and plastics hose and belting .....	2.0	-	.5	-	1.4	-	4.8	-	.6	-	3.3	-
306	Fabricated rubber products, nec .....	3.6	-	1.3	-	2.0	-	3.8	-	1.1	-	1.6	-
307	Miscellaneous plastics products .....	5.6	-	2.7	-	2.6	-	6.0	-	2.1	-	2.8	-
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	7.7	8.6	4.4	5.2	3.0	3.2	8.8	7.3	3.3	4.5	4.5	1.8
311	Leather tanning and finishing .....	4.7	-	3.1	-	1.6	-	5.6	-	1.9	-	3.0	-
314	Footwear, except rubber .....	7.8	-	4.9	-	2.6	-	9.1	-	3.8	-	4.2	-
3143	Men's footwear, except athletic .....	5.9	-	4.8	-	.7	-	7.7	-	3.7	-	2.8	-
3144	Women's footwear, except athletic .....	7.9	-	5.0	-	2.6	-	10.6	-	4.0	-	5.5	-
-	<b>NONMANUFACTURING:</b>												
-	<b>MINING</b> .....	4.8	5.1	3.8	3.9	.5	.9	3.7	5.9	2.2	4.0	.5	.8
10	<b>METAL MINING</b> .....	1.9	2.3	1.1	1.4	.5	.7	2.7	5.9	.8	2.2	1.0	3.0
101	Iron ores .....	2.5	-	.1	-	1.7	-	5.1	-	.4	-	3.9	-
102	Copper ores .....	.6	-	.5	-	(1)	-	2.0	-	.3	-	.1	-
12	<b>BITUMINOUS COAL AND LIGNITE MINING</b> ..	1.1	1.6	.5	.7	.4	.7	2.1	2.6	.4	.8	1.2	1.2
13	<b>OIL AND GAS EXTRACTION</b> .....	7.4	7.6	6.1	6.2	.6	1.0	4.7	7.8	3.4	6.3	.1	.2
131,2	Crude petroleum, natural gas, and natural gas liquids .....	3.2	-	2.4	-	.4	-	1.5	-	.8	-	.1	-
138	Oil and gas field services .....	10.2	-	8.6	-	.7	-	6.9	-	5.2	-	.1	-
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> ..	2.4	2.6	1.8	1.9	.6	.7	3.2	4.3	1.6	1.8	1.1	1.5
142	Crushed and broken stone .....	2.3	-	1.8	-	.5	-	3.4	-	2.4	-	.6	-
144	Sand and gravel .....	3.4	-	2.1	-	1.2	-	3.7	-	1.3	-	1.8	-
-	<b>COMMUNICATION:</b>												
481	Telephone communication .....	.9	-	.8	-	(1)	-	.6	-	.3	-	.1	-

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

<sup>p</sup>preliminary.

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

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

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>												
1970.....	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971.....	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972.....	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973.....	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974.....	4.7	4.6	4.5	4.6	4.5	4.3	4.3	4.1	4.0	3.8	3.3	3.1
1975.....	3.0	3.2	3.2	3.6	3.7	3.8	4.0	4.0	3.9	3.8	3.8	3.8
1976.....	4.2	4.1	4.2	4.0	4.0	3.8	3.9	3.8	3.7	3.7	3.8	3.9
1977.....	4.0	4.4	4.0	4.0	4.0	4.0	4.0	3.9	3.9	4.0	4.1	4.4
1978.....	4.1	3.9	4.0	4.2	4.0	4.0	4.0	4.1	4.2	4.3	4.3	4.4
1979.....	4.2	4.1	4.0	4.0	4.0	4.0	3.9	3.9	3.9	4.1	4.0	3.9
1980.....	3.9	3.9	3.6	3.0	3.0	3.3	3.4	P3.7				
<b>New hires</b>												
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	1.8	1.9	P1.9				
<b>Total separations</b>												
1970.....	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971.....	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972.....	4.2	4.1	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973.....	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974.....	5.1	5.0	4.9	4.7	4.6	4.5	4.5	4.8	4.4	4.8	5.2	4.9
1975.....	5.2	5.1	4.6	4.6	4.6	4.3	4.0	3.9	3.8	3.8	3.8	3.5
1976.....	3.6	3.6	3.8	3.9	3.7	3.9	3.9	4.0	3.9	3.8	3.6	3.6
1977.....	3.9	4.1	3.8	3.7	3.8	3.7	3.9	3.9	3.9	3.7	3.8	3.9
1978.....	3.8	3.8	3.8	4.0	3.9	3.9	3.9	3.8	3.8	4.0	4.0	4.1
1979.....	4.0	4.0	3.9	4.1	4.0	4.1	3.9	4.3	3.9	4.0	4.1	4.0
1980.....	4.1	4.0	4.3	5.3	5.7	5.1	3.8	P4.0				
<b>Quits</b>												
1970.....	2.4	2.5	2.3	2.3	2.1	2.2	2.1	2.0	2.0	1.9	1.8	1.9
1971.....	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972.....	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.6
1973.....	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974.....	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.2	2.0	1.8	1.7
1975.....	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976.....	1.6	1.7	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.6	1.5	1.6
1977.....	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.9	1.9	1.9	1.9	2.0
1978.....	1.9	1.9	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2
1979.....	2.2	2.2	2.1	2.1	2.0	2.0	1.9	2.0	1.9	2.0	2.0	1.9
1980.....	1.9	1.9	1.9	1.5	1.4	1.4	1.3	P1.3				
<b>Layoffs</b>												
1970.....	1.5	1.7	1.8	1.9	1.9	1.9	1.5	1.9	1.9	2.2	2.0	1.7
1971.....	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972.....	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973.....	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974.....	1.4	1.3	1.2	1.1	1.1	1.1	1.1	1.4	1.3	1.8	2.5	2.5
1975.....	2.9	3.0	2.7	2.6	2.5	2.2	1.7	1.6	1.7	1.5	1.5	1.3
1976.....	1.2	1.0	1.2	1.3	1.2	1.3	1.3	1.4	1.4	1.4	1.3	1.2
1977.....	1.3	1.5	1.2	1.1	1.1	1.1	1.2	1.2	1.1	1.0	1.0	1.0
1978.....	1.0	1.0	1.0	1.0	1.0	.9	.9	.9	.8	.9	.9	1.0
1979.....	.9	.9	.9	1.1	1.0	1.2	1.1	1.4	1.2	1.2	1.3	1.2
1980.....	1.3	1.3	1.5	2.9	3.5	2.9	1.7	P2.0				

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	
	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>
<b>ALABAMA:</b>												
Birmingham .....	2.2	1.8	0.9	0.9	1.0	0.7	8.1	5.0	0.6	0.6	6.9	3.7
Mobile .....	8.7	9.9	2.0	2.6	6.6	7.3	11.2	10.4	1.4	2.4	8.6	7.2
<b>ALASKA</b> .....	14.6	42.1	11.0	37.6	2.5	.1	6.4	26.9	2.5	21.4	1.4	3.2
<b>ARIZONA</b> .....	3.9	3.8	3.2	3.1	.5	.6	4.0	3.6	2.0	2.0	.9	.6
Phoenix .....	3.8	3.8	3.1	3.1	.5	.6	4.1	3.7	2.0	2.0	.9	.5
<b>ARKANSAS</b> .....	5.1	4.4	2.9	2.6	1.8	1.4	5.2	5.8	2.3	2.5	2.0	2.3
Fort Smith .....	4.5	4.1	1.2	1.3	2.3	1.6	6.3	10.3	1.2	1.9	3.6	7.0
Little Rock—North Little Rock .....	3.1	3.3	2.2	2.3	.9	.9	3.6	2.8	1.5	1.4	1.3	.8
Pine Bluff .....	3.3	3.3	2.8	2.8	.4	.4	3.3	3.3	1.6	2.3	.7	.3
<b>CALIFORNIA</b> .....	4.4	(*)	3.1	(*)	1.1	(*)	4.7	(*)	1.8	(*)	1.9	(*)
<b>COLORADO</b> .....	4.1	4.6	3.6	3.8	.5	.7	3.3	4.1	2.1	2.7	.5	.7
Denver—Boulder .....	3.9	4.1	3.4	3.4	.4	.6	3.1	4.0	2.0	2.4	.4	.8
<b>CONNECTICUT</b> .....	2.8	1.8	2.1	1.1	.4	.5	2.7	2.4	1.1	1.0	.9	.8
Hartford .....	2.6	1.2	2.2	1.0	.1	.1	2.1	1.7	1.1	.9	.4	.2
<b>DELAWARE</b> .....	2.5	2.3	1.8	1.6	.4	.5	7.9	2.9	.9	1.3	6.2	1.0
Wilmington .....	1.8	1.6	1.1	.8	.4	.6	7.6	1.9	.5	.5	6.6	.9
<b>FLORIDA</b> .....	4.9	5.1	4.1	4.0	.7	1.0	5.2	4.8	2.7	2.7	1.5	.9
Fort Lauderdale—Hollywood .....	6.6	5.1	6.0	4.6	.5	.4	6.5	4.4	4.0	2.7	1.6	.8
Jacksonville .....	6.3	6.4	3.8	2.8	2.3	3.5	7.1	3.8	2.4	1.3	3.8	.9
Miami .....	4.5	4.2	3.9	3.6	.6	.6	5.1	4.4	2.5	2.7	1.5	.9
Orlando .....	3.3	5.9	2.5	3.1	.7	2.7	5.6	6.1	2.4	3.3	2.2	2.1
Pensacola .....	1.4	2.1	1.3	1.4	.1	.6	1.9	2.3	.9	1.4	.4	.5
Tampa—St. Petersburg .....	5.4	6.5	4.5	5.6	.9	.8	4.6	5.8	2.8	3.9	.8	.7
West Palm Beach—Boca Raton .....	4.3	4.4	4.1	4.0	.1	.3	4.4	4.5	2.4	2.8	.9	.5
<b>GEORGIA</b> .....	3.3	3.3	2.6	2.4	.4	.6	3.4	3.4	1.8	2.0	.8	.6
Atlanta .....	3.3	3.1	2.7	2.3	.4	.6	3.0	3.1	1.7	1.7	.5	.8
<b>HAWAII</b> <sup>2</sup> .....	3.8	3.4	2.1	1.4	1.4	1.8	2.4	4.8	1.0	.9	.8	3.1
<b>IDAHO</b> <sup>1</sup> .....	8.0	4.6	2.7	2.3	4.3	2.2	4.7	4.6	1.3	1.2	1.9	2.4
<b>ILLINOIS:</b>												
Chicago SMSA .....	2.6	2.3	1.6	1.3	.7	.7	3.5	3.2	1.0	1.0	1.6	1.3
Davenport—Rock Island—Moline .....	1.6	1.2	.8	.6	.7	.5	3.6	3.0	.4	.4	2.6	1.7
Decatur .....	1.4	1.1	.7	.5	.5	.2	4.4	3.8	.3	.3	3.6	3.0
Peoria .....	3.2	2.3	1.0	.4	1.9	1.7	1.8	3.0	.4	.3	1.0	2.3
Rockford .....	2.4	1.8	1.7	1.0	.4	.5	2.9	3.1	.7	.7	1.7	2.0
<b>INDIANA</b> <sup>4</sup> .....	3.2	3.6	.9	.9	1.6	1.9	4.5	4.1	.6	.7	3.2	2.7
Indianapolis .....	2.7	3.3	1.0	1.3	.6	.7	3.6	5.1	1.0	.9	1.7	2.8
<b>IOWA</b> .....	3.0	2.3	1.3	1.1	1.5	1.1	6.0	3.6	.8	.8	4.3	2.0
Cedar Rapids .....	2.1	1.7	.5	.6	1.1	.9	4.5	3.0	.4	.8	3.8	1.7
Des Moines .....	7.5	3.3	2.4	1.8	4.5	1.1	6.3	3.8	1.0	1.2	4.6	1.6
<b>KANSAS</b> .....	6.9	4.0	2.8	2.8	4.0	.9	8.6	4.4	2.1	2.1	5.7	1.5
Topeka .....	3.1	2.2	2.2	1.8	.8	.3	7.4	6.2	1.5	1.2	5.2	4.4
Wichita .....	3.4	4.0	2.8	3.1	.5	.6	3.8	4.0	2.2	2.2	.6	.6
<b>KENTUCKY</b> .....	2.7	2.9	1.2	1.0	1.1	1.6	6.8	4.4	.9	.9	5.2	2.7
Lexington—Fayette .....	3.0	2.2	1.2	.9	.7	1.0	5.3	4.9	.7	.8	3.8	3.1
Louisville .....	2.6	4.2	.8	.7	1.2	3.1	7.4	2.7	.4	.5	6.2	1.5
<b>LOUISIANA:</b>												
New Orleans .....	5.8	4.5	4.9	3.9	.7	.5	5.2	5.5	2.9	2.8	.9	1.2
<b>MAINE</b> .....	6.0	5.7	3.8	3.4	2.0	1.9	4.4	6.2	2.0	2.2	1.5	3.1
Portland .....	3.5	3.0	2.9	2.4	.4	.4	3.4	3.1	2.1	1.9	.5	.4
<b>MARYLAND</b> .....	3.2	3.1	1.9	1.7	1.1	1.3	3.6	4.5	1.0	1.0	1.9	2.5
Baltimore .....	2.7	2.8	1.5	1.4	1.0	1.2	3.5	4.7	.8	.8	1.9	2.9

See footnotes at end of table.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>
<b>MASSACHUSETTS</b> .....	4.2	3.3	3.1	2.0	0.8	1.0	3.6	3.8	1.5	1.4	1.1	1.5
Boston .....	4.1	3.1	3.3	1.9	.5	1.1	3.0	2.7	1.3	1.2	.8	.8
<b>MICHIGAN</b> .....	3.3	2.8	1.1	.8	1.6	1.5	5.6	4.6	.5	.5	4.3	3.3
Detroit .....	3.0	1.9	.8	.4	1.5	1.1	5.5	3.1	.5	.4	4.0	2.1
Flint .....	3.0	1.6	1.8	1.1	.2	.1	10.1	7.0	.2	.2	8.3	6.0
Grand Rapids .....	3.4	4.1	1.5	3.0	1.5	.8	2.8	2.7	.5	.5	1.6	1.7
Lansing—East Lansing .....	1.4	.8	.2	( <sup>b</sup> )	.8	.5	2.0	1.3	.2	.1	1.3	.8
<b>MINNESOTA</b> .....	4.2	3.3	2.7	2.1	1.3	1.1	3.7	3.4	1.4	1.3	1.7	1.6
Minneapolis—St. Paul .....	3.4	2.5	2.5	1.6	.7	.7	3.0	2.5	1.4	1.2	1.0	.8
<b>MISSISSIPPI:</b>												
Jackson .....	3.2	3.2	2.6	2.5	.4	.6	4.9	3.5	1.7	1.7	2.5	.7
<b>MISSOURI</b> .....	3.1	2.9	2.0	1.6	.8	1.1	3.6	3.0	1.1	1.2	1.9	1.2
Kansas City .....	5.8	2.4	1.8	1.7	3.8	.7	7.0	3.3	1.1	1.3	5.2	1.4
St. Louis .....	2.8	2.1	1.6	.9	1.1	1.0	3.9	2.2	.7	.7	2.6	.9
<b>MONTANA</b> .....	7.3	4.0	2.6	2.3	4.5	1.6	2.3	7.9	1.2	1.9	.4	5.6
<b>NEBRASKA</b> .....	3.2	2.6	2.2	1.8	.9	.7	3.7	3.2	1.4	1.7	1.4	1.0
<b>NEVADA</b> .....	5.6	6.6	4.9	5.2	.6	1.3	5.6	6.0	3.0	3.7	1.6	.9
<b>NEW HAMPSHIRE</b> .....	4.1	5.6	3.3	2.8	.6	2.5	4.1	6.2	2.5	2.2	.9	3.2
<b>NEW JERSEY:</b>												
Camden ? .....	3.3	(*)	1.9	(*)	1.0	(*)	3.4	(*)	.8	(*)	1.8	(*)
Hackensack .....	4.5	4.2	2.8	2.7	1.5	1.3	3.8	5.6	1.4	1.7	1.3	2.7
Jersey City .....	3.3	3.1	1.6	1.6	1.6	1.4	2.7	4.1	.8	1.1	1.1	1.9
New Brunswick—Perth Amboy—Sayreville .....	3.9	3.2	2.9	1.8	.6	1.2	3.8	5.7	1.2	1.3	1.5	3.5
Newark .....	3.3	2.7	2.3	1.8	.6	.5	3.5	4.6	1.0	1.0	1.7	2.7
Paterson—Clifton—Passaic .....	3.9	3.7	2.6	2.2	1.2	1.4	4.2	7.3	1.3	1.2	2.1	5.1
Trenton .....	4.6	3.9	1.8	1.7	2.6	2.1	5.3	14.1	.7	1.2	3.7	11.5
<b>NEW YORK</b> .....	4.2	4.1	2.4	2.1	1.6	1.8	4.4	4.9	1.0	1.0	2.6	3.0
Albany—Schenectady—Troy .....	2.7	3.2	1.4	1.2	.8	1.5	3.8	3.5	.6	.7	2.2	1.8
Binghamton .....	2.3	1.3	1.7	1.0	.4	.3	2.4	2.3	.9	.8	1.0	1.0
Buffalo .....	5.0	3.5	1.0	1.0	3.8	2.2	3.9	4.8	.4	.4	2.9	3.8
Elmira .....	2.5	3.9	1.9	1.4	.3	2.2	3.9	3.0	.5	.5	2.2	1.2
Monroe County ? .....	3.9	2.6	3.2	1.9	.4	.6	1.4	2.2	.5	.7	.4	1.0
Nassau—Suffolk ? .....	4.4	4.3	3.4	2.8	.9	1.3	5.0	5.0	1.8	2.0	2.2	2.1
New York and Nassau—Suffolk .....	4.3	4.4	2.7	2.5	1.5	1.8	4.9	5.8	1.3	1.4	2.8	3.6
New York SMSA ? .....	4.3	4.4	2.5	2.4	1.7	1.9	4.9	6.0	1.1	1.2	3.0	4.0
New York City <sup>10</sup> .....	4.6	4.7	2.6	2.5	1.9	2.1	5.3	6.6	1.1	1.3	3.3	4.5
Rochester .....	4.0	3.3	3.2	2.1	.5	1.1	1.7	2.5	.5	.7	.5	1.2
Syracuse .....	3.0	3.6	1.5	1.1	1.3	2.3	2.9	4.0	.7	.7	1.5	2.6
Utica—Rome .....	2.8	3.6	1.5	1.2	1.0	2.2	3.6	4.6	.8	.8	2.4	3.3
Westchester County <sup>10</sup> .....	2.7	3.0	1.9	1.8	.5	1.1	2.8	3.1	.9	.9	1.3	1.6
<b>NORTH CAROLINA</b> .....	3.2	3.2	2.6	2.5	.4	.4	3.5	3.8	1.9	2.1	.8	.9
Charlotte—Gastonia .....	5.7	4.2	4.9	3.4	.4	.6	6.4	4.3	4.1	3.0	.8	.2
Greensboro—Winston-Salem—High Point .....	3.0	2.9	2.5	2.2	.2	.3	3.1	2.8	1.6	1.7	.7	.4
<b>NORTH DAKOTA</b> .....	6.3	5.6	2.3	1.8	3.6	3.5	8.6	3.6	1.6	1.3	6.0	1.5
Fargo—Moorhead .....	2.9	3.4	2.0	1.2	.5	1.6	4.8	4.9	1.2	.8	3.1	3.2
<b>OHIO</b> .....	2.7	2.6	1.1	.7	(*)	(*)	4.5	3.4	.5	.5	3.2	2.2
Akron .....	1.5	1.8	.9	.4	(*)	(*)	3.1	2.8	.3	.4	2.3	1.5
Canton .....	3.5	2.3	1.4	.8	(*)	(*)	4.9	2.3	.4	.5	3.5	1.1
Cincinnati .....	2.4	2.0	1.7	1.1	(*)	(*)	2.6	2.3	.6	.7	1.2	.9
Cleveland .....	2.7	2.4	1.3	.8	(*)	(*)	4.9	3.1	.6	.6	3.3	1.7
Columbus .....	2.1	1.7	1.5	1.1	(*)	(*)	2.8	2.0	.7	.7	1.6	.8
Dayton .....	2.8	1.7	1.1	1.0	(*)	(*)	2.6	2.6	.5	.7	1.5	1.2
Toledo .....	2.5	2.7	1.0	.9	(*)	(*)	5.0	2.2	.3	.3	3.7	1.2
Youngstown—Warren .....	4.8	1.8	.5	.2	(*)	(*)	4.2	3.9	.2	.2	3.3	3.0
<b>OKLAHOMA</b> .....	4.9	5.0	4.1	4.3	.6	.6	5.0	5.5	3.2	3.7	.8	.9
Oklahoma City .....	4.3	4.0	3.5	3.4	.5	.5	5.1	4.8	2.8	3.3	1.2	.7
Tulsa <sup>11</sup> .....	4.9	5.2	4.5	4.6	.3	.4	4.4	5.9	3.2	3.3	.2	.9
<b>OREGON</b> <sup>4</sup> .....	5.2	4.2	2.3	2.4	2.6	1.6	4.4	3.5	1.3	1.4	2.5	1.3
Eugene—Springfield <sup>4</sup> .....	4.3	5.1	2.6	3.5	1.5	1.5	3.4	2.7	1.2	1.1	1.7	.7
Portland <sup>4</sup> .....	4.4	3.1	2.2	2.0	1.9	.9	4.5	3.5	1.4	1.4	2.5	1.3

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA LABOR TURNOVER

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

[ Per 100 employees ]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>	June 1980	July 1980 <sup>P</sup>
<b>PENNSYLVANIA</b>	3.3	3.0	1.5	1.0	1.4	1.8	4.0	4.0	0.7	0.7	2.6	2.7
Allentown—Bethlehem—Easton	2.8	2.6	1.3	.8	1.2	1.6	3.3	3.4	.7	.6	2.1	2.1
Altoona	2.3	2.1	1.1	.9	.9	1.1	4.6	2.5	.7	.8	3.6	1.4
Erle	2.8	2.1	1.1	.7	1.0	1.4	3.3	3.2	.4	.6	2.1	2.2
Harrisburgh	2.8	2.8	2.1	1.7	.5	.9	2.5	3.2	.9	1.1	1.0	1.4
Johnstown	2.4	.6	.6	.4	1.5	.2	4.6	1.2	.4	.5	3.6	.6
Lancaster	3.4	2.3	2.2	1.2	.9	.9	2.7	2.6	1.1	1.1	1.0	1.1
Northeast Pennsylvania	3.9	5.1	2.1	1.5	1.6	3.4	4.8	6.4	1.0	.9	3.2	4.9
Philadelphia SMSA	3.6	2.8	2.0	1.6	1.3	1.0	3.7	3.1	.9	.9	2.0	1.5
Pittsburgh	3.1	3.0	.8	.5	1.9	2.3	5.1	4.4	.3	.3	4.2	3.2
Reading	2.7	3.6	1.5	1.2	.9	2.3	3.3	5.0	.8	.9	2.0	3.5
Scranton <sup>12</sup>	3.6	7.4	1.8	1.6	1.7	5.6	5.6	9.4	1.1	1.0	4.0	8.0
Wilkes-Barre—Hazleton <sup>12</sup>	3.6	4.1	1.6	1.6	1.7	2.3	3.5	5.0	.6	.9	2.4	3.6
Williamsport	1.9	1.4	.9	.5	.9	.7	1.8	1.4	.5	.4	.9	.5
York	3.1	3.0	1.8	1.6	1.1	1.3	2.8	3.9	.9	1.0	1.4	2.4
<b>RHODE ISLAND</b>	4.3	9.1	2.6	2.3	1.5	6.4	4.2	9.1	1.5	1.6	1.8	6.4
Providence—Warwick—Pawtucket	3.9	8.9	2.4	2.1	1.3	6.4	4.1	9.1	1.5	1.6	1.8	6.5
<b>SOUTH CAROLINA</b>	3.0	4.0	2.1	2.0	.5	1.7	4.3	4.9	1.7	1.9	1.6	2.1
Charleston—North Charleston	4.2	4.3	3.2	3.1	.9	1.0	3.1	4.6	1.8	2.2	.5	1.2
Columbia	2.9	3.0	2.6	2.2	.1	.5	4.4	2.6	1.9	1.6	1.2	.1
Greenville—Spartanburg	2.8	3.6	2.4	2.5	.2	1.1	3.8	4.7	1.9	2.3	.7	1.3
<b>SOUTH DAKOTA</b>	2.6	1.5	1.5	.8	.9	.5	3.3	2.8	1.3	1.3	1.4	.8
Sioux Falls	3.3	1.3	1.2	.5	2.1	.9	2.2	1.6	.7	.6	1.3	.8
<b>TENNESSEE:</b>												
Memphis	2.9	3.1	1.9	1.2	.7	1.6	3.6	2.8	1.4	1.0	1.4	1.1
<b>TEXAS:</b>												
Dallas—Fort Worth	4.8	4.7	4.4	4.2	.3	.3	4.4	4.5	3.0	3.1	.5	.3
Houston	4.3	4.1	4.1	3.8	.1	.2	3.8	3.8	2.5	2.6	.3	.3
San Antonio	5.8	5.3	5.3	4.8	.4	.4	5.3	4.6	3.5	3.3	.7	.2
<b>UTAH<sup>3</sup></b>	4.8	3.7	3.9	3.2	.5	.3	4.9	4.0	2.5	2.1	1.4	.7
Salt Lake City—Ogden <sup>3</sup>	4.5	3.5	3.8	3.2	.4	.2	4.1	4.1	2.7	2.2	.6	.7
<b>VERMONT</b>	3.5	4.5	2.6	1.7	.8	2.6	3.4	6.7	1.2	1.0	1.6	5.3
Burlington	3.2	1.9	2.9	1.5	.2	.1	1.8	1.9	.6	.6	.8	.8
Springfield	4.2	2.2	3.0	2.0	1.0	.2	2.2	2.2	1.1	.7	.7	.9
<b>VIRGINIA</b>	3.1	3.0	2.2	1.8	.6	1.0	3.5	3.1	1.3	1.2	1.4	1.1
Richmond	2.5	2.0	1.6	.8	.2	.7	2.2	1.7	.7	.5	.7	.4
<b>WASHINGTON:</b>												
Seattle—Everett <sup>13</sup>	4.7	2.8	3.1	2.1	1.4	.6	2.8	2.4	1.1	1.0	.9	.8
<b>WISCONSIN</b>	4.2	5.0	1.9	2.1	1.9	2.5	4.3	4.5	.7	.8	2.9	2.9
Milwaukee	3.2	3.5	1.3	1.3	1.3	1.7	4.4	4.6	.6	.7	2.7	2.8
<b>WYOMING</b>	7.7	6.0	6.4	3.1	1.1	2.8	7.1	4.4	3.7	2.9	2.2	.4

<sup>1</sup> Excludes agricultural chemicals, and miscellaneous manufacturing.

<sup>2</sup> Excludes canned fruits, vegetables, preserves, jams, and jellies.

<sup>3</sup> Excludes canning and preserving, and sugar.

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

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

<sup>6</sup> Less than 0.05.

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

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

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

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

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

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

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

<sup>P</sup> preliminary.

\* Not available.

SOURCE: Cooperating State agencies listed on inside back cover 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		
	AUG. 1979	JUL. 1980	AUG. 1980P	AUG. 1979	JUL. 1980	AUG. 1980P	AUG. 1979	JUL. 1980	AUG. 1980P
<b>ALABAMA</b>	1,632.6	1,650.3	1,639.1	117.7	185.0	168.4	7.2	11.2	10.3
Birmingham	376.4	387.9	387.5	23.1	41.5	42.6	6.1	10.7	11.0
Huntsville	137.6	140.8	138.8	10.2	18.9	14.5	7.4	13.4	10.5
Mobile	181.1	179.1	176.6	16.1	15.2	14.8	8.9	8.5	8.4
Montgomery	120.3	118.5	117.0	7.2	9.3	9.1	5.9	7.8	7.8
Tuscaloosa	51.5	51.2	51.8	3.1	5.3	4.7	5.9	10.3	9.1
<b>ALASKA</b>	189.5	201.4	198.5	13.4	17.3	15.4	7.1	8.6	7.8
<b>ARIZONA</b>	1,028.1	1,115.8	1,111.4	51.8	86.1	84.7	5.0	7.7	7.6
Phoenix	626.9	682.8	679.1	26.9	46.4	44.9	4.3	6.8	6.6
Tucson	184.2	199.3	200.8	7.7	13.3	13.5	4.2	6.7	6.7
<b>ARKANSAS</b>	971.8	1,002.7	1,000.2	53.6	87.3	79.4	5.5	8.7	7.9
Fayetteville-Springdale	75.4	78.6	78.0	2.8	5.5	4.7	3.7	7.0	6.0
Fort Smith <sup>1</sup>	82.7	85.1	84.3	5.8	9.6	8.8	7.0	11.2	10.4
Little Rock-North Little Rock	186.9	193.8	194.3	7.8	12.3	11.4	4.2	6.3	5.9
Pine Bluff	38.8	39.3	39.2	2.1	2.7	2.6	5.4	6.8	6.6
<b>CALIFORNIA<sup>2</sup></b>	11,169.9	11,357.1	11,484.1	708.7	802.6	843.2	6.3	7.1	7.3
Anaheim-Santa Ana-Garden Grove	1,084.6	1,108.0	1,118.2	49.0	52.4	57.7	4.5	4.7	5.2
Bakersfield	181.8	187.9	183.9	14.1	14.9	15.1	7.8	7.9	8.2
Fresno	290.8	279.7	293.0	19.8	23.9	24.9	6.8	8.5	8.5
Los Angeles-Long Beach <sup>2</sup>	3,476.0	3,637.0	3,666.0	209.0	247.0	256.0	6.0	6.8	7.0
Modesto	142.1	136.7	147.6	9.5	17.8	15.5	6.7	13.0	10.5
Oxnard-Simi Valley-Ventura	224.0	225.9	230.7	18.7	16.6	21.5	8.3	7.3	9.3
Riverside-San Bernardino-Ontario	577.0	598.7	598.2	44.3	51.8	58.5	7.7	8.7	9.8
Sacramento	472.6	477.0	487.0	32.8	38.0	39.8	6.9	8.0	8.2
Salinas-Seaside-Monterey	135.5	133.1	132.2	8.9	10.2	10.2	6.6	7.6	7.7
San Diego	738.9	759.2	765.9	48.4	57.0	58.6	6.6	7.5	7.6
San Francisco-Oakland	1,631.9	1,617.5	1,621.3	101.6	93.6	101.1	6.2	5.8	6.2
San Jose	726.1	744.1	754.0	34.7	41.9	42.7	4.8	5.6	5.7
Santa Barbara-Santa Maria-Lompoc	148.2	149.2	148.9	8.9	8.5	9.4	6.0	5.7	6.3
Santa Rosa	132.3	130.2	131.7	8.8	10.1	11.1	6.7	7.8	8.4
Stockton	170.4	167.6	175.6	12.7	18.1	16.6	7.5	10.8	9.4
Vallejo-Fairfield-Napa	128.3	129.1	130.3	8.7	9.2	9.9	6.8	7.2	7.6
<b>COLORADO</b>	1,407.9	1,477.5	1,476.5	61.5	87.3	84.7	4.4	5.9	5.7
Denver-Boulder	826.5	867.6	869.6	33.7	47.1	46.8	4.1	5.4	5.4
<b>CONNECTICUT</b>	1,592.7	1,637.6	1,621.0	78.2	102.2	98.8	4.9	6.2	6.1
Bridgeport	194.6	198.2	197.2	9.8	12.8	12.6	5.0	6.4	6.4
Hartford	382.8	396.4	391.4	17.1	19.7	19.6	4.5	5.0	5.0
New Britain	71.8	75.7	75.1	3.5	5.3	6.3	4.9	7.0	8.4
New Haven-West Haven	205.2	209.2	207.5	10.9	13.4	12.7	5.3	6.4	6.1
Stamford	122.0	125.7	124.1	4.5	5.0	4.5	3.7	4.0	3.6
Waterbury	111.2	112.6	111.4	5.8	9.6	8.5	5.2	8.6	7.6
<b>DELAWARE</b>	280.7	284.0	282.8	22.6	21.8	22.1	8.1	7.7	7.8
Wilmington <sup>1</sup>	244.5	248.0	245.4	19.3	21.5	20.3	7.9	8.7	8.3
<b>DISTRICT OF COLUMBIA</b>	325.8	330.3	327.2	24.6	22.9	22.0	7.6	6.9	6.7
Washington SMSA <sup>1</sup>	1,618.1	1,666.3	1,661.8	71.2	72.3	66.7	4.4	4.3	4.0
<b>FLORIDA<sup>2</sup></b>	3,856.5	4,015.0	3,921.1	234.2	303.8	246.4	6.1	7.6	6.3
Fort Lauderdale-Hollywood	406.0	422.3	414.7	20.4	23.7	19.8	5.0	5.6	4.8
Jacksonville	301.5	305.6	300.2	16.0	20.4	17.1	5.3	6.7	5.7
Miami	730.1	750.6	734.5	41.0	53.5	43.4	5.6	7.1	5.9
Orlando	308.4	333.6	319.1	18.8	26.1	20.0	6.1	7.8	6.3
Pensacola	109.8	112.5	111.0	5.6	8.5	6.8	5.1	7.5	6.1
Tampa-St. Petersburg	591.3	611.5	600.1	30.7	41.9	33.8	5.2	6.9	5.6
West Palm Beach-Boca Raton	221.5	233.3	229.4	15.9	19.6	14.1	7.2	8.4	6.2
<b>GEORGIA</b>	2,356.3	2,432.7	2,422.7	123.5	188.2	170.7	5.2	7.7	7.0
Albany	49.0	53.0	52.7	3.0	4.4	4.4	6.0	8.2	8.4
Atlanta	938.3	959.7	956.7	48.0	58.6	61.3	5.1	6.1	6.4
Augusta	121.5	124.3	123.4	7.0	9.5	8.7	5.8	7.7	7.0
Columbus <sup>1</sup>	86.3	87.2	85.9	5.6	7.4	6.8	6.5	8.4	7.9
Macon	98.1	99.2	98.3	5.5	6.7	6.2	5.6	6.8	6.3
Savannah	87.9	88.0	87.4	4.9	6.5	6.2	5.5	7.4	7.1

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
	AUG. 1979	JUL. 1980	AUG. 1980P	Number			Percent of labor force		
				AUG. 1979	JUL. 1980	AUG. 1980P	AUG. 1979	JUL. 1980	AUG. 1980P
<b>HAWAII</b> .....	404.2	408.1	402.6	24.2	22.1	22.0	6.0	5.4	5.5
Honolulu .....	316.8	319.0	314.5	18.6	16.5	16.4	5.9	5.2	5.2
<b>IDAHO</b> .....	438.2	435.9	433.4	22.0	34.9	34.5	5.0	8.0	8.0
Boise City .....	91.0	90.5	89.1	3.3	5.8	5.3	3.6	6.5	5.9
<b>ILLINOIS</b> <sup>2</sup> .....	5,396.4	5,565.9	5,411.4	250.7	549.1	453.3	4.6	9.9	8.4
Bloomington—Normal .....	57.3	58.3	56.4	1.5	4.1	3.3	2.6	7.0	5.9
Champaign—Urbana—Rantoul .....	79.9	77.5	75.8	2.9	5.3	4.3	3.7	6.8	5.7
Chicago .....	3,368.1	3,485.6	3,398.3	151.6	319.6	270.7	4.5	9.2	8.0
Davenport—Rock Island—Moline <sup>1</sup> .....	182.2	187.4	179.8	6.8	15.0	13.8	3.7	8.0	7.7
Decatur .....	58.2	63.8	59.5	3.4	10.1	7.0	5.9	15.8	11.8
Peoria .....	175.8	178.1	173.9	6.6	16.5	13.9	3.8	9.2	8.0
Rockford .....	137.6	136.3	132.9	6.3	16.6	14.2	4.6	12.2	10.7
Springfield .....	98.8	99.9	96.4	4.5	8.6	7.0	4.6	8.6	7.2
<b>INDIANA</b> .....	2,634.6	2,655.2	2,622.8	173.6	299.7	275.8	6.6	11.3	10.5
Anderson .....	60.9	58.6	57.8	5.8	11.8	11.6	9.5	20.2	20.0
Evansville <sup>1</sup> .....	146.5	145.9	143.6	7.7	12.2	10.1	5.2	8.4	7.1
Fort Wayne .....	197.2	200.1	197.2	11.3	21.8	21.4	5.7	10.9	10.8
Gary—Hammond—East Chicago .....	300.6	310.5	301.5	19.3	43.9	39.1	6.4	14.1	13.0
Indianapolis .....	595.8	612.2	611.8	35.8	51.1	50.5	6.0	8.3	8.3
Lafayette—West Lafayette .....	59.2	60.1	58.7	2.8	4.2	4.0	4.7	7.0	6.8
Muncie .....	55.6	59.4	56.6	4.4	8.7	6.9	8.0	14.6	12.2
South Bend .....	141.3	143.3	140.2	8.7	15.8	13.0	6.1	11.0	9.3
Terre Haute .....	82.5	81.4	79.6	4.7	7.3	6.1	5.7	8.9	7.7
<b>IOWA</b> .....	1,438.1	1,485.8	1,453.3	49.0	92.0	103.1	3.4	6.2	7.1
Cedar Rapids .....	86.5	90.2	89.3	2.6	7.2	7.4	3.0	8.0	8.3
Des Moines .....	181.5	185.5	183.0	6.6	11.6	11.9	3.6	6.2	6.5
Dubuque .....	45.6	46.0	45.2	2.3	4.0	3.9	4.9	8.8	8.6
Sioux City <sup>1</sup> .....	54.1	55.6	54.1	3.4	3.8	3.6	6.3	6.8	6.7
Waterloo—Cedar Falls .....	68.4	71.0	69.9	2.8	5.0	13.7	4.1	7.0	19.6
<b>KANSAS</b> .....	1,206.2	1,229.9	1,215.3	38.8	57.9	57.5	3.2	4.7	4.7
Topeka .....	98.8	99.4	98.4	4.0	5.5	5.8	4.1	5.6	5.9
Wichita .....	231.5	234.6	232.1	7.4	11.3	10.7	3.2	4.8	4.6
<b>KENTUCKY</b> .....	1,571.5	1,599.9	1,625.8	84.4	127.9	132.9	5.4	8.0	8.2
Lexington—Fayette .....	166.7	167.7	170.2	5.3	8.3	8.0	3.2	4.9	4.7
Louisville <sup>1</sup> .....	422.2	425.3	435.0	28.3	30.7	31.6	6.7	7.2	8.5
Owensboro .....	37.7	39.9	41.2	1.9	3.0	3.1	5.1	7.5	7.5
<b>LOUISIANA</b> .....	1,691.6	1,731.1	1,722.8	110.5	118.3	100.8	6.5	6.8	5.9
Alexandria .....	66.8	67.1	67.2	5.6	5.9	5.4	8.5	8.8	8.0
Baton Rouge .....	204.6	208.4	206.6	13.6	13.6	11.8	6.7	6.5	5.7
Lafayette .....	73.4	79.4	79.5	3.3	3.2	2.7	4.5	4.0	3.4
Lake Charles .....	71.3	71.4	70.7	4.7	4.7	4.1	6.6	6.5	5.8
Monroe .....	53.1	52.7	52.0	4.0	4.7	3.9	7.5	8.9	7.6
New Orleans .....	469.4	479.5	475.9	28.5	29.2	25.5	6.1	6.1	5.4
Shreveport .....	153.5	155.3	153.3	9.1	11.6	9.5	6.0	7.5	6.2
<b>MAINE</b> .....	510.5	517.2	521.0	33.0	49.1	38.5	6.5	9.5	7.4
Lewiston—Auburn .....	37.7	38.0	39.1	2.4	4.0	3.2	6.2	10.4	8.2
Portland .....	88.0	90.9	90.8	4.4	6.1	5.1	5.0	6.7	5.6
<b>MARYLAND</b> .....	2,098.9	2,193.8	2,167.8	125.3	150.0	134.9	6.0	6.8	6.2
Baltimore .....	1,047.3	1,090.5	1,069.4	75.9	88.0	79.6	7.2	8.1	7.4
<b>MASSACHUSETTS</b> <sup>2</sup> .....	2,930.7	2,927.6	2,937.1	137.4	178.3	174.9	4.7	6.1	6.0
Boston .....	1,417.2	1,446.0	1,434.9	65.3	75.4	76.6	4.6	5.2	5.3
Brockton .....	81.3	80.8	82.5	4.4	5.9	6.0	5.4	7.3	7.3
Fall River <sup>1</sup> .....	75.8	77.8	78.9	4.1	7.4	6.1	5.4	9.5	7.8
Lawrence—Haverhill <sup>1</sup> .....	141.0	141.9	141.5	7.9	10.0	9.3	5.6	7.0	6.6
Lowell .....	121.2	118.7	123.5	5.9	7.5	7.7	4.9	6.3	6.2
New Bedford .....	80.8	81.4	80.7	4.5	8.0	6.0	5.6	9.9	7.4
Springfield—Chicopee—Holyoke .....	279.4	268.1	268.7	11.4	16.0	16.6	4.1	6.0	6.2
Worcester .....	196.7	196.6	199.2	8.3	11.1	11.4	4.2	5.6	5.7
<b>MICHIGAN</b> <sup>2</sup> .....	4,307.3	4,373.3	4,366.8	324.1	616.6	546.6	7.5	14.1	12.5
Ann Arbor .....	141.0	138.8	141.0	8.4	12.4	12.3	6.0	8.9	8.7

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		
	AUG. 1979	JUL. 1980	AUG. 1980P	AUG. 1979	JUL. 1980	AUG. 1980P	AUG. 1979	JUL. 1980	AUG. 1980P
<b>MICHIGAN—Continued</b>									
Battle Creek .....	80.9	82.8	82.9	4.6	11.0	9.3	5.7	13.3	11.2
Bay City .....	51.3	53.9	54.3	3.8	9.1	8.5	7.3	16.8	15.6
Detroit .....	2,035.7	2,052.3	2,043.0	159.9	298.9	259.1	7.9	14.6	12.7
Flint .....	225.4	233.7	232.0	28.2	51.8	48.1	12.5	22.2	20.7
Grand Rapids .....	309.6	320.3	322.6	13.8	32.7	28.3	4.5	10.2	8.8
Jackson .....	69.5	68.3	67.0	4.5	10.0	7.9	6.5	14.7	11.8
Kalamazoo—Portage .....	131.6	136.0	136.2	6.2	14.0	11.7	4.7	10.3	8.6
Lansing—East Lansing .....	231.3	240.9	244.2	22.2	27.4	30.5	9.6	11.4	12.5
Muskegon—Norton Shores—Muskegon Heights .....	77.9	80.8	80.7	5.4	11.7	10.6	6.9	14.4	13.1
Saginaw .....	104.4	102.6	105.4	8.4	17.2	17.5	8.0	16.7	16.6
<b>MINNESOTA</b> .....	2,101.6	2,167.5	2,134.8	73.9	130.2	115.6	3.5	6.0	5.4
Duluth—Superior <sup>1</sup> .....	119.1	119.9	118.5	6.0	10.5	9.8	5.1	8.7	8.3
Minneapolis—St. Paul .....	1,099.3	1,109.4	1,104.1	35.0	55.0	50.8	3.2	5.0	4.6
<b>MISSISSIPPI</b> .....	989.2	1,043.6	1,029.1	54.0	83.5	75.9	5.5	8.0	7.4
Jackson .....	147.5	157.3	155.2	5.6	8.1	7.5	3.8	5.1	4.8
<b>MISSOURI</b> .....	2,312.0	2,367.1	2,345.1	103.2	177.5	175.8	4.5	7.5	7.5
Kansas City <sup>1</sup> .....	701.6	697.4	694.8	29.3	44.9	50.0	4.2	6.4	7.2
St. Joseph .....	44.5	46.5	46.1	2.0	3.7	3.3	4.5	8.0	7.1
St. Louis <sup>1</sup> .....	1,109.0	1,117.8	1,097.5	62.3	97.0	93.4	5.6	8.7	8.5
Springfield .....	102.9	104.7	104.0	3.7	6.3	6.4	3.6	6.0	6.1
<b>MONTANA</b> .....	391.5	392.4	392.3	15.5	24.1	20.7	4.0	6.1	5.3
Billings .....	56.9	58.3	57.3	1.7	2.9	2.5	2.9	5.0	4.4
Great Falls .....	34.9	34.9	34.4	1.9	2.6	2.3	5.3	7.6	6.6
<b>NEBRASKA</b> .....	784.9	801.5	780.7	21.1	31.7	28.7	2.7	4.0	3.7
Lincoln .....	109.5	110.2	108.9	2.5	4.0	3.6	2.3	3.6	3.3
Omaha <sup>1</sup> .....	279.6	281.7	276.4	10.9	15.7	14.6	3.9	5.6	5.3
<b>NEVADA</b> .....	366.4	380.5	378.1	18.2	25.1	23.7	5.0	6.6	6.3
Las Vegas .....	198.7	208.7	206.6	11.7	16.3	16.1	5.9	7.8	7.8
Reno .....	107.2	109.0	109.0	3.6	5.2	4.5	3.4	4.8	4.2
<b>NEW HAMPSHIRE</b> .....	457.7	473.5	468.8	12.6	26.4	19.7	2.8	5.6	4.2
Manchester .....	79.4	83.4	81.5	2.1	5.3	3.7	2.6	6.3	4.5
Nashua .....	72.2	77.3	77.7	1.7	3.9	3.0	2.4	5.0	3.9
<b>NEW JERSEY</b> .....	3,588.6	3,675.8	3,605.4	258.5	299.5	252.4	7.2	8.1	7.0
Atlantic City .....	105.5	112.2	112.0	8.5	9.0	7.1	8.0	8.0	6.3
Jersey City .....	250.4	251.1	245.5	24.2	28.5	23.2	9.6	11.4	9.5
Long Branch—Asbury Park .....	235.0	239.7	234.1	16.6	19.2	14.6	7.1	8.0	6.2
Newark .....	962.4	985.0	968.5	70.4	80.3	73.2	7.3	8.2	7.6
New Brunswick—Perth Amboy—Sayreville .....	327.0	340.6	333.8	22.3	25.5	23.4	6.8	7.5	7.0
Paterson—Clifton—Passaic .....	220.1	223.5	216.3	21.5	23.1	18.8	9.8	10.3	8.7
Trenton .....	159.7	163.8	161.2	10.1	12.6	10.0	6.3	7.7	6.2
Vineland—Millville—Bridgeton .....	61.9	63.9	62.4	5.4	7.3	5.6	8.7	11.4	8.9
<b>NEW MEXICO</b> .....	542.1	552.5	550.8	33.5	42.5	42.0	6.2	7.7	7.6
Albuquerque .....	201.3	208.1	209.0	12.3	16.9	17.0	6.1	8.1	8.1
<b>NEW YORK<sup>2</sup></b> .....	8,110.1	8,238.9	8,130.8	594.0	669.2	624.6	7.3	8.1	7.7
Albany—Schenectady—Troy .....	384.3	382.2	382.1	19.5	22.4	21.5	5.1	5.9	5.6
Binghamton <sup>1</sup> .....	141.9	141.1	140.4	8.1	10.0	9.4	5.7	7.1	6.7
Buffalo .....	586.6	588.8	586.8	47.8	61.0	62.1	8.1	10.4	10.6
Elmira .....	41.4	40.3	40.8	2.7	3.2	3.1	6.5	8.0	7.6
Nassau—Suffolk .....	1,322.6	1,319.0	1,309.7	87.5	80.8	79.9	6.6	6.1	6.1
New York .....	3,662.6	3,796.6	3,705.3	310.7	347.9	310.0	8.5	9.2	8.4
New York City <sup>2</sup> .....	3,043.0	3,168.0	3,079.0	280.0	319.0	281.0	9.2	10.1	9.1
Poughkeepsie .....	108.2	110.7	110.4	4.5	5.7	5.8	4.2	5.2	5.2
Rochester .....	478.0	473.1	471.0	26.8	30.3	27.6	5.6	6.4	5.9
Syracuse .....	306.8	306.8	306.7	17.4	23.2	23.1	5.7	7.6	7.5
Utica—Rome .....	141.0	141.5	140.8	8.1	11.1	10.3	5.7	7.8	7.3
<b>NORTH CAROLINA</b> .....	2,740.3	2,818.0	2,786.4	126.8	229.0	194.5	4.6	8.1	7.0
Asheville .....	86.7	88.7	86.9	3.4	5.5	5.2	3.9	6.1	5.9
Charlotte—Gastonia .....	335.2	345.3	343.4	13.5	19.2	17.3	4.0	5.6	5.0

See footnotes at end of table.



# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1979	JUL. 1980	AUG. 1980P	AUG. 1979	JUL. 1980	AUG. 1980P	AUG. 1979	JUL. 1980	AUG. 1980P
<b>NORTH CAROLINA—Continued</b>									
Greensboro—Winston-Salem—High Point .....	415.8	433.2	430.2	17.0	29.9	29.5	4.1	6.9	6.9
Raleigh—Durham .....	281.1	294.7	292.4	9.0	14.8	13.7	3.2	5.0	4.7
<b>NORTH DAKOTA</b> .....	336.9	334.4	331.1	7.9	17.3	16.0	2.3	5.2	4.8
Fargo—Moorehead <sup>1</sup> .....	72.4	72.1	70.7	2.2	4.5	4.0	3.0	6.2	5.6
<b>OHIO<sup>2</sup></b> .....	5,131.5	5,240.1	5,210.0	352.7	536.4	473.6	6.9	10.2	9.1
Akron .....	306.3	312.6	311.8	20.4	30.7	27.7	6.7	9.8	8.9
Canton .....	188.4	193.0	193.9	10.8	22.0	20.1	5.7	11.4	10.3
Cincinnati <sup>1</sup> .....	668.0	686.4	685.4	42.6	55.1	51.3	6.4	8.0	7.5
Cleveland .....	946.1	973.0	966.1	52.4	88.8	78.0	5.5	9.1	8.1
Columbus .....	545.0	556.5	555.2	27.6	37.2	35.6	5.1	6.7	6.4
Dayton .....	393.6	396.2	394.3	32.8	37.0	31.7	8.3	9.3	8.0
Toledo <sup>1</sup> .....	371.5	376.5	373.7	28.7	46.5	39.7	7.7	12.4	10.6
Youngstown—Warren .....	245.2	247.8	242.1	26.2	37.3	30.9	10.7	15.0	12.8
<b>OKLAHOMA</b> .....	1,284.8	1,318.6	1,309.4	39.2	57.8	55.1	3.1	4.4	4.2
Oklahoma City .....	392.5	412.5	410.9	11.1	16.0	15.7	2.8	3.9	3.8
Tulsa .....	309.7	313.6	311.9	8.8	12.6	12.3	2.9	4.0	3.9
<b>OREGON</b> .....	1,227.6	1,262.1	1,261.6	74.8	113.4	107.1	6.1	9.0	8.5
Eugene—Springfield .....	126.1	129.8	130.1	9.7	13.9	13.1	7.7	10.7	10.0
Portland <sup>1</sup> .....	591.8	625.0	616.9	30.2	43.9	42.1	5.1	7.0	6.8
Salem .....	118.1	121.4	127.0	5.3	9.3	8.4	4.5	7.7	6.6
<b>PENNSYLVANIA<sup>2</sup></b> .....	5,339.0	5,417.3	5,437.2	372.0	502.2	442.1	7.0	9.3	8.1
Allentown—Bethlehem—Easton <sup>1</sup> .....	301.0	304.9	304.0	21.3	27.0	23.3	7.1	8.8	7.7
Altoona .....	58.4	60.9	61.4	4.9	6.2	6.0	8.5	10.2	9.8
Erie .....	127.2	127.9	128.2	8.9	12.9	12.2	7.0	10.1	9.5
Harrisburg .....	221.4	222.4	223.3	11.1	14.8	13.5	5.0	6.7	6.0
Johnstown .....	111.5	111.2	113.0	10.6	15.2	14.8	9.5	13.7	13.1
Lancaster .....	177.6	178.0	179.9	8.4	11.4	9.6	4.7	6.4	5.3
Northeast Pennsylvania .....	287.0	292.6	292.4	25.2	35.6	28.1	8.8	12.2	9.6
Philadelphia <sup>1</sup> .....	2,121.9	2,151.9	2,156.3	154.5	170.7	152.6	7.3	7.9	7.1
Pittsburgh .....	1,017.0	1,029.0	1,029.3	59.7	88.6	79.7	5.9	8.6	7.7
Reading .....	150.7	154.0	155.0	8.4	15.2	12.1	5.6	9.8	7.8
Williamsport .....	53.3	54.0	54.4	5.4	7.1	7.7	10.1	13.2	14.2
York .....	171.9	175.1	175.6	9.1	16.1	12.9	5.3	9.2	7.3
<b>RHODE ISLAND</b> .....	457.9	457.1	459.9	31.2	35.5	33.6	6.8	7.8	7.3
Providence—Warwick—Pawtucket <sup>1</sup> .....	456.6	448.7	453.4	31.2	35.9	34.5	6.8	8.0	7.6
<b>SOUTH CAROLINA</b> .....	1,319.1	1,315.1	1,320.2	66.6	108.9	90.4	5.0	8.3	6.8
Charleston—North Charleston .....	154.4	156.1	157.0	8.5	11.9	10.1	5.5	7.6	6.4
Columbia .....	171.8	170.1	172.5	6.8	8.2	8.1	4.0	4.8	4.7
Greenville—Spartanburg .....	258.5	258.5	256.9	10.1	19.2	14.9	3.9	7.4	5.8
<b>SOUTH DAKOTA</b> .....	356.4	356.0	350.3	10.3	18.0	16.8	2.9	5.0	4.8
Sioux Falls .....	62.3	59.6	58.3	1.4	3.1	2.8	2.2	5.2	4.7
<b>TENNESSEE</b> .....	1,990.6	2,025.2	2,019.7	105.3	172.4	152.3	5.3	8.5	7.5
Chattanooga <sup>1</sup> .....	193.6	197.3	195.5	11.2	17.7	15.4	5.8	9.0	7.9
Knoxville .....	202.9	208.2	209.0	7.7	12.7	12.0	3.8	6.1	5.8
Memphis <sup>1</sup> .....	385.2	390.5	390.3	18.7	25.1	23.8	4.8	6.4	6.1
Nashville—Davidson .....	414.1	416.2	415.4	18.6	27.3	24.1	4.5	6.6	5.8
<b>TEXAS<sup>2</sup></b> .....	6,251.5	6,506.4	6,542.7	288.5	361.3	377.0	4.6	5.6	5.8
Amarillo .....	88.2	89.7	89.9	3.3	3.9	3.8	3.7	4.3	4.2
Austin .....	245.4	256.1	257.8	8.1	10.1	10.5	3.3	4.0	4.1
Beaumont—Port Arthur—Orange .....	162.3	163.3	163.8	10.2	11.8	12.1	6.3	7.2	7.4
Corpus Christi .....	141.4	145.0	143.8	7.8	9.5	9.5	5.5	6.6	6.6
Dallas—Fort Worth .....	1,480.0	1,561.9	1,576.2	60.0	74.8	82.3	4.1	4.8	5.2
El Paso .....	169.7	174.9	176.0	14.3	16.4	17.2	8.4	9.4	9.7
Galveston—Texas City .....	81.0	87.8	87.3	4.4	6.1	5.9	5.5	6.9	6.8
Houston .....	1,427.7	1,487.0	1,497.9	51.2	68.0	68.2	3.6	4.6	4.5
Lubbock .....	99.9	102.8	103.0	3.8	4.7	4.9	3.8	4.6	4.7
San Antonio .....	410.9	426.8	428.8	26.4	29.9	30.4	6.4	7.0	7.1
Waco .....	87.0	80.8	81.2	3.6	4.9	5.1	4.7	6.1	6.2
Wichita Falls .....	59.1	61.2	61.4	1.9	2.9	2.6	3.3	4.7	4.3

See footnotes at end of table.

# STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1979	JUL. 1980	AUG. 1980P	AUG. 1979	JUL. 1980	AUG. 1980P	AUG. 1979	JUL. 1980	AUG. 1980P
<b>UTAH</b> .....	596.3	612.3	612.2	23.5	37.3	36.0	3.9	6.1	5.9
Salt Lake City—Ogden .....	393.4	400.0	400.1	15.8	23.0	22.8	4.0	5.7	5.7
<b>VERMONT</b> .....	243.0	245.6	247.2	11.1	16.6	15.7	4.6	6.8	6.4
<b>VIRGINIA</b> .....	2,496.3	2,551.0	2,536.0	106.3	147.5	137.7	4.3	5.8	5.4
Lynchburg .....	75.9	76.9	77.4	2.7	5.3	4.6	3.5	6.9	5.9
Newport News—Hampton .....	162.1	172.8	172.1	7.9	9.4	9.6	4.9	5.5	5.6
Norfolk—Virginia Beach—Portsmouth <sup>1</sup> .....	325.9	332.8	330.4	16.7	20.2	19.5	5.1	6.1	5.9
Petersburg—Colonial Heights—Hopewell .....	58.7	63.1	62.7	3.2	4.2	4.3	5.4	6.6	6.9
Richmond .....	325.3	331.3	330.8	10.1	12.9	12.6	3.1	3.9	3.8
Roanoke .....	110.3	114.3	114.0	4.7	6.6	6.0	4.2	5.8	5.3
<b>WASHINGTON</b> .....	1,917.6	1,914.2	1,898.5	118.5	155.3	143.6	6.2	8.1	7.6
Seattle—Everett .....	837.4	841.2	838.9	42.4	55.8	52.6	5.1	6.6	6.3
Spokane .....	149.8	148.1	146.6	8.9	11.8	10.9	6.0	8.0	7.4
Tacoma .....	177.7	169.6	168.7	11.9	15.2	14.0	6.7	9.0	8.3
<b>WEST VIRGINIA</b> .....	755.3	777.5	765.4	43.3	76.7	74.5	5.7	9.9	9.7
Charleston .....	127.9	131.8	130.9	4.7	9.4	10.2	3.7	7.1	7.8
Huntington—Ashland <sup>1</sup> .....	127.4	130.3	129.7	7.3	13.1	12.0	5.7	10.0	9.3
Parkersburg—Marietta <sup>1</sup> .....	72.3	72.4	72.3	3.9	6.6	6.9	5.4	9.1	9.5
Wheeling <sup>1</sup> .....	82.3	83.7	82.7	4.0	8.1	7.7	4.9	9.7	9.4
<b>WISCONSIN</b> .....	2,416.4	2,431.3	2,406.0	94.9	177.8	164.7	3.9	7.3	6.8
Appleton—Oshkosh .....	153.9	154.2	153.9	6.0	11.0	11.3	3.9	7.2	7.4
Eau Claire .....	57.1	58.5	57.5	2.7	3.7	3.5	4.8	6.4	6.1
Green Bay .....	90.0	90.8	90.9	3.9	5.7	5.4	4.4	6.2	5.9
Kenosha .....	67.0	65.3	62.9	3.2	7.3	4.2	4.7	11.2	6.7
La Crosse .....	45.4	46.9	47.0	1.8	2.4	2.5	3.9	5.2	5.3
Madison .....	181.2	188.3	186.8	5.8	8.6	8.3	3.2	4.6	4.4
Milwaukee .....	731.8	747.8	736.7	24.7	50.4	46.7	3.4	6.7	6.3
Racine .....	89.7	90.6	86.1	4.2	8.4	7.9	4.7	9.3	9.1
<b>WYOMING</b> .....	232.3	243.5	241.8	5.2	8.8	8.1	2.2	3.6	3.3

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

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

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

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 compiled from two major sources: (1) Household interviews, and (2) reports from employers.

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

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

### RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

#### Employment

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

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

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

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

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

#### Hours of work

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

#### Earnings

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

## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

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

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

## COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

# Household Data (A tables)

## COLLECTION AND COVERAGE

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

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

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

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

Beginning in September 1975, the sample was enlarged by 9,000 households in order to provide greater reliability for smaller States

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

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

## CONCEPTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

*Vietnam-era veterans* are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Tables for veterans in this volume are limited to males in the civilian noninstitutional population, i.e., veterans in institutions and females are excluded.

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

The *poverty areas* classification consists of all Census geographical divisions in which 20 percent or more of the residents were poor according to the 1970 Decennial Census. Persons were classified as poor or nonpoor by using income thresholds adopted by a Federal interagency

committee in 1969. These thresholds vary by family size, composition, and residence (farm-nonfarm). While poverty areas have a substantial concentration of low-income residents, many poor persons live outside these areas and, conversely, the areas include many people who are not poor.

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

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

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

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

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

## HISTORIC COMPARABILITY

### Raised lower age limit

Beginning with data for 1967, the lower age limit for official statistics on persons in the labor force was raised from 14 to 16 years. A detailed discussion of this and other definitional changes introduced at that time, including estimates of their effect on the various series is contained in "New Definitions for Employment and Unemployment" by Robert L. Stein in the February 1967 issue of *Employment and Earnings and Monthly Report on the Labor Force*. Reprints may be obtained upon request.

### Noncomparability of labor force levels

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

in nonagricultural employment; other labor force categories were not appreciably affected; (3) beginning in 1962, the introduction of figures from the 1960 census reduced the population by about 50,000, labor force and employment by about 200,000; unemployment totals were virtually unchanged. In addition, beginning in 1972, information from the 1970 census was introduced into the estimation procedures, producing an increase in the civilian noninstitutional population of about 800,000; labor force and employment totals were raised by a little more than 300,000, and unemployment levels and rates were essentially unchanged. A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment affected the white and black and other groups but had little effect on totals. The adjustment resulted in the reduction of nearly 300,000 in the white population and an increase of the same magnitude in the black and other population. Civilian labor force and total employment figures were affected to a lesser degree; the white labor force was reduced by 150,000, and the black and other labor force rose by about 210,000. Unemployment levels and rates were not significantly affected.

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

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

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

Beginning in October 1978, the race of the individual was determined by the household respondent for the incoming rotation group households, rather than determined by the interviewer as before. The purpose of this change was to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. The new procedure had no significant effect on the estimates.

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

### Changes in the occupational classification system

Beginning with 1971, the comparability of occupational employment data was affected as a result of changes in census occupational

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

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

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

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

### Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for 8 months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a non-contiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual average estimates for States, was incorporated with the existing design. A coverage improvement sample composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. A recent change was introduced in January 1980, when another supplemental

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

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

## ESTIMATING METHODS

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

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

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 4 to 5 percent depending on weather, vacations, etc.

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

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

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

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

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

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



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

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

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

### **Rounding of estimates**

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

### **Reliability of the estimates**

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

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

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

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

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

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

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

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

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

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

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

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

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table I contains factors for use with tables C, E, G, and H to compute approximate standard errors, as described below, for levels, labor force participation rates, and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-66 period they should be multiplied by 1.22. Table J provides generalized standard errors for quarterly estimates of persons and families for use with the CPS earnings data.

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

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

*Standard errors for rates and percentages.* The reliability of an estimated unemployment rate or an estimated percentage, computed using sample data for both numerator and denominator, depends on both the size of the rate or percentage and the total upon which the rate or percentage is based. Estimated rates and percentages are relatively more reliable than the corresponding estimates of the numerator of the rates or percentages; this is particularly true for percentages of 50 percent or more. As a general rule, percentages are

not published when the monthly base is less than 75,000 or the annual average base is less than 35,000.

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

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

*Illustration.* For example, assume that in a given month 3.6 percent of a total of 90,771,000 employed persons are employed in agriculture. First the standard error on an estimate of 3.6 percent with a base of 90,771,000 is obtained from table G (0.09 percentage point). The appropriate factor from table H for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error

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

Employment status, sex, age, and race	Standard error of—	
	Monthly level	Month-to-month change (consecutive months only)
<b>Total, 16 years and over:</b>		
Civilian labor force .....	208	161
Employed .....	229	175
Unemployed .....	122	123
<b>Males, 20 years and over:</b>		
Civilian labor force .....	113	95
Employed .....	131	114
Unemployed .....	84	85
<b>Females, 20 years and over:</b>		
Civilian labor force .....	167	124
Employed .....	168	128
Unemployed .....	71	74
<b>Both sexes, 16-19 years:</b>		
Civilian labor force .....	80	85
Employed .....	85	94
Unemployed .....	58	72
<b>Black and other, 16 years and over:</b>		
Civilian labor force .....	73	56
Employed .....	84	63
Unemployed .....	59	62
<b>Males, 20 years and over:</b>		
Civilian labor force .....	40	34
Employed .....	49	43
Unemployed .....	40	42
<b>Females, 20 years and over:</b>		
Civilian labor force .....	62	46
Employed .....	62	48
Unemployed .....	36	40
<b>Both sexes, 16-19 years:</b>		
Civilian labor force .....	33	37
Employed .....	31	36
Unemployed .....	28	30

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

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

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

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

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

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

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

*Illustration:*

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

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

or about 259,000.

**Table B. Standard errors for unemployment rates by major characteristics**

Selected categories	Standard error of—		Selected categories	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers) . . . . .	0.12	0.12	<b>OCCUPATION—Continued</b>		
Males, 20 years and over . . . . .	.15	.15	Blue collar workers—Continued		
Females, 20 years and over . . . . .	.17	.18	Operatives, except transport . . . . .	.44	.50
Both sexes, 18-19 years . . . . .	.57	.87	Transport equipment operatives . . . . .	.70	.77
White workers . . . . .	.12	.12	Nonfarm laborers . . . . .	.71	.81
Black (and other) workers . . . . .	.46	.49	Service workers . . . . .	.32	.36
Married men, spouse present . . . . .	.15	.16	Farm workers . . . . .	.54	.62
Married women, spouse present . . . . .	.21	.23	<b>INDUSTRY</b>		
Full-time workers . . . . .	.12	.13	Nonagricultural private wage and salary workers . . . . .	.13	.13
Part-time workers . . . . .	.32	.40	Construction . . . . .	.59	.70
Unemployed 15 weeks and over . . . . .	.06	.07	Manufacturing . . . . .	.27	.30
<b>OCCUPATION</b>			Durable goods . . . . .	.37	.41
White-collar workers . . . . .	.12	.13	Nondurable goods . . . . .	.39	.45
Professional and technical . . . . .	.18	.20	Transportation and public utilities . . . . .	.38	.42
Managers and administrators, except farm . . . . .	.20	.23	Wholesale and retail trade . . . . .	.26	.29
Sales workers . . . . .	.36	.41	Finance and service industries . . . . .	.17	.19
Clerical workers . . . . .	.23	.25	Government workers . . . . .	.20	.23
Blue-collar workers . . . . .	.24	.26	Agricultural wage and salary workers . . . . .	1.07	1.26
Craft and kindred workers . . . . .	.33	.37			

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

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

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

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

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

(In thousands)

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

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

<sup>2</sup> Part-time labor force for unemployment also includes persons

reentering the labor force, persons who left their last job, and persons by duration of unemployment.

**Table E. Standard errors for unemployment rates**

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

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

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

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

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

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

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

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

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

Characteristic	Factors				
	Year-to-year change of monthly estimate	Quarterly averages	Change in quarterly averages	Yearly averages	Change in yearly averages
Agricultural employment:					
Total or males . . . . .	1.30	0.89	0.80	0.72	0.70
Females or teenagers (16-19 years) . . . . .	1.30	.83	.80	.58	.70
Part time . . . . .	1.40	.74	.80	.46	.70
Labor force data other than agricultural employment data and unemployment data:					
Total or white . . . . .	1.30	.88	.88	.67	.70
Black and other or teenagers (16-19 years) . . . . .	1.30	.82	.88	.57	.70
Part time . . . . .	1.40	.74	.88	.46	.60
Unemployment:					
Total . . . . .	1.40	.76	.88	.50	.65
Part time . . . . .	1.40	.69	.88	.39	.54

**Table J. Standard errors for estimates of quarterly level**

(In thousands)

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



# Establishment Data (B, C, and D tables)

## COLLECTION

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

### Federal-State cooperation

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

### Shuttle schedules

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

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

## CONCEPTS

### Industrial classification

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

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

### Industry employment

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

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

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

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

### Industry hours and earnings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### Labor turnover

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

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

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

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

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

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

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

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

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

### Relationship of labor turnover to employment series

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

## ESTIMATING METHODS

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

### The "link relative" technique

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

### Size and regional stratification

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

### Benchmark adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1978 levels. Normally, benchmark adjustments are made annually.

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

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

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

## THE SAMPLE

### Design

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

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

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

See footnotes at end of table.

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

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

<sup>1</sup> 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.

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

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

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

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

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

**Coverage**

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

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

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

**Table M. Approximate size and coverage of BLS employment and payrolls sample, March 1979<sup>1</sup>**

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 <sup>2</sup> .....	4,700	2,740,000	100
State and local .....	13,100	8,041,000	60

<sup>1</sup> 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.

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

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

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

**Reliability of the employment estimates**

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

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

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

[In percent]

Industry division	Average benchmark revision in estimates of employment <sup>1</sup>	Relative errors <sup>2</sup> (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 <sup>3</sup> .....	.5	—	—

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

<sup>2</sup> Relative errors relate to March 1971 data.

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

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

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

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

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

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

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

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

<sup>1</sup> Assuming 12-month intervals between benchmark revisions.

<sup>2</sup> Relative errors relate to March 1971 data.

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

## STATISTICS FOR STATES AND AREAS

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

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

**Table Q. Errors of preliminary employment estimates**

Category	Root-mean-square error of—	
	Monthly level	Month-to-month change
<b>INDUSTRY DIVISIONS</b>		
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
<b>DETAILED INDUSTRIES: SIZE OF EMPLOYMENT ESTIMATE</b>		
50,000 .....	300	400
100,000 .....	700	700
200,000 .....	1,100	1,100
500,000 .....	3,900	4,100
1,000,000 .....	3,800	3,900
2,000,000 .....	6,000	6,100

NOTE: Division level data are based on differences from January 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 institutional, 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 measure 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 or used during the first 6 months of the year rather than for the entire year. In July of each year, the BLS will calculate and publish (in *Employment and Earnings*) a new set of seasonal factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years will continue to be made once a year, at the beginning of each calendar year.

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

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

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

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

workers, seasonally adjusted, and dividing by the 1967 base. For total private, total goods-producing private service-producing, trade, manufacturing, and durable and nondurable goods industries, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours, seasonally adjusted, for the appropriate component industries and dividing by the 1967 base.

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

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

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

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

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

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