

# EMPLOYMENT AND EARNINGS

VOL. 17 NO. 5 NOVEMBER 1970

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## Editors' Note

Beginning with this issue, five new tables (C-11 through C-15) containing trends in compensation will appear each month in Employment and Earnings. The data on average hourly compensation are developed by the Bureau's Office of Productivity, Technology, and Growth from Department of Commerce estimates of compensation and BLS man-hour estimates. Data on wages and selected benefits (7 building trades) are prepared by the BLS Office of Wage and Industrial Relations. Wage rates for hired farm labor are provided by the Department of Agriculture and are also published quarterly in Farm Labor. A summary of the scope, concepts, and methods of these series follows table C-15.

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CALENDAR OF FEATURES								
In addition to the monthly data appearing regularly in Employment and Earnings, special features appear in most of the issues, as shown below:								
	Jan.	Feb.	Mar.	Apr.	May	June	July	Oct.
<b>Household data</b>								
Annual averages	x							
Revised seasonally adjusted series and current seasonal factors		x						
Quarterly averages	x			x			x	x
<b>Establishment data</b>								
National annual averages:								
Industry divisions (preliminary)	x							
Industry detail (final)			x					
State and area annual averages					x			
Area definitions					x			
National data adjusted to new benchmarks						x		
Revised seasonally adjusted series and current seasonal factors						x		

# Employment and Unemployment Developments, October 1970

The employment situation was basically unchanged in October except for the effects of the strike in the automobile industry.

At 5.6 percent in October, the overall unemployment rate was about the same as in September, when it had risen sharply. The number of unemployed workers was 4.3 million in October, unchanged from September. For most major groups in the labor force, jobless rates showed little or no change over the month, although the rate for married men continued to edge up. Some unemployment rates, however, were raised slightly by the secondary effects of the strike in the auto industry.

Total employment, which includes workers in agriculture, the self-employed, unpaid family workers, and private household workers as well as wage and salary workers in nonfarm industries, edged up in October on a seasonally adjusted basis. However, nonfarm payroll employment decreased by 480,000 over the month, after seasonal adjustment. There was an even greater decline in manufacturing, centered in the durable goods industries. These declines were largely the result of the strike in the automobile industry. Employment increases in the service-producing industries helped to counter the decrease in manufacturing employment. (In the figures on total employment from the household series, workers on strike are counted as "employed—with a job but not at work" rather than as unemployed; in the series on nonfarm payroll employment, strikers are not on payrolls and are thus not counted as employed.)

## Industry payroll employment

Nonagricultural payroll employment, which usually rises between September and October, declined this October to 70.6 million. After seasonal adjustment, payroll employment was down 480,000 over the month, following a 200,000 increase in September (as revised). Most of the October job loss was attributable to the strike in

the automobile industry. Sizable job gains in the service-producing industries provided a partial offset to the very large employment reduction in manufacturing.

In manufacturing, employment declined by 610,000, seasonally adjusted, between September and October. Most of this decline resulted from the primary effects of the strike, which involved an estimated 325,000 workers; a significant part of the remaining employment reductions were secondary effects of the strike.

The employment drop in manufacturing was greatest in the durable goods sector—525,000. Although all durables industries showed a decline, the largest occurred in the five metals and metal-using industries which were most heavily affected by the strike. Employment fell by 280,000 in transportation equipment, 70,000 in electrical equipment, 55,000 in primary metals, 45,000 in machinery, and 40,000 in fabricated metals. In nondurable goods, a decline of 85,000 was concentrated in food processing (30,000), rubber (20,000), apparel (15,000), and textiles (10,000).

Employment in contract construction was 3.2 million, seasonally adjusted, about unchanged from the September level. Over the year, construction employment was down by 210,000, or 5.8 percent.

Among the service-producing industries, job pickups took place in services (60,000), trade (45,000), State and local government (15,000), and finance, insurance, and real estate (15,000). After showing little or no growth this past summer, employment in the services industries has increased substantially in the past 2 months.

## Unemployment

The actual number of unemployed workers totaled 4.3 million in October. After seasonal adjustment, unemployment was little changed, following a sharp rise in September.

Since last October, the number of unemployed persons has risen by 1.4 million—725,000 adult men, 400,000 adult women, and 300,000 teenagers. Nearly 85 percent of the over-the-year increase was among full-time workers, mostly persons who had lost their last jobs.

Over the month, jobless rates for most major groups in the labor force were unchanged. Rates for adult men (4.1 percent), adult women (5.1 percent), and teenagers (17.1 percent) were all essentially the same as in September, when they reached or equaled their highest levels since 1964. Unemployment rates for both full-time workers (5.0 percent) and part-time workers (8.2 percent) also showed little change over the month, following increases in September. However, the unemployment rate for married men, at 3.1 percent, edged up over the month, continuing the upward trend in evidence since last winter.

For both Negro and white workers, unemployment rates were also virtually unchanged in October. The Negro rate was 9.3 percent and the white rate 5.2 percent.

The unemployment rate for workers covered by State unemployment insurance programs moved up from 4.2 to 4.4 percent in October, following a greater rise in September. The October increase reflected the impact of the automobile strike and brought the rate to twice that of October 1969 and the highest since January 1964.

Among the major occupational groups, the rate for white-collar workers rose from 2.8 to 3.2 percent, primarily reflecting increased joblessness among clerical workers. The October rate for white-collar workers was the highest since November 1961. The jobless rate for operatives, many of whom work in manufacturing, rose to 8.5 percent. On the other hand, unemployment rates for craftsmen (4.1 percent) and nonfarm laborers (10.7 percent) fell in October, after increasing significantly in September. Both rates returned to approximate their August levels.

Among the major industry divisions, the jobless rate for persons who last worked in manufacturing rose in October to 6.7 percent. Rates in construction and the finance and service industries moved down over the month.

The number of persons unemployed 15 weeks and over totaled 745,000 (seasonally adjusted) in October, down very slightly from September.

The average duration of unemployment fell from 8.9 to 8.3 weeks, the lowest level in 6 months.

The number of persons who worked part time for economic reasons in nonagricultural industries but wanted full-time jobs increased by 315,000 (seasonally adjusted) in October to 2.4 million; this was also a reflection of the production cutbacks and short workweeks resulting from the automobile strike. The ratio of labor force time lost by persons working part time involuntarily as well as by the unemployed rose to 6.2 percent, the highest point since January 1964. (Labor force time lost is a measure of man-hours lost to the economy through unemployment and involuntary part-time employment, taken as a percent of total man-hours offered by those in the labor force.)

#### Civilian labor force and total employment

The civilian labor force increased in October more than it usually does at this time of year and, after seasonal adjustment, was up by 325,000, to 83.4 million. The over-the-month increase was concentrated among adult women. Compared with October 1969, the civilian labor force has grown by 1.7 million—775,000 adult women, 750,000 adult men, and 140,000 teenagers.

Total employment rose by 265,000, seasonally adjusted, in October. The increase brought the total to 78.7 million, the same as in July but well below the peak reached in March. Over the year, total employment has risen by 250,000, with only adult women showing an increase.

#### Hours of work

The average workweek for all rank-and-file workers on private nonagricultural payrolls was 36.9 hours in October, unchanged on a seasonally adjusted basis. In September, average weekly hours had fallen sharply because of the inclusion of the Labor Day holiday in the reference week. Hours generally failed to rebound from this artificially low level, a reflection of the production cutbacks and the consequent shorter work schedules resulting from the automobile strike. However, the workweek did return to August levels in many of the manufacturing industries not affected by the strike.

In manufacturing, the average workweek was 39.4 hours, seasonally adjusted, up 0.1 hour from the low September level. The October workweek was 0.4 hour below the August level, and 1.1 hours lower than a year ago. The small September-October increase in manufacturing took place in nondurable goods, where the workweek rose from 38.6 to 38.9 hours. Overtime hours in manufacturing were unchanged over the month at 2.7 hours, the lowest level since 1963.

### Earnings

Average hourly earnings of production and nonsupervisory workers on private payrolls re-

mained unchanged in October at \$3.28. Compared with a year ago, average hourly earnings were up 16 cents, or 5.1 percent.

Average weekly earnings decreased by 33 cents over the month to \$121.03, as a result of a small actual decline in the workweek. Declines in manufacturing and trade more than offset gains in the other major industry divisions. Compared with October 1969, weekly earnings increased by \$3.72, or 3.2 percent.

Over the year ending in September 1970, average weekly earnings rose by 3.0 percent; after adjustment for consumer price changes; however, earnings were down by 2.5 percent.

## Job Vacancies in Manufacturing, August 1970

The job vacancy<sup>1</sup> rate in the Nation's manufacturing industries was seven per thousand jobs at the end of August as compared with six per thousand in July. The total number of job vacancies in August was 137,000, compared with 126,000 in July and 123,000 in June. The 2-month rise was the first to occur since August 1969. In that month, however, 312,000 vacancies were reported. The small rise in the vacancy level this August was similar to the increase in 1969 and appears to reflect seasonal influences in the demand for new workers; for example, in other related data, the number of job openings listed with the public employment service typically rises in the late summer, as do new hires and employment in the manufacturing industries.

Vacancy rates continued to be below the year-ago levels in all durable and nondurable goods industries for which data are available. The vacancy rate for the durable goods industries as a group was six vacancies per thousand jobs in August 1970 and 16 per thousand in August 1969. The largest over-the-year declines were in the instruments industry, which had seven vacancies per thousand jobs in August 1970 compared with 23 per thousand last year, and in the machinery industry, which had six vacancies per thousand jobs in August 1970 and 19 per thousand in August 1969.

In the nondurable goods industries, the job vacancy rate was eight per thousand jobs this August as against 13 per thousand last year. The

largest decline among the nondurable goods industries was in printing and publishing.

The rate of long-term job vacancies (those vacancies which have remained unfilled for 30 days or more) remained unchanged from July to August at two vacancies per thousand jobs. Long-term vacancies as a percent of total vacancies continued to decline, however. In August 1969, 39 percent of all vacancies had remained unfilled for at least 30 days; in August 1970, long-term vacancies were 31 percent of total job vacancies.

Job vacancy data by occupation and for manufacturing establishments in 12 metropolitan areas are available for August. The areas represented 18 percent of the Nation's manufacturing employment and manufacturing vacancies in August. Almost 30 percent of the available vacancies were for "white-collar" jobs; "blue-collar" and service jobs accounted for the remainder.

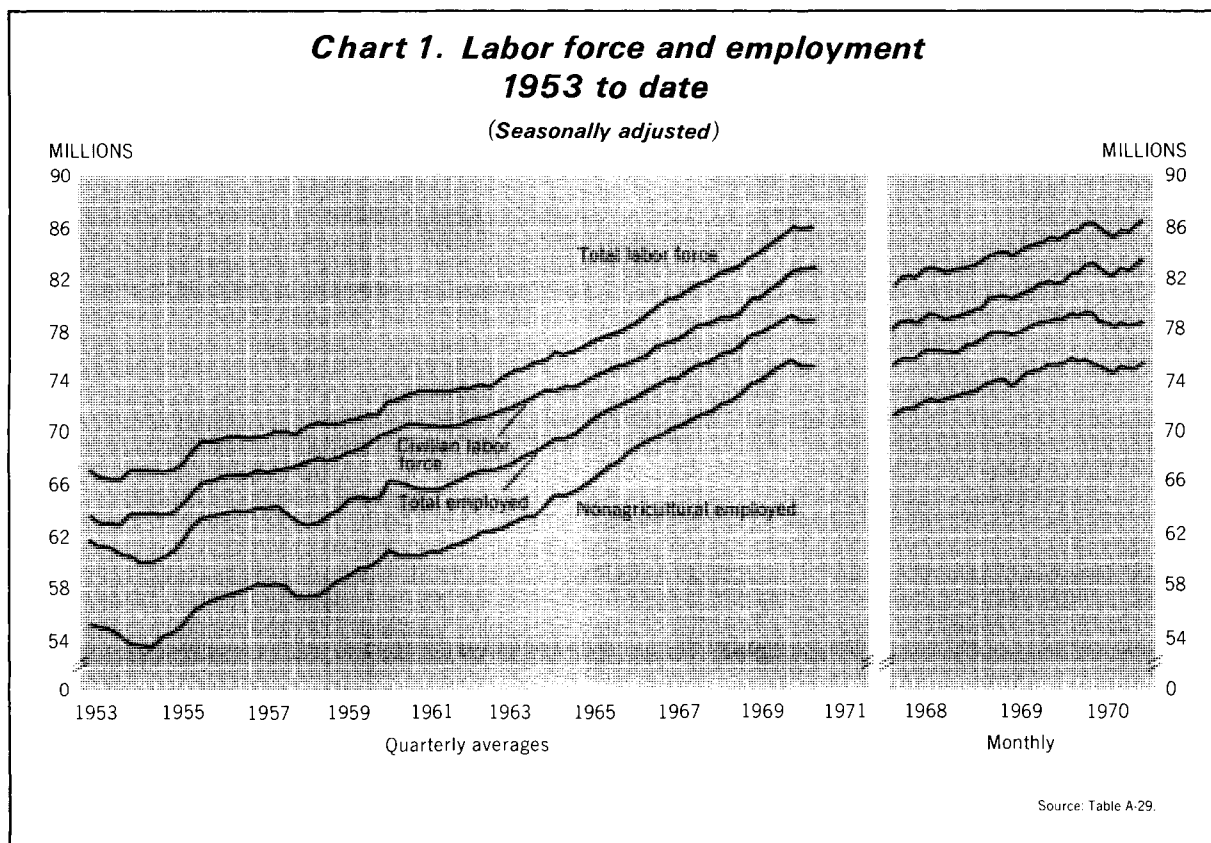
Among the "white-collar" occupation groups, the largest number of job opportunities were in the clerical category, and bench work accounted for most job vacancies in the "blue-collar" occupation groups.

Additional detail on job vacancies can be found in tables E-1 through E-3. Data are provided for 32 metropolitan areas in table E-4.

<sup>1</sup>/ A job vacancy is defined as an immediately available employment opportunity for which the firm is actively trying to recruit a new worker.

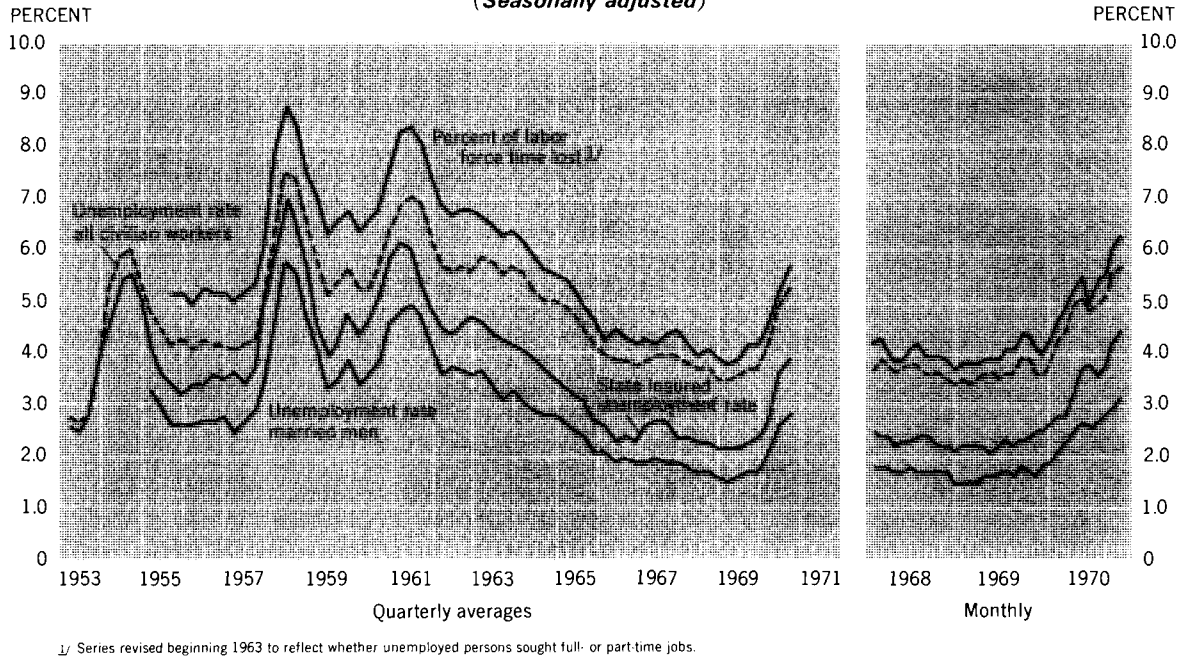
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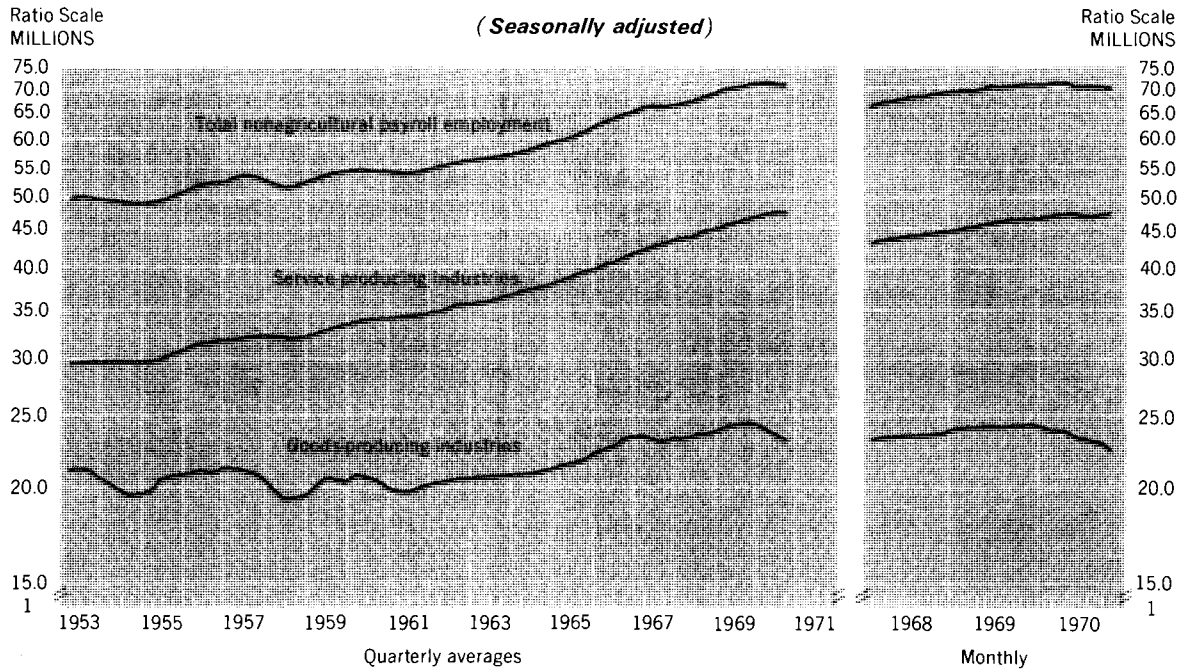
**Chart 2. Major unemployment indicators  
1953 to date**

(Seasonally adjusted)



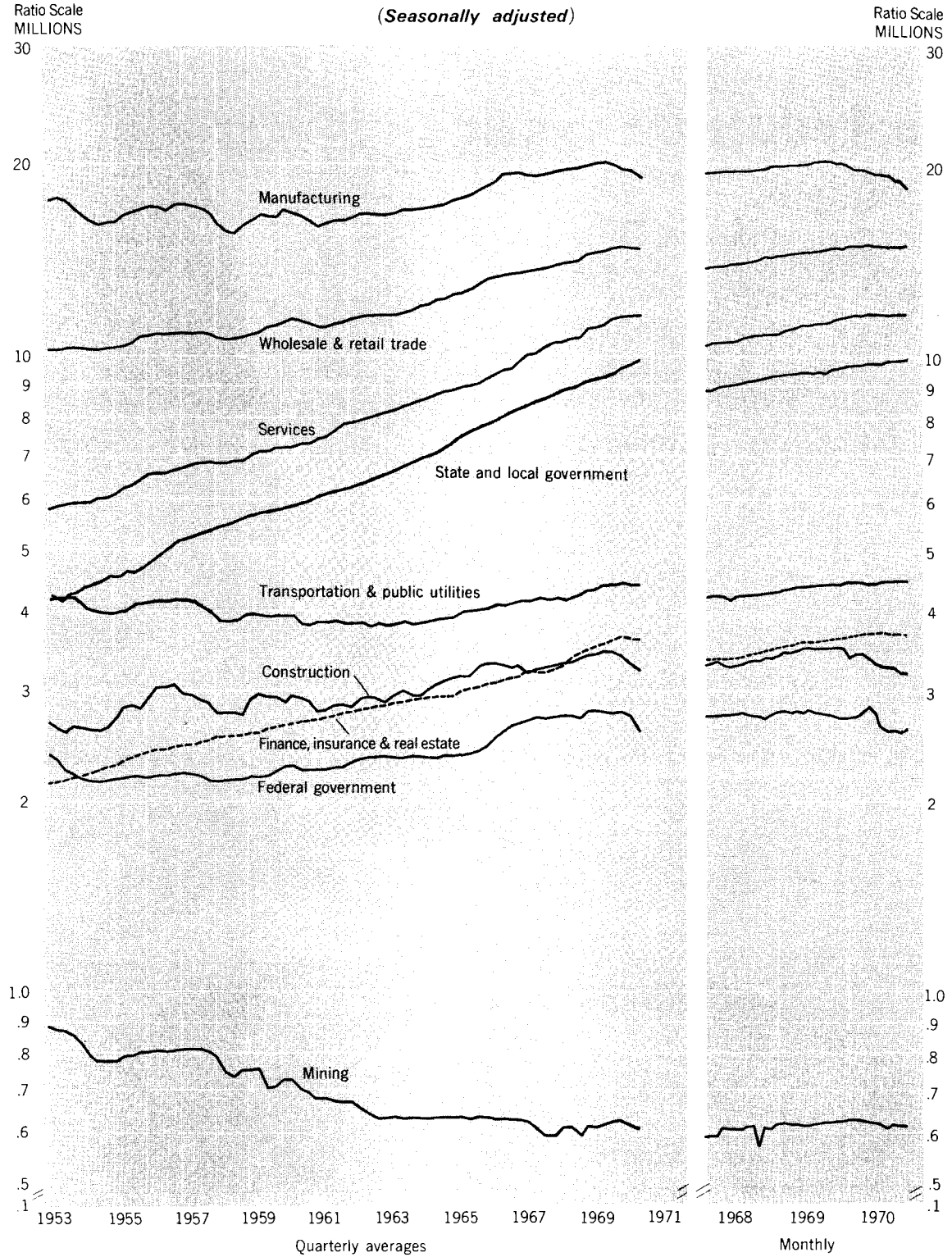
**Chart 3. Payroll employment in goods and service-producing industries  
1953 to date**

(Seasonally adjusted)



# Chart 4. Nonagricultural payroll employment by industry 1953 to date

(Seasonally adjusted)

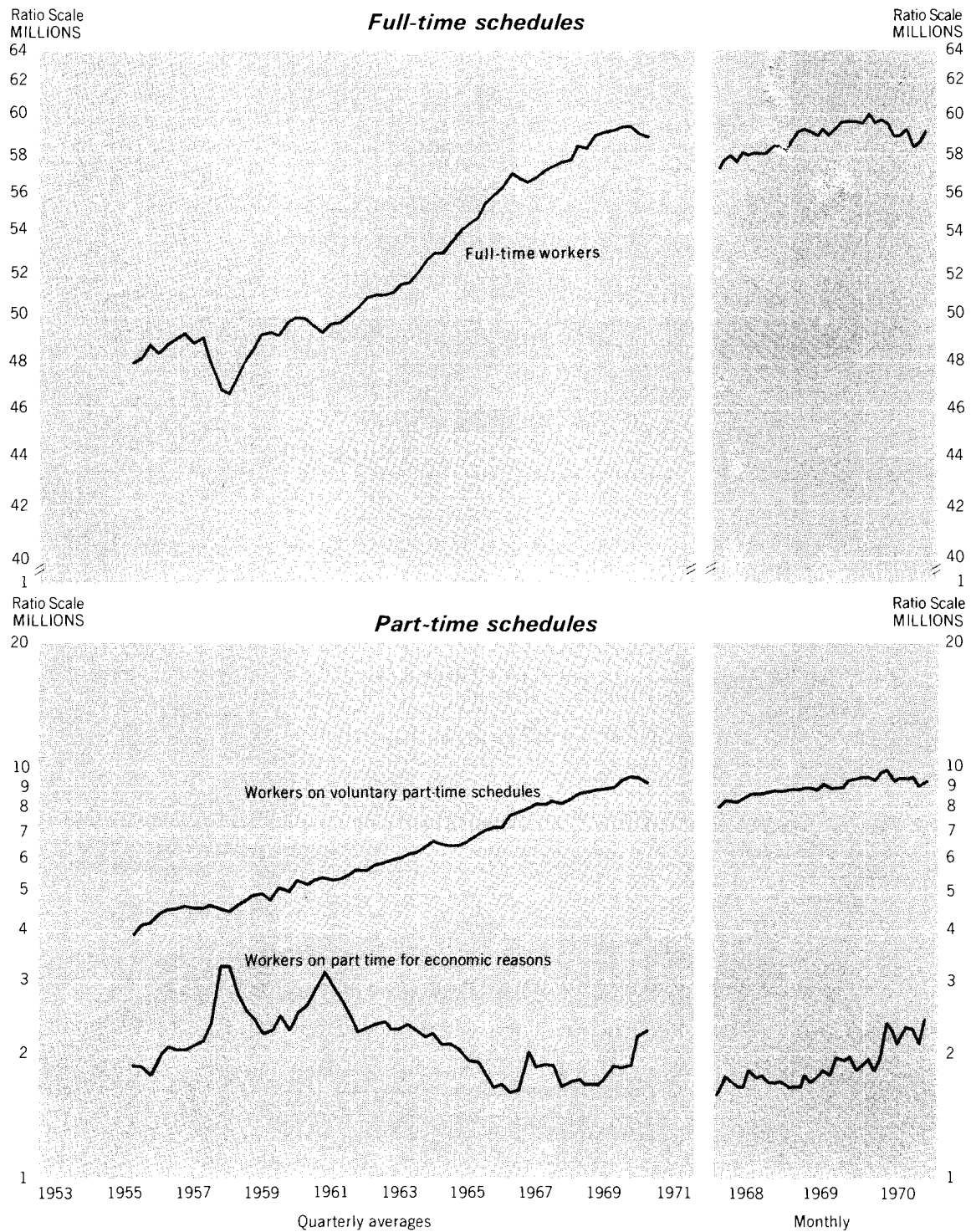


Note: Data for 2 most recent months are preliminary.

Source: Table B-5.



**Chart 5. Persons at work full and part time  
in nonagricultural industries  
1955 to date**  
(Seasonally adjusted)



Source: Table A-29 and unpublished data.

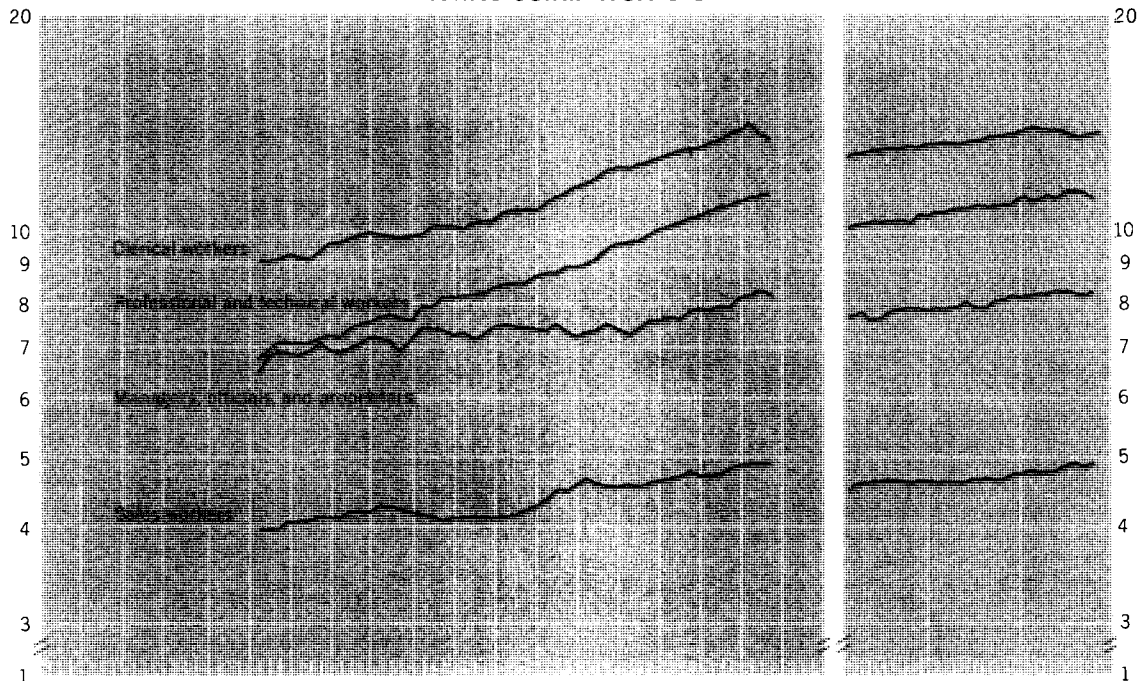
## Chart 6. Employment in nonfarm occupations 1958 to date

(Seasonally adjusted)

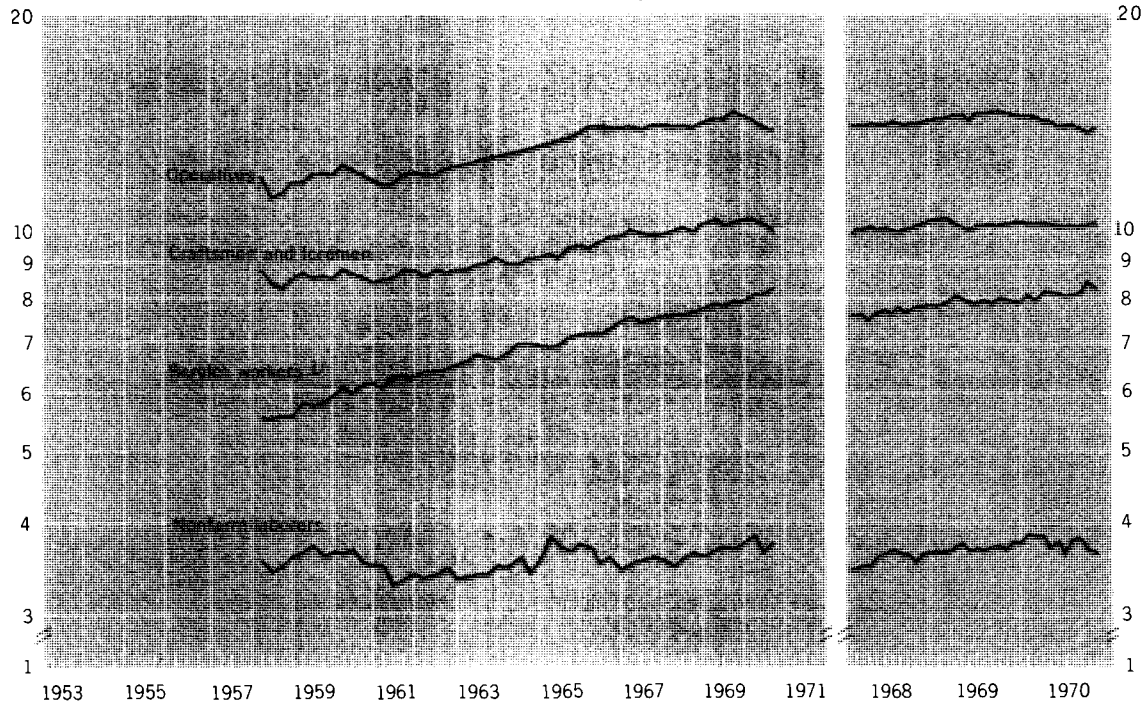
Ratio Scale  
MILLIONS

Ratio Scale  
MILLIONS

### White-collar workers



### Blue-collar and service workers



⌘ Excludes private household workers.

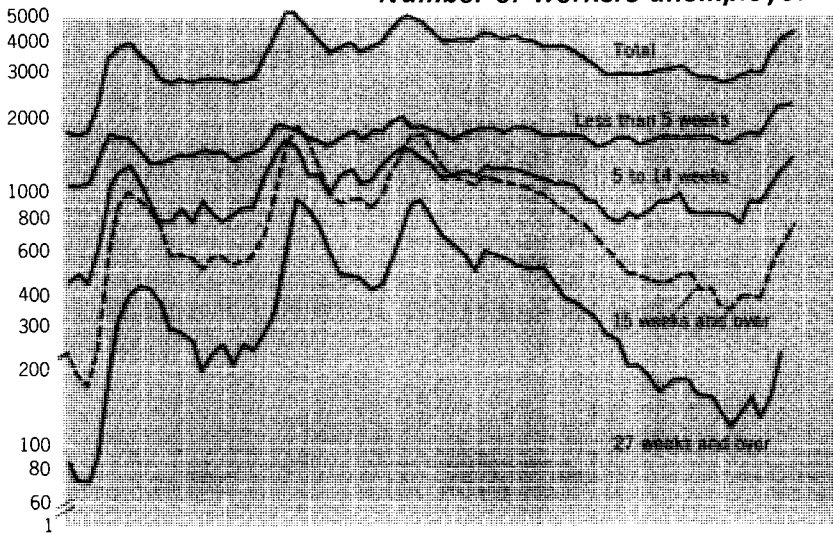
Source: Table A-37.

# Chart 7. Duration of unemployment 1953 to date

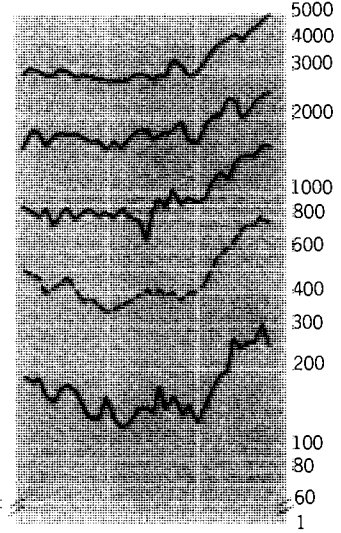
(Seasonally adjusted)

Ratio Scale  
THOUSANDS

## Number of workers unemployed

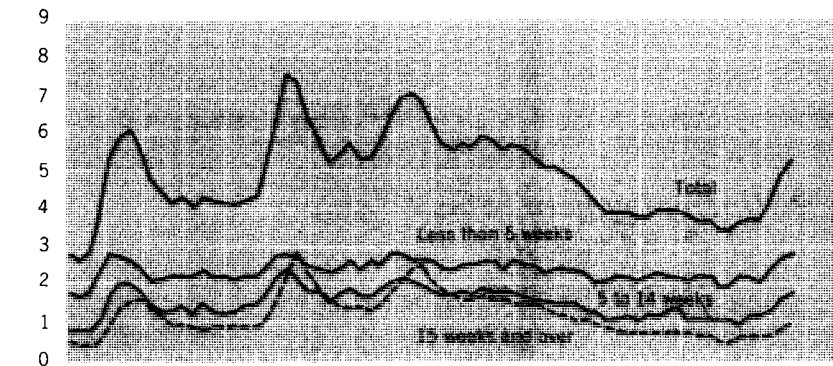


Ratio Scale  
THOUSANDS

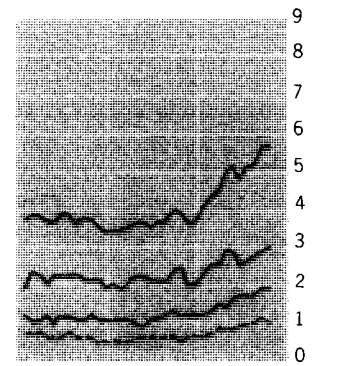


PERCENT

## Percentage of the total civilian labor force unemployed

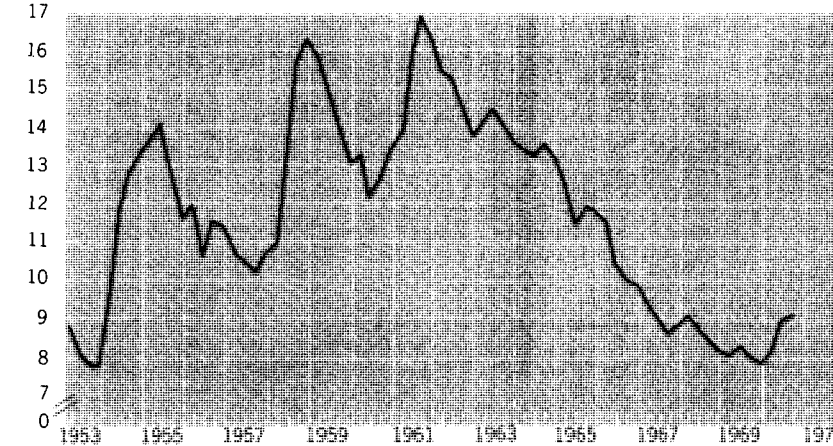


PERCENT

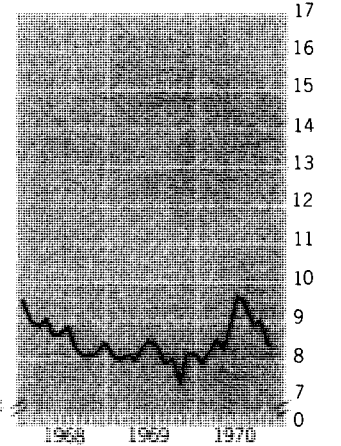


WEEKS

## Average duration of unemployment



WEEKS

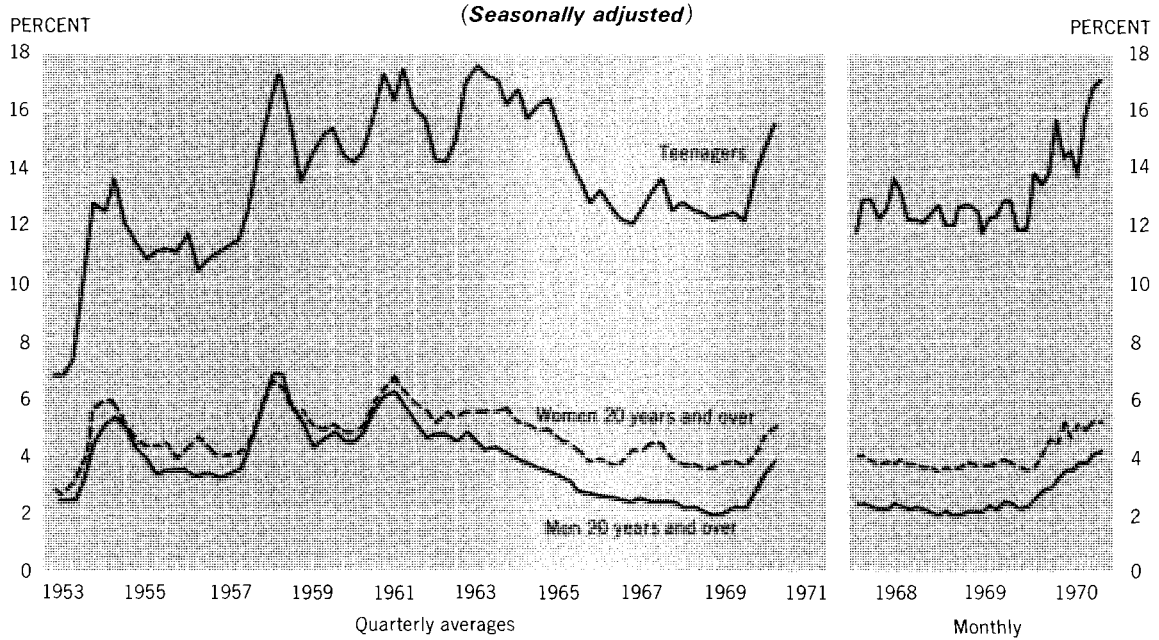


Quarterly averages

Monthly

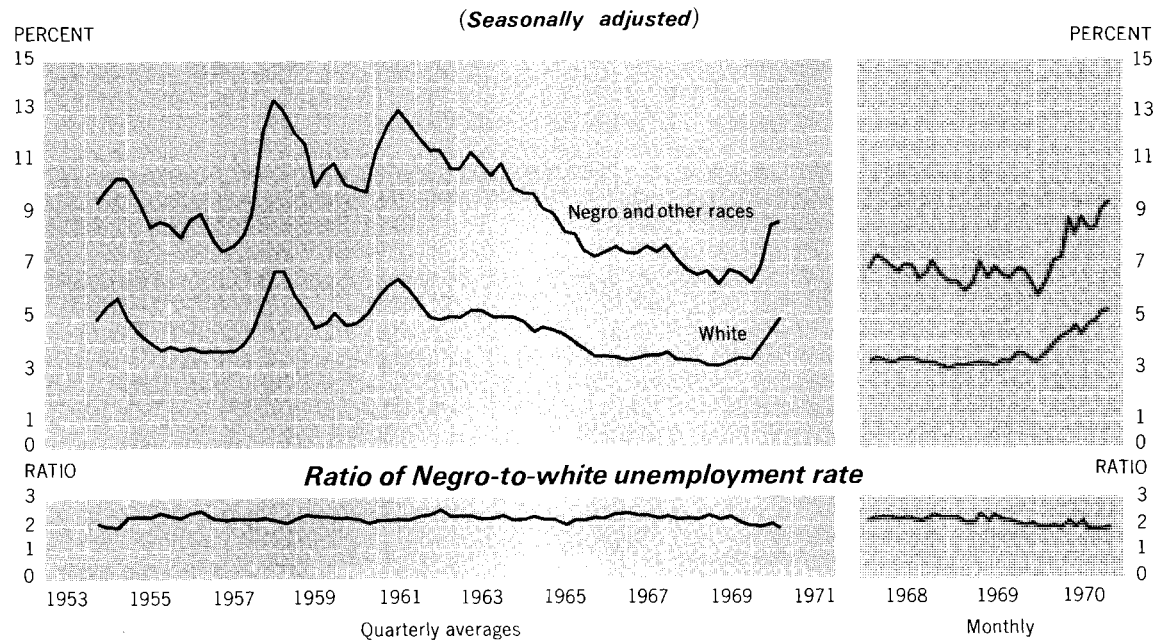
Source: Table A-32.

**Chart 8. Unemployment rates by age and sex  
1953 to date**



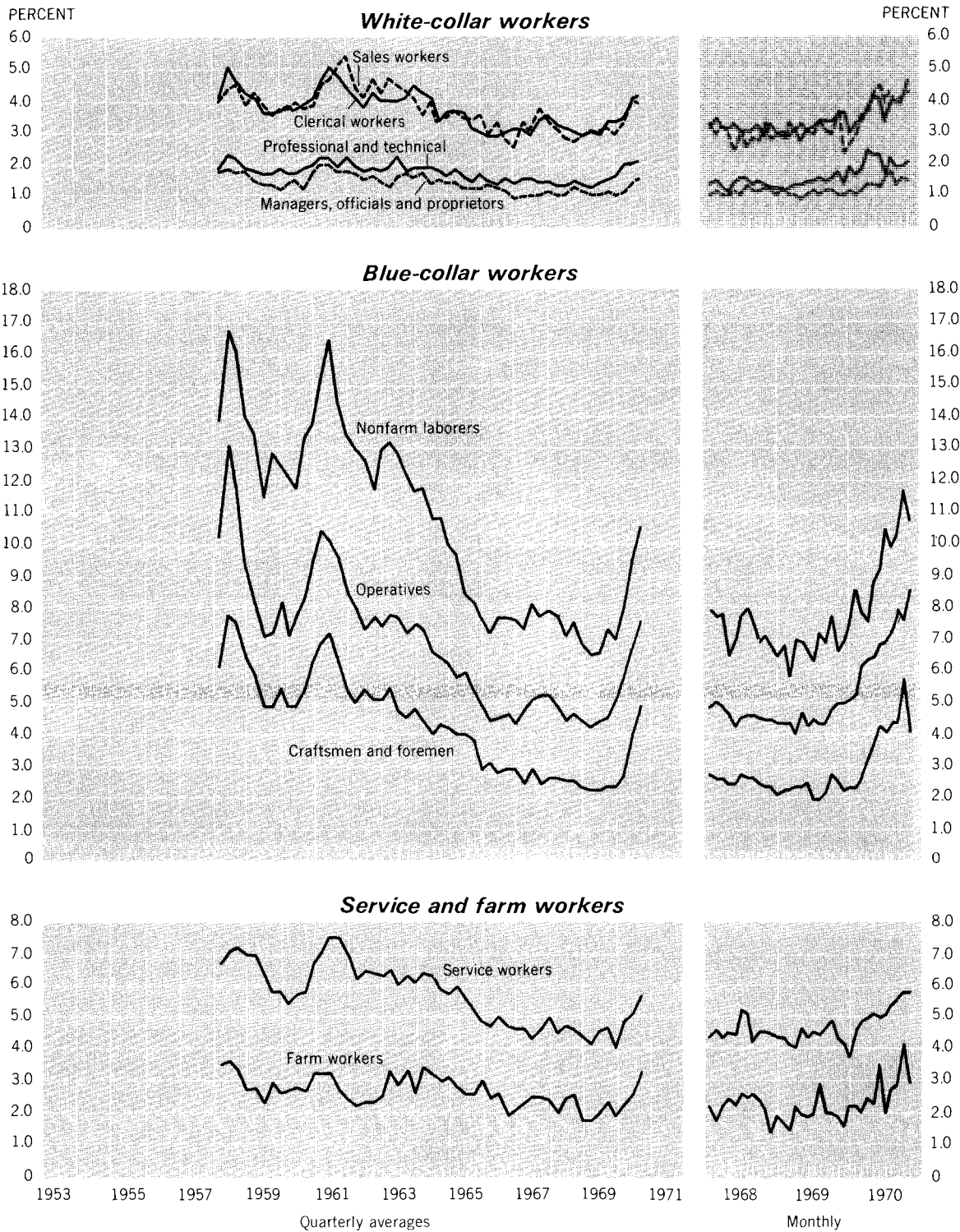
Source: Table A-33.

**Chart 9. Unemployment rates by color  
1954 to date**



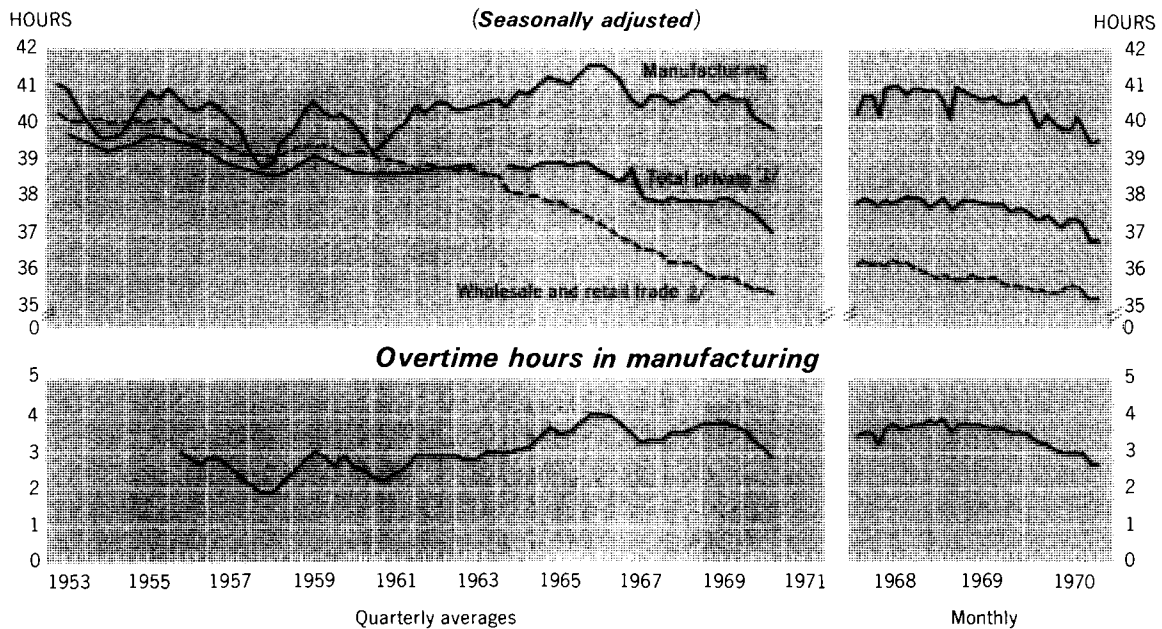
Source: Table A-31.

**Chart 10. Unemployment rates by occupation**  
**1958 to date**  
*(Seasonally adjusted)*



Source: Table A-33.

**Chart 11. Average weekly hours in private nonagricultural establishments, manufacturing, and trade  
1953 to date**



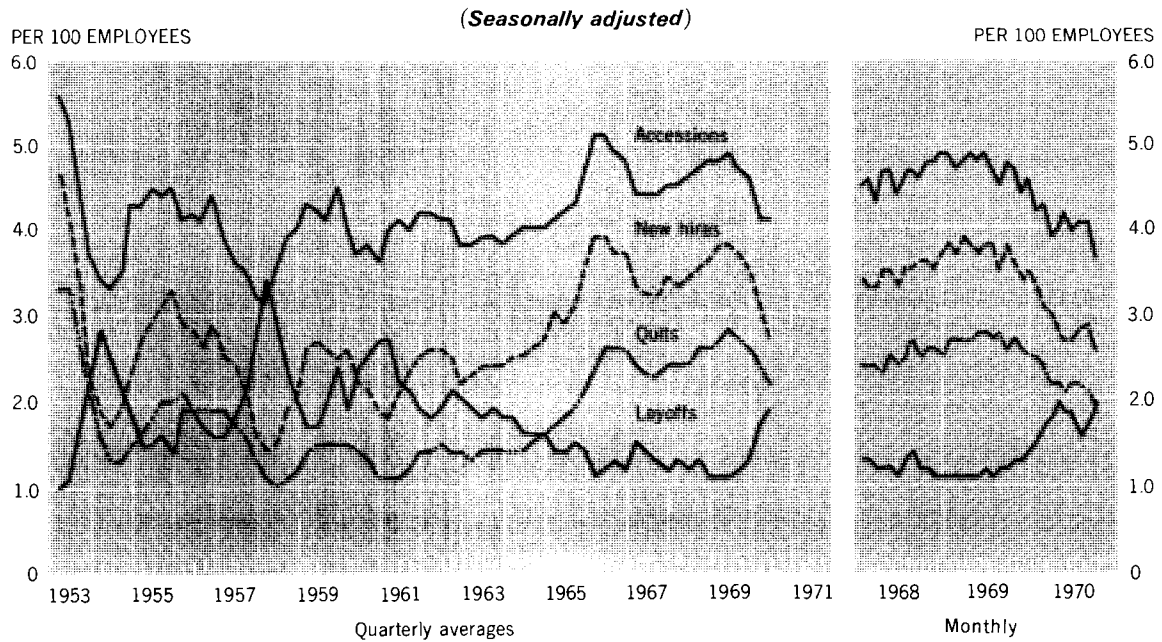
1/ Annual averages prior to 1964.

2/ Beginning in 1964, data include eating and drinking establishments, not previously available.

Note: Data for 2 most recent months are preliminary.

Source: Table C-7.

**Chart 12. Labor turnover rates in manufacturing  
1953 to date**

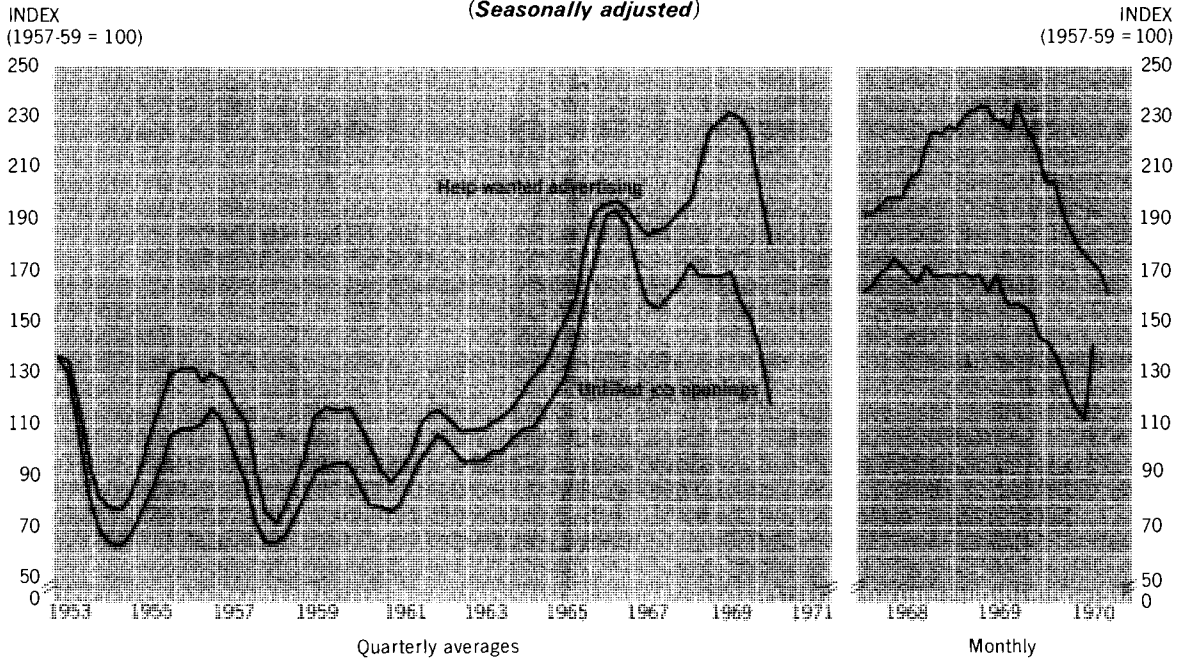


Note: Data for current month are preliminary.

Source: Table D-3.

**Chart 13. Indexes of help-wanted advertising and unfilled job openings  
1953 to date**

*(Seasonally adjusted)*



Source: U.S. Department of Labor, Manpower Administration (unfilled job openings) and National Industrial Conference Board.

# Chart 14. Major compensation trend indicators

1953 to date

(Seasonally adjusted, at annual rates)

PERCENT CHANGE

11.0

10.0

9.0

8.0

7.0

6.0

5.0

4.0

3.0

2.0

1.0

0

**Changes in average hourly compensation of all persons (including the self-employed) in the private economy**

Year-to-year changes (quarterly averages)

PERCENT CHANGE

11.0

10.0

9.0

8.0

7.0

6.0

5.0

4.0

3.0

2.0

1.0

0

(quarter-to-quarter changes)

11.0

10.0

9.0

8.0

7.0

6.0

5.0

4.0

3.0

2.0

1.0

0

**Changes in average hourly compensation of all employees in the private nonfarm economy**

Year-to-year changes (quarterly averages)

11.0

10.0

9.0

8.0

7.0

6.0

5.0

4.0

3.0

2.0

1.0

0

(quarter-to-quarter changes)

1953

1955

1957

1959

1961

1963

1965

1967

1969

1971

1968

1969

1970

11.0

10.0

9.0

8.0

7.0

6.0

5.0

4.0

3.0

2.0

1.0

0

**Changes in average hourly earnings of production and nonsupervisory employees in the private nonfarm economy**

Annual changes

Year-to-year changes (quarterly averages)

11.0

10.0

9.0

8.0

7.0

6.0

5.0

4.0

3.0

2.0

1.0

0

6-month changes (monthly data)

1953

1955

1957

1959

1961

1963

1965

1967

1969

1971

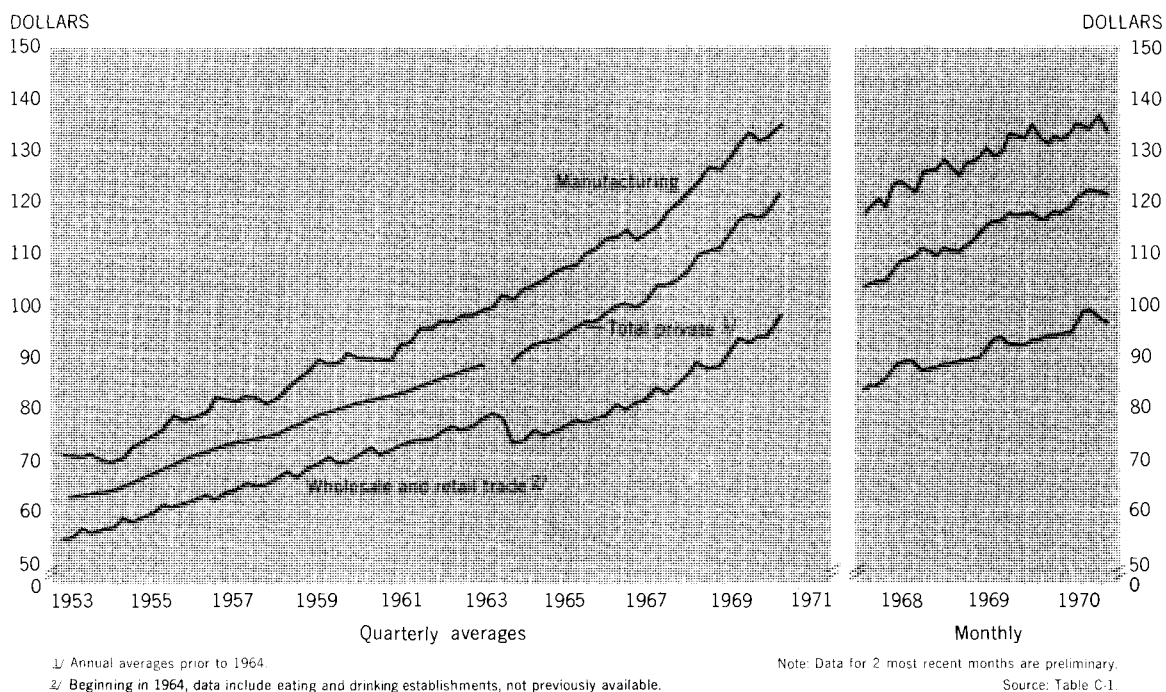
1968

1969

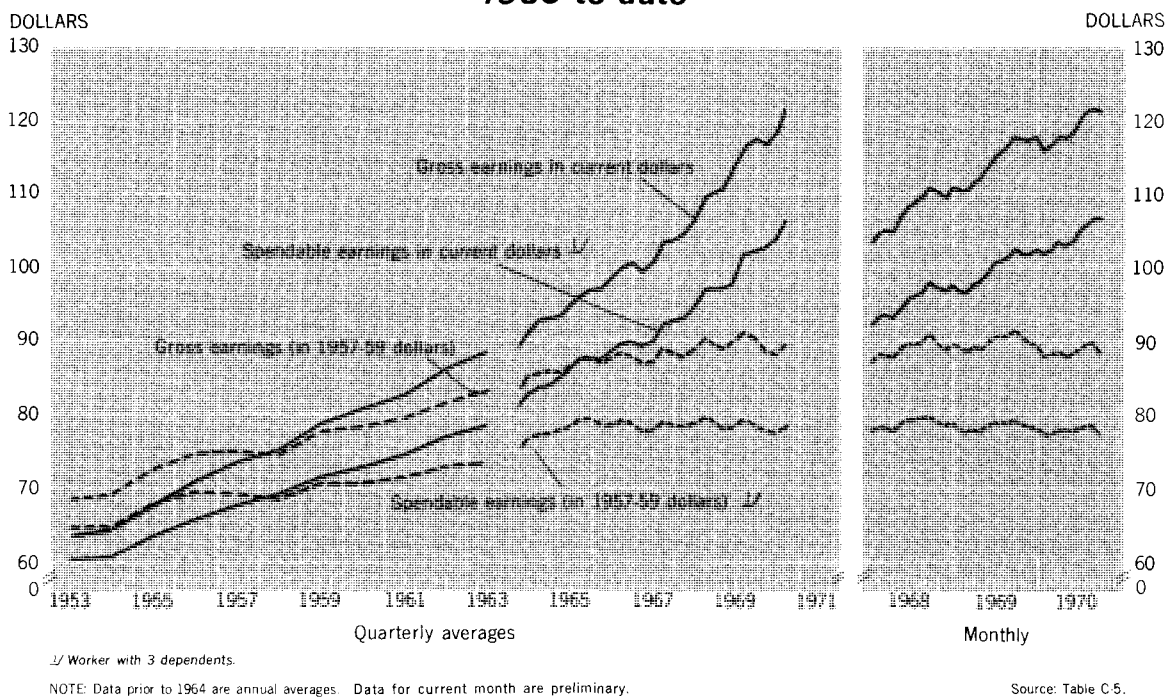
1970



**Chart 15. Average weekly earnings in private nonagricultural establishments, manufacturing, and trade 1953 to date**



**Chart 16. Average weekly and spendable earnings of production or nonsupervisory workers on private nonagricultural payrolls 1953 to date**



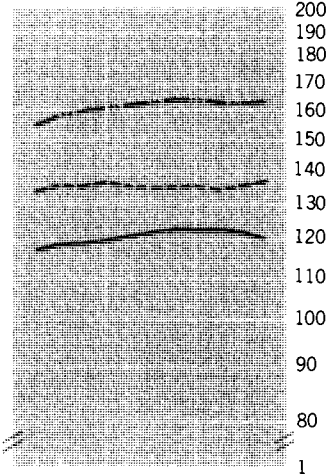
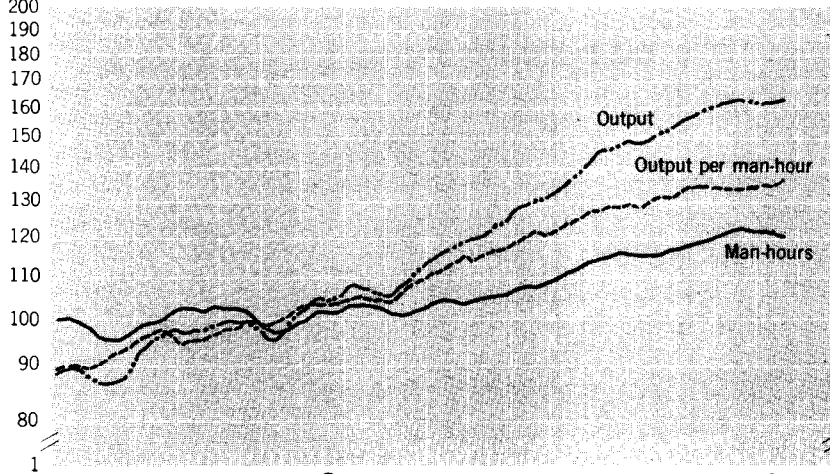
**Chart 17. Indexes of output per man-hour, hourly compensation, and unit labor costs in the private nonfarm economy  
1953 to date**

(Seasonally adjusted quarterly averages)

RATIO SCALE  
INDEX (1957-59 = 100)

**Output, man-hours, and output per man-hour**

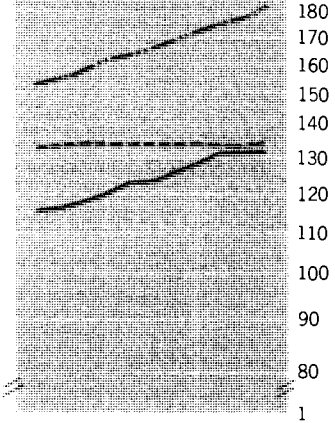
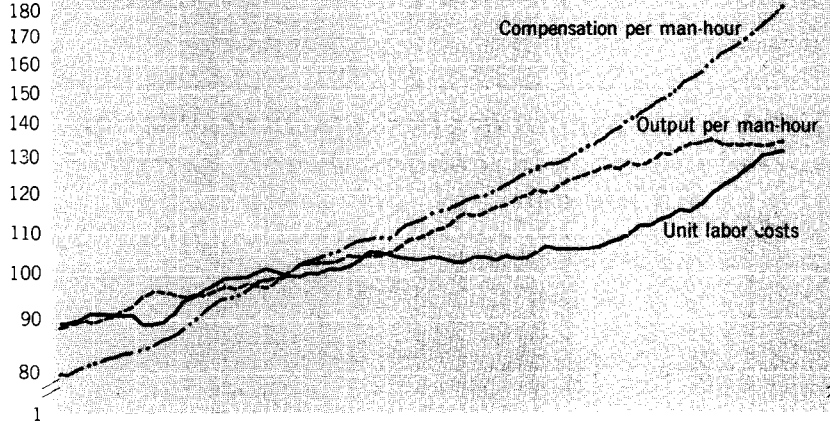
RATIO SCALE  
INDEX (1957-59 = 100)



**Output per man-hour, compensation per man-hour, and unit labor costs**

RATIO SCALE  
INDEX (1957-59 = 100)

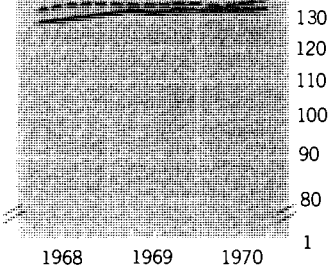
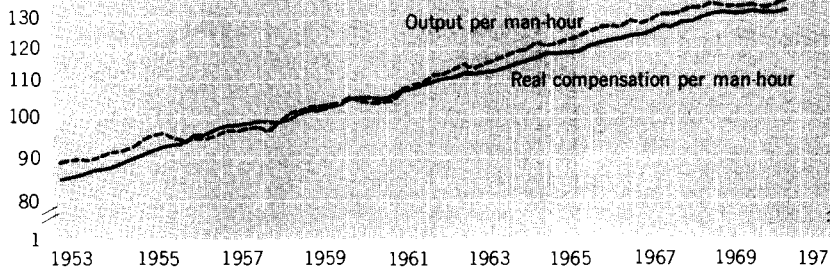
RATIO SCALE  
INDEX (1957-59 = 100)



**Output and real compensation per man-hour**

RATIO SCALE  
INDEX (1957-59 = 100)

RATIO SCALE  
INDEX (1957-59 = 100)



Source: Table C-10.

HOUSEHOLD DATA

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A-1: Employment status of the noninstitutional population, 1929 to date

(In thousands)

Year and month	Total noninstitutional population	Total labor force		Civilian labor force							Not in labor force
		Number	Percent of population	Total	Employed			Unemployed			
					Total	Agri-culture	Nonagri-cultural industries	Number	Percent of labor force		
						Not seasonally adjusted		Seasonally adjusted			
Persons 14 years of age and over											
1929.....	(1)	49,440	(1)	49,180	47,630	10,450	37,180	1,550	3.2	-	(1)
1930.....	(1)	50,080	(1)	49,820	45,480	10,340	35,140	4,340	8.7	-	(1)
1931.....	(1)	50,680	(1)	50,420	42,400	10,290	32,110	8,020	15.9	-	(1)
1932.....	(1)	51,250	(1)	51,000	38,960	10,170	28,770	12,060	23.6	-	(1)
1933.....	(1)	51,840	(1)	51,590	38,760	10,090	28,670	12,830	24.9	-	(1)
1934.....	(1)	52,490	(1)	52,230	40,890	9,900	30,990	11,340	21.7	-	(1)
1935.....	(1)	53,140	(1)	52,870	42,260	10,110	32,150	10,610	20.1	-	(1)
1936.....	(1)	53,740	(1)	53,440	44,410	10,000	34,410	9,030	16.9	-	(1)
1937.....	(1)	54,320	(1)	54,000	46,300	9,820	36,480	7,700	14.3	-	(1)
1938.....	(1)	54,950	(1)	54,610	44,220	9,690	34,530	10,390	19.0	-	(1)
1939.....	(1)	55,600	(1)	55,230	45,750	9,610	36,140	9,480	17.2	-	(1)
1940.....	100,380	56,180	56.0	55,640	47,520	9,540	37,980	8,120	14.6	-	44,200
1941.....	101,520	57,530	56.7	55,910	50,350	9,100	41,250	5,560	9.9	-	43,990
1942.....	102,610	60,380	58.8	56,410	53,750	9,250	44,500	2,660	4.7	-	42,230
1943.....	103,660	64,560	62.3	55,540	54,470	9,080	45,390	1,070	1.9	-	39,100
1944.....	104,630	66,040	63.1	54,630	53,960	8,950	45,010	670	1.2	-	38,590
1945.....	105,530	65,300	61.9	53,860	52,820	8,580	44,240	1,040	1.9	-	40,230
1946.....	106,520	60,970	57.2	57,520	55,250	8,320	46,930	2,270	3.9	-	45,550
1947.....	107,608	61,758	57.4	60,168	57,812	8,256	49,557	2,356	3.9	-	45,850
Persons 16 years of age and over											
1947.....	103,418	60,941	58.9	59,350	57,039	7,891	49,148	2,311	3.9	-	42,477
1948.....	104,527	62,080	59.4	60,621	58,344	7,629	50,713	2,276	3.8	-	42,447
1949.....	105,611	62,903	59.6	61,286	57,649	7,656	49,990	3,637	5.9	-	42,708
1950.....	106,645	63,858	59.9	62,208	58,920	7,160	51,760	3,288	5.3	-	42,787
1951.....	107,721	65,117	60.4	62,017	59,962	6,726	53,239	2,055	3.3	-	42,604
1952.....	108,823	65,730	60.4	62,138	60,254	6,501	53,753	1,883	3.0	-	43,093
1953.....	110,601	66,560	60.2	63,015	61,181	6,261	54,922	1,834	2.9	-	44,041
1954.....	111,671	66,993	60.0	63,643	60,110	6,206	53,903	3,532	5.5	-	44,678
1955.....	112,732	68,072	60.4	65,023	62,171	6,449	54,724	2,852	4.4	-	44,660
1956.....	113,811	69,409	61.0	66,552	63,802	6,283	57,517	2,750	4.1	-	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	-	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	-	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	-	46,960
1960.....	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	-	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	-	48,312
1962.....	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	84,239	61.1	80,733	77,902	3,606	74,296	2,831	3.5	-	53,602
1969: October.....	138,539	85,038	61.4	81,510	78,671	3,561	75,110	2,839	3.5	3.8	53,501
1970: January.....	139,099	84,105	60.5	80,719	77,313	2,915	74,398	3,406	4.2	3.9	54,993
February.....	139,398	84,625	60.8	81,283	77,489	2,994	74,495	3,794	4.7	4.2	54,673
March.....	139,497	85,008	60.9	81,690	77,957	3,171	74,786	3,733	4.6	4.4	54,489
April.....	139,687	85,231	61.0	81,960	78,408	3,531	74,877	3,552	4.3	4.8	54,456
May.....	139,884	84,968	60.7	81,741	78,357	3,725	74,632	3,384	4.1	5.0	54,915
June.....	140,046	87,230	62.3	84,050	79,382	4,208	75,174	4,669	5.6	4.7	52,816
July.....	140,259	87,955	62.7	84,801	80,291	4,118	76,173	4,510	5.3	5.0	52,304
August.....	140,468	87,248	62.1	84,115	79,894	3,782	76,112	4,220	5.0	5.1	53,220
September.....	140,675	85,656	60.9	82,547	78,256	3,525	74,730	4,292	5.2	5.5	55,019
October.....	140,886	86,255	61.2	83,175	78,916	3,394	75,522	4,259	5.1	5.6	54,631

<sup>1</sup>Not available.

HOUSEHOLD DATA

A- 2: Employment status of the noninstitutional population 16 years and over by sex, 1947 to date

(In thousands)

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force							Not in labor force
		Number	Percent of population	Total	Employed			Unemployed			
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force		
									Not seasonally adjusted	Seasonally adjusted	
<b>MALE</b>											
1947.....	50,968	44,258	86.8	42,686	40,994	6,643	34,351	1,692	4.0	-	6,710
1948.....	51,439	44,729	87.0	43,286	41,726	6,358	35,368	1,559	3.6	-	6,710
1949.....	51,922	45,097	86.9	43,498	40,926	6,342	34,584	2,572	5.9	-	6,825
1950.....	52,352	45,446	86.8	43,819	41,580	6,001	35,578	2,239	5.1	-	6,906
1951.....	52,788	46,063	87.3	43,001	41,780	5,533	36,248	1,221	2.8	-	6,725
1952.....	53,248	46,416	87.2	42,869	41,684	5,389	36,294	1,185	2.8	-	6,832
1953.....	54,248	47,131	86.9	43,633	42,431	5,253	37,178	1,202	2.8	-	7,117
1954.....	54,706	47,275	86.4	43,965	41,620	5,200	36,418	2,344	5.3	-	7,431
1955.....	55,122	47,488	86.2	44,475	42,621	5,265	37,357	1,854	4.2	-	7,634
1956.....	55,547	47,914	86.3	45,091	43,380	5,039	38,340	1,711	3.8	-	7,633
1957.....	56,082	47,964	85.5	45,197	43,357	4,824	38,532	1,841	4.1	-	8,118
1958.....	56,640	48,126	85.0	45,521	42,423	4,596	37,827	3,098	6.8	-	8,514
1959.....	57,312	48,405	84.5	45,886	43,466	4,532	38,934	2,420	5.3	-	8,907
1960.....	58,144	48,870	84.0	46,388	43,904	4,472	39,431	2,486	5.4	-	9,274
1961.....	58,826	49,193	83.6	46,653	43,656	4,298	39,359	2,997	6.4	-	9,633
1962.....	59,626	49,395	82.8	46,600	44,177	4,069	40,108	2,423	5.2	-	10,231
1963.....	60,627	49,835	82.2	47,129	44,657	3,809	40,849	2,472	5.2	-	10,792
1964.....	61,556	50,387	81.9	47,679	45,474	3,691	41,782	2,205	4.6	-	11,169
1965.....	62,473	50,946	81.5	48,255	46,340	3,547	42,792	1,914	4.0	-	11,527
1966.....	63,351	51,560	81.4	48,471	46,919	3,243	43,675	1,551	3.2	-	11,792
1967.....	64,316	52,398	81.5	48,987	47,479	3,164	44,315	1,508	3.1	-	11,919
1968.....	65,345	53,030	81.2	49,533	48,114	3,157	44,957	1,419	2.9	-	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,854	1,403	2.8	-	12,677
1969: October.....	66,671	53,654	80.5	50,166	48,857	2,891	45,966	1,309	2.6	3.1	13,017
1970: April.....	67,183	53,899	80.2	50,667	48,686	2,979	45,708	1,981	3.9	4.2	13,284
May.....	67,271	53,995	80.3	50,807	48,964	3,056	45,908	1,843	3.6	4.4	13,276
June.....	67,341	55,657	82.7	52,518	49,986	3,340	46,646	2,531	4.8	4.3	11,684
July.....	67,439	56,144	83.3	53,030	50,555	3,290	47,265	2,475	4.7	4.5	11,295
August.....	67,538	55,633	82.4	52,540	50,333	3,090	47,243	2,207	4.2	4.6	11,905
September.....	67,633	54,133	80.0	51,065	48,923	2,904	46,019	2,142	4.2	5.0	13,500
October.....	67,730	54,054	79.8	51,015	48,777	2,771	46,006	2,238	4.4	5.1	13,676
<b>FEMALE</b>											
1947.....	52,450	16,683	31.8	16,664	16,045	1,248	14,797	619	3.7	-	35,767
1948.....	53,088	17,351	32.7	17,335	16,618	1,271	15,347	717	4.1	-	35,737
1949.....	53,689	17,806	33.2	17,788	16,723	1,314	15,409	1,065	6.0	-	35,883
1950.....	54,293	18,412	33.9	18,389	17,340	1,159	16,182	1,049	5.7	-	35,881
1951.....	54,933	19,054	34.7	19,016	18,182	1,193	16,990	834	4.4	-	35,879
1952.....	55,575	19,314	34.8	19,269	18,570	1,112	17,459	698	3.6	-	36,261
1953.....	56,353	19,429	34.5	19,382	18,750	1,008	17,744	632	3.3	-	36,924
1954.....	56,965	19,718	34.6	19,678	18,490	1,006	17,486	1,188	6.0	-	37,247
1955.....	57,610	20,584	35.7	20,548	19,550	1,184	18,367	998	4.9	-	37,026
1956.....	58,264	21,495	36.9	21,461	20,422	1,244	19,177	1,039	4.8	-	36,769
1957.....	58,983	21,765	36.9	21,732	20,714	1,123	19,591	1,018	4.7	-	37,218
1958.....	59,723	22,149	37.1	22,118	20,613	990	19,623	1,504	6.8	-	37,574
1959.....	60,569	22,516	37.2	22,483	21,164	1,033	20,131	1,320	5.9	-	38,053
1960.....	61,615	23,272	37.8	23,240	21,874	986	20,887	1,366	5.9	-	38,343
1961.....	62,517	23,838	38.1	23,806	22,090	902	21,187	1,717	7.2	-	38,679
1962.....	63,355	24,047	38.0	24,014	22,525	875	21,651	1,488	6.2	-	39,308
1963.....	64,527	24,736	38.3	24,704	23,105	878	22,227	1,598	6.5	-	39,791
1964.....	65,668	25,443	38.7	25,412	23,831	832	23,000	1,581	6.2	-	40,225
1965.....	66,763	26,232	39.3	26,200	24,748	814	23,934	1,452	5.5	-	40,531
1966.....	67,829	27,333	40.3	27,299	25,976	736	25,240	1,324	4.8	-	40,496
1967.....	69,003	28,395	41.2	28,360	26,893	680	26,212	1,468	5.2	-	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	-	40,976
1969.....	71,476	30,551	42.7	30,512	29,084	643	28,441	1,428	4.7	-	40,924
1969: October.....	71,868	31,384	43.7	31,345	29,814	670	29,144	1,530	4.9	4.9	40,484
1970: April.....	72,504	31,332	43.2	31,293	29,722	553	29,169	1,571	5.0	5.7	41,172
May.....	72,613	30,974	42.7	30,934	29,393	669	28,724	1,541	5.0	5.9	41,639
June.....	72,705	31,572	43.4	31,533	29,295	867	28,528	2,137	6.8	5.5	41,133
July.....	72,820	31,810	43.7	31,771	29,736	828	28,908	2,035	6.4	5.9	41,009
August.....	72,930	31,615	43.3	31,575	29,562	693	28,869	2,013	6.4	5.9	41,315
September.....	73,043	31,523	43.2	31,483	29,333	621	28,712	2,150	6.8	6.4	41,519
October.....	73,156	32,201	44.0	32,162	30,139	623	29,516	2,021	6.3	6.3	40,955

**A - 3: Employment status of the noninstitutional population by sex, age, and color**  
 October 1970  
 (In thousands)

Sex, age, and color	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>MALE</b>											
16 years and over .....	54,054	79.8	51,015	48,777	2,238	4.4	13,676	231	4,583	1,553	7,309
16 to 21 years .....	6,844	61.6	5,605	4,758	846	15.1	4,272	22	3,942	37	271
16 to 19 years .....	4,074	53.7	3,706	3,104	602	16.3	3,519	19	3,287	20	193
16 and 17 years .....	1,662	42.5	1,631	1,331	300	18.4	2,244	6	2,163	6	69
18 and 19 years .....	2,412	65.4	2,075	1,772	302	14.6	1,275	12	1,124	15	124
20 to 64 years .....	47,797	91.9	45,126	43,561	1,566	3.5	4,217	75	1,292	974	1,875
20 to 24 years .....	7,360	85.3	5,763	5,228	536	9.3	1,272	5	1,032	39	197
25 to 54 years .....	33,330	95.9	32,259	31,406	852	2.6	1,430	39	253	491	647
25 to 29 years .....	6,541	95.4	6,156	5,934	222	3.6	312	5	171	39	98
30 to 34 years .....	5,505	97.7	5,243	5,093	150	2.9	130	6	33	42	49
35 to 39 years .....	5,240	97.3	4,992	4,893	99	2.0	146	2	24	53	68
40 to 44 years .....	5,554	96.8	5,445	5,305	140	2.6	184	5	9	73	98
45 to 49 years .....	5,579	95.3	5,533	5,406	127	2.3	273	8	13	116	136
50 to 54 years .....	4,910	92.7	4,890	4,774	115	2.4	384	13	5	168	198
55 to 64 years .....	7,107	82.4	7,104	6,927	177	2.5	1,515	32	7	444	1,032
55 to 59 years .....	4,236	89.5	4,233	4,122	111	2.6	496	8	5	220	262
60 to 64 years .....	2,871	73.8	2,871	2,805	66	2.3	1,019	23	2	223	769
65 years and over .....	2,183	26.9	2,183	2,112	70	3.2	5,940	137	3	559	5,241
65 to 69 years .....	1,239	40.1	1,239	1,189	50	4.0	1,848	41	--	174	1,633
70 years and over .....	944	18.7	944	923	21	2.2	4,092	96	3	385	3,609
<b>White</b>											
16 years and over .....	48,574	80.2	45,868	44,013	1,855	4.0	11,999	197	3,929	1,285	6,588
16 to 21 years .....	6,045	62.7	4,944	4,266	677	13.7	3,602	15	3,371	28	188
16 to 19 years .....	3,630	55.2	3,301	2,813	488	14.8	2,951	14	2,795	14	129
16 and 17 years .....	1,506	44.6	1,478	1,229	249	16.9	1,872	6	1,818	4	44
18 and 19 years .....	2,124	66.3	1,823	1,585	238	13.1	1,079	8	977	9	84
20 to 64 years .....	42,930	92.2	40,553	39,249	1,303	3.2	3,627	57	1,133	806	1,632
20 to 24 years .....	6,474	85.4	5,043	4,611	432	8.6	1,109	1	922	29	157
25 to 54 years .....	29,978	96.3	29,036	28,320	716	2.5	1,146	29	208	385	524
25 to 34 years .....	10,738	96.8	10,170	9,869	301	3.0	351	9	169	55	118
35 to 44 years .....	9,696	97.4	9,384	9,178	206	2.2	255	5	23	102	126
45 to 54 years .....	9,544	94.7	9,482	9,273	209	2.2	539	16	16	228	280
55 to 64 years .....	6,478	82.5	6,474	6,318	156	2.4	1,372	26	3	391	951
55 to 59 years .....	3,864	89.9	3,861	3,766	95	2.5	434	6	1	198	229
60 to 64 years .....	2,614	73.6	2,613	2,553	61	2.3	938	20	2	194	722
65 years and over .....	2,014	27.1	2,014	1,950	64	3.2	5,421	126	1	466	4,827
<b>Negro and other races</b>											
16 years and over .....	5,480	76.6	5,147	4,764	383	7.4	1,677	35	654	268	721
16 to 21 years .....	799	54.4	661	492	169	25.6	670	7	572	9	82
16 to 19 years .....	444	43.9	405	290	115	28.3	568	5	492	7	64
16 and 17 years .....	156	29.5	153	103	51	33.1	372	1	345	1	25
18 and 19 years .....	288	59.5	252	188	64	25.4	196	4	147	5	40
20 to 64 years .....	4,867	89.2	4,573	4,312	261	5.7	589	19	160	168	243
20 to 24 years .....	886	84.4	721	617	104	14.4	163	3	111	10	39
25 to 54 years .....	3,352	92.2	3,223	3,087	137	4.3	285	10	46	106	123
25 to 34 years .....	1,308	93.4	1,229	1,158	71	5.8	92	2	35	26	29
35 to 44 years .....	1,098	93.6	1,053	1,020	33	3.1	75	2	9	24	40
45 to 54 years .....	946	88.9	941	908	33	3.5	118	6	2	57	54
55 to 64 years .....	630	81.6	629	608	21	3.3	142	6	4	52	80
55 to 59 years .....	372	85.8	372	356	15	4.1	61	2	4	22	33
60 to 64 years .....	258	76.1	258	252	6	2.2	81	3	--	30	47
65 years and over .....	169	24.5	169	162	7	4.0	520	11	1	93	414

A-3: Employment status of the noninstitutional population by sex, age, and color--Continued  
October 1970  
(In thousands)

Sex, age, and color	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>FEMALE</b>											
16 years and over .....	32,201	44.0	32,161	30,139	2,021	6.3	40,955	34,561	4,075	816	1,504
16 to 21 years .....	5,273	48.3	5,253	4,552	701	13.4	5,648	1,711	3,714	17	207
16 to 19 years .....	3,230	43.4	3,221	2,691	530	16.5	4,212	790	3,256	11	155
16 and 17 years .....	1,313	34.3	1,313	1,081	232	17.7	2,511	201	2,242	4	63
18 and 19 years .....	1,917	53.0	1,908	1,610	298	15.6	1,701	589	1,014	7	91
20 to 64 years .....	27,916	51.0	27,885	26,420	1,465	5.3	26,815	25,036	806	270	704
20 to 24 years .....	5,033	58.7	5,014	4,624	390	7.8	3,544	2,788	624	22	109
25 to 54 years .....	18,648	51.2	18,636	17,690	946	5.1	17,805	17,121	180	123	381
25 to 29 years .....	3,159	45.4	3,154	2,955	200	6.3	3,794	3,651	75	15	53
30 to 34 years .....	2,672	45.9	2,670	2,502	168	6.3	3,145	3,054	28	8	55
35 to 39 years .....	2,855	51.1	2,854	2,666	187	6.6	2,737	2,628	34	10	66
40 to 44 years .....	3,241	53.6	3,239	3,090	149	4.6	2,809	2,682	20	29	78
45 to 49 years .....	3,522	56.0	3,521	3,393	128	3.6	2,767	2,673	16	20	58
50 to 54 years .....	3,198	55.6	3,197	3,084	114	3.6	2,554	2,434	7	41	72
55 to 64 years .....	4,235	43.7	4,235	4,105	130	3.1	5,466	5,126	2	124	213
55 to 59 years .....	2,575	49.3	2,575	2,497	78	3.0	2,649	2,490	2	57	101
60 to 64 years .....	1,660	37.1	1,660	1,608	52	3.1	2,817	2,636	--	68	113
65 years and over .....	1,055	9.6	1,055	1,029	26	2.4	9,928	8,735	12	536	645
65 to 69 years .....	647	17.3	647	627	20	3.0	3,092	2,878	5	73	136
70 years and over .....	408	5.6	408	402	6	1.5	6,837	5,857	7	463	509
<b>White</b>											
16 years and over .....	28,170	43.4	28,135	26,484	1,651	5.9	36,796	31,413	3,419	648	1,316
16 to 21 years .....	4,681	49.8	4,664	4,120	544	11.7	4,720	1,433	3,118	12	156
16 to 19 years .....	2,890	45.2	2,882	2,470	412	14.3	3,510	653	2,730	6	120
16 and 17 years .....	1,195	36.4	1,195	1,002	194	16.2	2,088	162	1,874	2	51
18 and 19 years .....	1,695	54.4	1,687	1,469	218	12.9	1,422	492	857	5	69
20 to 64 years .....	24,330	50.2	24,302	23,086	1,215	5.0	24,117	22,634	680	201	602
20 to 24 years .....	4,388	58.8	4,371	4,073	299	6.8	3,076	2,448	530	16	82
25 to 54 years .....	16,141	50.2	16,130	15,324	805	5.0	16,038	15,477	147	92	322
25 to 34 years .....	4,943	44.2	4,937	4,637	300	6.1	6,234	6,038	83	14	98
35 to 44 years .....	5,238	51.3	5,235	4,947	287	5.5	4,976	4,783	49	32	111
45 to 54 years .....	5,959	55.2	5,957	5,740	218	3.7	4,827	4,655	15	45	113
55 to 64 years .....	3,801	43.2	3,801	3,690	111	2.9	5,004	4,709	2	94	198
55 to 59 years .....	2,298	48.7	2,298	2,232	67	2.9	2,421	2,282	2	44	93
60 to 64 years .....	1,503	36.8	1,503	1,458	45	3.0	2,583	2,427	--	50	106
65 years and over .....	951	9.4	951	927	24	2.6	9,169	8,126	9	440	594
<b>Negro and other races</b>											
16 years and over .....	4,030	49.2	4,026	3,656	370	9.2	4,159	3,147	655	169	188
16 to 21 years .....	592	38.9	589	432	157	26.6	929	277	595	5	51
16 to 19 years .....	340	32.6	339	220	119	35.0	702	137	526	4	35
16 and 17 years .....	118	21.8	118	79	39	32.7	423	40	368	2	12
18 and 19 years .....	223	44.4	221	141	80	36.2	279	97	158	2	22
20 to 64 years .....	3,586	57.1	3,583	3,334	250	7.0	2,697	2,402	126	68	101
20 to 24 years .....	645	57.9	643	552	91	14.2	468	341	94	7	27
25 to 54 years .....	2,507	58.7	2,506	2,366	140	5.6	1,767	1,644	32	32	59
25 to 34 years .....	888	55.7	887	820	67	7.6	705	667	20	8	10
35 to 44 years .....	858	60.1	858	809	49	5.7	570	526	5	7	32
45 to 54 years .....	761	60.7	761	737	24	3.1	493	452	8	17	17
55 to 64 years .....	434	48.5	434	415	19	4.3	462	417	--	30	15
55 to 59 years .....	277	54.9	277	265	12	4.3	228	208	--	12	8
60 to 64 years .....	157	40.2	157	150	7	4.5	234	209	--	18	7
65 years and over .....	104	12.0	104	102	1	1.4	760	609	3	96	52



A - 4: Labor force by sex, age, and color

Sex, age, and color	Total labor force				Civilian labor force			
	Thousands of persons		Participation rate		Thousands of persons		Participation rate	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
<b>MALE</b>								
16 years and over .....	54,054	53,654	79.8	80.5	51,015	50,166	78.9	79.4
16 to 19 years .....	4,074	4,056	53.7	54.9	3,706	3,610	51.3	52.0
16 and 17 years .....	1,662	1,691	42.5	44.5	1,631	1,655	42.1	43.9
18 and 19 years .....	2,412	2,365	65.4	60.0	2,075	1,955	61.9	61.6
20 to 24 years .....	7,360	7,058	85.3	85.4	5,763	5,267	81.9	81.3
25 to 54 years .....	33,330	33,176	95.9	96.2	32,259	31,927	95.8	96.1
25 to 34 years .....	12,047	11,787	96.5	96.9	11,399	11,007	96.3	96.7
35 to 44 years .....	10,794	10,926	97.0	97.2	10,437	10,539	96.9	97.1
45 to 54 years .....	10,489	10,463	94.1	94.6	10,423	10,380	94.1	94.5
55 to 64 years .....	7,107	7,152	82.4	84.0	7,104	7,148	82.4	84.0
55 to 59 years .....	4,236	4,230	89.5	90.4	4,233	4,227	89.5	90.4
60 to 64 years .....	2,871	2,921	73.8	76.1	2,871	2,921	73.8	76.1
65 years and over .....	2,183	2,213	26.9	27.6	2,183	2,213	26.9	27.6
<b>White</b>								
16 years and over .....	48,574	48,185	80.2	80.7	45,868	45,075	79.3	79.7
16 to 19 years .....	3,630	3,565	55.2	55.7	3,301	3,171	52.8	52.7
16 and 17 years .....	1,506	1,513	44.6	45.9	1,478	1,482	44.1	45.4
18 and 19 years .....	2,124	2,052	66.3	66.0	1,823	1,688	62.8	61.5
20 to 24 years .....	6,474	6,196	85.4	85.1	5,043	4,588	82.0	80.9
25 to 54 years .....	29,978	29,844	96.3	96.6	29,036	28,741	96.2	96.4
25 to 34 years .....	10,738	10,501	96.8	97.1	10,170	9,819	96.7	96.9
35 to 44 years .....	9,696	9,833	97.4	97.6	9,384	9,490	97.4	97.5
45 to 54 years .....	9,544	9,511	94.7	95.0	9,482	9,432	94.6	94.9
55 to 64 years .....	6,478	6,544	82.5	84.4	6,474	6,540	82.5	84.4
55 to 59 years .....	3,864	3,868	89.9	91.0	3,861	3,865	89.9	91.0
60 to 64 years .....	2,614	2,676	73.6	76.4	2,613	2,676	73.6	76.4
65 years and over .....	2,014	2,035	27.1	27.7	2,014	2,035	27.1	27.7
<b>Negro and other races</b>								
16 years and over .....	5,480	5,469	76.6	78.5	5,147	5,090	75.4	77.2
16 to 19 years .....	444	490	43.9	50.2	405	439	41.6	47.4
16 and 17 years .....	156	178	29.5	35.2	153	172	29.2	34.5
18 and 19 years .....	288	313	59.5	66.1	252	267	56.2	62.5
20 to 24 years .....	886	861	84.4	87.6	721	679	81.5	84.7
25 to 54 years .....	3,352	3,331	92.2	93.3	3,223	3,185	91.9	93.0
25 to 34 years .....	1,308	1,286	93.4	95.4	1,229	1,188	93.0	95.1
35 to 44 years .....	1,098	1,093	93.6	93.2	1,053	1,049	93.4	92.9
45 to 54 years .....	946	952	88.9	90.7	941	948	88.9	90.7
55 to 64 years .....	630	608	81.6	79.6	629	608	81.6	79.6
55 to 59 years .....	372	363	85.8	84.6	372	363	85.8	84.6
60 to 64 years .....	258	245	76.1	73.2	258	245	76.1	73.2
65 years and over .....	169	178	24.5	26.4	169	178	24.5	26.4

## A- 4: Labor force by sex, age, and color--Continued

Sex, age, and color	Total labor force				Civilian labor force			
	Thousands of persons		Participation rate		Thousands of persons		Participation rate	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
<b>FEMALE</b>								
16 years and over .....	32,201	31,384	44.0	43.7	32,161	31,345	44.0	43.6
16 to 19 years .....	3,230	3,189	43.4	44.1	3,221	3,179	43.3	44.0
16 and 17 years .....	1,313	1,297	34.3	34.9	1,313	1,297	34.3	34.9
18 and 19 years .....	1,917	1,892	53.0	53.8	1,908	1,882	52.9	53.7
20 to 24 years .....	5,033	4,706	58.7	57.2	5,014	4,688	58.6	57.1
25 to 54 years .....	18,648	18,329	51.2	50.7	18,636	18,318	51.1	50.7
25 to 34 years .....	5,831	5,592	45.7	44.9	5,824	5,586	45.6	44.9
35 to 44 years .....	6,097	6,083	52.4	51.6	6,093	6,080	52.3	51.6
45 to 54 years .....	6,720	6,654	55.8	55.8	6,718	6,652	55.8	55.8
55 to 64 years .....	4,235	4,106	43.7	43.1	4,235	4,106	43.7	43.1
55 to 59 years .....	2,575	2,549	49.3	49.6	2,575	2,549	49.3	49.6
60 to 64 years .....	1,660	1,557	37.1	35.5	1,660	1,557	37.1	35.5
65 years and over .....	1,055	1,054	9.6	9.8	1,055	1,054	9.6	9.8
<b>White</b>								
16 years and over .....	28,170	27,335	43.4	42.8	28,135	27,300	43.3	42.7
16 to 19 years .....	2,890	2,822	45.2	45.3	2,882	2,814	45.1	45.3
16 and 17 years .....	1,195	1,711	36.4	36.6	1,195	1,171	36.4	36.6
18 and 19 years .....	1,695	1,651	54.4	54.6	1,687	1,643	54.3	54.5
20 to 24 years .....	4,388	4,066	58.8	56.6	4,371	4,051	58.7	56.5
25 to 54 years .....	16,141	15,788	50.2	49.4	16,130	15,778	50.1	49.4
25 to 34 years .....	4,943	4,690	44.2	43.0	4,937	4,684	44.2	43.0
35 to 44 years .....	5,238	5,206	51.3	50.3	5,235	5,203	51.3	50.3
45 to 54 years .....	5,959	5,892	55.2	55.1	5,957	5,890	55.2	55.1
55 to 64 years .....	3,801	3,694	43.2	42.7	3,801	3,694	43.2	42.7
55 to 59 years .....	2,298	2,292	48.7	49.3	2,298	2,292	48.7	49.3
60 to 64 years .....	1,503	1,402	36.8	35.0	1,503	1,402	36.8	35.0
65 years and over .....	951	964	9.4	9.7	951	964	9.4	9.7
<b>Negro and other races</b>								
16 years and over .....	4,030	4,049	49.2	51.0	4,026	4,045	49.2	50.9
16 to 19 years .....	340	367	32.6	36.5	339	365	32.6	36.4
16 and 17 years .....	118	126	21.8	24.5	118	126	21.8	24.4
18 and 19 years .....	223	240	44.4	49.2	221	239	44.2	49.1
20 to 24 years .....	645	640	57.9	61.3	643	638	57.9	61.3
25 to 54 years .....	2,507	2,541	58.7	60.7	2,506	2,540	59.0	60.6
25 to 34 years .....	888	902	55.7	58.7	887	901	55.7	58.7
35 to 44 years .....	858	877	60.1	61.5	858	876	60.1	61.5
45 to 54 years .....	761	762	60.7	62.0	761	762	60.7	62.0
55 to 64 years .....	434	412	48.5	47.2	434	412	48.5	47.2
55 to 59 years .....	277	257	54.9	52.3	277	257	54.9	52.3
60 to 64 years .....	157	154	40.2	40.6	157	154	40.2	40.6
65 years and over .....	104	90	12.0	10.8	104	90	12.0	10.8

## A- 5: Employment status of persons 16-21 years of age in the noninstitutional population by color and sex

October 1970  
(In thousands)

Employment status	Total			White			Negro and other races		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Total noninstitutional population	22,036	11,115	10,921	19,047	9,647	9,400	2,989	1,469	1,520
Total labor force	12,116	6,844	5,273	10,726	6,045	4,681	1,391	799	592
Percent of population	55.0	61.6	48.3	56.3	62.7	49.8	46.5	54.4	38.9
Civilian labor force	10,858	5,605	5,253	9,608	4,944	4,664	1,250	661	589
Employed	9,310	4,758	4,552	8,386	4,266	4,120	924	492	432
Agriculture	391	332	58	340	292	48	50	40	10
Nonagricultural industries	8,919	4,426	4,493	8,046	3,974	4,071	874	452	422
Unemployed	1,548	846	701	1,222	677	544	326	169	157
Percent of labor force	14.3	15.1	13.4	12.7	13.7	11.7	26.1	25.6	26.6
Looking for full-time work	821	452	369	608	346	262	213	106	107
Looking for part-time work	727	394	333	614	331	283	114	64	50
Not in labor force	9,920	4,272	5,648	8,321	3,602	4,720	1,598	670	929
Major activity: going to school									
Civilian labor force	3,498	1,957	1,541	3,205	1,796	1,409	294	162	132
Employed	2,845	1,574	1,271	2,664	1,481	1,183	181	93	88
Agriculture	135	122	14	128	116	11	8	5	2
Nonagricultural industries	2,710	1,452	1,257	2,537	1,365	1,172	173	88	86
Unemployed	653	383	270	540	315	226	113	69	44
Percent of labor force	18.7	19.6	17.5	16.9	17.5	16.0	38.4	42.4	33.5
Looking for full-time work	38	26	12	25	17	8	13	9	4
Looking for part-time work	615	357	258	515	298	218	100	60	40
Not in labor force	7,656	3,942	3,714	6,489	3,371	3,118	1,167	572	595
Major activity: other									
Civilian labor force	7,360	3,647	3,712	6,403	3,148	3,255	957	499	457
Employed	6,465	3,184	3,281	5,722	2,785	2,936	743	399	344
Agriculture	255	211	45	213	176	37	43	35	8
Nonagricultural industries	6,210	2,973	3,236	5,509	2,609	2,900	701	364	336
Unemployed	895	463	431	681	362	319	213	101	113
Percent of labor force	12.2	12.7	11.6	10.6	11.5	9.8	22.3	20.2	24.7
Looking for full-time work	783	426	357	583	329	254	200	97	103
Looking for part-time work	112	37	75	98	33	65	13	4	9
Not in labor force	2,264	330	1,934	1,832	231	1,601	431	98	333

A- 6: Employment status of the noninstitutional population 16 years and over by sex, age, and color  
(In thousands)

Employment status and color	Total		Men, 20 years and over		Women, 20 years and over		Both sexes, 16-19 years	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
	<b>Total</b>							
Total noninstitutional population	140,886	138,539	60,137	59,288	65,714	64,640	15,035	14,611
Total labor force	86,255	85,038	49,980	49,598	28,971	28,195	7,304	7,244
Percent of population	61.2	61.4	83.1	83.7	44.1	43.6	48.6	49.6
Civilian labor force	83,175	81,510	47,309	46,556	28,940	28,166	6,927	6,789
Employed	78,916	78,671	45,673	45,649	27,449	27,069	5,794	5,952
Agriculture	3,374	3,561	2,500	2,627	580	636	314	297
Nonagricultural industries	75,522	75,110	43,173	43,022	26,869	26,433	5,480	5,655
Unemployed	4,259	2,839	1,636	906	1,491	1,097	1,133	836
Percent of labor force	5.1	3.5	3.5	1.9	5.2	3.9	16.4	12.3
Not in labor force	54,631	53,501	10,157	9,690	36,743	36,445	7,731	7,367
<b>White</b>								
Total noninstitutional population	125,539	123,621	53,992	53,294	58,567	57,697	12,981	12,629
Total labor force	76,744	75,519	44,944	44,619	25,281	24,513	6,520	6,387
Percent of population	61.1	61.1	83.2	83.7	43.2	42.5	50.2	50.6
Civilian labor force	74,002	72,375	42,567	41,905	25,253	24,486	6,183	5,984
Employed	70,496	70,073	41,199	41,145	24,013	23,588	5,284	5,340
Agriculture	3,012	3,166	2,238	2,356	502	552	272	258
Nonagricultural industries	67,484	66,907	38,961	38,789	23,511	23,035	5,012	5,082
Unemployed	3,506	2,302	1,367	759	1,239	898	899	645
Percent of labor force	4.7	3.2	3.2	1.8	4.9	3.7	14.5	10.8
Not in labor force	48,794	48,101	9,048	8,675	33,286	33,185	6,461	6,242
<b>Negro and other races</b>								
Total noninstitutional population	15,347	14,919	6,145	5,994	7,147	6,943	2,054	1,982
Total labor force	9,510	9,519	5,036	4,979	3,690	3,683	784	857
Percent of population	62.0	63.8	81.9	83.1	51.6	53.0	38.2	43.2
Civilian labor force	9,173	9,135	4,742	4,651	3,687	3,679	744	804
Employed	8,420	8,598	4,474	4,504	3,436	3,481	510	613
Agriculture	383	394	262	271	78	84	42	40
Nonagricultural industries	8,037	8,203	4,212	4,233	3,357	3,397	468	573
Unemployed	753	537	268	147	251	198	233	192
Percent of labor force	8.2	5.9	5.7	3.2	6.8	5.4	31.4	23.8
Not in labor force	5,837	5,400	1,109	1,015	3,457	3,260	1,270	1,125

**HOUSEHOLD DATA**

**A-7: Full- and part-time status of the civilian labor force by age and sex**  
October 1970

(In thousands)

Age and sex	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>									
16 years and over .....	70,756	65,239	2,370	3,146	4.4	12,420	11,306	1,113	9.0
16 to 21 years .....	6,305	5,016	468	821	13.0	4,553	3,826	727	16.0
16 to 19 years .....	3,164	2,368	299	497	15.7	3,763	3,127	636	16.9
16 and 17 years .....	525	336	75	113	21.6	2,419	2,001	419	17.3
18 and 19 years .....	2,640	2,032	224	384	14.5	1,343	1,127	217	16.1
20 years and over .....	67,592	62,871	2,072	2,649	3.9	8,657	8,179	478	5.5
20 to 24 years .....	9,227	8,058	394	775	8.4	1,551	1,400	151	9.7
25 years and over .....	58,365	54,813	1,678	1,875	3.2	7,106	6,779	327	4.6
25 to 54 years .....	46,305	43,525	1,229	1,551	3.3	4,590	4,344	248	5.4
55 years and over .....	12,060	11,288	449	323	2.7	2,515	2,436	79	3.1
<b>MALE</b>									
16 years and over .....	46,640	43,699	1,207	1,734	3.7	4,375	3,871	504	11.5
16 to 21 years .....	3,267	2,568	248	452	13.8	2,337	1,943	394	16.9
16 to 19 years .....	1,716	1,279	179	258	15.0	1,990	1,645	344	17.3
20 years and over .....	44,923	42,420	1,028	1,476	3.3	2,385	2,225	160	6.7
20 to 24 years .....	5,078	4,434	194	449	8.8	686	599	87	12.7
25 years and over .....	39,846	37,985	833	1,027	2.6	1,700	1,627	73	4.3
25 to 54 years .....	31,708	30,295	590	822	2.6	551	521	30	5.4
55 years and over .....	8,138	7,690	243	205	2.5	1,148	1,105	43	3.7
<b>FEMALE</b>									
16 years and over .....	24,116	21,540	1,163	1,412	5.9	8,045	7,436	609	7.6
16 to 21 years .....	3,037	2,448	220	369	12.1	2,216	1,883	333	15.0
16 to 19 years .....	1,448	1,089	120	239	16.5	1,773	1,482	291	16.4
20 years and over .....	22,668	20,451	1,044	1,173	5.2	6,271	5,954	318	5.1
20 to 24 years .....	4,149	3,624	199	326	7.9	865	801	64	7.4
25 years and over .....	18,519	16,828	845	848	4.6	5,406	5,153	254	4.7
25 to 54 years .....	14,597	13,230	639	728	5.0	4,039	3,822	218	5.4
55 years and over .....	3,922	3,598	206	120	3.1	1,367	1,330	36	2.6

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

A- 8: Unemployed persons by sex and age

Age	Male				Female			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
<b>Total, 16 years and over</b> .....	2,238	1,309	4.4	2.6	2,021	1,530	6.3	4.9
16 to 19 years .....	602	403	16.3	11.2	530	434	16.5	13.6
16 and 17 years .....	300	219	18.4	13.3	232	215	17.7	16.6
18 and 19 years .....	302	183	14.6	9.4	298	219	15.6	11.6
20 years and over .....	1,636	906	3.5	1.9	1,491	1,097	5.2	3.9
20 to 24 years .....	536	270	9.3	5.1	390	318	7.8	6.8
25 years and over .....	1,100	636	2.6	1.5	1,101	779	4.6	3.3
25 to 34 years .....	372	179	3.3	1.6	367	278	6.3	5.0
35 to 44 years .....	239	136	2.3	1.3	336	204	5.5	3.4
45 to 54 years .....	242	140	2.3	1.4	242	177	3.6	2.7
55 to 64 years .....	177	128	2.5	1.8	130	91	3.1	2.2
55 to 59 years .....	111	71	2.6	1.7	78	66	3.0	2.6
60 to 64 years .....	66	57	2.3	1.9	52	25	3.1	1.6
65 years and over .....	70	52	3.2	2.3	26	29	2.4	2.8
<b>Household head, 16 years and over</b> .....	1,144	608	2.7	1.5	305	205	4.6	3.2
16 to 24 years .....	221	87	6.4	2.8	49	34	6.9	5.2
25 to 54 years .....	690	359	2.3	1.2	193	120	5.1	3.3
55 years and over .....	232	162	2.6	1.8	63	51	2.9	2.3

A- 9: Unemployed persons by marital status, sex, age, and color

Marital status, age, and color	Male				Female			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
<b>Total, 16 years and over</b> .....	2,238	1,309	4.4	2.6	2,021	1,530	6.3	4.9
Married, spouse present .....	978	518	2.5	1.3	1,020	756	5.4	4.1
Widowed, divorced, or separated .....	187	112	6.6	4.0	320	205	5.4	3.5
Single (never married) .....	1,073	679	11.8	7.8	680	570	9.4	8.1
<b>Total, 20 to 64 years of age</b> .....	1,566	854	3.5	1.9	1,465	1,068	5.3	3.9
Married, spouse present .....	895	480	2.4	1.3	948	704	5.2	3.9
Widowed, divorced, or separated .....	169	93	6.8	3.8	292	175	5.6	3.4
Single (never married) .....	501	282	9.0	5.4	226	189	5.3	4.5
<b>White, 16 years and over</b> .....	1,855	1,086	4.0	2.4	1,651	1,216	5.9	4.5
Married, spouse present .....	858	457	2.4	1.3	908	651	5.3	4.0
Widowed, divorced, or separated .....	146	79	6.5	3.6	235	143	5.0	3.0
Single (never married) .....	850	551	10.7	7.3	508	422	8.0	6.9
<b>White, 20 to 64 years of age</b> .....	1,303	716	3.2	1.8	1,215	870	5.0	3.7
Married, spouse present .....	781	421	2.3	1.3	846	607	5.1	3.8
Widowed, divorced, or separated .....	132	66	6.7	3.5	214	116	5.2	2.9
Single (never married) .....	390	229	8.2	5.1	155	147	4.2	4.1
<b>Negro and other races, 16 years and over</b> .....	383	223	7.4	4.4	370	314	9.2	7.8
Married, spouse present .....	120	61	3.5	1.8	112	104	5.7	5.2
Widowed, divorced, or separated .....	41	33	7.0	5.6	86	62	7.1	5.5
Single (never married) .....	222	128	18.7	11.2	172	148	19.9	16.2
<b>Negro and other races, 20 to 64 years of age</b> .....	261	138	5.7	3.1	250	196	7.0	5.5
Married, spouse present .....	114	59	3.5	1.8	103	96	5.5	4.9
Widowed, divorced, or separated .....	37	27	7.0	5.0	76	59	6.8	5.6
Single (never married) .....	111	53	13.7	7.3	70	41	12.3	7.0

A-10: Unemployed persons by occupation of last job and sex

Occupation	Thousands of persons		Unemployment rates					
			Total		Male		Female	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
Total.....	4,259	2,839	5.1	3.5	4.4	2.6	6.3	4.9
White-collar workers.....	1,213	886	3.1	2.3	2.2	1.2	4.1	3.5
Professional and technical.....	208	164	1.8	1.5	1.8	.9	1.7	2.4
Managers, officials, and proprietors.....	125	76	1.5	.9	1.3	.7	2.2	2.0
Clerical workers.....	669	483	4.7	3.4	3.8	2.2	5.0	3.8
Sales workers.....	210	163	4.1	3.3	2.9	2.1	5.5	4.9
Blue-collar workers.....	1,874	1,089	6.3	3.7	5.5	3.1	10.0	6.3
Craftsmen and foremen.....	365	209	3.4	2.0	3.4	1.8	3.9	6.2
Carpenters and other construction craftsmen.....	145	91	4.8	3.0	4.9	2.9	--	(1)
All other.....	220	118	2.9	1.6	2.8	1.4	4.0	5.8
Operatives.....	1,122	653	7.5	4.3	6.1	3.3	10.4	6.3
Drivers and deliverymen.....	116	69	4.3	2.6	4.2	2.5	6.0	3.6
All other.....	1,006	584	8.2	4.7	6.8	3.6	10.5	6.4
Nonfarm laborers.....	387	226	9.8	5.9	9.7	6.0	13.7	5.4
Construction laborers.....	138	78	15.1	9.1	15.0	9.0	(1)	(1)
All other.....	249	148	8.3	5.0	8.0	5.1	12.7	4.9
Service workers.....	580	402	5.6	4.0	5.0	4.1	5.8	4.0
Private household.....	69	54	4.3	3.2	--	(1)	4.4	3.3
All other.....	510	348	5.8	4.2	5.1	4.1	6.3	4.3
Farmers and farm laborers.....	79	50	2.5	1.5	2.3	1.1	3.6	3.3
No previous work experience.....	514	414	--	--	--	--	--	--
16 to 19 years.....	406	301	--	--	--	--	--	--
20 to 24 years.....	69	66	--	--	--	--	--	--
25 years and over.....	39	47	--	--	--	--	--	--

<sup>1</sup>Percent not shown where base is less than 100,000.

A-11: Unemployed persons by industry of last job and sex

Industry	Percent distribution		Unemployment rates					
			Total		Male		Female	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
Total.....	100.0	100.0	5.1	3.5	4.4	2.6	6.3	4.9
Private wage and salary workers.....	77.6	72.1	5.5	3.5	4.8	2.8	6.5	4.6
Mining.....	.4	.2	3.2	1.2	3.4	1.5	--	--
Construction.....	7.6	6.7	8.2	5.0	8.3	5.0	5.5	3.8
Manufacturing.....	31.0	25.4	6.2	3.4	5.0	2.4	9.1	5.7
Durable goods.....	19.6	13.6	6.7	3.0	5.7	2.2	10.3	5.9
Primary metal industries.....	1.7	1.1	5.7	2.3	5.4	1.9	9.2	6.7
Fabricated metal products.....	2.6	1.9	6.7	3.1	5.0	2.5	13.5	5.5
Machinery.....	3.3	1.9	5.9	2.4	5.3	2.1	9.1	3.8
Electrical equipment.....	4.0	2.8	8.0	3.6	4.8	2.0	12.5	5.8
Motor vehicles and equipment.....	1.9	.6	7.0	1.5	7.1	1.2	6.3	4.0
All other transportation equipment.....	2.0	2.1	7.6	4.8	7.0	3.7	12.0	11.3
Other durable goods industries.....	3.9	3.1	6.3	3.1	5.9	2.1	7.5	6.0
Nondurable goods.....	11.4	11.9	5.5	3.8	3.9	2.7	8.1	5.5
Food and kindred products.....	2.7	2.9	6.1	4.4	5.0	3.2	9.3	7.2
Textile mill products.....	1.6	1.6	6.8	4.4	3.7	2.1	10.5	6.6
Apparel and other finished textile products.....	3.1	3.2	9.3	6.3	10.9	7.8	8.8	5.9
Other nondurable goods industries.....	3.9	4.2	3.8	2.7	2.8	2.1	6.2	3.9
Transportation and public utilities.....	3.1	3.9	2.9	2.3	2.6	2.3	3.7	2.5
Railroads and railway express.....	.4	.3	2.7	1.4	1.7	1.2	(1)	(1)
Other transportation.....	1.7	2.6	3.8	3.7	3.9	3.7	3.2	3.7
Communication and other public utilities.....	.9	1.0	2.1	1.4	1.4	1.0	3.1	1.9
Wholesale and retail trade.....	18.1	18.4	5.5	4.0	4.2	3.2	7.3	5.1
Finance, insurance, and real estate.....	2.9	3.1	3.3	2.5	2.5	1.8	4.1	3.2
Service industries.....	14.5	14.4	5.0	3.4	5.1	2.4	5.0	4.0
Professional services.....	4.4	4.8	3.1	2.4	2.7	.7	3.2	3.2
All other service industries.....	10.1	9.6	7.0	4.4	7.0	3.7	7.0	4.9
Agricultural wage and salary workers.....	2.0	2.3	7.0	5.1	6.4	4.1	10.1	9.4
All other classes of workers.....	8.3	11.1	1.7	1.5	1.3	.9	2.2	2.5
No previous work experience.....	12.1	14.6	--	--	--	--	--	--

<sup>1</sup>Percent not shown where base is less than 100,000.

A-12: Unemployed persons by reason for unemployment, sex, age, and color

Reason for unemployment	Total unemployed		Male, 20 years and over		Female, 20 years and over		Both sexes, 16 to 19 years		White		Negro and other races	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
<b>Unemployment level</b>												
Total unemployed, in thousands . . . . .	4,259	2,839	1,636	906	1,491	1,097	1,133	836	3,506	2,302	753	537
Lost last job . . . . .	1,866	882	1,063	458	610	314	193	110	1,538	728	328	154
Left last job . . . . .	629	451	235	141	246	209	148	101	542	383	88	68
Reentered labor force . . . . .	1,254	1,093	287	267	579	501	388	324	1,034	861	219	232
Never worked before . . . . .	510	414	51	40	56	72	404	301	392	330	118	84
Total unemployed, percent distribution . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Lost last job . . . . .	43.8	31.0	65.0	50.5	41.0	28.7	17.0	13.1	43.8	31.7	43.5	28.7
Left last job . . . . .	14.8	15.9	14.4	15.5	16.5	19.1	13.1	12.1	15.4	16.6	11.7	12.6
Reentered labor force . . . . .	29.4	38.5	17.6	29.5	38.8	45.7	34.3	38.8	29.5	37.4	29.1	43.2
Never worked before . . . . .	12.0	14.6	3.1	4.4	3.8	6.6	35.7	36.0	11.2	14.3	15.7	15.6
<b>Unemployment rate</b>												
Total unemployment rate . . . . .	5.1	3.5	3.5	1.9	5.2	3.9	16.4	12.3	4.7	3.2	8.2	5.9
Job-loser rate <sup>1</sup> . . . . .	2.2	1.1	2.2	1.0	2.2	1.1	2.8	1.6	2.1	1.0	3.5	1.7
Job-leaver rate <sup>1</sup> . . . . .	.8	.6	.5	.3	.9	.7	2.1	1.5	.7	.5	1.0	.7
Reentrant rate <sup>1</sup> . . . . .	1.5	1.3	.6	.6	2.0	1.8	5.6	4.8	1.4	1.2	2.4	2.5
New entrant rate <sup>1</sup> . . . . .	.6	.5	.1	.1	.2	.3	5.8	4.4	.5	.5	1.3	.9

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

A-13: Unemployed persons by reason for unemployment, duration, sex, and age

October 1970  
(Percent distribution)

Reason, sex, and age	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
<b>Total, 16 years and over . . . . .</b>	<b>4,259</b>	<b>100.0</b>	<b>52.9</b>	<b>31.2</b>	<b>15.9</b>	<b>10.5</b>	<b>5.4</b>
Lost last job . . . . .	1,866	100.0	47.5	32.4	20.2	12.2	8.0
Left last job . . . . .	629	100.0	61.0	27.7	11.3	7.0	4.3
Reentered labor force . . . . .	1,254	100.0	58.9	30.3	10.8	7.9	2.9
Never worked before . . . . .	510	100.0	48.4	33.3	18.2	14.9	3.3
<b>Male, 20 years and over . . . . .</b>	<b>1,636</b>	<b>100.0</b>	<b>48.6</b>	<b>31.8</b>	<b>19.5</b>	<b>11.9</b>	<b>7.6</b>
Lost last job . . . . .	1,063	100.0	45.6	33.5	20.8	12.0	8.8
Left last job . . . . .	235	100.0	57.2	27.1	15.7	8.5	7.2
Reentered labor force . . . . .	287	100.0	54.4	28.6	17.1	12.9	4.2
Never worked before . . . . .	51	100.0	(1)	(1)	(1)	(1)	(1)
<b>Female, 20 years and over . . . . .</b>	<b>1,491</b>	<b>100.0</b>	<b>54.8</b>	<b>28.9</b>	<b>16.3</b>	<b>10.5</b>	<b>5.8</b>
Lost last job . . . . .	610	100.0	47.2	29.5	23.3	14.9	8.4
Left last job . . . . .	246	100.0	60.6	27.2	12.2	8.1	4.1
Reentered labor force . . . . .	579	100.0	61.1	28.3	10.6	7.1	3.5
Never worked before . . . . .	56	100.0	(1)	(1)	(1)	(1)	(1)
<b>Both sexes, 16 to 19 years . . . . .</b>	<b>1,133</b>	<b>100.0</b>	<b>56.7</b>	<b>33.4</b>	<b>9.9</b>	<b>8.3</b>	<b>1.6</b>
Lost last job . . . . .	193	100.0	58.0	35.8	6.2	3.6	2.6
Left last job . . . . .	148	100.0	67.6	29.1	3.4	3.4	--
Reentered labor force . . . . .	388	100.0	59.1	34.2	6.7	5.7	1.0
Never worked before . . . . .	404	100.0	49.5	33.2	17.4	14.9	2.5

<sup>1</sup>Percent not shown where base is less than 100,000.

A-14: Unemployed persons by duration of unemployment

Duration of unemployment	Total				Household head			
	Thousands		Percent distribution		Thousands		Percent distribution	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
Total.....	4,259	2,839	100.0	100.0	1,449	813	100.0	100.0
Less than 5 weeks.....	2,254	1,733	52.9	61.0	694	493	47.9	60.6
5 to 14 weeks.....	1,329	778	31.2	27.4	465	185	32.1	22.8
5 to 10 weeks.....	1,097	627	25.8	22.1	363	144	25.1	17.7
11 to 14 weeks.....	232	150	5.4	5.3	102	41	7.0	5.0
15 weeks and over.....	676	329	15.9	11.6	290	136	20.0	16.6
15 to 26 weeks.....	446	209	10.5	7.4	166	66	11.5	8.1
27 weeks and over.....	230	120	5.4	4.2	124	69	8.6	8.5
Average (mean) duration.....	8.4	7.4	--	--	10.1	9.7	--	--

A-15: Unemployed persons by duration, sex, age, color, and marital status  
October 1970

Sex, age, color, and marital status	Thousands of persons					Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
<b>Total</b> .....	4,259	2,254	1,329	446	230	52.9	61.0	15.9	11.6
16 to 21 years.....	1,548	891	511	118	29	57.6	60.7	9.4	7.6
16 to 19 years.....	1,133	642	378	94	18	56.7	59.2	9.9	7.6
20 to 24 years.....	925	532	274	85	34	57.5	65.9	12.8	6.6
25 to 44 years.....	1,314	694	393	150	77	52.8	63.6	17.3	11.9
45 years and over.....	887	385	284	117	101	43.4	55.5	24.6	21.3
<b>Male</b> .....	2,238	1,133	726	242	137	50.6	62.4	16.9	12.6
16 to 21 years.....	846	485	278	65	18	57.3	61.1	9.8	5.6
16 to 19 years.....	602	337	206	47	12	56.0	58.8	9.8	6.3
20 to 24 years.....	536	314	149	53	20	58.6	73.1	13.6	5.2
25 to 44 years.....	611	282	205	78	45	46.2	62.9	20.1	14.9
45 years and over.....	489	199	165	64	61	40.7	57.5	25.5	24.5
<b>Female</b> .....	2,021	1,122	603	204	93	55.5	59.8	14.7	10.8
16 to 21 years.....	701	406	232	53	11	57.8	60.3	9.0	9.3
16 to 19 years.....	530	305	172	47	6	57.5	59.6	10.0	8.9
20 to 24 years.....	390	218	125	32	14	56.0	59.9	11.8	7.8
25 to 44 years.....	703	412	187	73	32	58.6	64.1	14.9	10.2
45 years and over.....	397	186	118	53	40	46.8	53.3	23.5	17.8
<b>White: Total</b> .....	3,506	1,887	1,062	372	186	53.8	61.7	15.9	11.1
Male.....	1,855	961	584	200	110	51.8	62.2	16.7	12.5
Female.....	1,651	926	478	171	76	56.1	61.2	15.0	9.9
<b>Negro and other races: Total</b> .....	755	368	267	75	44	48.8	58.2	15.8	13.6
Male.....	383	172	142	42	27	44.9	63.3	18.0	12.9
Female.....	370	196	125	33	17	52.9	54.6	13.4	14.1
<b>Male: Married, wife present</b> .....	978	461	323	114	80	47.2	65.4	19.8	14.8
Widowed, divorced, or separated.....	187	88	64	25	11	47.0	60.0	19.1	21.3
Single (never married).....	1,073	584	340	103	46	54.4	60.5	13.9	9.4
<b>Female: Married, husband present</b> .....	1,020	575	282	107	56	56.4	62.1	16.0	10.8
Widowed, divorced, or separated.....	320	168	102	35	15	52.5	56.3	15.7	12.6
Single (never married).....	680	378	219	62	21	55.6	58.2	12.2	10.0



**A-16: Unemployed persons by duration, occupation, and industry of last job**  
October 1970

Occupation and industry	Thousands of persons					Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over	Oct.	Oct.	Oct.	Oct.
						1970	1969	1970	1969
<b>OCCUPATION</b>									
White-collar workers.....	1,213	650	376	112	74	53.6	57.8	15.4	11.8
Professional and managerial.....	333	164	107	29	33	49.2	58.3	18.6	16.3
Clerical workers.....	669	368	199	67	34	55.1	56.1	15.1	9.8
Sales workers.....	210	118	69	16	7	56.2	61.9	11.1	11.1
Blue-collar workers.....	1,874	977	578	202	116	52.2	65.2	17.0	11.3
Craftsmen and foremen.....	365	176	122	47	19	48.3	68.2	18.1	9.7
Operatives.....	1,122	605	315	124	77	53.9	62.6	18.0	12.6
Nonfarm laborers.....	387	196	140	31	20	50.6	69.9	13.1	8.7
Service workers.....	580	328	182	50	19	56.6	62.6	11.9	14.4
<b>INDUSTRY<sup>1</sup></b>									
Agriculture.....	87	58	22	5	2	(2)	(2)	(2)	(2)
Construction.....	334	177	106	35	17	53.0	78.1	15.6	6.6
Manufacturing.....	1,326	659	424	141	103	49.7	58.9	18.4	13.3
Durable goods.....	840	386	294	96	64	46.0	54.8	19.0	14.6
Nondurable goods.....	486	273	130	45	39	56.1	63.7	17.1	11.8
Transportation and public utilities.....	148	89	40	8	10	60.1	66.6	12.2	15.3
Wholesale and retail trade.....	774	421	231	91	31	54.4	60.0	15.8	10.6
Finance and service industries.....	877	500	268	68	42	57.0	61.8	12.5	12.4
Public administration.....	121	58	44	14	5	47.7	53.0	15.8	1.2
No previous work experience.....	514	250	171	76	17	48.6	55.0	18.2	9.8

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

<sup>2</sup> Percent not shown where base is less than 100,000.

**A-17: Employed persons by sex and age**  
(In thousands)

Age and type of industry	Total		Male		Female	
	Oct.	Oct.	Oct.	Oct.	Oct.	Oct.
	1970	1969	1970	1969	1970	1969
<b>All industries.....</b>	<b>78,916</b>	<b>78,671</b>	<b>48,777</b>	<b>48,857</b>	<b>30,139</b>	<b>29,814</b>
16 to 19 years.....	5,794	5,952	3,104	3,207	2,691	2,745
16 and 17 years.....	2,412	2,517	1,331	1,435	1,081	1,082
18 and 19 years.....	3,382	3,436	1,772	1,772	1,610	1,663
20 to 24 years.....	9,852	9,368	5,228	4,997	4,624	4,371
25 to 54 years.....	49,097	49,131	31,406	31,471	17,690	17,659
25 to 34 years.....	16,484	16,136	11,027	10,828	5,457	5,308
35 to 44 years.....	15,955	16,278	10,198	10,403	5,756	5,875
45 to 54 years.....	16,658	16,716	10,181	10,240	6,477	6,476
55 to 64 years.....	11,032	11,034	6,927	7,020	4,105	4,014
55 to 59 years.....	6,619	6,639	4,122	4,156	2,497	2,483
60 to 64 years.....	4,413	4,395	2,805	2,864	1,608	1,531
65 years and over.....	3,141	3,186	2,112	2,161	1,029	1,025
<b>Nonagricultural industries.....</b>	<b>75,522</b>	<b>75,110</b>	<b>46,006</b>	<b>45,966</b>	<b>29,516</b>	<b>29,144</b>
16 to 19 years.....	5,480	5,655	2,833	2,944	2,647	2,711
16 and 17 years.....	2,239	2,327	1,188	1,270	1,051	1,057
18 and 19 years.....	3,242	3,328	1,645	1,673	1,597	1,655
20 to 24 years.....	9,623	9,151	5,037	4,809	4,586	4,342
25 to 54 years.....	47,402	47,304	30,084	30,078	17,318	17,225
25 to 34 years.....	16,042	15,653	10,667	10,445	5,375	5,208
35 to 44 years.....	15,357	15,650	9,744	9,940	5,613	5,710
45 to 54 years.....	16,003	16,001	9,673	9,693	6,330	6,308
55 to 64 years.....	10,351	10,300	6,364	6,401	3,987	3,899
55 to 59 years.....	6,273	6,247	3,850	3,827	2,422	2,421
60 to 64 years.....	4,078	4,053	2,514	2,575	1,564	1,478
65 years and over.....	2,666	2,700	1,688	1,734	978	966
<b>Agriculture.....</b>	<b>3,394</b>	<b>3,561</b>	<b>2,771</b>	<b>2,891</b>	<b>623</b>	<b>670</b>
16 to 19 years.....	314	297	271	264	43	34
16 and 17 years.....	173	190	143	165	30	25
18 and 19 years.....	141	108	127	99	13	9
20 to 24 years.....	229	217	191	188	38	28
25 to 54 years.....	1,695	1,826	1,322	1,393	373	433
25 to 34 years.....	442	483	360	383	82	100
35 to 44 years.....	597	628	454	463	143	166
45 to 54 years.....	655	715	508	547	147	168
55 to 64 years.....	681	734	563	619	118	116
55 to 59 years.....	346	392	272	329	74	63
60 to 64 years.....	335	343	291	290	44	53
65 years and over.....	475	486	424	428	51	59

## A-18: Employed persons by occupation group, sex, and age

(In thousands)

Occupation	Total		Male, 20 years and over		Female, 20 years and over		Male, 16-19 years		Female, 16-19 years	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
<b>Total</b> .....	78,916	78,671	45,673	45,649	27,449	27,069	3,104	3,207	2,691	2,745
<b>White-collar workers</b> .....	38,237	37,471	19,372	19,123	16,733	16,132	616	619	1,516	1,596
Professional and technical .....	11,384	11,111	6,778	6,876	4,435	4,056	84	99	86	81
Medical and other health .....	1,839	1,654	663	663	1,146	963	4	4	26	23
Teachers, except college.....	2,616	2,534	806	799	1,804	1,726	2	4	5	4
Other professional and technical .....	6,929	6,923	5,309	5,414	1,485	1,367	78	91	55	54
Managers, officials, and proprietors .....	8,357	8,037	6,932	6,717	1,372	1,280	41	23	13	17
Salaried workers .....	6,115	5,810	5,112	4,892	952	881	39	21	12	16
Self-employed workers in retail trade.....	1,085	1,041	819	787	263	252	1	1	1	1
Self-employed workers, except retail trade .....	1,157	1,186	1,000	1,039	157	147	-	1	-	-
Clerical workers .....	13,548	13,572	3,087	3,035	9,075	9,057	268	291	1,118	1,189
Stenographers, typists, and secretaries.....	3,473	3,468	63	52	3,091	3,067	4	3	315	346
Other clerical workers .....	10,075	10,104	3,024	2,983	5,984	5,990	264	288	803	843
Sales workers.....	4,948	4,750	2,575	2,496	1,852	1,739	223	206	299	310
Retail trade.....	3,011	2,885	947	901	1,589	1,526	193	166	281	292
Other sales workers .....	1,937	1,866	1,628	1,595	262	213	30	40	17	18
<b>Blue-collar workers</b> .....	27,782	28,454	21,290	21,469	4,541	4,871	1,696	1,821	254	292
Craftsmen and foremen .....	10,317	10,338	9,716	9,732	371	348	216	245	14	13
Carpenters .....	872	930	856	906	1	-	16	24	-	-
Construction craftsmen, except carpenters .....	1,992	1,982	1,930	1,919	19	20	41	44	2	-
Mechanics and repairmen .....	2,828	2,694	2,698	2,567	31	29	92	96	6	2
Metal craftsmen, except mechanics .....	1,192	1,287	1,153	1,242	17	20	20	22	1	2
Other craftsmen and kindred workers .....	1,918	1,960	1,686	1,740	186	161	42	51	5	8
Foremen, not elsewhere classified .....	1,516	1,485	1,394	1,359	116	119	6	7	-	-
Operatives .....	13,923	14,535	8,869	9,026	4,050	4,435	784	826	219	248
Drivers and deliverymen .....	2,601	2,625	2,361	2,369	106	120	131	132	3	4
Other operatives .....	11,322	11,910	6,509	6,658	3,944	4,315	652	695	217	243
Durable goods manufacturing .....	4,559	4,938	3,097	3,255	1,251	1,428	169	184	42	71
Nondurable goods manufacturing .....	3,810	3,963	1,582	1,584	1,987	2,121	124	137	118	121
Other industries .....	2,953	3,009	1,830	1,819	706	766	359	374	57	51
Nonfarm laborers .....	3,541	3,581	2,705	2,711	120	87	696	750	21	31
Construction .....	774	786	693	675	4	1	77	108	-	2
Manufacturing .....	976	1,039	781	865	55	51	134	113	5	10
Other industries .....	1,791	1,756	1,231	1,711	61	36	484	529	16	20
<b>Service workers</b> .....	9,843	9,528	2,754	2,666	5,654	5,509	554	524	881	829
Private household workers .....	1,565	1,608	27	29	1,212	1,282	10	7	316	290
Service workers, except private household ..	8,279	7,920	2,727	2,637	4,442	4,227	544	516	565	539
Protective service workers .....	991	925	922	855	60	53	6	10	2	7
Waiters, cooks, and bartenders .....	2,288	2,182	431	389	1,432	1,394	131	139	293	260
Other service workers .....	5,000	4,813	1,374	1,393	2,949	2,780	407	367	270	272
<b>Form workers</b> .....	3,054	3,218	2,257	2,390	521	557	238	243	40	28
Farmers and farm managers .....	1,705	1,816	1,621	1,732	74	77	9	6	1	-
Farm laborers and foremen .....	1,349	1,402	636	658	447	480	228	237	39	28
Paid workers .....	874	912	590	619	119	144	152	137	14	13
Unpaid family workers .....	475	490	46	39	328	336	76	100	25	15

## A-19: Employed persons by major occupation group, sex, and color

(Percent distribution)

Occupation group and color	Total		Male		Female	
	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
<b>Total</b>						
Total employed (thousands) .....	78,916	78,761	48,777	48,857	30,139	29,814
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b> .....	48.5	47.6	41.0	40.4	60.6	59.5
Professional and technical .....	14.4	14.1	14.1	14.3	15.0	13.9
Managers, officials, and proprietors .....	10.6	10.2	14.3	13.8	4.6	4.4
Clerical workers .....	17.2	17.3	6.9	6.8	33.8	34.4
Sales workers .....	6.3	6.0	5.7	5.5	7.1	6.9
<b>Blue-collar workers</b> .....	35.2	36.2	47.1	47.7	15.9	17.3
Craftsmen and foremen .....	13.1	13.1	20.4	20.4	1.3	1.2
Operatives .....	17.6	18.5	19.8	20.2	14.2	15.7
Nonfarm laborers .....	4.5	4.6	7.0	7.1	.5	.4
<b>Service workers</b> .....	12.5	12.1	6.8	6.5	21.7	21.3
Private household workers .....	2.0	2.0	.1	.1	5.1	5.3
Other service workers .....	10.5	10.1	6.7	6.5	16.6	16.0
<b>Farm workers</b> .....	3.9	4.1	5.1	5.4	1.9	2.0
Farmers and farm managers .....	2.2	2.3	3.3	3.6	.2	.3
Farm laborers and foremen .....	1.7	1.8	1.8	1.8	1.6	1.7
<b>White</b>						
Total employed (thousands) .....	70,496	70,073	44,013	43,989	26,484	26,084
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b> .....	51.0	50.2	43.1	42.6	64.0	63.1
Professional and technical .....	15.1	14.8	14.7	15.0	15.6	14.3
Managers, officials, and proprietors .....	11.4	11.1	15.4	14.9	4.9	4.8
Clerical workers .....	17.7	17.8	6.9	6.7	35.7	36.5
Sales workers .....	6.8	6.6	6.1	6.0	7.8	7.5
<b>Blue-collar workers</b> .....	34.2	35.2	45.6	46.2	15.3	16.7
Craftsmen and foremen .....	13.6	13.7	21.0	21.1	1.3	1.3
Operatives .....	16.8	17.7	18.8	19.2	13.6	15.1
Nonfarm laborers .....	3.8	3.9	5.8	5.9	.4	.4
<b>Service workers</b> .....	10.9	10.4	6.1	5.8	18.8	18.3
Private household workers .....	1.3	1.3	.1	.1	3.4	3.4
Other service workers .....	9.6	9.1	6.1	5.7	15.4	14.8
<b>Farm workers</b> .....	3.9	4.1	5.1	5.4	1.8	1.9
Farmers and farm managers .....	2.3	2.5	3.5	3.8	.3	.3
Farm laborers and foremen .....	1.6	1.6	1.6	1.6	1.5	1.6
<b>Negro and other races</b>						
Total employed (thousands) .....	8,420	8,598	4,764	4,868	3,656	3,730
Percent .....	100.0	100.0	100.0	100.0	100.0	100.0
<b>White-collar workers</b> .....	27.2	26.3	20.9	20.3	35.3	34.1
Professional and technical .....	8.9	8.8	7.8	7.3	10.4	10.8
Managers, officials, and proprietors .....	3.5	2.8	4.4	3.8	2.3	1.4
Clerical workers .....	12.7	12.9	6.8	7.7	20.3	19.7
Sales workers .....	2.1	1.8	2.0	1.5	2.3	2.2
<b>Blue-collar workers</b> .....	43.3	43.7	61.1	60.8	20.0	21.4
Craftsmen and foremen .....	8.5	8.7	14.2	14.7	1.0	.9
Operatives .....	24.5	25.0	29.3	28.7	18.2	20.1
Nonfarm laborers .....	10.3	10.0	17.6	17.4	.8	.4
<b>Service workers</b> .....	25.6	26.0	12.7	13.5	42.5	42.3
Private household workers .....	7.7	8.0	.2	.2	17.4	18.1
Other service workers .....	17.9	18.0	12.5	13.3	25.1	24.2
<b>Farm workers</b> .....	3.9	4.1	5.2	5.5	2.2	2.2
Farmers and farm managers .....	1.0	.9	1.7	1.5	.1	.1
Farm laborers and foremen .....	3.0	3.2	3.6	4.0	2.2	2.1

## A-20: Employed persons by class of worker, sex, and age

October 1970  
(In thousands)

Age and sex	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					
<b>Total</b> .....	69,706	1,761	12,846	55,099	5,296	519	1,167	1,745	482
16 to 19 years.....	5,389	377	508	4,505	62	29	202	11	101
16 and 17 years.....	2,184	296	162	1,726	38	16	102	3	69
18 and 19 years.....	3,205	81	346	2,779	24	13	100	9	32
20 to 24 years.....	9,421	107	1,650	7,664	180	22	147	43	38
25 to 34 years.....	15,149	143	2,800	12,207	819	73	203	183	57
35 to 44 years.....	14,088	218	2,682	11,188	1,155	115	209	303	85
45 to 54 years.....	14,423	318	3,027	11,078	1,409	171	164	396	95
55 to 64 years.....	9,153	373	1,843	6,937	1,111	86	153	447	81
55 to 59 years.....	5,576	195	1,115	4,265	638	59	84	214	48
60 to 64 years.....	3,577	178	728	2,671	473	28	69	234	32
65 years and over.....	2,083	226	337	1,520	560	23	89	361	25
<b>Male</b> .....	42,015	181	6,841	34,993	3,948	42	991	1,658	121
16 to 19 years.....	2,771	61	210	2,500	42	20	185	10	76
16 and 17 years.....	1,148	55	76	1,017	28	12	91	1	51
18 and 19 years.....	1,623	6	134	1,483	15	7	93	9	25
20 to 24 years.....	4,927	8	631	4,289	102	8	124	43	25
25 to 34 years.....	10,087	7	1,597	8,483	573	7	174	178	8
35 to 44 years.....	8,858	14	1,520	7,324	884	1	164	289	1
45 to 54 years.....	8,595	14	1,685	6,896	1,077	1	130	377	2
55 to 64 years.....	5,516	37	995	4,484	848	-	136	424	2
55 to 59 years.....	3,372	16	612	2,744	479	-	71	200	1
60 to 64 years.....	2,145	21	383	1,740	369	-	65	225	1
65 years and over.....	1,261	40	204	1,017	421	6	80	337	7
<b>Female</b> .....	27,691	1,581	6,005	20,105	1,348	477	176	87	361
16 to 19 years.....	2,619	316	298	2,005	19	9	17	1	25
16 and 17 years.....	1,036	242	86	709	10	4	11	1	18
18 and 19 years.....	1,582	74	212	1,296	9	5	7	-	6
20 to 24 years.....	4,494	99	1,019	3,376	78	15	24	1	14
25 to 34 years.....	5,063	136	1,203	3,723	246	66	29	5	49
35 to 44 years.....	5,230	204	1,162	3,864	270	113	45	14	84
45 to 54 years.....	5,828	304	1,342	4,181	332	170	34	19	93
55 to 64 years.....	3,637	335	848	2,453	263	87	17	23	79
55 to 59 years.....	2,204	179	503	1,521	159	59	13	14	47
60 to 64 years.....	1,432	156	344	932	104	28	4	9	31
65 years and over.....	822	186	132	503	139	17	9	24	18

## A-21: Employed persons with a job but not at work by reason, pay status, and sex

(In thousands)

Reason not working	All industries		Nonagricultural industries					
	Oct. 1970	Oct. 1969	Total		Wage and salary workers <sup>1</sup>			
			Oct. 1970	Oct. 1969	Paid absence <sup>2</sup>		Unpaid absence <sup>2</sup>	
					Oct. 1970	Oct. 1969	Oct. 1970	Oct. 1969
<b>Total</b> .....	3,674	3,206	3,551	3,106	1,512	1,556	1,678	1,284
Vacation .....	1,376	1,311	1,351	1,296	1,044	1,033	217	175
Illness .....	1,238	1,217	1,206	1,178	374	401	706	675
Bad weather .....	65	43	32	28	-	-	-	-
Industrial dispute .....	361	71	361	71	-	-	-	-
All other reasons .....	634	564	602	532	93	122	754	434
<b>Male</b> .....	2,249	2,025	2,133	1,931	993	1,092	925	677
Vacation .....	902	901	881	889	730	741	107	87
Illness .....	689	759	655	720	210	269	364	390
All other reasons .....	658	365	597	322	54	83	454	200
<b>Female</b> .....	1,425	1,182	1,418	1,175	520	461	754	606
Vacation .....	474	410	470	407	315	291	110	88
Illness .....	550	458	551	459	164	131	342	285
All other reasons .....	401	314	397	309	41	39	302	233

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

## A-22: Persons at work by type of industry and hours of work

October 1970

Hours of work	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total at work .....	75,242	71,971	3,271	100.0	100.0	100.0
1-34 hours .....	19,227	18,177	1,048	25.6	25.3	32.0
1-4 hours .....	748	714	34	1.0	1.0	1.0
5-14 hours .....	3,775	3,501	274	5.0	4.9	8.4
15-29 hours .....	8,651	8,111	539	11.5	11.3	16.5
30-34 hours .....	6,053	5,851	201	8.0	8.1	6.1
35 hours and over .....	56,016	53,793	2,222	74.4	74.7	67.9
35-39 hours .....	4,794	4,631	1163	6.4	6.4	5.0
40 hours .....	29,858	29,523	335	39.7	41.0	10.2
41 hours and over .....	21,364	19,639	1,724	28.4	27.3	52.7
41 to 48 hours .....	8,800	8,520	280	11.7	11.8	8.6
49 to 59 hours .....	6,691	6,320	370	8.9	8.8	11.3
60 hours and over .....	5,873	4,799	1,074	7.8	6.7	32.8
Average hours, total at work .....	39.1	38.7	46.2	-	-	-
Average hours, workers on full-time schedules .....	43.4	42.9	55.3	-	-	-

## A-23: Persons at work 1-34 hours by usual status and reason working part-time

October 1970

(In thousands)

Reasons working part time	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total.....	19,227	7,525	11,702	18,178	7,198	10,980
Economic reasons.....	2,370	1,348	1,022	2,173	1,253	920
Slack work.....	1,256	1,016	240	1,136	932	204
Material shortages or repairs to plant and equipment.....	91	91	--	90	90	--
New job started during week.....	171	171	--	162	162	--
Job terminated during week.....	69	69	--	68	68	--
Could find only part-time work.....	782	--	782	716	--	716
Other reasons.....	16,855	6,176	10,679	16,004	5,944	10,060
Does not want, or unavailable for, full-time work.....	8,646	--	8,646	8,229	--	8,229
Vacation.....	577	577	--	571	571	--
Illness.....	1,715	1,451	264	1,625	1,430	195
Bad weather.....	549	549	--	398	398	--
Industrial dispute.....	39	39	--	38	38	--
Legal or religious holiday.....	2,403	2,403	--	2,402	2,402	--
Full time for this job.....	1,267	--	1,267	1,211	--	1,211
All other reasons.....	1,660	1,158	502	1,529	1,105	424
Average hours:						
Economic reasons.....	22.2	24.7	19.0	22.4	24.9	19.1
Other reasons.....	21.2	27.3	17.6	21.3	27.5	17.6
Worked 30 to 34 hours:						
Economic reasons.....	765	583	182	724	559	165
Other reasons.....	5,288	3,792	1,496	5,127	3,723	1,404

A-24: Nonagricultural workers by industry and full- or part-time status  
October 1970

Industry	Percent distribution							Average hours, total at work	Average hours, workers on full-time schedules
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules					
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total <sup>1/</sup> .....	100.0	3.0	14.0	82.9	55.7	11.8	15.4	38.7	42.9
Wage and salary workers.....	100.0	3.0	13.7	83.3	58.0	12.0	13.3	38.3	42.2
Construction.....	100.0	5.9	4.0	89.9	66.9	10.5	12.5	38.5	40.5
Manufacturing.....	100.0	3.5	3.1	93.4	68.0	13.7	11.7	40.4	41.6
Durable goods.....	100.0	2.5	2.3	95.2	70.3	13.1	11.8	40.8	41.7
Nondurable goods.....	100.0	4.8	4.2	91.0	64.9	14.4	11.7	39.8	41.6
Transportation and public utilities.....	100.0	2.4	6.6	91.0	63.4	12.5	15.1	40.6	42.7
Wholesale and retail trade.....	100.0	2.8	24.6	72.5	42.9	13.9	15.7	36.9	43.7
Finance, insurance, and real estate.....	100.0	1.1	9.5	89.4	65.4	10.3	13.7	38.8	41.1
Service industries.....	100.0	3.2	24.1	72.7	49.7	9.8	13.2	35.8	42.8
Private households.....	100.0	11.8	52.7	35.4	22.2	5.1	8.1	24.9	44.6
All other service.....	100.0	2.3	21.1	76.6	52.6	10.3	13.7	36.9	42.7
Public administration.....	100.0	.8	5.5	93.7	72.9	9.2	11.6	39.9	41.3
Self-employed workers.....	100.0	2.9	15.6	81.5	28.2	10.9	42.4	45.0	51.2
Unpaid family workers.....	100.0	1.3	38.9	59.7	25.8	5.8	28.1	39.0	50.2

<sup>1/</sup> Mining not shown separately but included in totals.

**A-25: Persons at work in nonagricultural industries by full- or part-time status,  
sex, age, color, and marital status**

October 1970

Age, sex, color and marital status	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		
				(In thousands)				
<b>TOTAL</b>								
Total, 16 years and over.....	71,791	2,173	10,060	59,738	40,099	19,639	38.7	42.9
16 to 21 years .....	8,666	437	3,575	4,654	3,634	1,020	29.0	40.2
16 to 19 years .....	5,352	270	2,915	2,167	1,688	479	25.4	40.2
16 and 17 years .....	2,186	69	1,834	283	228	55	17.4	38.4
18 and 19 years .....	3,166	201	1,081	1,884	1,461	423	31.0	40.4
20 years and over .....	66,619	1,903	7,145	57,571	38,411	19,160	39.8	43.0
20 to 24 years .....	9,264	376	1,302	7,586	5,580	2,006	37.1	41.2
25 years and over .....	57,355	1,526	5,843	49,986	32,833	17,153	40.2	43.3
25 to 44 years .....	30,130	744	2,662	26,724	17,251	9,473	40.8	43.5
45 to 64 years .....	24,780	695	2,190	21,895	14,717	7,178	40.4	42.9
65 years and over .....	2,445	88	992	1,365	862	503	31.9	43.8
<b>Males, 16 years and over</b> .....	43,873	1,060	3,263	39,550	23,820	15,730	41.7	44.2
16 to 21 years .....	4,312	218	1,779	2,315	1,611	704	30.1	41.6
16 to 19 years .....	2,762	153	1,495	1,114	769	345	26.5	41.5
16 and 17 years .....	1,163	53	944	166	120	46	18.8	40.1
18 and 19 years .....	1,600	100	550	950	650	300	32.0	41.7
20 years and over .....	41,110	908	1,769	38,433	23,048	15,385	42.7	44.3
20 to 24 years .....	4,870	177	557	4,136	2,686	1,450	39.2	42.8
25 years and over .....	36,239	732	1,211	34,296	20,361	13,935	43.2	44.5
25 to 44 years .....	19,631	382	321	18,928	10,885	8,043	44.1	44.9
45 to 64 years .....	15,045	299	316	14,430	8,891	5,539	43.1	44.0
65 years and over .....	1,563	52	574	937	586	351	32.8	43.6
<b>Females, 16 years and over</b> .....	28,098	1,113	6,797	20,188	16,279	3,909	34.1	40.3
16 to 21 years .....	4,355	218	1,797	2,340	2,023	317	27.9	38.9
16 to 19 years .....	2,590	118	1,420	1,052	918	134	24.3	38.8
16 and 17 years .....	1,023	16	890	117	109	8	15.8	35.9
18 and 19 years .....	1,566	102	530	934	811	123	29.9	39.2
20 years and over .....	25,508	995	5,377	19,136	15,361	3,775	35.1	40.3
20 to 24 years .....	4,394	200	745	3,449	2,894	555	34.8	39.4
25 years and over .....	21,114	796	4,633	15,685	12,464	3,221	35.2	40.5
25 to 44 years .....	10,498	362	2,340	7,796	6,367	1,429	34.6	40.0
45 to 64 years .....	9,735	396	1,873	7,466	5,828	1,638	36.2	40.9
65 years and over .....	882	37	419	426	273	153	30.2	44.3
<b>COLOR</b>								
White .....	64,310	1,723	9,167	53,420	35,098	18,322	38.9	43.1
Male .....	39,636	842	3,004	35,790	21,006	14,784	41.9	44.5
Female .....	24,675	881	6,163	17,631	14,094	3,537	34.0	40.3
Negro and other races .....	7,660	450	893	6,317	5,000	1,317	37.4	41.3
Male .....	4,237	217	259	3,761	2,815	946	39.5	42.2
Female .....	3,423	232	634	2,557	2,185	372	34.8	39.9
<b>MARITAL STATUS</b>								
Male:								
Married, wife present .....	34,403	624	1,037	32,742	19,170	13,572	43.4	44.5
Widowed, divorced, or separated .....	2,298	115	149	2,034	1,281	753	41.2	43.9
Single (never married) .....	7,172	321	2,077	4,774	3,370	1,404	33.8	42.3
Female:								
Married, husband present .....	16,643	626	4,117	11,900	9,665	2,235	34.2	40.1
Widowed, divorced, or separated .....	5,241	267	796	4,178	3,207	971	36.9	41.2
Single (never married) .....	6,214	219	1,883	4,112	3,410	702	31.4	39.7

**A-25: Persons at work in nonagricultural industries by full- or part-time status, sex, age, color, and marital status--Continued**  
October 1970

Age, sex, color and marital status	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules		
				Total	40 hours or less	41 hours or more
(Percent distribution)						
<b>TOTAL</b>						
Total, 16 years and over.....	100.0	3.0	14.0	83.0	55.6	27.3
16 to 21 years.....	100.0	5.0	41.3	53.7	41.9	11.7
16 to 19 years.....	100.0	5.0	54.5	40.5	31.5	3.9
16 and 17 years.....	100.0	3.2	63.9	12.9	10.4	2.5
18 and 19 years.....	100.0	6.3	34.1	59.5	46.1	13.4
20 years and over.....	100.0	2.9	10.7	86.4	57.7	28.8
20 to 24 years.....	100.0	4.1	14.1	81.9	60.2	21.7
25 years and over.....	100.0	2.7	10.2	87.2	57.2	29.0
25 to 44 years.....	100.0	2.5	8.8	88.7	57.3	31.4
45 to 64 years.....	100.0	2.8	8.8	88.4	59.4	29.0
65 years and over.....	100.0	3.6	40.6	55.8	35.3	20.6
<b>Males, 16 years and over.....</b>	<b>100.0</b>	<b>2.4</b>	<b>7.4</b>	<b>90.1</b>	<b>54.3</b>	<b>34.9</b>
16 to 21 years.....	100.0	5.1	41.3	53.7	37.4	16.3
16 to 19 years.....	100.0	5.5	54.1	40.3	27.8	12.5
16 and 17 years.....	100.0	4.6	81.2	14.3	10.3	4.0
18 and 19 years.....	100.0	6.3	34.4	59.4	40.6	18.8
20 years and over.....	100.0	2.2	4.3	93.5	55.1	37.4
20 to 24 years.....	100.0	3.6	11.4	84.9	55.2	29.8
25 years and over.....	100.0	2.0	3.3	94.6	56.2	38.5
25 to 44 years.....	100.0	1.9	1.6	96.4	55.4	41.0
45 to 64 years.....	100.0	2.0	2.1	95.9	59.1	36.8
65 years and over.....	100.0	3.3	36.7	59.9	37.5	22.5
<b>Females, 16 years and over.....</b>	<b>100.0</b>	<b>4.0</b>	<b>24.2</b>	<b>71.8</b>	<b>57.9</b>	<b>13.9</b>
16 to 21 years.....	100.0	5.0	41.3	53.7	46.5	7.3
16 to 19 years.....	100.0	4.6	54.8	40.6	35.4	5.2
16 and 17 years.....	100.0	1.6	87.0	11.4	10.7	.8
18 and 19 years.....	100.0	6.5	33.8	59.6	51.8	7.9
20 years and over.....	100.0	3.9	21.1	75.0	60.2	14.8
20 to 24 years.....	100.0	4.6	17.0	78.5	65.9	12.6
25 years and over.....	100.0	3.8	21.9	74.3	59.0	15.3
25 to 44 years.....	100.0	3.4	22.3	74.3	60.6	13.6
45 to 64 years.....	100.0	4.1	19.2	76.7	59.9	16.8
65 years and over.....	100.0	4.2	47.5	48.3	31.0	17.3
<b>COLOR</b>						
White.....	100.0	2.7	14.3	83.1	54.6	28.5
Male.....	100.0	2.1	7.6	90.3	53.0	37.3
Female.....	100.0	3.6	25.0	71.5	57.1	14.3
Negro and other races.....	100.0	5.9	11.7	82.5	65.3	17.2
Male.....	100.0	5.1	6.1	88.8	66.4	22.3
Female.....	100.0	6.8	18.5	74.7	63.8	10.9
<b>MARITAL STATUS</b>						
Male:						
Married, wife present.....	100.0	1.8	3.0	95.2	55.7	39.5
Widowed, divorced, or separated.....	100.0	5.0	6.5	88.5	55.7	32.8
Single (never married).....	100.0	4.5	29.0	66.6	47.0	19.6
Female:						
Married, husband present.....	100.0	3.8	24.7	71.5	58.1	13.4
Widowed, divorced, or separated.....	100.0	5.1	15.2	79.7	61.2	13.5
Single (never married).....	100.0	3.5	30.3	66.2	54.9	11.3



## A-26: Persons at work in nonfarm occupations by full- or part-time status and sex

October 1970

Occupation group and sex	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		
(Thousands of persons)									
<b>TOTAL</b>									
White-collar workers.....	36,671	469	5,202	31,000	20,030	4,096	6,874	39.6	43.6
Professional and technical.....	10,970	96	1,350	9,524	5,965	1,315	2,244	40.1	43.7
Managers, officials, and proprietors.....	8,026	57	301	7,668	3,316	1,248	3,104	47.2	48.5
Clerical workers.....	12,964	203	2,314	10,447	8,823	1,016	608	35.6	39.6
Sales workers.....	4,711	112	1,237	3,362	1,926	517	919	36.8	44.1
Blue-collar workers.....	26,164	1,241	1,776	23,147	16,180	3,621	3,346	39.5	42.0
Craftsmen and foremen.....	9,743	277	325	9,141	6,182	1,503	1,456	41.0	42.3
Operatives.....	13,056	698	884	11,474	8,093	1,739	1,642	39.6	42.1
Nonfarm laborers.....	3,365	265	568	2,532	1,906	379	247	34.6	40.3
Service workers.....	9,458	485	3,135	5,838	4,014	845	979	33.2	43.1
Private household.....	1,515	181	806	528	348	68	112	24.5	43.5
Other service workers.....	7,943	304	2,330	5,309	3,666	777	866	34.9	43.0
<b>MALE</b>									
White-collar workers.....	19,284	148	1,284	17,852	9,377	2,816	5,659	43.9	46.0
Professional and technical.....	6,662	38	438	6,186	3,615	859	1,712	42.9	44.9
Managers, officials, and proprietors.....	6,706	39	169	6,498	2,620	1,098	2,780	48.0	49.0
Clerical workers.....	3,203	37	342	2,824	2,024	443	357	39.1	41.9
Sales workers.....	2,712	34	335	2,343	1,116	416	811	42.0	45.7
Blue-collar workers.....	21,657	852	1,324	19,481	13,079	3,204	3,198	40.2	42.5
Craftsmen and foremen.....	9,379	268	257	8,854	5,977	1,454	1,423	41.1	42.3
Operatives.....	9,051	333	533	8,185	5,262	1,388	1,535	41.2	43.3
Nonfarm laborers.....	3,226	251	534	2,441	1,838	362	241	34.7	40.4
Service workers.....	3,192	72	685	2,435	1,470	385	580	38.5	45.3
Private household.....	38	1	19	18	13	2	3	28.1	46.2
Other service workers.....	3,154	70	666	2,418	1,459	383	576	38.7	45.3
<b>FEMALE</b>									
White-collar workers.....	17,387	321	3,918	13,148	10,654	1,279	1,215	34.9	40.2
Professional and technical.....	4,308	58	911	3,339	2,351	456	532	35.9	41.4
Managers, officials, and proprietors.....	1,320	18	132	1,170	697	150	323	42.9	45.7
Clerical workers.....	9,761	167	1,972	7,622	6,798	573	251	34.4	38.8
Sales workers.....	1,999	77	903	1,019	809	101	109	29.6	40.5
Blue-collar workers.....	4,507	388	452	3,667	3,102	417	148	36.1	39.3
Craftsmen and foremen.....	364	8	67	289	207	49	33	37.0	41.3
Operatives.....	4,004	365	351	3,288	2,829	351	108	36.1	39.1
Nonfarm laborers.....	139	16	33	90	66	17	7	31.5	38.9
Service workers.....	6,266	412	2,450	3,404	2,545	460	399	30.5	41.5
Private household.....	1,477	179	786	512	337	66	109	24.4	43.5
Other service workers.....	4,789	234	1,664	2,891	2,207	394	290	32.4	41.1

## A-26: Persons at work in nonfarm occupations by full- or part-time status and sex--Continued

October 1970

Occupation group and sex	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
(Percent distribution)							
<b>TOTAL</b>							
White-collar workers.....	100.0	1.3	14.2	84.5	54.6	11.2	18.7
Professional and technical.....	100.0	.9	12.3	86.9	54.4	12.0	20.5
Managers, officials, and proprietors.....	100.0	.7	3.8	95.5	41.3	15.5	38.7
Clerical workers.....	100.0	1.6	17.8	80.6	68.1	7.8	4.7
Sales workers.....	100.0	2.4	26.3	71.4	40.9	11.0	19.5
Blue-collar workers.....	100.0	4.7	6.8	88.4	61.8	13.8	12.8
Craftsmen and foremen.....	100.0	2.8	3.3	93.8	63.5	15.4	14.9
Operatives.....	100.0	5.3	6.8	87.9	62.0	13.3	12.6
Nonfarm laborers.....	100.0	7.9	16.9	75.2	56.6	11.3	7.3
Service workers.....	100.0	5.1	33.1	61.7	42.4	8.9	10.4
Private household.....	100.0	11.9	53.2	34.8	22.9	4.5	7.4
Other service workers.....	100.0	3.8	29.3	66.9	46.2	9.8	10.9
<b>MALE</b>							
White-collar workers.....	100.0	.8	6.7	92.5	48.6	14.6	29.3
Professional and technical.....	100.0	.6	6.6	92.8	54.2	12.9	25.7
Managers, officials, and proprietors.....	100.0	.6	2.5	97.0	39.1	16.4	41.5
Clerical workers.....	100.0	1.2	10.7	88.1	63.2	13.8	11.1
Sales workers.....	100.0	1.3	12.4	86.5	41.2	15.3	30.0
Blue-collar workers.....	100.0	3.9	6.1	90.0	60.4	14.8	14.8
Craftsmen and foremen.....	100.0	2.9	2.7	94.9	63.7	15.5	15.1
Operatives.....	100.0	3.7	5.9	90.4	58.1	15.3	17.0
Nonfarm laborers.....	100.0	7.8	16.6	75.7	57.0	11.2	7.5
Service workers.....	100.0	2.3	21.5	76.4	46.1	12.1	18.2
Private household.....	100.0	2.6	50.0	47.4	34.2	5.3	7.9
Other service workers.....	100.0	2.2	21.1	76.7	46.3	12.1	18.3
<b>FEMALE</b>							
White-collar workers.....	100.0	1.8	22.5	75.7	61.3	7.4	7.0
Professional and technical.....	100.0	1.3	21.1	77.5	54.6	10.6	12.3
Managers, officials, and proprietors.....	100.0	1.4	10.0	88.7	52.8	11.4	24.5
Clerical workers.....	100.0	1.7	20.2	78.1	69.6	5.9	2.6
Sales workers.....	100.0	3.9	45.2	51.0	40.5	5.1	5.5
Blue-collar workers.....	100.0	8.6	10.0	81.4	68.8	9.3	3.3
Craftsmen and foremen.....	100.0	2.2	18.4	79.4	56.9	13.5	9.1
Operatives.....	100.0	9.1	8.8	82.1	70.7	8.8	2.7
Nonfarm laborers.....	100.0	10.8	23.7	64.7	47.5	12.2	5.0
Service workers.....	100.0	6.6	39.1	54.3	40.6	7.3	6.4
Private household.....	100.0	12.1	53.2	34.7	22.8	4.5	7.4
Other service workers.....	100.0	4.9	34.7	60.4	46.1	8.2	6.1

## A-27: Employment status of 14- 15 year-olds by sex and color

October 1970

(In thousands)

Employment status	Total			White			Negro and other races		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Civilian noninstitutional population.....	8,021	4,066	3,955	6,884	3,501	3,383	1,137	565	572
Civilian labor force.....	1,319	733	586	1,206	667	539	113	66	47
Employed.....	1,196	653	543	1,113	602	511	83	51	32
Agriculture.....	140	124	16	131	117	14	9	7	2
Nonagricultural industries.....	1,055	529	527	982	485	497	74	44	30
Unemployed.....	123	80	43	93	65	28	30	14	16
Not in labor force.....	6,702	3,333	3,369	5,678	2,834	2,844	1,024	499	525
Keeping house.....	56	11	44	52	11	41	4	-	4
Going to school.....	6,532	3,261	3,271	5,531	2,773	2,758	1,001	488	513
Unable to work.....	5	2	3	3	2	1	2	-	1
All other reasons.....	110	59	51	92	47	45	18	12	6

## A-28: Employed 14- 15 year-olds by sex, class of worker, and major occupation group

October 1970

Characteristics	Thousands of persons			Percent distribution		
	Both sexes	Male	Female	Both sexes	Male	Female
<b>CLASS OF WORKER</b>						
Total.....	1,196	653	543	100.0	100.0	100.0
Nonagricultural industries.....	1,055	529	527	88.3	81.1	97.1
Wage and salary workers.....	960	448	512	80.3	68.7	94.3
Private household workers.....	473	90	383	39.6	13.8	70.5
Government workers.....	31	21	10	2.6	3.2	1.8
Other wage and salary workers.....	456	337	119	38.2	51.7	21.9
Self-employed workers.....	86	72	14	7.2	11.0	2.6
Unpaid family workers.....	9	8	1	.8	1.2	.2
Agriculture.....	140	124	16	11.7	19.0	2.9
Wage and salary workers.....	67	62	5	5.6	9.5	.9
Self-employed workers.....	7	6	1	.6	.9	.2
Unpaid family workers.....	66	56	10	5.5	8.6	1.8
<b>OCCUPATION</b>						
Total.....	1,196	653	543	100.0	100.0	100.0
White-collar workers.....	273	204	69	22.9	31.1	12.9
Professional and technical.....	13	5	8	1.1	.8	1.5
Managers, officials, and proprietors.....	1	1	1	.1	.2	.2
Clerical workers.....	37	13	24	3.1	2.0	4.4
Sales workers.....	221	184	37	18.5	28.2	6.8
Blue-collar workers.....	232	219	13	19.4	33.6	2.4
Craftsmen and foremen.....	10	10	-	.8	1.5	-
Operatives.....	55	49	7	4.6	7.5	1.3
Nonfarm laborers.....	167	160	7	14.0	24.5	1.1
Service workers.....	565	119	447	47.3	18.3	82.2
Private household workers.....	402	22	380	33.7	3.4	69.9
Other service workers.....	163	97	67	13.7	14.9	12.3
Farm workers.....	125	111	14	10.5	17.0	2.6
Farmers and farm managers.....	2	2	-	.2	.3	-
Farm laborers and foremen.....	123	109	14	10.3	16.7	2.6

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**

**A-29: Employment status of the noninstitutional population by sex and age, seasonally adjusted**

(In thousands)

Employment status, sex, and age	1970										1969		
	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>Total</b>													
Total labor force . . . . .	86,432	86,140	85,810	85,967	85,304	85,783	86,143	86,087	85,590	85,599	85,023	84,872	85,051
Civilian labor force . . . . .	83,353	83,031	82,676	82,813	82,125	82,555	82,872	82,769	82,249	82,213	81,583	81,379	81,523
Employed . . . . .	78,686	78,424	78,445	78,638	78,225	78,449	78,924	79,112	78,822	79,041	78,737	78,528	78,445
Agriculture . . . . .	3,288	3,399	3,420	3,519	3,554	3,613	3,586	3,550	3,499	3,426	3,435	3,434	3,446
Nonagricultural industries . . . . .	75,398	75,025	75,025	75,119	74,671	74,836	75,338	75,562	75,323	75,615	75,302	75,094	74,999
On part time for economic reasons . . . . .	2,423	2,110	2,298	2,326	2,105	2,249	2,360	1,936	1,821	1,915	1,858	1,830	1,945
Usually work full time . . . . .	1,342	1,029	1,329	1,240	1,126	1,253	1,400	1,093	1,044	1,036	1,046	1,005	1,017
Usually work part time . . . . .	1,081	1,081	969	1,086	979	996	960	843	777	879	812	825	928
Unemployed . . . . .	4,667	4,607	4,231	4,175	3,900	4,106	3,948	3,657	3,427	3,172	2,846	2,851	3,078
<b>Men, 20 years and over</b>													
Total labor force . . . . .	50,173	50,136	49,905	50,024	49,906	50,020	50,032	49,920	49,707	49,736	49,534	49,544	49,642
Civilian labor force . . . . .	47,502	47,439	47,178	47,294	47,154	47,226	47,199	47,060	46,836	46,826	46,578	46,531	46,599
Employed . . . . .	45,538	45,522	45,424	45,524	45,521	45,593	45,667	45,709	45,534	45,674	45,553	45,533	45,511
Agriculture . . . . .	2,451	2,510	2,523	2,593	2,603	2,625	2,602	2,537	2,479	2,473	2,499	2,482	2,575
Nonagricultural industries . . . . .	43,087	43,012	42,901	42,931	42,918	42,968	43,065	43,172	43,055	43,201	43,054	43,051	42,936
Unemployed . . . . .	1,964	1,917	1,754	1,770	1,633	1,633	1,532	1,351	1,302	1,152	1,025	998	1,088
<b>Women, 20 years and over</b>													
Civilian labor force . . . . .	28,534	28,200	28,447	28,500	28,026	27,885	28,274	28,295	28,066	28,073	27,875	27,671	27,767
Employed . . . . .	27,082	26,750	27,092	27,073	26,772	26,476	27,022	27,016	26,925	27,060	26,897	26,663	26,699
Agriculture . . . . .	505	507	514	545	573	567	571	583	630	586	585	555	554
Nonagricultural industries . . . . .	26,577	26,243	26,578	26,528	26,199	25,909	26,451	26,433	26,295	26,474	26,312	26,108	26,145
Unemployed . . . . .	1,452	1,450	1,355	1,427	1,254	1,409	1,252	1,279	1,141	1,013	978	1,008	1,068
<b>Both sexes, 16-19 years</b>													
Civilian labor force . . . . .	7,317	7,392	7,051	7,019	6,945	7,444	7,399	7,414	7,347	7,314	7,130	7,177	7,157
Employed . . . . .	6,066	6,152	5,929	6,041	5,932	6,380	6,235	6,387	6,363	6,307	6,287	6,332	6,235
Agriculture . . . . .	332	382	383	381	378	421	413	430	390	367	351	397	317
Nonagricultural industries . . . . .	5,734	5,770	5,546	5,660	5,554	5,959	5,822	5,957	5,973	5,940	5,936	5,935	5,918
Unemployed . . . . .	1,251	1,240	1,122	978	1,013	1,064	1,164	1,027	984	1,007	843	845	922

**NOTE:** Because of the independent seasonal adjustment of the various series, detail for the household data shown in tables A-29 through A-36 will not necessarily add to totals.

**A-30: Full- and part-time status of the civilian labor force by sex and age, seasonally adjusted**

(Numbers in thousands)

Full- and part-time employment status, sex, and age	1970										1969		
	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>Full time</b>													
Total, 16 years and over:													
Civilian labor force . . . . .	71,608	71,445	71,086	71,132	70,653	71,116	70,810	70,557	70,407	70,623	70,269	70,184	70,190
Employed . . . . .	68,048	67,900	67,778	67,855	67,585	67,742	67,720	67,707	67,781	68,235	68,017	68,039	68,010
Unemployed . . . . .	3,560	3,545	3,308	3,277	3,068	3,374	3,090	2,850	2,626	2,388	2,252	2,145	2,180
Unemployment rate . . . . .	5.0	5.0	4.7	4.6	4.3	4.7	4.4	4.0	3.7	3.4	3.2	3.1	3.1
Men, 20 years and over:													
Civilian labor force . . . . .	45,209	45,120	44,896	45,042	44,966	45,061	44,898	44,715	44,536	44,604	44,486	44,420	44,447
Employed . . . . .	43,448	43,403	43,339	43,403	43,476	43,554	43,487	43,460	43,348	43,561	43,506	43,515	43,539
Unemployed . . . . .	1,761	1,717	1,557	1,639	1,490	1,507	1,411	1,255	1,188	1,043	980	905	908
Unemployment rate . . . . .	3.9	3.8	3.5	3.6	3.3	3.3	3.1	2.8	2.7	2.3	2.2	2.0	2.8
Women, 20 years and over:													
Civilian labor force . . . . .	22,436	22,233	22,439	22,295	22,050	21,937	22,054	21,982	21,965	22,146	21,813	21,852	21,862
Employed . . . . .	21,303	21,102	21,309	21,211	21,046	20,736	21,042	20,982	21,087	21,332	21,089	21,096	21,059
Unemployed . . . . .	1,133	1,131	1,130	1,084	1,004	1,201	1,012	1,000	878	814	724	756	803
Unemployment rate . . . . .	5.0	5.1	5.0	4.9	4.6	5.5	4.6	4.5	4.0	3.7	3.3	3.5	3.7
<b>Part time</b>													
Total, 16 years and over:													
Civilian labor force . . . . .	11,680	11,641	11,944	11,640	11,455	11,425	11,949	11,958	11,634	11,803	11,360	11,261	11,314
Employed . . . . .	10,719	10,638	10,984	10,775	10,685	10,689	11,064	11,109	10,828	10,946	10,677	10,580	10,539
Unemployed . . . . .	961	1,003	960	865	770	736	885	849	806	857	683	681	775
Unemployment rate . . . . .	8.2	8.6	8.0	7.4	6.7	6.4	7.4	7.1	6.9	7.3	6.0	6.0	6.9

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

## HOUSEHOLD DATA SEASONALLY ADJUSTED

**A-31: Employment status by color, sex, and age, seasonally adjusted**  
(In thousands)

Characteristics	1970										1969		
	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>White</b>													
<b>Total:</b>													
Civilian labor force .....	74,223	73,788	73,332	73,454	72,770	73,358	73,662	73,621	73,169	73,159	72,589	72,392	72,447
Employed .....	70,345	70,023	69,838	70,008	69,681	69,998	70,499	70,617	70,406	70,558	70,266	70,093	69,930
Unemployed .....	3,878	3,765	3,494	3,446	3,089	3,360	3,163	3,004	2,763	2,601	2,323	2,299	2,517
Unemployment rate .....	5.2	5.1	4.8	4.7	4.2	4.6	4.3	4.1	3.8	3.6	3.2	3.2	3.5
<b>Males, 20 years and over:</b>													
Civilian labor force .....	42,757	42,640	42,407	42,462	42,411	42,480	42,498	42,407	42,194	42,133	41,953	41,959	41,956
Employed .....	41,076	41,061	40,923	40,974	41,039	41,123	41,232	41,260	41,115	41,165	41,122	41,130	41,022
Unemployed .....	1,681	1,579	1,484	1,488	1,372	1,357	1,266	1,147	1,079	968	831	829	934
Unemployment rate .....	3.9	3.7	3.5	3.5	3.2	3.2	3.0	2.7	2.6	2.3	2.0	2.0	2.2
<b>Females, 20 years and over:</b>													
Civilian labor force .....	24,923	24,516	24,700	24,775	24,275	24,259	24,601	24,599	24,437	24,504	24,243	24,053	24,174
Employed .....	23,728	23,346	23,583	23,584	23,278	23,139	23,623	23,576	23,520	23,665	23,429	23,245	23,308
Unemployed .....	1,195	1,170	1,117	1,191	997	1,120	978	1,023	917	839	814	808	866
Unemployment rate .....	4.8	4.8	4.5	4.8	4.1	4.6	4.0	4.2	3.8	3.4	3.4	3.4	3.6
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force .....	6,543	6,632	6,225	6,217	6,084	6,619	6,563	6,615	6,538	6,522	6,393	6,380	6,317
Employed .....	5,541	5,616	5,332	5,450	5,364	5,736	5,644	5,781	5,771	5,728	5,715	5,718	5,600
Unemployed .....	1,002	1,016	893	767	720	883	919	834	767	794	678	662	717
Unemployment rate .....	15.3	15.3	14.3	12.3	11.8	13.3	14.0	12.6	11.7	12.2	10.6	10.4	11.8
<b>Negro and other races</b>													
<b>Total:</b>													
Civilian labor force .....	9,086	9,124	9,263	9,243	9,231	9,235	9,213	9,253	9,160	9,259	9,115	9,042	9,011
Employed .....	8,241	8,302	8,488	8,480	8,427	8,500	8,414	8,598	8,520	8,675	8,598	8,484	8,419
Unemployed .....	845	822	775	763	804	735	799	655	640	584	517	558	592
Unemployment rate .....	9.3	9.0	8.4	8.3	8.7	8.0	8.7	7.1	7.0	6.3	5.7	6.2	6.6
<b>Males, 20 years and over:</b>													
Civilian labor force .....	4,729	4,765	4,776	4,790	4,734	4,729	4,656	4,693	4,675	4,731	4,657	4,602	4,607
Employed .....	4,395	4,447	4,507	4,499	4,448	4,455	4,399	4,484	4,461	4,550	4,480	4,430	4,424
Unemployed .....	334	318	269	291	286	274	257	209	214	181	177	172	183
Unemployment rate .....	7.1	6.7	5.6	6.1	6.0	5.8	5.5	4.5	4.6	3.8	3.8	3.7	4.0
<b>Females, 20 years and over:</b>													
Civilian labor force .....	3,586	3,614	3,689	3,655	3,682	3,669	3,713	3,715	3,656	3,676	3,664	3,608	3,576
Employed .....	3,329	3,346	3,419	3,412	3,425	3,403	3,421	3,466	3,440	3,497	3,502	3,412	3,373
Unemployed .....	257	268	270	243	257	266	292	249	216	179	162	196	203
Unemployment rate .....	7.2	7.4	7.3	6.6	7.0	7.2	7.9	6.7	5.9	4.9	4.4	5.4	5.7
<b>Both sexes, 16 to 19 years:</b>													
Civilian labor force .....	771	745	798	798	815	837	844	845	829	852	794	832	828
Employed .....	517	509	562	569	554	642	594	648	619	628	616	642	622
Unemployed .....	254	236	236	229	261	195	250	197	210	224	178	190	206
Unemployment rate .....	32.9	31.7	29.6	28.7	32.0	23.3	29.6	23.3	25.3	26.3	22.4	22.8	24.9

**A-32: Unemployed persons by duration of unemployment, seasonally adjusted**

(In thousands)

Duration of unemployment	1970										1969		
	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
Less than 5 weeks .....	2,447	2,331	2,206	2,061	1,961	2,219	2,295	1,995	1,973	1,756	1,515	1,558	1,882
5 to 14 weeks .....	1,507	1,501	1,320	1,334	1,303	1,214	1,075	1,154	1,016	914	893	912	882
15 weeks and over .....	745	792	736	711	685	612	569	545	465	409	392	389	363
15 to 26 weeks .....	496	501	479	470	450	352	372	363	306	276	272	249	233
27 weeks and over .....	249	291	257	241	235	260	197	182	159	133	120	140	130
Average (mean) duration .....	8.3	8.9	8.8	9.3	9.5	9.0	8.2	8.4	8.1	7.8	8.1	8.0	7.3

**HOUSEHOLD DATA  
SEASONALLY ADJUSTED**

**A-33: Major unemployment indicators, seasonally adjusted**

(Unemployment rates)

Selected categories	1970										1969		
	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
Total (all civilian workers) . . . . .	5.6	5.5	5.1	5.0	4.7	5.0	4.8	4.4	4.2	3.9	3.5	3.5	3.8
Men, 20 years and over . . . . .	4.1	4.0	3.7	3.7	3.5	3.5	3.2	2.9	2.8	2.5	2.2	2.1	2.3
Women, 20 years and over . . . . .	5.1	5.1	4.8	5.0	4.5	5.1	4.4	4.5	4.1	3.6	3.5	3.6	3.8
Both sexes, 16-19 years . . . . .	17.1	16.8	15.9	13.9	14.6	14.3	15.7	13.9	13.4	13.8	11.8	11.8	12.9
White . . . . .	5.2	5.1	4.8	4.7	4.2	4.6	4.3	4.1	3.8	3.6	3.2	3.2	3.5
Negro and other races . . . . .	9.3	9.0	8.4	8.3	8.7	8.0	8.7	7.1	7.0	6.3	5.7	6.2	6.6
Married men . . . . .	3.1	2.9	2.8	2.7	2.5	2.6	2.4	2.2	2.0	1.8	1.7	1.5	1.6
Full-time workers . . . . .	5.0	5.0	4.7	4.6	4.3	4.7	4.4	4.0	3.7	3.4	3.2	3.1	3.1
Part-time workers . . . . .	8.2	8.6	8.0	7.4	6.7	6.4	7.4	7.1	6.9	7.3	6.0	6.0	6.9
Unemployed 15 weeks and over <sup>1</sup> . . . . .	.9	1.0	.9	.9	.8	.7	.7	.7	.6	.5	.5	.5	.4
State insured <sup>2</sup> . . . . .	4.4	4.2	3.7	3.5	3.7	3.6	3.1	2.7	2.7	2.5	2.4	2.3	2.2
Labor force time lost <sup>3</sup> . . . . .	6.2	6.0	5.5	5.4	4.9	5.4	5.1	4.8	4.5	4.2	3.9	4.0	4.3
<b>Occupation</b>													
White-collar workers . . . . .	3.2	2.8	2.7	3.1	2.6	2.8	2.9	2.7	2.3	2.1	2.1	2.1	2.4
Professional and technical . . . . .	2.0	1.9	1.9	2.2	1.5	2.1	2.1	2.3	1.7	1.5	1.8	1.2	1.6
Managers, officials, and proprietors . . . . .	1.4	1.5	1.3	1.7	1.5	1.1	1.2	1.2	1.0	.9	1.0	.9	.9
Clerical workers . . . . .	4.7	3.9	3.9	4.4	4.0	3.9	4.0	3.6	3.2	3.1	2.8	3.5	3.4
Sales workers . . . . .	4.3	3.9	4.0	4.0	3.4	4.4	4.1	3.5	3.4	2.8	2.6	2.2	3.5
Blue-collar workers . . . . .	7.2	7.5	7.0	6.6	6.3	6.2	5.7	5.2	5.0	4.6	4.3	4.2	4.2
Craftsmen and foremen . . . . .	4.1	5.8	4.4	4.4	4.0	4.2	3.5	3.1	2.5	2.3	2.3	2.1	2.4
Operatives . . . . .	8.5	7.6	7.9	7.2	6.8	6.7	6.3	6.2	6.0	5.1	5.0	4.9	4.9
Nonfarm laborers . . . . .	10.7	11.7	10.2	9.9	10.4	9.1	8.8	7.4	7.7	8.5	7.4	6.9	6.5
Service workers . . . . .	5.8	5.8	5.5	5.3	5.0	4.9	5.0	4.9	4.8	4.5	3.6	4.0	4.2
Farm workers . . . . .	2.9	4.1	2.8	2.7	2.0	3.5	2.1	2.3	1.9	2.1	2.1	1.4	1.8
<b>Industry</b>													
Private wage and salary workers <sup>4</sup> . . . . .	6.0	6.0	5.5	5.6	5.2	5.2	4.8	4.6	4.3	3.9	3.6	3.6	3.8
Construction . . . . .	11.9	13.8	12.2	11.0	10.9	11.9	8.1	8.1	7.9	7.1	6.0	5.4	7.3
Manufacturing . . . . .	6.7	6.1	5.7	6.0	5.3	5.2	4.7	4.7	4.6	3.8	3.8	3.7	3.6
Durable goods . . . . .	7.1	6.3	5.5	5.9	5.1	4.9	4.9	4.8	4.7	3.8	3.7	3.6	3.2
Nondurable goods . . . . .	6.1	5.8	5.9	6.2	5.6	5.7	4.5	4.6	4.4	3.8	3.9	3.9	4.2
Transportation and public utilities . . . . .	3.5	2.8	3.1	3.3	3.3	3.3	3.9	3.1	2.4	2.9	2.4	2.4	2.9
Wholesale and retail trade . . . . .	5.9	6.0	5.4	5.3	5.4	5.1	5.5	4.7	4.7	4.3	3.9	3.9	4.2
Finance and service industries . . . . .	4.5	5.0	4.4	4.8	4.1	4.2	3.9	4.0	3.2	3.1	2.7	3.2	3.1
Government wage and salary workers . . . . .	2.6	1.9	2.1	2.0	1.9	2.2	2.2	2.1	2.0	2.2	2.0	2.1	2.4
Agricultural wage and salary workers . . . . .	8.4	10.2	8.2	8.6	5.5	9.3	5.9	6.4	5.8	6.2	6.5	5.2	6.3

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

<sup>2</sup>Insured unemployment under State programs as a percent of average covered employment.

<sup>3</sup>Man-hours lost by the unemployed and persons on part time for economic reasons as a percent of potentially available labor force man-hours.

<sup>4</sup>Includes mining, not shown separately.

## HOUSEHOLD DATA SEASONALLY ADJUSTED

### A-34: Rates of unemployment by sex and age, seasonally adjusted

Sex and age	1970										1969		
	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>Total, 16 years and over</b> .....	5.6	5.5	5.1	5.0	4.7	5.0	4.8	4.4	4.2	3.9	3.5	3.5	3.8
16 to 19 years.....	17.1	16.8	15.9	13.9	14.6	14.3	15.7	13.9	13.4	13.8	11.8	11.8	12.9
16 and 17 years.....	20.1	19.6	17.4	15.2	16.0	15.6	18.7	15.7	16.3	17.2	13.7	14.3	16.5
18 and 19 years.....	15.1	14.6	14.7	13.2	13.3	13.8	13.8	12.4	11.7	11.6	10.2	9.2	10.4
20 to 24 years.....	9.5	9.8	8.3	8.6	7.4	8.1	7.7	6.8	7.3	6.1	5.8	5.8	6.4
25 years and over.....	3.7	3.5	3.4	3.5	3.2	3.3	3.1	3.0	2.6	2.4	2.2	2.2	2.4
25 to 54 years.....	3.9	3.6	3.6	3.7	3.3	3.4	3.2	3.1	2.7	2.5	2.3	2.1	2.4
55 years and over.....	3.1	3.1	2.7	2.9	3.0	3.3	2.8	2.7	2.4	2.0	2.1	1.9	2.3
<b>Males, 16 years and over</b> .....	5.1	5.0	4.6	4.5	4.3	4.4	4.2	3.6	3.6	3.3	2.9	2.9	3.1
16 to 19 years.....	17.1	16.7	15.8	14.1	14.8	15.0	15.2	12.5	13.0	12.6	11.0	11.7	11.8
16 and 17 years.....	19.9	19.6	17.2	15.2	16.6	16.4	17.2	14.6	15.4	14.9	13.1	13.7	14.4
18 and 19 years.....	15.0	14.1	14.6	13.6	13.2	14.6	13.9	10.8	11.0	10.8	9.3	8.9	9.6
20 to 24 years.....	11.3	11.0	8.5	9.1	7.2	7.7	7.9	6.4	6.9	6.1	5.5	5.3	6.3
25 years and over.....	3.2	3.0	3.0	3.0	2.9	2.9	2.6	2.4	2.2	2.0	1.8	1.7	1.9
25 to 54 years.....	3.3	2.9	3.0	3.0	2.9	2.8	2.6	2.3	2.1	2.0	1.7	1.4	1.8
55 years and over.....	3.1	3.1	2.9	2.8	2.8	3.1	2.8	2.8	2.4	2.1	2.2	1.9	2.2
<b>Females, 16 years and over</b> .....	6.3	6.4	5.9	5.9	5.5	5.9	5.7	5.7	5.1	4.8	4.5	4.5	4.9
16 to 19 years.....	17.1	16.9	16.0	13.7	14.3	13.4	16.4	15.6	13.9	15.2	12.8	11.9	14.2
16 and 17 years.....	20.4	19.6	17.6	15.1	15.3	14.6	20.6	17.0	17.3	20.3	14.7	15.0	19.2
18 and 19 years.....	15.2	15.1	14.9	12.7	13.4	12.9	13.7	14.3	12.7	12.4	11.2	9.6	11.3
20 to 24 years.....	7.5	8.4	8.0	8.1	7.7	8.7	7.5	7.2	7.6	6.2	6.1	6.5	6.5
25 years and over.....	4.7	4.4	4.1	4.5	3.8	4.2	3.8	4.0	3.3	3.0	3.0	3.1	3.4
25 to 54 years.....	5.1	4.8	4.6	4.8	4.1	4.3	4.2	4.4	3.6	3.3	3.3	3.4	3.6
55 years and over.....	3.2	3.2	2.5	3.1	3.2	3.6	2.7	2.5	2.3	1.7	1.9	2.0	2.5

### A-35: Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

Reason for unemployment	1970										1969		
	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>Number of unemployed</b>													
Lost last job.....	2,137	2,048	1,946	1,833	1,928	1,912	1,613	1,503	1,390	1,202	1,170	1,033	1,010
Left last job.....	573	556	570	600	569	550	573	466	473	460	455	426	411
Reentered labor force.....	1,238	1,371	1,296	1,284	1,036	1,168	1,207	1,225	1,089	1,106	916	999	1,079
Never worked before.....	569	572	495	439	468	464	550	479	477	509	358	358	462
<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
Lost last job.....	47.3	45.0	45.2	44.1	48.2	46.7	40.9	40.9	40.5	36.7	40.4	36.7	34.1
Left last job.....	12.7	12.2	13.2	14.4	14.2	13.4	14.5	12.7	13.8	14.0	15.7	15.1	13.9
Reentered labor force.....	27.4	30.2	30.1	30.9	25.9	28.5	30.6	33.4	31.8	33.8	31.6	35.5	36.4
Never worked before.....	12.6	12.6	11.5	10.6	11.7	11.3	13.9	13.0	13.9	15.5	12.3	12.7	15.6
<b>Unemployed as a percent of the civilian labor force</b>													
Lost last job.....	2.6	2.5	2.3	2.1	2.3	2.3	1.9	1.8	1.7	1.5	1.4	1.3	1.2
Left last job.....	.7	.7	.7	.8	.7	.7	.7	.6	.6	.6	.6	.5	.5
Reentered labor force.....	1.5	1.7	1.5	1.6	1.3	1.4	1.5	1.5	1.3	1.3	1.1	1.2	1.3
Never worked before.....	.7	.7	.6	.9	.6	.6	.7	.6	.6	.6	.5	.4	.6

**HOUSEHOLD DATA**  
**SEASONALLY ADJUSTED**

**A-36: Employed persons by sex and age, seasonally adjusted**

(In thousands)

Sex and age	1970											1969	
	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>Total</b>													
16 years and over .....	78,686	78,424	78,445	78,638	78,225	78,449	78,924	79,112	78,822	79,041	78,737	78,528	78,445
16 to 19 years .....	6,066	6,152	5,929	6,041	5,932	6,380	6,235	6,387	6,363	6,307	6,287	6,332	6,235
16 and 17 years .....	2,513	2,588	2,519	2,532	2,484	2,686	2,656	2,774	2,760	2,713	2,667	2,707	2,625
18 and 19 years .....	3,545	3,558	3,380	3,467	3,440	3,672	3,590	3,654	3,634	3,647	3,660	3,654	3,598
20 to 24 years .....	9,946	9,878	9,803	9,745	9,588	9,593	9,583	9,593	9,538	9,644	9,441	9,506	9,457
25 years and over .....	62,699	62,411	62,694	62,787	62,626	62,557	63,078	63,134	62,970	63,132	62,998	62,709	62,770
25 to 54 years .....	48,564	48,406	48,621	48,658	48,607	48,558	48,909	48,846	48,821	49,043	48,945	48,619	48,600
55 years and over .....	14,051	13,950	14,041	14,045	13,965	13,980	14,188	14,326	14,203	14,223	14,117	14,075	14,096
<b>Male</b>													
16 years and over .....	48,864	48,899	48,662	48,855	48,778	49,081	49,099	49,313	49,058	49,204	49,055	49,067	48,949
16 to 19 years .....	3,326	3,377	3,238	3,331	3,257	3,488	3,432	3,604	3,524	3,530	3,502	3,534	3,438
16 and 17 years .....	1,425	1,492	1,446	1,489	1,445	1,519	1,529	1,601	1,558	1,580	1,550	1,600	1,536
18 and 19 years .....	1,905	1,892	1,772	1,812	1,809	1,954	1,896	2,027	1,984	1,974	1,987	1,954	1,905
20 to 24 years .....	5,303	5,326	5,260	5,215	5,188	5,213	5,154	5,146	5,102	5,117	5,093	5,088	5,068
25 years and over .....	40,217	40,207	40,180	40,260	40,288	40,395	40,501	40,567	40,468	40,571	40,500	40,418	40,421
25 to 54 years .....	31,258	31,280	31,206	31,278	31,280	31,328	31,369	31,402	31,352	31,409	31,469	31,353	31,324
55 years and over .....	8,936	8,908	8,952	8,965	8,972	9,073	9,131	9,181	9,148	9,209	9,067	9,076	9,076
<b>Female</b>													
16 years and over .....	29,822	29,525	29,783	29,783	29,447	29,368	29,825	29,799	29,764	29,837	29,682	29,461	29,496
16 to 19 years .....	2,740	2,775	2,691	2,710	2,675	2,892	2,803	2,783	2,839	2,777	2,785	2,798	2,797
16 and 17 years .....	1,088	1,096	1,073	1,043	1,039	1,167	1,127	1,173	1,202	1,133	1,117	1,107	1,089
18 and 19 years .....	1,640	1,666	1,608	1,655	1,631	1,718	1,694	1,627	1,650	1,673	1,673	1,700	1,693
20 to 24 years .....	4,643	4,552	4,543	4,530	4,400	4,380	4,429	4,447	4,436	4,527	4,348	4,418	4,389
25 years and over .....	22,482	22,204	22,514	22,527	22,338	22,162	22,577	22,578	22,502	22,561	22,498	22,291	22,349
25 to 54 years .....	17,306	17,126	17,415	17,380	17,327	17,230	17,540	17,444	17,469	17,634	17,476	17,266	17,276
55 years and over .....	5,115	5,042	5,089	5,080	4,993	4,907	5,057	5,145	5,055	5,014	5,050	4,999	5,020

**A-37: Employed persons by major occupation group, seasonally adjusted**

(In thousands)

Occupation group	1970											1969	
	Oct.	Sept.	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>White-collar workers</b>													
Professional and technical .....	38,167	37,945	37,852	38,019	38,049	37,889	38,006	37,936	37,927	37,950	37,641	37,483	37,406
Managers, officials, and proprietors .....	11,183	11,211	11,280	11,281	11,198	11,023	11,166	11,016	10,966	11,097	11,007	10,887	10,915
Clerical workers .....	8,357	8,221	8,224	8,300	8,285	8,378	8,206	8,268	8,186	8,190	8,164	8,222	8,037
Sales workers .....	13,713	13,647	13,450	13,582	13,696	13,700	13,848	13,884	13,965	13,869	13,699	13,530	13,737
Sales workers .....	4,914	4,866	4,898	4,856	4,870	4,788	4,786	4,768	4,810	4,794	4,771	4,844	4,717
<b>Blue-collar workers</b>													
Craftsmen and foremen .....	27,739	27,559	27,685	27,677	27,441	27,621	27,927	28,192	28,274	28,241	28,323	28,432	28,412
Operatives .....	10,195	10,119	10,042	10,074	10,079	10,036	10,211	10,375	10,268	10,148	10,323	10,258	10,215
Nonfarm laborers .....	13,923	13,755	13,851	13,867	13,790	13,863	14,021	14,018	14,204	14,281	14,268	14,433	14,535
Nonfarm laborers .....	3,621	3,685	3,792	3,736	3,572	3,722	3,695	3,799	3,802	3,812	3,732	3,741	3,662
<b>Service workers</b>													
Farmers and farm laborers .....	9,836	9,956	9,781	9,648	9,544	9,589	9,634	9,729	9,562	9,728	9,688	9,558	9,520
Farmers and farm laborers .....	2,982	3,087	3,057	3,180	3,226	3,266	3,210	3,214	3,160	3,084	3,037	3,087	3,143



## ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

**B-1: Employees on nonagricultural payrolls, by industry division  
1919 to date**  
(In thousands)

Year and month	TOTAL	Mining	Contract construction	Manufacturing	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
						Total	Wholesale trade	Retail trade			Total	Federal	State and local
1919.....	27,088	1,133	1,021	10,659	3,711	4,514	-	-	1,111	2,263	2,676	-	-
1920.....	27,350	1,239	848	10,658	3,998	4,467	-	-	1,175	2,362	2,603	-	-
1921.....	24,382	962	1,012	8,257	3,459	4,589	-	-	1,163	2,412	2,528	-	-
1922.....	25,827	929	1,185	9,120	3,505	4,903	-	-	1,144	2,503	2,538	-	-
1923.....	28,394	1,212	1,229	10,300	3,882	5,290	-	-	1,190	2,684	2,607	-	-
1924.....	28,040	1,101	1,321	9,671	3,807	5,407	-	-	1,231	2,782	2,720	-	-
1925.....	28,778	1,089	1,446	9,939	3,826	5,576	-	-	1,233	2,869	2,800	-	-
1926.....	29,819	1,185	1,555	10,156	3,942	5,784	-	-	1,305	3,046	2,846	-	-
1927.....	29,976	1,114	1,608]	10,001	3,895	5,908	-	-	1,367	3,168	2,915	-	-
1928.....	30,000	1,050	1,606	9,947	3,828	5,874	-	-	1,435	3,265	2,995	-	-
1929.....	31,339	1,087	1,497	10,702	3,916	6,123	-	-	1,509	3,440	3,065	533	2,532
1930.....	29,424	1,009	1,372	9,562	3,685	5,797	-	-	1,475	3,376	3,148	526	2,622
1931.....	26,649	873	1,214	8,170	3,254	5,284	-	-	1,407	3,183	3,264	560	2,704
1932.....	23,628	731	970	6,931	2,816	4,683	-	-	1,341	2,931	3,225	559	2,666
1933.....	23,711	744	809	7,397	2,672	4,755	-	-	1,295	2,873	3,166	565	2,601
1934.....	25,953	883	862	8,501	2,750	5,281	-	-	1,319	3,058	3,299	652	2,647
1935.....	27,053	897	912	9,069	2,786	5,431	-	-	1,335	3,142	3,481	753	2,728
1936.....	29,082	946	1,145	9,827	2,973	5,809	-	-	1,388	3,326	3,668	826	2,842
1937.....	31,026	1,015	1,112	10,794	3,134	6,265	-	-	1,432	3,518	3,756	833	2,923
1938.....	29,209	891	1,055	9,440	2,863	6,179	-	-	1,425	3,473	3,883	829	3,054
1939.....	30,618	854	1,150	10,278	2,936	6,426	1,684	4,742	1,462	3,517	3,995	905	3,090
1940.....	32,376	925	1,294	10,985	3,038	6,750	1,754	4,996	1,502	3,681	4,202	996	3,206
1941.....	36,554	957	1,790	13,192	3,274	7,210	1,873	5,338	1,549	3,921	4,660	1,340	3,320
1942.....	40,125	992	2,170	15,280	3,460	7,118	1,821	5,297	1,538	4,084	5,483	2,213	3,270
1943.....	42,452	925	1,567	17,602	3,647	6,982	1,741	5,241	1,502	4,148	6,080	2,905	3,174
1944.....	41,883	892	1,094	17,328	3,829	7,058	1,762	5,296	1,476	4,163	6,043	2,928	3,116
1945.....	40,394	836	1,132	15,524	3,906	7,314	1,862	5,452	1,497	4,241	5,944	2,808	3,137
1946.....	41,674	862	1,661	14,703	4,061	8,376	2,190	6,186	1,697	4,719	5,595	2,254	3,341
1947.....	43,881	955	1,982	15,545	4,166	8,955	2,361	6,595	1,754	5,050	5,474	1,892	3,582
1948.....	44,891	994	2,169	15,582	4,189	9,272	2,489	6,783	1,829	5,206	5,650	1,863	3,787
1949.....	43,778	930	2,165	14,441	4,001	9,264	2,487	6,778	1,857	5,264	5,856	1,908	3,948
1950.....	45,222	901	2,333	15,241	4,034	9,386	2,518	6,868	1,919	5,382	6,026	1,928	4,098
1951.....	47,849	929	2,603	16,393	4,226	9,742	2,606	7,136	1,991	5,576	6,389	2,302	4,087
1952.....	48,825	898	2,634	16,632	4,248	10,004	2,687	7,317	2,069	5,730	6,609	2,420	4,188
1953.....	50,232	866	2,623	17,549	4,290	10,247	2,727	7,520	2,146	5,867	6,645	2,305	4,340
1954.....	49,022	791	2,612	16,314	4,084	10,235	2,739	7,496	2,234	6,002	6,751	2,188	4,563
1955.....	50,675	792	2,802	16,882	4,141	10,535	2,796	7,740	2,335	6,274	6,914	2,187	4,727
1956.....	52,408	822	2,999	17,243	4,244	10,858	2,884	7,974	2,429	6,536	7,277	2,209	5,069
1957.....	52,894	828	2,923	17,174	4,241	10,886	2,893	7,992	2,477	6,749	7,616	2,217	5,399
1958.....	51,363	751	2,778	15,945	3,976	10,750	2,848	7,902	2,519	6,806	7,839	2,191	5,648
1959.....	53,313	732	2,960	16,675	4,011	11,127	2,946	8,182	2,594	7,130	8,083	2,233	5,850
1960.....	54,234	712	2,885	16,796	4,004	11,391	3,004	8,388	2,669	7,423	8,353	2,270	6,083
1961.....	54,042	672	2,816	16,326	3,903	11,337	2,993	8,344	2,731	7,664	8,594	2,279	6,315
1962.....	55,596	650	2,902	16,853	3,906	11,566	3,056	8,511	2,800	8,028	8,890	2,340	6,550
1963.....	56,702	635	2,963	16,995	3,903	11,778	3,104	8,675	2,877	8,325	9,225	2,358	6,868
1964.....	58,331	634	3,050	17,274	3,951	12,160	3,189	8,971	2,957	8,709	9,596	2,348	7,248
1965.....	60,815	632	3,186	18,062	4,036	12,716	3,312	9,404	3,023	9,087	10,074	2,378	7,696
1966.....	63,955	627	3,275	19,214	4,151	13,245	3,437	9,808	3,100	9,551	10,792	2,564	8,227
1967.....	65,857	613	3,208	19,447	4,261	13,606	3,525	10,081	3,225	10,099	11,398	2,719	8,679
1968.....	67,915	606	3,285	19,781	4,310	14,084	3,611	10,473	3,382	10,623	11,845	2,737	9,109
1969.....	70,274	619	3,437	20,169	4,431	14,645	3,738	10,907	3,557	11,211	12,204	2,758	9,446
1969: October	71,333	623	3,648	20,395	4,481	14,850	3,801	11,049	3,589	11,372	12,375	2,717	9,658
November	71,354	622	3,553	20,194	4,486	15,092	3,816	11,276	3,597	11,349	12,461	2,705	9,756
December	71,760	623	3,398	20,110	4,478	15,638	3,841	11,797	3,608	11,351	12,554	2,760	9,794
1970: January	69,933	611	3,048	19,824	4,435	14,707	3,797	10,910	3,604	11,254	12,450	2,690	9,760
February	70,029	608	3,071	19,770	4,420	14,606	3,788	10,818	3,615	11,357	12,582	2,694	9,888
March...	70,460	610	3,161	19,794	4,443	14,700	3,797	10,903	3,639	11,433	12,680	2,758	9,922
April....	70,758	616	3,286	19,627	4,432	14,818	3,803	11,015	3,658	11,564	12,757	2,838	9,919
May.....	70,780	620	3,344	19,432	4,469	14,878	3,813	11,065	3,670	11,641	12,726	2,765	9,961
June....	71,385	635	3,504	19,627	4,561	14,994	3,872	11,122	3,708	11,717	12,639	2,710	9,929
July....	70,602	635	3,572	19,325	4,593	14,924	3,902	11,022	3,738	11,698	12,117	2,700	9,417
August..	70,527	636	3,606	19,446	4,574	14,869	3,886	10,983	3,732	11,648	12,016	2,675	9,341
September	70,987	628	3,491	19,512	4,562	14,947	3,869	11,078	3,692	11,638	12,517	2,649	9,868
October P	70,633	622	3,437	18,852	4,524	15,045	3,892	11,153	3,688	11,700	12,765	2,642	10,123

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

**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2: Employees on nonagricultural payrolls, by industry**

		(In thousands)									
SIC CODE	Industry	All employees					Production workers <sup>1</sup>				
		Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969
-	<b>TOTAL</b> .....	70,633	70,987	70,527	71,333	70,964	-	-	-	-	-
-	<b>PRIVATE SECTOR</b> .....	57,868	58,470	58,511	58,958	58,916	47,765	48,357	48,340	48,873	48,844
-	<b>MINING</b> .....	622	628	636	623	630	472	478	484	476	483
10	<b>METAL MINING</b> .....	-	96.3	97.8	90.4	92.1	-	77.5	78.8	73.0	74.5
101	Iron ores .....	-	27.5	27.7	25.6	26.5	-	22.5	22.8	20.9	21.7
102	Copper ores .....	-	37.5	38.4	34.2	34.8	-	29.6	30.2	27.5	27.8
11,12	<b>COAL MINING</b> .....	-	148.0	145.8	137.4	136.9	-	128.2	126.0	119.0	118.8
12	Bituminous coal and lignite mining .....	-	142.3	140.1	131.7	131.2	-	123.1	121.0	113.9	113.8
13	<b>OIL AND GAS EXTRACTION</b> .....	-	262.8	269.9	277.0	281.8	-	172.3	178.2	186.0	190.4
131,2	Crude petroleum and natural gas fields .....	-	141.3	145.2	142.1	144.9	-	72.4	75.2	72.8	75.0
138	Oil and gas field services .....	-	121.5	124.7	134.9	136.9	-	99.9	103.0	113.2	115.4
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	-	120.7	122.4	118.4	119.6	-	99.9	101.3	97.7	98.9
142	Crushed and broken stone .....	-	43.2	43.9	41.7	42.1	-	36.5	37.1	35.4	35.7
144	Sand and gravel .....	-	40.0	40.6	38.1	38.7	-	-	-	-	-
-	<b>CONTRACT CONSTRUCTION</b> .....	3,437	3,491	3,606	3,648	3,687	2,888	2,936	3,042	3,103	3,145
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	-	1,004.1	1,040.1	1,104.6	1,207.4	-	843.5	876.4	942.4	948.0
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	-	828.6	862.3	803.9	828.7	-	714.7	746.4	696.2	722.0
161	Highway and street construction .....	-	391.3	409.5	381.1	398.8	-	350.9	368.5	341.7	359.1
162	Heavy construction, n e c .....	-	437.3	452.8	422.8	429.9	-	363.8	377.9	354.5	362.9
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	-	1,657.8	1,703.4	1,739.8	1,751.2	-	1,377.8	1,418.7	1,464.3	1,474.6
171	Plumbing, heating, air conditioning .....	-	395.1	403.9	416.6	409.8	-	317.9	324.8	337.9	331.4
172	Painting, paper hanging, decorating .....	-	132.5	142.7	140.0	142.2	-	116.7	126.2	124.7	127.1
173	Electrical work .....	-	290.5	293.4	290.2	291.6	-	233.3	235.1	235.1	236.9
174	Masonry, stonework, and plastering .....	-	210.0	218.7	239.7	243.2	-	189.0	197.3	218.1	221.8
176	Roofing and sheet metal work .....	-	119.3	123.4	126.1	126.5	-	98.6	102.7	104.8	105.7
-	<b>MANUFACTURING</b> .....	18,852	19,512	19,446	20,395	20,482	13,587	14,223	14,101	14,953	15,041
19,24,25,32-39	<b>DURABLE GOODS</b> .....	10,670	11,195	11,102	12,008	12,030	7,581	8,088	7,964	8,744	8,767
20-23,26-31	<b>NONDURABLE GOODS</b> .....	8,182	8,317	8,344	8,387	8,452	6,006	6,135	6,137	6,209	6,274
	<i>Durable Goods</i>										
19	<b>ARMORANCE AND ACCESSORIES</b> .....	223.3	236.2	238.8	298.3	305.8	117.7	127.9	128.4	170.1	174.5
192	Ammunition, except for small arms .....	(*)	164.6	168.0	218.0	222.5	(*)	83.8	85.1	119.1	122.0
1925	Complete guided missiles .....	-	97.3	97.9	116.5	119.0	-	30.4	30.1	36.7	38.1
1929	Ammunition, exc. for small arms, nec .....	-	67.3	70.1	101.5	103.5	-	53.4	55.0	82.4	83.9
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	577.8	585.4	590.9	604.4	616.7	496.8	504.7	510.3	522.8	535.9
241	Logging camps & logging contractors .....	77.7	78.8	79.7	83.2	86.7	-	-	-	-	-
242	Sawmills and planing mills .....	210.1	214.4	217.9	227.4	230.8	190.6	195.3	198.7	206.0	210.2
2421	Sawmills and planing mills, general .....	-	181.6	185.3	190.9	193.9	-	165.8	169.4	173.1	177.0
243	Millwork, plywood & related products .....	169.3	170.5	170.9	167.1	171.0	140.8	141.9	142.4	139.1	143.2
2431	Millwork .....	-	75.5	75.9	72.0	74.2	-	60.9	61.3	57.9	60.3
2432	Veneer and plywood .....	-	73.3	72.7	72.8	73.9	-	65.5	65.0	65.4	66.5
244	Wooden containers .....	(*)	31.9	32.4	35.7	36.4	(*)	28.2	28.7	31.8	32.6
2441,2	Wooden boxes, shooks, and crates .....	-	25.7	26.4	28.5	29.2	-	22.8	23.4	25.3	26.1
249	Miscellaneous wood products .....	88.3	89.8	90.0	91.0	91.8	73.3	74.5	74.6	76.6	77.5

See footnotes at end of table



**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2: Employees on nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	(In thousands)									
		All employees				Production workers <sup>1</sup>					
		Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Oct. 1970 P	Sept. P 1970	Aug. 1970	Oct. 1969	Sept. 1969	
<i>Durable Goods--Continued</i>											
35	<b>MACHINERY, EXCEPT ELECTRICAL . . . . .</b>	1,867.7	1,916.3	1,932.8	2,036.0	2,032.9	1,227.3	1,273.4	1,276.4	1,379.9	1,379.4
351	Engines and turbines . . . . .	103.7	104.2	109.1	112.9	113.3	68.7	69.3	74.0	76.5	77.0
3511	Steam engines and turbines . . . . .	—	33.1	39.7	40.0	40.0	—	17.2	23.8	23.0	23.1
3519	Internal combustion engines, n e c . . . . .	—	71.1	69.4	72.9	73.3	—	52.1	50.2	53.5	53.9
352	Farm machinery . . . . .	—	125.9	121.8	130.2	130.0	—	88.6	83.8	92.6	92.8
353	Construction and related machinery . . . . .	278.6	282.6	286.1	296.5	296.8	180.8	185.5	186.5	198.9	199.0
3531,2	Construction and mining machinery . . . . .	—	147.4	148.4	155.5	155.7	—	100.5	100.1	108.8	108.8
3533	Oil field machinery . . . . .	—	45.8	47.3	46.7	46.5	—	31.1	32.3	32.4	32.4
3535,6	Conveyors, hoists, cranes, monorails . . . . .	—	42.4	42.6	43.9	43.9	—	25.7	25.7	27.4	27.3
3537	Industrial trucks and tractors . . . . .	—	31.7	32.4	35.4	35.3	—	20.1	20.4	22.7	22.5
354	Metal working machinery . . . . .	(*)	306.6	309.4	343.5	342.7	(*)	224.7	225.0	255.9	255.3
3541	Machine tools, metal cutting types . . . . .	—	66.2	67.9	78.0	78.6	—	43.4	44.2	52.7	52.9
3544	Special dies, tools, jigs, & fixtures . . . . .	—	111.8	111.2	126.6	125.3	—	89.5	89.0	103.9	102.8
3545	Machine tool accessories . . . . .	—	53.7	55.1	59.2	59.2	—	38.6	39.3	42.9	43.0
3542,8	Misc. metal working machinery . . . . .	—	74.9	75.2	79.7	79.6	—	53.2	52.5	56.4	56.6
355	Special industry machinery . . . . .	184.9	188.4	190.1	204.7	204.9	119.0	122.9	123.1	135.1	135.2
3551	Food products machinery . . . . .	—	42.5	42.8	43.2	43.2	—	27.2	26.8	27.5	27.6
3552	Textile machinery . . . . .	—	35.2	35.4	41.6	42.0	—	25.9	26.4	31.2	31.3
3555	Printing trades machinery . . . . .	—	30.5	31.0	34.0	33.8	—	18.7	19.1	21.6	21.4
356	General industrial machinery . . . . .	(*)	277.5	278.5	290.1	290.4	(*)	184.0	184.1	192.7	192.3
3561	Pumps and compressors . . . . .	—	73.6	73.8	76.5	76.4	—	43.4	43.4	44.1	44.0
3562	Ball and roller bearings . . . . .	—	59.0	58.6	63.1	62.7	—	45.5	45.0	48.9	48.4
3564	Blowers and fans . . . . .	—	32.0	31.9	30.9	32.2	—	20.8	20.8	19.4	20.3
3566	Power transmission equipment . . . . .	—	51.7	51.8	54.3	54.0	—	36.8	36.5	39.2	38.7
357	Office and computing machines . . . . .	275.5	277.6	282.3	282.7	278.8	133.7	135.4	136.4	146.2	144.6
3573	<b>Electronic computing equipment . . . . .</b>	—	184.7	188.5	188.3	186.3	—	69.8	70.0	77.9	77.0
358	Service industry machines . . . . .	(*)	138.5	140.9	145.1	145.7	(*)	97.0	98.6	102.3	103.7
3585	Refrigeration machinery . . . . .	—	91.4	93.3	96.4	96.7	—	64.4	65.8	68.5	69.5
359	Misc. machinery, except electrical . . . . .	208.4	215.0	214.6	230.3	230.3	160.0	166.0	164.9	179.7	179.5
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	1,850.9	1,909.4	1,908.3	2,069.7	2,057.4	1,222.1	1,275.9	1,267.4	1,390.9	1,377.6
361	Electric test & distributing equipment . . . . .	(*)	216.5	216.4	218.8	217.3	(*)	147.5	147.6	148.7	147.7
3611	Electric measuring instruments . . . . .	—	69.4	69.1	74.9	73.8	—	42.6	42.4	47.0	46.4
3612	Transformers . . . . .	—	59.3	60.0	58.7	58.9	—	43.2	44.0	42.8	43.0
3613	Switchgear and switchboard apparatus . . . . .	—	87.8	87.3	85.2	84.6	—	61.7	61.2	58.9	58.3
362	Electrical industrial apparatus . . . . .	(*)	222.9	222.8	231.5	231.1	(*)	154.6	154.2	162.4	162.2
3621	Motors and generators . . . . .	—	118.3	117.8	125.3	125.4	—	83.9	83.3	89.7	89.8
3622	Industrial controls . . . . .	—	61.9	61.9	64.3	63.6	—	39.9	39.9	42.5	41.9
363	Household appliances . . . . .	(*)	183.8	181.4	194.2	191.2	(*)	147.0	144.5	155.2	152.3
3632	Household refrigerators and freezers . . . . .	—	58.4	58.2	59.8	60.5	—	48.7	48.7	49.5	50.0
3633	Household laundry equipment . . . . .	—	27.1	26.9	28.6	28.7	—	21.5	21.2	22.4	22.8
3634	Electric housewares and fans . . . . .	—	47.2	46.1	50.0	48.5	—	37.7	36.3	40.1	38.4
364	Electric lighting and wiring equipment . . . . .	202.7	204.9	204.4	211.6	210.2	156.3	158.5	157.6	164.4	162.7
3641	Electric lamps . . . . .	—	46.6	47.0	40.6	40.2	—	41.1	41.7	36.0	35.5
3642	Lighting fixtures . . . . .	—	66.6	65.3	68.7	68.7	—	51.4	50.2	53.9	53.7
3643,4	Wiring devices . . . . .	—	91.7	92.1	102.3	101.3	—	66.0	65.7	74.5	73.5
365	Radio and TV receiving equipment . . . . .	143.2	138.8	135.0	159.9	160.5	108.4	104.1	99.8	120.1	120.5
366	Communication equipment . . . . .	(*)	483.9	489.5	531.4	529.7	(*)	245.9	246.6	264.9	261.7
3661	Telephone and telegraph apparatus . . . . .	—	170.2	173.1	153.8	150.7	—	114.8	116.8	103.2	100.4
3662	Radio and TV communication equipment . . . . .	—	313.7	316.4	377.6	379.0	—	131.1	129.8	161.7	161.3
367	Electronic components and accessories . . . . .	(*)	336.2	340.4	396.6	392.8	(*)	224.0	226.8	278.0	274.5
3671-3	Electron tubes . . . . .	—	63.5	62.0	69.1	70.3	—	43.7	41.9	47.1	48.3
3674,9	Other electronic components . . . . .	—	272.7	278.4	327.5	322.5	—	180.3	184.9	230.9	226.2
369	Misc. electrical equipment & supplies . . . . .	(*)	122.4	118.4	125.7	124.6	(*)	94.3	90.3	97.2	96.0
3694	Engine electrical equipment . . . . .	—	63.0	60.5	67.4	66.5	—	49.3	46.7	52.7	52.0
37	<b>TRANSPORTATION EQUIPMENT . . . . .</b>	1,577.0	1,846.2	1,745.0	2,088.2	2,096.5	1,020.0	1,289.2	1,187.2	1,475.2	1,482.8
371	Motor vehicles and equipment . . . . .	(*)	872.1	770.3	946.1	947.5	(*)	678.0	576.9	738.5	738.4
3711	Motor vehicles . . . . .	—	386.0	322.7	420.6	420.7	—	285.4	224.7	313.3	313.2
3712	Passenger car bodies . . . . .	—	47.0	35.1	58.1	59.8	—	37.4	24.4	48.5	49.9
3713	Truck and bus bodies . . . . .	—	38.2	39.4	40.4	41.3	—	30.7	31.5	33.0	33.8
3714	Motor vehicle parts and accessories . . . . .	—	377.7	349.3	396.2	396.4	—	307.3	278.6	319.7	319.0
3715	Truck trailers . . . . .	—	23.2	23.8	30.8	29.3	—	17.2	17.7	24.0	22.5
372	Aircraft and parts . . . . .	(*)	659.2	660.8	803.5	810.0	(*)	359.3	359.6	462.7	468.7
3721	Aircraft . . . . .	—	366.6	371.5	460.5	464.9	—	193.9	196.1	256.8	261.6
3722	Aircraft engines and engine parts . . . . .	—	175.7	171.7	203.8	204.9	—	90.4	88.3	114.4	114.7
3723,9	Other aircraft parts and equipment . . . . .	—	116.9	117.6	139.2	140.2	—	75.0	75.2	91.5	92.4
373	Ship and boat building and repairing . . . . .	161.0	160.2	158.8	185.9	185.1	129.3	128.0	126.8	151.4	151.0
3731	Ship building and repairing . . . . .	—	129.5	129.0	141.9	141.3	—	104.3	103.9	115.6	115.3

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2: Employees on nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	(In thousands)									
		All employees					Production workers <sup>1</sup>				
		Oct. 1970 <sup>p</sup>	Sept. 1970 <sup>p</sup>	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 <sup>p</sup>	Sept. 1970 <sup>p</sup>	Aug. 1970	Oct. 1969	Sept. 1969
	<i>Nondurable Goods--Continued</i>										
	<b>TEXTILE MILL PRODUCTS--Continued</b>										
226	Textile finishing, except wool .....	(*)	83.3	83.3	82.0	81.7	(*)	70.6	70.6	69.6	69.1
227	Floor covering mills .....	-	56.2	55.0	58.8	58.1	-	44.6	43.7	47.2	46.6
228	Yarn and thread mills .....	131.1	130.8	130.9	129.7	129.9	121.1	120.6	121.0	119.9	120.1
229	Miscellaneous textile goods .....	(*)	73.3	73.2	80.8	80.7	(*)	60.0	59.8	66.7	66.5
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS...</b>	1,386.0	1,395.3	1,392.7	1,423.0	1,421.4	1,216.4	1,225.2	1,221.5	1,250.3	1,248.1
231	Men's and boys' suits and coats .....	122.8	123.4	125.6	133.6	134.8	107.2	107.7	109.7	116.9	118.3
232	Men's and boys' furnishings .....	(*)	385.3	387.9	370.5	370.2	(*)	341.3	343.5	328.5	328.2
2321	Men's and boys' shirts and nightwear .....	-	123.7	124.6	118.2	117.4	-	110.7	111.6	105.9	105.0
2327	Men's and boys' separate trousers .....	-	81.4	82.5	80.4	81.1	-	73.6	74.7	73.2	73.8
2328	Men's and boys' work clothing .....	-	87.4	87.9	83.9	83.8	-	75.5	75.5	72.3	72.4
233	Women's and misses' outerwear .....	431.2	432.9	430.3	437.3	435.1	382.6	384.8	382.0	387.7	385.8
2331	Women's and misses' blouses and waists .....	-	51.7	52.2	51.9	50.9	-	46.2	46.7	46.6	45.5
2335	Women's and misses' dresses .....	-	203.8	202.6	208.4	206.6	-	183.8	182.7	187.5	185.8
2337	Women's and misses' suits and coats .....	-	87.1	85.8	87.2	90.9	-	77.2	75.9	76.5	80.8
2339	Women's and misses' outerwear, n e c .....	-	90.3	89.7	89.8	86.7	-	77.6	76.7	77.1	73.7
234	Women's and children's undergarments .....	120.4	119.2	117.9	125.3	125.3	105.2	104.1	102.5	109.2	109.0
2341	Women's and children's underwear .....	-	85.3	84.4	86.5	86.5	-	75.8	74.8	76.6	76.5
2342	Corsets and allied garments .....	-	33.9	33.5	38.8	38.8	-	28.3	27.7	32.6	32.5
235	Hats, caps, and millinery .....	-	18.6	18.9	19.9	20.3	-	16.7	16.9	17.9	18.1
236	Children's outerwear .....	73.9	73.4	73.8	76.0	76.0	66.0	65.3	65.5	67.2	67.3
2361	Children's dresses and blouses .....	-	30.7	30.3	33.7	33.0	-	27.8	27.1	30.3	29.7
237,8	Fur goods and miscellaneous apparel .....	-	75.9	74.7	80.9	80.3	-	65.1	64.2	69.6	69.3
239	Misc. fabricated textile products .....	(*)	166.6	163.6	179.5	179.4	(*)	140.2	137.2	153.3	152.1
2391,2	Housefurnishings .....	-	66.0	64.8	69.6	68.6	-	56.6	55.6	60.1	59.2
26	<b>PAPER AND ALLIED PRODUCTS.....</b>	701.5	709.7	711.9	716.4	718.0	540.0	548.1	548.0	554.1	556.5
261,2,6	Paper and pulp mills .....	220.0	221.8	226.0	224.4	226.2	169.4	170.8	173.8	174.3	176.5
263	Paperboard mills .....	(*)	72.4	72.4	70.3	70.8	(*)	58.7	58.3	56.1	56.4
264	Misc. converted paper products .....	(*)	189.1	187.9	189.2	189.3	(*)	138.1	136.9	137.3	137.7
2643	Bags, except textile bags .....	-	43.1	42.0	43.0	43.0	-	34.3	33.5	34.8	34.8
265	Paperboard containers and boxes .....	225.0	226.4	225.6	232.5	231.7	178.7	180.5	179.0	186.4	185.9
2651,2	Folding and setup paperboard boxes .....	-	69.7	69.2	71.1	70.8	-	57.4	57.0	59.2	58.9
2653	Corrugated and solid fiber boxes .....	-	108.4	107.1	111.8	111.3	-	83.4	81.9	86.5	86.3
2654	Sanitary food containers .....	-	29.8	30.1	29.8	29.8	-	24.3	24.3	24.1	24.1
27	<b>PRINTING AND PUBLISHING.....</b>	1,101.8	1,103.8	1,104.5	1,077.7	1,098.5	676.5	681.9	675.3	690.6	685.3
271	Newspapers .....	372.6	371.6	373.6	371.4	368.0	180.2	181.1	180.1	182.3	180.5
272	Periodicals .....	-	74.4	75.0	75.9	75.1	-	25.0	24.4	26.6	26.5
273	Books .....	-	98.8	99.5	98.0	98.0	-	53.7	53.5	54.0	54.3
275	Commercial printing .....	355.6	357.9	354.8	356.7	353.6	274.8	277.2	273.9	277.6	274.8
2751	Commercial printing, ex. lithographic .....	-	218.9	216.7	219.0	217.7	-	171.5	169.1	172.1	171.1
2752	Commercial printing, lithographic .....	-	127.6	126.7	126.1	124.4	-	97.2	96.4	96.7	95.0
278	Blankbooks and bookbinding .....	57.7	58.1	58.8	59.0	59.3	47.7	48.1	48.0	48.5	49.1
274,6,7,9	Other publishing & printing ind. ....	143.6	143.0	142.8	146.7	144.5	96.8	96.8	96.6	101.6	100.1
28	<b>CHEMICALS AND ALLIED PRODUCTS....</b>	1,047.3	1,056.4	1,065.4	1,058.1	1,063.9	598.5	605.1	608.3	615.2	619.5
281	Industrial chemicals .....	317.6	321.5	324.9	317.5	320.0	172.1	174.5	175.4	172.6	174.8
2812	Alkalies and chlorine .....	-	21.8	22.1	22.7	22.9	-	14.7	14.8	15.8	16.0
2818	Industrial organic chemicals, n e c .....	-	129.4	131.6	128.3	128.5	-	57.2	57.8	56.5	56.9
2819	Industrial inorganic chemicals, n e c .....	-	103.9	104.1	98.6	100.3	-	60.0	60.0	56.8	58.2
282	Plastics materials and synthetics .....	221.5	222.7	223.4	227.8	228.3	143.8	144.8	144.6	148.9	149.5
2821	Plastics materials and resins .....	-	95.8	96.4	96.1	95.9	-	58.3	58.4	58.4	58.2
2823,4	Synthetic fibers .....	-	113.2	113.2	117.9	118.6	-	77.2	76.8	81.4	82.2
283	Drugs .....	149.7	150.5	152.3	144.2	145.0	71.2	72.2	73.2	70.3	70.4
2834	Pharmaceutical preparations .....	-	116.4	117.7	112.5	112.8	-	54.6	55.3	53.9	54.0
284	Soap, cleaners, and toilet goods .....	127.2	127.9	128.8	125.2	124.6	72.9	73.2	73.8	73.9	73.6
2841	Soap and other detergents .....	-	42.3	42.5	41.6	42.0	-	27.6	27.4	27.3	27.5
2844	Toilet preparations .....	-	51.5	51.3	51.0	50.1	-	29.6	29.7	31.3	30.7
285	Paints and allied products .....	71.1	71.8	73.1	71.4	72.6	39.8	40.4	41.4	39.6	40.1
287	Agricultural chemicals .....	54.7	54.4	54.2	54.2	53.5	32.4	31.9	31.5	32.7	31.8
2871,2	Fertilizers, complete & mixing only .....	-	37.6	36.7	37.1	36.3	-	24.1	23.0	24.4	23.4
286,9	Other chemical products .....	105.5	107.6	108.7	117.8	119.9	66.3	68.1	68.4	77.2	79.3
2892	Explosives .....	-	32.9	33.5	42.1	43.7	-	23.6	23.5	32.0	33.6
29	<b>PETROLEUM AND COAL PRODUCTS ....</b>	192.9	193.3	196.7	191.8	191.9	117.5	117.7	120.8	118.9	120.0
291	Petroleum refining .....	154.2	153.9	156.1	152.4	152.3	90.0	89.7	91.5	90.5	91.2
295,9	Other petroleum and coal products .....	38.7	39.4	40.6	39.4	39.6	27.5	28.0	29.3	28.4	28.8

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**
**B-2: Employees on nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	(In thousands)					Production workers <sup>1</sup>				
		All employees									
		Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969
<i>Nonurable Goods--Continued</i>											
30	<b>RUBBER AND PLASTICS PRODUCTS, N.E.C.</b>	557.4	574.5	569.7	600.5	599.0	422.8	440.4	435.1	464.8	463.9
301	Tires and inner tubes.....	110.0	112.6	113.5	119.3	119.4	73.8	76.3	76.9	83.1	83.2
302, 3,6	Other rubber products.....	(*)	171.0	167.8	182.1	183.0	(*)	133.3	130.3	142.8	143.5
302	Rubber footwear.....	-	24.0	23.2	24.2	25.4	-	20.7	20.1	20.3	21.3
307	Miscellaneous plastics products.....	287.9	290.9	288.4	299.1	296.6	227.4	230.8	227.9	238.9	237.2
31	<b>LEATHER AND LEATHER PRODUCTS...</b>	322.6	323.6	330.0	338.2	336.1	275.1	275.7	282.1	289.3	287.1
311	Leather tanning and finishing.....	27.7	27.6	26.5	28.1	28.5	23.8	23.7	22.8	24.4	24.6
314	Footwear, except rubber.....	212.2	213.9	221.2	221.2	218.9	184.2	185.5	192.4	192.1	189.9
312,3,5-7,9	Other leather products.....	82.7	82.1	82.3	88.9	88.7	67.1	66.5	66.9	72.8	72.6
316	Luggage.....	-	18.1	18.0	22.3	22.3	-	13.7	13.6	17.9	17.9
317	Handbags and personal leather goods.....	-	35.9	36.2	36.8	36.8	-	30.4	30.8	30.9	30.9
-	<b>TRANSPORTATION AND PUBLIC UTILITIES.....</b>	4,524	4,562	4,574	4,481	4,508	3,922	3,960	3,971	3,900	3,928
40	<b>RAILROAD TRANSPORTATION.....</b>	-	624.6	635.4	639.8	642.4	-	-	-	-	-
4011	Class I railroads <sup>2</sup> .....	-	559.0	568.9	570.3	571.8	-	-	-	-	-
41	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT.....</b>	-	284.7	265.9	289.0	287.6	-	-	-	-	-
411	Local and suburban transportation.....	-	76.1	75.0	77.5	78.2	-	71.5	70.5	72.5	73.1
412	Taxis, cabs,.....	-	111.7	114.2	111.2	110.0	-	-	-	-	-
413	Intercity highway transportation.....	-	44.7	45.0	42.9	44.4	-	41.1	41.3	39.4	40.5
42	<b>TRUCKING AND WAREHOUSING.....</b>	-	1,137.2	1,125.9	1,112.0	1,112.3	-	1,030.5	1,018.8	1,008.4	1,010.2
421,3	Trucking and trucking terminals.....	-	1,050.7	1,039.4	1,019.4	1,025.5	-	956.5	944.7	927.3	934.7
422	Public warehousing.....	-	86.5	86.5	92.6	86.8	-	74.0	74.1	81.1	75.5
45	<b>TRANSPORTATION BY AIR.....</b>	-	344.8	346.1	359.1	363.1	-	-	-	-	-
451,2	Air transportation.....	-	314.5	315.1	325.3	329.8	-	-	-	-	-
46	<b>PIPE LINE TRANSPORTATION.....</b>	-	17.6	18.4	17.5	18.1	-	13.9	14.7	14.0	14.6
44,47	<b>OTHER TRANSPORTATION AND SERVICES</b>	-	311.8	320.5	330.8	345.1	-	-	-	-	-
44	WATER TRANSPORTATION.....	-	209.5	217.5	224.2	238.5	-	-	-	-	-
47	TRANSPORTATION SERVICES.....	-	102.3	103.0	106.6	106.6	-	-	-	-	-
48	<b>COMMUNICATION.....</b>	-	1,146.2	1,153.8	1,065.7	1,063.5	-	898.7	906.2	839.2	838.6
481	Telephone communication.....	-	952.5	961.5	882.0	879.5	-	756.8	765.7	704.5	704.0
482	Telegraph communication <sup>3</sup> .....	-	30.9	31.3	31.3	32.1	-	21.1	21.5	21.8	22.4
483	Radio and television broadcasting.....	-	141.6	140.2	134.9	134.7	-	112.8	111.4	106.7	106.2
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	-	695.4	708.4	666.8	675.6	-	598.2	611.6	573.1	581.6
491	Electric companies and systems.....	-	289.7	294.6	276.8	279.9	-	247.1	252.3	236.0	239.1
492	Gas companies and systems.....	-	163.6	167.1	156.7	159.3	-	139.2	143.0	133.5	135.7
493	Combination companies and systems.....	-	189.3	192.7	184.0	186.4	-	165.6	168.7	160.2	162.9
494-7	Water, steam, & sanitary systems.....	-	52.8	54.0	49.3	50.0	-	46.3	47.6	43.4	43.9
-	<b>WHOLESALE AND RETAIL TRADE.....</b>	15,045	14,947	14,869	14,850	14,714	13,376	13,274	13,212	13,220	13,092
50	<b>WHOLESALE TRADE.....</b>	3,892	3,869	3,886	3,801	3,781	3,273	3,250	3,269	3,196	3,181
501	Motor vehicles & automotive equipment.....	-	331.8	332.7	312.8	310.8	-	271.1	272.0	257.1	256.9
502	Drugs, chemicals, and allied products.....	-	236.2	237.1	230.7	228.3	-	191.0	191.5	187.4	186.5
503	Dry goods and apparel.....	-	150.0	150.3	151.4	148.5	-	118.2	118.8	119.8	117.2
504	Groceries and related products.....	-	554.3	554.5	558.3	554.2	-	486.0	486.2	489.5	484.7
506	Electrical goods.....	-	337.5	337.9	306.7	308.2	-	285.1	286.4	256.4	257.4
507	Hardware, plumbing & heating equipment.....	-	172.4	175.0	171.1	172.0	-	145.4	148.3	144.9	145.9
508	Machinery, equipment, and supplies.....	-	747.0	752.8	738.7	739.5	-	635.2	641.4	627.1	629.0
509	Miscellaneous wholesalers.....	-	1,246.5	1,254.1	1,230.1	1,224.8	-	1,040.0	1,047.4	1,028.5	1,024.5
52-59	<b>RETAIL TRADE.....</b>	11,153	11,078	10,983	11,049	10,933	10,103	10,024	9,943	10,024	9,911
53	<b>RETAIL GENERAL MERCHANDISE.....</b>	-	2,259.7	2,215.2	2,316.1	2,233.2	-	2,063.5	2,027.4	2,127.7	2,051.1
531	Department stores.....	-	1,461.8	1,422.9	1,505.7	1,445.2	-	1,335.3	1,303.8	1,386.4	1,329.7
532	Mail order houses.....	-	125.4	122.1	138.2	129.1	-	116.6	113.0	129.2	120.1
533	Variety stores.....	-	322.0	314.1	331.2	323.1	-	296.8	290.0	305.8	298.2
54	<b>FOOD STORES.....</b>	-	1,723.9	1,706.1	1,709.7	1,676.2	-	1,601.0	1,585.3	1,592.2	1,559.6
541-3	Grocery, meat, and vegetable stores.....	-	1,556.5	1,540.7	1,542.3	1,511.5	-	1,444.9	1,431.1	1,435.9	1,406.3

See footnotes at end of table.

**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2: Employees on nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	(In thousands)									
		All employees					Production workers <sup>1</sup>				
		Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969
-	<b>WHOLESALE AND RETAIL TRADE (Continued)</b>										
56	APPAREL AND ACCESSORY STORES . . . . .	-	691.6	676.9	723.6	706.8	-	619.3	604.8	650.5	633.1
561	Men's & boys' clothing & furnishings . . . . .	-	125.3	122.1	125.0	120.7	-	111.4	108.7	111.7	106.7
562	Women's ready-to-wear stores . . . . .	-	257.3	255.8	274.1	266.0	-	230.4	229.0	246.6	238.6
565	Family clothing stores . . . . .	-	98.6	97.0	107.3	105.3	-	91.5	89.5	99.8	97.9
566	Shoe stores . . . . .	-	138.2	132.7	143.4	143.0	-	121.9	116.4	127.1	126.4
57	<b>FURNITURE AND HOME FURNISHINGS STORES</b>	-	449.9	451.8	458.8	454.3	-	390.9	392.9	401.7	398.0
571	Furniture and home furnishings . . . . .	-	286.1	287.0	290.3	286.9	-	247.6	248.7	252.9	250.3
58	<b>EATING AND DRINKING PLACES . . . . .</b>	-	2,560.3	2,530.3	2,471.6	2,502.3	-	2,396.4	2,369.4	2,312.6	2,341.5
52,55,59	<b>OTHER RETAIL TRADE . . . . .</b>	-	3,392.5	3,402.6	3,369.4	3,360.1	-	2,952.4	2,963.2	2,939.7	2,927.7
52	Building materials and farm equipment . . . . .	-	561.4	572.1	553.9	555.9	-	481.2	492.8	476.7	477.4
55	Automotive dealers & service stations . . . . .	-	1,611.6	1,620.0	1,609.9	1,613.7	-	-	-	-	-
551,2	Motor vehicle dealers . . . . .	-	767.8	771.1	779.9	777.5	-	648.7	651.7	661.4	659.3
553,9	Other automotive & accessory dealers . . . . .	-	232.0	235.8	227.1	225.8	-	199.1	203.4	195.4	194.5
554	Gasoline service stations . . . . .	-	611.8	613.1	602.9	610.4	-	-	-	-	-
59	Miscellaneous retail stores . . . . .	-	1,219.5	1,210.5	1,205.6	1,190.5	-	-	-	-	-
591	Drug stores and proprietary stores . . . . .	-	438.3	434.7	441.3	439.4	-	389.6	386.2	394.5	392.4
594	Book and stationery stores . . . . .	-	65.0	63.3	65.4	64.3	-	55.7	54.3	56.5	55.2
596	Farm and garden supply stores . . . . .	-	106.8	106.3	105.5	105.0	-	-	-	-	-
598	Fuel and ice dealers . . . . .	-	101.9	100.8	105.4	102.7	-	88.0	87.0	91.4	89.0
-	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>4</sup></b>	3,688	3,692	3,732	3,589	3,595	2,909	2,914	2,956	2,852	2,856
60	Banking . . . . .	-	1,054.0	1,067.1	1,002.8	999.7	-	866.0	880.5	832.3	829.9
61	Credit agencies other than banks . . . . .	-	369.8	373.1	363.3	362.3	-	288.8	291.9	283.8	283.3
612	Savings and loan associations . . . . .	-	110.3	110.3	104.7	104.3	-	88.1	88.2	83.6	83.1
614	Personal credit institutions . . . . .	-	191.8	193.7	193.3	192.9	-	-	-	-	-
62	Security, commodity brokers & services . . . . .	-	186.4	191.4	214.6	218.3	-	157.8	162.7	188.0	191.7
63	Insurance carriers . . . . .	-	1,065.8	1,072.5	1,203.6	1,023.0	-	749.2	756.3	716.6	712.1
631	Life insurance . . . . .	-	554.9	555.1	532.8	533.5	-	332.2	333.7	314.8	315.4
632	Accident and health insurance . . . . .	-	95.3	96.2	88.4	87.6	-	82.0	83.0	76.3	75.5
633	Fire, marine, and casualty insurance . . . . .	-	371.0	375.0	357.6	357.0	-	298.2	302.3	287.9	283.5
64	Insurance agents, brokers, and service . . . . .	-	277.7	279.3	266.0	266.7	-	-	-	-	-
65	Real estate . . . . .	-	653.1	664.0	637.3	642.1	-	-	-	-	-
655	Subdividers and developers . . . . .	-	90.3	94.8	86.1	87.3	-	-	-	-	-
656	Operative builders . . . . .	-	41.0	41.6	45.6	46.9	-	-	-	-	-
66,67	Other finance, insurance, & real estate . . . . .	-	85.4	84.3	81.7	83.0	-	-	-	-	-
-	<b>SERVICES . . . . .</b>	11,700	11,638	11,648	11,372	11,300	10,611	10,572	10,574	10,369	10,299
70	Hotels and other lodging places . . . . .	-	766.4	834.0	738.4	764.8	-	-	-	-	-
701	Hotels, tourist courts, and motels . . . . .	-	680.5	709.7	670.3	682.7	-	630.7	658.5	621.6	632.7
72	Personal services . . . . .	-	984.6	981.5	1,028.0	1,022.1	-	-	-	-	-
721	Laundries and dry cleaning plants . . . . .	-	502.7	506.5	534.5	535.7	-	455.8	459.7	486.3	487.0
722	Photographic studios . . . . .	-	40.3	37.6	42.5	40.1	-	34.9	32.1	36.5	35.0
73	Miscellaneous business services . . . . .	-	1,571.5	1,566.8	1,555.5	1,550.7	-	-	-	-	-
731	Advertising . . . . .	-	121.2	122.3	122.1	121.9	-	-	-	-	-
732	Credit reporting and collection . . . . .	-	77.9	76.9	77.4	76.2	-	-	-	-	-
734	Services to buildings . . . . .	-	297.7	296.3	274.5	275.4	-	-	-	-	-
76	Miscellaneous repair services . . . . .	-	180.3	179.8	183.7	183.0	-	-	-	-	-
78	Motion pictures . . . . .	-	198.8	203.4	203.2	207.1	-	-	-	-	-
781	Motion picture filming & distributing . . . . .	-	49.1	50.5	57.6	57.3	-	32.4	33.3	38.5	38.0
782,3	Motion picture theaters and services . . . . .	-	149.7	152.9	145.6	149.8	-	-	-	-	-
80	Medical and other health services . . . . .	-	3,122.1	3,117.5	2,927.8	2,907.8	-	-	-	-	-
806	Hospitals . . . . .	-	1,899.9	1,902.9	1,800.9	1,790.7	-	-	-	-	-
81	Legal services . . . . .	-	240.8	246.7	227.0	226.0	-	-	-	-	-
82	Educational services . . . . .	-	1,112.2	980.3	1,164.3	1,061.6	-	-	-	-	-
821	Elementary and secondary schools . . . . .	-	387.8	333.3	393.2	368.3	-	-	-	-	-
822	Colleges and universities . . . . .	-	628.8	557.5	677.3	603.6	-	-	-	-	-
89	Miscellaneous services . . . . .	-	652.1	661.3	638.6	639.0	-	-	-	-	-
891	Engineering & architectural services . . . . .	-	301.2	305.8	306.8	308.3	-	-	-	-	-
892	Nonprofit research agencies . . . . .	-	105.1	107.0	106.0	106.5	-	-	-	-	-

See footnotes at end of table.



**ESTABLISHMENT DATA  
EMPLOYMENT**

**B-2: Employees on nonagricultural payrolls, by industry--Continued**

(In thousands)

SIC Code	Industry	All employees					Production workers <sup>1</sup>				
		Oct. 1970 p	Sept. 1970 p	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 p	Sept. 1970 p	Aug. 1970	Oct. 1969	Sept. 1969
-	<b>GOVERNMENT</b> .....	12,765	12,517	12,016	12,375	12,048	-	-	-	-	-
91	<b>FEDERAL GOVERNMENT</b> <sup>5</sup> .....	2,642	2,649	2,675	2,717	2,733	-	-	-	-	-
	Executive .....	-	2,611.9	2,637.4	2,681.6	2,697.3	-	-	-	-	-
	Department of Defense .....	-	1,013.4	1,021.9	1,102.8	1,111.6	-	-	-	-	-
	Post Office Department .....	-	718.7	723.5	725.5	726.5	-	-	-	-	-
	Other agencies .....	-	879.8	892.0	853.3	859.2	-	-	-	-	-
	Legislative .....	-	29.8	30.7	29.0	29.2	-	-	-	-	-
	Judicial .....	-	6.8	6.8	6.7	6.7	-	-	-	-	-
92,93	<b>STATE AND LOCAL GOVERNMENT</b> ...	10,123	9,868	9,341	9,658	9,315	-	-	-	-	-
92	State government .....	-	2,630.0	2,564.8	2,613.6	2,489.5	-	-	-	-	-
	State education .....	-	1,040.2	938.3	1,112.4	967.2	-	-	-	-	-
	Other State government .....	-	1,589.8	1,626.5	1,501.2	1,522.3	-	-	-	-	-
93	Local government .....	-	7,238.2	6,776.1	7,044.5	6,825.8	-	-	-	-	-
	Local education .....	-	4,032.1	3,445.4	4,026.3	3,780.0	-	-	-	-	-
	Other local government .....	-	3,206.1	3,330.7	3,018.2	3,045.8	-	-	-	-	-

<sup>1</sup>Data relate to production workers in mining and manufacturing; to construction workers in contract construction; and to nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services. These groups account for approximately four-fifths of the total employment on private nonagricultural payrolls.

<sup>2</sup>Beginning January 1965, data relate to railroads with operating revenues of \$5,000,000 or more.

<sup>3</sup>Data for nonsupervisory workers exclude messengers.

<sup>4</sup>Data for nonoffice salesmen excluded from nonsupervisory count for all series in this division.

<sup>5</sup>Prepared by the U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

\*Not available.

p = preliminary.

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	July 1970		April 1970		July 1969	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
-	<b>TOTAL</b> .....	25,431	36	26,166	37	24,930	35
-	<b>PRIVATE SECTOR</b> .....	20,581	35	20,661	36	20,417	35
-	<b>MINING</b> .....	38	6	37	6	37	6
10	<b>METAL MINING</b> .....	2.9	3	2.7	3	2.8	3
11,12	<b>COAL MINING</b> .....	2.4	2	2.3	2	2.2	2
13	<b>OIL AND GAS EXTRACTION</b> .....	26.9	10	26.7	10	26.8	9
131,2	Crude petroleum and natural gas fields .....	18.4	13	18.1	13	19.0	13
138	Oil and gas field services .....	8.5	7	8.6	7	7.8	6
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	5.3	4	5.1	4	5.4	4
142	Crushed and broken stone .....	1.9	4	1.9	5	1.9	4
144	Sand and gravel .....	1.6	4	1.4	4	1.6	4
-	<b>CONTRACT CONSTRUCTION</b> .....	169	5	166	5	165	4
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	45.7	4	45.4	5	44.5	4
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	31.2	4	29.2	4	29.5	4
161	Highway and street construction .....	11.0	3	10.1	3	11.1	3
162	Heavy construction, n e c .....	20.2	4	19.1	5	18.4	4
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	91.6	5	91.5	6	91.3	5
171	Plumbing, heating, air conditioning .....	28.2	7	27.6	7	27.5	7
172	Painting, paper hanging, decorating .....	7.3	5	7.5	6	7.6	5
173	Electrical work .....	13.9	5	14.3	5	14.7	5
174	Masonry, stonework, and plastering .....	8.2	4	8.1	4	8.3	3
176	Roofing and sheet metal work .....	7.4	6	7.3	6	6.9	6
-	<b>MANUFACTURING</b> .....	5,356	28	5,484	28	5,595	28
19,24,25,32-39	<b>DURABLE GOODS</b> .....	2,241	20	2,339	20	2,424	20
20-23,26-31	<b>NONDURABLE GOODS</b> .....	3,115	38	3,145	39	3,171	38
	<i>Durable Goods</i>						
19	<b>ORDNANCE AND ACCESSORIES</b> .....	61.4	25	65.7	25	86.7	27
192	Ammunition, except for small arms .....	45.6	27	49.3	27	66.2	28
1925	Complete guided missiles .....	17.9	18	19.0	18	23.3	19
1929	Ammunition, exc. for small arms, n e c .....	27.7	39	30.3	38	42.9	39
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	59.1	10	62.0	11	64.5	10
241	Logging camps, & logging contractors .....	3.3	4	3.7	5	4.3	5
242	Sawmills and planing mills .....	12.6	6	12.6	6	12.9	6
2421	Sawmills and planing mills, general .....	9.3	5	9.0	5	9.4	5
243	Millwork, plywood & related products .....	18.3	11	18.9	12	20.6	12
2431	Millwork .....	10.1	14	9.7	14	10.7	14
2432	Veneer and plywood .....	6.8	9	7.4	10	8.3	11
244	Wooden containers .....	6.5	19	6.7	19	7.1	19
2441,2	Wooden boxes, shooks, and crates .....	5.4	19	5.5	20	5.9	19
249	Miscellaneous wood products .....	18.4	21	20.1	22	19.6	22
25	<b>FURNITURE AND FIXTURES</b> .....	106.2	24	113.5	25	113.1	24
251	Household furniture .....	80.4	26	86.7	27	86.7	26
2511	Wood household furniture .....	35.4	23	37.5	23	40.4	24
2512	Upholstered household furniture .....	24.9	30	26.3	31	25.7	30
2515	Mattresses and bedsprings .....	10.6	28	10.8	29	11.4	29
252	Office furniture .....	5.9	16	6.3	16	6.0	16
254	Partitions and fixtures .....	5.9	11	5.9	12	5.4	11
253,9	Other furniture and fixtures .....	14.0	28	14.6	29	15.0	28
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	104.2	16	106.5	17	107.1	16
321	Flat glass .....	1.6	7	1.7	7	1.7	7
322	Glass and glassware, pressed or blown .....	44.3	33	43.5	33	43.4	33
3221	Glass containers .....	28.7	37	27.4	37	27.1	36
3229	Pressed and blown glass n e c .....	15.6	29	16.1	29	16.3	29
324	Cement, hydraulic .....	1.4	4	1.4	4	1.5	4
325	Structural clay products .....	6.5	11	6.7	11	7.5	11
3251	Brick and structural clay tile .....	1.2	5	1.3	5	1.4	5
326	Pottery and related products .....	12.6	31	14.6	33	14.1	32
327	Concrete, gypsum, and plaster products .....	11.0	6	11.0	6	10.7	5
328,9	Other stone and nonmetallic mineral products .....	19.2	14	19.7	14	20.4	14
3291	Abrasive products .....	5.2	20	5.4	20	5.6	20

**ESTABLISHMENT DATA**  
**WOMEN EMPLOYEES**
**B-3: Women employees on nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	July 1970		April 1970		July 1969	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<i>Durable Goods--Continued</i>						
33	<b>PRIMARY METAL INDUSTRIES</b> . . . . .	93.4	7	95.8	7	96.5	7
331	Blast furnace and basic steel products . . . . .	29.4	5	29.4	5	29.3	4
3312	Blast furnaces and steel mills . . . . .	22.6	4	22.4	4	22.1	4
332	Iron and steel foundries . . . . .	11.9	5	12.2	5	12.0	5
3321	Gray iron foundries . . . . .	6.3	5	6.5	4	6.5	5
3322	Malleable iron foundries . . . . .	1.1	5	1.2	5	1.2	5
3323	Steel foundries . . . . .	4.5	7	4.5	7	4.3	7
333,4	Nonferrous metals . . . . .	3.8	4	3.7	4	3.9	4
3334	Primary aluminum . . . . .	1.0	3	.9	3	.9	3
335	Nonferrous rolling and drawing . . . . .	31.9	15	33.0	15	33.1	15
3351	Copper rolling and drawing . . . . .	3.5	8	3.6	8	3.6	8
3352	Aluminum rolling and drawing . . . . .	7.0	10	6.8	10	7.1	10
3357	Nonferrous wire drawing and insulating . . . . .	18.0	24	18.9	24	18.7	24
336	Nonferrous foundries . . . . .	11.1	13	12.0	14	12.6	14
3361	Aluminum castings . . . . .	4.6	11	5.1	11	5.0	10
3362,9	Other nonferrous castings . . . . .	6.5	17	6.9	17	7.6	17
339	Miscellaneous primary metal products . . . . .	5.3	8	5.5	8	5.6	7
3391	Iron and steel forgings . . . . .	3.0	6	2.9	6	3.1	6
34	<b>FABRICATED METAL PRODUCTS</b> . . . . .	247.1	18	256.1	18	264.1	18
341	Metal cans . . . . .	11.3	16	11.2	16	11.6	16
342	Cutlery, hand tools, and hardware . . . . .	46.7	32	51.2	32	53.5	33
3421,3,5	Cutlery and hand tools, incl. saws . . . . .	16.6	26	17.5	22	17.1	26
3429	Hardware, n e c . . . . .	30.1	36	33.7	37	36.4	38
343	Plumbing and heating, except electric . . . . .	13.0	16	13.2	16	13.5	16
3431,2	Sanitary ware & plumbers' brass goods . . . . .	6.7	19	6.8	19	6.9	18
3433	Heating equipment, except electric . . . . .	6.3	14	6.4	14	6.6	14
344	Fabricated structural metal products . . . . .	43.9	10	41.6	10	43.4	10
3441	Fabricated structural steel . . . . .	5.7	5	5.6	5	5.6	5
3442	Metal doors, sash, and trim . . . . .	14.9	22	13.2	21	15.2	21
3443	Fabricated plate work (boiler shops) . . . . .	8.4	7	8.3	7	8.4	7
3444	Sheet metal work . . . . .	10.4	13	10.1	13	10.0	12
3446,9	Architectural and misc. metal work . . . . .	4.5	9	4.4	9	4.2	8
345	Screw machine products, bolts, etc. . . . .	22.7	21	24.2	21	24.2	21
3451	Screw machine products . . . . .	11.3	24	12.0	24	12.1	24
3452	Bolts, nuts, rivets, and washers . . . . .	11.4	19	12.2	19	12.1	20
346	Metal stampings . . . . .	48.5	21	50.7	21	52.8	22
347	Metal services, n e c . . . . .	16.8	19	17.9	20	18.3	20
348	Misc. fabricated wire products . . . . .	15.6	24	16.3	25	16.8	25
349	Misc. fabricated metal products . . . . .	28.6	18	29.8	19	30.0	19
3494,8	Valves, pipe, and pipe fittings . . . . .	15.7	17	16.5	17	16.5	18
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> . . . . .	293.3	15	306.3	15	303.5	15
351	Engines and turbines . . . . .	14.1	13	15.0	14	16.1	14
3511	Steam engines and turbines . . . . .	4.5	12	4.4	11	4.6	11
3519	Internal combustion engines, n e c . . . . .	9.6	14	10.6	15	11.5	16
352	Farm machinery . . . . .	13.0	10	13.8	10	13.6	10
353	Construction and related machinery . . . . .	27.1	9	27.4	9	26.3	9
3531,2	Construction and mining machinery . . . . .	12.0	8	12.2	8	11.8	8
3533	Oil field machinery . . . . .	4.5	10	4.4	9	4.2	9
3535,6	Conveyors, hoists, cranes, monorails . . . . .	4.8	11	4.8	11	4.8	11
3537	Industrial trucks and tractors . . . . .	3.1	10	3.3	9	3.2	9
354	Metal working machinery . . . . .	37.2	12	39.3	12	38.6	11
3541	Machine tools, metal cutting types . . . . .	7.0	10	7.4	10	7.5	10
3544	Special dies, tools, jigs & fixtures . . . . .	8.8	8	9.2	7	8.7	7
3545	Machine tool accessories . . . . .	10.5	19	11.3	19	11.5	19
3542,8	Misc. metal working machinery . . . . .	10.9	14	11.4	14	10.9	14
355	Special industry machinery . . . . .	22.6	12	24.0	12	24.3	12
3551	Food products machinery . . . . .	5.2	12	5.2	12	5.2	12
3552	Textile machinery . . . . .	4.6	13	5.0	13	5.2	12
3555	Printing trades machinery . . . . .	4.1	13	4.4	13	4.5	13
356	General industrial machinery . . . . .	44.9	16	46.6	16	48.3	17
3561	Pumps and compressors . . . . .	10.0	13	10.2	13	10.4	14
3562	Ball and roller bearings . . . . .	13.5	23	13.9	23	15.0	24
3564	Blowers and fans . . . . .	6.1	19	6.3	20	6.3	20
3566	Power transmission equipment . . . . .	6.5	12	6.9	13	7.2	13
357	Office and computing machines . . . . .	79.0	27	82.0	28	77.4	28
3573	Electronic computing equipment . . . . .	51.8	27	53.4	27	50.5	27
358	Service industry machines . . . . .	23.8	17	24.1	17	24.4	16
3585	Refrigeration machinery . . . . .	13.9	14	14.3	15	14.5	15
359	Misc. machinery, except electrical . . . . .	31.6	14	34.1	15	34.5	15

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	July 1970		April 1970		July 1969	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<i>Durable Goods--Continued</i>						
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES . . . . .</b>	738.8	39	769.4	39	802.6	40
361	Electric test & distributing equipment . . . . .	67.7	31	71.2	32	68.0	32
3611	Electric measuring instruments . . . . .	29.3	42	31.8	43	30.3	42
3612	Transformers . . . . .	14.4	24	15.0	25	14.2	24
3613	Switchgear and switchboard apparatus . . . . .	24.0	28	24.4	28	23.5	28
362	Electrical industrial apparatus . . . . .	73.2	33	72.2	33	77.5	34
3621	Motors and generators . . . . .	38.9	33	38.5	33	42.2	34
3622	Industrial controls . . . . .	23.9	38	22.7	39	24.7	39
363	Household appliances . . . . .	44.5	25	46.6	25	46.7	25
3632	Household refrigerators and freezers . . . . .	10.1	16	9.8	16	10.6	17
3633	Household laundry equipment . . . . .	4.2	16	4.5	16	4.2	15
3634	Electric housewares and fans . . . . .	21.2	48	21.8	49	22.4	48
364	Electric lighting and wiring equipment . . . . .	88.0	44	92.9	44	86.5	43
3641	Electric lamps . . . . .	30.3	64	30.8	65	25.9	65
3642	Lighting fixtures . . . . .	20.5	33	21.7	33	21.6	34
3643,4	Wiring devices . . . . .	37.2	40	40.4	41	39.0	40
365	Radio and TV receiving equipment . . . . .	68.5	53	69.0	53	86.7	56
366	Communication equipment . . . . .	178.7	36	180.9	36	183.7	35
3661	Telephone and telegraph apparatus . . . . .	81.6	47	76.1	47	65.5	44
3662	Radio and TV communication equipment . . . . .	97.1	30	104.8	30	118.2	31
367	Electronic components and accessories . . . . .	181.2	52	199.1	54	216.0	56
3671-3	Electron tubes . . . . .	26.8	44	30.1	46	33.7	47
3674,9	Other electronic components . . . . .	154.4	54	169.0	55	182.3	58
369	Misc. electrical equipment & supplies . . . . .	37.0	31	37.5	32	37.5	31
3694	Engine electrical equipment . . . . .	19.4	32	19.1	31	19.7	31
37	<b>TRANSPORTATION EQUIPMENT . . . . .</b>	189.7	11	205.3	11	221.8	11
371	Motor vehicles and equipment . . . . .	67.1	8	74.7	9	73.0	9
3711	Motor vehicles . . . . .	23.4	7	25.9	7	24.1	7
3712	Passenger car bodies . . . . .	1.2	3	1.9	3	1.7	3
3713	Truck and bus bodies . . . . .	2.6	7	2.7	7	2.7	6
3714	Motor vehicle parts and accessories . . . . .	38.6	11	42.8	12	43.1	12
3715	Truck trailers . . . . .	1.3	5	1.4	5	1.4	5
372	Aircraft and parts . . . . .	96.2	14	103.2	14	121.8	15
3721	Aircraft . . . . .	55.5	15	59.8	15	73.0	15
3722	Aircraft engines and engine parts . . . . .	23.7	13	25.3	13	27.7	14
3723,9	Other aircraft parts and equipment . . . . .	17.0	14	18.1	14	21.1	15
373	Ship and boat building and repairing . . . . .	8.7	5	9.4	5	9.6	5
3731	Ship building and repairing . . . . .	5.7	4	5.7	4	5.9	4
3732	Boat building and repairing . . . . .	3.0	9	3.7	9	3.7	8
374	Railroad equipment . . . . .	3.4	7	3.8	7	3.4	6
375,9	Other transportation equipment . . . . .	14.3	14	14.2	14	14.0	13
38	<b>INSTRUMENTS AND RELATED PRODUCTS . . . . .</b>	165.7	36	173.6	37	173.6	36
381	Engineering & scientific instruments . . . . .	16.7	25	17.7	25	18.9	24
382	Mechanical measuring & control devices . . . . .	39.1	36	40.9	36	42.5	36
3821	Mechanical measuring devices . . . . .	21.3	31	22.0	31	22.4	31
3822	Automatic temperature controls . . . . .	17.8	45	18.9	46	20.1	46
383,5	Optical and ophthalmic goods . . . . .	21.6	41	23.1	42	21.7	40
385	Ophthalmic goods . . . . .	16.8	48	17.6	49	16.0	47
384	Medical instruments and supplies . . . . .	41.8	49	42.2	50	39.9	48
386	Photographic equipment and supplies . . . . .	28.2	25	28.4	26	29.1	26
387	Watches, clocks, and watchcases . . . . .	18.3	59	21.3	62	21.5	63
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES . . . . .</b>	181.7	44	184.5	44	190.9	44
391	Jewelry, silverware, and plated ware . . . . .	19.1	40	20.9	40	20.8	40
394	Toys and sporting goods . . . . .	60.9	53	58.5	52	66.5	53
3941-3	Games, toys, dolls, & play vehicles . . . . .	39.2	58	35.1	57	43.6	60
3949	Sporting and athletic goods, n e c . . . . .	21.7	45	23.4	45	22.9	45
395	Pens, pencils, office and art supplies . . . . .	18.5	53	18.2	53	17.0	51
396	Costume jewelry and notions . . . . .	30.0	55	31.4	55	32.6	56
393,9	Other manufacturing industries . . . . .	53.2	33	55.5	34	54.0	33
393	Musical instruments and parts . . . . .	7.7	37	7.8	35	8.6	35
	<i>Nondurable Goods</i>						
20	<b>FOOD AND KINDRED PRODUCTS . . . . .</b>	461.3	25	431.0	25	463.3	25
201	Meat products . . . . .	101.0	29	92.2	28	96.6	28
2011	Meat packing plants . . . . .	25.8	14	25.5	14	26.0	14
2013	Sausages and other prepared meats . . . . .	17.3	29	16.7	29	17.2	30
2015	Poultry dressing plants . . . . .	57.9	55	50.0	55	53.4	55
202	Dairy products . . . . .	40.9	16	39.0	16	41.3	16
2024	Ice cream and frozen desserts . . . . .	6.6	25	5.4	23	6.4	23

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**
**B-3: Women employees on nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	July 1970		April 1970		July 1969	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<i>Nonurable Goods--Continued</i>						
	<b>FOOD AND KINDRED PRODUCTS-- Continued</b>						
2026	Fluid milk . . . . .	24.2	14	23.9	14	24.6	14
203	Canned, cured, and frozen foods . . . . .	121.1	40	102.3	42	123.8	41
2031,6	Canned, cured, and frozen sea foods . . . . .	25.8	58	23.5	58	27.3	59
2032,3	Canned food, except sea foods . . . . .	51.2	33	33.6	31	55.3	34
2037	Frozen fruits and vegetables . . . . .	29.4	46	33.5	51	26.7	44
204	Grain mill products . . . . .	19.7	14	19.3	14	19.9	15
2041	Flour and other grain mill products . . . . .	3.1	11	3.1	11	3.1	11
2042	Prepared feeds for animals and fowls . . . . .	8.7	13	8.6	13	8.6	13
205	Bakery products . . . . .	70.9	25	70.0	25	69.4	24
2051	Bread, cake, and related products . . . . .	48.2	20	48.6	21	48.5	20
2052	Cookies and crackers . . . . .	22.7	47	21.4	47	20.9	47
206	Sugar . . . . .	2.8	9	2.8	9	2.8	9
207	Confectionery and related products . . . . .	37.5	47	38.3	47	40.4	49
2071	Confectionery products . . . . .	31.4	50	32.1	49	33.7	52
208	Beverages . . . . .	30.5	12	30.3	13	31.7	13
2082	Malt liquors . . . . .	3.9	6	3.9	7	4.0	7
2086	Bottled and canned soft drinks . . . . .	12.9	9	12.5	10	13.0	9
209	Misc. foods and kindred products . . . . .	36.9	26	36.8	26	37.4	26
21	<b>TOBACCO MANUFACTURES . . . . .</b>	30.3	42	31.1	44	30.4	42
211	Cigarettes . . . . .	14.8	35	14.5	35	14.4	35
212	Cigars . . . . .	11.7	69	12.3	70	11.7	70
22	<b>TEXTILE MILL PRODUCTS . . . . .</b>	431.6	46	446.7	46	453.4	46
221	Weaving mills, cotton . . . . .	90.5	41	90.8	41	92.3	41
222	Weaving mills, synthetics . . . . .	33.8	36	35.6	37	36.7	37
223	Weaving and finishing mills, wool . . . . .	13.8	37	15.4	37	15.5	37
224	Narrow fabric mills . . . . .	16.9	58	17.6	58	18.6	59
225	Knitting mills . . . . .	156.6	68	161.6	68	167.7	68
2251	Women's hosiery, except socks . . . . .	49.2	78	51.2	78	52.9	78
2252	Hosiery, n e c . . . . .	26.1	73	25.9	73	26.8	73
2253	Knit outerwear mills . . . . .	47.0	72	48.8	72	51.1	72
2254	Knit underwear mills . . . . .	20.0	69	21.5	71	23.0	71
226	Textile finishing, except wool . . . . .	21.8	27	22.2	27	20.7	26
227	Floor covering mills . . . . .	18.5	35	19.3	35	19.1	34
228	Yarn and thread mills . . . . .	59.5	46	62.2	47	60.6	47
229	Miscellaneous textile goods . . . . .	20.2	28	22.0	29	22.2	28
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS . . . . .</b>	1,083.2	80	1,117.8	81	1,098.0	80
231	Men's and boys' suits and coats . . . . .	89.7	74	93.9	72	93.0	73
232	Men's and boys' furnishings . . . . .	317.4	84	317.1	84	306.2	84
2321	Men's and boys' shirts and nightwear . . . . .	109.0	88	106.5	87	101.3	88
2327	Men's and boys' separate trousers . . . . .	65.3	81	66.0	82	66.3	82
2328	Men's and boys' work clothing . . . . .	69.0	82	70.7	83	68.0	82
233	Women's and misses' outerwear . . . . .	348.6	85	364.8	85	349.2	84
2331	Women's and misses' blouses and waists . . . . .	43.7	88	47.4	88	44.1	88
2335	Women's and misses' dresses . . . . .	165.9	87	181.7	87	164.9	86
2337	Women's and misses' suits and coats . . . . .	63.9	77	53.7	77	67.7	77
2339	Women's and misses' outerwear, n e c . . . . .	75.1	86	82.0	86	72.5	85
234	Women's and children's undergarments . . . . .	98.7	87	102.3	87	104.2	86
2341	Women's and children's underwear . . . . .	70.9	88	72.6	88	72.0	87
2342	Corsets and allied garments . . . . .	27.8	85	29.7	85	32.2	85
235	Hats, caps, and millinery . . . . .	12.2	70	13.1	72	14.7	71
236	Children's outerwear . . . . .	65.4	86	66.0	87	66.0	86
2361	Children's dresses and blouses . . . . .	29.3	90	29.7	90	30.5	89
237,8	Fur goods and miscellaneous apparel . . . . .	52.9	73	54.5	75	56.9	73
239	Misc. fabricated textile products . . . . .	98.3	64	106.1	65	107.8	65
2391,2	Housefurnishings . . . . .	44.6	72	46.1	73	46.4	73
26	<b>PAPER AND ALLIED PRODUCTS . . . . .</b>	147.6	21	151.5	21	150.8	21
261,2,6	Paper and pulp mills . . . . .	24.7	11	24.6	11	24.8	11
263	Paperboard mills . . . . .	5.4	8	5.7	8	5.7	8
264	Misc. converted paper products . . . . .	64.6	35	66.9	35	66.0	35
2643	Bags, except textile bags . . . . .	13.6	33	14.6	34	13.9	33
265	Paperboard containers and boxes . . . . .	52.9	24	54.3	24	54.3	24
2651,2	Folding and setup paperboard boxes . . . . .	22.8	34	23.5	34	23.5	34
2653	Corrugated and solid fiber boxes . . . . .	15.5	14	15.9	15	15.8	14
2654	Sanitary food containers . . . . .	9.8	32	9.8	33	9.4	32

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	July 1970		April 1970		July 1969	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
<i>Nondurable Goods--Continued</i>							
	<b>PRINTING AND PUBLISHING</b> . . . . .	359.1	33	359.3	32	349.1	32
27	Newspapers . . . . .	98.0	26	97.1	26	94.9	26
272	Periodicals . . . . .	35.9	48	35.7	48	35.2	47
273	Books . . . . .	47.6	48	48.4	48	45.8	47
275	Commercial printing . . . . .	97.1	27	98.0	27	93.6	27
2751	Commercial printing, ex. lithographic . . . . .	60.1	28	59.7	27	56.5	27
2752	Commercial printing, lithographic . . . . .	33.3	26	34.3	27	33.2	27
278	Blankbooks and bookbinding . . . . .	30.0	51	29.8	51	29.7	50
274,6,7,9	Other publishing & printing ind. . . . .	50.5	35	50.3	35	49.9	34
	<b>CHEMICALS AND ALLIED PRODUCTS</b> . . . . .	216.7	20	216.3	20	228.0	21
28	Industrial chemicals . . . . .	35.5	11	35.2	11	41.1	13
2812	Alkalies and chlorines . . . . .	1.7	8	1.7	8	1.8	8
2818	Industrial organic chemicals, n e c . . . . .	17.6	13	17.5	13	23.3	18
2819	Industrial inorganic chemicals, n e c . . . . .	10.1	10	9.8	10	9.9	10
282	Plastics materials and synthetics . . . . .	36.9	16	37.2	17	38.5	17
2821	Plastics materials and resins . . . . .	9.0	9	9.0	9	9.1	9
2823,4	Synthetic fibers . . . . .	26.8	23	27.1	24	28.3	24
283	Drugs . . . . .	59.4	39	59.3	39	58.9	40
2834	Pharmaceutical preparations . . . . .	48.9	42	49.2	42	48.9	43
284	Soap, cleaners, and toilet goods . . . . .	45.9	36	45.2	37	46.9	38
2841	Soap and other detergents . . . . .	9.4	22	8.8	22	9.1	22
2844	Toilet preparations . . . . .	26.1	52	26.3	53	27.8	56
285	Paints and allied products . . . . .	11.4	16	10.9	16	11.4	15
287	Agricultural chemicals . . . . .	5.9	11	6.1	9	5.8	11
2871,2	Fertilizers, complete & mixing only . . . . .	3.2	9	3.4	7	3.2	9
286,9	Other chemical products . . . . .	21.7	20	22.4	20	25.4	21
2892	Explosives . . . . .	8.3	24	8.8	24	11.2	24
	<b>PETROLEUM AND COAL PRODUCTS</b> . . . . .	18.3	9	17.9	9	17.7	9
291	Petroleum refining . . . . .	13.9	9	13.6	9	13.4	9
295,9	Other petroleum and coal products . . . . .	4.4	11	4.3	11	4.3	11
	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> . . . . .	178.2	31	184.8	32	185.9	32
301	Tires and inner tubes . . . . .	11.0	9	12.8	11	13.0	11
302,3,6	Other rubber products . . . . .	56.1	33	57.3	33	60.5	33
302	Rubber footwear . . . . .	13.2	57	13.3	56	13.4	54
307	Miscellaneous plastics products . . . . .	111.1	39	114.7	40	112.4	39
	<b>LEATHER AND LEATHER PRODUCTS</b> . . . . .	189.0	58	189.0	57	194.1	57
311	Leather tanning and finishing . . . . .	3.6	13	3.8	14	3.9	13
314	Footwear, except rubber . . . . .	139.4	63	138.0	63	141.5	63
312,3,5-7,9	Other leather products . . . . .	46.0	57	47.2	57	48.7	57
316	Luggage . . . . .	8.8	50	9.8	50	10.7	50
317	Handbags and personal leather goods . . . . .	23.7	68	22.9	68	24.3	67
	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> . . . . .	968	21	942	21	923	20
	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT</b> . . . . .	22.6	8	31.9	11	21.1	8
411	Local and suburban transportation . . . . .	4.8	6	4.9	6	4.9	6
412	Taxicabs . . . . .	5.1	4	5.2	5	5.2	5
413	Intercity highway transportation . . . . .	4.4	10	4.1	10	4.6	10
	<b>TRUCKING AND WAREHOUSING</b> . . . . .	100.9	9	97.0	9	97.5	9
421,3	Trucking and trucking terminals . . . . .	89.9	9	86.0	9	86.0	8
422	Public warehousing . . . . .	11.0	13	11.0	13	11.5	13
	<b>TRANSPORTATION BY AIR</b> . . . . .	89.0	26	87.9	25	91.6	25
451,2	Air transportation . . . . .	86.2	28	85.1	27	88.9	27
	<b>PIPE LINE TRANSPORTATION</b> . . . . .	1.4	8	1.4	8	1.5	8
44	WATER TRANSPORTATION . . . . .	16.5	8	16.0	7	16.6	7
47	TRANSPORTATION SERVICES . . . . .	23.6	22	23.0	22	22.9	22
	<b>COMMUNICATION</b> . . . . .	576.9	50	552.0	50	537.2	50
481	Telephone communication . . . . .	529.8	55	505.4	55	492.2	55
483	Radio and television broadcasting . . . . .	32.7	24	32.3	24	31.3	24
	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b> . . . . .	106.1	15	102.3	15	103.0	15
491	Electric companies and systems . . . . .	43.6	15	42.1	15	42.5	15
492	Gas companies and systems . . . . .	28.0	17	27.3	17	27.5	17

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**
**B-3: Women employees on nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	July 1970		April 1970		July 1969	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<i>Nondurable Goods--Continued</i>						
	<b>ELECTRIC, GAS, AND SANITARY SERVICES--Cont'd</b>						
493	Combination companies and systems . . . . .	27.4	14	26.1	14	26.4	14
494-7	Water, steam, & sanitary systems . . . . .	7.1	13	6.8	13	6.6	13
-	<b>WHOLESALE AND RETAIL TRADE . . . . .</b>	5,868	39	5,866	40	5,767	39
50	<b>WHOLESALE TRADE . . . . .</b>	887	23	869	23	864	23
501	Motor vehicles & automotive equipment . . . . .	63.8	19	61.8	19	59.0	19
502	Drugs, chemicals, and allied products . . . . .	82.7	35	81.5	35	77.9	34
503	Dry goods and apparel . . . . .	69.5	46	69.9	47	68.3	46
504	Groceries and related products . . . . .	125.7	22	114.6	21	123.5	22
506	Electrical goods . . . . .	80.9	24	78.9	24	75.3	24
507	Hardware; plumbing & heating equipment . . . . .	39.8	23	39.7	23	38.5	22
508	Machinery, equipment, and supplies . . . . .	137.0	18	137.6	18	135.6	18
509	Miscellaneous wholesalers . . . . .	274.5	22	271.2	22	269.8	22
52-59	<b>RETAIL TRADE . . . . .</b>	4,981	45	4,997	45	4,903	45
53	<b>RETAIL GENERAL MERCHANDISE . . . . .</b>	1,526.9	69	1,552.3	69	1,497.9	68
531	Department stores . . . . .	995.7	69	1,014.6	69	978.9	69
532	Mail order houses . . . . .	72.1	61	74.1	61	71.5	59
533	Variety stores . . . . .	241.5	78	251.3	78	242.2	79
54	<b>FOOD STORES . . . . .</b>	605.9	35	608.6	35	577.1	35
541-3	Grocery, meat, and vegetables stores . . . . .	507.4	33	509.8	33	483.7	32
56	<b>APPAREL AND ACCESSORY STORES . . . . .</b>	448.8	66	467.5	66	458.8	67
561	Men's & boys' clothing & furnishings . . . . .	52.0	41	52.3	41	49.1	41
562	Women's ready-to-wear stores . . . . .	224.4	88	235.1	88	230.6	88
565	Family clothing stores . . . . .	68.5	70	69.9	70	73.0	70
566	Shoe stores . . . . .	50.2	38	54.3	38	53.2	39
57	<b>FURNITURE AND HOME FURNISHINGS STORES . . . . .</b>	133.6	30	136.1	30	136.9	30
571	Furniture and home furnishings . . . . .	87.1	31	88.4	31	88.7	31
58	<b>EATING AND DRINKING PLACES . . . . .</b>	1,441.2	57	1,411.3	57	1,422.7	57
52,55,59	<b>OTHER RETAIL TRADE . . . . .</b>	825.0	24	821.6	24	809.6	24
52	Building materials and farm equipment . . . . .	92.6	16	90.4	17	90.4	16
55	Automotive dealers & service stations . . . . .	192.4	12	188.7	12	188.6	12
551,2	Motor vehicle dealers . . . . .	87.0	11	87.0	11	87.1	11
553,9	Other automotive & accessory dealers . . . . .	32.3	14	31.5	14	32.2	14
59	Miscellaneous retail stores . . . . .	540.0	45	542.5	44	530.6	45
591	Drug stores and proprietary stores . . . . .	264.0	61	263.3	60	262.9	60
594	Book and stationery stores . . . . .	28.4	45	29.9	45	26.3	43
596	Farm and garden supply stores . . . . .	19.8	18	22.9	20	20.8	20
598	Fuel and ice dealers . . . . .	16.9	17	18.2	17	17.3	17
-	<b>FINANCE, INSURANCE, AND REAL ESTATE . . . . .</b>	1,937	52	1,898	52	1,866	51
60	Banking . . . . .	676.5	63	655.7	63	634.3	63
61	Credit agencies other than banks . . . . .	208.5	56	204.6	55	201.8	55
612	Savings and loan associations . . . . .	73.5	66	71.1	66	69.5	66
614	Personal credit institutions . . . . .	94.6	48	94.2	48	95.0	49
62	Security, commodity brokers & services . . . . .	66.8	35	72.9	35	81.9	36
63	Insurance carriers . . . . .	556.3	52	541.9	52	524.9	52
631	Life insurance . . . . .	246.5	44	240.0	44	234.2	45
632	Accident and health insurance . . . . .	68.9	72	66.9	72	63.5	72
633	Fire, marine, and casualty insurance . . . . .	214.6	57	209.6	57	201.0	56
64	Insurance agents, brokers, and service . . . . .	160.1	57	156.1	57	154.7	58
65	Real estate . . . . .	228.1	34	225.1	35	226.4	34
655	Subdividers and developers . . . . .	18.1	19	17.9	22	17.1	18
656	Operative builders . . . . .	7.4	17	7.4	18	7.2	15
66,67	Other finance, insurance, & real estate . . . . .	41.1	49	41.5	50	42.1	50
-	<b>SERVICES . . . . .</b>	6,245	53	6,268	54	6,064	53
	<b>Hotels and other lodging places:</b>						
701	Hotels, tourist courts, and motels . . . . .	369.3	51	340.5	51	371.7	51
72	Personal services . . . . .	607.8	61	620.7	62	633.1	61
721	Laundries and dry cleaning plants . . . . .	335.5	65	336.1	66	360.6	66
722	Photographic studios . . . . .	19.9	55	23.6	59	20.4	55

**ESTABLISHMENT DATA  
WOMEN EMPLOYEES**

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

SIC Code	Industry	July 1970		April 1970		July 1969	
		Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment	Number (in thousands)	Percent of total employment
	<i>Nondurable Goods--Continued</i>						
	<b>SERVICES - Continued</b>						
73	Miscellaneous business services . . . . .	523.5	34	523.2	34	522.8	34
731	Advertising . . . . .	52.5	43	52.5	43	51.7	42
732	Credit reporting and collection . . . . .	55.3	71	55.2	72	56.0	73
734	Services to buildings . . . . .	95.7	32	93.4	32	81.8	30
76	Miscellaneous repair services . . . . .	27.2	15	28.0	15	26.8	15
78	Motion pictures . . . . .	70.7	35	66.3	36	71.7	33
781	Motion picture filming & distributing . . . . .	15.0	30	14.4	34	17.0	29
782,3	Motion picture theaters and services . . . . .	55.7	37	51.9	36	54.7	35
80	Medical and other health services . . . . .	2,522.1	81	2,456.4	81	2,341.8	81
806	Hospitals . . . . .	1,543.3	81	1,508.9	81	1,451.3	81
81	Legal services . . . . .	153.0	62	146.6	63	142.5	62
82	Educational services . . . . .	453.9	45	575.2	48	441.6	45
821	Elementary and secondary schools . . . . .	190.0	56	244.5	61	179.9	56
822	Colleges and universities . . . . .	221.4	38	284.1	41	221.4	39
89	Miscellaneous services . . . . .	153.5	23	159.2	24	147.8	23
891	Engineering & architectural services . . . . .	45.5	15	45.9	15	46.5	15
892	Nonprofit research agencies . . . . .	31.8	30	32.3	30	32.5	30
-	<b>GOVERNMENT . . . . .</b>	4,850	40	5,505	43	4,513	38
91	<b>FEDERAL GOVERNMENT . . . . .</b>	714	26	767	27	744	26
92,93	<b>STATE AND LOCAL GOVERNMENT . . . . .</b>	4,136	44	4,738	48	3,769	42
92	State government . . . . .	1,043.2	40	1,115.5	42	987.1	40
	State education . . . . .	374.8	39	457.1	40	350.3	39
	Other State government . . . . .	668.4	41	658.4	43	636.8	41
93	Local government . . . . .	3,093.0	45	3,622.1	50	2,781.6	43
	Local education . . . . .	2,021.9	58	2,614.8	63	1,774.7	54
	Other local government . . . . .	1,071.1	32	1,007.3	33	1,006.9	32



## ESTABLISHMENT DATA

## SEASONALLY ADJUSTED EMPLOYMENT

B-4: Indexes of employment on nonagricultural payrolls, by industry division,  
1919 to date, monthly data seasonally adjusted

1957-59=100

Year and month	TOTAL	Mining	Contract construction	Manufacturing	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government		
						Total	Wholesale trade	Retail trade			Total	Federal	State and local
1919.....	51.6	147.1	35.4	64.2	91.0	41.3	-	-	43.9	32.8	34.1	-	-
1920.....	52.1	160.9	29.4	64.2	98.1	40.9	-	-	46.4	34.3	33.2	-	-
1921.....	46.4	124.9	35.1	49.7	84.9	42.0	-	-	46.0	35.0	32.2	-	-
1922.....	49.2	120.6	41.0	54.9	86.0	44.9	-	-	45.2	36.3	32.3	-	-
1923.....	54.1	157.4	42.6	62.1	95.2	48.4	-	-	47.0	38.9	33.2	-	-
1924.....	53.4	143.0	45.8	58.3	93.4	49.5	-	-	48.7	40.3	34.7	-	-
1925.....	54.8	141.4	50.1	59.9	93.9	51.1	-	-	48.7	41.6	35.7	-	-
1926.....	56.8	153.9	53.9	61.2	96.7	53.0	-	-	51.6	44.2	36.3	-	-
1927.....	57.1	144.7	55.7	60.3	95.6	54.1	-	-	54.0	45.9	37.2	-	-
1928.....	57.1	136.4	55.6	59.9	93.9	53.8	-	-	56.7	47.4	38.2	-	-
1929.....	59.7	141.2	51.9	64.5	96.1	56.1	-	-	59.6	49.9	39.1	24.1	45.0
1930.....	56.0	131.0	47.5	57.6	90.4	53.1	-	-	58.3	49.0	40.1	23.8	46.6
1931.....	50.7	113.4	42.1	49.2	79.8	48.4	-	-	55.6	46.2	41.6	25.3	48.0
1932.....	45.0	94.9	33.6	41.8	69.1	42.9	-	-	53.0	42.5	41.1	25.2	47.3
1933.....	45.1	96.6	28.0	44.6	65.6	43.5	-	-	51.2	41.7	40.4	25.5	46.2
1934.....	49.4	114.7	29.9	51.2	67.5	48.4	-	-	52.1	44.4	42.0	29.4	47.0
1935.....	51.5	116.5	31.6	54.6	68.4	49.7	-	-	52.8	45.6	44.4	34.0	48.4
1936.....	55.4	122.9	39.7	59.2	72.9	53.2	-	-	54.9	48.2	46.7	37.3	50.5
1937.....	59.1	131.8	38.5	65.0	76.9	57.4	-	-	56.6	51.0	47.9	37.6	51.9
1938.....	55.6	115.7	36.5	56.9	70.2	56.6	-	-	56.3	50.4	49.5	37.4	54.2
1939.....	58.3	110.9	39.8	61.9	72.0	58.8	58.1	59.1	57.8	51.0	50.9	40.9	54.9
1940.....	61.6	120.1	44.8	66.2	74.5	61.8	60.6	62.3	59.4	53.4	53.6	45.0	56.9
1941.....	69.6	124.3	6.20	79.5	80.3	66.0	64.7	66.5	61.2	56.9	59.4	60.5	58.9
1942.....	76.4	128.8	75.2	92.1	84.9	65.2	62.9	66.0	60.8	59.2	69.9	100.0	58.1
1943.....	80.8	120.1	54.3	106.0	89.5	63.9	60.1	65.3	59.4	60.2	77.5	131.2	56.4
1944.....	79.7	115.8	37.9	104.4	93.9	64.6	60.8	66.0	58.3	60.4	77.0	132.2	55.3
1945.....	76.9	108.6	39.2	93.5	95.8	67.0	64.3	67.9	59.2	61.5	75.8	126.8	55.7
1946.....	79.3	111.9	57.5	88.6	99.6	76.7	75.6	77.1	67.1	68.4	71.3	101.8	59.3
1947.....	83.5	124.0	68.7	93.7	102.2	82.0	81.5	82.2	69.3	73.2	69.8	85.5	63.6
1948.....	85.5	129.1	75.1	93.9	102.8	84.9	85.9	84.5	72.3	75.5	72.0	84.1	67.2
1949.....	83.4	120.8	75.0	87.0	98.2	84.8	85.9	84.5	73.4	76.3	74.6	86.2	70.1
1950.....	86.1	117.0	80.8	91.8	99.0	85.9	86.9	85.6	75.8	78.1	76.8	87.1	72.8
1951.....	91.1	120.6	90.2	98.8	103.7	89.2	90.0	88.9	78.7	80.9	81.4	104.0	72.6
1952.....	93.0	116.6	91.2	100.2	104.2	91.6	92.8	91.2	81.8	83.1	84.2	109.3	74.4
1953.....	95.6	112.5	90.9	105.7	105.3	93.8	94.2	93.7	84.8	85.1	84.7	104.1	77.1
1954.....	93.3	102.7	90.5	98.3	100.2	93.7	94.6	93.4	88.3	87.0	86.0	98.8	81.0
1955.....	96.5	102.9	97.1	101.7	101.6	96.5	96.5	96.4	92.3	91.0	88.1	98.8	83.9
1956.....	99.8	106.8	103.9	103.9	104.1	99.4	99.6	99.4	96.0	94.8	92.7	99.8	90.0
1957.....	100.7	107.5	101.2	103.5	104.0	99.7	99.9	99.6	97.9	97.9	97.1	100.1	95.9
1958.....	97.8	97.5	96.2	96.1	97.5	98.4	98.3	98.5	99.6	98.7	99.9	99.0	100.3
1959.....	101.5	95.1	102.5	100.5	98.4	101.9	101.7	102.0	102.5	103.4	103.0	100.9	103.9
1960.....	103.3	92.5	99.9	101.2	98.2	104.3	103.7	104.5	105.5	107.7	106.5	102.5	108.0
1961.....	102.9	87.3	97.5	98.4	95.8	103.8	103.3	104.0	107.9	111.2	109.5	102.9	112.1
1962.....	105.9	84.4	100.5	101.5	95.8	105.9	105.5	106.1	110.7	116.4	113.3	105.7	116.3
1963.....	108.0	82.5	102.5	102.4	95.8	107.8	107.2	108.1	113.7	120.7	117.6	106.5	121.9
1964.....	111.1	82.3	105.6	104.1	96.9	111.3	110.1	111.8	116.9	126.3	122.3	106.1	128.7
1965.....	115.8	82.1	110.4	108.8	99.0	116.4	114.4	117.2	119.5	131.8	128.4	107.4	136.6
1966.....	121.8	81.4	113.4	115.8	101.8	121.3	118.7	122.2	122.5	138.5	137.5	115.8	146.1
1967.....	125.4	79.6	111.1	117.2	104.5	124.6	121.7	125.6	127.5	146.5	145.3	122.8	154.1
1968.....	129.3	78.7	113.8	119.2	105.7	129.0	124.7	130.5	133.7	154.1	151.0	123.6	161.7
1969.....	133.8	80.4	119.1	121.5	108.7	134.1	129.1	135.9	140.6	162.6	155.5	124.6	167.7
1969: October..	134.9	80.8	119.3	121.9	109.5	135.7	130.4	137.7	142.1	164.8	156.7	123.7	169.6
1969: November..	134.8	81.0	120.3	121.0	109.5	135.9	130.6	137.9	142.7	165.1	157.1	123.3	170.3
1969: December..	134.9	81.4	121.1	122.0	109.7	135.1	131.4	136.4	143.3	165.8	157.5	122.9	171.2
1970: January..	135.2	81.2	117.6	120.6	110.5	136.8	132.1	138.4	144.2	166.4	157.9	122.7	171.8
1970: February..	135.4	81.3	120.1	120.1	110.3	137.2	132.4	139.0	144.3	167.3	158.6	122.8	172.6
1970: March....	135.6r	81.3	120.6	120.2	110.5	137.2	132.8	138.8	144.9	167.3	159.4r	124.9r	172.9
1970: April....	135.5	80.8	118.7	119.3	109.6	137.3	133.0	138.8	145.2	167.7	160.7r	128.2r	173.5
1970: May.....	134.9	80.5	116.1	117.9	109.9	137.1	133.3	138.4	145.3	167.8	160.6r	125.0r	174.6
1970: June.....	134.5r	80.5	115.1	117.3	110.7	136.7	132.9	138.0	145.4	167.3	160.1r	121.5r	175.2
1970: July.....	134.4r	80.3	114.8	116.9	111.4	136.7	133.1	138.0	145.3	167.0	160.5r	120.5r	176.2
1970: August....	134.1	80.4	114.5	116.1	110.9	136.5	132.6	138.0	145.1	167.1	160.5	120.1	176.4
1970: September <sup>p</sup>	134.4	80.6	112.7	116.3	110.7	137.1	132.9	138.6	145.5	168.6	161.2	119.6	177.5
1970: October.. <sup>p</sup>	133.5	80.6	112.4	112.6	110.5	137.5	133.5	139.0	146.0	169.5	161.4	119.8	177.8

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

p = preliminary.

r = revised.

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

**B-5: Employees on nonagricultural payrolls, by industry, seasonally adjusted**

(In thousands)

Industry division and group	1970										1969		
	Oct. P	Sept. P	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>TOTAL</b> .....	70,129	70,610	70,414	70,587 <sup>r</sup>	70,629 <sup>r</sup>	70,839 <sup>r</sup>	71,149 <sup>r</sup>	71,242 <sup>r</sup>	71,135	70,992	70,842	70,808	70,836
<b>MINING</b> .....	621	621	619	618	620	620	622	626	626	625	627	624	622
<b>CONTRACT CONSTRUCTION</b> .....	3,246	3,253	3,305	3,314	3,324	3,351	3,426	3,481	3,466	3,394	3,496	3,473	3,445
<b>MANUFACTURING</b> .....	18,689	19,298	19,271	19,402	19,477	19,572	19,795	19,944	19,937	20,018	20,082	20,082	20,233
<b>DURABLE GOODS</b> .....	10,621	11,146	11,134	11,217	11,286	11,386	11,529	11,648	11,625	11,679	11,773	11,782	11,965
Ordnance and accessories .....	223	237	240	243	250	256	261	271	277	281	290	296	298
Lumber and wood products .....	574	575	570	570	575	582	585	593	598	605	606	603	601
Furniture and fixtures .....	454	458	453	454	453	456	468	471	472	477	478	479	483
Stone, clay, and glass products .....	630	635	631	628	636	638	644	651	657	653	659	659	658
Primary metal industries .....	1,260	1,313	1,298	1,301	1,305	1,309	1,323	1,337	1,349	1,360	1,380	1,384	1,386
Fabricated metal products .....	1,356	1,395	1,387	1,387	1,388	1,394	1,411	1,425	1,428	1,436	1,447	1,444	1,445
Machinery, except electrical .....	1,881	1,924	1,939	1,969	1,982	2,004	2,032	2,046	2,048	2,043	2,051	2,043	2,050
Electrical equipment .....	1,834	1,902	1,903	1,934	1,936	1,956	1,979	1,995	1,993	1,922	1,930	1,934	2,051
Transportation equipment .....	1,558	1,838	1,841	1,853	1,876	1,897	1,925	1,950	1,890	1,988	2,009	2,028	2,078
Instruments and related products .....	439	451	453	458	461	468	471	472	472	474	476	476	476
Miscellaneous manufacturing .....	412	418	419	420	424	426	430	437	441	440	447	436	439
<b>NONDURABLE GOODS</b> .....	8,068	8,152	8,137	8,185	8,191	8,186	8,266	8,296	8,312	8,339	8,309	8,300	8,268
Food and kindred products .....	1,757	1,785	1,784	1,789	1,800	1,805	1,805	1,823	1,830	1,817	1,805	1,806	1,780
Tobacco manufactures .....	74	74	82	81	81	81	81	81	80	80	77	80	81
Textile mill products .....	945	955	954	955	959	971	979	980	987	999	995	993	991
Apparel and other textile products .....	1,370	1,383	1,376	1,393	1,385	1,375	1,394	1,396	1,398	1,416	1,410	1,405	1,406
Paper and allied products .....	702	707	703	706	711	714	721	721	720	721	721	718	716
Printing and publishing .....	1,100	1,105	1,103	1,105	1,103	1,108	1,111	1,113	1,113	1,113	1,110	1,109	1,106
Chemicals and allied products .....	1,052	1,056	1,053	1,054	1,055	1,060	1,063	1,066	1,067	1,068	1,067	1,064	1,062
Petroleum and coal products .....	192	191	191	191	193	192	193	194	193	193	192	191	191
Rubber and plastics products, nec .....	553	572	567	578	570	548	585	589	591	595	594	596	596
Leather and leather products .....	323	324	324	333	334	332	334	333	333	337	339	338	339
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	4,506	4,512	4,520	4,539	4,511	4,478	4,468	4,502	4,496	4,507	4,469	4,464	4,463
<b>WHOLESALE AND RETAIL TRADE</b> .....	15,018	14,972	14,912	14,933	14,927	14,968	14,991	14,984	14,987	14,938	14,750	14,848	14,824
<b>WHOLESALE TRADE</b> .....	3,865	3,850	3,840	3,856	3,849	3,859	3,853	3,847	3,834	3,828	3,807	3,782	3,775
<b>RETAIL TRADE</b> .....	11,153	11,122	11,072	11,077	11,078	11,109	11,138	11,137	11,153	11,110	10,943	11,066	11,049
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	3,695	3,681	3,670	3,676	3,679	3,677	3,673	3,665	3,652	3,648	3,626	3,611	3,596
<b>SERVICES</b> .....	11,688	11,626	11,521	11,514	11,532	11,572	11,564	11,537	11,530	11,472	11,431	11,383	11,361
Hotels and other lodging places .....	-	749	715	722	749	764	768	772	770	775	770	760	761
Personal services .....	-	989	983	989	1,000	1,005	1,006	1,015	1,018	1,016	1,016	1,021	1,025
Medical and other health services .....	-	3,128	3,102	3,086	3,070	3,058	3,034	3,025	3,007	2,992	2,973	2,950	2,931
Educational services .....	-	1,157	1,143	1,147	1,145	1,146	1,151	1,143	1,145	1,125	1,129	1,125	1,122
<b>GOVERNMENT</b> .....	12,666	12,647	12,596	12,591 <sup>r</sup>	12,559 <sup>r</sup>	12,601 <sup>r</sup>	12,610 <sup>r</sup>	12,503 <sup>r</sup>	12,441	12,390	12,361	12,323	12,292
<b>FEDERAL</b> .....	2,653	2,649	2,659	2,668 <sup>r</sup>	2,689 <sup>r</sup>	2,768 <sup>r</sup>	2,838 <sup>r</sup>	2,766 <sup>r</sup>	2,718	2,717	2,721	2,730	2,739
<b>STATE AND LOCAL</b> .....	10,013	9,998	9,937	9,923	9,870	9,833	9,772	9,737	9,723	9,673	9,640	9,593	9,553

p - preliminary.  
r=revised.

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

**B-6: Production workers in industrial and construction activities<sup>1</sup>**  
**seasonally adjusted**

Major industry group	1970										1969		
	Oct. p	Sept. p	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>TOTAL</b> . . . . .	16,589	17,187	17,201	17,327	17,382	17,447	17,734	17,905	17,878	17,890	18,062	18,041	18,172
<b>MINING</b> . . . . .	471	471	469	469	471	470	474	476	477	477	477	475	475
<b>CONTRACT CONSTRUCTION</b> . . . . .	2,702	2,703	2,758	2,768	2,771	2,797	2,871	2,917	2,912	2,840	2,947	2,928	2,903
<b>MANUFACTURING</b> . . . . .	13,416	14,013	13,974	14,090	14,140	14,180	14,389	14,512	14,489	14,573	14,638	14,638	14,794
<b>DURABLE GOODS</b> . . . . .	7,526	8,039	8,019	8,082	8,134	8,186	8,318	8,409	8,367	8,425	8,516	8,522	8,703
Ordnance and accessories . . . . .	117	128	129	131	137	141	143	151	155	156	164	168	170
Lumber and wood products . . . . .	494	495	491	491	495	501	504	511	515	523	524	522	520
Furniture and fixtures . . . . .	373	378	372	373	372	375	386	390	390	395	396	397	401
Stone, clay, and glass products . . . . .	501	505	500	499	505	506	512	517	522	520	527	526	526
Primary metal industries . . . . .	994	1,045	1,031	1,033	1,034	1,037	1,049	1,063	1,072	1,086	1,103	1,108	1,112
Fabricated metal products . . . . .	1,028	1,066	1,060	1,058	1,057	1,060	1,079	1,087	1,090	1,100	1,110	1,106	1,107
Machinery, except electrical . . . . .	1,237	1,280	1,288	1,316	1,321	1,340	1,366	1,381	1,381	1,383	1,391	1,384	1,391
Electrical equipment and supplies . . . . .	1,206	1,266	1,266	1,289	1,297	1,294	1,313	1,323	1,319	1,246	1,255	1,264	1,373
Transportation equipment . . . . .	998	1,283	1,285	1,290	1,309	1,317	1,345	1,358	1,291	1,384	1,403	1,418	1,468
Instruments and related products . . . . .	263	272	274	278	280	286	289	289	289	289	292	292	293
Miscellaneous manufacturing industries . . . . .	315	321	323	324	327	329	332	339	343	343	351	337	342
<b>NONDURABLE GOODS</b> . . . . .	5,890	5,974	5,955	6,008	6,006	5,994	6,071	6,103	6,122	6,148	6,122	6,116	6,091
Food and kindred products . . . . .	1,173	1,200	1,198	1,203	1,214	1,216	1,217	1,235	1,241	1,226	1,213	1,214	1,187
Tobacco manufactures . . . . .	61	62	69	67	67	68	67	67	67	67	64	67	68
Textile mill products . . . . .	828	838	837	839	842	852	860	861	867	878	874	873	872
Apparel and other textile products . . . . .	1,201	1,213	1,206	1,223	1,214	1,206	1,221	1,223	1,226	1,242	1,238	1,233	1,234
Paper and allied products . . . . .	539	545	540	544	549	551	556	558	557	558	557	554	554
Printing and publishing . . . . .	675	681	676	680	679	681	687	690	690	691	691	690	689
Chemicals and allied products . . . . .	602	606	602	605	603	606	610	613	616	619	620	619	619
Petroleum and coal products . . . . .	116	115	117	118	118	118	118	119	119	119	118	118	118
Rubber and plastics products, nec . . . . .	419	438	433	444	434	412	450	453	454	459	457	459	460
Leather and leather products . . . . .	276	276	277	285	286	284	285	284	285	289	290	289	290

<sup>1</sup>For mining and manufacturing, data refer to production and related workers; for contract construction, data relate to construction workers.

p - preliminary.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-7: Employees on nonagricultural payrolls**

(In thousands)

	State and area	TOTAL			Mining			Contract construction			Manufacturing		
		Sept. 1970	Aug. 1970	Sept. 1969	Sept. 1970	Aug. 1970	Sept. 1969	Sept. 1970	Aug. 1970	Sept. 1969	Sept. 1970	Aug. 1970	Sept. 1969
1	ALABAMA .....	997.9	1,005.0	1,012.0	8.6	8.6	8.3	47.4	56.2	57.9	319.8	322.0	328.0
2	Birmingham .....	249.7	260.3	257.2	5.7	5.7	5.5	7.6	16.8	16.1	71.0	71.2	72.7
3	Huntsville .....	76.4	76.1	77.6	(1)	(1)	(1)	2.9	3.0	3.1	12.7	12.8	12.3
4	Mobile .....	105.1	105.4	106.0	(1)	(1)	(1)	6.7	6.6	6.8	24.8	25.8	25.1
5	Montgomery .....	69.4	70.0	69.3	(1)	(1)	(1)	5.0	5.2	5.8	10.9	10.8	10.7
6	Tuscaloosa .....	37.4	36.5	37.3	(1)	(1)	(1)	3.0	2.9	2.8	10.3	10.4	10.2
7	ALASKA .....	(*)	99.6	91.3	(*)	2.8	3.6	(*)	9.7	10.2	(*)	12.1	6.7
8	ARIZONA .....	540.6	536.2	516.7	20.5	20.8	18.4	34.7	33.8	34.0	89.6	89.8	94.7
9	Phoenix .....	320.0	315.3	308.3	.2	.2	.2	18.7	18.1	19.0	69.2	69.4	75.5
10	Tucson .....	105.8	103.7	98.2	6.5	6.6	5.5	9.7	9.6	9.6	9.3	9.4	8.6
11	ARKANSAS .....	538.4	536.2	539.7	4.1	4.2	4.5	30.2	30.8	32.2	166.7	166.6	169.8
12	Fayetteville .....	26.1	25.4	25.8	(1)	(1)	(1)	1.5	1.4	1.3	7.6	7.7	7.9
13	Fort Smith .....	45.0	44.8	45.3	.5	.5	.5	3.4	3.3	3.4	15.7	15.9	16.1
14	Little Rock-North Little Rock .....	122.2	124.0	124.2	(1)	(1)	(1)	8.3	9.6	9.5	26.7	26.7	28.2
15	Pine Bluff .....	24.4	23.8	24.6	(1)	(1)	(1)	1.2	1.1	1.2	5.5	5.5	5.8
16	CALIFORNIA .....	7,053.7	7,043.5	7,013.3	31.9	32.0	33.0	305.3	311.2	308.9	1,588.1	1,591.6	1,714.6
17	Anaheim-Santa Ana-Garden Grove 2 .....	427.9	425.5	411.6	1.8	1.8	2.0	23.5	23.9	21.2	120.6	119.8	129.9
18	Bakersfield .....	89.9	90.4	90.3	6.6	6.6	7.1	4.2	4.2	5.1	8.1	8.0	8.0
19	Fresno .....	122.8	122.3	122.1	.9	.9	.7	4.9	5.0	5.3	20.0	20.4	21.1
20	Los Angeles-Long Beach .....	2,904.3	2,902.1	2,902.5	11.2	11.3	12.0	107.9	109.4	104.1	803.5	807.1	881.6
21	Modesto-Turlock .....	61.9	61.3	62.4	.1	.1	.1	3.2	3.3	3.0	21.4	21.3	22.1
22	Oxnard-Ventura 2 .....	95.5	94.8	93.3	1.9	1.9	1.9	5.1	5.1	4.9	14.0	13.4	15.2
23	Sacramento .....	270.3	266.8	266.1	.1	.1	.1	12.9	12.7	12.6	26.5	25.0	27.2
24	Salinas-Monterey .....	64.9	65.1	63.6	.5	.5	.4	2.6	2.6	2.8	7.9	8.0	7.9
25	San Bernardino-Riverside-Ontario 2 .....	294.5	292.1	287.7	2.5	2.4	2.3	14.6	14.7	14.4	53.7	53.3	54.6
26	San Diego 2 .....	388.7	389.8	382.7	.5	.5	.6	20.7	21.1	20.7	66.5	67.2	70.5
27	San Francisco-Oakland .....	1,282.0	1,278.8	1,280.8	1.8	1.8	1.8	63.4	63.8	65.6	203.1	206.2	218.4
28	San Jose .....	381.5	378.4	378.7	.2	.2	.1	18.3	18.7	18.6	128.7	127.4	137.3
29	Santa Barbara 2 .....	82.7	80.9	81.4	1.0	1.0	1.2	3.5	3.6	4.0	10.4	10.4	10.8
30	Santa Rosa .....	51.8	51.1	50.6	.4	.4	.4	2.5	2.4	2.9	7.6	7.8	7.6
31	Stockton .....	95.0	93.3	95.6	.1	.1	.1	3.6	3.7	3.7	21.3	20.3	22.9
32	Vallejo-Napa .....	68.4	68.1	68.4	.2	.2	.2	2.5	2.6	2.7	7.6	7.7	7.8
33	COLORADO .....	739.0	734.2	718.1	13.9	13.8	13.7	44.3	44.2	40.9	115.2	114.0	117.3
34	Denver .....	476.6	474.6	463.2	4.3	4.4	4.6	31.4	31.4	27.0	82.9	82.4	83.4
35	CONNECTICUT .....	1,191.3	1,178.8	1,204.8	(3)	(3)	(3)	61.0	61.5	61.6	441.1	435.2	471.9
36	Bridgeport .....	150.7	151.9	157.3	(3)	(3)	(3)	7.0	7.2	6.7	67.5	67.6	76.8
37	Hartford .....	323.4	319.7	321.9	(3)	(3)	(3)	16.9	16.9	16.4	101.0	97.9	106.3
38	New Britain .....	45.8	44.3	47.2	(3)	(3)	(3)	2.1	2.2	2.3	23.7	23.2	24.9
39	New Haven .....	155.7	155.7	155.2	(3)	(3)	(3)	8.7	8.8	8.8	42.2	41.5	43.5
40	Stamford .....	83.9	84.7	80.3	(3)	(3)	(3)	4.1	4.3	4.0	28.6	28.7	27.7
41	Waterbury .....	76.7	76.6	80.6	(3)	(3)	(3)	3.4	3.8	3.7	35.6	35.7	39.9
42	DELAWARE .....	206.6	206.9	210.4	(1)	(1)	(1)	13.1	13.8	13.6	71.5	69.1	75.2
43	Wilmington .....	186.6	187.0	190.0	(1)	(1)	(1)	12.1	12.8	12.8	69.0	66.4	72.1
44	DISTRICT OF COLUMBIA 4 .....	679.7	692.9	672.1	(1)	(1)	(1)	17.5	17.9	20.8	19.8	20.1	20.3
45	Washington SMSA .....	1,133.5	1,148.0	1,120.3	(1)	(1)	(1)	68.1	70.7	70.7	44.4	45.0	45.4
46	FLORIDA .....	2,128.9	2,091.5	2,073.0	7.8	7.9	8.0	165.6	168.9	177.1	313.7	314.4	322.3
47	Fort Lauderdale-Hollywood .....	164.1	163.4	165.2	(1)	(1)	(1)	20.9	22.5	27.6	19.2	19.2	20.8
48	Jacksonville .....	(*)	189.9	191.0	(1)	(1)	(1)	(*)	13.1	13.3	(*)	24.7	24.8
49	Miami .....	496.2	491.3	435.6	(1)	(1)	(1)	33.4	33.7	34.8	77.5	77.3	78.1
50	Orlando .....	136.5	134.3	130.5	(1)	(1)	(1)	14.4	14.6	12.6	19.6	19.5	21.6
51	Pensacola .....	67.7	66.7	67.4	(1)	(1)	(1)	5.4	5.4	5.0	14.3	14.4	14.6
52	Tampa-St. Petersburg .....	(*)	300.9	294.0	(1)	(1)	(1)	(*)	24.7	23.4	(*)	56.0	54.3
53	West Palm Beach .....	103.2	106.4	102.8	(1)	(1)	(1)	12.0	12.2	12.7	20.4	20.3	18.4
54	GEORGIA .....	1,525.9	1,524.8	1,534.3	6.3	6.7	7.0	69.3	72.2	83.5	459.5	458.4	482.0
55	Atlanta .....	605.1	601.2	604.3	(1)	(1)	(1)	23.4	24.3	35.5	124.9	122.2	131.6

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

for States and selected areas, by industry division

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
Sept. 1970	Aug. 1970	Sept. 1969	Sept. 1970	Aug. 1970	Sept. 1969	Sept. 1970	Aug. 1970	Sept. 1969	Sept. 1970	Aug. 1970	Sept. 1969	Sept. 1970	Aug. 1970	Sept. 1969	
57.2	57.7	56.9	189.3	187.7	186.7	42.4	42.7	41.3	127.4	128.1	128.0	205.8	202.0	204.9	1
18.8	18.8	18.6	59.2	59.3	58.8	18.0	18.0	17.3	36.6	36.6	35.6	32.8	33.9	32.6	2
1.9	1.9	1.9	12.1	12.1	12.2	2.0	2.0	2.0	15.7	15.8	16.5	29.1	28.5	29.6	3
10.4	10.8	10.8	25.1	25.0	25.2	5.1	5.1	5.0	15.6	16.2	16.2	17.4	15.9	16.9	4
4.5	4.5	4.5	15.0	15.3	15.3	4.7	4.7	4.4	10.8	10.7	10.4	18.5	18.8	18.2	5
1.6	1.6	1.5	6.1	6.0	6.0	1.1	1.1	1.2	3.2	3.5	3.4	12.1	11.0	12.2	6
(*)	9.3	8.7	(*)	15.1	14.4	(*)	3.0	2.8	(*)	11.6	11.2	(*)	36.0	33.7	7
30.5	30.8	28.6	128.4	126.8	116.9	30.3	30.2	27.4	88.7	90.6	84.7	117.9	113.4	112.0	8
18.1	18.2	16.5	82.1	81.1	74.6	22.3	22.2	20.4	52.5	51.9	49.0	56.9	54.2	53.1	9
5.9	5.9	5.6	23.9	23.5	21.4	4.7	4.7	4.1	18.8	18.7	17.9	27.0	25.3	25.5	10
32.2	31.7	32.4	107.1	107.3	106.1	21.3	21.6	20.8	75.2	75.4	73.6	101.6	98.6	100.3	11
2.3	2.3	2.2	4.9	4.9	4.7	.6	.6	.6	3.4	3.4	3.3	5.8	5.1	5.8	12
2.8	2.8	2.7	8.8	8.9	8.8	1.5	1.5	1.4	6.4	6.5	6.5	5.9	5.4	5.9	13
9.5	9.5	9.5	26.4	26.6	26.2	8.7	8.8	8.6	18.5	18.6	18.4	24.1	24.2	23.8	14
3.3	3.3	3.1	4.6	4.6	4.6	.9	.9	.9	3.2	3.3	3.3	5.7	5.1	5.7	15
480.3	480.1	470.1	1,570.6	1,565.0	1,513.2	382.2	384.1	369.2	1,293.3	1,301.0	1,235.0	1,402.0	1,378.5	1,369.3	16
14.7	14.6	13.7	103.8	103.1	93.6	23.4	23.3	21.1	75.5	75.6	68.9	64.6	63.4	61.2	17
6.3	6.4	6.7	20.7	21.1	20.4	3.6	3.6	3.4	14.5	14.7	14.0	25.9	25.8	25.6	18
8.5	8.5	8.6	33.1	33.9	32.4	5.4	5.4	5.3	21.7	22.2	21.4	28.3	26.0	27.3	19
183.7	183.2	178.3	653.3	649.8	631.0	171.6	172.5	164.4	556.2	560.6	531.2	416.9	408.2	399.9	20
2.8	2.7	2.8	12.4	12.2	12.3	1.6	1.6	1.5	10.2	10.2	10.1	10.2	9.9	10.5	21
4.2	4.2	4.1	22.9	22.9	20.8	3.5	3.5	3.3	15.6	15.7	14.6	28.3	28.1	28.5	22
18.0	17.9	17.9	55.8	54.7	53.9	10.6	10.6	10.5	39.6	39.5	37.7	106.8	106.3	106.2	23
4.2	4.2	4.1	17.2	17.1	16.9	2.4	2.4	2.4	13.0	13.1	12.2	17.1	17.2	16.9	24
18.1	18.1	17.5	66.8	66.7	63.7	10.2	10.2	10.0	55.6	55.0	52.4	73.0	71.7	72.8	25
20.9	20.9	20.2	87.7	87.4	85.3	18.4	18.4	17.5	77.3	79.0	71.9	96.7	95.3	96.0	26
137.1	137.5	137.6	278.0	276.0	271.4	97.3	98.0	96.6	228.5	227.5	219.5	272.8	268.0	269.9	27
17.6	17.3	16.3	71.2	70.8	67.5	13.5	13.6	13.1	72.5	73.3	71.5	59.5	57.1	54.3	28
3.6	3.6	3.5	18.6	18.4	17.7	3.3	3.3	3.1	20.7	20.8	20.3	21.6	19.8	20.8	29
2.9	2.8	2.9	12.5	12.6	12.3	3.2	3.2	3.2	9.3	9.3	8.9	13.4	12.6	12.4	30
7.4	7.3	7.4	20.3	20.3	20.3	3.1	3.1	3.0	14.5	14.3	13.8	24.7	24.3	24.4	31
3.7	3.7	3.8	12.3	12.2	11.8	1.9	1.9	1.9	10.4	10.5	9.9	29.8	29.3	30.3	32
53.3	53.9	51.5	174.8	174.4	171.1	38.5	38.6	36.6	127.6	130.3	124.0	171.4	165.0	163.0	33
37.4	37.7	36.0	117.9	117.5	114.9	29.5	29.5	28.4	85.5	87.0	83.1	87.7	84.7	85.8	34
54.6	52.8	54.3	226.4	224.0	219.3	73.3	73.8	70.6	182.0	183.6	178.0	152.9	148.0	149.2	35
6.5	6.5	6.3	29.9	30.0	28.2	4.8	4.8	4.6	21.7	21.7	21.0	13.3	14.1	13.6	36
12.1	11.6	11.8	59.6	59.6	58.6	42.8	43.1	41.2	46.2	46.0	44.8	44.9	44.6	42.8	37
1.7	1.6	1.6	7.3	7.0	7.1	1.2	1.1	1.2	5.2	5.1	5.1	4.8	4.1	5.0	38
13.9	13.8	13.6	31.9	31.6	30.8	8.2	8.3	8.1	33.1	33.1	31.4	17.8	18.7	19.1	39
3.4	3.3	3.2	17.7	17.6	16.7	4.5	4.6	4.2	17.5	18.0	16.8	8.1	8.1	7.8	40
3.3	3.2	3.3	13.1	12.9	13.2	2.3	2.3	2.1	10.9	10.9	10.3	8.3	7.9	8.2	41
10.9	10.7	10.7	42.4	42.7	42.5	9.1	9.4	8.8	28.3	29.1	29.3	31.3	32.1	30.3	42
9.5	9.3	9.5	35.8	36.1	36.0	8.1	8.3	7.8	25.9	26.8	26.5	26.2	27.3	25.3	43
31.1	32.2	31.1	85.0	85.6	86.4	32.6	32.9	31.7	135.5	144.0	127.6	358.2	360.2	354.2	44
61.7	62.7	59.3	225.8	226.7	220.7	65.2	66.3	63.2	244.6	252.7	239.2	423.7	423.9	421.8	45
162.2	162.4	151.8	552.5	551.6	525.2	131.0	131.5	125.9	390.9	394.1	381.0	405.2	360.7	381.7	46
10.4	10.3	8.7	45.3	45.5	43.4	11.1	11.2	10.7	31.5	31.9	30.5	25.7	22.8	23.5	47
(*)	21.3	20.9	(*)	52.0	51.7	(*)	18.8	17.8	(*)	28.3	28.5	(*)	31.7	34.0	48
56.1	56.2	55.4	132.0	131.6	125.7	32.3	32.5	31.4	107.3	108.7	103.9	57.6	51.3	56.3	49
8.6	8.6	7.9	37.8	37.7	36.0	9.3	9.4	8.9	24.2	23.6	22.4	22.6	20.9	21.1	50
3.5	3.5	3.4	14.5	14.7	14.5	2.6	2.6	2.6	8.8	8.7	8.9	18.6	17.4	18.4	51
(*)	20.9	20.4	(*)	86.1	82.1	(*)	17.9	17.3	(*)	54.4	53.5	(*)	40.9	43.0	52
5.3	5.3	4.7	26.8	26.8	25.6	6.9	6.8	6.5	20.4	19.9	19.0	16.4	15.1	15.9	53
109.4	109.6	105.8	326.9	326.8	320.7	75.3	75.5	72.6	179.9	180.3	176.9	298.8	295.3	285.8	54
60.8	60.6	58.5	167.0	165.6	160.5	43.1	43.1	41.2	89.4	89.9	87.2	96.5	95.5	89.8	55

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-7: Employees on nonagricultural payrolls**

(In thousands)

	State and area	TOTAL			Mining			Contract construction			Manufacturing		
		Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969
<b>GEORGIA (continued)</b>													
1	Augusta .....	87.2	86.4	88.4	(1)	(1)	(1)	6.0	6.0	5.7	29.3	29.3	31.4
2	Columbus .....	69.9	69.7	70.7	(1)	(1)	(1)	4.2	4.2	4.4	18.7	18.8	19.7
3	Macon .....	76.4	76.9	78.7	(1)	(1)	(1)	4.7	4.9	5.0	12.9	12.9	15.6
4	Savannah .....	65.9	66.6	68.8	(1)	(1)	(1)	4.6	4.5	4.2	15.5	15.9	17.6
<b>HAWAII</b>													
5	Honolulu .....	(*)	295.5	276.7	(*)	(1)	(1)	(*)	23.7	23.3	(*)	28.4	23.9
6	Honolulu .....	(*)	251.4	235.0	(*)	(1)	(1)	(*)	21.0	21.0	(*)	20.9	16.6
<b>IDAHO</b>													
7	Boise .....	212.9	211.3	211.1	3.5	3.5	3.7	12.4	12.1	13.1	41.1	40.9	41.4
8	Boise .....	43.0	42.6	40.9	(1)	(1)	(1)	2.9	2.9	3.1	5.0	5.0	4.7
<b>ILLINOIS</b>													
9	Chicago .....	4,435.6	4,421.5	4,413.1	22.8	23.1	24.1	213.2	218.0	215.7	1,369.3	1,368.5	1,414.4
10	Chicago .....	3,040.8	3,058.6	3,044.7	4.8	4.9	5.3	134.8	138.0	140.0	952.2	953.2	985.1
11	Chicago-Northwestern Indiana .....	(*)	(*)	3,270.3	(*)	(*)	5.3	(*)	(*)	155.6	(*)	(*)	1,092.7
12	Davenport-Rock Island-Moline .....	(*)	132.4	132.3	(*)	(3)	(3)	(*)	6.9	6.5	(*)	43.1	43.3
13	Peoria .....	134.3	132.0	131.6	(3)	(3)	(3)	8.8	9.0	8.8	49.9	48.4	48.3
14	Rockford .....	110.7	109.7	115.0	(3)	(3)	(3)	5.1	5.2	5.5	53.7	53.9	58.4
<b>INDIANA</b>													
15	Evansville .....	1,867.9	1,851.3	1,895.0	7.5	7.5	7.6	90.1	92.3	96.6	718.6	710.8	758.0
16	Evansville .....	89.6	89.2	89.6	1.6	1.7	1.6	4.9	4.6	4.9	33.8	33.0	34.1
17	Fort Wayne .....	123.0	122.6	121.4	(1)	(1)	(1)	5.8	6.0	6.3	45.0	45.2	47.0
18	Gary-Hammond-East Chicago .....	228.4	227.2	225.6	(1)	(1)	(1)	15.2	15.3	15.6	109.0	109.6	107.6
19	Indianapolis .....	431.9	431.2	435.1	(1)	(1)	(1)	22.5	23.2	23.2	132.7	132.1	141.2
20	Muncie .....	47.2	46.2	47.7	(1)	(1)	(1)	1.9	2.0	2.1	18.3	18.8	19.8
21	South Bend .....	93.8	94.5	97.5	(1)	(1)	(1)	4.4	4.5	4.5	32.4	32.9	35.4
22	Terre Haute .....	56.0	54.4	55.6	1.2	1.2	1.0	2.8	2.8	2.7	15.5	15.7	15.7
<b>IOWA</b>													
23	Cedar Rapids .....	888.2	884.3	892.2	3.4	3.5	3.4	45.7	47.3	46.1	211.3	211.5	225.8
24	Cedar Rapids .....	64.8	64.2	68.4	(1)	(1)	(1)	2.3	2.6	3.0	24.7	24.6	28.2
25	Des Moines .....	129.8	129.9	128.9	(1)	(1)	(1)	6.8	7.0	6.5	24.8	25.3	26.2
26	Dubuque .....	33.3	32.0	34.0	(1)	(1)	(1)	1.9	1.8	1.7	12.9	12.6	13.9
27	Sioux City .....	42.4	41.8	40.5	(1)	(1)	(1)	1.8	1.2	2.2	10.3	10.4	8.7
28	Waterloo .....	48.9	47.8	50.3	(1)	(1)	(1)	2.7	2.9	2.5	17.8	17.2	19.4
<b>KANSAS</b>													
29	Topeka .....	675.5	663.4	689.3	11.0	11.3	11.7	34.2	36.4	38.6	129.4	126.2	147.3
30	Topeka .....	62.6	59.7	61.3	.1	.1	.1	3.4	3.5	3.7	9.3	6.6	9.0
31	Wichita .....	133.9	135.5	150.4	1.9	1.9	2.3	6.8	7.0	7.7	35.6	37.8	49.8
<b>KENTUCKY</b>													
32	Lexington .....	917.2	908.0	910.6	28.1	28.3	27.8	52.1	52.4	61.0	250.7	249.4	251.1
33	Lexington .....	78.4	77.5	78.1	(1)	(1)	(1)	5.7	6.1	5.5	15.7	15.4	16.8
34	Louisville .....	337.7	338.3	336.5	(1)	(1)	(1)	16.8	17.8	18.6	114.7	114.1	120.7
<b>LOUISIANA</b>													
35	Baton Rouge .....	1,046.9	1,039.6	1,060.2	51.0	51.2	52.7	78.1	78.0	86.9	178.3	177.9	182.6
36	Baton Rouge .....	101.8	101.8	103.5	.7	.7	.5	12.6	12.9	12.6	17.8	18.0	18.7
37	Lake Charles .....	41.3	40.4	42.5	1.6	1.6	1.6	4.8	4.7	6.3	9.2	9.1	9.1
38	Monroe .....	38.7	37.5	38.4	.4	.4	.4	3.6	3.6	3.8	6.3	6.2	6.7
39	New Orleans .....	371.8	371.0	376.3	14.1	14.3	15.2	21.8	21.6	22.7	53.8	53.8	56.6
40	Shreveport .....	93.4	93.3	94.0	3.8	3.8	4.2	6.2	6.3	6.3	16.5	16.5	17.4
<b>MAINE</b>													
41	Lewiston-Auburn .....	331.7	335.8	333.8	(1)	(1)	(1)	16.6	17.6	16.9	108.6	110.9	115.2
42	Lewiston-Auburn .....	28.6	28.7	28.7	(1)	(1)	(1)	1.4	1.5	1.5	13.0	13.2	13.2
43	Portland .....	65.3	65.6	64.1	(1)	(1)	(1)	3.7	3.7	3.2	13.9	14.4	15.2
<b>MARYLAND</b>													
44	Baltimore .....	1,317.3	1,311.4	1,296.8	1.8	1.8	1.8	90.9	91.6	91.3	273.2	275.7	285.9
45	Baltimore .....	813.9	809.3	808.7	.3	.3	.3	45.7	45.6	45.4	196.6	197.2	208.0
<b>MASSACHUSETTS</b>													
46	Boston .....	2,246.6	2,257.8	2,260.5	(1)	(1)	(1)	99.0	105.0	102.5	630.6	634.2	674.0
47	Boston .....	1,287.3	1,290.3	1,287.6	(1)	(1)	(1)	51.9	55.3	53.6	272.2	274.0	293.5
48	Brockton .....	50.0	50.3	50.3	-	-	-	2.3	2.4	2.1	15.1	15.6	17.1
49	Fall River .....	48.4	48.2	47.9	(1)	(1)	(1)	(1)	(1)	(1)	22.9	22.9	23.3
50	Lawrence-Haverhill .....	79.0	79.5	80.9	(1)	(1)	(1)	2.2	2.2	2.1	36.3	37.2	38.2
51	Lowell .....	54.0	53.5	54.2	(1)	(1)	(1)	2.9	3.1	2.9	20.3	20.3	21.2
52	New Bedford .....	54.0	53.7	55.7	(1)	(1)	(1)	2.0	2.0	2.0	25.0	24.6	26.9
53	Springfield-Chicopee-Holyoke .....	195.0	194.6	195.6	(1)	(1)	(1)	9.0	9.2	8.7	67.6	67.2	71.6
54	Worcester .....	129.8	129.8	129.9	(1)	(1)	(1)	6.3	6.4	5.6	44.4	45.0	47.6

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

for States and selected areas, by industry division--Continued

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	
4.0	4.0	4.3	14.7	14.6	14.4	3.2	3.2	3.1	9.7	9.7	9.6	20.3	19.6	19.9	1
3.4	3.4	3.4	13.8	13.8	13.4	4.0	4.1	3.8	8.7	8.5	8.7	17.1	16.9	17.3	2
3.6	3.7	3.6	14.7	14.6	14.4	4.3	4.3	3.9	9.3	9.4	8.7	26.9	27.1	27.5	3
6.8	6.9	7.2	14.9	15.3	15.5	3.2	3.2	3.2	9.4	9.4	9.3	11.5	11.4	11.8	4
(*)	24.6	23.4	(*)	67.5	63.4	(*)	18.5	17.3	(*)	57.4	54.7	(*)	75.4	70.7	5
(*)	20.8	19.8	(*)	58.0	54.1	(*)	17.1	16.0	(*)	47.9	45.4	(*)	65.7	62.1	6
14.4	14.4	14.6	50.6	50.1	49.8	8.0	7.9	7.8	32.3	32.8	31.6	50.6	49.6	49.1	7
3.2	3.2	3.3	11.8	11.7	11.4	2.8	2.8	2.7	6.7	6.7	6.1	10.6	10.3	9.6	8
297.1	298.0	292.6	961.6	956.8	948.8	238.1	241.0	231.6	699.9	697.0	677.7	633.4	619.2	608.4	9
216.0	217.2	212.8	681.9	676.8	674.0	185.1	188.1	180.9	515.5	520.2	501.1	350.5	360.2	345.5	10
(*)	(*)	226.6	(*)	(*)	711.5	(*)	(*)	187.0	(*)	(*)	523.7	(*)	(*)	367.8	11
(*)	7.0	6.9	(*)	29.6	29.1	(*)	5.0	5.2	(*)	18.2	18.4	(*)	22.5	23.0	12
7.3	7.2	7.3	28.2	28.0	28.2	5.3	5.4	5.3	19.5	19.4	18.7	15.3	14.7	15.0	13
3.5	3.5	3.5	20.5	20.5	20.9	3.3	3.3	3.2	14.1	14.0	13.9	10.6	9.4	9.7	14
100.4	100.6	100.8	370.6	369.0	365.1	75.7	76.4	74.2	209.5	208.1	204.8	295.5	286.5	287.8	15
5.2	5.2	5.3	19.1	18.9	19.2	3.3	3.4	3.3	13.2	14.1	12.9	8.5	8.3	8.3	16
8.6	8.7	8.5	28.6	28.3	26.8	6.6	6.7	6.4	16.2	16.1	15.2	12.2	11.6	11.2	17
13.8	13.9	13.8	38.6	38.3	37.5	6.2	6.3	6.1	23.5	22.4	22.7	22.1	21.4	22.3	18
28.4	28.7	28.2	96.6	95.8	95.0	29.8	30.1	28.6	55.0	54.9	52.9	66.9	66.4	66.0	19
2.5	2.5	2.6	9.6	9.1	8.8	1.4	1.4	1.4	5.3	5.4	5.1	8.2	7.0	7.9	20
5.0	5.0	5.1	20.4	20.4	21.0	4.8	4.9	4.9	16.1	16.3	16.2	10.7	10.5	10.4	21
4.1	4.1	4.2	13.0	13.0	13.2	1.7	1.7	1.7	6.5	6.6	6.6	11.2	9.3	10.5	22
51.7	52.0	51.7	210.2	208.2	207.6	42.4	43.1	41.2	145.6	144.0	142.8	178.0	174.7	173.6	23
3.2	3.2	3.1	13.6	13.5	13.5	3.1	3.2	3.1	10.4	9.8	10.2	7.4	7.3	7.3	24
9.5	9.6	9.4	31.4	31.5	32.4	15.6	15.6	14.6	23.0	22.3	21.9	18.7	18.5	17.9	25
1.8	1.7	1.7	6.6	6.6	6.9	.9	1.0	.9	6.5	5.7	6.3	2.7	2.6	2.5	26
3.2	3.2	3.3	12.0	11.8	11.6	2.1	2.0	2.0	7.5	7.5	7.4	5.5	5.6	5.3	27
2.4	2.4	2.5	9.9	9.9	9.9	1.5	1.5	1.5	7.6	7.4	7.4	7.1	6.5	7.1	28
52.6	52.4	52.0	160.5	160.2	158.5	30.4	30.6	29.7	103.9	102.9	101.1	153.5	143.4	150.4	29
7.2	7.3	7.5	13.5	13.1	13.1	3.9	4.0	3.8	10.1	10.0	9.9	15.4	15.4	14.4	30
7.9	7.9	7.9	31.0	31.6	33.1	6.4	6.6	6.6	24.9	25.3	24.2	19.6	17.6	18.8	31
60.6	60.5	61.5	187.8	187.2	181.3	35.2	35.6	35.0	128.1	127.9	125.6	174.6	166.7	167.3	32
4.3	4.3	4.4	14.8	14.7	14.7	3.6	3.7	3.7	13.0	13.1	12.2	21.3	20.2	20.8	33
23.0	23.2	23.3	72.6	72.6	69.6	17.5	17.6	16.9	49.5	49.6	47.2	43.6	43.4	40.1	34
96.3	97.2	96.3	226.9	227.1	228.6	49.6	49.8	49.4	150.8	152.3	153.5	215.9	206.1	210.2	35
5.4	5.4	5.4	21.1	21.1	22.3	5.4	5.4	5.7	14.6	14.7	14.1	24.4	23.7	24.2	36
3.0	3.1	3.1	8.2	8.2	8.3	1.5	1.5	1.5	5.9	5.9	5.8	7.1	6.3	6.8	37
2.5	2.5	2.5	10.1	10.2	9.9	2.4	2.4	2.4	5.3	5.1	5.3	8.1	7.1	7.4	38
46.9	47.6	47.9	89.0	89.2	89.4	22.5	22.5	22.8	66.4	64.9	66.9	57.3	56.9	54.9	39
9.5	9.6	9.5	23.1	23.3	23.1	4.8	4.8	4.7	14.1	14.3	14.1	15.4	14.7	14.7	40
17.6	18.0	17.3	67.3	68.5	65.6	12.4	12.4	11.7	42.8	45.2	42.3	66.4	63.2	64.8	41
.9	.9	.9	6.3	6.2	6.2	.9	.9	.8	4.1	4.1	4.1	2.0	1.9	2.0	42
5.3	5.3	5.3	17.7	17.8	17.0	5.6	5.6	5.2	11.5	11.7	10.9	7.6	7.1	7.3	43
82.4	82.1	79.8	309.0	307.0	295.4	69.8	70.6	67.5	240.0	240.7	233.2	250.2	241.9	241.9	44
57.8	57.5	56.7	176.4	174.5	171.0	44.2	44.5	42.9	139.9	139.4	135.8	153.0	150.3	148.6	45
120.1	119.4	115.2	486.2	483.0	480.4	129.7	131.8	126.1	480.9	479.3	466.3	300.1	305.1	296.0	46
78.4	78.6	74.4	290.7	286.6	287.7	93.7	94.5	91.4	326.8	322.6	313.8	173.6	178.7	173.2	47
3.8	3.7	3.3	13.0	13.0	12.4	1.4	1.4	1.4	6.6	6.6	6.3	7.8	7.6	7.7	48
2.0	1.8	1.8	9.3	9.3	9.2	(1)	(1)	(1)	9.9	9.9	9.3	4.3	4.3	4.3	49
2.4	2.4	2.4	14.8	14.6	14.9	2.4	2.4	2.4	10.0	10.1	10.1	10.9	10.6	10.8	50
2.1	2.0	2.0	11.1	10.8	11.0	1.4	1.4	1.4	9.4	9.1	9.0	6.8	6.8	6.7	51
2.9	2.8	2.6	9.8	9.8	9.9	(1)	(1)	(1)	9.5	9.7	9.6	4.8	4.8	4.7	52
8.4	8.3	8.3	40.0	39.5	39.1	9.3	9.4	9.1	35.5	35.4	34.4	25.2	25.6	24.4	53
6.3	6.3	6.6	26.3	25.9	25.5	7.3	7.5	6.9	22.7	22.2	21.8	16.5	16.5	15.9	54

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-7: Employees on nonagricultural payrolls**

(In thousands)

	State and area	TOTAL			Mining			Contract construction			Manufacturing		
		Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969
1	<b>MICHIGAN</b> .....	2,999.8	2,915.6	3,090.9	13.4	13.4	13.2	100.8	104.5	122.3	1,107.1	1,046.7	1,190.7
2	Ann Arbor .....	107.7	101.2	105.2	(1)	(1)	(1)	3.1	3.3	3.5	37.4	32.4	38.1
3	Battle Creek .....	58.9	58.5	60.4	(1)	(1)	(1)	2.2	2.3	2.4	25.8	25.5	27.1
4	Bay City .....	30.3	29.4	30.8	(1)	(1)	(1)	1.0	1.0	1.5	11.7	11.1	12.2
5	Detroit .....	1,485.9	1,441.0	1,548.1	1.1	1.1	1.1	48.6	49.6	61.0	563.7	532.2	614.4
6	Flint .....	154.8	143.3	163.7	(1)	(1)	(1)	6.6	7.3	7.2	82.1	72.0	88.1
7	Grand Rapids .....	185.6	182.5	191.2	(1)	(1)	(1)	7.9	8.3	10.1	73.5	70.9	77.8
8	Jackson .....	46.7	46.3	47.7	(1)	(1)	(1)	2.4	2.4	2.5	18.5	18.4	19.9
9	Kalamazoo .....	71.1	70.1	74.2	(1)	(1)	(1)	3.2	3.4	3.6	28.3	28.1	30.2
10	Lansing .....	120.9	118.0	132.7	(1)	(1)	(1)	5.3	5.8	6.4	36.5	33.3	42.7
11	Muskegon-Muskegon Heights .....	51.1	50.5	53.0	(1)	(1)	(1)	1.7	1.7	1.9	26.2	26.0	28.5
12	Saginaw .....	74.2	73.5	74.9	(1)	(1)	(1)	3.2	3.2	4.3	33.0	32.5	33.6
13	<b>MINNESOTA</b> .....	1,325.9	1,320.9	1,333.8	15.7	16.0	15.4	76.2	76.7	79.3	326.2	326.4	345.2
14	Duluth-Superior .....	(*)	58.4	57.9	(*)	(1)	(1)	(*)	2.9	2.8	(*)	10.7	10.6
15	Minneapolis-St. Paul .....	790.4	788.4	798.8	(1)	(1)	(1)	50.2	50.6	46.1	209.4	210.7	224.6
16	<b>MISSISSIPPI</b> .....	585.6	577.9	581.6	5.9	6.0	6.0	38.0	38.8	39.6	181.4	180.5	183.3
17	Jackson .....	91.5	89.8	91.3	.7	.7	.7	5.1	5.4	6.5	13.6	13.5	14.4
18	<b>MISSOURI</b> .....	1,649.9	1,629.1	1,684.6	8.7	8.8	9.3	66.8	66.1	80.6	439.6	440.0	460.6
19	Kansas City .....	504.0	497.9	519.9	.7	.6	.6	14.5	13.8	27.3	127.1	125.4	134.1
20	St. Joseph .....	32.7	33.2	33.0	(3)	(3)	(3)	2.6	2.7	2.5	10.0	10.4	10.1
21	St. Louis .....	901.3	899.7	921.4	2.2	2.2	2.4	43.3	43.9	47.2	271.9	272.3	294.0
22	Springfield .....	57.2	57.4	56.6	.1	.1	.1	3.1	3.2	3.3	15.9	16.0	16.3
23	<b>MONTANA</b> .....	205.7	208.2	203.6	7.2	7.3	6.4	12.0	11.9	12.5	24.8	25.1	24.1
24	Billings .....	28.0	28.3	27.7	(1)	(1)	(1)	1.3	1.5	1.2	2.7	2.8	2.9
25	Great Falls .....	26.0	25.9	25.5	(1)	(1)	(1)	2.2	2.2	2.6	3.0	3.0	3.0
26	<b>NEBRASKA</b> .....	489.9	481.0	476.2	1.9	1.9	1.9	27.7	29.6	28.4	83.9	84.7	85.9
27	Lincoln .....	73.0	71.0	71.2	-	-	-	3.6	4.1	4.4	10.4	10.6	10.7
28	Omaha .....	210.8	209.0	206.0	(3)	(3)	(3)	12.1	12.9	13.2	38.7	39.1	39.8
29	<b>NEVADA</b> <sup>2</sup> .....	203.1	205.2	202.0	4.2	4.3	4.0	11.6	12.0	12.8	8.3	8.4	8.4
30	Las Vegas <sup>2</sup> .....	109.9	110.8	110.2	.1	.1	.1	6.8	7.2	7.4	4.1	4.2	4.3
31	Reno <sup>2</sup> .....	57.7	57.3	55.8	.2	.2	.2	3.7	3.7	3.7	2.9	2.9	3.0
32	<b>NEW HAMPSHIRE</b> .....	261.0	272.4	262.4	.4	.4	.4	13.7	14.0	15.2	90.0	92.0	96.9
33	Manchester .....	49.8	50.1	49.4	(1)	(1)	(1)	2.8	2.9	2.9	16.3	16.6	16.9
34	<b>NEW JERSEY</b> .....	2,611.5	2,615.7	2,612.1	3.3	3.4	3.5	127.8	127.8	125.9	867.8	862.7	903.1
35	Atlantic City .....	69.2	71.9	67.8	-	-	-	3.9	4.1	3.6	10.2	10.6	11.7
36	Camden <sup>6</sup> .....	255.8	250.8	250.3	.1	.1	.1	15.2	15.4	14.3	73.6	70.0	76.3
37	Jersey City .....	269.2	268.5	273.3	-	-	-	8.0	8.3	7.6	109.6	109.8	116.5
38	Newark .....	792.8	791.8	801.0	.9	.9	1.0	33.3	34.0	34.9	246.4	244.2	260.5
39	Parerson-Clifton-Passaic <sup>7</sup> .....	504.6	502.8	496.3	.5	.5	.4	23.8	23.9	23.6	187.5	186.4	191.1
40	Perth Amboy <sup>7</sup> .....	277.0	274.5	271.6	.8	.8	.8	14.8	14.8	13.8	111.1	111.0	115.8
41	Trenton .....	131.5	131.9	132.5	(1)	(1)	(1)	4.5	4.6	3.8	40.2	40.1	41.9
42	<b>NEW MEXICO</b> .....	289.4	293.4	287.6	17.0	17.4	17.5	16.3	17.3	17.9	21.1	21.4	20.5
43	Albuquerque .....	107.2	107.1	105.9	(1)	(1)	(1)	7.4	7.7	7.6	9.1	9.3	8.9
44	<b>NEW YORK</b> .....	7,219.9	7,262.2	7,228.3	8.3	8.3	8.5	287.5	290.1	287.3	1,805.4	1,808.1	1,896.8
45	Albany-Schenectady-Troy .....	276.4	277.9	276.5	(1)	(1)	(1)	15.0	15.2	16.0	60.7	60.6	64.3
46	Binghamton .....	103.5	103.5	105.2	(1)	(1)	(1)	5.0	5.1	5.0	41.7	42.8	44.7
47	Buffalo .....	501.9	499.7	511.8	(1)	(1)	(1)	21.8	22.2	24.3	171.3	170.4	179.5
48	Elmira .....	39.2	38.8	37.7	(1)	(1)	(1)	2.0	2.2	2.0	15.8	15.7	14.5
49	Monroe County .....	303.0	304.8	309.6	(1)	(1)	(1)	11.6	11.2	15.2	130.5	132.8	135.7
50	Nassau and Suffolk Counties <sup>8</sup> .....	719.9	720.3	703.3	(1)	(1)	(1)	42.4	43.4	40.0	147.1	148.7	163.4
51	New York-Northeastern New Jersey .....	(*)	6,765.4	6,722.0	(*)	4.9	4.9	(*)	256.9	252.5	(*)	1,697.1	1,783.7
52	New York SMSA <sup>7</sup> .....	4,912.0	4,929.9	4,879.9	2.6	2.6	2.7	176.2	176.8	172.7	1,050.8	1,047.7	1,099.8
53	New York City .....	3,822.3	3,840.6	3,812.5	2.1	2.1	2.0	109.8	109.2	108.0	812.6	810.9	842.1
54	Rochester .....	345.4	347.3	353.0	(1)	(1)	(1)	13.5	13.2	17.3	144.3	147.0	151.0
55	Rockland County <sup>9</sup> .....	60.3	61.4	57.9	(1)	(1)	(1)	3.8	4.0	4.0	15.1	15.2	14.5
56	Syracuse .....	225.5	223.2	228.8	(1)	(1)	(1)	12.4	12.1	13.1	61.3	62.2	68.4
57	Utica-Rome .....	114.3	115.0	117.4	(1)	(1)	(1)	4.2	4.2	4.2	40.7	40.8	43.8
58	Westchester County <sup>9</sup> .....	309.6	307.5	306.2	(1)	(1)	(1)	20.2	20.2	20.6	76.0	72.9	79.8

See footnotes at end of table.



# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

for States and selected areas, by industry division--Continued

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	
153.0	151.6	152.8	579.7	576.0	586.9	116.0	117.2	114.7	407.2	403.5	401.0	522.6	502.7	509.4	1
2.7	2.7	2.7	14.7	14.1	13.3	2.2	2.2	2.2	11.0	11.2	10.3	36.5	35.3	35.0	2
2.7	2.7	2.6	9.4	9.2	9.3	3.1	3.1	3.3	7.9	7.8	7.8	8.0	7.9	8.0	3
1.7	1.6	1.6	7.0	6.9	7.0	.8	.8	.8	3.8	3.8	3.8	4.2	4.1	3.9	4
80.2	80.6	80.8	290.7	286.5	293.5	68.2	68.6	66.6	215.1	212.2	215.3	218.3	210.1	215.3	5
4.8	4.8	6.0	21.3	20.6	22.9	4.2	4.3	4.3	16.0	16.1	16.5	20.0	18.2	18.9	6
9.9	9.9	10.4	43.0	42.0	42.6	7.2	7.4	7.3	26.5	26.3	26.2	17.6	17.8	16.9	7
4.3	4.3	4.3	8.7	8.6	8.5	1.4	1.4	1.4	5.2	5.1	5.0	6.3	6.2	6.2	8
2.3	2.3	2.5	13.4	13.3	13.3	2.2	2.2	2.2	9.2	9.2	9.0	12.6	11.6	13.4	9
3.3	3.3	3.2	19.1	19.5	21.2	5.2	5.2	5.1	14.7	15.0	15.5	36.8	35.8	38.5	10
2.7	2.7	2.7	8.2	8.2	8.2	1.3	1.3	1.3	5.5	5.5	5.5	5.5	5.2	5.0	11
4.7	4.7	4.6	13.3	13.2	13.3	2.7	2.8	2.7	9.0	9.0	8.7	8.4	8.1	7.8	12
87.5	87.0	90.2	314.2	312.5	312.4	65.3	65.4	63.3	215.1	212.9	209.0	225.8	224.0	219.0	13
(*)	8.2	8.2	(*)	13.4	13.5	(*)	2.0	2.1	(*)	11.4	10.9	(*)	9.8	9.8	14
54.6	54.0	58.5	186.5	185.4	187.8	48.4	48.5	46.8	143.1	140.7	137.8	98.2	98.5	97.3	15
31.3	31.4	30.2	107.8	107.7	103.4	20.7	20.8	19.9	66.4	68.0	65.8	134.1	124.8	133.3	16
5.6	5.6	5.7	22.2	22.2	20.6	7.0	7.0	6.7	16.5	15.2	16.3	20.9	20.3	20.5	17
126.5	125.3	126.6	366.6	367.5	376.7	89.5	90.3	88.6	260.5	258.2	260.1	291.7	272.9	282.1	18
51.6	51.3	50.4	123.1	124.1	125.4	33.1	33.5	32.2	81.6	82.0	80.3	72.3	67.2	69.6	19
2.0	2.1	2.1	7.7	7.8	7.8	1.3	1.3	1.3	4.7	4.7	4.6	4.4	4.2	4.6	20
68.1	67.7	68.7	195.7	195.7	191.6	47.9	48.5	47.5	152.8	150.1	152.3	119.4	119.3	117.7	21
4.4	4.4	4.3	14.7	14.9	13.6	2.1	2.1	2.3	9.1	9.3	9.4	7.8	7.4	7.3	22
17.3	17.5	17.8	48.0	48.9	48.1	8.1	8.1	7.9	34.7	35.4	33.7	53.6	54.0	53.1	23
2.7	2.7	2.8	9.0	9.0	8.9	1.5	1.5	1.5	5.9	5.9	5.7	4.9	4.9	4.7	24
2.1	2.1	2.1	6.6	6.6	6.5	1.5	1.4	1.5	5.1	5.1	4.8	5.5	5.5	5.0	25
37.2	37.7	37.1	124.9	122.5	118.0	29.8	29.7	28.4	83.3	80.4	79.6	101.3	94.5	96.9	26
4.9	5.0	5.1	14.8	14.6	14.8	5.4	5.4	5.2	12.5	11.9	11.5	21.3	19.4	19.5	27
20.8	21.2	20.9	53.9	53.5	51.1	17.0	17.1	16.4	37.5	36.7	35.5	30.7	28.6	29.0	28
14.0	14.1	13.3	39.8	40.0	38.2	8.0	8.0	7.6	79.8	81.4	81.6	37.4	37.0	36.1	29
7.4	7.4	6.9	21.5	21.5	20.0	4.1	4.1	3.8	49.6	50.0	52.1	16.3	16.3	15.6	30
4.7	4.8	4.7	12.9	12.9	12.1	3.0	3.0	3.0	20.0	20.2	19.5	10.3	9.6	9.6	31
11.4	11.5	11.1	51.6	52.6	49.3	11.2	11.3	10.4	44.6	54.5	43.0	38.1	36.1	36.1	32
3.6	3.7	3.5	11.8	11.7	11.5	3.1	3.1	2.8	8.2	8.1	7.9	4.0	4.0	3.9	33
183.5	182.0	179.1	532.0	533.2	523.0	122.4	123.9	116.4	417.7	425.3	409.9	357.0	357.4	351.2	34
3.9	4.0	3.6	19.5	21.1	18.4	3.0	3.0	2.9	17.4	17.9	17.3	11.3	11.2	10.3	35
13.8	13.7	13.2	59.8	58.9	55.9	9.1	9.2	8.9	38.4	38.8	37.8	45.8	44.7	43.8	36
37.7	37.1	37.7	43.8	43.3	42.0	10.0	10.1	9.5	30.6	30.2	31.5	29.5	29.7	28.5	37
62.1	61.8	62.1	152.4	151.7	152.1	58.8	59.2	55.8	137.5	138.6	133.7	101.4	101.4	100.9	38
25.9	25.8	25.4	121.7	120.0	115.5	18.9	19.2	17.9	75.0	75.9	74.3	51.3	51.1	48.1	39
15.1	14.5	13.6	54.6	52.8	51.0	5.8	5.8	5.7	31.8	31.9	30.0	43.0	42.9	40.9	40
7.1	6.9	6.9	20.7	20.7	20.3	4.9	5.0	4.7	27.1	27.1	27.7	27.0	27.5	27.2	41
20.8	20.2	20.0	61.6	62.1	60.5	12.5	12.7	11.5	54.2	56.0	54.7	85.9	86.3	85.0	42
6.8	6.7	6.5	26.4	26.4	25.6	6.5	6.5	6.5	25.8	25.5	25.9	25.2	25.0	24.9	43
511.8	514.3	509.8	1,443.6	1,436.3	1,431.9	604.9	611.7	602.0	1,377.5	1,384.3	1,344.8	1,180.9	1,209.2	1,147.2	44
15.8	15.9	15.7	54.0	54.8	52.7	10.9	11.1	10.7	46.5	47.1	45.4	73.7	73.4	71.7	45
4.6	4.6	4.6	17.9	17.8	17.3	3.2	3.2	3.1	11.9	12.0	12.0	19.3	17.9	18.6	46
32.9	33.4	33.6	101.1	100.4	101.9	19.4	19.7	19.0	77.6	77.7	75.7	77.8	75.8	77.9	47
1.7	1.7	1.6	7.6	7.4	7.7	1.0	1.1	1.0	5.9	6.0	5.8	5.2	4.7	5.2	48
10.8	10.9	11.4	53.0	52.1	53.7	11.4	11.6	10.9	49.8	50.4	47.6	36.0	35.8	34.9	49
34.1	32.7	31.3	185.1	184.9	179.8	32.0	32.3	30.2	133.8	137.3	127.6	145.4	141.0	131.0	50
(*)	532.5	525.6	(*)	1,362.7	1,358.0	(*)	616.9	606.2	(*)	1,284.8	1,254.5	(*)	1,009.6	936.6	51
392.0	392.6	386.8	1,004.4	994.2	997.4	517.0	522.3	517.3	1,010.1	1,008.7	985.0	758.9	784.8	718.3	52
335.1	337.9	334.3	742.4	732.6	740.9	469.2	474.0	471.6	799.3	791.9	784.2	551.8	582.0	529.3	53
12.6	12.7	13.1	60.3	59.5	61.2	12.2	12.4	11.7	53.9	54.4	51.7	48.6	48.1	46.9	54
3.1	3.1	3.1	10.6	10.7	10.1	1.9	1.9	1.8	9.9	10.4	9.7	15.9	16.2	14.6	55
14.1	14.3	14.4	49.8	49.4	49.1	12.4	12.5	11.4	36.9	35.6	36.2	38.7	37.0	36.1	56
5.6	5.6	5.4	18.7	18.8	18.5	4.6	4.7	4.5	15.2	15.5	15.0	25.2	25.4	26.0	57
19.7	19.0	18.0	66.4	66.0	66.6	13.9	14.2	13.7	67.6	69.7	64.2	45.8	45.6	43.3	58

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-7: Employees on nonagricultural payrolls**

(In thousands)

	State and area	TOTAL			Mining			Contract construction			Manufacturing		
		Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969
1	<b>NORTH CAROLINA</b> .....	1,757.5	1,739.1	1,748.3	3.7	3.8	3.5	95.1	97.9	97.3	704.1	704.6	720.8
2	Asheville .....	-	-	-	-	-	-	-	-	-	18.7	18.6	20.0
3	Charlotte .....	177.8	177.7	177.5	(1)	(1)	(1)	11.0	11.2	12.4	41.4	41.6	42.5
4	Greensboro-Winston-Salem-High Point .....	260.5	257.5	259.1	(1)	(1)	(1)	14.5	14.7	14.1	111.0	111.8	114.1
5	Raleigh .....	-	-	-	-	-	-	-	-	-	14.2	14.1	14.7
6	<b>NORTH DAKOTA</b> .....	166.3	164.1	162.9	2.0	1.9	2.0	11.3	11.9	10.1	9.2	9.3	9.3
7	Fargo-Moorhead .....	41.9	40.9	40.5	(1)	(1)	(1)	3.1	3.2	3.4	2.9	3.0	3.1
8	<b>OHIO</b> .....	3,957.8	3,911.1	3,957.3	21.6	21.4	20.6	192.8	196.0	198.4	1,430.7	1,407.5	1,498.0
9	Akron .....	249.1	246.7	248.0	.3	.3	.3	10.2	10.4	10.4	98.9	98.8	102.3
10	Canton .....	138.4	139.1	139.9	.4	.4	.4	6.0	6.0	6.1	60.4	61.9	64.3
11	Cincinnati .....	518.4	510.3	507.3	.4	.4	.4	24.3	24.8	25.2	172.3	167.3	175.8
12	Cleveland .....	878.0	862.4	881.5	1.8	1.8	1.6	40.6	41.4	41.7	297.9	288.8	318.5
13	Columbus .....	383.9	382.4	375.4	.9	.9	.8	20.6	20.9	20.8	92.0	91.1	94.2
14	Dayton .....	330.8	334.6	339.2	.5	.5	.5	14.5	14.9	14.8	123.3	128.5	135.2
15	Toledo .....	248.2	242.1	244.2	.4	.4	.3	10.9	10.6	11.3	85.5	83.0	87.6
16	Youngstown-Warren .....	202.1	200.6	200.6	.3	.3	.3	10.5	10.8	10.4	90.2	89.8	93.7
17	<b>OKLAHOMA</b> .....	761.2	762.8	759.2	38.3	38.8	39.9	37.1	39.0	38.0	134.0	134.7	133.6
18	Oklahoma City .....	256.0	254.0	250.9	6.6	6.6	6.8	13.6	14.0	13.0	38.2	38.3	36.0
19	Tulsa .....	179.4	179.6	181.4	13.1	13.2	13.9	8.8	9.0	9.1	43.1	43.4	45.0
20	<b>OREGON</b> .....	723.1	717.7	726.4	1.4	1.6	1.8	30.1	30.8	36.0	180.0	182.7	190.6
21	Eugene .....	69.0	68.3	70.2	(1)	(1)	(1)	3.5	3.6	3.5	19.4	20.0	20.3
22	Portland .....	385.4	381.3	389.8	(1)	(1)	(1)	18.0	18.1	22.1	87.5	88.1	94.6
23	Salem .....	60.1	59.2	58.8	(1)	(1)	(1)	2.3	2.4	2.8	15.2	15.9	15.3
24	<b>PENNSYLVANIA</b> .....	4,354.1	4,356.3	4,406.2	40.7	40.9	39.5	224.2	225.8	220.3	1,509.4	1,516.2	1,588.5
25	Allentown-Bethlehem-Easton .....	215.4	216.3	215.7	.5	.5	.5	9.1	8.9	8.8	104.2	105.4	106.5
26	Altoona .....	48.1	48.2	49.0	(1)	(1)	(1)	2.2	2.3	2.3	15.3	15.5	16.1
27	Delaware Valley .....	1,537.9	1,548.8	1,564.7	1.1	1.2	1.1	79.4	78.4	76.9	471.0	477.6	502.3
28	Erie .....	100.3	98.7	98.6	(1)	(1)	(1)	4.6	4.8	4.8	45.0	43.6	44.2
29	Harrisburg .....	173.5	174.1	174.7	(1)	(1)	(1)	9.1	9.4	9.8	40.2	39.8	40.1
30	Johnstown .....	80.9	81.5	81.1	5.1	5.1	5.0	3.5	4.0	3.5	25.1	25.5	26.8
31	Lancaster .....	121.9	121.6	118.7	(1)	(1)	(1)	6.6	6.9	6.1	55.4	56.1	55.7
32	Philadelphia .....	1,793.9	1,799.7	1,814.9	1.3	1.3	1.2	94.6	93.8	91.2	544.9	547.7	578.5
33	Pittsburgh .....	868.1	869.2	879.2	9.5	9.4	8.9	51.6	52.1	49.1	273.2	276.1	292.5
34	Reading .....	122.3	122.5	123.5	(1)	(1)	(1)	5.0	5.2	4.7	56.8	57.0	58.6
35	Scranton .....	86.8	87.0	88.3	.4	.4	.5	3.1	3.1	2.8	32.6	32.7	35.8
36	Wilkes-Barre-Hazleton .....	123.5	121.8	122.6	2.2	2.1	2.4	5.9	5.9	5.7	52.4	50.4	53.3
37	York .....	134.2	132.6	133.0	(1)	(1)	(1)	9.3	9.4	8.7	62.8	62.1	63.2
38	<b>RHODE ISLAND</b> .....	336.3	332.9	344.3	(1)	(1)	(1)	15.8	16.2	14.6	117.6	115.7	126.7
39	Providence-Pawtucket-Warwick .....	348.6	345.3	356.1	(1)	(1)	(1)	15.8	16.1	15.2	134.3	132.8	142.5
40	<b>SOUTH CAROLINA</b> .....	810.1	809.0	818.7	1.7	1.7	1.7	49.7	51.5	49.5	328.7	330.3	340.4
41	Charleston .....	87.1	85.4	88.3	(1)	(1)	(1)	5.6	5.6	6.2	15.1	14.4	16.0
42	Columbia .....	107.3	105.4	105.9	(1)	(1)	(1)	7.2	7.5	7.5	19.4	19.5	19.4
43	Greenville .....	123.4	123.2	124.7	(1)	(1)	(1)	10.0	10.2	9.9	53.9	54.6	55.7
44	<b>SOUTH DAKOTA</b> .....	(*)	177.5	173.9	(*)	2.3	2.2	(*)	9.6	8.9	(*)	15.9	15.8
45	Sioux Falls .....	(*)	34.9	33.7	(*)	(1)	(1)	(*)	2.2	2.0	(*)	6.1	5.9
46	<b>TENNESSEE</b> .....	1,324.3	1,317.9	1,325.3	7.5	7.7	7.1	69.2	67.3	71.6	463.2	459.0	474.4
47	Chattanooga .....	125.8	122.4	127.5	.3	.3	.2	5.3	5.3	5.6	50.9	49.5	54.2
48	Knoxville .....	149.5	148.6	150.7	1.9	1.9	1.8	7.6	6.1	8.1	47.4	47.8	50.1
49	Memphis .....	276.6	274.6	274.5	.3	.3	.3	15.8	15.9	15.2	59.7	58.5	62.5
50	Nashville .....	220.8	220.9	219.0	(1)	(1)	(1)	13.7	13.9	14.8	62.3	62.6	61.8
51	<b>TEXAS</b> .....	3,721.9	3,729.0	3,645.5	102.4	104.6	105.8	240.6	247.7	238.8	718.3	726.4	759.8
52	Amarillo .....	-	-	-	-	-	-	-	-	-	7.3	7.3	6.7
53	Austin .....	-	-	-	-	-	-	-	-	-	11.8	11.8	11.0
54	Beaumont-Port Arthur-Orange .....	-	-	-	-	-	-	-	-	-	37.1	37.2	37.7
55	Corpus Christi .....	-	-	-	-	-	-	-	-	-	11.4	11.6	11.4

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

for States and selected areas, by industry division--Continued

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	
93.2	93.6	91.6	309.4	308.3	307.8	71.1	71.8	68.1	207.8	210.1	201.9	273.1	249.0	257.3	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
18.8	18.8	18.7	45.7	46.1	45.4	12.3	12.4	12.3	27.5	27.4	26.2	21.1	20.2	20.0	3
16.2	16.2	15.5	46.3	46.4	45.9	12.4	12.4	12.0	30.3	30.2	29.7	29.8	25.8	27.8	4
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
12.0	12.0	12.2	44.5	44.6	44.3	7.0	7.1	6.9	29.3	28.9	28.9	51.1	48.3	49.2	6
3.3	3.3	3.2	12.6	12.3	12.5	2.4	2.4	2.3	8.3	8.2	7.7	9.1	8.4	8.2	7
238.9	237.1	227.4	788.9	783.1	770.9	160.3	161.3	154.5	582.8	574.1	554.3	541.9	530.6	533.3	8
15.7	15.6	15.0	49.8	49.2	48.5	7.1	7.0	6.8	35.5	34.8	33.7	31.6	30.7	31.1	9
7.0	7.0	6.9	27.3	27.2	26.0	5.0	4.9	4.7	19.7	19.1	18.6	12.6	12.5	12.9	10
37.8	37.7	36.0	108.9	108.1	105.2	26.6	26.8	25.8	81.9	80.7	76.6	66.2	64.5	62.3	11
56.1	55.7	53.6	187.2	185.5	182.7	43.6	43.8	41.5	141.7	138.7	134.1	109.2	106.8	107.9	12
22.8	22.8	21.3	80.2	79.8	78.2	26.3	26.3	24.9	65.6	64.7	61.6	75.6	76.1	73.7	13
13.1	13.1	12.7	61.6	61.0	60.6	10.1	10.2	9.5	50.8	49.7	48.4	56.7	56.7	57.5	14
18.2	18.3	17.5	53.8	53.2	52.3	8.3	8.4	8.0	39.3	38.4	37.3	32.0	30.0	29.8	15
10.2	10.1	9.8	38.4	38.3	36.2	6.0	5.9	5.6	27.1	26.7	25.8	19.5	18.7	18.8	16
53.1	53.7	53.5	166.3	167.9	165.2	36.9	37.1	36.2	109.7	110.3	109.0	185.8	181.3	183.8	17
17.5	17.6	17.3	57.0	57.3	55.8	15.9	15.9	15.6	37.9	38.0	37.1	69.3	66.3	69.3	18
16.4	16.4	16.8	39.5	39.7	40.4	9.5	9.6	9.2	30.1	30.4	28.9	18.9	17.9	18.1	19
49.9	49.8	50.3	167.0	164.8	163.2	35.8	35.8	35.1	112.3	112.5	110.0	146.6	139.7	139.4	20
4.1	4.2	4.3	13.5	13.4	14.6	2.9	2.8	3.0	9.6	9.5	9.5	16.0	14.8	15.0	21
31.6	31.4	31.5	94.5	92.9	94.2	24.4	24.4	23.9	68.2	68.1	65.4	61.2	58.3	58.1	22
2.0	2.0	1.8	11.4	11.4	10.6	3.1	3.1	3.1	8.1	7.5	7.7	18.0	16.9	17.5	23
277.3	274.6	270.2	808.8	807.6	818.7	191.8	194.7	186.6	696.6	699.2	680.8	605.3	597.3	601.6	24
12.3	12.4	12.0	35.1	34.9	35.0	6.9	6.9	6.5	27.7	27.7	26.8	19.6	19.6	19.6	25
7.4	7.5	7.7	8.5	8.5	8.4	1.2	1.2	1.2	7.1	7.0	7.2	6.4	6.2	6.1	26
97.5	98.3	95.9	305.8	303.2	311.8	92.4	94.5	91.1	278.2	279.1	270.4	212.5	216.5	215.2	27
5.5	5.5	5.4	17.4	17.6	17.1	3.7	3.7	3.5	13.4	13.5	13.2	10.7	10.0	10.4	28
13.7	13.7	13.5	32.2	32.4	33.3	8.8	8.9	8.4	25.7	26.1	25.9	43.8	43.8	43.7	29
5.0	4.9	4.8	14.1	13.9	13.9	2.3	2.2	2.2	13.1	13.7	12.7	12.7	12.2	12.2	30
5.5	5.4	5.4	24.3	23.6	22.3	3.0	3.0	2.8	17.0	17.3	16.6	10.1	9.3	9.8	31
111.3	112.0	109.0	365.6	362.0	367.7	101.5	103.7	100.1	316.6	317.9	308.2	258.1	261.3	259.0	32
60.4	60.1	60.3	173.8	174.4	173.8	38.5	38.7	36.9	162.6	160.2	157.1	98.5	98.2	100.6	33
6.6	6.5	6.6	19.4	19.4	19.4	4.8	4.9	4.7	16.8	17.0	16.8	12.9	12.5	12.7	34
5.3	5.3	5.2	17.8	17.8	18.0	2.6	2.7	2.7	14.6	14.6	13.6	10.4	10.4	9.7	35
7.0	7.0	6.8	21.6	21.4	20.9	4.2	4.3	3.9	14.8	15.0	15.0	15.4	15.7	14.6	36
6.1	6.0	6.1	24.2	24.3	24.0	2.9	3.0	2.8	15.4	15.0	14.7	13.5	12.8	13.5	37
16.0	15.5	15.7	66.5	64.2	66.0	15.1	15.2	15.2	53.7	54.2	53.9	51.6	51.9	52.2	38
15.6	15.1	15.3	67.1	64.7	66.5	15.2	15.2	15.2	52.5	53.1	52.7	48.1	48.3	48.7	39
36.6	37.4	36.1	136.2	136.3	136.4	29.2	29.4	28.8	82.8	83.4	83.6	145.2	139.0	142.2	40
5.2	5.6	5.2	16.9	17.0	16.7	3.5	3.5	3.5	10.4	10.2	10.5	30.4	29.1	30.2	41
7.1	7.0	7.1	22.7	22.3	22.3	6.7	6.7	6.5	14.1	14.2	13.9	30.1	28.2	29.2	42
4.7	4.7	4.7	21.4	21.4	21.6	4.9	4.9	4.9	12.7	12.7	13.0	15.8	14.7	14.9	43
(*)	10.3	10.3	(*)	47.8	45.1	(*)	7.6	7.3	(*)	31.8	30.7	(*)	52.2	53.6	44
(*)	3.4	2.9	(*)	10.2	10.0	(*)	2.1	2.0	(*)	6.3	6.4	(*)	4.6	4.6	45
66.7	67.0	66.5	261.1	260.7	256.8	57.9	58.1	57.4	178.1	178.3	177.7	220.6	219.8	213.8	46
6.2	6.3	6.5	22.9	22.8	22.9	7.4	7.4	7.2	16.4	16.3	15.7	16.4	14.5	15.2	47
6.9	6.9	6.8	32.0	32.0	32.3	4.9	4.9	4.8	19.8	20.1	19.6	29.0	28.9	27.2	48
20.1	20.2	20.1	68.4	68.5	68.2	15.0	15.0	14.7	46.6	46.2	44.9	50.7	50.0	48.6	49
13.4	13.5	13.1	46.8	46.9	47.1	14.6	14.4	13.8	36.2	36.1	35.1	33.8	33.5	33.3	50
270.4	273.5	259.0	903.1	902.2	862.0	196.5	197.4	186.9	628.7	632.8	591.1	661.9	644.4	642.1	51
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**

**B-7: Employees on nonagricultural payrolls**

(In thousands)

	State and area	TOTAL			Mining			Contract construction			Manufacturing		
		Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969
1	TEXAS (continued)												
	Dallas	668.1	664.6	657.1	7.6	7.8	7.9	41.3	41.8	38.2	154.0	155.2	173.4
2	El Paso	-	-	-	-	-	-	-	-	-	24.8	24.7	23.4
3	Fort Worth	264.6	265.2	269.1	1.8	1.8	1.9	11.3	11.5	13.3	87.6	88.7	95.5
4	Galveston-Texas City	-	-	-	-	-	-	-	-	-	11.9	12.1	11.8
5	Houston	786.5	780.4	757.4	30.8	31.6	29.1	76.7	76.1	73.6	143.5	144.0	144.1
6	Lubbock	-	-	-	-	-	-	-	-	-	6.4	6.4	7.1
7	San Antonio	258.3	257.6	260.1	1.4	1.4	1.4	14.4	14.4	16.3	32.3	32.6	33.5
8	Waco	-	-	-	-	-	-	-	-	-	12.5	12.6	13.4
9	Wichita Falls	-	-	-	-	-	-	-	-	-	4.4	4.6	4.6
10	UTAH	366.6	364.4	357.8	13.2	13.3	12.9	17.5	17.8	16.6	56.6	56.4	56.1
11	Salt Lake City	193.1	190.7	189.1	7.9	7.8	7.8	9.7	9.5	8.8	28.8	28.9	29.1
12	VERMONT	149.7	153.2	147.4	1.0	1.0	1.0	11.7	11.9	11.0	40.5	41.0	43.7
13	Burlington <sup>10</sup>	39.0	39.2	37.8	-	-	-	-	-	-	10.6	10.8	10.9
14	Springfield <sup>10</sup>	12.5	12.5	13.6	-	-	-	-	-	-	5.3	5.3	6.8
15	VIRGINIA <sup>4</sup>	1,459.5	1,453.4	1,451.1	15.7	15.6	14.7	99.1	101.4	97.3	363.4	363.5	372.8
16	Lynchburg	53.3	53.1	51.2	(1)	(1)	(1)	3.1	3.2	2.9	24.3	24.4	24.2
17	Newport News-Hampton	96.2	96.2	97.8	(1)	(1)	(1)	5.8	5.9	5.6	24.2	24.5	27.0
18	Norfolk-Portsmouth	201.2	199.6	199.8	(1)	(1)	(1)	14.2	14.1	13.6	19.8	19.9	20.6
19	Northern Virginia <sup>11</sup>	266.4	264.4	253.9	.4	.4	.4	21.4	22.4	22.3	8.8	8.8	9.4
20	Richmond	236.9	236.0	232.9	.2	.2	.2	15.5	15.7	15.8	51.8	51.8	52.0
21	Roanoke	82.7	82.6	81.3	.1	.1	.1	5.4	5.5	5.3	19.4	19.6	19.2
22	WASHINGTON	1,094.0	1,087.3	1,152.0	1.8	1.8	1.8	58.4	60.3	65.4	238.0	241.8	284.7
23	Seattle-Everett	521.1	522.1	569.6	(1)	(1)	(1)	26.5	27.5	32.8	120.3	125.1	160.6
24	Spokane	90.5	89.0	90.0	(1)	(1)	(1)	5.6	5.7	5.5	12.3	12.3	13.6
25	Tacoma	109.7	108.0	111.1	(1)	(1)	(1)	5.3	5.3	6.4	20.4	20.3	21.2
26	WEST VIRGINIA	519.7	514.6	518.7	49.2	49.0	47.8	25.3	25.5	27.3	128.3	127.6	132.4
27	Charleston	80.5	80.9	83.0	4.1	4.1	3.6	3.7	3.7	4.6	17.0	17.4	18.2
28	Huntington-Ashland	82.6	82.0	82.5	.5	.5	.5	3.4	3.5	3.7	27.2	26.9	27.4
29	Wheeling	59.3	59.1	58.0	5.2	5.2	4.4	3.2	3.1	3.8	16.1	16.2	15.9
30	WISCONSIN	1,566.0	1,549.1	1,553.4	3.0	3.0	2.9	64.8	66.1	73.4	507.4	509.6	531.2
31	Green Bay	56.3	56.2	55.6	(1)	(1)	(1)	2.3	2.2	2.9	18.0	18.5	17.9
32	Kenosha	36.3	34.2	34.0	(1)	(1)	(1)	1.1	1.2	1.3	17.0	15.8	15.6
33	La Crosse	29.4	29.1	30.4	(1)	(1)	(1)	1.1	1.2	1.5	7.8	8.2	8.9
34	Madison	125.2	121.3	121.2	(1)	(1)	(1)	7.3	7.5	7.2	16.3	16.7	17.0
35	Milwaukee	577.1	571.9	574.9	(1)	(1)	(1)	22.6	23.0	25.8	204.5	202.8	213.3
36	Racine	53.8	54.4	56.3	(1)	(1)	(1)	1.7	1.8	1.9	23.0	24.3	26.5
37	WYOMING	111.3	114.9	112.6	11.8	11.7	12.4	6.4	6.9	7.7	7.1	7.3	7.1
38	Casper	19.5	19.6	20.3	4.6	4.6	4.6	1.1	1.1	1.2	1.3	1.4	1.4
39	Cheyenne	18.3	18.9	18.7	(1)	(1)	(1)	.9	1.0	1.2	1.2	1.3	1.1

1 Combined with services.  
 2 Revised to 1970 benchmark; not strictly comparable with previously published data.  
 3 Combined with construction.  
 4 Federal employment in the Maryland and Virginia sectors of the Washington Standard Metropolitan Statistical Area is included in data for the District of Columbia.  
 5 Area included in Chicago-Northwestern Indiana Standard Consolidated Area.  
 6 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.  
 7 Area included in New York-Northeastern New Jersey Standard Consolidated Area.  
 8 Subarea of Rochester Standard Metropolitan Statistical Area.  
 9 Subarea of New York Standard Metropolitan Statistical Area.  
 10 Total includes data for industry divisions not shown separately. Services excludes agriculture, forestry, and fisheries.  
 11 Subarea of Washington, D.C. Standard Metropolitan Statistical Area.

\* Not available.  
 p = preliminary.  
 SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA  
STATE AND AREA EMPLOYMENT**
**for States and selected areas, by industry division--Continued**

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969	
54.1	54.0	52.4	179.6	179.6	169.0	56.3	56.8	52.7	104.8	103.2	97.6	70.4	66.3	66.0	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
15.8	15.8	15.7	63.5	63.2	60.5	12.1	12.2	11.8	38.0	38.8	37.2	34.5	33.2	33.2	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
68.8	69.4	66.5	189.5	189.9	181.6	41.2	41.8	39.0	146.2	146.7	137.6	89.8	80.9	85.9	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
10.9	11.0	11.2	63.5	63.6	62.4	16.5	16.5	16.1	45.1	45.3	44.5	74.2	72.8	74.7	7
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
23.7	23.8	23.6	82.0	81.7	80.2	15.6	15.6	14.6	58.8	59.5	55.2	99.2	96.3	98.6	10
16.3	16.2	15.6	50.6	50.4	50.5	11.5	11.4	11.1	33.5	33.3	31.6	34.9	33.1	34.5	11
8.3	8.4	7.9	28.5	28.6	27.5	5.5	5.6	5.2	27.7	32.2	26.3	26.6	24.6	24.8	12
2.0	2.0	1.9	8.0	7.5	7.3	-	-	-	7.3	7.8	7.0	-	-	-	13
.9	.9	.9	1.9	1.9	1.9	-	-	-	1.7	1.8	1.6	-	-	-	14
100.0	100.0	97.1	303.2	302.7	298.7	69.7	70.8	66.8	211.1	212.5	211.7	297.3	286.9	292.0	15
2.6	2.5	2.4	9.0	9.0	8.2	2.1	2.1	1.9	6.5	6.4	6.1	5.7	5.5	5.5	16
4.4	4.5	4.3	17.5	17.5	16.6	2.9	3.0	2.9	12.9	12.9	12.3	28.5	27.9	29.1	17
16.2	16.4	16.5	49.9	50.2	48.7	9.7	9.7	9.3	31.2	31.3	30.2	60.2	58.0	60.9	18
20.9	20.8	19.6	60.8	61.1	59.2	15.9	16.5	15.2	44.7	44.2	45.0	93.5	90.2	82.8	19
18.5	18.6	17.8	54.0	53.7	53.0	18.5	18.6	18.0	34.7	34.7	34.0	43.7	42.7	42.1	20
10.9	11.2	11.0	19.4	19.5	18.9	4.1	4.2	4.1	13.1	12.7	12.7	10.3	9.8	10.0	21
74.3	75.0	75.5	249.6	247.3	256.8	58.2	59.0	59.3	173.7	173.2	172.2	240.0	228.9	236.3	22
39.8	39.9	41.0	122.0	122.6	125.6	36.3	36.5	36.4	84.1	84.9	85.3	92.1	85.6	87.9	23
7.5	7.7	7.7	23.8	23.6	23.7	5.3	5.3	5.1	18.8	18.0	18.3	17.2	16.4	16.1	24
7.0	6.9	7.0	24.8	24.3	25.3	6.3	6.3	6.2	19.2	19.1	18.9	26.7	25.8	26.1	25
42.5	42.7	41.7	93.9	94.1	93.2	15.7	15.7	15.2	66.4	65.8	65.1	98.4	94.1	96.0	26
8.9	9.0	8.9	18.8	18.7	18.7	4.1	4.1	3.8	11.6	11.5	11.6	12.3	12.3	13.6	27
8.3	8.4	8.1	17.9	17.8	17.7	2.9	2.9	2.8	10.0	10.0	10.2	12.4	12.1	12.0	28
3.8	3.8	3.7	12.6	12.6	12.8	2.2	2.2	2.2	9.2	9.1	8.6	7.0	6.9	6.7	29
83.1	80.4	81.4	344.6	342.0	327.5	62.4	63.0	59.7	231.5	230.9	220.8	269.4	254.2	256.6	30
4.7	4.8	4.6	14.4	14.0	13.9	1.5	1.5	1.4	8.5	8.4	8.2	7.0	6.8	6.6	31
1.3	1.2	1.3	6.5	6.3	6.0	.7	.7	.7	4.8	4.7	4.7	4.8	4.3	4.4	32
2.2	2.2	2.2	7.4	7.1	7.2	.7	.7	.6	5.7	5.6	5.5	4.5	4.0	4.3	33
6.0	6.0	5.5	25.3	24.9	23.7	6.7	6.8	6.3	18.5	18.0	17.3	45.1	41.5	44.2	34
32.0	31.3	31.5	126.3	125.5	120.4	29.4	29.5	28.2	87.8	87.1	84.7	74.5	72.8	71.1	35
2.1	1.9	2.2	10.2	10.1	9.6	1.4	1.4	1.5	8.1	8.0	7.7	7.3	6.9	6.8	36
11.2	11.7	11.4	24.4	25.3	25.5	3.8	3.8	3.6	16.0	18.9	17.0	30.6	29.3	27.9	37
1.3	1.3	1.5	4.5	4.5	4.5	.8	.9	.9	2.2	2.4	2.5	3.7	3.4	3.7	38
2.3	2.4	2.5	4.1	4.3	4.0	1.0	1.0	1.0	3.3	3.3	3.4	5.5	5.6	5.5	39

Advertisement on page 78 omitted.

## ESTABLISHMENT DATA HISTORICAL HOURS AND EARNINGS

**C-1: Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, 1947 to date**

Year and month	Average			Average			Average			Average		
	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings	Weekly earnings	Weekly hours	Hourly earnings
	Total private <sup>1</sup>			Mining			Contract construction			Manufacturing		
1947.....	\$45.58	40.3	\$1.131	\$59.94	40.8	\$1.469	\$58.87	38.2	\$1.541	\$49.17	40.4	\$1.217
1948.....	49.00	40.0	1.225	65.56	39.4	1.664	65.27	38.1	1.713	53.12	40.0	1.328
1949.....	50.24	39.4	1.275	62.33	36.3	1.717	67.56	37.7	1.792	53.88	39.1	1.378
1950.....	53.13	39.8	1.335	67.16	37.9	1.772	69.68	37.4	1.863	58.32	40.5	1.440
1951.....	57.86	39.9	1.45	74.11	38.4	1.93	76.96	38.1	2.02	63.34	40.6	1.56
1952.....	60.65	39.9	1.52	77.59	38.6	2.01	82.86	38.9	2.13	67.16	40.7	1.65
1953.....	63.76	39.6	1.61	83.03	38.8	2.14	86.41	37.9	2.28	70.47	40.5	1.74
1954.....	64.52	39.1	1.65	82.60	38.6	2.14	88.91	37.2	2.39	70.49	39.6	1.78
1955.....	67.72	39.6	1.71	89.54	40.7	2.20	90.90	37.1	2.45	75.70	40.7	1.86
1956.....	70.74	39.3	1.80	95.06	40.8	2.33	96.38	37.5	2.57	78.78	40.4	1.95
1957.....	73.33	38.8	1.89	98.65	40.1	2.46	100.27	37.0	2.71	81.59	39.8	2.05
1958.....	75.08	38.5	1.95	96.08	38.9	2.47	103.78	36.8	2.82	82.71	39.2	2.11
1959 <sup>2</sup> .....	78.78	39.0	2.02	103.68	40.5	2.56	108.41	37.0	2.93	88.26	40.3	2.19
1960.....	80.67	38.6	2.09	105.44	40.4	2.61	113.04	36.7	3.08	89.72	39.7	2.26
1961.....	82.60	38.6	2.14	106.92	40.5	2.64	118.08	36.9	3.20	92.34	39.8	2.32
1962.....	85.91	38.7	2.22	110.43	40.9	2.70	122.47	37.0	3.31	96.56	40.4	2.39
1963.....	88.46	38.8	2.28	114.40	41.6	2.75	127.19	37.3	3.41	99.63	40.5	2.46
1964.....	91.33	38.7	2.36	117.74	41.9	2.81	132.06	37.2	3.55	102.97	40.7	2.53
1965.....	95.06	38.8	2.45	123.52	42.3	2.92	138.38	37.4	3.70	107.53	41.2	2.61
1966.....	98.82	38.6	2.56	130.24	42.7	3.05	146.26	37.6	3.89	112.34	41.3	2.72
1967.....	101.84	38.0	2.68	135.89	42.6	3.19	154.95	37.7	4.11	114.90	40.6	2.83
1968.....	107.73	37.8	2.85	142.71	42.6	3.35	164.93	37.4	4.41	122.51	40.7	3.01
1969.....	114.61	37.7	3.04	154.80	43.0	3.60	181.16	37.9	4.78	129.51	40.6	3.19
1969: October.....	117.31	37.6	3.12	159.78	43.3	3.69	189.97	38.3	4.96	132.28	40.7	3.25
November.....	117.38	37.5	3.13	161.08	43.3	3.72	184.39	37.1	4.97	132.36	40.6	3.26
December.....	117.62	37.7	3.12	160.64	43.3	3.71	189.13	37.6	5.03	134.89	41.0	3.29
1970: January.....	116.12	37.1	3.13	159.05	42.3	3.76	181.00	35.7	5.07	131.93	40.1	3.29
February.....	116.55	37.0	3.15	160.60	42.6	3.77	186.21	36.8	5.06	130.94	39.8	3.29
March.....	117.92	37.2	3.17	160.27	42.4	3.78	188.23	37.2	5.06	132.40	40.0	3.31
April.....	117.34	36.9	3.18	163.35	43.1	3.79	192.91	37.9	5.09	131.80	39.7	3.32
May.....	118.40	37.0	3.20	162.26	42.7	3.80	194.31	38.1	5.10	132.93	39.8	3.34
June.....	120.05	37.4	3.21	163.88	42.9	3.82	196.99	38.4	5.13	134.40	40.0	3.36
July.....	121.45	37.6	3.23	163.88	42.9	3.82	200.20	38.5	5.20	134.46	39.9	3.37
August.....	122.20	37.6	3.25	163.97	42.7	3.84	204.05	38.5	5.30	134.13	39.8	3.37
September <sup>P</sup> .....	121.36	37.0	3.28	164.51	42.4	3.88	193.14	36.1	5.35	135.43	39.6	3.42
October <sup>P</sup> .....	121.03	36.9	3.28	166.21	42.4	3.92	201.96	37.4	5.40	133.85	39.6	3.38
Year and month	Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services		
1947.....	-	-	-	\$38.07	40.5	\$0.940	\$43.21	37.9	\$1.140	-	-	-
1948.....	-	-	-	40.80	40.4	1.010	45.48	37.9	1.200	-	-	-
1949.....	-	-	-	42.93	40.5	1.060	47.63	37.8	1.260	-	-	-
1950.....	-	-	-	44.55	40.5	1.00	50.52	37.7	1.340	-	-	-
1951.....	-	-	-	47.79	40.5	1.18	54.67	37.7	1.45	-	-	-
1952.....	-	-	-	49.20	40.0	1.23	57.08	37.8	1.51	-	-	-
1953.....	-	-	-	51.35	39.5	1.30	59.57	37.7	1.58	-	-	-
1954.....	-	-	-	53.33	39.5	1.35	62.04	37.6	1.65	-	-	-
1955.....	-	-	-	55.16	39.4	1.40	63.92	37.6	1.70	-	-	-
1956.....	-	-	-	57.48	39.1	1.47	65.68	36.9	1.78	-	-	-
1957.....	-	-	-	59.60	38.7	1.54	67.53	36.7	1.84	-	-	-
1958.....	-	-	-	61.76	38.6	1.60	70.12	37.1	1.89	-	-	-
1959 <sup>2</sup> .....	-	-	-	64.41	38.8	1.66	72.74	37.3	1.95	-	-	-
1960.....	-	-	-	66.01	38.6	1.71	75.14	37.2	2.02	-	-	-
1961.....	-	-	-	67.41	38.3	1.76	77.12	36.9	2.09	-	-	-
1962.....	-	-	-	69.91	38.2	1.83	80.94	37.3	2.17	-	-	-
1963.....	-	-	-	72.01	38.1	1.89	84.38	37.5	2.25	-	-	-
1964.....	\$118.37	41.1	\$2.88	74.28	37.9	1.96	85.79	37.3	2.30	\$69.84	36.0	\$1.94
1965.....	125.14	41.3	3.03	76.53	37.7	2.03	88.91	37.2	2.39	73.60	35.9	2.05
1966.....	128.13	41.2	3.11	79.02	37.1	2.13	92.13	37.3	2.47	77.04	35.5	2.17
1967.....	131.22	40.5	3.24	81.76	36.5	2.24	95.46	37.0	2.58	80.38	35.1	2.29
1968.....	138.85	40.6	3.42	86.40	36.0	2.40	101.75	37.0	2.75	84.32	34.7	2.43
1969.....	147.74	40.7	3.63	91.14	35.6	2.56	108.33	37.1	2.92	91.26	34.7	2.60
1969: October.....	151.70	41.0	3.70	92.13	35.3	2.61	109.45	37.1	2.95	92.81	34.5	2.69
November.....	152.15	40.9	3.72	92.58	35.2	2.63	111.23	37.2	2.99	94.11	34.6	2.72
December.....	151.78	40.8	3.72	93.18	35.7	2.61	110.26	37.0	2.98	94.11	34.6	2.72
1970: January.....	151.07	40.5	3.73	93.02	35.1	2.65	111.44	36.9	3.02	93.98	34.3	2.74
February.....	151.88	40.5	3.75	93.80	35.0	2.68	112.48	37.0	3.04	95.01	34.3	2.77
March.....	150.75	40.2	3.75	93.80	35.0	2.68	112.85	37.0	3.05	96.81	34.7	2.79
April.....	149.25	39.8	3.75	93.88	34.9	2.69	111.81	36.9	3.03	95.70	34.3	2.79
May.....	153.12	40.4	3.79	94.50	35.0	2.70	111.57	36.7	3.04	96.04	34.3	2.80
June.....	156.29	40.7	3.84	96.12	35.6	2.70	111.57	36.7	3.04	96.95	34.5	2.81
July.....	159.06	41.1	3.87	98.10	36.2	2.71	112.61	36.8	3.06	98.77	34.9	2.83
August.....	159.51	40.9	3.90	98.74	36.3	2.72	113.65	36.9	3.08	99.75	35.0	2.85
September <sup>P</sup> .....	159.95	40.7	3.93	97.08	35.3	2.75	112.73	36.6	3.08	99.76	34.4	2.90
October <sup>P</sup> .....	160.78	40.6	3.96	96.60	35.0	2.76	113.77	36.7	3.10	99.76	34.4	2.90

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

<sup>2</sup> Data include Alaska and Hawaii 1959.

<sup>P</sup> preliminary

**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**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969
-	<b>TOTAL PRIVATE</b> .....	\$121.03	\$121.36	\$122.20	\$117.31	\$117.87	\$3.28	\$3.28	\$3.25	\$3.12	\$3.11
-	<b>MINING</b> .....	166.21	164.51	163.97	159.78	158.41	3.92	3.88	3.84	3.69	3.65
10	<b>METAL MINING</b> .....	-	169.15	166.18	161.88	160.33	-	3.98	3.91	3.73	3.72
101	Iron ores .....	-	167.18	168.30	159.33	160.06	-	3.99	3.96	3.83	3.82
102	Copper ores .....	-	176.31	173.41	172.61	171.03	-	3.98	3.95	3.72	3.71
11,12	<b>COAL MINING</b> .....	-	180.67	179.86	175.71	167.22	-	4.45	4.43	4.36	4.17
12	Bituminous coal and lignite mining .....	-	182.29	181.48	178.20	170.08	-	4.49	4.47	4.40	4.21
13	<b>OIL AND GAS EXTRACTION</b> .....	-	153.19	152.22	150.42	151.20	-	3.63	3.59	3.45	3.46
131,2	Crude petroleum and natural gas fields .....	-	159.12	156.31	144.36	147.83	-	3.90	3.85	3.60	3.65
138	Oil and gas field services .....	-	148.26	149.80	154.22	153.55	-	3.44	3.42	3.36	3.36
14	<b>NONMETALLIC MINERALS, EXCEPT FUELS</b> .....	-	161.10	161.32	157.30	158.73	-	3.58	3.53	3.39	3.37
142	Crushed and broken stone .....	-	161.35	161.58	161.47	166.30	-	3.50	3.46	3.35	3.38
-	<b>CONTRACT CONSTRUCTION</b> .....	201.96	193.14	204.05	189.97	193.36	5.40	5.35	5.30	4.96	4.92
15	<b>GENERAL BUILDING CONTRACTORS</b> .....	-	182.69	189.30	175.90	176.33	-	5.19	5.13	4.78	4.74
16	<b>HEAVY CONSTRUCTION CONTRACTORS</b> .....	-	193.94	214.14	196.74	207.41	-	4.96	4.98	4.64	4.64
161	Highway and street construction .....	-	186.28	207.54	186.06	200.23	-	4.74	4.76	4.43	4.42
162	Heavy construction, n.e.c. ....	-	200.60	220.90	207.58	214.33	-	5.17	5.21	4.85	4.86
17	<b>SPECIAL TRADE CONTRACTORS</b> .....	-	199.23	207.39	195.45	196.32	-	5.66	5.59	5.24	5.18
171	Plumbing, heating, air conditioning .....	-	208.87	217.55	207.97	208.15	-	5.77	5.74	5.36	5.31
172	Painting, paper hanging, decorating .....	-	176.06	181.30	175.51	180.20	-	5.24	5.18	4.93	4.91
173	Electrical work .....	-	224.97	236.59	232.64	231.26	-	6.13	6.02	5.73	5.71
174	Masonry, stonework, and plastering .....	-	183.15	187.14	176.46	179.42	-	5.50	5.44	5.10	5.04
176	Roofing and sheetmetal work .....	-	166.98	174.15	163.88	165.18	-	5.06	4.99	4.75	4.64
-	<b>MANUFACTURING</b> .....	133.85	135.43	134.13	132.28	132.84	3.38	3.42	3.37	3.25	3.24
19,24,25, 32-39	<b>DURABLE GOODS</b> .....	142.80	145.16	143.92	142.83	143.45	3.57	3.62	3.58	3.45	3.44
20-23,26-31	<b>NONDURABLE GOODS</b> .....	121.68	122.15	121.04	117.51	118.00	3.12	3.14	3.08	2.96	2.95
	<i>Durable Goods</i>										
19	<b>ORDNANCE AND ACCESSORIES</b> .....	145.96	146.37	145.52	140.24	140.48	3.64	3.65	3.62	3.48	3.46
192	Ammunition, except for small arms .....	(*)	141.45	141.77	134.30	135.26	(*)	3.59	3.58	3.40	3.39
1925	Complete guided missiles .....	-	174.71	176.40	170.95	171.78	-	4.22	4.21	4.08	4.09
1929	Ammunition, exc. for small arms, nec .....	-	122.24	122.88	118.20	118.26	-	3.20	3.20	3.07	3.04
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	119.87	120.69	122.31	114.05	114.45	3.05	3.04	3.05	2.83	2.84
242	Sawmills and planing mills .....	113.97	114.55	116.91	110.16	110.57	2.90	2.90	2.93	2.72	2.73
2421	Sawmills and planing mills, general .....	-	118.50	120.90	113.52	113.93	-	3.00	3.03	2.81	2.82
243	Millwork, plywood & related products .....	127.04	127.36	128.24	120.20	120.69	3.20	3.20	3.19	2.99	2.98
2431	Millwork .....	-	122.46	123.86	116.72	115.74	-	3.14	3.12	2.97	2.93
2432	Veneer and plywood .....	-	130.65	130.97	120.54	122.25	-	3.21	3.21	2.94	2.96
244	Wooden containers .....	(*)	93.12	96.11	92.10	91.41	(*)	2.47	2.49	2.32	2.32
2441,2	Wooden boxes, shooks, and crates .....	-	91.48	95.10	90.80	91.14	-	2.42	2.47	2.27	2.29
249	Miscellaneous wood products .....	105.97	107.68	106.60	102.09	101.50	2.61	2.62	2.60	2.49	2.50
25	<b>FURNITURE AND FIXTURES</b> .....	112.00	108.92	111.00	108.81	109.08	2.80	2.80	2.81	2.68	2.68
251	Household furniture .....	(*)	101.78	103.10	102.21	102.21	(*)	2.63	2.63	2.53	2.53
2511	Wood household furniture .....	-	94.71	96.43	98.06	98.06	-	2.46	2.46	2.38	2.38
2512	Upholstered household furniture .....	-	109.98	109.13	107.32	106.77	-	2.82	2.82	2.71	2.71
2515	Mattresses and bedsprings .....	-	113.08	117.05	107.68	110.25	-	2.87	2.89	2.74	2.77
252	Office furniture .....	-	120.05	125.14	127.07	128.10	-	3.11	3.16	3.04	3.00
254	Partitions and fixtures .....	-	137.02	143.38	133.82	137.45	-	3.40	3.48	3.28	3.32
253,9	Other furniture and fixtures .....	120.99	118.26	119.30	115.83	116.28	3.04	3.04	2.99	2.86	2.85
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	143.24	143.24	142.35	137.67	137.80	3.46	3.46	3.43	3.27	3.25
321	Flat glass .....	-	202.33	188.35	177.62	175.09	-	4.35	4.32	4.15	4.11
322	Glass and glassware, pressed or blown .....	138.98	139.20	138.00	133.57	132.76	3.44	3.48	3.45	3.29	3.27
3221	Glass containers .....	-	141.65	143.67	137.23	137.23	-	3.55	3.53	3.38	3.38
3229	Pressed and blown glass, n.e.c. ....	-	135.54	129.54	128.39	126.67	-	3.38	3.33	3.17	3.12
324	Cement, hydraulic .....	178.83	187.44	178.45	166.32	163.31	4.33	4.40	4.30	3.96	3.87
325	Structural clay products .....	115.20	115.78	114.17	111.65	112.34	2.88	2.88	2.84	2.75	2.74
3251	Brick and structural clay tile .....	-	110.16	108.53	107.79	107.59	-	2.70	2.66	2.61	2.58
326	Pottery and related products .....	-	116.05	116.96	116.80	116.42	-	3.03	3.03	2.92	2.94
327	Concrete, gypsum, and plaster products .....	153.08	151.71	155.32	147.52	149.07	3.56	3.52	3.53	3.33	3.32
328,9	Other stone and nonmetallic mineral products .....	(*)	141.80	139.74	135.94	136.83	(*)	3.45	3.40	3.26	3.25
3291	Abrasive products .....	-	131.32	128.76	130.26	131.01	-	3.53	3.48	3.34	3.30

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 nongovernmental payrolls, by industry**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969
-	<b>TOTAL PRIVATE</b> . . . . .	36.9	37.0	37.6	37.6	37.9	-	-	-	-	-
-	<b>MINING</b> . . . . .	42.4	42.4	42.7	43.3	43.4	-	-	-	-	-
10	METAL MINING . . . . .	-	42.5	42.5	43.4	43.1	-	-	-	-	-
101	Iron ores . . . . .	-	41.9	42.5	41.6	41.9	-	-	-	-	-
102	Copper ores . . . . .	-	44.3	43.9	46.4	46.1	-	-	-	-	-
11,12	COAL MINING . . . . .	-	40.6	40.6	40.3	40.1	-	-	-	-	-
12	Bituminous coal and lignite mining . .	-	40.6	40.6	40.5	40.4	-	-	-	-	-
13	OIL AND GAS EXTRACTION . . . . .	-	42.2	42.4	43.6	43.7	-	-	-	-	-
131,2	Crude petroleum and natural gas fields	-	40.8	40.6	40.1	40.5	-	-	-	-	-
138	Oil and gas field services . . . . .	-	43.1	43.8	45.9	45.7	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	-	45.0	45.7	46.4	47.1	-	-	-	-	-
142	Crushed and broken stone . . . . .	-	46.1	46.7	48.2	49.2	-	-	-	-	-
-	<b>CONTRACT CONSTRUCTION</b> . . . . .	37.4	36.1	38.5	38.3	39.3	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS . . .	-	35.2	36.9	36.8	37.2	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS . .	-	39.1	43.0	42.4	44.7	-	-	-	-	-
161	Highway and street construction . . .	-	39.3	43.6	42.0	45.3	-	-	-	-	-
162	Heavy construction, n e c . . . . .	-	38.8	42.4	42.8	44.1	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS . . . . .	-	35.2	37.1	37.3	37.9	-	-	-	-	-
171	Plumbing, heating, air conditioning . .	-	36.2	37.9	38.8	39.2	-	-	-	-	-
172	Painting, paper hanging, decorating . .	-	33.6	35.0	35.6	36.7	-	-	-	-	-
173	Electrical work . . . . .	-	36.7	39.3	40.6	40.5	-	-	-	-	-
174	Masonry, stonework, and plastering . .	-	33.3	34.4	34.6	35.6	-	-	-	-	-
176	Roofing and sheet metal work . . . . .	-	33.0	34.9	34.5	35.6	-	-	-	-	-
-	<b>MANUFACTURING</b> . . . . .	39.6	39.6	39.8	40.7	41.0	2.8	3.0	3.0	3.7	4.0
19,24,25,32-39	DURABLE GOODS . . . . .	40.0	40.1	40.2	41.4	41.7	2.7	3.0	2.9	3.9	4.2
20-23,26-31	NONDURABLE GOODS . . . . .	39.0	38.9	39.3	39.7	40.0	2.9	3.1	3.1	3.5	3.7
	Durable Goods . . . . .										
19	ORDNANCE AND ACCESSORIES . . . . .	40.1	40.1	40.2	40.3	40.6	-	2.1	2.4	2.3	2.6
192	Ammunition, except for small arms . .	(*)	39.4	39.6	39.5	39.9	-	1.7	1.9	1.9	2.1
1925	Complete guided missiles . . . . .	-	41.4	41.9	41.9	42.0	-	-	-	-	-
1929	Ammunition, exc. for small arms, nec	-	38.2	38.4	38.5	38.9	-	-	-	-	-
24	LUMBER AND WOOD PRODUCTS . . . . .	39.3	39.7	40.1	40.3	40.3	-	3.0	3.5	3.7	3.9
242	Sawmills and planing mills . . . . .	39.3	39.5	39.9	40.5	40.5	-	3.2	3.8	4.1	4.1
2421	Sawmills and planing mills, general	-	39.5	39.9	40.4	40.4	-	-	-	-	-
243	Millwork, plywood & related products .	39.7	39.8	40.2	40.2	40.5	-	2.9	3.3	3.2	3.5
2431	Millwork . . . . .	-	39.0	39.7	39.3	39.5	-	-	-	-	-
2432	Veneer and plywood . . . . .	-	40.7	40.8	41.0	41.3	-	-	-	-	-
244	Wooden containers . . . . .	(*)	37.7	38.6	39.7	39.4	-	1.9	2.6	3.4	3.2
2441,2	Wooden boxes, shooks, and crates . . .	-	37.8	38.5	40.0	39.8	-	-	-	-	-
249	Miscellaneous wood products . . . . .	40.6	41.1	41.0	41.0	40.6	-	3.0	3.3	3.8	4.1
25	FURNITURE AND FIXTURES . . . . .	40.0	38.9	39.5	40.6	40.7	-	2.2	2.4	3.5	3.7
251	Household furniture . . . . .	(*)	38.7	39.2	40.4	40.4	-	2.0	2.1	3.4	3.5
2511	Wood household furniture . . . . .	-	38.5	39.2	41.2	41.2	-	-	-	-	-
2512	Upholstered household furniture . . . .	-	39.0	38.7	39.6	39.4	-	-	-	-	-
2515	Mattresses and bedsprings . . . . .	-	39.4	40.5	39.3	39.8	-	-	-	-	-
252	Office furniture . . . . .	-	38.6	39.6	41.8	42.7	-	1.8	3.1	4.4	4.9
254	Partitions and fixtures . . . . .	-	40.3	41.2	40.8	41.4	-	3.3	3.7	3.7	4.1
253,9	Other furniture and fixtures . . . . .	39.8	38.9	39.9	40.5	40.8	-	2.2	2.4	3.3	3.9
32	STONE, CLAY, AND GLASS PRODUCTS . .	41.4	41.4	41.5	42.1	42.4	-	4.3	4.5	5.0	5.3
321	Flat glass . . . . .	-	46.2	43.6	42.8	42.6	-	6.6	4.9	4.6	5.2
322	Glass and glassware, pressed or blown	40.4	40.0	40.0	40.6	40.6	-	4.6	4.1	4.6	4.7
3221	Glass containers . . . . .	-	39.9	40.7	40.6	40.6	-	-	-	-	-
3229	Pressed and blown glass, n e c . . . .	-	40.1	38.9	40.5	40.6	-	-	-	-	-
324	Cement, hydraulic . . . . .	41.3	42.6	41.5	42.0	42.2	-	3.5	3.0	3.3	3.4
325	Structural clay products . . . . .	40.0	40.2	40.2	40.6	41.0	-	3.2	3.5	3.9	4.2
3251	Brick and structural clay tile . . . . .	-	40.8	40.8	41.3	41.7	-	-	-	-	-
326	Pottery and related products . . . . .	-	38.3	38.6	40.0	39.6	-	2.1	2.1	2.9	2.9
327	Concrete, gypsum and plaster products . . . . .	43.0	43.1	44.0	44.3	44.9	-	5.4	6.7	7.0	7.5
328,9	Other stone and nonmetallic mineral products . . . . .	(*)	41.1	41.1	41.7	42.1	-	3.6	3.6	4.3	4.5
3291	Abrasive products . . . . .	-	37.2	37.0	39.0	39.7	-	-	-	-	-

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**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969
	<i>Durable Goods--Continued</i>										
33	<b>PRIMARY METAL INDUSTRIES</b> .....	\$154.40	\$167.69	\$160.80	\$160.55	\$162.93	\$4.00	\$4.08	\$3.99	\$3.85	\$3.87
331	Blast furnace and basic steel products ..	159.22	182.70	171.30	169.33	173.05	4.28	4.35	4.24	4.11	4.14
3312	Blast furnaces and steel mills .....	-	185.66	173.29	171.38	175.55	-	4.41	4.30	4.18	4.22
332	Iron and steel foundries .....	(*)	152.42	148.77	153.91	153.79	(*)	3.82	3.71	3.63	3.61
3321	Gray iron foundries .....	-	151.64	144.91	156.28	155.00	-	3.81	3.65	3.66	3.63
3322	Malleable iron foundries .....	-	166.18	170.10	151.33	154.80	-	4.25	4.20	3.70	3.73
3323	Steel foundries .....	-	149.78	147.78	148.61	149.88	-	3.68	3.64	3.53	3.51
333,4	Nonferrous metals .....	(*)	164.16	159.68	155.18	156.71	(*)	3.89	3.82	3.66	3.67
3334	Primary aluminum .....	-	174.28	168.91	165.61	166.00	-	4.23	4.15	4.01	4.00
335	Nonferrous rolling and drawing .....	(*)	153.71	150.18	151.08	152.87	(*)	3.74	3.69	3.58	3.58
3351	Copper rolling and drawing .....	-	148.80	144.60	154.15	157.91	-	3.72	3.67	3.61	3.63
3352	Aluminum rolling and drawing .....	-	157.44	153.38	157.08	153.97	-	3.84	3.75	3.67	3.64
3357	Nonferrous wire drawing and insulating ..	-	154.93	150.38	144.84	150.23	-	3.68	3.65	3.49	3.51
336	Nonferrous foundries .....	(*)	139.23	137.90	139.40	140.27	(*)	3.57	3.50	3.40	3.38
3361	Aluminum castings .....	-	140.40	137.63	139.78	141.51	-	3.60	3.52	3.46	3.46
3362,9	Other nonferrous castings .....	-	137.67	138.55	138.94	138.93	-	3.53	3.49	3.34	3.30
339	Miscellaneous primary metal products ..	(*)	165.82	165.53	170.87	171.70	(*)	4.23	4.18	4.03	4.04
3391	Iron and steel forgings .....	-	171.11	170.56	176.82	180.19	-	4.41	4.34	4.19	4.22
34	<b>FABRICATED METAL PRODUCTS</b> .....	145.44	145.08	144.89	141.36	143.14	3.60	3.60	3.56	3.39	3.40
341	Metal cans .....	(*)	173.69	175.24	160.36	173.16	(*)	4.03	4.01	3.80	3.90
342	Cutlery, hand tools, and hardware .....	134.80	133.23	135.54	133.49	133.31	3.43	3.39	3.38	3.24	3.22
3421,3,5	Cutlery and hand tools, incl. saws .....	-	130.35	127.73	132.39	130.10	-	3.30	3.25	3.19	3.15
3429	Hardware, n e c .....	-	135.63	140.48	134.07	135.38	-	3.46	3.46	3.27	3.27
343	Plumbing and heating, except electric ..	132.60	130.87	132.40	130.06	127.58	3.34	3.33	3.31	3.18	3.15
3431,2	Sanitary ware & plumbers' brass goods ..	-	132.44	129.75	129.85	128.56	-	3.37	3.31	3.23	3.19
3433	Heating equipment, except electric .....	-	128.97	133.98	130.21	126.17	-	3.29	3.30	3.13	3.10
344	Fabricated structural metal products .....	145.84	143.20	144.18	141.10	140.61	3.61	3.58	3.56	3.40	3.38
3441	Fabricated structural steel .....	-	148.78	147.50	141.52	142.38	-	3.62	3.58	3.41	3.39
3442	Metal doors, sash, and trim .....	-	118.04	118.56	116.91	116.11	-	3.05	3.04	2.93	2.91
3443	Fabricated plate work (boiler shops) ..	-	153.44	152.93	152.70	151.79	-	3.77	3.73	3.61	3.58
3444	Sheet metal work .....	-	147.41	150.05	147.44	146.97	-	3.77	3.77	3.57	3.55
3446,9	Architectural and misc. metal work .....	-	134.41	138.51	135.66	134.46	-	3.42	3.42	3.23	3.24
345	Screw machine products, bolts, etc. ....	(*)	141.95	143.62	148.26	148.77	(*)	3.54	3.52	3.44	3.42
3451	Screw machine products .....	-	138.90	141.51	141.28	141.10	-	3.49	3.46	3.34	3.32
3452	Bolts, nuts, rivets, and washers .....	-	144.63	145.71	154.53	156.20	-	3.58	3.58	3.52	3.51
346	Metal stampings .....	(*)	166.78	162.21	157.87	161.32	(*)	3.99	3.89	3.68	3.70
347	Metal services, n e c .....	(*)	122.22	123.09	119.20	121.60	(*)	3.15	3.14	3.01	3.01
348	Misc. fabricated wire products .....	(*)	126.62	128.16	125.56	126.59	(*)	3.23	3.22	3.07	3.08
349	Misc. fabricated metal products .....	140.85	140.75	140.30	136.95	137.61	3.53	3.51	3.49	3.30	3.30
3494,8	Valves, pipe, and pipe fittings .....	-	143.92	142.36	140.37	139.53	-	3.58	3.55	3.35	3.33
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> .....	153.56	152.00	152.31	155.61	155.00	3.82	3.80	3.77	3.67	3.63
351	Engines and turbines .....	161.28	162.99	168.02	160.74	161.90	4.20	4.19	4.19	3.93	3.92
3511	Steam engines and turbines .....	-	182.96	176.99	168.38	170.40	-	4.43	4.37	3.99	4.00
3519	Internal combustion engines, n e c .....	-	156.59	163.99	157.17	158.30	-	4.11	4.11	3.90	3.88
352	Farm machinery .....	-	147.36	146.59	147.83	144.59	-	3.74	3.73	3.65	3.57
353	Construction and related machinery .....	153.92	152.74	151.88	153.97	152.44	3.81	3.79	3.75	3.64	3.57
3531,2	Construction and mining machinery .....	-	158.75	157.92	156.79	155.24	-	3.91	3.88	3.76	3.67
3533	Oil field machinery .....	-	142.04	143.62	153.22	145.82	-	3.56	3.52	3.42	3.36
3535,6	Conveyors, hoists, cranes, monorails ..	-	149.95	148.67	154.94	155.81	-	3.73	3.68	3.62	3.59
3537	Industrial trucks and tractors .....	-	131.51	131.33	139.93	145.49	-	3.47	3.42	3.38	3.36
354	Metal working machinery .....	(*)	163.61	166.46	175.20	177.01	(*)	4.08	4.06	4.00	3.96
3541	Machine tools, metal cutting types .....	-	160.00	164.42	165.85	172.43	-	3.99	4.02	3.93	3.91
3544	Special dies, tools, jigs & fixtures .....	-	178.23	183.10	196.99	196.85	-	4.39	4.37	4.32	4.27
3545	Machine tool accessories .....	-	150.93	150.50	154.14	153.97	-	3.86	3.81	3.67	3.64
3542,8	Misc. metal working machinery .....	-	151.55	152.63	159.21	162.06	-	3.77	3.75	3.66	3.65
355	Special industry machinery .....	146.65	145.44	145.35	147.15	148.34	3.63	3.60	3.58	3.43	3.41
3551	Food products machinery .....	-	146.96	151.03	150.10	151.79	-	3.73	3.72	3.54	3.53
3552	Textile machinery .....	-	127.30	125.96	123.43	127.15	-	3.12	3.11	2.96	2.95
3555	Printing trades machinery .....	-	159.10	155.16	157.11	154.73	-	3.89	3.85	3.62	3.59
356	General industrial machinery .....	(*)	149.29	150.00	154.70	154.21	(*)	3.77	3.75	3.64	3.62
3561	Pumps and compressors .....	-	150.96	149.69	149.88	149.32	-	3.70	3.66	3.56	3.53
3562	Ball and roller bearings .....	-	147.45	148.61	157.99	159.47	-	3.87	3.86	3.70	3.70
3564	Blowers and fans .....	-	137.94	143.18	143.52	141.76	-	3.44	3.45	3.33	3.32
3566	Power transmission equipment .....	-	152.40	151.47	155.59	152.44	-	3.81	3.74	3.61	3.57
357	Office and computing machines .....	154.28	153.06	151.07	153.30	150.23	3.80	3.77	3.73	3.65	3.62
3573	Electronic computing equipment .....	-	157.35	154.88	151.26	151.62	-	3.81	3.75	3.61	3.61
358	Service industry machines .....	(*)	134.06	133.51	133.82	134.56	(*)	3.42	3.38	3.28	3.29
3585	Refrigeration machinery .....	-	134.21	134.70	134.31	135.46	-	3.45	3.41	3.30	3.32
359	Misc. machinery, except electrical .....	151.78	149.08	150.06	153.15	151.12	3.72	3.69	3.66	3.57	3.49

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1970 p	Sept. 1970 p	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 p	Sept. 1970 p	Aug. 1970	Oct. 1969	Sept. 1969
	<i>Durable Goods--Continued</i>										
33	<b>PRIMARY METAL INDUSTRIES</b> . . . . .	38.6	41.1	40.3	41.7	42.1	-	3.4	3.0	4.1	4.5
331	Blast furnace and basic steel products . . . . .	37.2	42.0	40.4	41.2	41.8	-	3.2	2.5	3.4	3.8
3312	Blast furnaces and steel mills . . . . .	-	42.1	40.3	41.0	41.6	-	-	-	-	-
332	Iron and steel foundries . . . . .	(*)	39.9	40.1	42.4	42.6	-	3.3	3.6	5.4	5.6
3321	Gray iron foundries . . . . .	-	39.8	39.7	42.7	42.7	-	-	-	-	-
3322	Malleable iron foundries . . . . .	-	39.1	40.5	40.9	41.5	-	-	-	-	-
3323	Steel foundries . . . . .	-	40.7	40.6	42.1	42.7	-	-	-	-	-
333,4	Nonferrous metals . . . . .	(*)	42.2	41.8	42.4	42.7	-	4.8	4.3	4.9	5.2
3334	Primary aluminum . . . . .	-	41.2	40.7	41.3	41.5	-	-	-	-	-
335	Nonferrous rolling and drawing . . . . .	(*)	41.1	40.7	42.2	42.7	-	3.4	3.4	4.5	4.9
3351	Copper rolling and drawing . . . . .	-	40.0	39.4	42.7	43.5	-	-	-	-	-
3352	Aluminum rolling and drawing . . . . .	-	41.0	40.9	42.8	42.3	-	-	-	-	-
3357	Nonferrous wire drawing and insulating . . . . .	-	42.1	41.2	41.5	42.8	-	-	-	-	-
336	Nonferrous foundries . . . . .	(*)	39.0	39.4	41.0	41.5	-	2.0	2.3	3.5	4.5
3361	Aluminum castings . . . . .	-	39.0	39.1	40.4	40.9	-	-	-	-	-
3362,9	Other nonferrous castings . . . . .	-	39.0	39.7	41.6	42.1	-	-	-	-	-
339	Miscellaneous primary metal products . . . . .	(*)	39.2	39.6	42.4	42.5	-	3.4	3.0	5.3	5.6
3391	Iron and steel forgings . . . . .	-	38.8	39.3	42.2	42.7	-	-	-	-	-
34	<b>FABRICATED METAL PRODUCTS</b> . . . . .	40.4	40.3	40.7	41.7	42.1	-	3.4	3.4	4.3	4.7
341	Metal cans . . . . .	(*)	43.1	43.7	42.2	44.4	-	4.9	5.0	3.5	6.1
342	Cutlery, hand tools, and hardware . . . . .	39.3	39.3	40.1	41.2	41.4	-	2.5	2.5	3.3	3.5
3421,3,5	Cutlery and hand tools, incl. saws . . . . .	-	39.5	37.3	41.5	41.3	-	-	-	-	-
3429	Hardware, n e c . . . . .	-	39.2	40.6	41.0	41.4	-	-	-	-	-
343	Plumbing and heating, except electric . . . . .	39.7	39.3	40.0	40.9	40.5	-	2.6	2.5	3.5	3.4
3431,2	Sanitary ware & plumbers' brass goods . . . . .	-	39.3	39.2	40.2	40.3	-	-	-	-	-
3433	Heating equipment, except electric . . . . .	-	39.2	40.6	41.6	40.7	-	-	-	-	-
344	Fabricated structural metal products . . . . .	40.4	40.0	40.5	41.5	41.6	-	3.0	3.2	4.2	4.3
3441	Fabricated structural steel . . . . .	-	41.1	41.2	41.5	42.0	-	-	-	-	-
3442	Metal doors, sash, and trim . . . . .	-	38.7	39.0	39.9	39.9	-	-	-	-	-
3443	Fabricated plate work (boiler shops) . . . . .	-	40.7	41.0	42.3	42.4	-	-	-	-	-
3444	Sheet metal work . . . . .	-	39.1	39.8	41.3	41.4	-	-	-	-	-
3446,9	Architectural and misc. metal work . . . . .	-	39.3	40.5	42.0	41.5	-	-	-	-	-
345	Screw machine products, bolts, etc. . . . .	(*)	40.1	40.8	43.1	43.5	-	2.9	3.4	5.8	5.9
3451	Screw machine products . . . . .	-	39.8	40.9	42.3	42.5	-	-	-	-	-
3452	Bolts, nuts, rivets, and washers . . . . .	-	40.4	40.7	43.9	44.5	-	-	-	-	-
346	Metal stampings . . . . .	(*)	41.8	41.7	42.9	43.6	-	5.0	4.5	5.2	6.0
347	Metal services, n e c . . . . .	(*)	38.8	39.2	39.6	40.4	-	3.6	3.0	4.5	4.4
348	Misc. fabricated wire products . . . . .	(*)	39.2	39.8	40.9	41.1	-	2.6	2.7	4.0	4.1
349	Misc. fabricated metal products . . . . .	39.9	40.1	40.2	41.5	41.7	-	2.7	2.9	3.7	3.9
3494,8	Valves, pipe, and pipe fittings . . . . .	-	40.2	40.1	41.9	41.9	-	-	-	-	-
35	<b>MACHINERY, EXCEPT ELECTRICAL</b> . . . . .	40.2	40.0	40.4	42.4	42.7	-	2.5	2.7	4.6	4.8
351	Engines and turbines . . . . .	38.4	38.9	40.1	40.9	41.3	-	2.7	3.2	4.4	4.9
3511	Steam engines and turbines . . . . .	-	41.3	40.5	42.2	42.6	-	-	-	-	-
3519	Internal combustion engines, n e c . . . . .	-	38.1	39.9	40.3	40.8	-	-	-	-	-
352	Farm machinery . . . . .	-	39.4	39.3	40.5	40.5	-	2.1	2.1	2.9	2.8
353	Construction and related machinery . . . . .	40.4	40.3	40.5	42.3	42.7	-	2.8	2.6	4.1	4.5
3531,2	Construction and mining machinery . . . . .	-	40.6	40.7	41.7	42.3	-	-	-	-	-
3533	Oil field machinery . . . . .	-	39.9	40.8	41.8	43.4	-	-	-	-	-
3535,6	Conveyors, hoists, cranes, monorails . . . . .	-	40.2	40.4	42.8	43.4	-	-	-	-	-
3537	Industrial trucks and tractors . . . . .	-	37.9	38.4	41.4	43.3	-	-	-	-	-
354	Metal working machinery . . . . .	(*)	40.1	41.0	43.8	44.7	-	2.7	3.1	5.9	6.3
3541	Machine tools, metal cutting types . . . . .	-	40.1	40.9	42.2	44.1	-	-	-	-	-
3544	Special dies, tools, jigs, & fixtures . . . . .	-	40.6	41.9	45.6	46.1	-	-	-	-	-
3545	Machine tool accessories . . . . .	-	39.1	39.5	42.0	42.3	-	-	-	-	-
3542,8	Misc. metal working machinery . . . . .	-	40.2	40.7	43.5	44.4	-	-	-	-	-
355	Special industry machinery . . . . .	40.4	40.4	40.6	42.9	43.5	-	2.6	2.8	4.8	5.3
3551	Food products machinery . . . . .	-	39.4	40.6	42.4	43.0	-	-	-	-	-
3552	Textile machinery . . . . .	-	40.8	40.5	41.7	43.1	-	-	-	-	-
3555	Printing trades machinery . . . . .	-	40.9	40.3	43.4	43.1	-	-	-	-	-
356	General industrial machinery . . . . .	(*)	39.6	40.0	42.5	42.6	-	2.4	2.3	4.6	4.7
3561	Pumps and compressors . . . . .	-	40.8	40.9	42.1	42.3	-	-	-	-	-
3562	Ball and roller bearings . . . . .	-	38.1	38.5	42.7	43.1	-	-	-	-	-
3564	Blowers and fans . . . . .	-	40.1	41.5	43.1	42.7	-	-	-	-	-
3566	Power transmission equipment . . . . .	-	40.0	40.5	43.1	42.7	-	-	-	-	-
357	Office and computing machines . . . . .	40.6	40.6	40.5	42.0	41.5	-	1.7	1.7	3.2	3.7
3573	Electronic computing equipment . . . . .	-	41.3	41.3	41.9	42.0	-	-	-	-	-
358	Service industry machines . . . . .	(*)	39.2	39.5	40.8	40.9	-	1.3	2.2	2.9	3.1
3585	Refrigeration machinery . . . . .	-	38.9	39.5	40.7	40.8	-	-	-	-	-
359	Misc. machinery, except electrical . . . . .	40.8	40.4	41.0	42.9	43.3	-	3.2	3.5	5.5	5.9

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**

SIC code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1970 <sup>P</sup>	Oct. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969
<i>Durable Goods--Continued</i>											
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES...</b>	\$132.40	\$131.93	\$131.74	\$126.45	\$127.39	\$3.31	\$ 3.34	\$ 3.31	\$ 3.13	\$ 3.13
361	Electric test & distributing equipment ...	(*)	139.40	138.92	134.55	134.69	(*)	3.48	3.43	3.25	3.23
3611	Electric measuring instruments .....	-	120.96	121.68	119.90	120.88	-	3.15	3.12	2.99	2.97
3612	Transformers .....	-	138.17	139.94	137.94	137.97	-	3.42	3.43	3.30	3.27
3613	Switchgear and switchboard apparatus...	-	151.05	150.33	142.80	143.56	-	3.73	3.64	3.40	3.41
362	Electrical industrial apparatus .....	(*)	136.12	137.43	133.81	134.78	(*)	3.42	3.42	3.24	3.24
3621	Motors and generators .....	-	139.49	141.54	135.79	137.34	-	3.47	3.48	3.25	3.27
3622	Industrial controls .....	-	132.38	132.26	130.96	130.33	-	3.36	3.34	3.18	3.18
363	Household appliances .....	(*)	134.75	136.86	132.84	134.56	(*)	3.42	3.43	3.28	3.29
3632	Household refrigerators and freezers ...	-	(*)	149.14	145.44	149.51	-	(*)	3.71	3.60	3.62
3633	Household laundry equipment .....	-	142.66	150.63	140.88	137.76	-	3.63	3.71	3.47	3.47
3634	Electric housewares and fans .....	-	110.97	113.15	110.70	112.75	-	2.86	2.85	2.72	2.73
364	Electric lighting and wiring equipment ...	126.17	123.72	122.62	114.40	119.29	3.17	3.14	3.12	2.96	2.96
3641	Electric lamps .....	-	130.97	130.56	120.08	117.51	-	3.21	3.20	3.04	2.96
3642	Lighting fixtures .....	-	124.90	122.46	120.50	121.90	-	3.17	3.14	3.02	3.04
3643,4	Wiring devices .....	-	118.20	117.34	116.76	118.03	-	3.07	3.04	2.89	2.90
365	Radio and TV receiving equipment .....	120.80	119.69	118.59	104.18	104.23	3.02	3.03	3.01	2.72	2.75
366	Communication equipment .....	(*)	143.27	145.46	146.91	144.33	(*)	3.67	3.61	3.54	3.54
3661	Telephone and telegraph apparatus .....	-	146.73	140.65	152.08	157.11	-	3.57	3.49	3.57	3.62
3662	Radio and TV communication equipment ...	-	150.42	149.92	143.62	143.09	-	3.77	3.72	3.52	3.49
367	Electronic components and accessories ..	(*)	144.26	143.30	136.11	137.32	(*)	2.96	2.92	2.70	2.71
3671-3	Electron tubes .....	-	131.06	132.59	120.30	119.50	-	3.36	3.29	3.00	2.98
3674,9	Other electronic components .....	-	109.54	109.34	103.49	104.68	-	2.86	2.84	2.64	2.65
369	Misc. electrical equipment & supplies....	(*)	134.40	138.60	135.94	137.27	(*)	3.50	3.50	3.34	3.34
3694	Engine electrical equipment .....	-	134.67	141.18	136.72	140.65	-	3.63	3.62	3.47	3.49
37	<b>TRANSPORTATION EQUIPMENT .....</b>	163.21	167.26	164.40	165.51	166.66	4.02	4.14	4.11	3.95	3.94
371	Motor vehicles and equipment .....	(*)	175.03	170.34	173.85	178.02	(*)	4.29	4.28	4.11	4.14
3711	Motor vehicles .....	-	182.10	163.34	1 1.90	186.19	-	4.42	4.43	4.26	4.29
3712	Passenger car bodies .....	-	219.53	208.69	186.19	189.23	-	5.07	5.27	4.33	4.35
3713	Truck and bus bodies .....	-	138.20	138.75	141.11	137.90	-	3.49	3.50	3.45	3.38
3714	Motor vehicle parts and accessories ...	-	169.26	174.29	171.35	176.32	-	4.20	4.22	4.07	4.11
3715	Truck trailers .....	-	123.59	122.58	124.22	126.27	-	3.34	3.28	3.11	3.11
372	Aircraft and parts .....	(*)	170.53	169.73	165.48	162.96	(*)	4.19	4.16	3.94	3.88
3721	Aircraft .....	-	175.51	172.60	167.56	163.38	-	4.26	4.22	3.98	3.89
3722	Aircraft engines and engine parts .....	-	164.34	167.26	163.12	163.86	-	4.15	4.14	3.94	3.92
3723,9	Other aircraft parts and equipment .....	-	165.24	164.33	164.40	160.74	-	4.06	4.04	3.85	3.80
373	Ship and boat building and repairing .....	152.43	152.08	150.53	152.40	151.94	3.83	3.85	3.84	3.69	3.67
3731	Ship building and repairing .....	-	160.00	178.00	163.10	161.48	-	4.01	3.99	3.93	3.91
3732	Boat building and repairing .....	-	118.31	118.76	118.15	120.35	-	3.13	3.15	2.91	2.90
374	Railroad equipment & parts .....	-	161.87	164.30	161.90	161.85	-	4.14	4.17	3.92	3.90
375,9	Other transportation equipment .....	-	121.83	122.53	113.21	119.13	-	3.14	3.11	2.97	2.95
38	<b>INSTRUMENTS AND RELATED PRODUCTS ..</b>	137.48	134.30	133.73	131.29	131.43	3.42	3.40	3.36	3.21	3.19
381	Engineering & scientific instruments ...	-	148.60	150.44	149.34	151.50	-	3.88	3.78	3.59	3.59
382	Mechanical measuring & control devices..	(*)	128.10	129.03	129.11	130.06	(*)	3.31	3.30	3.18	3.18
3821	Mechanical measuring devices .....	-	133.33	132.20	132.02	132.75	-	3.35	3.33	3.22	3.23
3822	Automatic temperature controls .....	-	121.27	124.53	125.11	125.96	-	3.26	3.26	3.12	3.11
383,5	Optical and ophthalmic goods .....	123.09	123.64	121.18	122.31	122.51	3.14	3.13	3.06	3.02	3.01
385	Ophthalmic goods .....	-	116.13	112.97	110.60	111.20	-	2.94	2.86	2.80	2.78
384	Medical instruments and supplies .....	-	116.03	111.36	112.28	111.91	2.98	2.96	2.90	2.80	2.77
386	Photographic equipment and supplies .....	(*)	169.33	166.87	161.41	160.76	(*)	4.09	4.04	3.78	3.73
387	Watches, clocks, and watchcases .....	-	107.53	112.68	102.57	102.31	-	2.75	2.81	2.61	2.59
39	<b>MISC. MANUFACTURING INDUSTRIES .....</b>	110.76	109.06	108.55	105.72	105.06	2.84	2.84	2.82	2.69	2.68
391	Jewelry, silverware, and plated ware....	124.26	119.51	117.25	119.88	116.91	3.13	3.12	3.11	2.96	2.93
394	Toys and sporting goods .....	-	99.44	94.81	92.73	92.11	-	2.61	2.58	2.39	2.38
3941-3	Games, toys, dolls & play vehicles .....	-	93.75	96.00	86.94	87.71	-	2.50	2.50	2.27	2.29
3949	Spotting and athletic goods, n e c .....	-	108.03	103.90	101.52	99.18	-	2.77	2.72	2.57	2.53
395	Pens, pencils, office and art supplies....	-	1 2.32	114.26	104.66	105.34	-	2.88	2.90	2.67	2.66
396	Costume jewelry and notions .....	-	97.78	97.54	94.11	94.46	-	2.53	2.56	2.47	2.46
393,9	Other manufacturing industries .....	119.34	117.65	118.08	118.00	117.01	3.06	3.04	3.02	2.95	2.94
393	Musical instruments and parts .....	-	117.51	116.03	112.97	115.37	-	2.99	2.96	2.85	2.87
<i>Nondurable Goods</i>											
20	<b>FOOD AND KINDRED PRODUCTS .....</b>	130.15	131.29	128.96	121.29	124.15	3.19	3.21	3.13	2.98	2.97
201	Meat products .....	140.83	142.42	138.77	133.34	134.62	3.41	3.44	3.36	3.19	3.19
2011	Meat packing plants .....	-	175.01	168.86	160.55	160.93	-	4.11	4.03	3.76	3.76
2013	Sausages and other prepared meats .....	-	154.44	152.26	144.73	145.67	-	3.67	3.66	3.53	3.51
2015	Poultry dressing plants .....	-	86.41	87.67	85.27	86.74	-	2.21	2.17	2.09	2.09

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969
<i>Durable Goods--Continued</i>											
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES .</b>	40.0	39.5	39.8	40.4	40.7	-	2.1	2.2	2.9	3.1
361	Electric test & distributing equipment . . . . .	(*)	40.2	40.5	41.4	41.7	-	2.6	2.6	3.4	3.7
3611	Electric measuring instruments . . . . .	-	38.4	39.0	40.1	40.7	-	-	-	-	-
3612	Transformers . . . . .	-	40.4	40.8	41.8	42.2	-	-	-	-	-
3613	Switchgear and switchboard apparatus . . . . .	-	41.3	41.3	42.0	42.1	-	-	-	-	-
362	<b>Electrical industrial apparatus . . . . .</b>	(*)	39.8	40.3	41.3	41.6	-	2.2	2.5	4.0	4.1
3621	Motors and generators . . . . .	-	40.2	40.7	41.4	42.0	-	-	-	-	-
3622	Industrial controls . . . . .	-	39.4	39.6	40.9	41.0	-	-	-	-	-
363	<b>Household appliances . . . . .</b>	(*)	39.4	39.9	40.5	40.9	-	2.1	2.7	3.0	3.5
3632	Household refrigerators and freezers . . . . .	-	(*)	40.2	40.4	41.3	-	-	-	-	-
3633	Household laundry equipment . . . . .	-	39.3	40.6	40.6	39.7	-	-	-	-	-
3634	Electric housewares and fans . . . . .	-	38.8	39.7	40.7	41.3	-	-	-	-	-
364	<b>Electric lighting and wiring equipment . . . . .</b>	39.8	39.4	39.3	40.0	40.3	-	2.2	2.1	3.0	3.0
3641	Electric lamps . . . . .	-	40.8	40.8	39.5	39.7	-	-	-	-	-
3642	Lighting fixtures . . . . .	-	39.4	39.0	39.9	40.1	-	-	-	-	-
3643,4	Wiring devices . . . . .	-	38.5	38.6	40.4	40.7	-	-	-	-	-
365	<b>Radio and TV receiving equipment . . . . .</b>	40.0	39.5	39.4	38.3	37.9	-	2.1	2.1	1.5	1.9
366	<b>Communication equipment . . . . .</b>	(*)	40.4	40.3	41.5	41.9	-	2.4	2.3	3.0	3.5
3661	Telephone and telegraph apparatus . . . . .	-	41.1	40.3	42.6	43.4	-	-	-	-	-
3662	Radio and TV communication equipment . . . . .	-	39.9	40.3	40.8	41.0	-	-	-	-	-
367	<b>Electronic components and accessories . . . . .</b>	(*)	38.6	38.8	39.3	39.6	-	1.4	1.7	2.2	2.4
3671-3	Electron tubes . . . . .	-	39.9	40.3	40.1	40.1	-	-	-	-	-
3674,9	Other electronic components . . . . .	-	38.3	38.5	39.2	39.5	-	-	-	-	-
369	<b>Misc. electrical equipment &amp; supplies . . . . .</b>	(*)	38.4	39.6	40.7	41.1	-	2.3	2.1	3.1	3.1
3694	Engine electrical equipment . . . . .	-	37.1	39.0	39.4	40.3	-	-	-	-	-
37	<b>TRANSPORTATION EQUIPMENT . . . . .</b>	40.6	40.4	40.0	41.9	42.3	-	3.9	3.1	4.1	4.3
371	<b>Motor vehicles and equipment . . . . .</b>	(*)	40.8	39.8	42.3	43.0	-	4.8	3.6	4.5	5.0
3711	Motor vehicles . . . . .	-	41.2	38.7	42.7	43.4	-	-	-	-	-
3712	Passenger car bodies . . . . .	-	43.3	39.6	43.0	43.5	-	-	-	-	-
3713	Truck and bus bodies . . . . .	-	39.6	39.7	40.9	40.8	-	-	-	-	-
3714	Motor vehicle parts and accessories . . . . .	-	40.3	41.3	42.1	42.9	-	-	-	-	-
3715	Truck trailers . . . . .	-	38.5	39.2	39.3	40.6	-	-	-	-	-
372	<b>Aircraft and parts . . . . .</b>	(*)	40.7	40.8	42.0	42.0	-	2.8	2.5	3.6	3.6
3721	Aircraft . . . . .	-	41.2	40.9	42.1	42.0	-	-	-	-	-
3722	Aircraft engines and engine parts . . . . .	-	39.6	40.4	41.4	41.8	-	-	-	-	-
3723,9	Other aircraft parts and equipment . . . . .	-	40.7	40.8	42.7	42.3	-	-	-	-	-
373	<b>Ship and boat building and repairing . . . . .</b>	39.8	39.5	39.2	41.3	41.4	-	3.0	2.9	4.1	4.3
3731	Ship building and repairing . . . . .	-	39.9	39.6	41.5	41.3	-	-	-	-	-
3732	Boat building and repairing . . . . .	-	37.8	37.7	40.6	41.5	-	-	-	-	-
374	<b>Railroad equipment ** . . . . .</b>	-	39.1	39.4	41.3	41.5	-	2.9	2.8	3.7	4.3
375,9	Other transportation equipment . . . . .	-	38.8	39.4	39.8	40.4	-	2.6	2.6	2.9	3.0
38	<b>INSTRUMENTS AND RELATED PRODUCTS . . . . .</b>	40.2	39.5	39.8	40.9	41.2	-	1.9	2.1	3.2	3.4
381	Engineering & scientific instruments . . . . .	-	38.3	39.8	41.6	42.2	-	1.2	2.3	3.9	4.1
382	<b>Mechanical measuring &amp; control devices . . . . .</b>	(*)	38.7	39.1	40.6	40.9	-	2.1	2.0	3.3	3.5
3821	Mechanical measuring devices . . . . .	-	39.8	39.7	41.0	41.1	-	-	-	-	-
3822	Automatic temperature controls . . . . .	-	37.2	38.2	40.1	40.5	-	-	-	-	-
383,5	<b>Optical and ophthalmic goods . . . . .</b>	39.2	39.5	39.6	40.5	40.7	-	1.8	1.8	3.0	3.0
385	Ophthalmic goods . . . . .	-	39.5	39.5	39.5	40.0	-	2.0	1.9	2.3	2.5
384	<b>Medical instruments and supplies . . . . .</b>	39.9	39.2	38.4	40.1	40.4	-	2.0	1.8	2.5	2.8
386	Photographic equipment and supplies . . . . .	(*)	41.4	41.8	42.7	43.1	-	2.3	2.8	3.9	4.2
387	Watches, clocks, and watch cases . . . . .	-	39.1	40.1	39.3	39.5	-	1.7	1.8	2.3	2.3
39	<b>MISC. MANUFACTURING INDUSTRIES . . . . .</b>	39.0	38.4	38.6	39.3	39.2	-	2.1	2.1	2.9	2.9
391	Jewelry, silverware, and plated ware . . . . .	39.7	38.4	37.7	40.5	39.9	-	1.9	1.8	3.5	3.4
394	<b>Toys and sporting goods . . . . .</b>	-	38.1	38.3	38.8	38.7	-	2.3	2.1	2.7	2.7
3941-3	Games, toys, dolls, & play vehicles . . . . .	-	37.5	38.4	38.3	38.3	-	-	-	-	-
3949	Sporting and athletic goods, nec. . . . .	-	39.0	38.2	39.5	39.2	-	-	-	-	-
395	<b>Pens, pencils, office and art supplies . . . . .</b>	-	39.0	39.4	39.2	39.6	-	1.5	1.7	2.3	2.5
396	Costume jewelry and notions . . . . .	-	37.9	38.1	38.1	38.4	-	1.7	2.0	2.9	2.5
393,9	<b>Other manufacturing industries . . . . .</b>	39.0	38.7	39.1	40.0	39.8	-	2.3	2.2	3.1	3.2
393	Musical instruments and parts . . . . .	-	39.3	39.2	39.5	40.2	-	2.3	1.9	2.2	2.6
<i>Nondurable Goods</i>											
20	<b>FOOD AND KINDRED PRODUCTS . . . . .</b>	40.8	40.9	41.2	40.7	41.8	-	4.4	4.3	4.3	5.0
201	Meat products . . . . .	41.3	41.4	41.3	41.8	42.2	-	4.8	4.7	5.1	5.8
2011	Meat packing plants . . . . .	-	42.8	41.9	42.7	42.8	-	-	-	-	-
2013	Sausages and other prepared meats . . . . .	-	42.0	41.6	41.0	41.5	-	-	-	-	-
2015	Poultry dressing plants . . . . .	-	39.1	40.4	40.8	41.5	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969
	<i>Nondurable Goods--Continued</i>										
	<b>FOOD AND KINDRED PRODUCTS--Continued</b>										
202	Dairy products .....	(*)	\$142.38	\$136.27	\$127.93	\$129.58	(*)	\$3.35	\$3.26	\$3.09	\$3.10
2024	Ice cream and frozen desserts .....	-	130.33	129.58	117.12	122.51	-	3.21	3.10	2.95	3.01
2026	Fluid milk .....	-	152.42	143.72	135.11	137.99	-	3.52	3.43	3.24	3.27
203	Canned, cured, and frozen foods .....	-	107.05	107.57	96.72	106.68	-	2.71	2.63	2.48	2.54
2031,6	Canned, cured, and frozen sea foods .....	-	(*)	88.81	84.98	82.14	-	(*)	2.42	2.26	2.22
2032,3	Canned food, except sea foods .....	-	115.92	113.67	99.06	114.76	-	2.80	2.70	2.54	2.62
2037	Frozen fruits and vegetables .....	-	93.38	96.53	95.60	96.63	-	2.49	2.45	2.39	2.38
204	Grain mill products .....	\$148.85	151.30	149.44	139.73	144.75	\$3.33	3.34	3.27	3.14	3.14
2041	Flour and other grain mill products .....	-	169.18	162.37	152.89	153.08	-	3.51	3.44	3.26	3.25
2042	Prepared feeds for animals and fowls .....	-	131.37	131.88	122.75	129.53	-	2.90	2.83	2.74	2.75
205	Bakery products .....	129.42	132.26	129.03	123.11	122.61	3.31	3.34	3.25	3.07	3.05
2051	Bread, cake, and related products .....	-	135.60	131.41	123.78	124.31	-	3.39	3.31	3.11	3.10
2052	Cookies and crackers .....	-	120.65	121.97	118.69	115.59	-	3.15	3.08	2.86	2.84
206	Sugar .....	-	142.76	141.28	117.45	133.49	-	3.44	3.38	2.90	3.24
207	Confectionery and related products .....	109.18	110.26	112.40	102.31	104.40	2.75	2.82	2.81	2.61	2.61
2071	Confectionery products .....	-	106.70	108.50	98.16	99.94	-	2.75	2.74	2.53	2.53
208	Beverages .....	148.08	150.29	149.69	136.76	139.20	3.73	3.72	3.66	3.48	3.48
2082	Malt liquors .....	-	195.36	195.09	181.80	188.00	-	4.80	4.77	4.50	4.53
2086	Bottled and canned soft drinks .....	-	113.77	116.48	101.11	105.21	-	2.83	2.80	2.64	2.65
209	Misc. foods and kindred products .....	131.14	129.78	128.54	122.47	122.01	3.16	3.15	3.12	2.93	2.94
21	<b>TOBACCO MANUFACTURES</b> .....	115.09	109.91	104.81	96.11	97.89	2.87	2.90	2.78	2.49	2.51
211	Cigarettes .....	-	141.21	130.07	117.33	126.01	-	3.63	3.45	3.25	3.29
212	Cigars .....	-	81.33	81.55	81.09	79.25	-	2.21	2.21	2.09	2.08
22	<b>TEXTILE MILL PRODUCTS</b> .....	99.85	96.43	97.60	98.57	98.81	2.49	2.46	2.44	2.41	2.41
221	Weaving mills, cotton .....	(*)	97.04	98.81	100.67	100.19	(*)	2.42	2.41	2.42	2.42
222	Weaving mills, synthetics .....	(*)	99.50	100.53	104.23	105.22	(*)	2.50	2.47	2.47	2.47
223	Weaving and finishing mills, wool .....	98.68	98.69	97.39	101.76	101.11	2.59	2.55	2.51	2.47	2.46
224	Narrow fabric mills .....	(*)	94.24	95.89	98.16	97.34	(*)	2.48	2.44	2.40	2.38
225	Knitting mills .....	(*)	87.60	90.44	87.94	88.17	(*)	2.40	2.38	2.29	2.29
2251	Women's hosiery, except socks .....	-	81.77	85.18	86.56	87.46	-	2.37	2.34	2.26	2.26
2252	Hosiery, n e c .....	-	75.95	80.84	80.60	77.54	-	2.17	2.15	2.11	2.09
2253	Knit outerwear mills .....	-	91.98	94.74	89.28	89.28	-	2.52	2.48	2.40	2.40
2254	Knit underwear mills .....	-	81.33	82.06	78.60	79.24	-	2.21	2.20	2.13	2.13
226	Textile finishing, except wool .....	(*)	104.90	104.60	107.94	108.29	(*)	2.59	2.57	2.57	2.56
227	Floor covering mills .....	-	109.31	111.20	111.25	109.86	-	2.56	2.58	2.50	2.48
228	Yarn and thread mills .....	(*)	89.60	89.67	91.58	91.76	(*)	2.28	2.27	2.25	2.26
229	Miscellaneous textile goods .....	(*)	109.75	110.98	111.41	111.78	(*)	2.73	2.72	2.64	2.63
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b> .....	84.81	83.69	85.56	83.77	83.77	2.43	2.44	2.41	2.34	2.34
231	Men's and boys' suits and coats .....	97.61	98.07	101.82	104.80	104.99	2.94	2.99	2.96	2.84	2.83
232	Men's and boys' furnishings .....	(*)	76.25	76.91	75.65	74.70	(*)	2.13	2.09	2.05	2.03
2321	Men's and boys' shirts and nightwear .....	-	75.75	75.03	76.15	74.00	-	2.11	2.05	2.02	2.00
2327	Men's and boys' separate trousers .....	-	74.91	77.17	73.80	73.89	-	2.11	2.08	2.05	2.03
2328	Men's and boys' work clothing .....	-	72.37	73.37	72.30	71.57	-	2.05	2.01	1.97	1.95
233	Women's and misses' outerwear .....	85.67	83.42	86.84	83.58	83.50	2.62	2.64	2.60	2.51	2.50
2331	Women's and misses' blouses and waists .....	-	75.52	79.09	76.91	74.68	-	2.39	2.34	2.21	2.19
2335	Women's and misses' dresses .....	-	84.08	87.37	84.30	83.98	-	2.73	2.68	2.61	2.60
2337	Women's and misses' suits and coats .....	-	94.55	99.06	91.79	94.58	-	3.05	3.02	2.79	2.79
2339	Women's and misses' outerwear, n e c .....	-	75.26	77.75	76.30	77.17	-	2.22	2.19	2.18	2.18
234	Women's and children's undergarments .....	81.40	79.70	80.81	78.32	77.96	2.23	2.22	2.19	2.14	2.13
2341	Women's and children's underwear .....	-	77.76	79.18	77.12	76.75	-	2.16	2.14	2.09	2.08
2342	Corsets and allied garments .....	-	84.14	84.68	81.13	81.49	-	2.37	2.32	2.26	2.27
235	Hats, caps, and millinery .....	-	81.17	82.26	76.52	76.78	-	2.28	2.26	2.18	2.20
236	Children's outerwear .....	78.89	78.43	79.10	75.11	75.04	2.28	2.30	2.26	2.14	2.15
2361	Children's dresses and blouses .....	-	72.41	72.25	74.12	72.67	-	2.27	2.23	2.13	2.15
237,8	Fur goods and miscellaneous apparel .....	-	91.65	91.13	89.53	88.20	-	2.56	2.49	2.48	2.45
239	Misc. fabricated textile products .....	(*)	93.73	95.26	92.79	95.20	(*)	2.54	2.52	2.41	2.46
2391,2	Housefurnishings .....	-	82.13	82.03	81.90	80.85	-	2.19	2.17	2.10	2.10
26	<b>PAPER AND ALLIED PRODUCTS</b> .....	147.49	147.55	146.23	142.66	143.32	3.52	3.53	3.49	3.31	3.31
261,2,6	Paper and pulp mills .....	(*)	173.01	168.73	164.42	164.05	(*)	3.95	3.87	3.67	3.67
263	Paperboard mills .....	(*)	181.20	174.05	164.65	168.35	(*)	4.00	3.92	3.70	3.70
264	Misc. converted paper products .....	(*)	125.69	126.14	124.09	124.56	(*)	3.15	3.13	2.99	2.98
2643	Bags, except textile bags .....	-	124.22	122.71	118.69	117.16	-	3.09	3.06	2.86	2.83
265	Paperboard containers and boxes .....	(*)	129.44	130.33	129.25	129.86	(*)	3.22	3.21	3.07	3.07
2651,2	Folding and setup paperboard boxes .....	-	117.30	118.11	116.85	116.44	-	3.00	2.99	2.85	2.84
2653	Corrugated and solid fiber boxes .....	-	138.99	141.10	140.73	141.26	-	3.39	3.40	3.25	3.24
2654	Sanitary food containers .....	-	129.47	128.11	124.27	123.97	-	3.15	3.14	2.98	2.98

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>  
an private nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969
	<i>Nondurable Goods--Continued</i>										
	<b>FOOD AND KINDRED PRODUCTS--Continued</b>										
202	Dairy products .....	(*)	42.5	41.8	41.4	41.8	-	4.6	4.1	4.0	4.2
2024	Ice cream and frozen desserts .....	-	40.6	41.8	39.7	40.7	-	-	-	-	-
2026	Fluid milk .....	-	43.3	41.9	41.7	42.2	-	-	-	-	-
203	Canned, cured, and frozen foods .....	-	39.5	40.9	39.0	42.0	-	4.0	3.9	3.3	5.1
2031,6	Canned, cured and frozen sea foods .....	-	(*)	36.7	37.6	37.0	-	-	-	-	-
2032,3	Canned food, except sea foods .....	-	41.4	42.1	39.0	43.8	-	-	-	-	-
2037	Frozen fruits and vegetables .....	-	37.5	39.4	40.0	40.6	-	-	-	-	-
204	Grain mill products .....	44.7	45.3	45.7	44.5	46.1	-	7.3	7.2	7.0	8.0
2041	Flour and other grain mill product .....	-	48.2	47.2	46.9	47.1	-	-	-	-	-
2042	Prepared feeds for animals and fowls .....	-	45.3	46.6	44.8	47.1	-	-	-	-	-
205	Bakery products .....	39.1	39.6	39.7	40.1	40.2	-	3.7	3.5	4.3	4.1
2051	Bread, cake, and related products .....	-	40.0	39.7	39.8	40.1	-	-	-	-	-
2052	Cookies and crackers .....	-	38.3	39.6	41.5	40.7	-	-	-	-	-
206	Sugar .....	-	41.5	41.8	40.5	41.2	-	5.6	4.4	3.6	5.3
207	Confectionery and related products .....	39.7	39.1	40.0	39.2	40.0	-	2.6	2.6	2.8	3.0
2071	Confectionery products .....	-	38.8	39.6	38.8	39.5	-	-	-	-	-
208	Beverages .....	39.7	40.4	40.9	39.3	40.0	-	3.8	3.7	3.1	3.8
2082	Malt liquors .....	-	40.7	40.9	40.4	41.5	-	-	-	-	-
2086	Bottled and canned soft drinks .....	-	40.2	41.6	38.3	39.7	-	-	-	-	-
209	Misc. foods and kindred products .....	41.5	41.2	41.2	41.8	41.5	-	4.8	4.5	5.1	4.7
21	<b>TOBACCO MANUFACTURES</b> .....	40.1	37.9	37.7	38.6	39.0	-	2.3	1.8	1.6	1.9
211	Cigarettes .....	-	38.9	37.7	36.1	38.3	-	3.5	1.9	1.0	2.3
212	Cigars .....	-	36.8	36.9	38.8	38.1	-	1.3	1.1	1.8	1.2
22	<b>TEXTILE MILL PRODUCTS</b> .....	40.1	39.2	40.0	40.9	41.0	-	2.9	3.2	4.0	4.2
221	Weaving mills, cotton .....	(*)	40.1	41.0	41.6	41.4	-	3.2	3.9	4.6	4.5
222	Weaving mills, synthetics .....	(*)	39.8	40.7	42.2	42.6	-	3.2	3.0	4.5	4.9
223	Weaving and finishing mills, wool .....	38.1	38.7	38.8	41.2	41.1	-	2.5	2.3	3.7	3.7
224	Narrow fabric mills .....	(*)	38.0	39.3	40.9	40.9	-	1.7	2.4	3.7	3.5
225	Knitting mills .....	(*)	36.5	38.0	38.4	38.5	-	1.9	2.3	2.5	2.8
2251	Women's hosiery, except socks .....	-	34.5	36.4	38.3	38.7	-	-	-	-	-
2252	Hosiery, n e c .....	-	35.0	37.6	38.2	37.1	-	-	-	-	-
2253	Knit outerwear mills .....	-	36.5	38.2	37.2	37.2	-	-	-	-	-
2254	Knit underwear mills .....	-	36.8	37.3	36.9	37.2	-	-	-	-	-
226	Textile finishing, except wool .....	(*)	40.5	40.7	42.0	42.3	-	3.5	3.7	4.9	5.2
227	Floor covering mills .....	-	42.7	43.1	44.5	44.3	-	4.3	4.9	5.9	6.5
228	Yarn and thread mills .....	(*)	39.3	39.5	40.7	40.6	-	2.8	3.0	3.7	3.8
229	Miscellaneous textile goods .....	(*)	40.2	40.8	42.2	42.5	-	3.7	3.6	4.8	4.9
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b> .....	34.9	34.3	35.5	35.8	35.8	-	1.0	1.2	1.4	1.4
231	Men's and boys' suits and coats .....	33.2	32.8	34.4	36.9	37.1	-	.6	.5	1.4	1.3
232	Men's and boys' furnishings .....	(*)	35.8	36.8	36.9	36.8	-	1.0	1.3	1.3	1.2
2321	Men's and boys' shirts and nightwear .....	-	35.9	36.6	37.7	37.0	-	-	-	-	-
2327	Men's and boys' separate trousers .....	-	35.5	37.1	36.0	36.4	-	-	-	-	-
2328	Men's and boys' work clothing .....	-	35.3	36.5	36.7	36.7	-	-	-	-	-
233	Women's and misses' outerwear .....	32.7	31.6	33.4	33.3	33.4	-	.7	1.0	1.1	1.1
2331	Women's and misses' blouses and waists .....	-	31.6	33.8	34.8	34.1	-	-	-	-	-
2335	Women's and misses' dresses .....	-	30.8	32.6	32.3	32.3	-	-	-	-	-
2337	Women's and misses' suits and coats .....	-	31.0	32.8	32.9	33.9	-	-	-	-	-
2339	Women's and misses' outerwear, n e c .....	-	33.9	35.5	35.0	35.4	-	-	-	-	-
234	Women's and children's undergarments .....	36.5	35.9	36.9	36.6	36.6	-	1.3	1.4	1.5	1.5
2341	Women's and children's underwear .....	-	36.0	37.0	36.9	36.9	-	-	-	-	-
2342	Corsets and allied garments .....	-	35.5	36.5	35.9	35.9	-	-	-	-	-
235	Hats, caps, and millinery .....	-	35.6	36.4	35.1	34.9	-	.7	1.1	1.1	.9
236	Children's outerwear .....	34.6	34.1	35.0	35.1	34.9	-	1.1	1.5	1.3	1.0
2361	Children's dresses and blouses .....	-	31.9	32.4	34.8	33.8	-	-	-	-	-
237,8	Fur goods and miscellaneous apparel .....	-	35.8	36.6	36.1	36.0	-	1.0	1.3	1.5	1.3
239	Misc. fabricated textile products .....	(*)	36.9	37.8	38.5	38.7	-	1.8	2.0	2.2	2.6
2391,2	Housefurnishings .....	-	37.5	37.8	38.0	38.5	-	-	-	-	-
26	<b>PAPER AND ALLIED PRODUCTS</b> .....	41.9	41.8	41.9	43.1	43.3	-	4.8	4.7	5.7	5.8
261,2,6	Paper and pulp mills .....	(*)	43.8	43.6	44.8	44.7	-	6.2	5.9	6.8	6.7
263	Paperboard mills .....	(*)	45.3	44.4	44.5	45.5	-	8.0	7.0	7.6	8.0
264	Misc. converted paper products .....	(*)	39.9	40.3	41.5	41.8	-	3.2	3.3	4.2	4.3
2643	Bags, except textile bags .....	-	40.2	40.1	41.5	41.4	-	-	-	-	-
265	Paperboard containers and boxes .....	(*)	40.2	40.6	42.1	42.3	-	3.7	3.8	5.2	5.4
2651,2	Folding and setup paperboard boxes .....	-	39.1	39.5	41.0	41.0	-	-	-	-	-
2653	Corrugated and solid fiber boxes .....	-	41.0	41.5	43.3	43.6	-	-	-	-	-
2654	Sanitary food containers .....	-	41.1	40.8	41.7	41.6	-	-	-	-	-

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**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970	Oct. 1969	Sept. 1969
	<i>Nondurable Goods--Continued</i>										
27	<b>PRINTING AND PUBLISHING</b> .....	\$148.85	\$150.40	\$149.31	\$144.77	\$144.75	\$3.98	\$4.00	\$3.95	\$3.77	\$3.75
271	Newspapers.....	(*)	155.88	150.17	148.32	145.35	(*)	4.33	4.23	4.12	4.06
272	Periodicals.....	-	174.99	171.35	163.58	170.83	-	4.31	4.21	3.98	4.01
273	Books.....	-	136.08	139.44	133.00	137.27	-	3.60	3.53	3.35	3.34
275	Commercial printing.....	154.73	156.33	155.98	150.10	149.69	4.04	4.05	4.02	3.80	3.78
2751	Commercial printing, ex. lithographic.....	-	150.52	150.93	146.89	144.60	-	3.93	3.91	3.70	3.67
2752	Commercial printing, lithographic.....	-	165.82	164.64	154.84	157.99	-	4.23	4.20	3.94	3.93
278	Blankbooks and bookbinding.....	113.63	114.07	114.00	110.67	110.38	3.03	3.05	3.00	2.92	2.92
274,6,7,9	Other publishing & printing ind.....	144.30	145.11	146.29	141.31	143.91	3.90	3.88	3.86	3.68	3.69
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> .....	153.47	158.76	153.68	148.04	147.14	3.78	3.78	3.73	3.55	3.52
281	Industrial chemicals.....	(*)	179.33	171.79	166.60	163.74	(*)	4.19	4.10	3.92	3.88
2812	Alkalies and chlorine.....	-	190.29	184.34	168.63	166.10	-	4.21	4.18	3.94	3.89
2818	Industrial organic chemicals, n e c.....	-	190.02	180.18	175.53	173.01	-	4.45	4.29	4.13	4.09
2819	Industrial inorganic chemicals, n e c.....	-	170.52	162.77	156.42	155.63	-	4.06	3.97	3.76	3.75
282	Plastics materials and synthetics.....	(*)	161.82	152.40	144.35	144.82	(*)	3.72	3.69	3.47	3.44
2821	Plastics materials and resins.....	-	171.07	164.58	159.34	157.38	-	3.96	3.90	3.68	3.66
2823,4	Synthetic fibers.....	-	151.20	138.23	129.44	131.75	-	3.46	3.43	3.22	3.19
283	Drugs.....	147.02	145.52	142.04	139.67	138.51	3.63	3.62	3.56	3.39	3.37
2834	Pharmaceutical preparations.....	-	139.74	135.59	135.79	134.64	-	3.52	3.45	3.32	3.30
284	Soap, cleaners, and toilet goods.....	154.95	151.70	148.92	144.90	144.01	3.77	3.70	3.65	3.50	3.47
2841	Soap and other detergents.....	-	192.89	191.65	186.19	182.75	-	4.56	4.52	4.33	4.26
2844	Toilet preparations.....	-	122.41	121.40	116.47	115.37	-	3.03	3.02	2.89	2.87
285	Paints and allied products.....	142.86	144.38	144.55	136.61	137.27	3.51	3.53	3.50	3.34	3.34
287	Agricultural chemicals.....	129.83	130.60	128.84	126.05	124.74	3.19	3.17	3.15	2.98	2.97
2871,2	Fertilizers, complete & mixing only.....	-	127.80	124.61	120.13	119.29	-	3.05	3.01	2.82	2.82
286,9	Other chemical products.....	142.56	144.67	142.39	139.18	139.93	3.52	3.52	3.49	3.37	3.38
2892	Explosives.....	-	147.10	146.80	143.26	142.91	-	3.65	3.67	3.52	3.52
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	188.78	187.49	184.03	173.77	172.10	4.32	4.32	4.26	4.06	4.04
291	Petroleum refining.....	195.22	194.77	189.53	177.65	176.38	4.54	4.54	4.47	4.25	4.25
295,9	Other petroleum and coal products.....	(*)	163.80	165.89	159.84	158.12	(*)	3.64	3.63	3.49	3.43
30	<b>RUBBER AND PLASTICS PRODUCTS, N E C</b> .....	128.72	130.98	130.41	128.86	129.90	3.21	3.25	3.22	3.12	3.13
301	Tires and inner tubes.....	(*)	183.92	181.33	196.56	197.86	(*)	4.40	4.38	4.32	4.32
402,3,6	Other rubber products.....	(*)	127.43	127.89	122.21	123.83	(*)	3.17	3.15	3.04	3.05
302	Rubber footwear.....	-	105.57	103.49	101.30	101.57	-	2.70	2.64	2.68	2.68
307	Miscellaneous plastics products.....	115.89	115.31	114.69	109.76	109.35	2.89	2.89	2.86	2.71	2.70
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	91.50	90.50	91.76	88.80	87.58	2.50	2.50	2.48	2.40	2.38
311	Leather tanning and finishing.....	(*)	120.19	121.04	118.40	117.61	(*)	3.13	3.08	2.99	2.97
314	Footwear, except rubber.....	87.72	87.24	88.81	85.41	83.85	2.43	2.43	2.42	2.34	2.31
312,3,5-7,5	Other leather products.....	91.14	89.17	90.04	88.03	86.58	2.45	2.47	2.44	2.36	2.34
316	Luggage.....	-	89.44	91.19	91.72	90.58	-	2.60	2.54	2.42	2.39
317	Handbags and personal leather goods.....	-	88.43	88.88	84.27	83.76	-	2.39	2.37	2.29	2.27
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	160.78	159.95	159.51	151.70	152.11	3.96	3.93	3.90	3.70	3.71
	<b>RAILROAD TRANSPORTATION</b>										
4011	Class I railroads <sup>2</sup> .....	-	(*)	(*)	167.32	166.43	-	(*)	(*)	3.71	3.74
	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b>										
411	Local and suburban transportation.....	-	146.86	147.32	138.99	134.83	-	3.48	3.45	3.21	3.18
413	Intercity highway transportation.....	-	177.61	177.96	159.96	169.58	-	4.14	4.11	3.94	3.99
42	<b>TRUCKING AND WAREHOUSING</b> .....	-	164.37	165.48	155.72	156.51	-	3.98	3.94	3.69	3.70
421,3	Trucking and trucking terminals.....	-	167.67	168.80	159.05	160.55	-	4.05	4.00	3.76	3.76
422	Public warehousing.....	-	123.32	124.09	114.05	112.22	-	3.13	3.11	2.83	2.93
46	<b>PIPE LINE TRANSPORTATION</b> .....	-	193.53	190.57	174.68	172.10	-	4.63	4.57	4.25	4.26
48	<b>COMMUNICATION</b> .....	-	139.70	135.93	134.67	136.42	-	3.51	3.45	3.35	3.36
481	Telephone communication.....	-	138.00	133.17	132.51	134.64	-	3.45	3.38	3.28	3.30
4817	Switchboard operating employees <sup>3</sup> .....	-	99.40	96.47	98.19	96.48	-	2.84	2.78	2.69	2.68
4818	Line construction employees <sup>3</sup> .....	-	194.74	189.03	192.17	195.91	-	4.28	4.21	4.08	4.09
482	Telegraph communication <sup>5</sup> .....	-	158.58	159.22	148.16	148.47	-	3.74	3.72	3.57	3.51
483	Radio and television broadcasting.....	-	150.89	148.99	145.92	147.06	-	3.95	3.88	3.80	3.80

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**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1970 <sup>p</sup>	Sept. 1970 <sup>p</sup>	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 <sup>p</sup>	Sept. 1970 <sup>p</sup>	Aug. 1970	Oct. 1969	Sept. 1969
	<i>Nondurable Goods--Continued</i>										
27	<b>PRINTING AND PUBLISHING</b> .....	37.4	37.6	37.8	38.4	38.6	-	3.0	2.9	3.5	3.9
271	Newspapers.....	(*)	36.0	35.5	36.0	35.8	-	2.9	2.5	3.1	3.0
272	Periodicals.....	-	40.6	40.7	41.1	42.6	-	5.2	4.3	5.2	6.1
273	Books.....	-	37.8	39.5	39.7	41.1	-	2.6	3.1	3.3	4.1
275	Commercial printing.....	38.3	38.6	38.8	39.5	39.6	-	3.3	3.3	4.1	4.6
2751	Commercial printing, ex. lithographic.....	-	38.3	38.6	39.7	39.4	-	-	-	-	-
2752	Commercial printing, lithographic.....	-	39.2	39.2	39.3	40.2	-	-	-	-	-
278	Blankbooks and bookbinding.....	37.5	37.4	38.0	37.9	37.8	-	1.7	1.8	2.7	2.8
274,6,7,9	Other publishing & printing ind.....	37.0	37.4	37.9	38.4	39.0	-	2.3	2.4	3.1	3.4
28	<b>CHEMICALS AND ALLIED PRODUCTS</b> ..	40.6	42.0	41.2	41.7	41.8	-	3.5	3.0	3.4	3.4
281	Industrial chemicals.....	(*)	42.8	41.9	42.5	42.2	-	4.3	3.4	3.9	3.8
2812	Alkalies and chlorine.....	-	45.2	44.1	42.8	42.7	-	-	-	-	-
2818	Industrial organic chemicals, n.e.c.....	-	42.7	42.0	42.5	42.3	-	-	-	-	-
2819	Industrial inorganic chemicals, n.e.c.....	-	42.0	41.0	41.6	41.5	-	-	-	-	-
282	Plastics materials and synthetics.....	(*)	43.5	41.3	41.6	42.1	-	3.6	2.8	2.9	3.0
2821	Plastics materials and resins.....	-	43.2	42.2	43.3	43.0	-	-	-	-	-
2823,4	Synthetic fibers.....	-	43.7	40.3	40.2	41.3	-	-	-	-	-
283	Drugs.....	40.5	40.2	39.9	41.2	41.1	-	2.5	2.0	3.2	3.3
2834	Pharmaceutical preparations.....	-	39.7	39.3	40.9	40.8	-	-	-	-	-
284	Soap, cleaners, and toilet goods.....	41.1	41.0	40.8	41.4	41.5	-	3.1	3.1	3.6	3.7
2841	Soap and other detergents.....	-	42.3	42.4	43.0	42.9	-	-	-	-	-
2844	Toilet preparations.....	-	40.4	40.2	40.3	40.2	-	-	-	-	-
285	Paints and allied products.....	40.7	40.9	41.3	40.9	41.1	-	3.4	3.4	3.1	3.4
287	Agricultural chemicals.....	40.7	41.2	40.9	42.3	42.0	-	4.0	3.6	4.2	3.9
2871,2	Fertilizers, complete & mixing only.....	-	41.9	41.4	42.6	42.3	-	-	-	-	-
286,9	Other chemical products.....	40.5	41.1	40.8	41.3	41.4	-	3.0	2.7	2.9	3.3
2892	Explosives.....	-	40.3	40.0	40.7	40.6	-	-	-	-	-
29	<b>PETROLEUM AND COAL PRODUCTS</b> .....	43.7	43.4	43.2	42.8	42.6	-	4.2	4.0	4.3	4.3
291	Petroleum refining.....	43.0	42.9	42.4	41.8	41.5	-	3.3	2.8	3.1	3.1
295,9	Other petroleum and coal products.....	(*)	45.0	45.7	45.8	46.1	-	7.3	7.7	8.2	8.1
30	<b>RUBBER AND PLASTICS PRODUCTS, NEC</b> ..	40.1	40.3	40.5	41.3	41.5	-	3.5	3.5	4.4	4.5
301	Tires and inner tubes.....	(*)	41.8	41.4	45.5	45.8	-	5.3	4.8	7.9	7.9
302,3,6	Other rubber products.....	(*)	40.2	40.6	40.2	40.6	-	3.0	3.1	3.2	3.5
302	Rubber footwear.....	-	39.1	39.2	37.8	37.9	-	2.1	2.2	2.1	1.8
307	Miscellaneous plastics products.....	40.1	39.9	40.1	40.5	40.5	-	3.1	3.4	3.8	3.8
31	<b>LEATHER AND LEATHER PRODUCTS</b> .....	36.6	36.2	37.0	37.0	36.8	-	1.2	1.5	1.7	1.8
311	Leather tanning and finishing.....	(*)	38.4	39.3	39.6	39.6	-	2.7	2.6	3.4	3.5
314	Footwear, except rubber.....	36.1	35.9	36.7	36.5	36.3	-	1.0	1.4	1.4	1.5
312,3,5-7,9	Other leather products.....	37.2	36.1	36.9	37.3	37.0	-	1.4	1.4	2.1	2.1
316	Luggage.....	-	34.4	35.9	37.9	37.9	-	.7	.9	2.8	3.1
317	Handbags and personal leather goods.....	-	37.0	37.5	36.8	36.9	-	1.8	1.9	2.0	2.0
-	<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	40.6	40.7	40.9	41.0	41.0	-	-	-	-	-
	<b>RAILROAD TRANSPORTATION:</b>										
4011	Class I railroads <sup>2</sup> .....	-	(*)	(*)	45.1	44.5	-	-	-	-	-
	<b>LOCAL AND INTERURBAN PASSENGER TRANSIT:</b>										
411	Local and suburban transportation.....	-	42.2	42.7	43.3	42.4	-	-	-	-	-
413	Intercity highway transportation.....	-	42.9	43.3	40.6	42.5	-	-	-	-	-
42	<b>TRUCKING AND WAREHOUSING</b> .....	-	41.3	42.0	42.2	42.3	-	-	-	-	-
421,3	Trucking and trucking terminals.....	-	41.4	42.2	42.3	42.7	-	-	-	-	-
422	Public warehousing.....	-	39.4	39.9	40.3	38.3	-	-	-	-	-
46	<b>PIPE LINE TRANSPORTATION</b> .....	-	41.8	41.7	41.1	40.4	-	-	-	-	-
48	<b>COMMUNICATION</b> .....	-	39.8	39.4	40.2	40.6	-	-	-	-	-
481	Telephone communication.....	-	40.0	39.4	40.4	40.8	-	-	-	-	-
4817	Switchboard operating employees <sup>3</sup> .....	-	35.0	34.7	36.5	36.0	-	-	-	-	-
4818	Line construction employees <sup>4</sup> .....	-	45.5	44.9	47.1	47.9	-	-	-	-	-
482	Telegraph communication <sup>5</sup> .....	-	42.4	42.8	41.5	42.3	-	-	-	-	-
483	Radio and television broadcasting.....	-	38.2	38.4	38.4	38.7	-	-	-	-	-

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**

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Oct. 1970 <sup>p</sup>	Sept. 1970 <sup>p</sup>	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 <sup>p</sup>	Sept. 1970 <sup>p</sup>	Aug. 1970	Oct. 1969	Sept. 1969
-	<b>TRANSPORTATION AND PUBLIC UTILITIES--Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	-	\$174.72	\$173.06	\$166.38	\$164.74	-	\$4.21	\$4.17	\$3.99	\$3.96
491	Electric companies and systems .....	-	177.62	177.24	169.66	169.24	-	4.28	4.23	4.03	4.02
492	Gas companies and systems .....	-	158.65	156.65	151.57	148.42	-	3.86	3.83	3.67	3.62
493	Combination companies and systems .....	-	190.94	186.64	182.25	178.87	-	4.59	4.53	4.36	4.31
494-7	Water, steam, & sanitary systems .....	-	150.94	147.20	136.94	135.30	-	3.56	3.53	3.34	3.30
-	<b>WHOLESALE AND RETAIL TRADE</b>	\$96.60	97.08	98.74	92.13	92.46	\$2.76	2.75	2.72	2.61	2.59
50	<b>WHOLESALE TRADE</b>	138.11	137.76	138.35	132.59	132.18	3.47	3.47	3.45	3.29	3.28
501	Motor vehicles & automotive equipment .....	-	127.60	130.97	123.02	123.82	-	3.19	3.21	3.03	3.02
502	Drugs, chemicals, and allied products .....	-	142.27	141.51	135.09	134.70	-	3.62	3.61	3.42	3.41
503	Dry goods and apparel .....	-	127.00	127.25	122.95	121.50	-	3.47	3.43	3.27	3.24
504	Groceries and related products .....	-	131.45	131.05	122.41	124.75	-	3.27	3.22	3.03	3.05
506	Electrical goods .....	-	134.58	136.53	137.28	136.08	-	3.39	3.33	3.23	3.24
507	Hardware, plumbing & heating equipment .....	-	132.80	134.13	126.63	12.743	-	3.32	3.32	3.15	3.17
508	Machinery, equipment, and supplies .....	-	151.37	152.18	146.32	145.20	-	3.71	3.73	3.56	3.55
509	Miscellaneous wholesalers .....	-	138.81	140.58	133.51	133.12	-	3.55	3.55	3.38	3.37
52-59	<b>RETAIL TRADE</b>	82.83	83.82	85.40	79.20	79.69	2.48	2.48	2.44	2.35	2.33
53	Retail general merchandise .....	-	78.57	79.44	72.50	73.42	-	2.44	2.40	2.28	2.28
531	Department stores .....	-	83.52	83.20	75.75	77.52	-	2.61	2.56	2.42	2.43
532	Mail order houses .....	-	97.40	96.49	84.37	87.24	-	2.57	2.58	2.39	2.41
533	Variety stores .....	-	57.71	60.29	55.61	55.43	-	1.93	1.92	1.86	1.86
54	Food stores .....	-	91.36	91.60	83.14	84.88	-	2.76	2.71	2.59	2.58
541-3	Grocery, meat, and vegetable stores .....	-	93.52	93.43	84.36	86.13	-	2.80	2.74	2.62	2.61
56	Apparel and accessory stores .....	-	72.82	74.25	68.89	69.22	-	2.29	2.25	2.18	2.17
561	Men's & boys' clothing & furnishings .....	-	88.51	91.70	84.00	85.06	-	2.65	2.62	2.50	2.48
562	Women's ready-to-wear stores .....	-	64.47	65.84	62.22	62.51	-	2.10	2.09	2.02	2.01
565	Family clothing stores .....	-	69.47	71.55	65.65	65.07	-	2.08	2.05	2.02	1.99
566	Shoe stores .....	-	76.30	75.21	69.62	71.07	-	2.43	2.30	2.29	2.30
57	Furniture and home furnishings stores .....	-	111.30	111.97	106.02	105.93	-	3.00	2.97	2.85	2.84
571	Furniture and home furnishings .....	-	111.30	112.05	105.84	105.75	-	3.00	2.98	2.83	2.82
58	Eating and drinking places <sup>6</sup> .....	-	58.40	60.87	55.05	55.83	-	1.89	1.85	1.77	1.75
52,55,59	Other retail trade .....	-	102.92	105.26	99.68	98.68	-	2.73	2.72	2.63	2.59
52	Building materials and farm equipment .....	-	113.26	114.05	108.26	107.33	-	2.86	2.83	2.72	2.67
551,2	Motor vehicle dealers .....	-	132.92	135.86	131.29	128.61	-	3.29	3.33	3.21	3.16
553,9	Other automotive & accessory dealers .....	-	114.68	115.09	110.27	110.24	-	2.77	2.76	2.67	2.65
591	Drug stores and proprietary stores .....	-	76.08	78.26	71.64	72.13	-	2.40	2.35	2.26	2.24
594	Book and stationery stores .....	-	88.67	90.21	82.83	83.64	-	2.57	2.57	2.48	2.46
598	Fuel and ice dealers .....	-	119.60	117.96	116.97	115.02	-	2.91	2.87	2.86	2.84
-	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup></b>	113.77	112.73	113.65	109.45	108.41	3.10	3.08	3.08	2.95	2.93
60	Banking .....	-	102.93	103.79	98.95	98.85	-	2.82	2.79	2.66	2.65
61	Credit agencies other than banks .....	-	105.47	106.69	100.66	99.11	-	2.82	2.83	2.67	2.65
612	Savings and loan associations .....	-	102.30	103.88	97.57	96.05	-	2.78	2.80	2.63	2.61
62	Security, commodity brokers & services .....	-	161.32	161.25	168.06	170.54	-	4.36	4.37	4.53	4.56
63	Insurance carriers .....	-	122.18	122.84	116.12	114.76	-	3.32	3.32	3.13	3.11
631	Life insurance .....	-	123.76	124.83	118.99	116.96	-	3.40	3.42	3.26	3.24
632	Accident and health insurance .....	-	111.91	113.15	103.74	101.28	-	3.10	3.10	2.85	2.79
633	Fire, marine, and casualty insurance .....	-	123.42	123.33	116.73	115.60	-	3.30	3.28	3.08	3.05
-	<b>SERVICES</b>	99.76	99.76	99.75	92.81	92.38	2.90	2.90	2.85	2.69	2.67
	Hotels and other lodging places:										
701	Hotels, tourist courts, and motels <sup>6</sup> .....	-	68.26	69.29	65.82	64.73	-	1.99	1.93	1.87	1.86
	Personal Services:										
721	Laundries and dry cleaning plants .....	-	79.52	78.84	74.21	74.05	-	2.24	2.19	2.05	2.04
722	Photographic studios .....	-	89.27	92.56	84.68	86.25	-	2.58	2.60	2.32	2.35
	Motion pictures:										
781	Motion picture filming & distributing .....	-	182.99	192.16	185.47	184.61	-	4.68	4.78	4.66	4.65

See footnotes at end of table.

**ESTABLISHMENT DATA  
HOURS AND EARNINGS**
**C-2: Gross hours and earnings of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Oct. 1970 <sup>p</sup>	Sept. 1970 <sup>p</sup>	Aug. 1970	Oct. 1969	Sept. 1969	Oct. 1970 <sup>p</sup>	Sept. 1970 <sup>p</sup>	Aug. 1970	Oct. 1969	Sept. 1969
-	<b>TRANSPORTATION AND PUBLIC UTILITIES--Continued</b>										
49	<b>ELECTRIC, GAS, AND SANITARY SERVICES</b>	-	41.5	41.5	41.7	41.6	-	-	-	-	-
491	Electric companies and systems.....	-	41.5	41.9	42.1	42.1	-	-	-	-	-
492	Gas companies and systems.....	-	41.1	40.9	41.3	41.0	-	-	-	-	-
493	Combination companies and systems..	-	41.6	41.2	41.8	41.5	-	-	-	-	-
494-7	Water, steam & sanitary systems.....	-	42.4	41.7	41.0	41.0	-	-	-	-	-
-	<b>WHOLESALE AND RETAIL TRADE.....</b>	35.0	35.3	36.3	35.3	35.7	-	-	-	-	-
50	<b>WHOLESALE TRADE.....</b>	39.8	39.7	40.1	40.3	40.3	-	-	-	-	-
501	Motor vehicles & automotive equipment..	-	40.0	40.8	40.6	41.0	-	-	-	-	-
502	Drugs, chemicals, and allied products...	-	39.3	39.2	39.5	39.5	-	-	-	-	-
503	Dry goods and apparel.....	-	36.6	37.1	37.6	37.5	-	-	-	-	-
504	Groceries and related products.....	-	40.2	40.7	40.4	40.9	-	-	-	-	-
506	Electrical goods.....	-	39.7	41.0	42.5	42.0	-	-	-	-	-
507	Hardware; plumbing & heating equipment	-	40.0	40.4	40.2	40.2	-	-	-	-	-
508	Machinery, equipment, and supplies....	-	40.8	40.8	41.1	40.9	-	-	-	-	-
509	Miscellaneous wholesalers.....	-	39.1	39.6	39.5	39.5	-	-	-	-	-
52-59	<b>RETAIL TRADE.....</b>	33.4	33.8	35.0	33.7	34.2	-	-	-	-	-
53	Retail general merchandise.....	-	32.2	33.1	31.8	32.2	-	-	-	-	-
531	Department stores.....	-	32.0	32.5	31.3	31.9	-	-	-	-	-
532	Mail order houses.....	-	37.9	37.4	35.3	36.2	-	-	-	-	-
533	Variety stores.....	-	29.9	31.4	29.9	29.8	-	-	-	-	-
54	Food stores.....	-	33.1	33.8	32.1	32.9	-	-	-	-	-
541-3	Grocery, meat, and vegetable stores...	-	33.4	34.1	32.2	33.0	-	-	-	-	-
56	Apparel and accessory stores.....	-	31.8	33.0	31.6	31.9	-	-	-	-	-
561	Men's & boys' clothing & furnishings..	-	33.4	35.0	33.6	34.3	-	-	-	-	-
562	Women's ready-to-wear stores.....	-	30.7	31.5	30.8	31.1	-	-	-	-	-
565	Family clothing stores.....	-	33.4	34.9	32.5	32.7	-	-	-	-	-
566	Shoe stores.....	-	31.4	32.7	30.4	30.9	-	-	-	-	-
57	Furniture and home furnishings stores..	-	37.1	37.7	37.2	37.3	-	-	-	-	-
571	Furniture and home furnishings.....	-	37.1	37.6	37.4	37.5	-	-	-	-	-
58	Eating and drinking places <sup>6</sup> .....	-	30.9	32.9	31.1	31.9	-	-	-	-	-
52,55,59	Other retail trade.....	-	37.7	38.7	37.9	38.1	-	-	-	-	-
52	Building materials and farm equipment	-	39.6	40.3	39.8	40.2	-	-	-	-	-
551,2	Motor vehicle dealers.....	-	40.4	40.8	40.9	40.7	-	-	-	-	-
553,9	Other automotive & accessory dealers..	-	41.4	41.7	41.3	41.6	-	-	-	-	-
591	Drug stores and proprietary stores...	-	31.7	33.3	31.7	32.2	-	-	-	-	-
594	Book and stationery stores.....	-	34.5	35.1	33.4	34.0	-	-	-	-	-
598	Fuel and ice dealers.....	-	41.1	41.1	40.9	40.5	-	-	-	-	-
-	<b>FINANCE, INSURANCE, AND REAL ESTATE<sup>7</sup>.....</b>	36.7	36.6	36.9	37.1	37.0	-	-	-	-	-
60	Banking.....	-	36.5	37.2	37.2	37.3	-	-	-	-	-
61	Credit agencies other than banks.....	-	37.4	37.7	37.7	37.4	-	-	-	-	-
612	Savings and loan associations.....	-	36.8	37.1	37.1	36.8	-	-	-	-	-
62	Security, commodity brokers & services..	-	37.0	36.9	37.1	37.4	-	-	-	-	-
63	Insurance carriers.....	-	36.8	37.0	37.1	36.9	-	-	-	-	-
631	Life insurance.....	-	36.4	36.5	36.5	36.1	-	-	-	-	-
632	Accident and health insurance.....	-	36.1	36.5	36.4	36.3	-	-	-	-	-
633	Fire, marine, and casualty insurance...	-	37.4	37.6	37.9	37.9	-	-	-	-	-
-	<b>SERVICES.....</b>	34.4	34.4	35.0	34.5	34.6	-	-	-	-	-
701	Hotels and other lodging places: Hotels, tourist courts, and motels <sup>6</sup> ...	-	34.3	35.9	35.2	34.8	-	-	-	-	-
721	Personal Services: Laundries & dry cleaning plants.....	-	35.5	36.0	36.2	36.3	-	-	-	-	-
722	Photographic studios.....	-	34.6	35.6	36.5	36.7	-	-	-	-	-
781	Motion pictures: Motion picture filming & distributing...	-	39.1	40.2	39.8	39.7	-	-	-	-	-

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

<sup>2</sup> Beginning January 1965, data relate to railroads with operating revenues of \$5,000,000 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 1968, such employees made up 32 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 craftsmen; installation and exchange repair craftsmen; line, cable, and conduit craftsmen; and laborers. In 1968, such employees made up 32 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

<sup>5</sup> Data relate to nonsupervisory employees except messengers.

<sup>6</sup> Money payments only; tips, not included.

<sup>7</sup> Data for nonoffice salesmen excluded from all series in this division.

\*Not available.

\*\* Data for July 1970 revised as follows: \$165, 15, \$4, 16, 39, 7 and 3.0.

p=preliminary.

**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	1970							1969					
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
<b>EXECUTIVE BRANCH</b>													
Total employment . . . . .	2,637.4	2,662.9	2,672.7	2,728.6	2,802.0	2,721.7	2,658.3	2,654.1	2,724.9	2,669.2	2,679.6	2,697.3	2,767.2
Average weekly hours . . . . .	39.2	r39.3	r38.9	38.2	r37.9	r38.2	39.5	39.2	39.6	39.6	39.5	39.3	39.6
Average overtime hours . . . . .	.9	.8	.8	r .8	r .9	.9	1.0	1.0	1.5	1.0	.9	1.0	.9
Indexes (1965=100):													
Average weekly earnings . . . . .	135.6	r133.6	r134.0	r132.4	r129.2	r124.7	128.9	128.2	130.4	128.7	127.2	126.0	124.7
Average hourly earnings . . . . .	140.1	r137.7	r139.5	r140.4	r138.0	r132.2	132.2	132.5	133.3	131.6	130.4	129.8	127.5
<b>DEPARTMENT OF DEFENSE</b>													
Total employment . . . . .	1,021.9	1,034.5	1,044.7	1,048.1	1,053.4	1,057.3	1,069.1	1,075.7	1,083.9	1,091.0	1,102.8	1,111.6	1,142.9
Average weekly hours . . . . .	40.0	39.9	39.3	39.7	40.0	40.0	40.0	39.2	39.1	39.8	40.1	39.6	39.8
Average overtime hours . . . . .	.7	.7	.8	.7	.7	.8	.8	.8	.8	.8	.8	.9	1.0
Indexes (1965=100):													
Average weekly earnings . . . . .	135.0	134.4	136.0	137.9	136.4	130.2	130.2	127.3	128.1	128.4	126.8	125.2	123.8
Average hourly earnings . . . . .	137.7	137.4	141.1	141.7	139.1	132.7	132.7	132.4	133.6	131.6	129.0	129.0	126.9
<b>POST OFFICE DEPARTMENT</b>													
Total employment . . . . .	723.5	726.8	723.9	716.5	716.0	713.9	724.8	725.2	793.6	726.1	725.5	726.5	741.0
Average weekly hours . . . . .	38.8	38.5	38.7	38.7	39.0	38.0	39.1	39.2	40.8	39.7	38.8	38.7	38.7
Average overtime hours . . . . .	.9	.7	.9	1.2	1.6	1.3	1.4	1.6	3.3	1.5	1.3	1.2	.9
Indexes (1965=100):													
Average weekly earnings . . . . .	134.2	123.1	124.6	125.3	126.8	116.3	119.4	120.6	127.2	121.5	118.4	117.8	116.6
Average hourly earnings . . . . .	142.9	132.0	133.0	133.7	134.3	126.4	126.1	127.1	128.7	126.4	126.1	125.7	124.4
<b>OTHER AGENCIES</b>													
Total employment . . . . .	892.0	901.6	904.1	964.0	1,032.6	950.5	864.4	853.2	847.4	852.1	851.3	859.2	883.3
Average weekly hours . . . . .	38.5	r39.2	r38.6	r36.1	r34.9	r36.5	r39.1	39.2	39.1	39.3	39.3	39.4	40.0
Average overtime hours . . . . .	.9	1.0	r .9	r .7	r .7	.8	.8	.9	.8	.9	.8	.8	.8
Indexes (1965=100):													
Average weekly earnings . . . . .	137.3	r140.9	r139.3	r130.8	r123.1	r125.0	r134.9	135.8	136.0	135.6	135.1	133.8	131.4
Average hourly earnings . . . . .	140.9	r142.0	r142.5	r143.1	r139.3	r135.2	136.3	136.9	137.4	136.3	135.8	134.1	129.8

NOTE: Averages presented in this table have been computed using data collected by the U.S. Civil Service Commission from all agencies of 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 supervisory and nonsupervisory, they are not comparable to similar data presented in table C-2 which relate only to production or nonsupervisory workers.

r= revised

**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>				
	Oct. 1970 P	Sept. 1970 P	Aug. 1970	Oct. 1969	Sept. 1969
<b>MANUFACTURING . . . . .</b>	\$3.26	\$3.29	\$3.25	\$3.11	\$3.09
<b>DURABLE GOODS . . . . .</b>	3.46	3.49	3.46	3.29	3.28
Ordnance and accessories . . . . .	-	3.56	3.52	3.38	3.36
Lumber and wood products . . . . .	-	2.93	2.92	2.71	2.71
Furniture and fixtures . . . . .	-	2.72	2.72	2.57	2.57
Stone, clay, and glass products . . . . .	-	3.29	3.26	3.09	3.06
Primary metal industries . . . . .	-	3.92	3.85	3.67	3.67
Fabricated metal products . . . . .	-	3.45	3.42	3.23	3.22
Machinery, except electrical . . . . .	-	3.68	3.65	3.48	3.44
Electrical equipment and supplies . . . . .	-	3.25	3.22	3.02	3.02
Transportation equipment . . . . .	-	3.95	3.96	3.77	3.75
Instruments and related products . . . . .	-	3.31	3.28	3.09	3.07
Miscellaneous manufacturing industries . . . . .	-	2.77	2.75	2.59	2.58
<b>NONDURABLE GOODS . . . . .</b>	3.01	3.02	2.97	2.84	2.82
Food and kindred products . . . . .	-	3.04	2.97	2.83	2.80
Tobacco manufactures . . . . .	-	2.82	2.71	2.44	2.45
Textile mill products . . . . .	-	2.37	2.34	2.30	2.29
Apparel and other textile products . . . . .	-	2.41	2.37	2.30	2.30
Paper and allied products . . . . .	-	3.34	3.31	3.11	3.10
Printing and publishing . . . . .	-	(2)	(2)	(2)	(2)
Chemicals and allied products . . . . .	-	3.63	3.60	3.41	3.38
Petroleum and coal products . . . . .	-	4.12	4.07	3.86	3.84
Rubber and plastics products, n e c . . . . .	-	3.11	3.09	2.97	2.97
Leather and leather products . . . . .	-	2.46	2.43	2.35	2.32

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

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

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, in current and 1957-59 dollars**

Industry	Gross average weekly earnings			Spendable average weekly earnings					
	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969	Worker with no dependents			Worker with three dependents		
				Sept. 1970 P	Aug. 1970	Sept. 1969	Sept. 1970 P	Aug. 1970	Sept. 1969
<b>TOTAL PRIVATE:</b>									
Current dollars .....	\$121.36	\$122.20	\$117.87	\$97.36	\$97.99	\$93.35	\$106.11	\$106.78	\$102.49
1957-59 dollars .....	88.84	89.85	91.16	71.27	72.05	72.20	77.68	78.51	79.27
<b>MINING:</b>									
Current dollars .....	164.51	163.97	158.41	129.75	129.34	123.00	140.59	140.15	134.02
1957-59 dollars .....	120.43	120.57	122.51	94.99	95.10	95.13	102.92	103.05	103.65
<b>CONTRACT CONSTRUCTION:</b>									
Current dollars .....	193.14	204.05	193.36	151.50	159.28	148.98	164.19	172.97	162.38
1957-59 dollars .....	141.39	150.04	149.54	110.91	117.12	115.22	120.20	127.18	125.58
<b>MANUFACTURING:</b>									
Current dollars .....	135.43	134.13	132.84	107.90	106.92	104.34	117.25	116.22	114.01
1957-59 dollars .....	99.14	98.63	102.74	78.99	78.62	80.70	85.83	85.46	88.17
<b>TRANSPORTATION AND PUBLIC UTILITIES:</b>									
Current dollars .....	159.95	159.51	152.11	126.25	125.91	118.26	136.83	136.47	128.91
1957-59 dollars .....	117.09	117.29	117.64	92.42	92.58	91.46	100.17	100.35	99.70
<b>WHOLESALE AND RETAIL TRADE:</b>									
Current dollars .....	97.08	98.74	92.46	79.12	80.41	74.52	87.00	88.31	83.00
1957-59 dollars .....	71.07	72.60	71.51	57.92	59.13	57.63	63.69	64.93	64.19
<b>FINANCE, INSURANCE, AND REAL ESTATE:</b>									
Current dollars .....	112.73	113.65	108.41	90.89	91.58	86.40	99.28	100.00	95.28
1957-59 dollars .....	82.53	83.57	83.84	66.54	67.34	66.82	72.68	73.53	73.69
<b>SERVICES:</b>									
Current dollars .....	99.76	99.75	92.38	81.18	81.17	74.46	89.11	89.10	82.94
1957-59 dollars .....	73.03	73.35	71.45	59.43	59.68	57.59	65.23	65.51	64.15
<b>CONSUMER PRICE INDEX</b> (All items, 1957-59 = 100) .....	136.6	136.0	129.3	NOTE: The Consumer Price Index is an estimate of the average change in prices of goods and services purchased by urban wage earners and clerical workers.					

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

p = preliminary (applicable to earnings data only).

**C-6: Indexes of aggregate weekly man-hours and payrolls in industrial and construction activities<sup>1</sup>**

Industry	1957-59=100				
	Oct. 1970 <sup>p</sup>	Sept. 1970 <sup>p</sup>	Aug. 1970	Oct. 1969	Sept. 1969
<b>TOTAL</b> .....	107.7	111.6	113.1	121.0	123.1
<b>MINING</b> .....	79.4	80.4	82.0	81.8	83.2
<b>CONTRACT CONSTRUCTION</b> .....	117.7	115.5	127.4	129.4	134.4
<b>MANUFACTURING</b> .....	107.3	112.5	112.1	121.4	123.1
<b>DURABLE GOODS</b> .....	107.0	114.5	112.9	127.7	129.0
Ordnance and accessories .....	132.9	144.2	145.3	192.7	199.2
Lumber and wood products .....	87.1	89.5	91.2	94.1	96.4
Furniture and fixtures .....	121.4	119.2	119.6	132.5	132.5
Stone, clay, and glass products .....	107.5	109.4	109.8	114.8	116.8
Primary metal industries .....	95.3	108.1	105.7	115.1	117.3
Fabricated metal products .....	118.7	122.5	121.8	132.1	134.0
Machinery, except electrical .....	116.4	120.2	121.7	138.1	139.0
Electrical equipment and supplies .....	131.6	135.7	135.6	151.2	150.7
Transportation equipment .....	83.3	104.9	95.5	124.5	126.3
Instruments and related products .....	115.9	117.7	119.9	131.6	133.0
Miscellaneous manufacturing industries .....	107.2	105.5	105.3	117.3	114.6
<b>NONDURABLE GOODS</b> .....	107.7	109.7	111.0	113.3	115.3
Food and kindred products .....	101.3	107.1	108.3	102.3	110.1
Tobacco manufactures .....	89.3	86.2	86.6	94.7	99.5
Textile mill products .....	98.4	97.3	99.6	106.0	106.3
Apparel and other textile products .....	111.3	110.1	113.8	117.4	117.2
Paper and allied products .....	115.6	117.0	117.1	121.8	122.9
Printing and publishing .....	116.2	118.0	117.7	121.8	121.7
Chemicals and allied products .....	117.1	122.5	120.6	123.6	124.6
Petroleum and coal products .....	84.7	84.3	86.2	83.9	84.4
Rubber and plastics products, nec. ....	149.2	156.1	154.9	168.7	169.4
Leather and leather products .....	82.4	81.6	85.3	87.5	86.4
	<b>Payrolls</b>				
<b>MINING</b> .....	124.7	125.3	126.1	121.1	121.6
<b>CONTRACT CONSTRUCTION</b> .....	224.9	218.8	239.1	227.3	234.1
<b>MANUFACTURING</b> .....	171.5	181.8	178.5	186.6	188.7

<sup>1</sup>For mining and manufacturing, data refer to production and related workers; for contract-construction, data relate to construction workers.

p = preliminary.

**ESTABLISHMENT DATA**  
**SEASONALLY ADJUSTED HOURS**

**C-7: Average weekly hours of production or nonsupervisory workers<sup>1</sup>  
on private nonagricultural payrolls, seasonally adjusted**

Industry	Oct. 1970 <sup>P</sup>	Sept. 1970 <sup>P</sup>	Aug. 1970 <sup>P</sup>	July 1970	June 1970	May 1970	Apr. 1970	Mar. 1970	Feb. 1970	Jan. 1970	Dec. 1969	Nov. 1969	Oct. 1969	Sept. 1969
<b>TOTAL PRIVATE</b> . . . . .	36.8	36.8	37.2	37.3	37.2	37.1	37.2	37.4	37.3	37.5	37.6	37.6	37.5	37.7
<b>MINING</b> . . . . .	42.1	42.1	42.2	42.5	42.4	42.6	43.1	43.2	43.4	42.7	43.2	43.5	43.0	43.1
<b>CONTRACT CONSTRUCTION</b> . . . . .	36.7	35.0	37.3	37.4	37.6	38.1	38.3	38.0	38.2	36.7	38.2	38.1	37.6	38.1
<b>MANUFACTURING</b> . . . . .	39.4	39.3	39.8	40.1	39.8	39.8	40.0	40.2	39.9	40.3	40.7	40.5	40.5	40.7
<i>Overtime hours</i> . . . . .	2.7	2.7	3.0	3.0	3.1	2.9	3.0	3.2	3.2	3.3	3.5	3.5	3.5	3.6
<b>DURABLE GOODS</b> . . . . .	39.8	39.8	40.3	40.7	40.4	40.3	40.4	40.7	40.5	41.0	41.3	41.1	41.2	41.4
<i>Overtime hours</i> . . . . .	2.5	2.7	2.9	3.1	3.2	3.0	3.0	3.2	3.2	3.4	3.6	3.5	3.6	3.8
Ordnance and accessories . . . . .	40.0	39.8	40.4	40.3	40.6	40.8	41.1	41.1	41.3	40.6	40.5	40.3	40.2	40.3
Lumber and wood products . . . . .	38.9	39.4	39.8	39.8	39.6	39.7	39.8	39.5	40.1	39.6	40.3	40.2	39.9	40.0
Furniture and fixtures . . . . .	39.3	38.3	39.0	39.3	38.9	38.8	39.3	39.4	39.3	39.5	40.0	40.0	39.9	40.1
Stone, clay, and glass products . . . . .	41.0	40.9	41.0	41.2	41.1	41.3	41.6	41.8	41.7	41.7	42.1	41.8	41.7	41.9
Primary metal industries . . . . .	39.0	41.1	40.4	40.7	40.4	40.2	40.1	40.7	40.9	41.2	41.7	41.6	42.1	42.1
Fabricated metal products . . . . .	40.1	39.7	40.6	41.3	40.9	40.6	40.9	41.2	41.1	41.4	41.5	41.4	41.4	41.5
Machinery, except electrical . . . . .	40.2	39.9	40.9	41.1	41.1	41.1	41.4	41.8	41.9	42.2	42.6	42.2	42.4	42.6
Electrical equipment and supplies . . . . .	39.8	39.2	39.9	40.4	39.5	39.7	40.0	40.2	39.7	40.5	40.3	40.1	40.2	40.4
Transportation equipment . . . . .	39.9	39.8	40.7	41.2	41.6	40.3	39.7	40.4	40.3	40.2	41.4	40.7	41.2	41.6
Instruments and related products . . . . .	40.0	39.3	40.0	40.3	40.2	40.1	40.5	40.7	40.2	40.7	40.9	40.9	40.7	41.0
Miscellaneous manufacturing industries . . . . .	38.6	38.2	38.6	39.1	38.6	38.7	39.0	39.0	38.6	39.3	39.3	38.9	38.9	39.0
<b>NONDURABLE GOODS</b> . . . . .	38.9	38.6	39.1	39.3	39.0	39.1	39.4	39.4	39.3	39.6	39.8	39.6	39.6	39.7
<i>Overtime hours</i> . . . . .	2.7	2.8	3.0	2.9	3.0	3.0	3.0	3.2	3.2	3.4	3.3	3.3	3.3	3.3
Food and kindred products . . . . .	40.7	40.1	40.7	40.2	40.3	40.7	40.6	40.5	40.7	41.0	40.8	40.8	40.6	40.9
Tobacco manufactures . . . . .	38.7	36.4	37.4	37.9	37.4	37.1	38.3	37.5	37.3	38.3	36.2	37.2	37.3	37.4
Textile mill products . . . . .	39.8	38.9	39.9	40.3	40.0	39.8	40.6	40.2	40.1	40.4	40.9	40.7	40.6	40.7
Apparel and other textile products . . . . .	34.9	34.3	35.1	35.5	35.2	35.1	35.5	35.6	35.5	35.6	36.0	35.8	35.8	35.8
Paper and allied products . . . . .	41.7	41.4	41.7	41.7	41.6	41.8	42.1	42.2	42.3	42.8	42.8	42.7	42.8	42.9
Printing and publishing . . . . .	37.3	37.3	37.6	37.9	37.7	37.7	37.9	38.0	38.0	38.2	38.6	38.4	38.2	38.3
Chemicals and allied products . . . . .	40.6	42.0	41.3	41.5	41.5	41.5	41.4	41.8	41.8	42.0	41.8	41.8	41.7	41.8
Petroleum and coal products . . . . .	43.5	43.0	43.1	42.6	42.6	42.5	41.9	42.2	42.7	42.5	42.3	42.6	42.6	42.2
Rubber and plastics products, nec . . . . .	39.7	39.8	40.4	40.8	40.4	40.0	40.7	40.7	41.0	40.9	41.1	40.8	40.9	41.0
Leather and leather products . . . . .	36.8	36.5	36.8	37.6	37.6	37.7	37.4	37.4	37.1	37.5	37.7	37.3	37.2	37.1
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> . . . . .	40.5	40.5	40.6	40.7	40.6	40.6	40.2	40.6	40.7	40.7	40.8	40.7	40.9	40.8
<b>WHOLESALE AND RETAIL TRADE</b> . . . . .	35.2	35.2	35.4	35.4	35.4	35.4	35.3	35.3	35.4	35.4	35.5	35.5	35.5	35.6
<b>WHOLESALE TRADE</b> . . . . .	39.8	39.7	39.9	40.0	39.9	40.1	40.1	40.1	40.2	40.3	40.5	40.3	40.3	40.3
<b>RETAIL TRADE</b> . . . . .	33.7	33.7	33.9	33.9	33.8	33.9	33.7	33.8	33.7	33.8	33.8	34.0	34.0	34.1
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> . . . . .	36.6	36.7	36.9	36.8	36.7	36.8	36.9	37.0	37.0	36.9	36.9	37.2	37.0	37.1
<b>SERVICES</b> . . . . .	34.5	34.5	34.7	34.6	34.4	34.5	34.4	34.7	34.4	34.4	34.6	34.7	34.6	34.7

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

**ESTABLISHMENT DATA**  
**SEASONALLY ADJUSTED**
**C-8: Indexes of aggregate weekly man-hours in industrial and construction activities<sup>1</sup>**  
**seasonally adjusted**

1957-59=100

Industry	1970										1969		
	Oct. P	Sept. P	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>TOTAL</b> .....	104.7	107.6	109.8	111.3	111.3	111.7	114.1	115.5	115.6	115.4	117.8	117.1	117.9
<b>MINING</b> .....	78.7	78.7	78.6	79.1	79.3	79.5	81.1	81.6	82.2	80.9	81.8	82.0	81.1
<b>CONTRACT CONSTRUCTION</b> .....	107.9	103.0	112.0	112.7	113.4	116.0	119.7	120.6	121.1	113.4	122.5	121.4	118.8
<b>MANUFACTURING</b> .....	105.5	109.8	111.0	112.7	112.6	112.6	114.7	116.3	116.1	117.5	118.7	118.1	119.6
<b>DURABLE GOODS</b> .....	105.6	112.8	114.1	116.1	116.2	116.3	118.5	120.8	120.0	121.8	124.1	123.3	126.4
Ordnance and accessories .....	131.7	143.3	146.7	148.5	156.5	161.9	165.4	174.6	180.1	178.2	186.9	190.5	192.3
Lumber and wood products .....	85.7	87.0	87.2	87.2	87.5	88.7	89.5	90.1	92.1	92.4	94.2	93.6	92.6
Furniture and fixtures .....	117.9	116.5	116.7	117.9	116.4	117.0	122.0	123.6	123.3	125.5	127.4	127.7	128.7
Stone, clay, and glass products .....	105.1	105.6	104.8	105.2	106.2	106.9	108.9	110.5	111.3	110.9	113.5	112.5	112.2
Primary metal industries .....	98.2	108.8	105.5	106.5	105.8	105.6	106.6	109.6	111.1	113.4	116.5	116.8	118.6
Fabricated metal products .....	116.8	119.9	121.9	123.8	122.5	121.9	125.0	126.9	126.9	129.0	130.5	129.7	129.8
Machinery, except electrical .....	117.3	120.5	124.3	127.6	128.1	129.9	133.4	136.2	136.5	137.7	139.8	137.8	139.1
Electrical equipment and supplies .....	129.1	133.5	135.9	140.1	137.8	138.2	141.3	143.0	140.8	135.7	136.0	136.3	148.5
Transportation equipment .....	80.1	102.8	105.2	106.9	109.6	106.8	107.4	110.4	104.7	112.0	116.9	116.1	121.7
Instruments and related products .....	115.3	117.2	120.1	122.8	123.4	125.7	128.3	128.9	127.3	128.9	130.9	130.9	130.7
Miscellaneous manufacturing industries .....	99.3	100.1	101.8	103.5	103.1	104.0	105.7	108.0	108.1	110.1	112.7	107.1	108.7
<b>NONDURABLE GOODS</b> .....	105.2	105.9	106.9	108.3	107.9	107.7	109.8	110.4	110.8	111.9	111.8	111.4	110.7
Food and kindred products .....	94.5	95.3	96.5	95.8	96.9	98.0	97.8	99.0	100.0	99.5	98.0	98.1	95.4
Tobacco manufactures .....	72.0	68.8	78.7	77.4	76.4	76.9	78.2	76.6	76.2	78.2	70.6	76.0	77.3
Textile mill products .....	97.3	96.3	98.6	99.9	99.5	100.2	103.1	102.2	102.7	104.8	105.6	104.9	104.6
Apparel and other textile products .....	109.9	109.1	111.0	113.9	112.1	111.0	113.7	114.2	114.1	116.0	116.9	115.8	115.9
Paper and allied products .....	114.7	115.2	114.9	115.8	116.6	117.5	119.5	120.2	120.2	121.9	121.7	120.7	121.0
Printing and publishing .....	115.6	116.7	116.8	118.4	117.6	118.0	119.7	120.5	120.5	121.3	122.6	121.8	121.0
Chemicals and allied products .....	117.7	122.6	119.8	120.9	120.5	121.1	121.6	123.4	124.0	125.2	124.8	124.6	124.3
Petroleum and coal products .....	83.3	81.7	83.3	83.0	83.0	82.8	81.7	82.9	83.9	83.5	82.4	83.0	83.0
Rubber and plastics products, nec .....	146.3	153.3	153.8	159.3	154.2	144.9	161.1	162.1	163.7	165.1	165.2	164.7	165.5
Leather and leather products .....	83.1	82.4	83.4	87.7	88.0	87.6	87.2	86.9	86.5	88.7	89.5	88.2	88.3

<sup>1</sup> For mining and manufacturing, data refer to production and related workers; for contract construction, data relate to construction workers.  
 p= preliminary.

**C-9: Man-hours of wage and salary workers in nonagricultural establishments**

Industry division	Annual rate, millions of man-hours <sup>1</sup>			Percent change <sup>2</sup>		
	October 1970 P	September 1970 p	August 1970	Sept. 1970 to Oct. 1970	Aug. 1970 to Sept. 1970	Oct. 1969 to Oct. 1970
<b>TOTAL - ALL INDUSTRIES</b> .....	136,839	138,255	138,237	- 11.6	0.2	- 2.2
<b>TOTAL - PRIVATE</b> .....	110,823	112,278	112,365	- 14.5	- 0.9	- 3.3
<b>MINING</b> .....	1,359	1,356	1,358	2.7	- 1.8	- 2.2
<b>CONTRACT CONSTRUCTION</b> .....	6,195	6,208	6,410	- 2.5	- 31.9	- 8.1
<b>MANUFACTURING</b> .....	38,290	39,611	39,773	- 33.4	- 4.8	- 9.4
<b>TRANSPORTATION AND PUBLIC UTILITIES</b> .....	9,490	9,502	9,543	- 3.0	4.9	0.1
<b>WHOLESALE AND RETAIL TRADE</b> .....	27,489	27,560	27,450	- 1.5	- 5.0	0.6
<b>FINANCE, INSURANCE, AND REAL ESTATE</b> .....	7,032	7,063	7,042	- 5.1	3.6	1.6
<b>SERVICES</b> .....	20,968	20,978	20,789	- 0.6	11.5	2.5
<b>GOVERNMENT</b> .....	26,016	25,977	25,872	1.8	5.0	2.8

<sup>1</sup> "Annual rate" refers to total man-hours for 1 week in the month, seasonally adjusted, and expressed as an annual equivalent.

<sup>2</sup> Percent change compounded at annual rates.

p= preliminary.

**OUTPUT PER MAN-HOUR  
SEASONALLY ADJUSTED**

**C-10: Output per man-hour, hourly compensation, and unit labor costs,  
private economy, seasonally adjusted**

(Indexes 1957-59=100)

Year and quarter	Output		Man-hours		Output per man-hour		Compensation per man-hour <sup>1</sup>		Real compensation per man-hour <sup>2</sup>		Unit labor costs		Unit nonlabor payments <sup>3</sup>		Implicit price deflator	
	Private	Private nonfarm	Private	Private nonfarm	Private	Private nonfarm	Private	Private nonfarm	Private	Private nonfarm	Private	Private nonfarm	Private	Private nonfarm	Private	Private nonfarm
1967: 1st quarter	146.4	148.2	110.6	115.5	132.4	128.4	147.6	143.3	128.7	125.0	111.5	111.7	117.7	117.9	113.8	114.0
2d quarter	147.5	149.1	109.5	114.9	134.7	129.8	150.4	145.6	130.3	126.0	111.7	112.1	118.8	118.8	114.3	114.6
3d quarter	149.1	150.9	110.3	115.3	135.2	130.9	152.4	147.8	130.6	126.6	112.8	113.0	119.9	120.3	115.5	115.6
4th quarter	150.1	152.0	111.0	116.1	135.3	130.9	154.3	149.7	131.1	127.2	114.1	114.4	120.6	120.8	116.5	116.7
Annual average	148.3	150.1	110.3	115.4	134.4	130.0	151.2	146.6	130.1	126.2	112.5	112.8	119.2	119.4	115.1	115.2
1968: 1st quarter	152.4	154.3	111.3	116.5	136.9	132.4	158.5	153.6	133.3	129.2	115.8	116.0	120.4	120.8	117.5	117.8
2d quarter	155.1	157.4	112.3	117.7	138.1	133.7	160.8	155.7	133.7	129.5	116.5	116.5	122.3	122.7	118.7	118.8
3d quarter	156.7	159.0	112.9	118.5	138.8	134.2	164.1	158.4	134.7	130.1	118.2	118.1	122.0	122.6	119.6	119.7
4th quarter	157.9	160.1	113.2	118.9	139.5	134.6	167.5	161.7	135.9	131.3	120.1	120.2	122.3	122.7	120.9	121.1
Annual average	155.5	157.7	112.4	117.9	138.3	133.7	162.8	157.4	134.4	130.0	117.7	117.7	121.7	122.1	119.2	119.3
1969: 1st quarter	159.0	161.1	114.2	120.1	139.3	134.1	170.0	163.9	136.3	131.5	122.1	122.2	122.8	123.0	122.4	122.5
2d quarter	159.8	162.4	115.1	121.2	138.9	134.0	172.4	166.2	136.0	131.1	124.2	124.1	123.2	123.0	123.8	123.7
3d quarter	160.9	163.4	115.3	121.7	139.5	134.2	175.9	169.2	136.8	131.6	126.1	126.1	123.6	123.5	125.2	125.1
4th quarter	160.4	163.1	114.8	121.4	139.7	134.3	179.6	172.4	137.8	132.2	128.6	128.4	123.3	123.2	126.6	126.4
Annual average	160.0	162.5	114.9	121.1	139.3	134.2	174.5	167.9	136.8	131.6	125.3	125.2	123.2	123.2	124.5	124.5
1970: 1st quarter	159.2	161.9	114.7	121.4	138.9	133.3	182.6	175.1	138.0	132.3	131.5	131.4	122.7	122.0	128.3	127.9
2d quarter	159.5	162.1	113.8	120.4	140.1	134.6	185.0	177.7	137.6	132.1	132.0	132.0	125.3	124.9	129.5	129.4
3d quarter <sup>p</sup>	160.1	162.8	113.0	119.5	141.7	136.2	188.5	181.0	138.6	133.1	133.0	132.9	127.5	127.4	131.0	130.9
4th quarter																
Annual average																
Percent change over previous quarter at annual rate <sup>4</sup>																
1967: 1st quarter	- 1.3	- 2.2	0.0	- 0.3	- 1.3	- 1.8	3.1	4.3	2.4	3.6	4.4	6.2	- 1.0	- 1.6	2.3	3.2
2d quarter	3.0	2.5	- 3.8	- 2.1	7.0	4.6	7.8	6.3	4.8	3.4	0.7	1.6	3.8	2.9	1.9	2.1
3d quarter	4.3	4.8	2.9	1.6	1.4	3.2	5.4	6.3	1.2	2.0	4.0	3.1	3.9	5.2	4.0	3.9
4th quarter	2.9	2.9	2.5	2.7	0.3	0.3	5.1	5.4	1.6	1.9	4.7	5.1	2.3	1.8	3.8	3.9
1968: 1st quarter	6.1	6.2	1.1	1.5	4.9	4.6	11.2	10.6	6.7	6.2	6.0	5.7	- 0.8	0.0	3.3	3.5
2d quarter	7.2	8.2	3.7	4.2	3.4	3.9	6.1	5.7	1.2	0.9	2.6	1.8	6.6	6.4	4.1	3.5
3d quarter	4.3	4.2	2.0	2.8	2.2	1.4	8.4	7.0	3.1	1.9	6.0	5.5	- 1.0	- 0.4	3.3	3.2
4th quarter	3.1	2.8	1.2	1.3	1.8	1.4	8.5	8.7	3.6	3.8	6.5	7.2	1.1	0.4	4.4	4.6
1969: 1st quarter	2.8	2.6	3.4	4.2	- 0.5	- 1.5	6.2	5.5	- 1.2	- 0.5	6.7	7.1	1.4	1.1	4.7	4.8
2d quarter	2.1	3.1	3.3	3.6	- 1.1	- 0.4	5.9	5.8	- 1.0	- 1.0	7.1	6.3	1.5	0.0	4.9	3.9
3d quarter	2.5	2.5	0.9	1.9	1.6	0.6	8.2	7.3	2.3	1.4	6.5	6.6	1.1	1.5	4.5	4.7
4th quarter	- 1.0	- 0.6	- 1.8	- 1.0	0.8	0.3	8.8	7.7	3.0	1.9	7.9	7.3	- 0.8	- 1.0	4.7	4.3
1970: 1st quarter	- 3.0	- 2.9	- 0.5	- 0.1	- 2.5	- 2.9	6.8	6.6	0.5	0.3	9.6	9.8	- 2.0	- 3.8	5.3	4.8
2d quarter	0.7	0.4	- 3.0	- 3.3	3.7	3.9	5.3	5.9	- 1.1	- 0.6	1.5	1.9	8.6	9.8	4.1	4.6
3d quarter <sup>p</sup>	1.6	1.7	- 2.9	- 3.0	4.6	4.8	7.7	7.8	3.0	3.1	3.0	2.9	7.3	8.5	4.5	4.8
4th quarter																
Percent change over previous year <sup>5</sup>																
Year ending -																
1969: 1st quarter	4.3	4.4	2.6	3.1	1.7	1.3	7.3	6.7	2.3	1.8	5.4	5.4	2.0	1.8	4.1	4.0
2d quarter	3.1	3.2	2.5	3.0	0.6	0.2	7.2	6.7	1.7	1.3	6.6	6.5	0.8	0.2	4.3	4.1
3d quarter	2.7	2.8	2.2	2.7	0.4	0.0	7.2	6.8	1.5	1.2	6.7	6.8	1.3	0.7	4.6	4.5
4th quarter	1.6	1.9	1.4	2.1	0.2	- 0.2	7.3	6.6	1.4	0.7	7.1	6.8	0.8	0.4	4.7	4.4
1970: 1st quarter	0.2	0.5	0.5	1.1	- 0.3	- 0.6	7.4	6.8	1.2	0.6	7.8	7.5	0.0	- 0.8	4.8	4.4
2d quarter	- 0.2	- 0.2	- 1.1	- 0.6	0.9	0.5	7.3	6.9	1.2	0.8	6.3	6.4	1.7	1.5	4.6	4.6
3d quarter <sup>p</sup>	- 0.4	- 0.4	- 2.0	- 1.8	1.6	1.5	7.2	7.0	1.3	1.2	5.5	5.4	3.2	3.2	4.6	4.6
4th quarter																

<sup>1</sup> Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Also includes an estimate of wages, salaries, and supplementary payments for the self-employed.

<sup>2</sup> Compensation per man-hour adjusted for changes in the consumer price index.

<sup>3</sup> Nonlabor payments include profits, depreciation, interest, rental income, and indirect taxes.

<sup>4</sup> Percent change computed from original data.

<sup>5</sup> Current quarter divided by comparable quarter a year ago.

<sup>p</sup> preliminary.

Source: Output data from the Office of Business Economic, U.S. Department of Commerce. Man-hours and compensation of all persons from the Bureau of Labor Statistics. See BLS Handbook of Methods for Surveys and Studies--Chapter 22. Output Per Man-Hour Measures, Private Economy.

## EMPLOYEE COMPENSATION DATA SEASONALLY ADJUSTED

### C-11: Four-quarter changes in compensation, seasonally adjusted

Measure	Percent change over 4-quarter period <sup>1</sup> ending in--								
	1970				1969			1968	
	Sept. <sup>P</sup>	June	Mar.	Dec.	Sept.	June	Mar.	Dec.	Sept.
<b>Average hourly compensation:</b>									
All persons, total private economy . . . . .	7.2	7.3	7.4	7.3	7.2	7.2	7.3	8.5	7.6
All employees, private nonfarm economy . . . . .	7.0	6.8	6.8	6.6	6.8	6.7	6.6	7.9	7.2
<b>Average hourly earnings, private nonfarm economy<sup>2</sup></b>									
Mining . . . . .	5.9	6.0	6.4	7.1	7.0	6.8	6.6	7.0	6.4
Contract construction . . . . .	6.4	6.6	6.9	7.9	7.7	7.4	7.1	6.4	4.8
Manufacturing . . . . .	9.5	9.0	10.2	9.7	8.9	8.5	6.6	7.1	6.9
Excluding effects of overtime and interindustry employment shifts . . . . .	5.5	5.6	5.6	6.0	6.5	5.9	6.0	7.1	6.4
Transportation and public utilities . . . . .	*	6.4	6.0	5.9	6.1	5.8	5.9	6.5	6.2
Wholesale and retail trade . . . . .	6.1	5.3	5.8	5.9	6.3	6.2	6.4	6.6	6.5
Finance, insurance, and real estate . . . . .	6.2	6.1	6.6	6.6	6.3	6.0	6.6	7.4	7.2
Services . . . . .	5.2	4.6	5.0	5.4	5.4	6.4	8.1	7.2	6.9
Average hourly earnings, all Federal executive branch employees <sup>3</sup> . . . . .	8.3	7.8	8.2	8.0	7.6	8.6	7.7	7.1	6.4
Average union scales, 7 building trades:									
Wages and selected benefits . . . . .	*	15.7	9.9	9.6	10.4	7.5	6.9	6.2	9.1
Hourly wage rates . . . . .	12.7	12.9	10.1	10.6	9.4	9.8	9.1	8.4	8.3
Wage rates, hired farm labor . . . . .	11.7	11.8	9.1	9.4	8.5	8.7	7.7	6.9	6.8
Average weekly earnings, private nonfarm economy: <sup>2</sup>	6.2	5.1	4.5	6.6	6.6	9.0	10.7	10.9	9.4
Current dollars . . . . .	4.2	4.4	5.7	6.6	6.4	6.7	6.2	6.3	6.1
1957-59 dollars . . . . .	-1.5	-1.6	-.6	.7	.7	1.2	1.4	1.6	1.7
Real spendable earnings (worker and 3 dependents, 1957-59 dollars) . . . . .	-1.0	-1.3	-.4	-.6	-.7	-.2	-.2	.4	.7

<sup>1</sup> Current quarter divided by comparable quarter a year earlier.

<sup>2</sup> Production and nonsupervisory workers.

<sup>3</sup> Computed from data that are not seasonally adjusted.

\* Not available.

<sup>P</sup> preliminary.

NOTE: See technical description at end of table C-15.

### C-12: Quarter-to-quarter changes in compensation, seasonally adjusted

Measure	Percent change over previous quarter at annual rate								
	1970				1969			1968	
	Sept. <sup>P</sup>	June	Mar.	Dec.	Sept.	June	Mar.	Dec.	Sept.
<b>Average hourly compensation:</b>									
All persons, total private economy . . . . .	7.7	5.3	6.8	8.8	8.2	5.9	6.2	8.5	8.4
All employees, private nonfarm economy . . . . .	8.0	5.9	6.4	7.5	7.3	5.8	5.7	8.5	6.9
<b>Average hourly earnings, private nonfarm economy<sup>1</sup></b>									
Mining . . . . .	6.4	6.1	3.9	7.1	6.8	7.9	6.6	6.7	6.3
Contract construction . . . . .	6.5	4.3	7.4	7.6	7.3	5.4	11.3	6.9	6.2
Manufacturing . . . . .	11.0	7.9	8.0	10.9	9.0	12.8	6.3	7.7	7.2
Excluding effects of overtime and interindustry employment shifts . . . . .	7.4	6.2	3.3	5.1	7.8	6.1	4.8	7.2	5.5
Transportation and public utilities . . . . .	*	7.3	5.7	5.9	6.7	5.6	5.4	6.6	5.4
Wholesale and retail trade . . . . .	11.0	5.1	4.8	3.7	7.6	7.3	5.0	5.1	7.3
Finance, insurance, and real estate . . . . .	8.7	3.6	5.2	7.4	8.2	5.5	5.5	6.2	6.9
Services . . . . .	7.7	.4	5.9	7.0	5.2	1.9	7.8	6.9	9.1
Average hourly earnings, all Federal executive branch employees <sup>2</sup> . . . . .	7.3	6.4	9.7	9.9	5.2	8.1	8.8	8.4	9.2
Average union scales, 7 building trades:									
Wages and selected benefits . . . . .	*	6.0	1.9	3.8	4.7	2.6	1.0	4.5	2.0
Hourly wage rates . . . . .	8.5	24.9	7.1	11.2	9.3	13.0	9.0	6.4	11.0
Wage rates, hired farm labor . . . . .	7.8	22.5	7.6	9.6	8.0	11.3	8.7	6.1	8.7
Average weekly earnings, private nonfarm economy: <sup>1</sup>	15.4	7.6	3/	2.5	10.6	5.3	8.1	2.7	20.9
Current dollars . . . . .	5.3	3.1	2.9	5.4	6.1	8.3	6.4	4.7	7.4
1957-59 dollars . . . . .	1.3	-2.5	-4.0	-.5	.8	1.5	1.1	-.6	2.8
Real spendable earnings (worker and 3 dependents, 1957-59 dollars) . . . . .	.8	-2.7	-.9	-1.3	-.1	.6	-1.4	-1.7	1.9

<sup>1</sup> Production and nonsupervisory workers.

<sup>2</sup> Computed from data that are not seasonally adjusted. Actual percent change rather than annual rate of change is shown where change is affected by a general salary adjustment.

<sup>3</sup> Less than 0.05 percent.

\* Not available.

<sup>P</sup> preliminary.

NOTE: See technical description at end of table C-15.



**EMPLOYEE COMPENSATION DATA  
SEASONALLY ADJUSTED**

**C-13: Twelve-month changes in compensation, seasonally adjusted**

Measure	Percent change at annual rate over 12-month period <sup>1</sup> ending in-												
	1970										1969		
	Oct. P	Sept. P	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
Average hourly earnings, private nonfarm economy <sup>2</sup>	5.1	5.5	6.2	5.9	5.6	6.0	6.3	6.7	6.4	6.1	6.8	7.2	7.2
Mining	6.3	6.3	6.6	6.4	7.3	6.1	6.5	6.8	6.8	7.2	6.0	6.9	10.8
Contract construction	8.7	8.6	10.4	9.4	9.0	8.2	9.6	9.2	10.8	10.5	10.4	9.3	9.6
Manufacturing	4.0	5.6	5.3	5.6	5.7	5.7	5.4	5.8	5.5	5.5	5.8	5.8	6.2
Excluding effects of overtime and interindustry employment shifts	*	*	6.6	6.5	6.6	6.4	6.2	6.3	5.8	5.8	5.8	5.9	6.1
Transportation and public utilities	7.0	6.0	6.3	6.0	6.1	5.0	4.7	5.9	5.7	5.9	5.7	6.0	6.0
Wholesale and retail trade	5.7	6.2	6.2	6.3	5.9	5.9	6.4	6.8	6.4	6.5	6.5	6.5	7.0
Finance, insurance, and real estate	5.1	5.1	5.4	5.2	3.8	4.8	5.2	5.2	4.9	4.9	4.9	6.0	5.3
Services	7.8	8.6	8.7	7.6	7.6	7.7	8.1	8.5	7.8	8.3	7.5	8.8	7.6
Average hourly earnings, all Federal executive branch employees <sup>3</sup>	*	*	*	11.3	15.2	14.9	14.5	9.7	9.7	10.0	10.1	9.4	9.3
Average weekly earnings, private nonfarm economy: <sup>2</sup>													
Current dollars	3.2	3.0	4.8	4.8	4.2	4.3	4.6	5.9	5.9	5.2	6.2	7.1	6.4
1957-59 dollars	*	-2.6	-8	-1.0	-1.7	-1.8	-1.3	-4	-5	-8	.1	1.4	.7
Real spendable earnings (worker and 3 dependents, 1957-59 dollars)	*	-2.0	-5	-7	-1.3	-1.5	-1.0	-3	-4	-7	-1.2	4/	-5

1 Current month divided by same month a year earlier.  
 2 Production and nonsupervisory workers.  
 3 Computed from data that are not seasonally adjusted. Actual percent change rather than annual rate of change is shown where change is affected by a general salary adjustment.  
 4 Less than 0.05 percent.  
 \* Not available.  
 P= preliminary.

NOTE: See technical description at end of table C-15.

**C-14: Six-month changes in compensation, seasonally adjusted**

Measure	Percent change at annual rate over 6-month period <sup>1</sup> ending in-												
	1970										1969		
	Oct. P	Sept. P	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
Average hourly earnings, private nonfarm economy <sup>2</sup>	5.1	5.1	7.1	6.5	4.5	5.2	5.2	5.9	5.3	5.3	6.7	6.7	7.5
Mining	7.0	4.8	5.9	5.4	7.2	4.9	5.5	7.8	7.3	7.3	7.4	7.4	7.5
Contract construction	8.3	8.4	11.8	8.1	7.7	7.0	9.1	8.8	8.9	10.7	10.3	9.5	10.0
Manufacturing	3.6	7.4	6.8	6.2	4.9	5.0	4.4	4.4	3.1	5.1	6.4	6.4	6.5
Excluding effects of overtime and interindustry employment shifts	*	*	7.9	7.3	6.8	6.7	5.9	6.4	5.3	5.7	6.3	6.1	6.6
Transportation and public utilities	10.4	7.6	9.3	7.1	6.6	4.4	3.8	4.4	3.3	5.0	5.6	5.6	5.6
Wholesale and retail trade	6.9	6.1	6.1	6.2	3.8	4.6	4.7	6.3	6.3	6.3	8.0	7.2	8.1
Finance, insurance, and real estate	6.0	2.6	5.4	4.0	2.7	2.7	4.1	7.6	5.5	6.3	4.9	7.0	6.4
Services	6.5	6.5	7.4	6.7	8.3	6.7	9.2	10.8	10.1	8.5	7.0	8.6	7.1
Average hourly earnings, all Federal executive branch employees <sup>3</sup>	*	*	*	3.9	4.6	6.7	5.8	3.7	3.7	7.1	10.1	7.7	8.2
Average weekly earnings, private nonfarm economy: <sup>2</sup>													
Current dollars	2.8	1.4	5.8	5.5	2.7	2.8	3.5	4.6	3.8	4.0	5.7	5.8	5.8
1957-59 dollars	*	-2.9	.9	.2	-2.9	-3.8	-3.1	-2.3	-2.5	-2.2	-.4	.3	.5
Real spendable earnings (worker and 3 dependents, 1957-59 dollars)	*	-2.8	.3	-.3	-1.3	-2.5	-1.6	-1.2	-1.2	-1.0	-1.3	-.4	-.4

1 Current month divided by month 6 months earlier.  
 2 Production and nonsupervisory workers.  
 3 Computed from data that are not seasonally adjusted. Actual percent change rather than annual rate of change is shown where change is affected by a general salary adjustment.  
 \* Not available.  
 P= preliminary.

NOTE: See technical description at end of table C-15.

**EMPLOYEE COMPENSATION DATA  
SEASONALLY ADJUSTED**

**C-15: Average hourly or weekly compensation,<sup>1</sup> seasonally adjusted**

Measure	1970										1969		
	3rd Qtr.				2nd Qtr.			1st Qtr.			4th Qtr.		
	Oct. <sup>P</sup>	Sept. <sup>P</sup>	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.
<b>Average hourly compensation:</b>													
All persons, total private economy quarterly indexes (1957-59 = 100) . . . . .	-	-	188.5	-	-	185.0	-	-	182.6	-	-	179.6	-
All employees, private nonfarm economy quarterly indexes (1957-59 = 100) . . . . .	-	-	179.7	-	-	176.3	-	-	173.8	-	-	171.1	-
<b>Average hourly earnings, private nonfarm economy<sup>2</sup></b>													
Mining . . . . .	\$ 3.27	\$ 3.26	\$ 3.26	\$ 3.23	\$ 3.21	\$ 3.20	\$ 3.19	\$ 3.18	\$ 3.15	\$ 3.13	\$ 3.14	\$ 3.12	\$ 3.11
Contract construction . . . . .	3.91	3.88	3.87	3.84	3.83	3.80	3.78	3.79	3.76	3.74	3.70	3.71	3.68
Manufacturing . . . . .	5.35	5.29	5.33	5.24	5.19	5.12	5.14	5.08	5.04	5.04	5.00	4.95	4.92
Excluding effects of overtime and interindustry employment shifts monthly indexes (1957-59 = 100) . . . . .	3.38	3.42	3.40	3.38	3.36	3.34	3.32	3.31	3.28	3.28	3.28	3.26	3.25
Transportation . . . . .	\$ 3.95	\$ 3.91	\$ 3.91	\$ 3.87	\$ 3.84	\$ 3.79	\$ 3.76	\$ 3.77	\$ 3.74	\$ 3.74	\$ 3.72	\$ 3.71	\$ 3.69
Wholesale and retail trade . . . . .	2.76	2.75	2.74	2.72	2.69	2.68	2.67	2.67	2.66	2.64	2.64	2.62	2.61
Finance, insurance, and real estate . . . . .	3.11	3.09	3.10	3.06	3.03	3.03	3.02	3.05	3.02	3.00	2.99	2.99	2.96
Services . . . . .	2.89	2.89	2.86	2.83	2.82	2.81	2.80	2.80	2.76	2.74	2.71	2.72	2.68
<b>Average hourly earnings, all Federal executive branch employees,<sup>3</sup> monthly indexes (1965 = 100) . . . . .</b>													
	*	*	*	137.7	139.5	140.4	138.0	132.2	132.2	132.5	133.3	131.6	130.4
<b>Average union scales, 7 building trades:</b>													
Wages and selected benefits, quarterly indexes (July 1967 = 100) . . . . .	133.8	-	-	131.1	-	-	124.0	-	-	121.9	-	-	118.7
Hourly wage rates, quarterly indexes (July 1967 = 100) . . . . .	129.7	-	-	127.3	-	-	121.0	-	-	118.8	-	-	116.1
Wage rates, hired farm labor . . . . .	\$ 1.71	-	-	\$ 1.65	-	-	\$ 1.62	-	-	\$ 1.62	-	-	\$ 1.61
<b>Average weekly earnings, private nonfarm economy:<sup>2</sup></b>													
Current dollars . . . . .	120.31	119.80	121.23	120.37	119.33	118.76	118.65	118.99	117.85	117.17	117.74	117.15	116.61
1957-59 dollars . . . . .	*	87.87	89.23	88.79	88.35	88.14	88.54	89.15	88.85	88.72	89.67	89.86	89.93
Real spendable earnings (worker and 3 dependents, 1957-59 dollars) . . . . .	*	76.99	77.96	77.71	77.33	77.25	77.61	78.09	77.84	77.84	77.83	78.25	78.24

<sup>1</sup> Series are in dollars except where index base is shown.    <sup>2</sup> Production and nonsupervisory workers.    <sup>3</sup> Not seasonally adjusted.    \* Not available.    <sup>P</sup> preliminary.

**Technical description covering tables C-11 through C-15**

Characteristic	Average hourly compensation	Average hourly and weekly earnings	Union scales, building trades	Wage rates, hired farm labor
Reference period and source	Basic time series consists of quarterly averages. Data are developed by BLS from Department of Commerce estimates of compensation and BLS man-hour estimates.	Basic time series consists of averages for payroll period including 12th of month. Monthly data have been summed and divided by 3 to obtain quarterly averages. Private industry data obtained by BLS from a stratified probability sample of establishments. Federal data obtained from the Civil Service Commission.	Basic time series consists of wage rates and selected benefits as of January 1, April 1, July 1, and October 1. Data obtained by BLS from local union officials and union agreements. Published quarterly in press releases.	Basic time series consists of rates as of week preceding January 1, April 1, July 1, and October 1. Data obtained by Department of Agriculture from a sample survey of farm operators and published quarterly in <i>Farm Labor</i> by USDA.
Type of compensation	Compensation is the total of wages and salaries plus supplements to wages and salaries (according to National Income Accounts definitions) per man-hour paid for.	Except for "manufacturing excluding overtime and inter-industry employment shifts," compensation is gross regular payments to workers, i.e., straight-time hourly earnings plus premium and incentive pay, before payroll deductions. Weekly earnings in 1957-59 dollars adjust earnings for price changes while spendable earnings adjust for price and Federal income and social security tax changes.	Compensation is, in the case of wage scales, minimum wage rates (excluding premium pay for holiday, vacation, or overtime) agreed upon in collective bargaining. In the case of wages and selected benefits, it is wages, as defined above, plus employer payments to health and welfare, pension, and vacation funds.	Compensation is cash payments to worker, exclusive of perquisites such as room or board.
Type of worker	1. Total private economy: All persons, i.e., all employees and imputed compensation of self employed. 2. Nonfarm economy: All nonfarm employees including government enterprise and private household workers.	1. Private: Production and related workers in mining and manufacturing; construction workers in contract construction; and nonsupervisory workers in all other industries. 2. Federal Executive Branch: All workers, supervisory and nonsupervisory.	Unionized building trades workers in continental United States cities of 100,000 population or more in the following seven trades: bricklayers, building laborers, carpenters, electricians, painters, plasterers, and plumbers.	Hired farm workers defined as those working only for wages, for 1 hour or more on farm during survey week.

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

**C-16: Gross hours and earnings of production workers on manufacturing payrolls,  
 by State and selected areas**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1969
ALABAMA	\$118.37	\$114.97	\$112.89	40.4	40.2	41.2	\$2.93	\$2.86	\$2.74
Birmingham	144.90	134.52	134.88	41.4	39.8	41.5	3.50	3.38	3.25
Mobile	139.06	137.27	131.55	40.9	41.1	42.3	3.40	3.34	3.11
ALASKA	(*)	177.51	200.69	(*)	40.9	40.3	(*)	4.34	4.98
ARIZONA	133.12	133.87	126.54	39.5	40.2	40.3	3.37	3.33	3.14
Phoenix	133.06	133.60	126.40	39.6	40.0	40.0	3.36	3.34	3.16
Tucson	134.31	135.96	132.80	40.7	41.2	41.5	3.30	3.30	3.20
ARKANSAS	101.15	99.20	97.64	40.3	40.0	41.2	2.51	2.48	2.37
Fort Smith	90.77	91.78	94.89	37.2	38.4	37.2	2.44	2.39	2.32
Little Rock-North Little Rock	108.67	105.46	101.18	40.7	40.1	40.8	2.67	2.63	2.48
Pine Bluff	139.73	134.07	121.01	42.6	41.0	41.3	3.28	3.27	2.93
CALIFORNIA	151.70	151.27	148.56	39.3	39.6	40.7	3.86	3.82	3.65
Anaheim-Santa Ana-Garden Grove	148.92	151.55	150.70	39.5	40.2	41.4	3.77	3.77	3.64
Bakersfield	152.10	150.53	151.03	39.0	39.2	40.6	3.90	3.84	3.72
Fresno	128.98	125.78	121.91	38.5	38.0	38.7	3.35	3.31	3.15
Los Angeles-Long Beach	146.22	146.12	144.54	39.2	39.6	40.6	3.73	3.69	3.56
Modesto-Turlock	125.09	123.58	132.07	36.9	37.0	41.4	3.39	3.34	3.19
Oxnard-Ventura	140.07	128.74	126.68	40.6	37.1	39.1	3.45	3.47	3.24
Sacramento	166.06	161.20	158.12	40.8	39.9	41.5	4.07	4.04	3.81
Salinas-Monterey	136.91	122.38	135.34	39.8	36.1	40.4	3.44	3.39	3.35
San Bernardino-Riverside-Ontario	154.75	151.58	144.94	40.3	40.1	40.6	3.84	3.78	3.57
San Diego	164.67	166.38	157.99	39.3	39.9	40.2	4.19	4.17	3.93
San Francisco-Oakland	166.84	165.78	162.81	38.8	39.1	40.1	4.24	4.24	4.06
San Jose	160.39	158.78	154.09	40.3	40.3	41.2	3.98	3.94	3.74
Santa Barbara	136.46	141.51	140.70	37.8	39.2	40.2	3.61	3.61	3.50
Santa Rosa	132.47	139.81	126.34	36.9	41.0	38.4	3.59	3.41	3.29
Stockton	166.37	156.29	147.63	43.1	40.7	42.3	3.86	3.84	3.49
Vallejo-Napa	140.98	144.40	142.40	37.1	38.0	38.8	3.80	3.80	3.67
COLORADO	139.74	142.45	142.80	39.7	40.7	42.0	3.52	3.50	3.40
Denver	145.27	145.04	146.01	39.8	40.4	42.2	3.65	3.59	3.46
CONNECTICUT	139.78	138.57	139.26	40.4	40.4	42.2	3.46	3.43	3.30
Bridgeport	140.54	142.56	143.06	39.7	40.5	42.2	3.54	3.52	3.39
Hartford	148.37	148.99	153.04	41.1	41.5	43.6	3.61	3.59	3.51
New Britain	135.93	135.29	138.86	39.4	49.1	41.7	3.45	3.46	3.33
New Haven	142.26	140.24	139.35	40.3	40.3	42.1	3.53	3.48	3.31
Stamford	152.35	151.25	145.67	41.4	41.1	42.1	3.68	3.68	3.46
Waterbury	131.87	132.75	126.27	40.7	41.1	41.4	3.24	3.23	3.05
DELAWARE	147.60	128.98	136.94	41.0	38.5	41.0	3.60	3.35	3.34
Wilmington	164.80	148.55	153.14	41.2	39.3	41.5	4.00	3.78	3.69
DISTRICT OF COLUMBIA :									
Washington SMSA	153.25	145.92	141.12	38.7	38.3	39.2	3.96	3.81	3.60
FLORIDA	120.39	118.78	115.51	40.4	40.4	41.4	2.98	2.94	2.79
Fort Lauderdale-Hollywood	124.97	127.61	113.60	39.3	40.9	40.0	3.18	3.12	2.84
Jacksonville	(*)	129.16	123.68	(*)	41.8	42.5	(*)	3.09	2.91
Miami	113.97	114.34	107.87	39.3	39.7	40.4	2.90	2.88	2.67
Orlando	(*)	118.38	114.54	(*)	39.2	41.5	(*)	3.02	2.76
Pensacola	(*)	138.32	134.55	(*)	38.0	41.4	(*)	3.64	3.25
Tampa-St. Petersburg	(*)	126.96	116.06	(*)	41.9	41.9	(*)	3.03	2.77
West Palm Beach	(*)	132.40	126.28	(*)	42.3	41.0	(*)	3.13	3.08
GEORGIA	107.33	107.07	106.71	39.9	40.1	41.2	2.69	2.67	2.59
Atlanta	131.63	132.05	131.54	38.6	39.3	40.6	3.41	3.36	3.24
Savannah	144.16	137.61	126.28	42.4	41.2	41.0	3.40	3.34	3.08
HAWAII	127.54	126.23	127.20	38.3	42.5	40.0	3.33	2.97	3.18
Honolulu	125.40	124.44	126.43	37.1	41.9	38.9	3.38	2.97	3.25
IDAHO	136.12	139.84	129.87	39.8	40.3	39.0	3.42	3.47	3.33
ILLINOIS	148.56	147.27	144.98	40.0	40.3	41.5	3.71	3.66	3.50
Chicago	(*)	150.24	147.43	(*)	40.4	41.4	(*)	3.72	3.56
Davenport-Rock Island-Moline	(*)	163.87	152.62	(*)	39.8	40.1	(*)	4.11	3.81

See footnotes at end of table.

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

**C-16: Gross hours and earnings of production workers on manufacturing payrolls,  
by State and selected areas--Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969
<b>ILLINOIS (continued)</b>									
Peoria .....	(*)	\$163.77	\$161.73	(*)	40.4	41.8	(*)	\$4.05	\$3.87
Rockford .....	(*)	140.78	155.94	(*)	39.8	44.0	(*)	3.54	3.54
<b>INDIANA</b>									
Indianapolis .....	\$151.50	151.15	148.10	40.4	40.2	41.6	\$3.75	3.76	3.56
.....	(*)	153.47	149.23	(*)	40.6	41.8	(*)	3.78	3.57
<b>IOWA</b>									
Cedar Rapids .....	149.17	144.60	142.61	40.1	39.4	40.4	3.72	3.67	3.53
Des Moines .....	153.78	147.68	144.01	40.9	39.7	41.5	3.76	3.72	3.47
Dubuque .....	154.00	148.96	157.17	40.0	39.2	41.8	3.85	3.80	3.76
Sioux City .....	165.59	150.75	160.74	38.6	36.5	39.3	4.29	4.13	4.09
Waterloo .....	132.84	130.40	124.32	40.5	40.0	42.0	3.28	3.26	2.96
.....	164.82	158.73	152.82	40.2	39.0	39.9	4.10	4.07	3.83
<b>KANSAS</b>									
Topeka .....	141.70	134.23	130.84	41.8	40.9	42.4	3.39	3.28	3.08
Wichita .....	157.40	136.18	161.02	43.7	41.2	46.5	3.60	3.31	3.46
.....	152.69	145.79	135.30	43.6	41.8	42.4	3.50	3.49	3.19
<b>KENTUCKY</b>									
Louisville .....	131.03	130.08	124.80	38.2	39.3	40.0	3.43	3.31	3.12
.....	146.20	145.43	138.33	39.3	39.2	39.7	3.72	3.71	3.48
<b>LOUISIANA</b>									
Baton Rouge .....	143.29	139.35	131.66	42.9	42.1	42.2	3.34	3.31	3.12
New Orleans .....	165.17	158.00	158.79	42.9	41.8	42.8	3.85	3.78	3.71
Shreveport .....	133.51	133.45	135.22	39.5	39.6	41.1	3.38	3.37	3.29
.....	128.65	128.44	122.18	41.5	41.3	41.7	3.10	3.11	2.93
<b>MAINE</b>									
Lewiston-Auburn .....	109.85	110.42	104.66	39.8	40.3	40.1	2.76	2.74	2.61
Portland .....	89.05	88.70	86.11	36.2	36.5	36.8	2.46	2.43	2.34
.....	115.74	115.92	110.57	39.1	39.7	40.5	2.96	2.92	2.73
<b>MARYLAND</b>									
Baltimore .....	141.92	136.28	134.07	40.9	40.2	41.0	3.47	3.39	3.27
.....	149.92	142.71	140.08	41.3	40.2	41.2	3.63	3.55	3.40
<b>MASSACHUSETTS</b>									
Boston .....	127.98	125.90	124.00	39.0	39.1	40.0	3.28	3.22	3.10
Brockton .....	141.41	136.89	132.93	39.5	39.0	39.8	3.58	3.51	3.34
Fall River .....	107.67	111.25	103.97	37.0	38.1	37.0	2.91	2.92	2.81
Lawrence-Haverhill .....	93.91	95.93	91.35	34.4	35.4	35.0	2.73	2.71	2.61
Lowell .....	119.03	115.89	115.60	38.9	38.5	40.0	3.06	3.01	2.89
New Bedford .....	112.31	114.17	108.98	38.2	39.1	39.2	2.94	2.92	2.78
Springfield-Chicopee-Holyoke .....	102.58	101.63	98.47	37.3	37.5	37.3	2.75	2.71	2.64
Worcester .....	127.92	127.59	128.21	39.0	39.5	40.7	3.28	3.23	3.15
.....	126.41	128.35	131.46	37.4	38.2	40.7	3.28	3.36	3.23
<b>MICHIGAN</b>									
Ann Arbor .....	165.49	167.91	172.27	39.3	40.5	42.8	4.21	4.15	4.03
Battle Creek .....	185.47	178.17	163.95	42.5	41.6	41.1	4.36	4.28	3.99
Bay City .....	163.17	167.53	165.46	39.3	40.3	42.7	4.15	4.16	3.88
Detroit .....	163.29	161.19	155.96	41.1	41.1	43.0	3.97	3.92	3.63
Flint .....	180.47	180.22	185.97	40.6	41.1	43.8	4.45	4.39	4.25
Grand Rapids .....	163.96	189.73	190.86	34.9	41.3	42.9	4.70	4.59	4.45
Jackson .....	147.88	155.37	150.23	39.1	41.4	41.8	3.78	3.75	3.59
Kalamazoo .....	155.29	153.93	160.38	37.5	37.6	40.8	4.14	4.09	3.93
Lansing .....	168.70	171.16	160.76	41.5	42.2	43.9	4.07	4.06	3.66
Muskegon-Muskegon Heights .....	188.28	183.35	180.67	42.3	41.7	43.4	4.45	4.40	4.16
Saginaw .....	147.03	152.78	149.60	38.2	40.1	42.2	3.85	3.81	3.55
.....	170.87	191.32	169.57	38.2	42.6	41.9	4.47	4.49	4.05
<b>MINNESOTA</b>									
Duluth-Superior <sup>1</sup> .....	140.13	140.69	141.03	39.6	40.0	42.1	3.54	3.52	3.35
Minneapolis-St. Paul .....	132.09	132.88	129.13	39.3	39.4	39.4	3.37	3.37	3.28
.....	148.54	148.02	150.54	39.5	39.8	42.0	3.77	3.72	3.59
<b>MISSISSIPPI</b>									
Jackson .....	98.58	97.53	97.06	40.4	40.3	41.3	2.44	2.42	2.35
.....	101.50	101.60	94.58	41.6	41.3	41.3	2.44	2.46	2.29
<b>MISSOURI</b>									
Kansas City .....	135.83	132.26	131.20	39.6	38.9	40.0	3.43	3.40	3.28
St. Joseph .....	132.26	126.04	131.22	40.2	38.9	40.5	3.29	3.24	3.24
St. Louis .....	150.16	145.67	142.14	43.4	42.1	43.6	3.46	3.46	3.26
Springfield .....	154.00	150.91	147.83	40.0	39.3	40.5	3.85	3.84	3.65
.....	110.58	111.07	106.47	38.8	38.7	39.7	2.85	2.87	2.68
<b>MONTANA</b>									
.....	157.41	156.97	145.44	41.1	41.2	41.2	3.83	3.81	3.53
<b>NEBRASKA</b>									
Lincoln .....	136.82	136.80	129.34	41.8	42.5	43.1	3.27	3.22	3.00
Omaha .....	126.70	128.02	-	40.2	40.4	-	3.15	3.17	-
.....	139.69	138.74	130.94	41.3	41.5	42.0	3.39	3.35	3.12

See footnotes at end of table.

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

**C-16: Gross hours and earnings of production workers on manufacturing payrolls,  
 by State and selected areas--Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969
NEVADA.....	\$159.80	\$164.80	\$159.58	38.6	40.0	39.5	\$4.14	\$4.12	\$4.04
Las Vegas.....	(*)	181.75	181.05	(*)	41.4	42.4	(*)	4.39	4.27
NEW HAMPSHIRE.....	110.40	108.96	105.74	38.6	38.5	39.9	2.86	2.83	2.65
Manchester.....	98.62	98.74	96.00	36.8	37.4	38.4	2.68	2.64	2.50
NEW JERSEY.....	139.20	138.29	135.55	40.0	40.2	41.2	3.48	3.44	3.29
Atlantic City.....	118.30	119.14	106.90	42.1	42.4	39.3	2.81	2.81	2.72
Camden <sup>2</sup> .....	146.88	145.20	136.27	40.8	40.9	40.8	3.60	3.55	3.34
Jersey City <sup>3</sup> .....	142.51	141.29	142.80	40.6	40.6	42.5	3.51	3.48	3.36
Newark <sup>3</sup> .....	135.87	134.21	134.34	38.6	38.9	40.1	3.52	3.45	3.35
Paterson-Clifton-Passaic <sup>3</sup> .....	133.86	133.04	137.19	38.8	38.9	41.7	3.45	3.42	3.29
Perth Amboy <sup>3</sup> .....	144.36	139.87	138.99	40.1	39.4	41.0	3.60	3.55	3.39
Trenton.....	132.74	135.14	129.04	38.7	39.4	40.2	3.43	3.43	3.21
NEW MEXICO.....	109.91	104.33	108.40	37.9	37.8	40.0	2.90	2.76	2.71
Albuquerque.....	116.75	115.49	121.51	41.4	40.1	41.9	2.82	2.88	2.90
NEW YORK.....	136.61	135.76	130.22	38.7	38.9	39.7	3.53	3.49	3.28
Albany-Schenectady-Troy.....	153.38	149.88	143.24	40.9	40.4	41.4	3.75	3.71	3.46
Binghamton.....	134.24	133.60	136.21	39.6	40.0	42.3	3.39	3.34	3.22
Buffalo.....	165.61	163.15	158.38	41.3	41.2	41.9	4.01	3.96	3.78
Elmira.....	126.43	126.68	124.00	38.9	39.1	40.0	3.25	3.24	3.10
Monroe County <sup>4</sup> .....	169.33	168.10	162.35	40.9	41.0	42.5	4.14	4.10	3.82
Nassau and Suffolk Counties <sup>5</sup> .....	138.29	135.24	128.95	39.4	39.2	39.8	3.51	3.45	3.24
New York-Northeastern New Jersey.....	(*)	131.41	128.12	(*)	38.2	39.3	(*)	3.44	3.26
New York SMSA <sup>3</sup> .....	129.06	127.88	122.24	37.3	37.5	38.2	3.46	3.41	3.20
New York City <sup>5</sup> .....	127.31	126.85	120.26	36.9	37.2	37.7	3.45	3.41	3.19
Rochester.....	163.19	161.54	156.71	40.9	41.0	42.7	3.99	3.94	3.67
Rockland County <sup>5</sup> .....	138.45	133.77	132.19	39.9	39.0	41.7	3.47	3.43	3.17
Syracuse.....	143.47	141.65	141.10	40.3	39.9	41.5	3.56	3.55	3.40
Utica-Rome.....	124.21	125.45	125.33	38.1	38.6	40.3	3.26	3.25	3.11
Westchester County <sup>5</sup> .....	133.60	130.52	129.56	38.5	38.5	39.5	3.47	3.39	3.28
NORTH CAROLINA.....	96.08	96.29	95.99	38.9	39.3	40.5	2.47	2.45	2.37
Asheville.....	90.48	89.01	92.29	37.7	37.4	40.3	2.40	2.38	2.29
Charlotte.....	104.52	104.12	100.70	40.2	40.2	41.1	2.60	2.59	2.45
Greensboro-Winston-Salem-High Point.....	104.05	104.22	102.31	37.7	38.6	39.5	2.76	2.70	2.59
Raleigh.....	99.57	99.04	97.75	39.2	39.3	40.9	2.54	2.52	2.39
NORTH DAKOTA.....	123.70	123.71	114.12	39.7	40.1	40.1	3.12	3.09	2.85
Fargo-Moorhead.....	139.57	140.86	122.15	40.2	40.9	38.6	3.47	3.44	3.16
OHIO.....	158.65	155.93	156.46	41.1	40.5	42.4	3.86	3.85	3.69
Akron.....	172.62	166.38	172.00	41.1	39.9	43.0	4.20	4.17	4.00
Canton.....	155.90	154.41	158.53	40.6	39.9	42.5	3.84	3.87	3.73
Cincinnati.....	149.69	144.47	144.16	40.9	39.8	42.4	3.66	3.63	3.40
Cleveland.....	159.14	155.96	161.03	40.7	40.3	42.6	3.91	3.87	3.78
Columbus.....	151.03	147.53	143.85	40.6	40.2	41.1	3.72	3.67	3.50
Dayton.....	175.91	170.89	175.44	41.1	40.4	43.0	4.28	4.23	4.08
Toledo.....	162.66	165.22	175.11	41.6	41.1	44.9	3.91	4.02	3.90
Youngstown-Warren.....	168.91	165.24	163.12	40.8	40.4	41.4	4.14	4.09	3.94
OKLAHOMA.....	127.30	124.74	125.63	40.8	40.5	41.6	3.12	3.08	3.02
Oklahoma City.....	123.93	120.69	122.72	40.5	39.7	41.6	3.06	3.04	2.95
Tulsa.....	141.59	141.10	139.11	41.4	41.5	41.9	3.42	3.40	3.32
OREGON.....	148.61	150.10	143.38	38.5	39.5	39.5	3.86	3.80	3.63
Eugene.....	159.16	159.49	153.50	40.5	41.0	41.6	3.93	3.89	3.69
Portland.....	146.29	148.58	143.47	37.8	39.1	39.2	3.87	3.80	3.66
PENNSYLVANIA.....	134.11	132.55	130.65	39.1	39.1	40.2	3.43	3.39	3.25
Allentown-Bethlehem-Easton.....	132.50	129.59	126.94	39.2	38.8	39.3	3.38	3.34	3.23
Altoona.....	107.91	109.92	109.65	37.6	38.3	39.3	2.87	2.87	2.79
Delaware Valley <sup>2</sup> .....	142.63	142.96	139.66	39.4	39.6	40.6	3.62	3.61	3.44
Erie.....	143.59	140.83	142.56	41.5	41.3	43.2	3.46	3.41	3.30
Harrisburg.....	121.99	124.31	120.88	39.1	40.1	40.7	3.12	3.10	2.97
Johnstown.....	137.26	126.38	128.59	37.3	35.5	37.6	3.68	3.56	3.42
Lancaster.....	120.20	122.98	119.43	38.9	39.8	40.9	3.09	3.09	2.92
Philadelphia.....	143.35	143.28	139.26	39.6	39.8	40.6	3.62	3.60	3.43
Pittsburgh.....	154.79	152.04	151.37	40.1	39.8	40.8	3.86	3.82	3.71
Reading.....	123.40	118.20	117.22	39.3	38.5	39.6	3.14	3.07	2.96
Scranton.....	101.67	101.84	103.33	35.8	36.5	38.7	2.84	2.79	2.67
Wilkes-Barre-Hazleton.....	97.93	98.26	94.90	35.1	35.6	36.5	2.79	2.76	2.60
York.....	121.80	124.20	121.25	40.6	41.4	42.1	3.00	3.00	2.88

See footnotes at end of table.

## ESTABLISHMENT DATA STATE AND AREA HOURS AND EARNINGS

**C-16: Gross hours and earnings of production workers on manufacturing payrolls,  
by State and selected areas--Continued**

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969	Sept. 1970 <sup>p</sup>	Aug. 1970	Sept. 1969
RHODE ISLAND . . . . .	\$111.93	\$110.37	\$109.34	39.0	39.0	40.2	\$2.87	\$2.83	\$2.72
Providence-Pawtucket-Warwick . . . . .	112.90	111.44	109.74	39.2	39.1	40.2	2.88	2.85	2.73
SOUTH CAROLINA . . . . .	100.84	101.25	100.94	39.7	40.5	41.2	2.54	2.50	2.45
Charleston . . . . .	134.42	125.96	121.40	43.5	41.3	42.3	3.09	3.05	2.87
Greenville . . . . .	97.61	98.89	100.50	39.2	40.2	41.7	2.49	2.46	2.41
SOUTH DAKOTA . . . . .	(*)	135.59	124.70	(*)	45.5	43.6	(*)	2.98	2.86
Sioux Falls . . . . .	(*)	162.32	146.14	(*)	48.6	46.1	(*)	3.34	3.17
TENNESSEE . . . . .	109.97	108.80	106.78	39.7	40.0	40.6	2.77	2.72	2.63
Chattanooga . . . . .	122.72	117.91	119.42	40.5	39.7	41.9	3.03	2.97	2.85
Knoxville . . . . .	126.96	127.72	116.91	39.8	41.2	39.9	3.19	3.10	2.93
Memphis . . . . .	125.51	124.64	120.30	40.1	40.6	41.2	3.13	3.07	2.92
Nashville . . . . .	118.99	120.40	116.85	39.4	40.0	41.0	3.02	3.01	2.85
TEXAS . . . . .	131.22	130.56	128.13	40.5	40.8	41.6	3.24	3.20	3.08
Amarillo . . . . .	115.31	115.71	108.54	39.9	39.9	40.2	2.89	2.90	2.70
Austin . . . . .	111.24	113.57	104.86	40.6	41.0	40.8	2.74	2.77	2.57
Beaumont-Port Arthur-Orange . . . . .	169.30	171.40	164.34	40.6	41.3	41.5	4.17	4.15	3.96
Corpus Christi . . . . .	156.65	155.32	145.95	40.9	41.2	41.7	3.83	3.77	3.50
Dallas . . . . .	119.56	121.39	123.31	39.2	39.8	41.8	3.05	3.05	2.95
El Paso . . . . .	90.39	90.64	84.40	39.3	41.2	40.0	2.30	2.20	2.11
Fort Worth . . . . .	142.54	139.33	140.58	41.8	41.1	42.6	3.41	3.39	3.30
Galveston-Texas City . . . . .	186.37	186.85	185.76	41.6	41.8	43.1	4.48	4.47	4.31
Houston . . . . .	155.08	153.87	151.79	41.8	41.7	43.0	3.71	3.69	3.53
Lubbock . . . . .	115.00	114.81	109.22	44.4	44.5	43.0	2.59	2.58	2.54
San Antonio . . . . .	107.43	106.75	103.91	41.8	41.7	41.9	2.57	2.56	2.48
Waco . . . . .	109.33	111.78	105.92	39.9	40.5	38.1	2.74	2.76	2.78
Wichita Falls . . . . .	103.07	101.27	98.81	41.9	41.0	41.0	2.46	2.47	2.41
UTAH . . . . .	134.49	136.46	127.83	38.1	39.1	39.7	3.53	3.49	3.22
Salt Lake City . . . . .	132.26	129.30	123.13	38.9	39.3	38.6	3.40	3.29	3.19
VERMONT . . . . .	121.77	122.18	119.43	41.0	41.7	42.2	2.97	2.93	2.83
Burlington . . . . .	147.84	147.84	130.94	44.0	44.8	43.5	3.36	3.30	3.01
Springfield . . . . .	131.05	131.43	134.08	40.2	41.2	41.9	3.26	3.19	3.20
VIRGINIA . . . . .	111.76	109.05	109.03	40.2	39.8	41.3	2.78	2.74	2.64
Lynchburg . . . . .	103.36	103.86	108.80	39.6	40.1	42.5	2.61	2.59	2.56
Norfolk-Portsmouth . . . . .	123.43	118.15	112.59	41.7	40.6	41.7	2.96	2.91	2.70
Richmond . . . . .	126.45	123.60	122.67	40.4	40.0	42.3	3.13	3.09	2.90
Roanoke . . . . .	99.00	102.21	105.58	39.6	40.4	42.4	2.50	2.53	2.49
WASHINGTON . . . . .	158.71	160.34	153.65	38.9	39.3	39.6	4.08	4.08	3.88
Seattle-Everett . . . . .	164.72	168.00	161.19	39.5	40.0	40.5	4.17	4.20	3.98
Spokane . . . . .	156.03	158.76	147.75	39.5	40.5	39.4	3.95	3.92	3.75
Tacoma . . . . .	156.62	159.54	151.32	38.2	39.2	38.8	4.10	4.07	3.90
WEST VIRGINIA . . . . .	139.35	135.59	130.65	39.7	39.3	40.2	3.51	3.45	3.25
Charleston . . . . .	173.04	165.42	158.95	42.0	42.2	42.5	4.12	3.92	3.74
Huntington-Ashland . . . . .	147.03	142.66	143.64	39.0	39.3	39.9	3.77	3.63	3.60
Wheeling . . . . .	143.56	139.74	133.65	40.9	39.7	40.5	3.51	3.52	3.30
WISCONSIN . . . . .	145.91	143.86	143.71	40.3	40.5	41.9	3.62	3.56	3.43
Green Bay . . . . .	153.29	148.74	142.53	43.4	42.6	42.9	3.53	3.49	3.32
Kenosha . . . . .	160.02	150.73	164.49	39.4	37.8	42.3	4.06	3.99	3.89
La Crosse . . . . .	124.87	117.16	114.00	42.1	40.5	39.9	2.96	2.89	2.86
Madison . . . . .	171.08	165.93	154.92	41.5	41.7	41.5	4.12	3.98	3.74
Milwaukee . . . . .	157.77	156.92	156.13	39.9	39.9	41.4	3.96	3.93	3.77
Racine . . . . .	148.67	147.39	159.79	39.4	39.7	43.0	3.78	3.71	3.72
WYOMING . . . . .	131.06	132.57	132.33	38.1	39.4	40.1	3.44	3.39	3.30
Casper . . . . .	165.78	154.42	151.18	39.1	38.8	40.1	4.24	3.98	3.77
Cheyenne . . . . .	92.70	103.99	123.93	30.0	31.5	37.9	3.09	3.46	3.27

<sup>1</sup> Data are not comparable prior to June 1970.

<sup>2</sup> Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.

<sup>3</sup> Area included in New York-Northeastern New Jersey Standard Consolidated Area.

<sup>4</sup> Subarea of Rochester Standard Metropolitan Statistical Area.

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

\* Not available.

<sup>p</sup> = preliminary.

SOURCE: Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-1: Labor turnover rates in manufacturing  
1959 to date**

(Per 100 employees)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
Total accessions													
1959.....	3.8	3.7	4.1	4.1	4.2	5.4	4.4	5.2	5.1	3.9	3.4	3.6	4.2
1960.....	4.0	3.5	3.3	3.4	3.9	4.7	3.9	4.9	4.8	3.5	2.9	2.3	3.8
1961.....	3.7	3.2	4.0	4.0	4.3	5.0	4.4	5.3	4.7	4.3	3.4	2.6	4.1
1962.....	4.1	3.6	3.8	4.0	4.3	5.0	4.6	5.1	4.9	3.9	3.0	2.4	4.1
1963.....	3.6	3.3	3.5	3.9	3.9	4.8	4.3	4.8	4.8	3.9	2.9	2.5	3.9
1964.....	3.6	3.4	3.7	3.8	3.9	5.1	4.4	5.1	4.8	4.0	3.2	2.6	4.0
1965.....	3.8	3.5	4.0	3.8	4.1	5.6	4.5	5.4	5.5	4.5	3.9	3.1	4.3
1966.....	4.6	4.2	4.9	4.6	5.1	6.7	5.1	6.4	6.1	5.1	3.9	2.9	5.0
1967.....	4.3	3.6	3.9	3.9	4.6	5.9	4.7	5.5	5.3	4.7	3.7	2.8	4.4
1968.....	4.2	3.8	4.0	4.3	4.7	5.9	5.0	5.8	5.7	5.1	3.9	3.1	4.6
1969.....	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9	4.7
1970.....	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.6p				
New hires													
1959.....	2.0	2.1	2.4	2.5	2.7	3.7	3.0	3.5	3.5	2.6	1.9	1.5	2.6
1960.....	2.2	2.2	2.0	2.0	2.3	3.0	2.4	2.9	2.8	2.1	1.5	1.0	2.2
1961.....	1.5	1.4	1.6	1.8	2.1	2.9	2.5	3.1	3.0	2.7	2.0	1.4	2.2
1962.....	2.2	2.1	2.2	2.4	2.8	3.5	2.9	3.2	3.1	2.5	1.8	1.2	2.5
1963.....	1.9	1.8	2.0	2.3	2.5	3.3	2.7	3.2	3.2	2.6	1.8	1.4	2.4
1964.....	2.0	2.0	2.2	2.4	2.5	3.6	2.9	3.4	3.5	2.8	2.2	1.6	2.6
1965.....	2.4	2.4	2.8	2.6	3.0	4.3	3.2	3.9	4.0	3.5	2.9	2.2	3.1
1966.....	3.2	3.1	3.7	3.6	4.1	5.6	3.9	4.8	4.7	4.2	3.1	2.1	3.8
1967.....	3.0	2.7	2.8	2.8	3.3	4.6	3.3	4.0	4.1	3.7	2.8	2.0	3.3
1968.....	3.0	2.7	2.9	3.2	3.6	4.7	3.7	4.3	4.6	4.0	2.9	2.2	3.5
1969.....	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1	3.7
1970.....	2.9	2.5	2.6	2.6	2.8	3.9	2.9	3.5	3.3p				
Total separations													
1959.....	2.7	3.1	3.3	3.6	3.5	3.6	4.0	4.6	5.3	5.5	4.7	3.9	4.1
1960.....	3.6	3.5	4.0	4.2	3.9	4.0	4.4	4.8	5.3	4.7	4.5	4.8	4.3
1961.....	4.7	3.9	3.8	3.4	3.5	3.6	4.1	4.2	5.1	4.2	4.0	4.0	4.0
1962.....	3.9	3.4	3.6	3.6	3.8	3.8	4.4	5.1	5.0	4.4	4.0	3.8	4.1
1963.....	4.0	3.2	3.5	3.6	3.6	3.4	4.1	4.8	4.9	4.1	3.9	3.7	3.9
1964.....	4.0	3.3	3.5	3.5	3.6	3.5	4.4	4.3	5.1	4.2	3.6	3.7	3.9
1965.....	3.7	3.1	3.4	3.7	3.6	3.6	4.3	5.1	5.6	4.5	3.9	4.1	4.1
1966.....	4.0	3.6	4.1	4.3	4.3	4.4	5.3	5.8	6.6	4.8	4.3	4.2	4.6
1967.....	4.5	4.0	4.6	4.3	4.2	4.3	4.8	5.3	6.2	4.7	4.0	3.9	4.6
1968.....	4.4	3.9	4.1	4.1	4.3	4.1	5.0	6.0	6.3	5.0	4.1	3.8	4.6
1969.....	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.3	4.3	4.2	4.9
1970.....	4.8	4.3	4.5	4.8	4.6	4.4	5.3	5.6	6.0p				
Quits													
1959.....	1.1	1.0	1.2	1.4	1.5	1.5	1.6	2.1	2.6	1.7	1.2	1.0	1.5
1960.....	1.2	1.2	1.2	1.4	1.3	1.4	1.4	1.8	2.3	1.3	.9	.7	1.3
1961.....	.9	.8	.9	1.0	1.1	1.2	1.2	1.7	2.3	1.4	1.1	.9	1.2
1962.....	1.1	1.1	1.2	1.3	1.5	1.5	1.4	2.1	2.4	1.5	1.1	.8	1.4
1963.....	1.1	1.0	1.2	1.3	1.4	1.4	1.4	2.1	2.4	1.5	1.1	.8	1.4
1964.....	1.2	1.1	1.2	1.3	1.5	1.4	1.5	2.1	2.7	1.7	1.2	1.0	1.5
1965.....	1.4	1.3	1.5	1.7	1.7	1.7	1.8	2.6	3.5	2.2	1.7	1.4	1.9
1966.....	1.9	1.8	2.3	2.5	2.5	2.5	2.5	3.6	4.5	2.8	2.1	1.7	2.6
1967.....	2.1	1.9	2.1	2.2	2.2	2.3	2.1	3.2	4.0	2.5	1.9	1.5	2.3
1968.....	2.0	1.9	2.1	2.2	2.4	2.3	2.4	3.8	4.2	2.8	2.1	1.6	2.5
1969.....	2.3	2.1	2.4	2.6	2.7	2.6	2.6	4.0	4.4	2.9	2.1	1.6	2.7
1970.....	2.1	1.9	1.9	2.1	2.1	2.1	2.1	3.0	3.2p				
Layoffs													
1959.....	2.1	1.5	1.6	1.6	1.4	1.4	1.8	1.8	2.0	3.2	2.9	2.4	2.0
1960.....	1.8	1.7	2.2	2.2	1.9	2.0	2.4	2.4	2.4	2.8	3.1	3.6	2.4
1961.....	3.2	2.6	2.3	1.9	1.8	1.8	2.3	1.8	2.1	2.0	2.2	2.6	2.2
1962.....	2.1	1.7	1.6	1.6	1.6	1.6	2.2	2.2	1.9	2.2	2.3	2.5	2.0
1963.....	2.2	1.6	1.7	1.6	1.5	1.4	2.0	1.9	1.8	1.9	2.1	2.3	1.8
1964.....	2.0	1.6	1.6	1.4	1.4	1.3	2.1	1.4	1.5	1.8	1.7	2.1	1.7
1965.....	1.6	1.2	1.2	1.3	1.1	1.1	1.8	1.6	1.3	1.4	1.5	1.9	1.4
1966.....	1.3	1.0	1.0	1.0	.9	1.0	2.0	1.1	1.0	1.1	1.3	1.7	1.2
1967.....	1.5	1.3	1.5	1.3	1.1	1.1	1.9	1.2	1.2	1.3	1.3	1.6	1.4
1968.....	1.5	1.2	1.1	1.0	1.0	.9	1.8	1.3	1.1	1.2	1.2	1.4	1.2
1969.....	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8	1.2
1970.....	1.7	1.6	1.6	1.7	1.5	1.5	2.3	1.7	1.8p				

p = preliminary.

**ESTABLISHMENT DATA  
LABOR TURNOVER**
**D-2: Labor turnover rates, by industry**

(Per 100 employees)

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970
-	<b>MANUFACTURING</b> .....	4.6	5.1	3.3	3.5	6.0	5.6	3.2	3.0	1.8	1.7
19,24,25,32-39	<b>DURABLE GOODS</b> .....	3.9	4.5	2.7	2.8	5.4	5.3	2.6	2.4	1.7	1.8
20-23,26-31	<b>NONDURABLE GOODS</b> .....	5.5	6.0	4.2	4.5	6.9	6.1	4.0	3.7	2.0	1.5
	<i>Durable Goods</i>										
19	<b>ORDNANCE AND ACCESSORIES</b> .....	-	2.1	-	1.1	-	4.2	-	1.6	-	1.8
192	Ammunition, except for small arms .....	-	1.9	-	.9	-	4.5	-	1.5	-	2.1
24	<b>LUMBER AND WOOD PRODUCTS</b> .....	5.3	6.2	4.5	5.2	7.0	6.9	4.8	4.7	1.1	1.3
242	Sawmills and planing mills .....	-	5.5	-	4.9	-	6.0	-	4.4	-	.7
2421	Sawmills and planing mills, general .....	-	5.3	-	4.8	-	5.6	-	4.3	-	.5
243	Millwork, plywood & related products .....	-	5.8	-	5.2	-	6.6	-	4.6	-	1.1
2431	Millwork .....	-	6.1	-	5.5	-	6.4	-	4.7	-	.8
2432	Veneer and plywood .....	-	5.1	-	4.4	-	5.7	-	3.8	-	1.2
244	Wooden containers .....	-	6.7	-	4.8	-	10.7	-	6.1	-	3.6
2441,2	Wooden boxes, shooks, and crates .....	-	5.5	-	3.8	-	10.4	-	5.3	-	4.3
249	Miscellaneous wood products .....	-	7.1	-	5.4	-	7.9	-	5.1	-	1.4
25	<b>FURNITURE AND FIXTURES</b> .....	6.4	6.8	5.4	5.4	6.8	6.4	4.4	4.4	1.1	.9
251	Household furniture .....	-	7.1	-	5.8	-	6.5	-	4.7	-	.7
2511	Wood household furniture .....	-	7.0	-	5.6	-	6.7	-	4.8	-	.7
2512	Upholstered household furniture .....	-	5.6	-	4.6	-	5.0	-	3.7	-	.5
2515	Mattresses and bedsprings .....	-	9.1	-	8.0	-	7.9	-	5.7	-	.5
252	Office furniture .....	-	4.2	-	2.8	-	5.7	-	2.6	-	2.2
32	<b>STONE, CLAY, AND GLASS PRODUCTS</b> .....	4.6	4.7	3.7	3.6	6.2	5.7	3.6	3.4	1.5	1.3
321	Flat glass .....	-	4.6	-	.8	-	5.3	-	.8	-	3.6
322	Glass and glassware, pressed or blown .....	-	4.9	-	3.8	-	5.6	-	3.5	-	1.0
3221	Glass containers .....	-	5.6	-	4.9	-	6.6	-	4.6	-	.9
3229	Pressed and blown glass, n e c .....	-	4.0	-	2.2	-	4.3	-	1.9	-	1.1
324	Cement, hydraulic .....	-	2.4	-	.9	-	3.4	-	1.5	-	1.2
325	Structural clay products .....	-	5.5	-	4.8	-	7.7	-	5.5	-	1.1
3251	Brick and structural clay tile .....	-	6.7	-	6.0	-	9.3	-	6.7	-	1.5
326	Pottery and related products .....	-	4.5	-	3.4	-	5.7	-	3.2	-	1.4
3291	Abrasive products .....	-	1.3	-	.7	-	3.3	-	1.2	-	1.6
33	<b>PRIMARY METAL INDUSTRIES</b> .....	2.8	3.3	1.9	1.9	4.9	4.5	2.5	2.1	1.5	1.4
331	Blast furnace and basic steel products .....	-	2.4	-	1.4	-	3.5	-	1.9	-	.7
3312	Blast furnaces and steel mills .....	-	2.4	-	1.3	-	3.5	-	1.8	-	.7
332	Iron and steel foundries .....	-	5.2	-	3.4	-	6.0	-	3.1	-	1.6
3321	Gray iron foundries .....	-	5.4	-	3.4	-	6.4	-	3.2	-	1.7
3322	Malleable iron foundries .....	-	8.2	-	5.5	-	6.1	-	3.5	-	1.1
3323	Steel foundries .....	-	3.9	-	2.8	-	5.3	-	2.7	-	1.4
333,4	Nonferrous metals .....	-	2.8	-	2.2	-	4.3	-	2.8	-	.4
335	Nonferrous rolling and drawing .....	-	3.9	-	1.4	-	5.0	-	1.5	-	2.7
3351	Copper rolling and drawing .....	-	1.9	-	1.0	-	2.7	-	1.2	-	.7
3352	Aluminum rolling and drawing .....	-	1.8	-	1.1	-	3.9	-	1.5	-	1.7
3357	Nonferrous wire drawing, and insulating .....	-	7.5	-	2.0	-	7.7	-	1.6	-	5.1
336	Nonferrous foundries .....	-	4.8	-	2.9	-	6.4	-	2.7	-	2.6
3361	Aluminum castings .....	-	5.1	-	2.9	-	5.8	-	2.8	-	1.9
3362,9	Other nonferrous castings .....	-	4.4	-	3.0	-	7.1	-	2.6	-	3.4
339	Miscellaneous primary metal products .....	-	2.8	-	1.5	-	4.4	-	1.8	-	1.8
3391	Iron and steel forgings .....	-	3.1	-	1.7	-	4.1	-	1.8	-	1.6

See footnotes at end of table.



**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2: Labor turnover rates, by industry--Continued**

(Per 100 employees)

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970
<i>Durable Goods--Continued</i>											
34	<b>FABRICATED METAL PRODUCTS</b>	-	5.5	-	3.8	-	5.7	-	3.0	-	1.5
341	Metal cans	-	4.5	-	2.6	-	7.6	-	3.1	-	2.6
342	Cutlery, hand tools, and hardware	-	6.3	-	3.1	-	4.5	-	2.2	-	1.3
3421.3.5	Cutlery and hand tools, incl. saws	-	3.7	-	2.8	-	3.9	-	2.5	-	1.6
3429	Hardware, n e c	-	8.1	-	3.4	-	4.9	-	1.9	-	1.8
343	Plumbing and heating, except electric	-	4.0	-	3.3	-	6.7	-	3.0	-	2.6
3431.2	Sanitary ware & plumbers' brass goods	-	4.0	-	3.4	-	6.3	-	3.2	-	1.9
3433	Heating equipment, except electric	-	4.0	-	3.2	-	7.0	-	2.8	-	3.1
344	Fabricated structural metal products	-	5.1	-	4.4	-	5.7	-	3.4	-	1.1
3441	Fabricated structural steel	-	6.2	-	5.3	-	6.6	-	3.8	-	1.5
3443	Fabricated plate work (boiler shops)	-	3.1	-	2.6	-	3.7	-	2.3	-	.5
3446.9	Architectural and misc. metal work	-	5.6	-	4.6	-	6.5	-	3.9	-	1.1
345	Screw machine products, bolts, etc.	-	3.1	-	2.6	-	5.2	-	2.4	-	1.7
3452	Bolts, nuts, rivets, and washers	-	2.4	-	2.1	-	4.5	-	1.6	-	1.8
346	Metal stampings	-	8.0	-	3.8	-	5.3	-	2.3	-	1.8
348	Misc. fabricated wire products	-	5.4	-	4.0	-	6.4	-	3.5	-	1.7
349	Misc. fabricated metal products	-	3.8	-	3.2	-	4.9	-	2.9	-	.8
3494.8	Valves, pipe, and pipe fittings	-	3.6	-	3.0	-	4.5	-	2.7	-	.8
35	<b>MACHINERY, EXCEPT ELECTRICAL</b>	2.4	2.8	1.6	1.6	4.7	4.6	1.8	1.7	2.0	2.0
351	Engines and turbines	-	4.6	-	1.2	-	4.5	-	1.0	-	2.4
3511	Steam engines and turbines	-	1.8	-	1.2	-	1.7	-	.8	-	(1)
3519	Internal combustion engines, n e c	-	6.2	-	1.3	-	6.1	-	1.2	-	3.8
352	Farm machinery	-	4.0	-	1.6	-	4.9	-	1.8	-	2.0
353	Construction and related machinery	-	2.3	-	1.6	-	3.9	-	1.8	-	1.3
3531.2	Construction and mining machinery	-	1.9	-	1.1	-	3.7	-	1.3	-	1.4
3533	Oil field machinery	-	2.9	-	2.5	-	4.4	-	2.8	-	.6
3535.6	Conveyors, hoists, cranes, monorails	-	2.2	-	1.9	-	3.4	-	2.0	-	.6
354	Metal working machinery	-	2.4	-	1.1	-	5.6	-	1.4	-	3.3
3541	Machine tools, metal cutting types	-	1.6	-	.7	-	6.3	-	1.1	-	4.5
3545	Machine tool accessories	-	1.1	-	.7	-	4.1	-	1.4	-	2.1
3542.8	Misc. metal working machinery	-	1.9	-	1.2	-	3.7	-	1.5	-	1.4
355	Special industry machinery	-	2.0	-	1.5	-	3.6	-	1.5	-	1.3
3551	Food products machinery	-	2.1	-	1.6	-	3.1	-	1.6	-	.8
3552	Textile machinery	-	2.5	-	1.9	-	3.8	-	1.7	-	1.2
356	General industrial machinery	-	2.7	-	1.8	-	4.2	-	1.8	-	1.6
3561	Pumps and compressors	-	2.6	-	1.8	-	3.8	-	1.9	-	.9
3562	Ball and roller bearings	-	3.3	-	1.2	-	5.6	-	1.3	-	3.5
3566	Power transmission equipment	-	2.3	-	1.7	-	3.8	-	1.9	-	1.1
357	Office and computing machines	-	1.8	-	1.0	-	3.1	-	1.1	-	1.1
3573	Electronic computing equipment	-	1.2	-	.8	-	2.9	-	1.0	-	1.1
358	Service industry machines	-	3.1	-	2.6	-	6.0	-	2.6	-	2.3
3585	Refrigeration machinery	-	3.0	-	2.4	-	6.0	-	2.7	-	2.2
36	<b>ELECTRICAL EQUIPMENT AND SUPPLIES</b>	-	3.7	-	2.3	-	4.7	-	2.1	-	1.7
361	Electric test & distributing equipment	-	3.0	-	2.0	-	3.5	-	2.0	-	.7
3611	Electric measuring instruments	-	2.4	-	1.6	-	4.2	-	2.1	-	1.2
3612	Transformers	-	3.2	-	2.4	-	4.0	-	2.1	-	.9
3613	Switchgear and switchboard apparatus	-	3.4	-	2.2	-	2.7	-	1.8	-	.2
362	Electrical industrial apparatus	-	2.3	-	1.5	-	3.7	-	1.9	-	1.1
3621	Motors and generators	-	2.7	-	1.7	-	3.9	-	1.8	-	1.3
3622	Industrial controls	-	1.9	-	1.2	-	3.8	-	2.2	-	1.0
363	Household appliances	-	4.4	-	3.1	-	5.4	-	2.5	-	1.8
3632	Household refrigerators and freezers	-	2.8	-	1.2	-	7.0	-	2.1	-	3.9
3633	Household laundry equipment	-	6.1	-	4.5	-	3.8	-	2.7	-	.1
3634	Electric housewares and fans	-	5.8	-	4.8	-	5.8	-	3.0	-	1.9
364	Electric lighting and wiring equipment	-	5.8	-	3.4	-	5.2	-	2.8	-	1.3
3641	Electric lamps	-	5.1	-	2.8	-	3.2	-	1.8	-	.5
3642	Lighting fixtures	-	8.9	-	4.9	-	6.4	-	3.3	-	1.9
3643.4	Wiring devices	-	3.9	-	2.5	-	5.3	-	2.8	-	1.3
365	Radio and TV receiving equipment	-	8.9	-	5.6	-	6.9	-	2.5	-	3.0
366	Communication equipment	-	2.2	-	1.4	-	4.2	-	1.7	-	1.7
3661	Telephone and telegraph apparatus	-	2.2	-	1.9	-	3.2	-	1.9	-	.6
3662	Radio and TV communication equipment	-	2.1	-	1.1	-	4.8	-	1.6	-	2.4
367	Electronic components and accessories	-	3.7	-	1.7	-	5.6	-	2.3	-	2.2
3671-3	Electron tubes	-	5.2	-	2.0	-	5.4	-	2.3	-	1.8
3674.9	Other electronic components	-	3.4	-	1.6	-	5.7	-	2.3	-	2.3
369	Misc. electrical equipment & supplies	-	4.2	-	3.0	-	4.1	-	2.1	-	1.1
3694	Engine electrical equipment	-	3.3	-	1.9	-	3.3	-	1.5	-	1.0

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**
**D-2: Labor turnover rates, by industry--Continued**

		(Per 100 employees)									
SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970
<i>Durable Goods--Continued</i>											
37	<b>TRANSPORTATION EQUIPMENT</b> .....	-	5.8	-	2.3	-	5.9	-	1.7	-	3.3
371	Motor vehicles and equipment .....	-	9.0	-	2.7	-	6.9	-	1.5	-	4.5
3711	Motor vehicles .....	-	11.9	-	3.1	-	9.0	-	1.4	-	6.7
3712	Passenger car bodies .....	-	9.3	-	1.4	-	12.7	-	.9	-	10.3
3713	Truck and bus bodies .....	-	4.8	-	4.4	-	6.1	-	3.0	-	1.7
3714	Motor vehicle parts and accessories .....	-	7.2	-	2.4	-	4.6	-	1.4	-	2.3
372	Aircraft and parts .....	-	1.4	-	.7	-	3.6	-	.9	-	2.2
3721	Aircraft .....	-	1.1	-	.5	-	4.0	-	.9	-	2.8
3722	Aircraft engines and engine parts .....	-	1.4	-	.6	-	2.1	-	.7	-	.8
3723,9	Other aircraft parts and equipment .....	-	2.5	-	1.5	-	4.3	-	1.3	-	2.4
373	Ship and boat building and repairing .....	-	7.1	-	3.7	-	8.1	-	3.1	-	3.6
3731	Ship building and repairing .....	-	7.2	-	3.7	-	7.9	-	2.8	-	3.8
374	Railroad equipment .....	-	4.9	-	2.4	-	5.9	-	1.8	-	3.0
375,9	Other transportation equipment .....	-	9.2	-	7.7	-	9.3	-	5.8	-	1.4
38	<b>INSTRUMENTS AND RELATED PRODUCTS</b> .....	2.8	2.8	2.0	1.9	4.5	4.2	2.4	1.9	1.2	1.2
381	Engineering & scientific instruments .....	-	1.8	-	1.1	-	4.1	-	1.3	-	1.8
382	Mechanical measuring & control devices .....	-	2.4	-	1.7	-	4.4	-	2.1	-	1.3
3821	Mechanical measuring devices .....	-	1.9	-	1.6	-	4.1	-	2.1	-	1.3
3822	Automatic temperature controls .....	-	3.4	-	1.9	-	4.9	-	2.1	-	1.5
383,5	Optical and ophthalmic goods .....	-	3.9	-	2.8	-	4.6	-	2.5	-	1.1
384	Medical instruments and supplies .....	-	3.6	-	3.1	-	4.0	-	2.6	-	.6
386	Photographic equipment and supplies .....	-	2.3	-	1.2	-	2.9	-	1.0	-	.4
387	Watches, clocks, and watchcases .....	-	4.2	-	2.5	-	8.4	-	3.3	-	3.6
39	<b>MISCELLANEOUS MANUFACTURING INDUSTRIES</b> .....	5.6	7.7	4.5	5.7	6.2	6.8	3.9	4.0	1.4	1.6
391	Jewelry, silverware, and plated ware .....	-	4.7	-	3.8	-	4.7	-	2.9	-	1.2
394	Toys and sporting goods .....	-	12.0	-	9.3	-	10.1	-	6.1	-	2.1
3941-3	Games, toys, dolls, & play vehicles .....	-	15.2	-	12.8	-	12.4	-	7.9	-	2.2
3949	Sporting and athletic goods, n e c .....	-	7.0	-	4.0	-	6.4	-	3.3	-	1.9
395	Pens, pencils, office and art supplies .....	-	4.6	-	3.8	-	4.2	-	2.7	-	.7
396	Costume jewelry and notions .....	-	6.9	-	4.5	-	6.0	-	3.8	-	1.1
393,9	Other manufacturing industries .....	-	6.3	-	4.3	-	5.9	-	3.2	-	1.6
<i>Nondurable Goods</i>											
20	<b>FOOD AND KINDRED PRODUCTS</b> .....	8.8	10.1	6.5	7.9	10.6	8.2	5.7	4.9	3.9	2.3
201	Meat products .....	-	8.4	-	5.7	-	8.7	-	5.3	-	2.4
2011	Meat packing plants .....	-	7.4	-	3.3	-	7.6	-	2.7	-	4.1
2015	Poultry dressing plants .....	-	12.9	-	11.4	-	13.2	-	11.6	-	.4
204	Grain mill products .....	-	4.3	-	3.5	-	5.2	-	3.4	-	1.1
2041	Flour and other grain mill products .....	-	3.9	-	3.2	-	4.5	-	3.0	-	.6
2042	Prepared feeds for animals and fowls .....	-	4.3	-	3.9	-	5.6	-	3.7	-	1.2
205	Bakery products .....	-	4.2	-	3.9	-	4.8	-	3.4	-	.6
2051	Bread, cake, and related products .....	-	3.9	-	3.7	-	4.6	-	3.4	-	.5
2052	Cookies and crackers .....	-	5.7	-	4.6	-	5.6	-	3.4	-	1.0
207	Confectionery and related products .....	-	10.8	-	6.9	-	7.8	-	5.0	-	1.9
2071	Confectionery products .....	-	12.4	-	7.7	-	8.4	-	5.5	-	2.0
208	Beverages .....	-	5.9	-	4.3	-	6.3	-	3.9	-	1.6
2082	Malt liquors .....	-	3.3	-	1.7	-	4.6	-	1.0	-	3.2
21	<b>TOBACCO MANUFACTURES</b> .....	5.5	12.4	4.4	9.6	6.0	6.0	3.1	2.9	1.7	2.1
211	Cigarettes .....	-	2.5	-	2.2	-	2.4	-	1.5	-	(1)
212	Cigars .....	-	6.4	-	4.9	-	7.1	-	6.0	-	.5

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**

**D-2: Labor turnover rates, by industry--Continued**

(Per 100 employees)

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970
	<i>Nondurable Goods--Continued</i>										
22	<b>TEXTILE MILL PRODUCTS</b>	5.9	5.5	4.7	4.3	6.7	6.6	4.7	4.5	0.9	1.0
221	Weaving mills, cotton	-	5.6	-	4.5	-	6.4	-	4.9	-	.2
222	Weaving mills, synthetics	-	5.0	-	3.9	-	5.7	-	4.1	-	.7
223	Weaving and finishing mills, wool	-	4.7	-	2.9	-	9.5	-	3.9	-	4.5
224	Narrow fabric mills	-	4.7	-	3.6	-	5.5	-	3.3	-	1.3
225	Knitting mills	-	4.6	-	3.7	-	6.3	-	4.4	-	1.1
2251	Women's hosiery, except socks	-	3.6	-	3.1	-	5.3	-	3.9	-	.7
2252	Hosiery, n e c	-	5.0	-	4.4	-	5.8	-	5.1	-	.2
2254	Knit underwear mills	-	3.6	-	2.6	-	4.7	-	3.7	-	.6
226	Textile finishing, except wool	-	4.9	-	3.9	-	5.6	-	3.7	-	.8
227	Floor covering mills	-	5.8	-	5.0	-	4.9	-	3.5	-	.3
228	Yarn and thread mills	-	7.7	-	6.1	-	8.6	-	6.2	-	1.0
229	Miscellaneous textile goods	-	5.7	-	3.7	-	7.0	-	3.4	-	2.2
23	<b>APPAREL AND OTHER TEXTILE PRODUCTS</b>	5.9	6.9	4.1	4.3	7.1	6.9	3.7	3.9	2.5	2.0
231	Men's and boys' suits and coats	-	5.1	-	1.6	-	6.0	-	2.2	-	3.0
232	Men's and boys' furnishings	-	6.5	-	5.1	-	6.9	-	5.2	-	.8
2321	Men's and boys' shirts and nightwear	-	6.4	-	5.0	-	7.0	-	5.4	-	.6
2327	Men's and boys' separate trousers	-	6.4	-	5.1	-	6.6	-	5.5	-	.3
2328	Men's and boys' work clothing	-	5.9	-	5.0	-	6.8	-	5.5	-	.4
234	Women's and children's undergarments	-	7.0	-	4.7	-	6.2	-	4.5	-	.8
2341	Women's and children's underwear	-	7.7	-	5.5	-	6.4	-	4.9	-	.6
2342	Corsets and allied garments	-	5.3	-	2.8	-	5.7	-	3.4	-	1.3
26	<b>PAPER AND ALLIED PRODUCTS</b>	3.4	3.5	2.8	2.9	5.1	4.8	3.3	2.9	.9	1.0
261,2,6	Paper and pulp mills	-	1.8	-	1.3	-	3.6	-	2.1	-	.9
263	Paperboard mills	-	2.5	-	1.9	-	3.4	-	2.0	-	.6
264	Misc. converted paper products	-	4.1	-	3.5	-	5.4	-	3.0	-	1.3
2643	Bags, except textile bags	-	4.9	-	4.0	-	5.7	-	3.6	-	.6
265	Paperboard containers and boxes	-	5.0	-	4.2	-	5.9	-	3.8	-	.9
2651,2	Folding and setup paperboard boxes	-	5.7	-	5.1	-	5.9	-	3.8	-	.7
2653	Corrugated and solid fiber boxes	-	4.5	-	3.9	-	5.1	-	3.8	-	.4
27	<b>PRINTING AND PUBLISHING</b>	3.7	3.4	3.1	2.9	4.4	4.4	2.8	2.8	.8	.9
28	<b>CHEMICALS AND ALLIED PRODUCTS</b>	2.3	2.1	1.9	1.7	3.7	3.2	2.2	1.8	.7	.6
281	Industrial chemicals	-	1.4	-	1.1	-	2.4	-	1.4	-	.3
282	Plastics materials and synthetics	-	1.4	-	.9	-	2.5	-	1.3	-	.6
2821	Plastics materials and resins	-	1.7	-	1.3	-	2.8	-	1.8	-	.4
2823,4	Synthetic fibers	-	1.2	-	.5	-	2.3	-	1.0	-	.9
283	Drugs	-	1.8	-	1.6	-	3.3	-	1.7	-	.8
2834	Pharmaceutical preparations	-	2.0	-	1.7	-	3.3	-	1.8	-	.9
284	Soap, cleaners, and toilet goods	-	4.4	-	3.8	-	4.8	-	2.9	-	.9
2841	Soap and other detergents	-	2.9	-	2.4	-	3.5	-	1.7	-	1.0
2844	Toilet preparations	-	6.2	-	5.6	-	5.6	-	3.5	-	1.0
285	Paints and allied products	-	2.2	-	2.0	-	3.9	-	2.4	-	.6
286,9	Other chemical products	-	2.5	-	1.6	-	3.9	-	2.1	-	.6
29	<b>PETROLEUM AND COAL PRODUCTS</b>	2.2	2.4	2.0	2.0	3.6	3.5	2.1	1.9	.5	.6
291	Petroleum refining	-	1.4	-	1.1	-	2.5	-	1.2	-	.5
295,9	Other petroleum and coal products	-	6.1	-	5.7	-	7.2	-	4.7	-	.9
30	<b>RUBBER AND PLASTICS PRODUCTS, N E C</b>	5.3	6.2	4.3	4.1	7.3	6.1	4.1	3.6	1.8	1.2
301	Tires and inner tubes	-	1.9	-	1.1	-	2.4	-	1.2	-	.4
302,3,6	Other rubber products	-	7.3	-	3.3	-	5.4	-	3.1	-	1.0
307	Miscellaneous plastics products	-	7.1	-	5.8	-	8.0	-	4.9	-	1.6

See footnotes at end of table.

**ESTABLISHMENT DATA  
LABOR TURNOVER**
**D-2: Labor turnover rates, by industry--Continued**

(Per 100 employees)

SIC Code	Industry	Accession rates				Separation rates					
		Total		New hires		Total		Quits		Layoffs	
		Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970	Sept. 1970 <sup>P</sup>	Aug. 1970
	<i>Nondurable Goods--Continued</i>										
31	LEATHER AND LEATHER PRODUCTS .....	6.5	6.2	4.9	4.7	8.8	8.3	5.1	4.8	2.5	2.2
311	Leather tanning and finishing .....	-	4.5	-	3.4	-	5.9	-	3.4	-	1.9
314	Footwear, except rubber .....	-	5.8	-	4.3	-	8.4	-	4.8	-	2.3
	<b>NONMANUFACTURING</b>										
10	METAL MINING .....	4.3	3.2	3.7	2.6	6.8	4.4	5.2	3.4	.6	.2
101	Iron ores .....	-	2.5	-	1.4	-	2.7	-	1.7	-	.1
102	Copper ores .....	-	3.0	-	2.5	-	4.5	-	3.4	-	.1
11,12	COAL MINING .....	2.4	2.3	2.0	1.8	1.8	2.2	1.3	1.5	.1	.1
12	Bituminous coal and lignite mining .....	2.4	2.3	2.1	1.9	1.8	2.2	1.3	1.5	(1)	.1
	<b>COMMUNICATION:</b>										
481	Telephone communication .....	-	2.0	-	-	-	3.5	-	2.5	-	.5
482	Telegraph communication <sup>2</sup> .....	-	2.3	-	-	-	3.3	-	2.3	-	.4

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

<sup>2</sup> Data relate to all employees except messengers.  
p=preliminary.

**ESTABLISHMENT DATA** 110  
**SEASONALLY ADJUSTED LABOR TURNOVER**

**D-3: Labor turnover rates in manufacturing, 1959 to date**  
**seasonally adjusted**

(Per 100 employees)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Total accessions</b>												
1959.....	4.0	4.3	4.6	4.3	4.1	4.2	4.1	4.1	4.0	3.8	4.2	5.6
1960.....	4.2	4.1	3.7	3.6	3.8	3.7	3.6	3.9	3.8	3.5	3.6	3.6
1961.....	3.9	3.7	4.4	4.2	4.2	4.0	4.0	4.1	3.8	4.3	4.3	4.1
1962.....	4.3	4.2	4.1	4.2	4.2	4.0	4.2	4.0	4.0	3.9	3.8	3.8
1963.....	3.8	3.9	3.8	4.1	3.8	3.8	3.9	3.8	3.9	3.9	3.6	4.0
1964.....	3.8	4.0	4.0	4.0	3.9	4.0	4.0	4.0	3.9	3.9	4.0	4.1
1965.....	4.0	4.1	4.3	4.1	4.1	4.3	4.1	4.3	4.5	4.4	4.8	4.9
1966.....	4.9	5.0	5.3	5.0	5.1	5.1	4.7	5.1	5.0	4.9	4.8	4.6
1967.....	4.6	4.3	4.2	4.2	4.6	4.4	4.4	4.4	4.3	4.5	4.5	4.4
1968.....	4.5	4.6	4.3	4.7	4.7	4.4	4.7	4.7	4.6	4.8	4.8	4.9
1969.....	4.9	4.7	4.8	4.9	4.8	4.9	4.7	4.5	4.8	4.7	4.4	4.6
1970.....	4.2	4.3	3.9	4.0	4.2	4.0	4.1	4.1	3.7 p			
<b>New hires</b>												
1959.....	2.4	2.6	2.9	2.8	2.7	2.7	2.6	2.6	2.6	2.4	2.4	2.7
1960.....	2.6	2.8	2.4	2.2	2.3	2.2	2.1	2.2	2.1	1.9	1.9	1.8
1961.....	1.8	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.3	2.5	2.5	2.5
1962.....	2.6	2.6	2.6	2.6	2.7	2.5	2.6	2.4	2.4	2.3	2.3	2.1
1963.....	2.3	2.2	2.4	2.5	2.4	2.4	2.4	2.4	2.5	2.4	2.2	2.5
1964.....	2.4	2.5	2.6	2.6	2.4	2.6	2.6	2.6	2.7	2.6	2.7	2.8
1965.....	2.8	3.0	3.3	2.8	2.9	3.0	3.0	3.1	3.1	3.2	3.5	3.7
1966.....	3.7	3.8	4.3	3.9	4.0	3.9	3.7	3.8	3.7	3.8	3.8	3.5
1967.....	3.5	3.3	3.2	3.1	3.2	3.2	3.1	3.2	3.2	3.4	3.4	3.4
1968.....	3.4	3.3	3.3	3.5	3.5	3.3	3.5	3.5	3.6	3.6	3.5	3.7
1969.....	3.8	3.7	3.9	3.8	3.7	3.8	3.8	3.5	3.8	3.6	3.4	3.5
1970.....	3.3	3.1	3.0	2.8	2.7	2.7	2.8	2.9	2.6 p			
<b>Total separations</b>												
1959.....	3.6	3.6	3.6	3.8	3.8	3.9	4.0	4.2	4.2	5.1	4.7	4.1
1960.....	3.5	4.1	4.4	4.4	4.3	4.4	4.3	4.3	4.2	4.3	4.5	5.0
1961.....	4.6	4.6	4.2	3.6	3.8	4.0	4.0	3.7	4.1	3.9	4.0	4.1
1962.....	3.9	4.0	4.0	3.9	4.2	4.2	4.2	4.4	3.9	4.1	4.1	3.9
1963.....	4.0	3.8	3.9	3.9	3.9	3.8	3.9	4.1	3.8	3.8	4.0	3.9
1964.....	4.0	4.0	3.9	3.8	3.9	3.9	4.1	3.6	3.9	4.0	3.8	3.9
1965.....	3.8	3.7	3.8	4.1	3.9	4.0	4.0	4.2	4.2	4.3	4.2	4.3
1966.....	4.1	4.3	4.6	4.7	4.7	4.9	4.9	4.7	4.9	4.5	4.7	4.5
1967.....	4.6	4.8	5.1	4.7	4.6	4.7	4.4	4.3	4.6	4.5	4.5	4.1
1968.....	4.6	4.7	4.6	4.5	4.6	4.5	4.6	4.9	4.6	4.7	4.6	4.1
1969.....	4.7	4.8	4.9	4.9	5.0	5.0	4.9	5.0	4.8	5.0	4.8	4.5
1970.....	5.0	5.1	5.0	5.2	5.0	4.8	4.9	4.5	4.4 p			
<b>Quits</b>												
1959.....	1.4	1.3	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.6
1960.....	1.5	1.6	1.5	1.5	1.3	1.4	1.4	1.3	1.3	1.2	1.1	1.1
1961.....	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.4
1962.....	1.3	1.4	1.4	1.4	1.5	1.5	1.4	1.5	1.4	1.4	1.4	1.3
1963.....	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.3
1964.....	1.4	1.4	1.4	1.4	1.5	1.4	1.5	1.5	1.5	1.6	1.5	1.6
1965.....	1.7	1.7	1.7	1.8	1.7	1.8	1.8	1.8	2.0	2.0	2.1	2.2
1966.....	2.2	2.3	2.6	2.6	2.6	2.6	2.6	2.5	2.6	2.6	2.6	2.7
1967.....	2.5	2.4	2.4	2.3	2.3	2.4	2.2	2.3	2.3	2.3	2.4	2.4
1968.....	2.4	2.4	2.4	2.3	2.5	2.4	2.5	2.7	2.5	2.6	2.6	2.5
1969.....	2.7	2.7	2.7	2.7	2.8	2.8	2.7	2.8	2.6	2.7	2.6	2.5
1970.....	2.5	2.4	2.2	2.2	2.1	2.2	2.2	2.1	1.9 p			
<b>Layoffs</b>												
1959.....	1.8	1.7	1.7	1.7	1.6	1.7	1.9	2.0	2.0	2.9	2.5	1.9
1960.....	1.5	1.9	2.3	2.4	2.3	2.5	2.4	2.6	2.5	2.6	2.7	2.8
1961.....	2.7	3.0	2.5	2.1	2.2	2.3	2.2	2.0	2.2	1.9	1.9	2.0
1962.....	1.8	1.9	1.7	1.8	2.0	2.0	2.0	2.4	2.0	2.0	2.0	1.9
1963.....	1.9	1.8	1.9	1.8	1.8	1.7	1.7	2.0	1.9	1.8	1.8	1.7
1964.....	1.8	1.8	1.8	1.6	1.7	1.6	1.7	1.5	1.6	1.7	1.5	1.6
1965.....	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.7	1.4	1.3	1.4	1.4
1966.....	1.2	1.1	1.1	1.2	1.1	1.3	1.5	1.2	1.1	1.1	1.2	1.3
1967.....	1.3	1.4	1.7	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2
1968.....	1.3	1.3	1.2	1.2	1.2	1.1	1.3	1.4	1.2	1.2	1.1	1.1
1969.....	1.1	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.3	1.3	1.4
1970.....	1.5	1.7	1.8	2.0	1.9	1.9	1.6	1.8	2.0 p			

p - preliminary.

**ESTABLISHMENT DATA  
STATE AND AREA LABOR TURNOVER**
**D-4: Labor turnover rates in manufacturing for selected States and areas**

State and area	(Per 100 employees)									
	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	Aug. 1970P	July 1970	Aug. 1970P	July 1970	Aug. 1970P	July 1970	Aug. 1970P	July 1970	Aug. 1970P	July 1970
ALABAMA:										
Birmingham	2.5	2.9	2.2	2.2	3.2	3.0	1.7	1.3	0.8	0.8
Mobile <sup>1</sup>	4.4	6.4	3.9	4.6	5.5	5.1	3.4	2.5	1.0	1.5
ALASKA	(*)	37.5	(*)	31.6	(*)	17.2	(*)	6.5	(*)	7.0
ARIZONA	5.0	4.2	3.9	3.1	6.2	6.4	3.2	2.9	1.6	2.2
Phoenix	4.5	3.9	3.4	2.8	5.6	6.4	2.8	2.8	1.5	2.3
ARKANSAS	7.3	6.4	6.0	5.3	8.5	7.2	6.1	4.2	1.4	2.1
Fort Smith	7.6	7.1	7.2	6.4	11.4	11.4	8.3	5.6	2.2	4.5
Little Rock-North Little Rock	5.8	4.5	5.4	3.9	6.7	7.3	4.8	3.4	1.1	3.1
Pine Bluff	5.4	3.9	4.3	3.4	6.1	4.8	4.0	3.4	1.5	.7
COLORADO	5.4	4.8	4.0	3.6	6.5	3.9	3.8	2.2	1.7	.9
Denver	6.1	4.8	4.8	3.9	7.4	4.1	4.8	2.4	1.4	.7
CONNECTICUT	2.7	2.0	2.0	1.5	4.1	3.4	2.1	1.5	1.1	1.2
Hartford	1.7	1.4	1.1	1.1	3.4	3.2	1.9	1.3	.6	.9
DELAWARE <sup>1</sup>	3.0	2.4	1.8	1.2	3.8	2.6	2.0	1.4	.8	.6
Wilmington <sup>1</sup>	2.7	2.4	1.7	1.1	3.5	2.3	1.9	1.0	.8	.6
DISTRICT OF COLUMBIA:										
Washington SMSA	2.2	2.4	2.2	2.4	3.2	2.6	2.6	2.1	.2	.1
FLORIDA	5.9	6.4	4.5	5.3	7.5	8.0	4.1	3.8	2.4	3.0
Fort Lauderdale-Hollywood	7.0	5.6	5.6	5.2	5.5	7.8	3.3	3.9	1.2	2.8
Jacksonville	4.8	5.7	4.4	5.4	5.8	7.0	4.4	4.0	.7	2.0
Miami	4.4	5.4	3.5	4.5	6.3	7.1	3.2	3.4	2.1	2.7
Orlando	3.6	4.7	2.7	3.4	4.8	8.3	2.6	2.5	1.5	4.8
Pensacola	1.0	1.3	.9	1.3	1.9	1.2	1.6	.7	(2)	.2
Tampa-St. Petersburg	8.0	8.2	6.5	6.8	8.1	7.7	5.6	4.7	1.3	2.0
West Palm Beach	5.0	4.6	3.7	3.6	7.3	4.9	3.5	3.0	1.5	.7
GEORGIA	5.7	5.8	4.6	4.8	6.1	5.6	4.4	3.8	.6	.8
Atlanta <sup>3</sup>	6.0	5.0	4.6	4.2	6.9	5.2	4.2	3.2	1.2	.8
HAWAII <sup>4</sup>	2.5	2.8	1.8	2.2	3.6	3.0	2.2	1.6	.6	.6
IDAHO <sup>5</sup>	6.1	5.8	5.6	4.7	7.0	4.6	4.8	2.7	1.0	.8
ILLINOIS:										
Chicago	4.5	3.9	3.8	3.2	5.6	4.2	3.2	2.3	1.1	.5
INDIANA <sup>1</sup>	4.3	3.2	2.5	2.0	4.7	3.9	2.2	1.5	1.6	1.5
Indianapolis <sup>6</sup>	5.0	2.4	2.0	1.7	4.5	4.8	1.7	1.1	1.6	2.6
IOWA	5.6	3.5	3.9	2.2	5.2	3.5	3.1	1.6	1.2	1.3
Cedar Rapids	3.2	2.8	1.9	1.4	4.1	3.3	1.6	1.3	1.8	1.5
Des Moines	6.0	3.8	4.4	2.8	6.2	5.0	4.5	2.5	.4	.7
KANSAS	4.0	3.4	2.9	2.3	6.3	5.0	3.5	1.9	2.0	2.1
Topeka	4.0	2.8	3.5	1.8	7.6	4.1	4.0	2.2	2.8	1.4
Wichita	2.3	2.6	1.5	1.8	5.1	4.4	1.8	1.1	2.7	2.4
KENTUCKY:										
Louisville	4.8	4.1	3.7	3.1	5.4	3.3	3.4	2.0	.8	.8
	4.1	3.6	3.0	2.8	4.2	3.5	2.6	1.8	.8	.8
LOUISIANA:										
New Orleans	5.7	4.5	3.7	3.7	5.7	5.2	2.5	1.9	1.7	1.7
MAINE	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Portland	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
MARYLAND	5.7	4.3	3.1	2.9	4.8	5.6	2.5	1.8	1.2	2.9
Baltimore	6.2	4.1	2.9	2.8	4.9	6.4	2.5	1.8	1.3	3.5

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**

State and area	(Per 100 employees)									
	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	Aug. 1970 <sup>P</sup>	July 1970	Aug. 1970 <sup>P</sup>	July 1970	Aug. 1970 <sup>P</sup>	July 1970	Aug. 1970 <sup>P</sup>	July 1970	Aug. 1970 <sup>P</sup>	July 1970
MASSACHUSETTS.....	4.1	5.0	2.7	2.1	5.7	7.1	3.0	2.0	1.6	4.2
Boston.....	3.4	3.5	2.5	1.9	5.1	5.1	2.7	1.9	1.6	2.3
MICHIGAN.....	(*)	5.0	(*)	1.9	(*)	11.5	(*)	1.1	(*)	9.4
Detroit.....	7.6	4.9	3.0	1.7	5.8	6.5	1.8	1.1	2.8	4.3
MINNESOTA.....	5.9	4.1	4.6	3.0	6.0	4.2	3.4	2.3	1.7	1.1
Minneapolis-St. Paul.....	3.5	3.4	2.6	2.4	5.1	4.2	2.7	2.1	1.5	1.3
MISSISSIPPI:										
Jackson.....	8.4	3.8	6.2	3.1	5.5	5.2	4.3	3.0	.2	1.2
MISSOURI.....	4.2	3.7	3.2	2.6	5.4	3.7	3.0	1.9	1.4	.9
Kansas City.....	4.1	3.6	2.9	2.4	5.5	3.7	3.4	1.9	1.3	1.1
St. Louis.....	2.8	2.6	2.1	1.9	4.4	2.9	2.0	1.3	1.4	.7
MONTANA.....	4.6	5.3	4.3	4.6	5.6	3.9	3.3	2.2	.8	1.0
NEBRASKA.....	5.0	4.3	4.6	3.7	6.3	4.3	4.7	2.9	.6	.5
NEVADA.....	6.2	5.7	5.2	5.0	7.5	8.4	3.6	3.6	2.2	2.9
NEW HAMPSHIRE.....	5.0	3.7	4.0	3.1	6.5	5.6	4.1	3.1	1.5	1.8
NEW JERSEY:										
Camden <sup>7</sup> .....	5.0	4.8	4.1	3.1	4.6	4.2	2.7	1.8	.9	1.6
Jersey City.....	3.2	3.3	2.3	1.9	4.3	4.8	2.1	1.5	1.3	2.3
Newark.....	3.8	3.5	2.6	2.2	4.9	6.3	2.5	1.6	1.5	3.9
Paterson-Clifton-Passaic.....	5.1	4.5	3.5	2.9	5.5	5.4	3.0	1.9	1.4	2.5
Perth Amboy.....	4.0	4.5	2.5	2.5	4.8	6.8	3.1	1.6	.7	4.4
Trenton.....	4.2	4.6	2.2	2.3	4.0	4.8	2.4	1.6	1.0	2.4
NEW YORK.....	5.5	4.4	3.1	2.8	5.2	6.5	2.8	1.7	1.8	3.9
Albany-Schenectady-Troy.....	3.6	2.7	2.0	1.9	3.8	3.5	2.2	1.2	.6	1.5
Binghamton.....	2.7	1.6	1.6	1.0	4.1	2.9	1.7	1.0	1.5	1.2
Buffalo.....	5.0	3.8	2.2	2.2	4.3	7.0	1.8	1.2	1.7	5.1
Elmira.....	7.1	3.0	3.3	2.5	4.6	6.9	2.5	1.3	1.0	4.8
Monroe County <sup>8</sup> .....	3.3	2.9	1.9	2.4	3.8	3.6	1.6	1.2	1.0	1.8
Nassau and Suffolk Counties <sup>9</sup> .....	4.0	3.3	3.0	2.5	5.1	6.4	2.6	2.1	1.7	3.3
New York SMSA.....	6.8	5.5	3.7	3.3	5.6	8.6	2.5	2.0	2.0	5.5
New York City <sup>9</sup> .....	7.5	6.1	4.0	3.4	5.7	8.8	2.4	2.0	2.1	5.7
Rochester.....	4.4	3.8	2.7	2.9	4.4	3.8	1.9	1.3	1.4	1.9
Syracuse.....	2.8	2.1	1.6	1.2	3.8	3.0	1.9	1.3	1.2	1.1
Utica-Rome.....	3.8	2.9	2.0	1.6	4.3	3.7	1.9	1.4	1.8	1.5
Westchester County <sup>9</sup> .....	5.0	4.1	3.0	3.0	6.0	12.1	2.5	1.8	2.3	9.3
NORTH CAROLINA.....	5.5	4.9	4.7	3.9	5.9	4.8	4.6	3.5	.4	.5
Charlotte.....	6.1	4.9	5.7	4.5	6.1	5.5	5.0	3.6	.2	1.1
Greensboro-Winston-Salem-High Point.....	4.9	5.2	4.2	3.9	5.4	3.9	4.4	3.0	.1	.1
NORTH DAKOTA.....	5.0	4.6	4.2	4.0	6.3	4.4	3.6	2.2	1.2	1.9
Fargo-Moorhead.....	4.8	6.8	4.5	5.8	5.9	5.5	3.3	1.9	.8	.9
OHIO.....	4.2	3.6	2.5	2.1	4.4	3.7	1.9	1.3	1.5	1.5
Akron.....	2.1	2.4	1.3	1.5	2.5	2.2	1.2	1.0	.7	.5
Canton.....	4.2	3.8	2.2	1.8	4.3	3.1	1.9	1.2	1.4	1.1
Cincinnati.....	3.3	3.6	2.6	2.4	4.0	3.8	2.1	1.7	1.0	1.1
Cleveland.....	3.2	2.9	2.2	2.0	4.3	3.3	2.1	1.4	1.2	1.0
Columbus.....	4.0	3.5	2.3	2.1	3.9	3.6	2.0	1.4	1.0	1.3
Dayton.....	4.9	3.3	1.7	1.7	3.3	5.3	1.5	1.1	1.0	3.0
Toledo.....	4.9	3.7	3.1	2.0	6.1	4.8	1.9	1.4	3.0	2.2
Youngstown-Warren.....	6.1	6.4	2.4	2.2	6.1	4.4	1.3	.8	3.7	2.6
OKLAHOMA:										
Oklahoma City.....	8.1	7.0	7.1	6.0	7.2	6.1	5.4	3.9	1.0	1.3
Tulsa <sup>10</sup> .....	6.3	4.8	5.5	4.3	8.7	5.9	5.8	3.3	1.4	1.1
OREGON <sup>1</sup> .....	4.6	4.5	3.7	3.6	4.8	4.0	2.6	2.0	1.4	1.2
Portland.....	4.5	3.7	3.4	2.8	4.7	3.8	2.3	1.6	1.6	1.4

See footnotes at end of table.

# ESTABLISHMENT DATA STATE AND AREA LABOR TURNOVER

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

State and area	(Per 100 employees)									
	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	Aug. 1970 <sup>p</sup>	July 1970	Aug. 1970 <sup>p</sup>	July 1970	Aug. 1970 <sup>p</sup>	July 1970	Aug. 1970 <sup>p</sup>	July 1970	Aug. 1970 <sup>p</sup>	July 1970
PENNSYLVANIA:										
Allentown-Bethlehem-Easton	3.6	5.0	2.6	1.9	4.1	5.5	2.5	1.5	0.8	3.1
Altoona	6.8	4.2	2.9	2.8	3.8	8.8	2.4	2.8	1.1	5.4
Erie	5.1	3.9	3.9	3.0	4.3	3.8	2.5	2.1	.7	.9
Harrisburg	3.3	3.4	2.5	2.3	3.5	3.4	2.4	1.5	.6	1.3
Johnstown	2.6	1.9	1.2	.6	4.0	4.5	2.2	1.1	1.4	3.0
Lancaster	4.3	4.8	3.4	3.0	5.2	5.1	3.5	2.7	.9	1.6
Philadelphia	3.4	3.8	2.4	2.4	4.7	4.6	2.3	1.5	1.5	2.2
Pittsburgh	3.1	2.5	1.4	1.1	3.6	3.1	1.6	.7	1.2	1.6
Reading	5.2	2.8	3.5	2.3	4.9	4.1	3.1	1.9	.9	1.5
Scranton	4.5	4.6	2.3	2.4	5.9	5.0	2.5	1.5	2.7	3.0
Wilkes-Barre-Hazleton	3.2	4.9	1.7	2.0	5.1	5.0	2.1	1.7	2.2	2.8
York	4.8	5.2	3.5	3.0	6.1	5.3	3.8	2.4	1.7	2.1
RHODE ISLAND:										
Providence-Pawtucket-Warwick	6.0	6.3	4.3	2.9	7.6	7.4	3.4	2.2	3.1	4.2
	5.5	6.2	4.0	2.8	7.0	7.2	3.3	2.2	2.8	4.1
SOUTH CAROLINA:										
Greenville	6.1	5.8	5.0	4.8	7.1	6.2	5.4	4.3	.6	.8
SOUTH DAKOTA:										
Sioux Falls	3.9	4.9	2.7	3.1	5.6	3.8	3.3	1.9	1.8	1.3
	4.9	5.0	2.8	1.8	7.2	4.5	3.3	1.5	3.5	2.6
TENNESSEE:										
Memphis	5.9	5.2	5.0	4.1	6.0	4.5	3.2	2.7	1.4	.7
TEXAS:										
Dallas	3.9	3.6	3.3	3.0	6.8	5.2	4.1	3.0	1.6	1.2
Fort Worth	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Houston	4.0	4.2	3.6	3.9	5.8	4.4	4.1	2.7	.6	.5
San Antonio	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
UTAH <sup>5</sup> :										
Salt Lake City <sup>5</sup>	(*)	3.8	(*)	3.1	(*)	3.6	(*)	2.0	(*)	1.2
	(*)	4.4	(*)	3.9	(*)	4.6	(*)	2.3	(*)	1.7
VERMONT:										
Burlington	3.2	3.2	2.3	1.8	4.1	3.5	2.4	1.6	.9	1.3
Springfield	2.1	1.4	1.7	1.1	3.2	1.8	2.3	1.1	.4	.3
	3.9	7.8	1.1	.5	2.9	5.4	1.4	.6	.7	4.3
VIRGINIA:										
Richmond	4.6	4.0	3.2	3.1	4.8	4.7	3.5	2.6	.6	1.4
	4.5	3.2	3.7	2.7	4.6	3.5	3.2	2.0	.5	.9
WASHINGTON:										
Seattle-Everett <sup>11</sup>	2.2	2.0	1.4	1.2	5.3	4.1	1.5	1.2	3.3	2.3
WEST VIRGINIA:										
Charleston	.8	1.2	.7	1.0	1.9	1.3	1.0	.6	.4	.3
WISCONSIN:										
Milwaukee	5.8	4.4	4.2	3.0	5.0	4.0	3.0	1.5	1.1	1.6
	3.7	3.2	2.6	2.1	4.7	3.4	2.5	1.5	1.1	.9
WYOMING:										
	7.3	6.9	6.3	6.0	7.7	5.0	5.0	3.4	1.1	1.0

<sup>1</sup> Excludes canning and preserving.

<sup>2</sup> Less than 0.05.

<sup>3</sup> Excludes agricultural chemicals and miscellaneous manufacturing.

<sup>4</sup> Excludes canned fruits, vegetables, preserves, jams and jellies.

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

<sup>6</sup> Excludes canning and preserving, and newspapers.

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

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

<sup>9</sup> Subarea of New York Standard Metropolitan Statistical Area.

<sup>10</sup> Excludes new-hire rate for transportation equipment.

<sup>11</sup> Excludes canning and preserving, printing and publishing.

\* Not available.

p = preliminary

SOURCE: Cooperating State agencies listed on inside back cover.



**ESTABLISHMENT DATA**  
**JOB VACANCY**

**E-1: Number and rate of job vacancies in manufacturing, April 1969 to date**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
Number of job vacancies (In thousands)													
1969-----	-	-	-	293	290	240	256	312	288	242	209	185	263
1970-----	186	170	165	158	151	123	126	137	288	242	209	185	263
Job vacancy rates <sup>1</sup>													
1969-----	-	-	-	1.4	1.4	1.2	1.3	1.5	1.4	1.2	1.0	0.9	1.3
1970-----	0.9	0.8	0.8	.8	.8	.6	.6	.7	1.4	1.2	1.0	0.9	1.3
Number of long-term job vacancies <sup>2</sup> (In thousands)													
1969-----	-	-	-	137	131	110	109	121	127	111	101	90	120
1970-----	76	69	67	60	58	45	44	43	127	111	101	90	120
Long-term job vacancy rates <sup>2</sup>													
1969-----	-	-	-	0.7	0.6	0.5	0.5	0.6	0.6	0.5	0.5	0.4	0.6
1970-----	0.4	0.3	0.3	.3	.3	.2	.2	.2	0.6	0.6	0.5	0.4	0.6

<sup>1</sup> Computed by dividing the number of vacancies by the sum of employment plus vacancies and multiplying that quotient by 100.

<sup>2</sup> Long-term job vacancies are those vacancies that have remained unfilled for 30 days or more. The long-term job vacancy rate is computed by dividing the number of long-term vacancies by the sum of employment plus all job vacancies and multiplying that quotient by 100.

**E-2: Job vacancy rates in manufacturing, by industry**

Industry division and group	1970							1969					
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
Job vacancy rates <sup>1</sup>													
Manufacturing . . . . .	0.7	0.6	0.6	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.2	1.4	1.5
Durable goods . . . . .	.6	.6	.6	.7	.7	.8	.9	1.0	1.0	1.1	1.2	1.5	1.6
Nondurable goods . . . . .	.8	.7	.7	.9	.9	.9	.8	.9	.9	1.0	1.1	1.2	1.3
Selected durable goods industries:													
Primary metal industries . . . . .	.6	.4	.5	.6	.7	.6	.6	.8	.7	.9	1.2	1.5	1.4
Machinery, except electrical . . . . .	.6	.5	.6	.8	.9	1.0	1.0	1.2	1.1	1.4	1.6	1.8	1.9
Electrical equipment and supplies . . . . .	.7	.6	.6	.8	.8	.9	1.1	1.1	1.2	1.2	1.5	1.8	1.9
Transportation equipment . . . . .	.6	.5	.5	.6	.5	.7	.6	.8	.8	.8	1.0	1.2	1.5
Instruments and related products . . . . .	.7	.6	.7	1.1	1.4	1.7	1.7	1.6	1.4	1.6	1.9	2.3	2.3
Selected nondurable goods industries:													
Textile mill products . . . . .	1.0	.9	.8	1.1	1.1	1.0	.9	.9	.9	1.0	1.2	1.4	1.5
Apparel and other textile products . . . . .	1.5	1.4	1.4	1.5	1.5	1.6	1.6	1.6	1.5	1.6	1.8	1.9	2.0
Printing and publishing . . . . .	.6	.5	.5	.6	.7	.7	.7	.8	.8	.9	.9	1.1	1.3
Chemicals and allied products . . . . .	.6	.6	.7	.8	.8	1.0	.9	.9	.9	1.0	1.1	1.1	1.1
Long-term job vacancy rates <sup>2</sup>													
Manufacturing . . . . .	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6
Durable goods . . . . .	.2	.2	.2	.2	.3	.3	.3	.4	.5	.5	.6	.6	.6
Nondurable goods . . . . .	.3	.3	.3	.3	.3	.3	.4	.4	.4	.5	.5	.6	.5
Selected durable goods industries:													
Primary metal industries . . . . .	.1	.2	.1	.2	.3	.2	.2	.3	.3	.5	.6	.7	.5
Machinery, except electrical . . . . .	.2	.2	.2	.3	.4	.4	.5	.5	.6	.7	.8	.8	.8
Electrical equipment and supplies . . . . .	.2	.1	.1	.2	.2	.3	.3	.4	.5	.5	.5	.6	.6
Transportation equipment . . . . .	.2	.2	.1	.2	.2	.3	.2	.3	.4	.4	.5	.5	.5
Instruments and related products . . . . .	.2	.2	.2	.4	.6	.9	.8	.6	.6	.7	.7	.8	.7
Selected nondurable goods industries:													
Textile mill products . . . . .	.2	.2	.2	.3	.3	.3	.3	.3	.4	.4	.4	.5	.5
Apparel and other textile products . . . . .	.8	.7	.8	.8	.8	.8	.8	.8	.9	1.0	1.1	1.2	1.2
Printing and publishing . . . . .	.1	.1	.1	.2	.2	.3	.2	.3	.3	.3	.3	.5	.3
Chemicals and allied products . . . . .	.2	.3	.3	.4	.4	.4	.3	.4	.4	.5	.5	.6	.6
Long-term job vacancies as a percent of job vacancies <sup>3</sup>													
Manufacturing . . . . .	31	35	36	37	38	40	41	41	48	49	46	44	39
Durable goods . . . . .	30	33	33	35	37	40	40	41	48	49	44	43	37
Nondurable goods . . . . .	33	38	40	39	39	41	42	41	49	48	48	45	41
Selected durable goods industries:													
Primary metal industries . . . . .	27	36	29	39	37	39	41	40	45	49	49	50	35
Machinery, except electrical . . . . .	37	42	38	42	42	46	47	46	54	52	48	47	43
Electrical equipment and supplies . . . . .	25	22	22	27	28	30	32	36	42	42	35	37	30
Transportation equipment . . . . .	32	37	30	28	41	39	37	38	52	55	47	42	36
Instruments and related products . . . . .	24	23	34	39	41	51	49	36	42	43	36	34	32
Selected nondurable goods industries:													
Textile mill products . . . . .	21	24	29	28	26	29	31	30	43	40	36	37	35
Apparel and other textile products . . . . .	50	52	55	53	54	54	52	52	62	61	60	61	60
Printing and publishing . . . . .	21	27	32	30	33	38	36	35	38	40	37	40	28
Chemicals and allied products . . . . .	31	45	43	48	49	42	40	48	52	56	55	52	52

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

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

<sup>3</sup> Percentages are computed using unrounded rates.

## ESTABLISHMENT DATA NATIONAL AND AREA JOB VACANCY

### E-3: Percent distribution of job vacancies in manufacturing, by industry

Industry division and group	1970								1969				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
Manufacturing . . . . .	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
Durable goods . . . . .	51.5	51.0	52.1	53.7	54.8	56.9	58.9	60.3	61.0	60.4	62.5	63.2	64.0
Primary metal industries . . . . .	5.5	4.5	5.3	5.6	6.2	4.6	4.4	5.6	5.3	6.2	7.0	7.0	6.4
Machinery, except electrical . . . . .	8.1	8.4	10.5	10.6	11.3	12.2	12.6	12.9	12.6	13.3	13.3	12.7	12.6
Electrical equipment and supplies . . . . .	9.8	10.0	9.1	9.7	10.0	10.9	12.5	12.1	13.4	12.0	13.0	12.9	12.6
Transportation equipment . . . . .	7.2	6.6	7.0	7.2	6.3	8.3	7.1	8.5	8.4	7.9	8.7	9.0	10.0
Instruments and related products . . . . .	2.4	2.4	2.6	3.6	4.4	5.0	4.9	4.1	3.6	3.7	3.8	3.8	3.5
Other durable goods industries . . . . .	18.6	19.3	17.6	16.9	16.5	15.8	17.4	17.2	17.6	17.3	16.7	17.7	18.8
Nondurable goods . . . . .	48.5	49.0	47.9	46.3	45.2	43.1	41.1	39.7	39.0	39.6	37.5	36.8	36.0
Textile mill products . . . . .	7.1	6.9	6.7	6.8	7.0	6.0	5.1	4.5	4.7	4.7	4.9	4.8	4.9
Apparel and other textile products . . . . .	15.7	15.0	16.6	14.3	13.2	13.4	13.6	12.1	11.6	11.1	10.7	9.6	9.3
Printing and publishing . . . . .	5.1	4.4	4.3	4.4	5.0	4.7	4.5	5.1	4.8	4.6	4.1	4.4	4.5
Chemicals and allied products . . . . .	4.9	5.3	6.0	5.4	5.6	5.9	5.6	5.2	4.5	4.4	4.3	3.9	3.8
Other nondurable goods industries . . . . .	15.7	17.4	14.3	15.3	14.4	13.2	12.2	12.9	13.3	14.9	13.5	14.0	13.5

### E-4: Job vacancy rates in manufacturing, United States and selected areas

Areas	Job vacancy rates				Areas	Job vacancy rates			
	Total <sup>1</sup>		Long-term <sup>2</sup>			Total <sup>1</sup>		Long-term <sup>2</sup>	
	Aug. 1970 <sup>p</sup>	July 1970	Aug. 1970 <sup>p</sup>	July 1970		Aug. 1970 <sup>p</sup>	July 1970	Aug. 1970 <sup>p</sup>	July 1970
United States <sup>3</sup> . . . . .	0.7	0.6	0.2	0.2	Areas—Continued				
Albany-Schenectady-Troy . . . . .	.7	.9	.3	.4	Minneapolis-St. Paul . . . . .	0.5	0.4	0.1	0.2
Atlanta . . . . .	.5	.5	.1	.1	New Orleans . . . . .	.6	.3	.5	.2
Baltimore . . . . .	1.0	.7	.2	.2	Newark . . . . .	.7	.6	.1	.3
Boston . . . . .	1.2	1.1	.4	.4	New York . . . . .	.7	.7	.3	.3
Buffalo . . . . .	.7	.6	.2	.1	Oklahoma City . . . . .	1.4	.7	.1	.2
Cedar Rapids . . . . .	.7	.4	*	*	Paterson-Clifton-Passaic . . . . .	.6	.5	.2	.2
Dallas . . . . .	.5	.4	.1	.1	Perth Amboy . . . . .	.9	.7	.4	.3
Denver . . . . .	.4	.6	.2	.3	Philadelphia . . . . .	.7	.7	.2	.2
Des Moines . . . . .	.5	.3	.1	.2	Phoenix . . . . .	.7	1.1	.3	.2
Detroit . . . . .	.7	.4	.2	.1	Portland . . . . .	.4	.2	*	*
Greensboro-Winston-Salem-High Point . . . . .	1.4	1.1	.3	.3	Providence-Pawtucket-Warwick . . . . .	.9	.8	.2	.2
Houston . . . . .	.8	1.0	.4	.5	Richmond . . . . .	.9	1.0	.4	.3
Jersey City . . . . .	.3	.2	*	*	Salt Lake City . . . . .	.6	.3	*	*
Kansas City . . . . .	.4	.5	.2	.1	St. Louis . . . . .	.2	.2	*	.1
Little Rock-North Little Rock . . . . .	.8	.3	.2	.1	Tampa-St. Petersburg . . . . .	.9	1.3	.2	.2
Miami . . . . .	.3	1.0	.1	.3	Wichita . . . . .	.2	.3	.1	*
Milwaukee . . . . .	.6	.5	.2	.1					

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

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

<sup>3</sup> Based on a nationwide sample which includes metropolitan areas not shown in the table as well as nonmetropolitan areas.

<sup>p</sup> preliminary.

\* Less than 0.05.

Source: Cooperating State agencies listed on inside back cover.

F-1: Insured unemployment under State programs

(Week including the 12th of the month)

State	Number (in thousands)					Rate (percent of average covered employment)		
	Oct. 1970	Sept. 1970	Oct. 1969	Change to Oct. 1970 from <sup>1</sup>		Oct. 1970	Sept. 1970	Oct. 1969
				Sept. 1970	Oct. 1969			
<b>TOTAL<sup>2</sup></b> . . . . .	1,714.2	**1,647.6	863.9	+66.5	+850.3	3.2	3.1	1.6
<b>SEASONALLY ADJUSTED</b> . . . . .	2,329.9	2,241.2	1,160.5	+88.7	+1,169.4	4.4	4.2	2.2
Alabama . . . . .	21.8	21.0	12.1	+ .8	+9.7	3.1	3.0	1.8
Alaska . . . . .	3.1	2.5	2.5	+ .6	+ .6	5.7	4.8	5.3
Arizona . . . . .	9.8	10.1	4.1	- .3	+5.7	2.6	2.7	1.2
Arkansas . . . . .	12.5	11.6	7.0	+ .9	+5.5	3.1	2.9	1.8
California* . . . . .	264.4	272.3	143.4	-7.9	+121.0	5.0	5.2	2.8
Colorado . . . . .	5.1	5.3	3.1	- .1	+2.0	1.0	1.1	.7
Connecticut . . . . .	46.7	44.8	20.5	+1.9	+26.3	4.6	4.4	2.1
Delaware . . . . .	3.6	3.9	1.8	- .4	+1.8	2.1	2.3	1.1
District of Columbia . . . . .	5.1	5.6	3.1	- .5	+2.1	1.5	1.6	.9
Florida . . . . .	36.3	39.0	20.6	-2.7	+15.7	2.4	2.7	1.5
Georgia . . . . .	19.1	19.6	9.6	- .4	+9.5	1.7	1.8	.9
Hawaii . . . . .	7.8	**6.3	4.4	+1.5	+3.4	3.2	2.6	1.9
Idaho . . . . .	3.0	4.2	1.8	-1.2	+1.2	2.0	2.8	1.2
Illinois . . . . .	66.4	73.1	32.3	-6.6	+34.1	2.0	2.3	1.0
Indiana . . . . .	40.1	25.6	10.2	+14.5	+29.9	2.8	1.8	.7
Iowa . . . . .	9.9	9.7	4.8	+ .2	+5.1	1.7	1.7	.8
Kansas . . . . .	15.2	14.7	5.1	+ .5	+10.1	3.4	3.3	1.2
Kentucky . . . . .	15.3	13.5	9.0	+1.8	+6.2	2.5	2.2	1.5
Louisiana . . . . .	23.2	25.9	15.6	-2.7	+7.6	3.2	3.6	2.2
Maine . . . . .	9.3	8.9	6.3	+ .4	+2.9	4.1	4.0	2.9
Maryland . . . . .	19.9	20.7	9.7	- .8	+10.2	2.1	2.2	1.1
Massachusetts . . . . .	61.7	74.2	39.9	-12.5	+21.8	3.5	4.3	2.3
Michigan . . . . .	114.1	98.8	31.6	+15.3	+82.5	4.6	4.0	1.3
Minnesota . . . . .	18.8	22.9	5.0	-4.1	+13.8	1.9	2.3	.5
Mississippi . . . . .	7.0	7.0	5.3	+ .1	+1.8	1.8	1.8	1.4
Missouri . . . . .	34.1	32.0	19.6	+2.1	+14.5	2.8	2.7	1.7
Montana . . . . .	2.6	2.4	1.8	+ .2	+ .7	2.0	1.9	1.5
Nebraska . . . . .	4.2	3.8	1.9	+ .4	+2.3	1.4	1.2	.7
Nevada . . . . .	5.4	5.7	3.2	- .3	+2.2	3.4	3.7	2.3
New Hampshire . . . . .	5.3	5.0	1.9	+ .3	+3.5	2.7	2.5	1.0
New Jersey . . . . .	82.9	79.2	49.3	+3.6	+33.5	4.0	3.8	2.6
New Mexico . . . . .	7.3	7.5	3.7	- .2	+3.6	3.9	4.1	2.1
New York . . . . .	204.3	183.8	108.9	+20.5	+95.5	3.6	3.2	1.9
North Carolina . . . . .	24.9	23.6	12.9	+1.2	+12.0	1.9	1.8	1.0
North Dakota . . . . .	.8	.7	.5	-	+ .3	.9	.9	.6
Ohio . . . . .	72.0	50.4	18.2	+21.6	+53.7	2.4	1.7	.6
Oklahoma . . . . .	15.3	13.5	8.6	+1.8	+6.7	3.1	2.8	1.8
Oregon . . . . .	20.3	21.0	13.4	- .7	+6.9	3.7	3.9	2.6
Pennsylvania . . . . .	110.1	98.4	49.9	+11.6	+60.2	3.2	2.9	1.5
Puerto Rico <sup>3</sup> . . . . .	57.6	57.5	52.2	+ .1	+5.3	8.7	8.6	7.4
Rhode Island . . . . .	11.8	12.9	6.7	-1.2	+5.1	4.2	4.6	2.4
South Carolina . . . . .	16.4	15.8	8.8	+ .6	+7.7	2.6	2.6	1.5
South Dakota . . . . .	1.0	1.0	.8	-	+ .2	1.1	1.1	.9
Tennessee . . . . .	29.8	28.5	16.5	+1.3	+13.2	3.1	3.0	1.8
Texas . . . . .	40.0	36.7	17.0	+3.2	+23.0	1.5	1.4	.7
Utah . . . . .	5.8	6.4	4.3	- .6	+1.5	2.5	2.8	2.0
Vermont . . . . .	3.1	2.8	1.1	+ .3	+2.0	3.0	2.8	1.1
Virginia . . . . .	9.3	9.0	4.4	+ .3	+4.8	.9	.9	.5
Washington . . . . .	71.9	73.9	31.5	-2.0	+40.3	8.7	8.9	3.8
West Virginia . . . . .	7.9	7.6	6.4	+ .3	+1.5	2.2	2.1	1.8
Wisconsin . . . . .	30.3	26.7	11.0	+3.6	+19.3	2.6	2.3	1.0
Wyoming . . . . .	.6	.6	.4	-	+ .2	.8	.8	.6

<sup>1</sup>Based on unrounded data; changes of less than 50 not shown.

<sup>2</sup>Include data under the program for Puerto Rico's sugarcane workers. Rates exclude the sugarcane workers as comparable covered employment data are not yet available.

\*Excludes insured unemployment under extended duration provisions of regular State laws.

\*\* Revised.

F-2: Insured unemployment<sup>1</sup> in 150 major labor areas<sup>2</sup>

(In thousands, for week including the 12th of the month)

State and area	Oct. 1970	Oct. 1969	State and area	Oct. 1970	Oct. 1969	State and area	Oct. 1970	Oct. 1969	State and area	Oct. 1970	Oct. 1969
<b>ALABAMA</b>			<b>INDIANA</b>			<b>NEW HAMPSHIRE</b>			<b>Pennsylvania--continued</b>		
Birmingham.....	5.1	2.6	Evansville.....	1.3	.7	Manchester.....	.9	.4	York.....	1.9	.6
Mobile.....	2.4	1.6	Ft. Wayne.....	1.7	.3						
			Gary-Hammond..	2.6	.8	<b>NEW JERSEY</b>			<b>PUERTO RICO*</b>		
<b>ARIZONA</b>			Indianapolis....	6.9	1.8	Atlantic City....	2.9	1.8	Mayaguez.....	2.3	1.8
Phoenix.....	7.3	2.4	South Bend.....	2.6	.9	Jersey City.....	11.8	7.4	Ponce.....	2.3	2.2
			Terre Haute.....	1.0	.2	Newark.....	22.5	13.0	San Juan.....	6.3	4.3
			<b>IOWA</b>			New Brunswick..	8.5	4.4			
<b>ARKANSAS</b>			Cedar Rapids....	.8	.1	Paterson.....	17.9	10.3			
Little Rock.....	1.3	.6	Des Moines.....	1.0	.7	Trenton.....	2.2	1.2			
			<b>KANSAS</b>			<b>NEW MEXICO</b>			<b>RHODE ISLAND</b>		
<b>CALIFORNIA</b>			Wichita.....	7.4	1.8	Albuquerque....	3.2	1.7	Providence.....	14.3	7.2
Anaheim-S. Ana-			<b>KENTUCKY</b>			<b>NEW YORK</b>			<b>SOUTH CAROLINA</b>		
Garden Grove..	21.0	9.1	Louisville.....	5.5	2.6	Albany.....	4.5	2.3	Charleston.....	1.4	.9
Fresno.....	3.9	2.4				Binghamton....	2.7	.9	Greenville.....	2.1	.9
Los Angeles....	126.0	62.7	<b>LOUISIANA</b>			Buffalo.....	19.5	5.2			
Sacramento.....	7.6	6.5	Baton Rouge....	1.8	1.3	New York.....	143.0	84.8			
San Bernardino.	12.6	7.6	New Orleans....	7.6	5.3	Rochester.....	12.0	2.2	<b>TENNESSEE</b>		
San Diego.....	17.6	7.9	Shreveport.....	2.1	.9	Syracuse.....	6.0	2.1	Chattanooga....	2.0	1.2
San Francisco..	40.6	23.7	<b>MAINE</b>			Utica.....	3.5	1.8	Knoxville.....	3.2	1.4
San Jose.....	14.8	6.5	Portland.....	1.1	.6	<b>NORTH CAROLINA</b>			Memphis.....	3.4	2.6
Stockton.....	3.5	2.8	<b>MARYLAND</b>			Asheville.....	1.0	.5	Nashville.....	3.3	1.4
<b>COLORADO</b>			Baltimore.....	14.1	6.7	Charlotte.....	1.8	.8	<b>TEXAS</b>		
Denver.....	3.3	1.8	<b>MASSACHUSETTS</b>			Durham.....	.6	.4	Austin.....	.6	.3
			Boston.....	33.1	17.6	Greensboro--			Beaumont.....	2.7	1.2
<b>CONNECTICUT</b>			Brockton.....	2.3	1.3	Winston-Salem..	2.8	1.0	Corpus Christi..	1.7	.6
Bridgeport.....	7.8	3.4	Fall River.....	3.1	2.3	<b>OHIO</b>			Dallas.....	8.4	1.5
Hartford.....	7.6	4.6	Lawrence.....	5.7	3.1	Akron.....	3.8	1.3	El Paso.....	1.7	1.3
New Britain....	2.8	1.3	Lowell.....	3.6	1.8	Canton.....	2.5	.7	Ft. Worth.....	4.0	.8
New Haven.....	5.3	2.4	New Bedford....	5.5	2.2	Cincinnati.....	6.4	2.4	Houston.....	4.7	1.8
Stamford.....	2.0	.9	Springfield....	7.3	4.2	Cleveland.....	14.4	3.2	San Antonio.....	2.9	1.5
Waterbury.....	5.4	2.2	Worcester.....	4.2	2.2	Columbus.....	3.0	1.4	<b>UTAH</b>		
			<b>MICHIGAN</b>			Dayton.....	7.2	1.0	Salt Lake City..	3.4	2.6
<b>DELAWARE</b>			Battle Creek....	2.0	.6	Hamilton.....	1.5	.4			
Wilmington.....	3.6	1.8	Detroit.....	56.7	14.6	Lorain.....	1.8	.4	<b>VIRGINIA</b>		
			Flint.....	8.3	2.0	Steubenville...	.8	.3	Hampton.....	1.1	.6
<b>DIST. OF COL.</b>			Grand Rapids...	6.0	2.4	Toledo.....	5.4	1.0	Norfolk.....	1.2	.8
Washington.....	9.2	5.1	Kalamazoo.....	2.4	.6	Youngstown....	7.5	.8	Richmond.....	.6	.3
			Lansing.....	3.4	.9	<b>OKLAHOMA</b>			Roanoke.....	.4	.2
<b>FLORIDA</b>			Muskegon.....	3.5	1.0	Oklahoma City..	2.7	1.6			
Jacksonville....	.7	.6	Saginaw.....	5.3	.5	Tulsa.....	3.2	1.6	<b>WASHINGTON</b>		
Miami.....	10.1	5.6	<b>MINNESOTA</b>			<b>OREGON</b>			Seattle.....	46.0	15.1
Tampa.....	4.8	2.6	Duluth.....	1.1	.7	Portland.....	11.9	5.5	Spokane.....	4.3	2.2
			Minneapolis....	11.8	1.6	<b>PENNSYLVANIA</b>			Tacoma.....	7.8	3.4
<b>GEORGIA</b>			<b>MISSISSIPPI</b>			Allentown.....	4.7	2.3	<b>WEST VIRGINIA</b>		
Atlanta.....	6.8	2.8	Jackson.....	.6	.3	Altoona.....	1.5	.7	Charleston.....	.9	.7
Augusta.....	1.5	.7	<b>MISSOURI</b>			Erie.....	1.8	.6	Huntington.....	1.7	1.1
Columbus.....	1.3	.6	Kansas City....	8.4	4.0	Harrisburg.....	1.9	.9	Wheeling.....	1.0	.7
Macon.....	.9	.5	St. Louis.....	21.7	11.2	Johnstown.....	3.7	1.5			
Savannah.....	1.4	.3	<b>NEBRASKA</b>			Lancaster.....	1.4	.5	<b>WISCONSIN</b>		
			Omaha.....	2.5	1.1	Philadelphia...	49.3	21.9	Kenosha.....	.6	.3
<b>HAWAII</b>						Pittsburgh.....	19.2	8.6	Madison.....	.9	.3
Honolulu.....	5.8	3.5				Reading.....	3.0	.9	Milwaukee.....	12.6	3.7
						Scranton.....	4.1	2.4	Racine.....	1.4	.4
<b>ILLINOIS</b>						Wilkes-Barre...	5.9	3.7			
Chicago.....	39.4	16.6									
Davenport.....	3.2	2.2									
Peoria.....	1.3	.7									
Rockford.....	2.6	.8									

<sup>1</sup>Insured jobless under State, Federal Employee, and Ex-Servicemen's unemployment insurance programs.<sup>2</sup>For full name of labor area, see Area Trends in Employment and Unemployment published by the Manpower Administration.

\*Excludes insured unemployed under extended duration provisions of regular State laws.

# Technical Note

The statistics in this periodical are compiled from three major sources: (1) household interviews, (2) reports from employers, and (3) administrative statistics of unemployment insurance systems.

*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, color, marital status, occupations, hours of work, and duration of unemployment. 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 50,000 households, representing 449 areas in 863 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 surveys are designed to provide detailed industry information on nonagricultural wage and salary employment, average weekly hours, average hourly and weekly earnings, job vacancies, and labor turnover for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are based on payroll reports from a sample of establishments employing about 30 million nonagriculture wage and salary workers. The data relate to all workers, full- or part-time, who received pay during the payroll period which includes the 12th of the month. Based on a somewhat smaller sample, labor turnover data relate to actions occurring during the month while job vacancies pertain to those outstanding at the end of the month.

*Data based on administrative records of unemployment insurance systems* furnish a complete count of insured unemployment among the two-thirds of the Nation's labor force covered by unemployment insurance programs. Weekly reports, by State, are issued on the number of initial claims, the volume, and rate of insured unemployment under State unemployment insurance programs, and the volume under programs of unemployment compensation for Federal employees, ex-servicemen, and railroad workers. These statistics are published by the Manpower Administration, U.S. Department of Labor, in "Unemployment Insurance Claims."

## Relation between the household and establishment series

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

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

## Employment

*Coverage.* The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, and unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises. Employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of 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 records, persons who worked in more than one establishment during the reporting period are counted each time their names appear on payrolls.

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

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

## Hours of Work

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

## Comparability of the household interview data with other series

*Unemployment insurance data.* The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, regardless of whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Manpower Administration of the Department of Labor, exclude persons who have exhausted their benefit

rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (agriculture, State and local government, domestic service, self-employment, unpaid family work, nonprofit organizations, and firms below a minimum size).

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.

*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 worked on more than one farm during the reporting period. There are also wide differences in sampling techniques and collecting and estimating methods, which cannot be readily measured in terms of impact on differences in level and trend of the two series.

#### **Comparability of the payroll employment data with other series**

*Statistics on manufactures and business, Bureau of the Census.* BLS establishment statistics on employment differ from employment counts derived by the Bureau of the Census from its censuses or annual sample surveys of manufacturing establishments and the censuses of business establishments. The major reasons for some noncomparability are different treatment of

business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes contract construction, professional services, public utilities, and financial establishments, whereas these are included in BLS statistics.

*County Business Patterns.* Data in County Business Patterns, published jointly by the U.S. Departments of Commerce and Health, Education, and Welfare, 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.* Not all nonagricultural wage and salary workers are covered by the unemployment insurance programs. All workers in certain activities, such as interstate railroads, are excluded. In addition, small firms in covered industries are also excluded in 28 States (as of January 1, 1970). In general, these are establishments with less than four employees.

Additional information concerning the preparation of the labor force, employment, hours, earnings, job vacancy, and labor turnover series—concepts and scope, survey methods, and limitations—is contained in technical notes for each of these series, available from the Bureau of Labor Statistics free of charge.

## **Labor Force Data**

### **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 Manpower Statistics from the Current Population Survey”* (BLS Report 313). This report is available from BLS on request.

These monthly surveys of the population are conducted with a scientifically selected sample designed to represent the civilian noninstitutional population 16 years and over. Respondents are interviewed to obtain information about the employment status of each member of the household 16 years of age and over. 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 and persons under 16 years of age are not covered in the regular monthly enumerations and are excluded from the population and labor force statistics shown

in this report. Data on members of the Armed Forces, who are included as part of the categories “total noninstitutional population” and “total labor force,” are obtained from the Department of Defense.

Each month, 50,000 occupied units are designated for interview. About 2,250 of these households are visited but interviews are not obtained because the occupants are not found at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of about 4.5 percent. In addition to the 50,000 occupied units, there are 8,500 sample units in an average month which are visited but found to be vacant or otherwise not to be enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year ago.

### **CONCEPTS**

*Employed persons* comprise (a) all those who during the survey week did any work at all as paid employees, in their

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

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

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

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

*Unemployed persons* comprise all persons who did not work during the survey week, who made specific efforts to find a job within the past 4 weeks, and who were available for work during the survey week (except for temporary illness). Also included as unemployed are those who did not work at all, were available for work, and (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. Average duration is an arithmetic mean computed from a distribution by 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 who 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.

*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, color, 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 civilian labor force and civilian

noninstitutional population. Participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as color and educational attainment.

*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 latest full-time civilian job lasting 2 weeks or more. The occupation and industry groups used in data derived from the CPS household interviews are defined as in the 1960 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 governmental 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 Veterans Day holiday would be reported as working 32 hours even though he was paid for the holiday.

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

The distribution of employment by hours worked relate to persons "at work" during the survey week. At-work data differ from data on total employment because the latter include persons in zero-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"; persons who worked between 1 and 34 hours are designated as working "part time." Part-time workers are classified by their usual status at their present job

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

**Full- and part-time labor force.** The *full-time labor force* consists of persons working on full-time schedules, persons involuntarily working part time (because full-time work is not available), 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 man-hours lost to the economy through unemployment and involuntary part-time employment and is expressed as a percent of potentially available man-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 Negro and other races** are terms used to describe the color or race of workers. The Negro and other races category, which had formerly been identified as "nonwhite," includes all persons who are observed in the enumeration process to be other than white. At the time of the 1960 Census of Population, approximately 92 percent of the Negro and other races population group were Negro; the remainder were American Indians, Eskimos, Orientals, and other nonwhites. Tables in this volume which contain these data utilize the word "color" to so indicate.

## ESTIMATING METHODS

Under the estimation 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.

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 for other reasons. This adjustment is made separately by groups of sample areas and, within these, for six groups—color (white and Negro and other races) within the three residence categories (urban, rural nonfarm, and rural farm). The proportion of sample households not interviewed varies from 4 to 6 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 Nation as a whole, in such characteristics as age, color, sex, and residence. Since these population 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.** This is a procedure in which the sample proportions are weighted by the known 1960 Census data on the color-residence distribution of the population. This step takes into account the differences existing at the time of the 1960 Census between the color-residence distribution for the Nation and for the sample areas.

b. **Second-stage ratio estimate.** In this step, the sample proportions are weighted by independent current estimates of the population by age, sex, and color. These estimates are prepared by carrying forward the most recent census data (1960) to take account of subsequent aging of the population, mortality, and migration between the United States and other countries.

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. This procedure reduces the sampling variability of month-to-month changes especially and of the levels for most items also.

## 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

Since the estimates are based on a sample, they may differ from the figures that would have been obtained if it were possible to take a complete census using the same schedules and procedures.

The standard error is a measure of sampling variability, that is, the variations that might occur by chance because only a sample of the population is surveyed. The chances are about 2 out of 3 that an estimate from the sample would differ from a complete census by less than the standard error. The chances are about 19 out of 20 that the difference would be less than twice the standard error.

Table A shows the average standard error for the major employment status categories, by sex, computed from data for past months. Estimates of change derived from the survey are also subject to sampling variability. The standard error of change for consecutive months is also shown in table A. The standard errors of level shown in table A are acceptable approximations of the standard errors of year-to-year change.

The figures presented in table B are to be used for other characteristics and are approximations of the standard errors of all such characteristics. They should be interpreted as providing an indication of the order of magnitude of the standard errors rather than as the precise standard error for any specific item.

The standard error of the change in an item from one month to the next month is more closely related to the standard error of the monthly level for that item than to the size of the specific



**Table A. Average standard error of major employment status categories**

(In thousands)

Employment status and sex	Average standard error of--	
	Monthly level	Month-to-month change (consecutive months only)
<b>BOTH SEXES</b>		
Labor force and total employment . . . . .	190	145
Agriculture . . . . .	120	100
Nonagricultural employment . . . . .	200	150
Unemployment . . . . .	75	80
<b>MALE</b>		
Labor force and total employment . . . . .	100	75
Agriculture . . . . .	95	80
Nonagricultural employment . . . . .	120	95
Unemployment . . . . .	60	60
<b>FEMALE</b>		
Labor force and total employment . . . . .	150	115
Agriculture . . . . .	50	40
Nonagricultural employment . . . . .	150	115
Unemployment . . . . .	50	55

**Table B. Standard error of level of monthly estimates**  
(In thousands)

Size of estimate	Both sexes		Male		Female	
	Total or white	Negro and other races	Total or white	Negro and other races	Total or white	Negro and other races
10 . . . . .	4	4	6	4	6	4
50 . . . . .	9	9	11	9	11	9
100 . . . . .	12	12	16	12	16	12
250 . . . . .	20	17	25	17	25	17
500 . . . . .	30	25	34	25	34	25
1,000 . . . . .	40	35	50	35	50	35
2,500 . . . . .	60	40	75	40	75	40
5,000 . . . . .	85	45	90	—	90	—
10,000 . . . . .	115	—	115	—	115	—
20,000 . . . . .	150	—	125	—	125	—
30,000 . . . . .	170	—	—	—	—	—
40,000 . . . . .	180	—	—	—	—	—

month-to-month change itself. Thus, in order to use the approximations to the standard errors of month-to-month changes as presented in table C, it is first necessary to obtain the standard error of the monthly level of the item in table B, and then find

the standard error of the month-to-month change in table C corresponding to this standard error of level. It should be noted that table C applies to estimates of change between 2 consecutive months. For changes between the current month and the same month last year, the standard errors of level shown in table B are acceptable approximations.

*Illustration:* Assume that the tables showed the total number of persons working a specific number of hours as 15,000,000, an increase of 500,000 over the previous month. Linear interpolation in the first column of table B shows that the standard error of 15,000,000 is about 133,000. Consequently, the chances are about 68 out of 100 that the sample estimate differs by less than 133,000 from the figure which would have been obtained from a complete count of the number of persons working the given number of hours. Using the 133,000 as the standard error of the monthly level in table C, it may be seen that the standard error of the 500,000 increase is about 126,000.

**Table C. Standard error of estimates of month-to-month change**  
(In thousands)

Standard error of monthly level	Standard error of month-to-month change
10 . . . . .	12
25 . . . . .	28
50 . . . . .	55
100 . . . . .	100
150 . . . . .	140
200 . . . . .	155
250 . . . . .	160
300 . . . . .	190

The reliability of an estimated percentage, computed by using sample data for both numerator and denominator, depends upon both the size of the percentage and the size of the total upon which the percentage is based. Where the numerator is a subclass of the denominator, estimated percentages are relatively more reliable than the corresponding absolute estimates of the numerator of the percentage, particularly if the percentage is large (50 percent or greater). Table D shows the standard errors for percentages derived from the survey. Linear interpolation may be used for percentages and base figures not shown in table D.

**Table D. Standard error of percentage**

Base of percentages (thousands)	Estimated percentage								
	1 or 99	2 or 98	5 or 95	10 or 90	15 or 85	20 or 80	25 or 75	35 or 65	50
150 . . . . .	0.8	1.2	1.8	2.5	2.9	3.3	3.4	3.9	4.0
250 . . . . .	.7	.8	1.4	1.9	2.3	2.5	2.8	3.0	3.2
500 . . . . .	.5	.7	1.0	1.4	1.6	1.8	1.9	2.1	2.3
1,000 . . . . .	.3	.4	.7	1.0	1.2	1.4	1.4	1.6	1.6
2,000 . . . . .	.3	.3	.5	.7	.7	.8	1.0	1.1	1.2
3,000 . . . . .	.2	.3	.4	.7	.7	.7	.8	.8	1.0
5,000 . . . . .	.2	.2	.3	.4	.5	.7	.7	.7	.7
10,000 . . . . .	.1	.2	.3	.3	.3	.4	.4	.5	.5
25,000 . . . . .	.1	.1	.2	.2	.3	.3	.3	.3	.3
50,000 . . . . .	.1	.1	.1	.2	.2	.2	.2	.3	.3
75,000 . . . . .	.1	.1	.1	.1	.2	.2	.2	.2	.2

# Establishment Data

## COLLECTION

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

### Federal-State Cooperation

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

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

### Shuttle Schedules

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

Form BLS 790 provides for entry of data on the number of full- and part-time workers on the payrolls of nonagricultural establishments and, for most industries, payroll and man-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 three job vacancy items as of the end of the month: current job vacancies, (i.e., vacancies available for immediate filling), current vacancies which have remained unfilled for 30 days or more, and openings with future starting dates.

## CONCEPTS

### Industrial Classification

Establishments reporting on Form BLS 790 and Form DL 1219 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. This information is collected each year on a supplement to the monthly 790 or 1219 report. For an

establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the industry indicated by the most important product or activity.

All national, State, and area employment, hours, earnings, job vacancy, and labor turnover series are classified in accordance with the *Standard Industrial Classification Manual*, Bureau of the Budget, 1967.

### 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.

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 and are unemployed or on strike during the rest of the period, are counted as employed. Not counted as employed are persons who are laid off, on leave without pay, or on strike for the entire period or who are hired but have not reported to work during the period.

### Industry Hours and Earnings

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

*Production and related workers* include working foremen and all nonsupervisory workers (including leadmen and trainees) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping, maintenance, repair, janitorial and watchman 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 contract construction division: working foremen, journeymen, 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 work-

ers, repairmen, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aids, teachers, draftsmen, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, linemen, laborers, janitors, watchmen, and similar occupational levels, and other employees 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 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.

*Man-hours* cover man-hours paid for, during the pay period which includes the 12th of the month, for production, construction, or nonsupervisory workers. The man-hours include hours paid for holidays and vacations, and for sick leave when pay is received directly from the firm.

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

#### Gross Average Hourly and Weekly Earnings

Average hourly earnings are on a "gross" basis, reflecting 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. Shifts in the volume of employment between relatively high-paid and low-paid work and changes in workers' earnings in individual establishments also affect the general earnings averages. 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 amounts stipulated for a given unit of work or time. The earnings series does not measure the level of total labor costs on the part of the employer since the following are excluded: irregular bonuses, retroactive items, payments of various welfare benefits, payroll taxes paid by employers, and earnings for those employees not covered under the production-worker, construction-worker, or nonsupervisory-employee definitions.

Gross average weekly earnings are derived by multiplying average weekly hours by average hourly earnings. Therefore, weekly earnings are affected not only by changes in gross average hourly earnings but also by changes in the length of the workweek, part-time work, stoppages for varying causes, labor turnover, and absenteeism.

#### 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 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 were in excess of regular hours and for which overtime premiums were paid. If an employee worked on a paid holiday at regular rates, receiving as total compensation his holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.

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

#### Hours and Earnings for Total Private Nonagricultural Industries

This series covers all nonagricultural industry divisions except government. The principal source of payroll data is Form BLS 790. Secondary source material such as *Employment and Wages* (Manpower Administration), *County Business Patterns* (Bureau of the Census), and additional supporting information such as *The Hospital Guide*, Part II, of the American Hospital Association and special studies by the National Council of Churches supplement data for certain industry groups within the service division.

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

#### Railroad 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 gross weekly earnings. The amount of income tax liability depends on the number of dependents supported by the worker and his marital status, as well as on the level of his gross income. To reflect these variables, spendable earnings are computed for a worker with no dependents and a married worker with three dependents. 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.

"Real" earnings are computed by dividing the current Consumer Price Index into the earnings averages for the current month. This is done for gross average weekly earnings and for spendable average weekly earnings. The level of earnings is thus adjusted for changes in purchasing power since the base period (1957-59).

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

### Indexes of Aggregate Weekly Payrolls and Man-Hours

The indexes of aggregate weekly payrolls and man-hours are prepared by dividing the current month's aggregate by the monthly average for the 1957-59 period. The man-hour aggregates are the product of average weekly hours and production-worker employment, and the payroll aggregates are the product of gross average weekly earnings and production-worker employment.

### 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. Transfers to another establishment of the company are included, beginning with January 1959.

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

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

*Other accessions*, which are not published separately but are included in total accessions, are all additions to the employment roll which are not classified as new hires, including transfers from another establishment of the company.

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

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

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

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

### Relationship of Labor Turnover to Employment Series

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

### Job Vacancies

Job vacancies are the stock of unfilled job openings as of the close of the last business day of the reference month. Openings for all kinds of positions, classifications and employment, full-time, part-time, permanent, temporary, and seasonal are included. Excluded are jobs to be filled by recall from layoff, transfer, promotion, demotion or return from paid or unpaid leave; jobs unoccupied because of labor-management disputes; job openings for which "new" workers were already hired and scheduled to start work later; and openings with future starting dates, which are requested as a separate item.

*Job vacancies* are defined as vacant jobs which are immediately available for filling, and for which the firm is actively trying to find or recruit workers from outside the firm.

"Actively trying to find or recruit" means that the establishment is engaged in current efforts to fill the job vacancies by means of orders listed with public or private employment agencies and school placement offices; notification to labor unions and professional organizations; "help wanted" advertising (newspaper, posted notice, etc.) recruitment programs; and interview and selection of applicants.

*Long-term job vacancies* are those current vacancies which have continued unfilled for 30 days or more.

The reporting establishment is also asked to indicate the number of openings with future starting dates for which the firm is actively trying to recruit workers from outside the firm.

Job openings with future starting dates may exist for such reasons as: job unavailable until expected separation of present incumbent occurs; work will not start until some future date; new branch to be opened in the future; or anticipated increase in business.

The *job vacancy rate* is computed by dividing the number of job vacancies by the sum of employment plus vacancies, and multiplying that quotient by 100.

*Occupational classifications* are made in accordance with those established in the *Dictionary of Occupational Titles*, Third Edition, U.S. Department of Labor, 1965.

## ESTIMATING METHODS

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

### The "Link Relative" Technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of current month employment to that of the previous month is computed. This is called a link relative. The estimates of employment (all employees, including production and nonproduction workers together) for the current month are obtained by multiplying the estimates for the previous month by these "link relatives." In addition, small bias correction factors are applied to selected employment estimates each month. The size of the bias correction factors is determined from past experience. Other features of the general procedures are described later in table K, Summary of Methods for Computing Industry Statistics on Employment, Hours, Earnings, Job Vacancies, and Labor Turnover. Further details are given in the technical notes—Chapter 2, Employment, Hours and Earnings, and Chapter 3, Labor Turnover, reprinted from the *Handbook of Methods for Surveys and Studies*, BLS Bulletin 1458—which are available upon request.

### Size and Regional Stratification

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

### Benchmark Adjustments

Employment estimates are compared periodically with comprehensive counts of employment which provide "benchmarks" for the various nonagricultural industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1969 levels. Normally, benchmark adjustments are made annually.

The primary sources of benchmark information are employment data, by industry, compiled quarterly by State agencies

from reports of establishments covered under State unemployment insurance laws. These tabulations, covering three-fourths of the total nonagricultural employment in the United States, are prepared under the direction of the Manpower Administration. 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 relating to the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates 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 in the last 3 benchmark years as shown in table E.

**Table E. Nonagricultural payroll employment estimates, by industry divisions, as a percentage of the benchmark for 1967-1969**

Industry division	1967	1968	1969
Total . . . . .	100.0	100.4	99.8
Mining . . . . .	99.5	101.7	101.5
Contract construction . .	101.6	99.5	99.0
Manufacturing . . . . .	99.5	99.8	99.8
Transportation and public utilities . . . . .	99.8	100.7	100.4
Wholesale and retail trade . . . . .	100.7	100.3	100.0
Finance, insurance, and real estate . . . . .	100.2	99.2	100.0
Services . . . . .	99.8	99.2	99.1
Government . . . . .	100.0	102.8	100.1

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

## THE SAMPLE

### Design

The sampling plan used in the current employment statistics program is known as "sampling proportionate to average size of establishment." This design is an optimum allocation design among strata since the sampling variance is proportional to the average size of establishments. The universe of establishments is stratified first by industry and then within each industry by size of establishment in terms of employment. For each industry, the number of sample units is distributed among the size class cells on the basis of average employment per establishment in each cell. In practice, this is equivalent to distributing the predetermined total number of establishments required in the sample among the cells on the basis of the ratio of employment in each

cell to total employment in the industry. Within each noncertainty stratum the sample members are selected at random.

Under this type of design, large establishments fall into the sample with certainty. The size of the samples for the various industries is determined empirically on the basis of experience and of cost considerations. In a manufacturing industry in which a high proportion of total employment is concentrated in relatively few establishments, a large percentage of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the larger 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 smaller ones. Many industries in the trade and service divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to accept samples in these divisions 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 establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.

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

#### Coverage

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

#### Reliability of the Employment Estimates

The estimates derived from the establishment survey may differ from the figures that would have been obtained if it were possible to take a complete census using the same schedules and procedures. The relatively large size of the BLS establishment sample assures a high degree of accuracy. However, since the link relative technique requires the use of the previous month's estimate as the base in computing the current month's estimate, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are adjusted annually to new benchmarks. In addition to the sampling

**Table F. Approximate size and coverage of BLS employment and payrolls sample, March 1969**<sup>1</sup>

Industry division	Number of establishments in sample	Employees	
		Number reported	Per cent of total
Mining . . . . .	2,300	297,000	49
Contract construction . . .	16,400	773,000	25
Manufacturing . . . . .	47,000	12,550,000	63
Transportation and public utilities:			
Railroad transportation (ICC) . . . . .	100	590,000	92
Other transportation and public utilities . . . . .	7,100	2,082,000	56
Wholesale and retail trade . .	40,000	2,813,000	20
Finance, insurance, and real estate . . . . .	9,600	1,243,000	36
Services . . . . .	23,500	2,377,000	22
Government:			
Federal (Civil Service Commission) <sup>2</sup> . . . . .	3,300	2,737,000	100
State and local . . . . .	9,600	5,065,000	53

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

<sup>2</sup> State and area estimates of Federal employment are based on reports from a sample of Federal establishments, collected through the BLS-State cooperative program.

**Table G. Approximate size and coverage of BLS job vacancy labor turnover sample March 1969**

Industry	Employees	
	Number reported	Percent of total
Manufacturing <sup>1</sup> . . . . .	10,448,400	52
Metal mining . . . . .	64,400	72
Coal mining . . . . .	59,000	44
Communication:		
Telephone . . . . .	605,200	71
Telegraph . . . . .	22,400	69

<sup>1</sup> Since some establishments do not report the information, job vacancy estimates currently are based on reports from approximately 90 percent of the sample establishments covering about 43 percent of universe employment.

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, generally minor, arises from improvements in the quality of the benchmark data. (A detailed description of the March 1969 benchmark is available from the Bureau upon request.)

One measure of the reliability of ratio estimates is the root-mean-square error (RMSE). This 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 experience of the last several years) of differences between final estimates and benchmarks are presented in table H.

**Table H. Root-mean-square errors of differences between benchmarks and estimates**

Size of employment estimate	Root-mean-square error <sup>1</sup>
50,000	2,000
100,000	2,800
200,000	3,800
500,000	7,500
1,000,000	11,200
2,000,000	17,500

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

For the 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 I. 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 .1 of an hour for weekly hours of 1 cent for hourly earnings.

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

Size of employment estimate	Root-mean-square error of	
	Monthly level	Month-to-month change
50,000	700	600
100,000	900	800
200,000	1,800	1,700
500,000	3,000	2,900
1,000,000	5,000	5,000
2,000,000	9,700	9,400
10,000,000	31,400	30,600
Total nonagricultural employment	88,000	80,000

#### Reliability of Job Vacancy Estimates

As with the employment estimates, the estimates derived from the job vacancy survey may differ from the figures that

would have been obtained if it were possible to take a complete census using the same schedules and procedures.

Measures of reliability for the job vacancy estimates are given by the relative errors in table J. A relative error is standard error expressed as a percent of the estimate. The chances are about 2 out of 3 that an estimate from the sample would differ from a complete census by a smaller percentage than the relative error. The chances are about 19 out of 20 that the difference would be a smaller percentage than twice the relative error.

**Table J. Relative errors of estimates of job vacancy data**

Industry	Relative error <sup>1</sup> (In percent)
Manufacturing . . . . .	2
Durable goods industries . . . . .	3
Nondurable goods industries . . . . .	3
Selected durable goods industries	
Primary metal industries . . . . .	8
Machinery, except electrical . . . . .	5
Electrical equipment & supplies . . . . .	9
Transportation equipment . . . . .	11
Instruments & related products . . . . .	16
Selected nondurable goods industries	
Textile mill products . . . . .	4
Apparel and other textile products . . . . .	4
Printing & publishing . . . . .	14
Chemicals & allied products . . . . .	8

<sup>1</sup> Expressed as a percent of the estimate.

#### STATISTICS FOR STATES AND AREAS

State and area employment, hours, earnings, job vacancy, 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.

## Unemployment Insurance Data

Insured unemployment represents the number of persons reporting a week of unemployment under an unemployment insurance program. It includes some persons who are working part time who would be counted as employed in the payroll and household surveys. Excluded are persons who have exhausted their benefit rights and workers who have not earned rights to unemployment insurance. In general, excluded from coverage are those persons who worked in firms whose size excluded them from the unemployment insurance laws, as well as many persons engaged in agriculture, domestic service, unpaid family work, selected nonprofit organizations, State and local government and self-employment. Also excluded from the insured unemployment count, but included as employed in the household survey, are those persons who earned no wages during the payroll period because they were temporarily absent from their jobs due to taking time off, illness and industrial disputes as well as

unpaid vacations. The rate of insured unemployment is the number of insured unemployed expressed as a percent of average covered employment in a 12-month period ending 6 to 8 months prior to the week of reference. Initial claims are notices filed by those losing jobs covered by an unemployment insurance program that they are starting a period of unemployment. A claimant who continues to be unemployed a full week is then counted in the insured unemployment figure.

Because of differences in State laws and procedures under which unemployment insurance programs are operated, State unemployment rates generally indicate, but do not precisely measure, differences among the individual States. Persons wishing to receive a detailed description of the nature, sources, inclusions and exclusions, and limitations of unemployment insurance data should address their inquiries to Manpower Administration, Washington, D.C. 20210.

## Seasonal Adjustments

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

The seasonal adjustment method used for these series is an adaptation of the standard ratio-to-moving average method, with a provision for “moving” adjustment factors to take account of changing seasonal patterns. A detailed description of the method is given in the booklet, *The BLS Seasonal Factor Method* (1966), which may be obtained from the Bureau on request.

For establishment data, the seasonally adjusted series on weekly hours and labor turnover rates for industry groupings are computed by applying factors directly to the corresponding unadjusted series. However, seasonally adjusted employment totals for all employees and production workers by industry division are obtained by summing seasonally adjusted data for the component industries. Indexes of aggregate weekly man-hours, seasonally adjusted, for mining, contract construction, and the

major industries in manufacturing are obtained by multiplying average weekly hours, seasonally adjusted, by production workers, seasonally adjusted, and dividing by the 1957-59 base. For total, manufacturing, and durable and nondurable goods the indexes of aggregate weekly man-hours, seasonally adjusted, are obtained by summing the aggregate weekly man-hours, seasonally adjusted, for the appropriate component industries and dividing by the 1957-59 base.

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

The revised seasonally adjusted series for the establishment data reflect experience through February 1970. Seasonal factors to be used for current adjustment are shown in the June 1970 *Employment and Earnings*, and revisions will be made coincidental with the adjustment of series to new benchmark levels.

For each of the three major labor force components—agricultural and nonagricultural employment and unemployment—data for four age-sex groups (male and female workers under age 20 and age 20 and over) are separately adjusted for seasonal variation and are then added to give seasonally adjusted total figures. In order to produce seasonally adjusted total employment and civilian labor force data, the appropriate series are aggre-



gated. The seasonally adjusted rate of unemployment is derived by dividing the seasonally adjusted figure for total unemployment (the sum of four seasonally adjusted age-sex components) by the figure for the seasonally adjusted civilian labor force (the sum of twelve seasonally adjusted age-sex components).

The seasonal adjustment factors applying to current data are based on a pattern shown by past experience. These factors are revised in the light of the pattern revealed by subsequent data. Revised seasonally adjusted series for major components of the labor force based on data through December 1969 are published

in the February 1970 *Employment and Earnings*. Revisions will be made annually as each additional year's data become available.

The seasonal adjustment method used by BLS requires the use of at least eight years of data, although there are special adjustment programs for as few as three years. Since collection of job vacancy information was begun in January 1969, the data necessary to seasonally adjust this series are not yet available. All job vacancy information published in *Employment and Earnings* is, therefore, on an unadjusted basis.

#### ATTENTION

As discussed in the Technical Note, the Bureau periodically adjusts the industry employment series to a recent benchmark to improve their accuracy. These adjustments may also affect the hours, earnings, job vacancy, and labor turnover series because employment levels are used as weights. Industry data for all national series shown in this report have been adjusted to March 1969 benchmarks. Data from April 1969 forward are subject to revision at the time of the next benchmark.

Beginning with the June 1970 and subsequent issues of *Employment and Earnings*, the national data in Section B, C, and D supersede those published in previous issues, as well as those appearing in the *Handbook of Labor Statistics, 1970*. Comparable data will be published in *Employment and Earnings, United States, 1909-70*, BLS Bulletin 1312-7.

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

Item	Basic estimating cells (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
<b>Monthly Data</b>		
All employees . . . . .	All-employee 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.	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) ratio of women to all employees.	Sum of production- or nonsupervisory-worker estimates, or estimates of women employees, for component cells.
Gross average weekly hours . . . . .	Production- or nonsupervisory-worker man-hours divided by number of production or nonsupervisory workers.	Average, weighted by production- or nonsupervisory-worker employment, of the average weekly hours for component cells.
Average weekly overtime hours . . . . .	Production-worker overtime man-hours divided by number of production workers.	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 man-hours.	Average, weighted by aggregate man-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.
Job vacancy rates . . . . .	The total number of job vacancies in sample establishments divided by the sum of total employment plus the total number of job vacancies. The result is multiplied by 100.	Sum of the total job vacancies in the component cells, weighted by employment, divided by the sum of total employment plus the total number of job vacancies. The result is multiplied by 100.
Long-term job vacancy rates . . . . .	The number of long-term job vacancies in sample establishments divided by the sum of total employment plus the total number of job vacancies. The result is multiplied by 100.	Sum of the long-term job vacancies in the component cells, weighted by employment, divided by the sum of total employment plus the total number of job vacancies. The result is multiplied by 100.
<b>Annual Average Data</b>		
All 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 man-hours (production- or nonsupervisory-worker employment multiplied by average weekly hours) divided by annual sum of employment.	Annual total of aggregate man-hours for production or nonsupervisory workers divided by annual sum of employment for these workers.
Average weekly overtime hours . . . . .	Annual total of aggregate overtime man-hours (production-worker employment multiplied by average weekly overtime hours) divided by annual sum of employment.	Annual total of aggregate overtime man-hours for production workers divided by annual sum of employment for these workers.
Gross average hourly earnings . . . . .	Annual total of aggregate payrolls (production- or nonsupervisory-worker employment multiplied by weekly earnings) divided by annual aggregate man-hours.	Annual total of aggregate payrolls divided by annual aggregate man-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 . . . . .	Sum of monthly rates divided by 12.	Sum of monthly rates divided by 12.
Job vacancy rates . . . . .	Sum of monthly rates divided by 12.	Sum of monthly rates divided by 12.

# UNITED STATES DEPARTMENT OF LABOR

## Bureau of Labor Statistics

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