

EMPLOYMENT AND EARNINGS

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Editors' Note

This issue of Employment and Earnings introduces an entirely revised series of charts, presenting labor force activity over time. The charts reflect a number of improvements which the Bureau hopes will stimulate increased interest in our graphic presentation. The charts are more comprehensive in scope, in that they cover more aspects of the manpower field than heretofore, and include time series previously not published in this volume. In addition, the charts should prove to be more useful for economic analysis, both on a current and long-term basis. The editors welcome all comments, including suggestions for further improvement and expansion of the chart series.

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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.	
Household data									
Annual averages	x								
Revised seasonally adjusted series and current seasonal factors		x							
Quarterly averages	x			x			x	x	
Establishment data									
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, August 1970

The Nation's unemployment rate was essentially unchanged in August, while employment declined on a seasonally adjusted basis.

The overall unemployment rate was 5.1 percent in August, compared with 5.0 percent in July. After rising sharply between December 1969 and May 1970, the unemployment rate has remained at about the same level. Jobless rates for most major groups in the labor force showed little or no change in August, although the rate for teenagers moved up sharply over the month.

Nonagricultural payroll employment declined by 90,000 in August, seasonally adjusted, the fourth monthly reduction in the last 5 months. The drop occurred almost entirely in manufacturing and construction; employment in the two industries has fallen by 1.1 million over the past year.

Unemployment

The number of unemployed workers totaled 4.2 million in August, down 300,000 from July. The reduction was about in line with the usual July-August pattern, and thus after seasonal adjustment unemployment was not significantly changed from the July level.

Although unemployment rates for most major labor force groups were little changed in August, the jobless rate for teenagers increased significantly, from 13.9 to 15.9 percent; most of this rise occurred among white girls. This brought the teenage rate to its highest point since April 1965.

For adult women (20 years and over), the unemployment rate edged down in August, from 5.0 to 4.8 percent. The jobless rates for all adult men (3.7 percent) and married men (2.8 percent) were essentially unchanged over the month. However, both rates have moved up since late 1969 and were at or near their highest levels in 5 years.

The unemployment rate for all full-time workers, at 4.7 percent, was unchanged in August. The rate for part-time workers edged up from 7.4 to 8.0 percent, the highest level since the series began in 1963. The August rise in the part-time rate reflected increased joblessness among teenagers. Over the year, however, the rate for full-time workers has increased much more rapidly than for part-time workers.

Jobless rates for both white (4.8 percent) and Negro workers (8.4 percent) were essentially unchanged in August. As a result, the ratio of Negro-to-white joblessness remained below the 2-to-1 pattern that has prevailed for many years. August marked the tenth month out of the last 12 in which this has occurred.

Among the occupational groups, there was a substantial decline in the jobless rate for white-collar workers. After reaching its highest level in nearly 10 years in July, the rate dropped in August from 3.1 to 2.7 percent. Within this broad group, declines occurred among professional, managerial, and clerical workers, while the rate for sales workers was unchanged.

By way of contrast, jobless rates for blue-collar workers continued to rise in August, moving from 6.6 to 7.0 percent, due primarily to increased joblessness among operatives, whose rate rose to 7.9 percent. The rate for nonfarm laborers, at 10.2 percent, remained at the 10-percent level for the third straight month. Both rates were at 5-year highs.

The jobless rate for workers who were last employed in construction moved up to 12.2 percent in August, the fourth consecutive month in which this rate has exceeded 10 percent. Unemployment rates were about unchanged over the month in most other major industry divisions.

The unemployment rate for workers covered by State unemployment insurance programs rose

to 3.7 percent, a return to the June level following a drop in July. The August 1970 rate compares with a rate of 2.1 percent last August.

The number of persons unemployed 15 weeks or more reached 735,000 in August, nearly double the level of last August. However, the average (mean) duration of unemployment fell from 9.3 to 8.8 weeks (seasonally adjusted) as a result of the increased short-term joblessness among teenagers. Since August 1969, the average duration has risen by 1 week.

Over the year, total unemployment has increased by 1.4 million—735,000 adult men, 340,000 adult women, and 270,000 teenagers. Nearly two-thirds of the increase was among persons who lost their last jobs.

Industry Payroll Employment

Nonagricultural payroll employment, which usually rises between July and August, remained virtually unchanged this August at 70.0 million. As a result, after seasonal adjustment, payroll employment was down 90,000 over the month, the fourth decline in the last 5 months. Large employment drops in manufacturing and construction and small declines in several other industries more than offset moderate increases in services and State and local government. The August reduction brought nonfarm payroll employment down to about the same level as last August.

The largest over-the-month decline occurred in manufacturing, where employment fell by 75,000 (seasonally adjusted). Since last fall, factory employment has moved steadily downward and by August was 945,000 (or 4.6 percent) below last August. Over-the-month declines in manufacturing occurred in both the durable and nondurable goods industries. A 45,000 drop in durables took place largely in transportation equipment, electrical equipment, machinery, and instruments. In nondurable goods manufacturing, the August drop mainly reflected employment reductions in apparel and leather.

Employment in contract construction fell by 40,000 in August, seasonally adjusted. The decline would have been larger except for the net return to work of about 20,000 strikers. Over the year, employment in contract construction was down by 160,000, or about the same rate of decline as in manufacturing.

Payroll employment advanced in August in services and government by 25,000 each (seasonally adjusted). These gains were partly offset by declines in other service-producing industries—transportation and public utilities (15,000), trade (10,000), and finance, insurance, and real estate (10,000). Until April of this year, employment increases in the service sector of the economy had been adequate to counter the sharp losses in goods-producing industries. Beginning in April, however, employment in the service sector has shown little or no growth.

Hours of Work

The workweek for all rank-and-file workers on private nonfarm payrolls held steady in August at 37.3 hours, seasonally adjusted, remaining 0.2 hour above the May 1970 low.

The average workweek for manufacturing workers fell 0.2 hour in August to 39.9 hours (seasonally adjusted), after rising sharply in July (as revised). These fluctuations partly reflected the effects of the automobile model changeover. The factory workweek in August, however, was only slightly higher than the 9-year lows of May and June and was 0.7 hour below year-ago levels.

In the durable goods industries, the average workweek and overtime hours each edged down 0.1 hour in August. Weekly hours, however, were still 0.3 hour above their 1970 low reached in May; overtime hours remained in the 3.0-3.2 hours range of the last 7 months.

In nondurable goods, the average workweek fell 0.2 hour over the month, a return to the June level. Overtime also edged down 0.1 hour to its lowest level since June 1964.

Earnings

Average hourly earnings of production and nonsupervisory workers on private payrolls edged up 1 cent in August to \$3.24. Compared with a year ago, average hourly earnings were up 18 cents, or 5.9 percent.

Average weekly earnings increased by 70 cents over the month to \$122.15, as declines in manufacturing and services were countered by gains in the other major industry divisions. Compared with August 1969, weekly earnings increased by \$5.56, or 4.8 percent.

Over the year ending in July 1970, average weekly earnings also rose by 4.8 percent; after adjustment for consumer price changes, however, earnings were down by 1.0 percent.

Civilian Labor Force and Employment

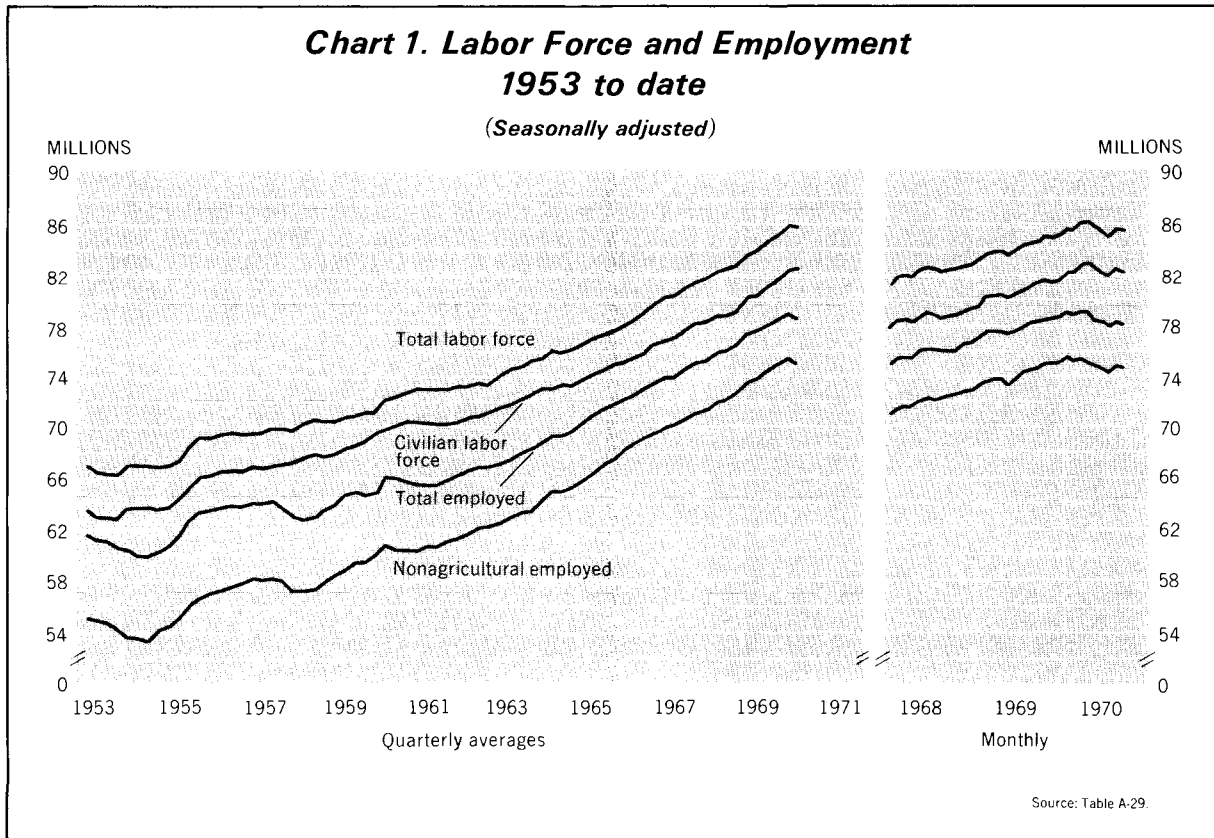
The civilian labor force declined in August to 84.1 million. The drop was in line with usual

July-August movements, however, and after seasonal adjustment the labor force was little changed from July and was at about the same level as in the spring of this year. Over the year, the civilian labor force has risen by 1.6 million, with nearly three-fifths of the rise occurring among adult full-time workers, about evenly divided among men and women. The labor force growth among men reflected, in part, the entry into the civilian job market of returning veterans.

Total employment, at 79.9 million, declined slightly more than it usually does in August and after adjustment for seasonal factors inched down over the month by about 200,000. Compared with August 1969, total employment was up by only 250,000, with the increase occurring largely among part-time workers. Among full-time workers, employment gains for adult women were offset by declines among adult men and teenagers.

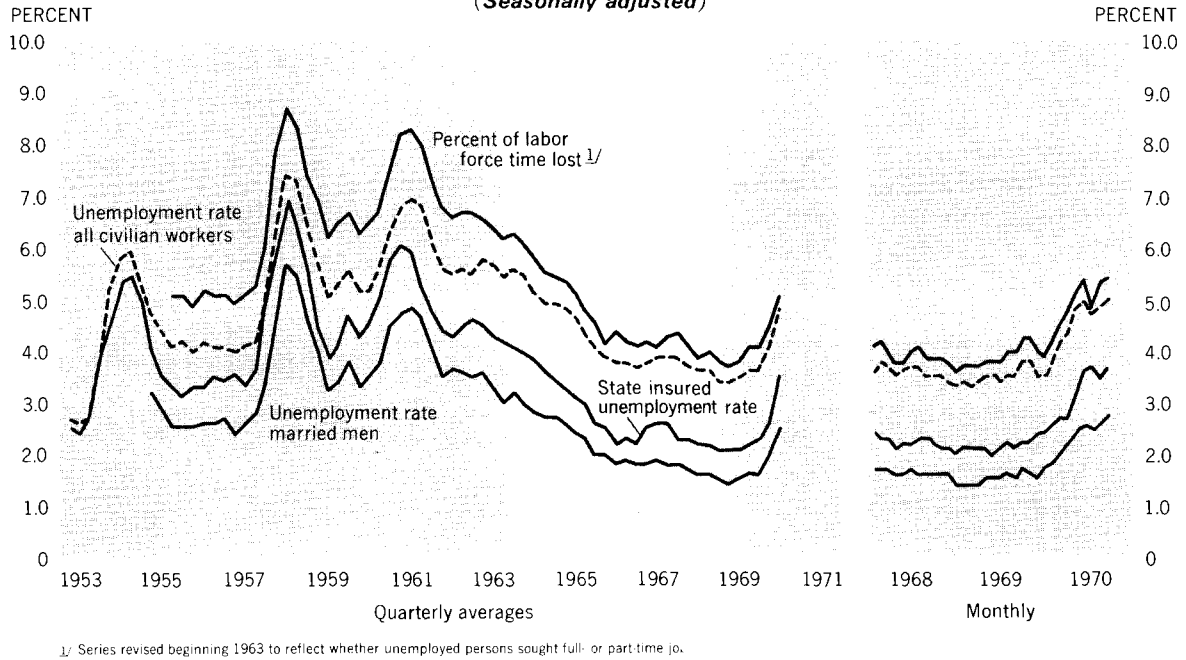
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**Chart 2. Major Unemployment Indicators
1953 to date**

(Seasonally adjusted)



**Chart 3. Payroll Employment in Goods- and Service-Producing Industries
1953 to date**

(Seasonally adjusted)

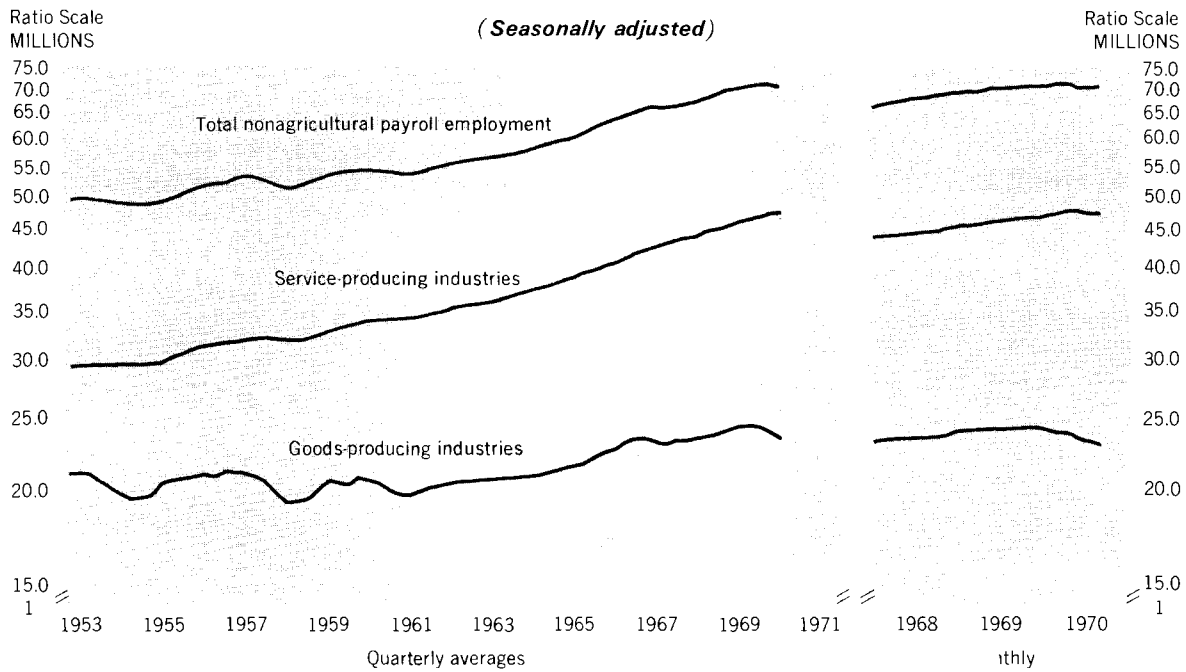
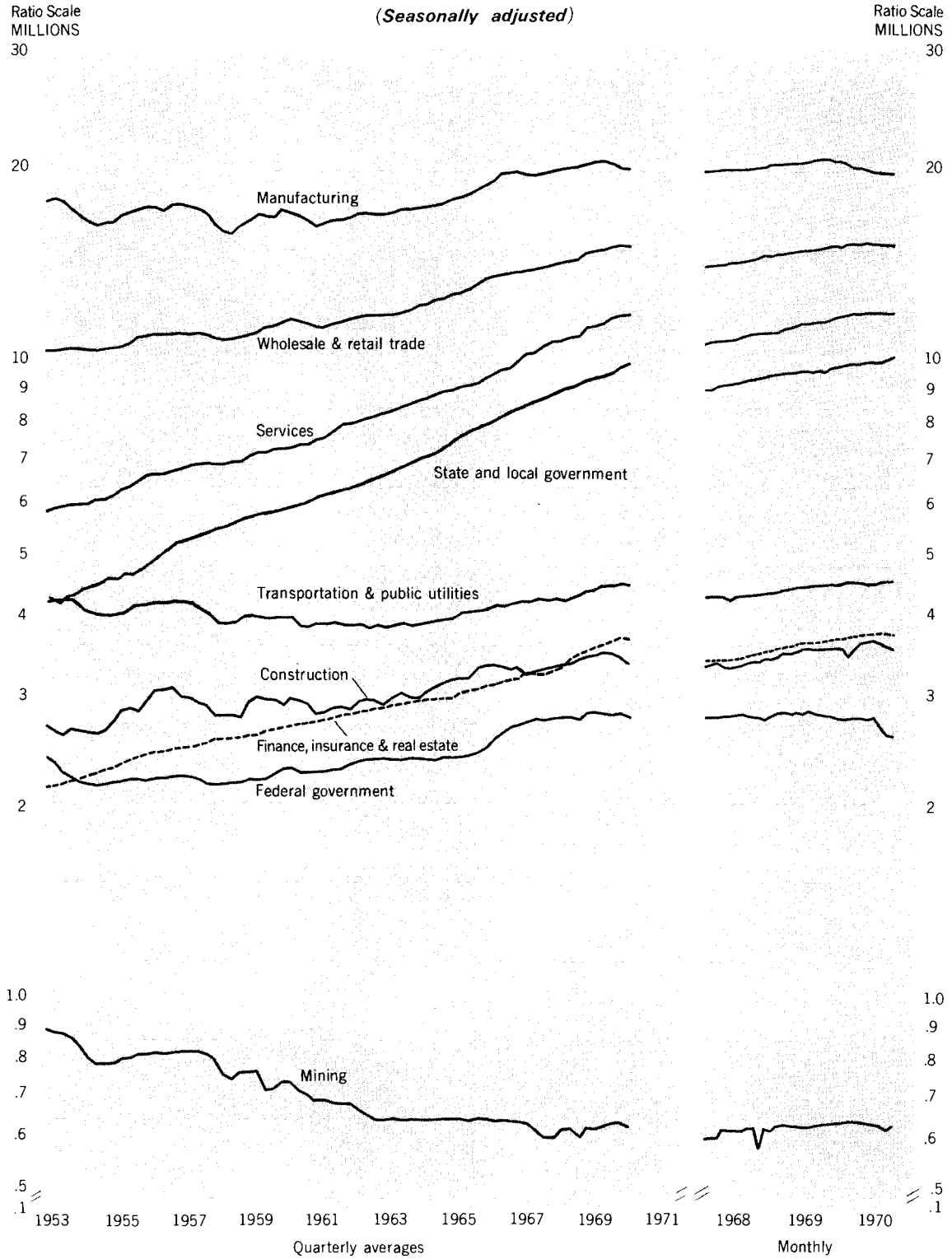


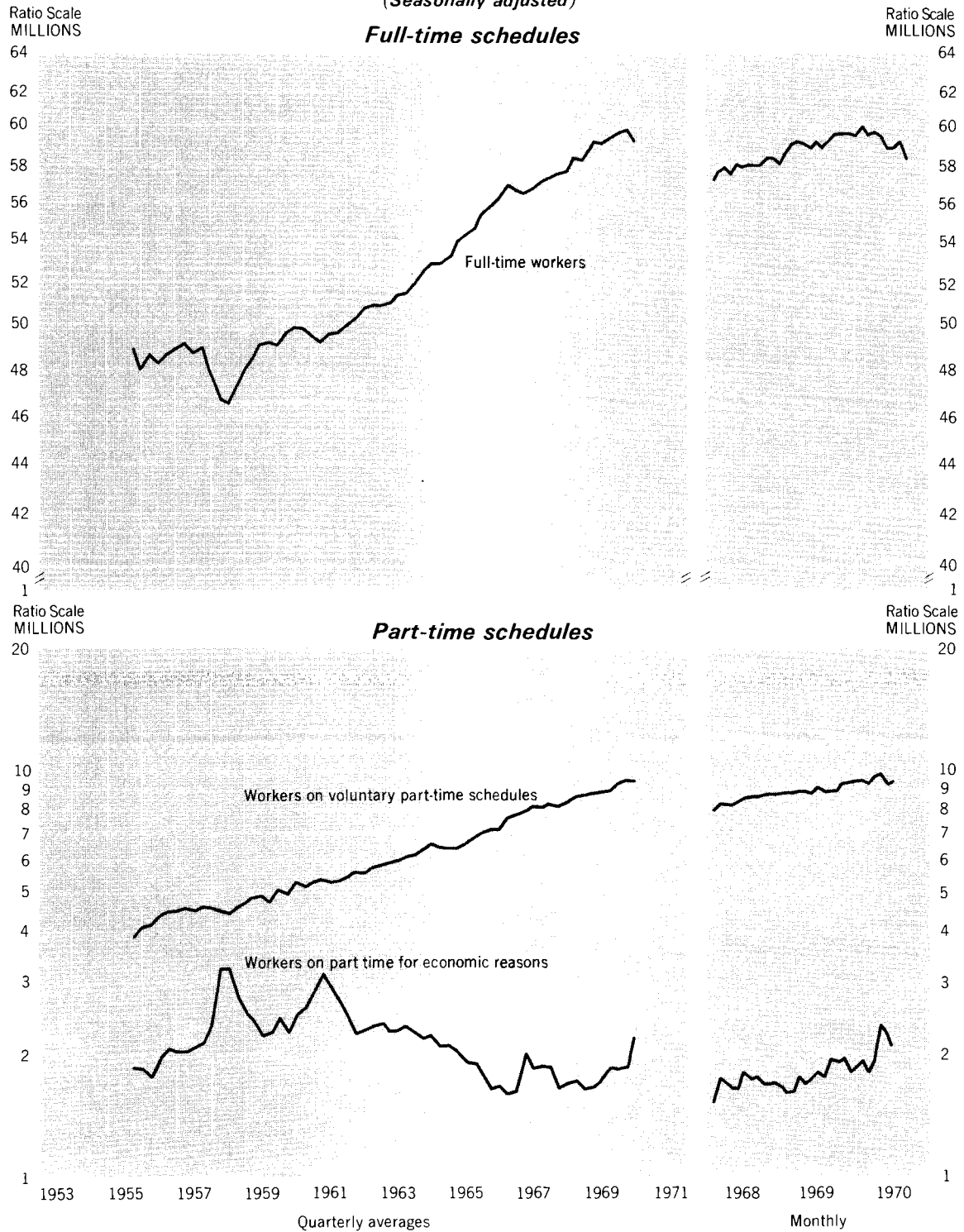
Chart 4. Nonagricultural Payroll Employment by Industry 1953 to date

(Seasonally adjusted)



Source: Table B-5.

**Chart 5. Persons At Work Full and Part Time
in Nonagricultural Industries
1955 to date**
(Seasonally adjusted)



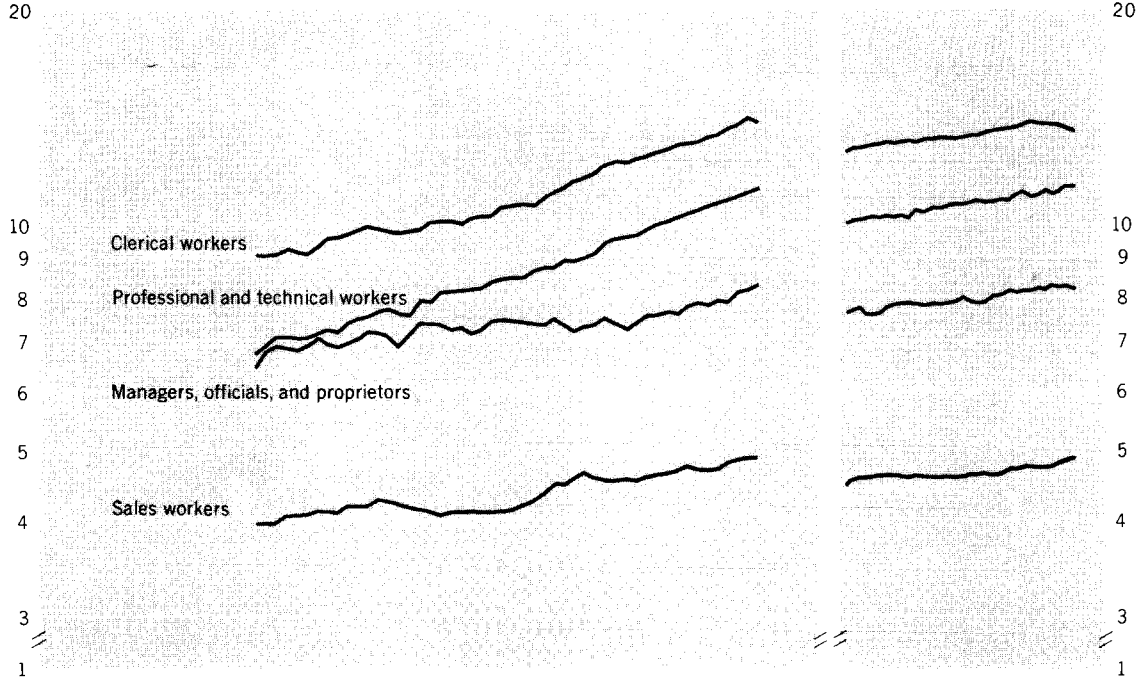
Source: Table A-29 and unpublished data.

**Chart 6. Employment in Nonfarm Occupations
1958 to date**
(Seasonally adjusted)

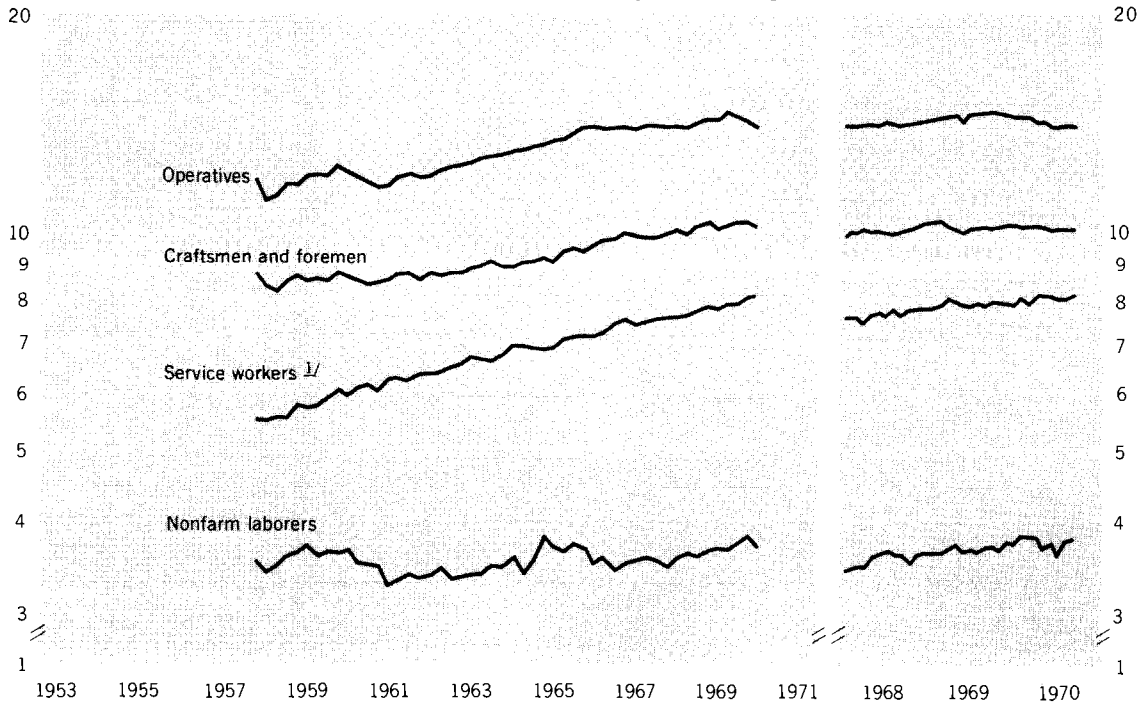
Ratio Scale
MILLIONS

Ratio Scale
MILLIONS

White-collar workers



Blue-collar and service workers

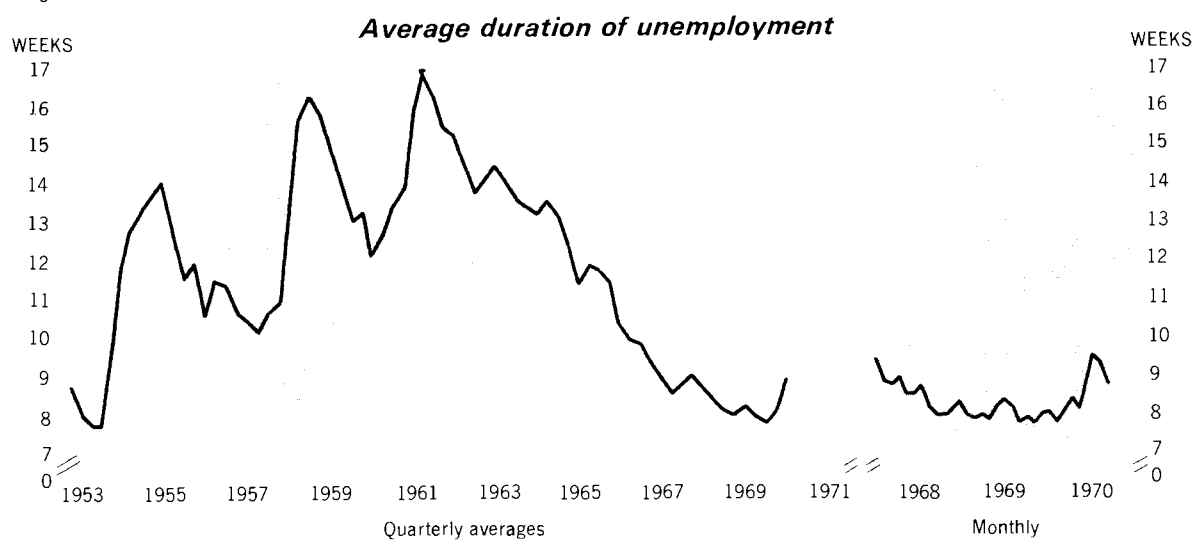
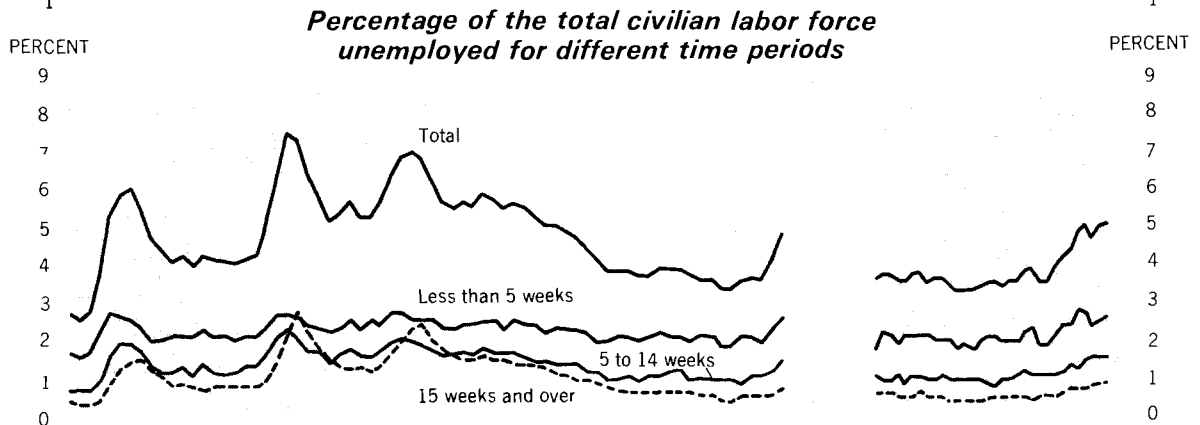
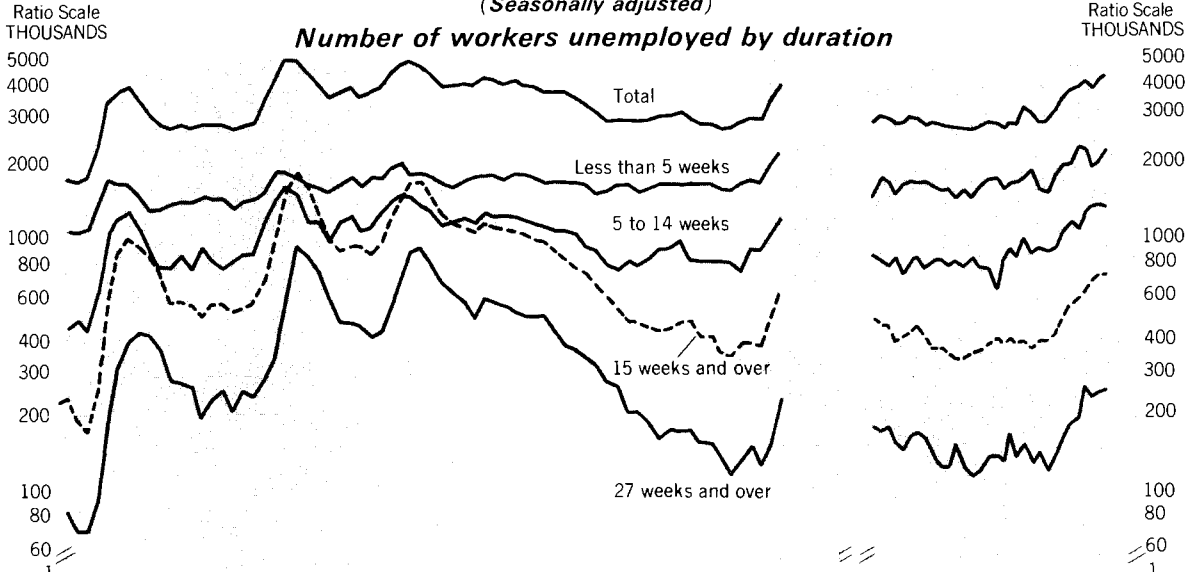


1/ Excludes private household workers.

Source: Table A.37.

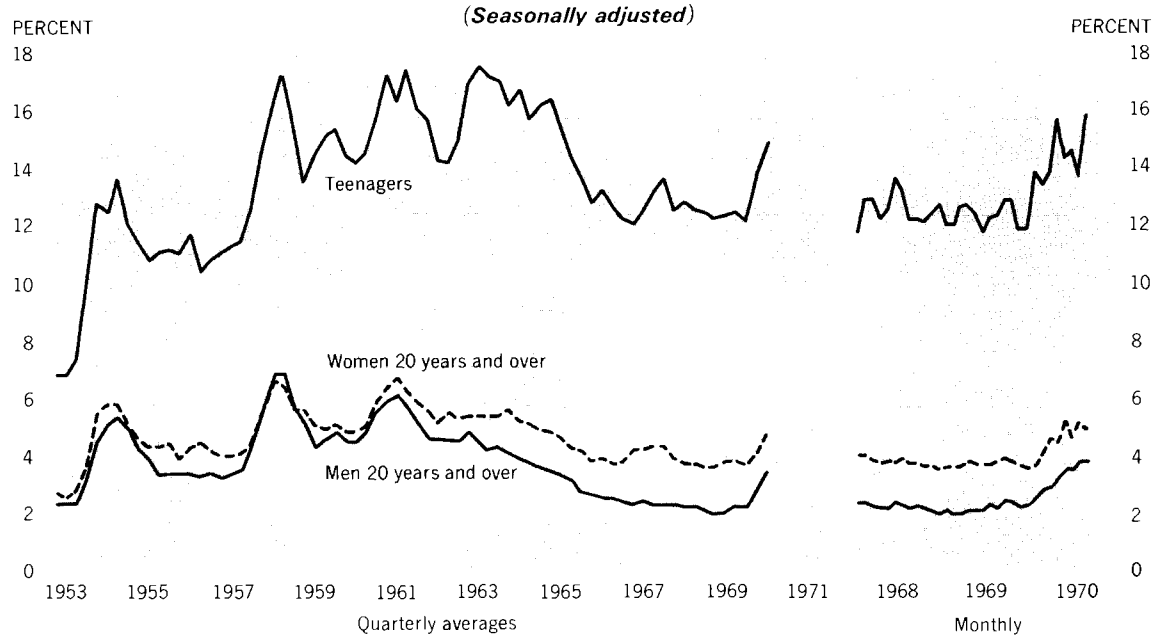
Chart 7. Duration of Unemployment 1953 to date

(Seasonally adjusted)



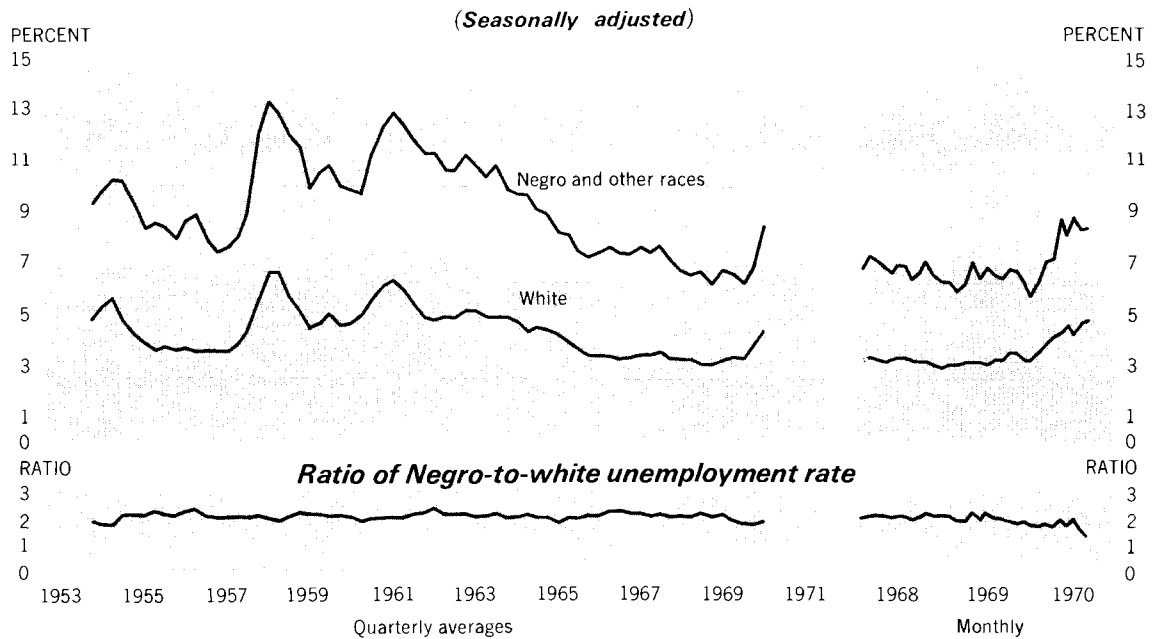
Source: Table A.32.

**Chart 8. Unemployment Rates by Age and Sex
1953 to date**



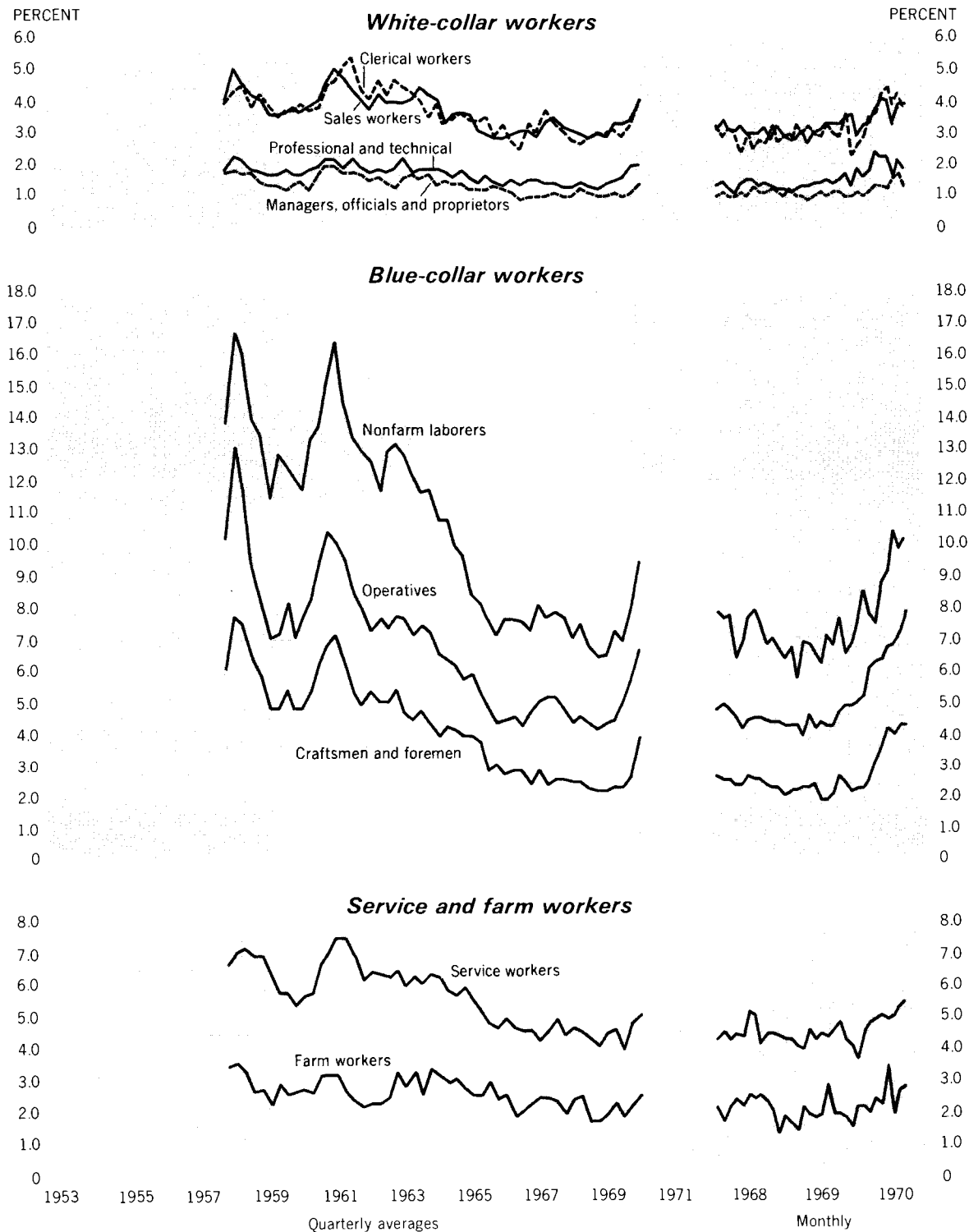
Source: Table A-33.

**Chart 9. Unemployment Rates by Color
1954 to date**



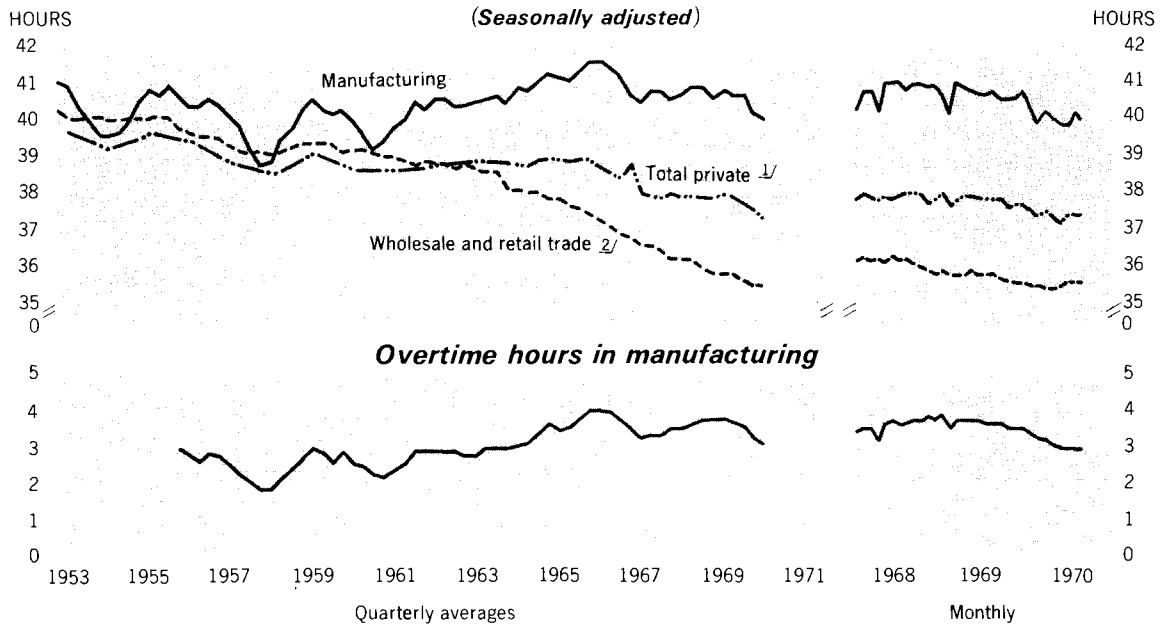
Source: Table A-31.

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**

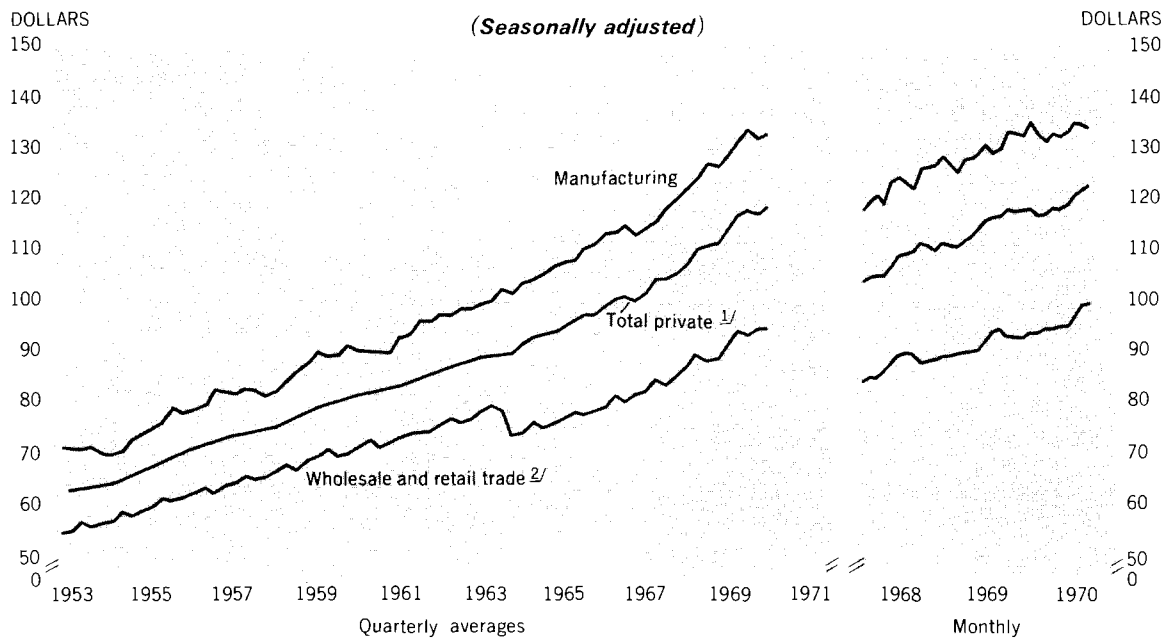


1/ Annual averages prior to 1964.

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

Note: Data for 2 most recent months are preliminary.

**Chart 12. Average Weekly Earnings in Total 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 1.

Chart 13. Average Weekly and Spendable Earnings of Production or Nonsupervisory Workers on Private Nonagricultural Payrolls 1953 to date
(Seasonally adjusted)

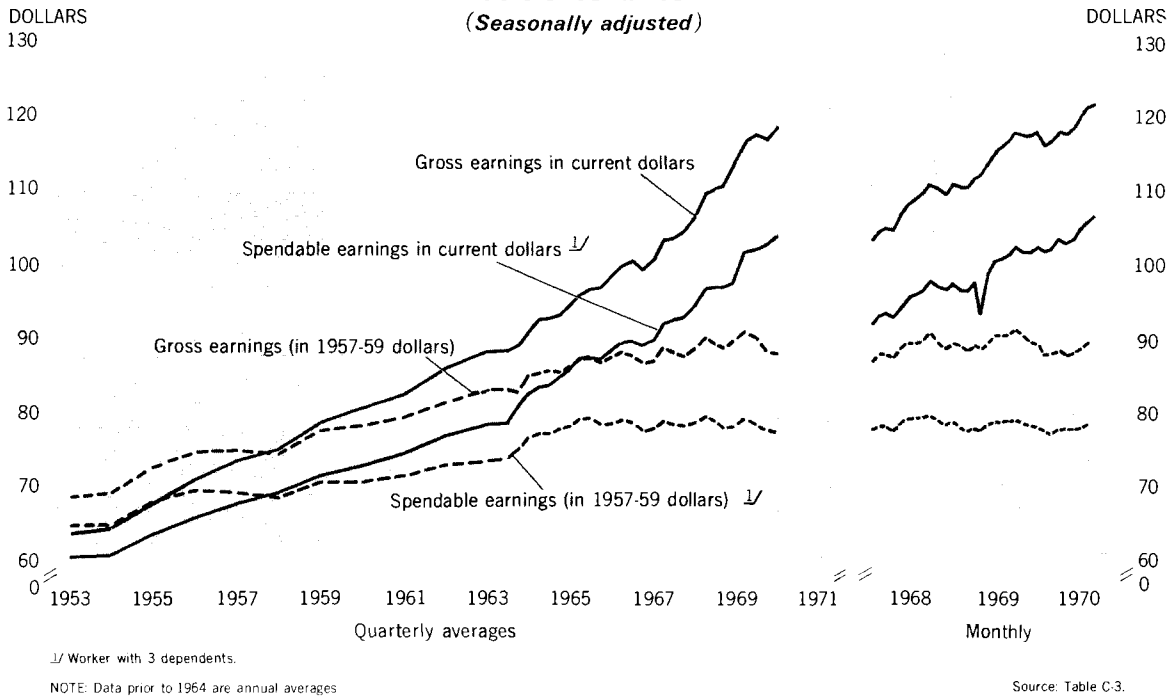


Chart 14. Labor Turnover Rates in Manufacturing 1953 to date
(Seasonally adjusted)

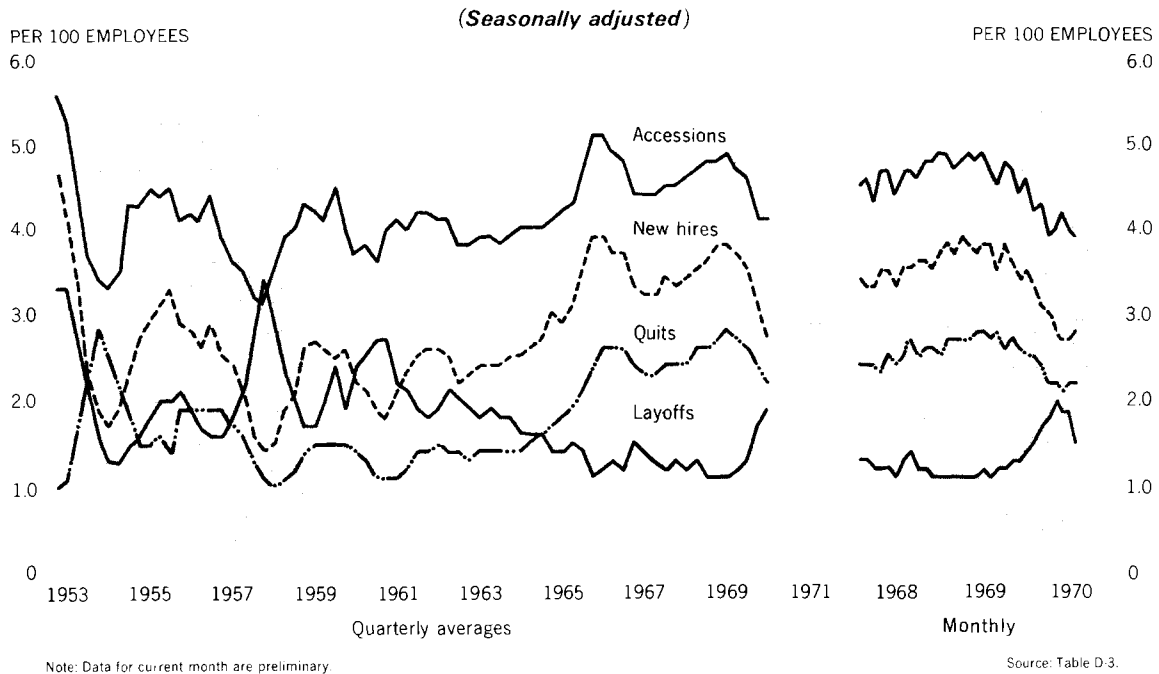
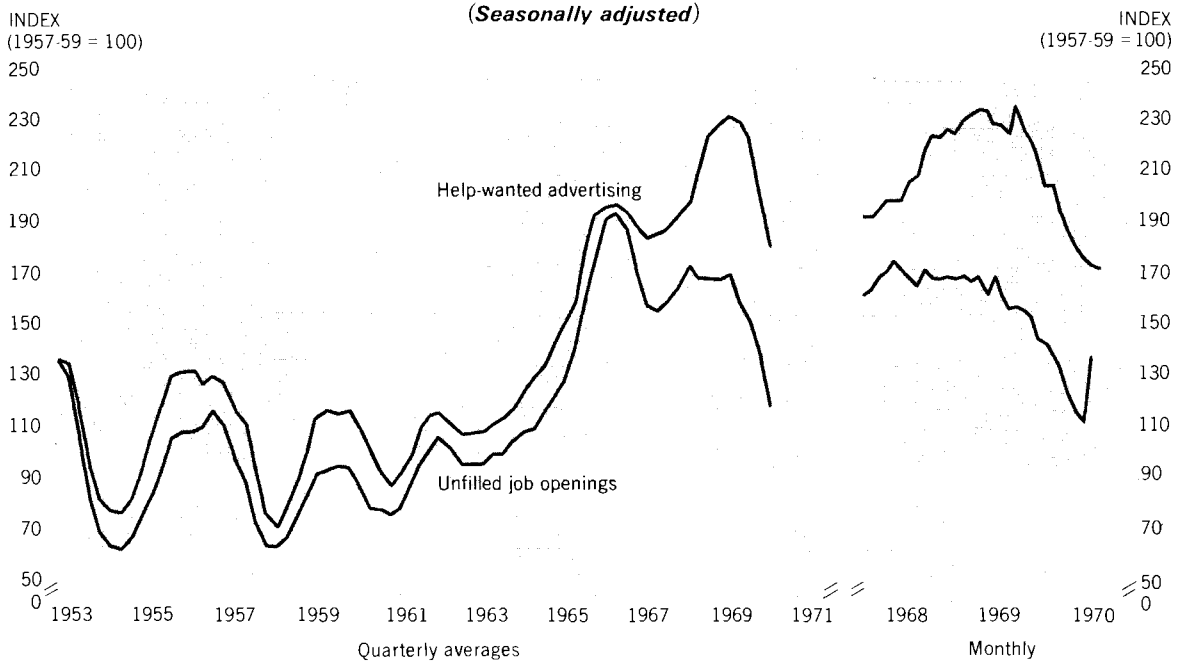


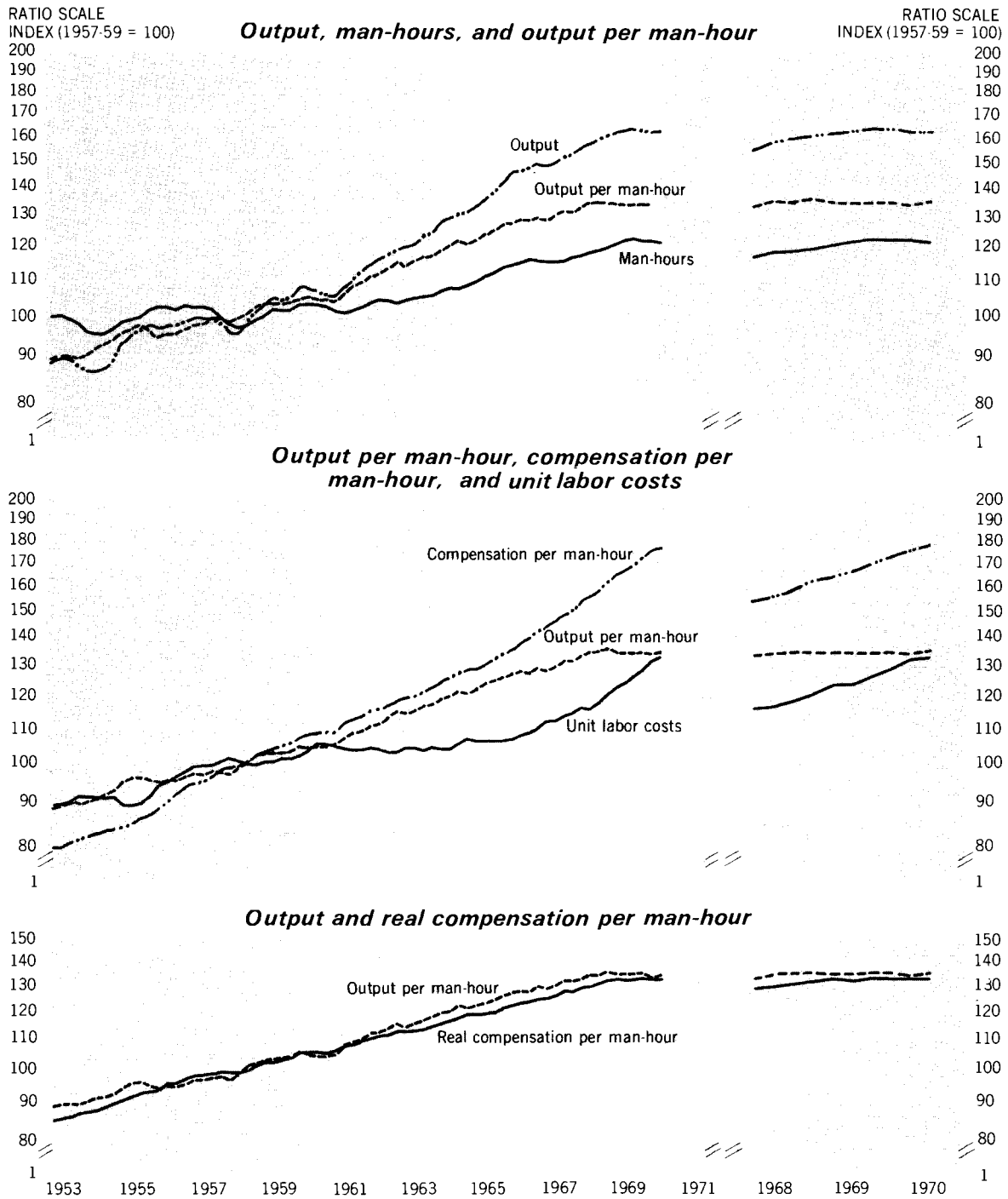
Chart 15. Indexes of Help-Wanted Advertising and Unfilled Job Openings 1953 to date



Source: Manpower Administration, U.S. Department of Labor (help-wanted advertising) and National Industrial Conference Board.

**Chart 16. Indexes of Output Per Man-Hour, Hourly Compensation, and Unit Labor Costs in the Private Nonfarm Economy
1953 to date**

(Seasonally adjusted quarterly averages)



Source: Table C-9

Chart 17 . 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

Quarterly changes (year-to-year)

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

Quarterly changes (quarter-to-quarter)

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

Quarterly changes (year-to-year)

1953 1955 1957 1959 1961 1963 1965 1967 1969 1971

11.0
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0

Quarterly changes (quarter-to-quarter)

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

Quarterly changes (year-to-year)

1953 1955 1957 1959 1961 1963 1965 1967 1969 1971

11.0
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0

Monthly changes (6-month span)

1968 1969 1970

Job Vacancy Survey

by Sheila C. White*

Beginning with the October issue, results of the Department of Labor's job vacancy survey will be published monthly in Employment and Earnings. Current job vacancy information has long been sought by government officials, Congressional committees, economists, and others. In response to this interest, the Department of Labor conducted a series of experimental surveys during the period from 1964 to 1968. These surveys were designed to determine the feasibility of collecting job vacancy data, establish the methods of collection, and test the reliability of the data.

The job vacancy survey in its present form began early in 1969. Along with data collection the survey methods have been developed further and tested over the past year, and the survey now will yield monthly job vacancy statistics.

This program is a cooperative Federal-State venture under which State employment security agencies collect data from a representative sample of employers for use in the preparation of both national and local summaries. The Department of Labor provides guidance and support to the State agencies through the Bureau of Labor Statistics and the Manpower Administration.

The information developed through the job vacancy program is intended to provide the basis for estimating manpower demand: the total number of jobs employers are trying to fill, the industries in which the demand exists, the occupations currently in demand, and the location of the vacant jobs. With this information and related data on unemployment, analysts should be better able to evaluate the extent to which job market problems may be due to the inability of the market to absorb all those who want jobs and the extent to which problems arise from occupational and geographic imbalances between available jobs and workers. Job vacancies can be expected to exist even in areas with high unemployment because of such occupational, skill level, and geographic obstacles to matching jobs

and workers. For the purposes of this program, a current job vacancy is defined as a job that is immediately available for filling, and for which the firm is actively trying to find or recruit a worker from outside the firm.

Presently, national data and local data for 25 selected metropolitan areas are available for the manufacturing sector, which accounts for more than a quarter of all nonfarm jobs. Statistical tables to be published monthly in Employment and Earnings now include national data by industry for both total and long-term vacancies (those unfilled for 30 days or more). Summary data will be published for the areas involved in the survey. State and area data will also include estimates for industries other than manufacturing as they become available, and estimates of vacancies by occupation, which are collected quarterly. In addition, State agencies will issue periodic releases on job vacancies in the areas covered by the program. ^{1/}

Future releases will provide job vacancy data for manufacturing establishments in 50 metropolitan areas and for the total nonagricultural sector in 26 of the largest areas. For 17 of these areas, quarterly occupational information will also be available. Eventually the survey will be extended to a broader national coverage and to additional areas.

The job vacancy data are not seasonally adjusted. In order to seasonally adjust a series, at least 3 years of data are necessary. Therefore, seasonally adjusted job vacancy data will not be available until early 1972.

*Of the Office of Manpower and Employment Statistics, Bureau of Labor Statistics.

^{1/} Manufacturing job vacancy data for more detailed industry lines and data for earlier time periods for the areas involved in the survey are available on request from the cooperating State employment security agencies listed on the inside back cover of this publication.

Many State employment service agencies have already found job vacancy information to be useful in their programs, particularly when the information is available by occupation. In most of these agencies, the job vacancy data have been used primarily to review existing manpower training programs and to determine what new training programs were needed. Many of these State agencies also use the vacancy data in their job market information programs. In several instances, they have found that job vacancy data are a valuable supplement to data already being provided to State advisory boards concerning the State's manpower needs. As the job vacancy program expands and as the data become available to employers, manpower agencies, schools, labor organizations, and other interested groups, additional uses of the information for helping both job seekers and employers undoubtedly will be made.

Some economists believe that by analyzing job vacancy data a better understanding of the relationship between low levels of unemployment and high rates of increases in wages is possible. Low levels of unemployment may be associated with a high rate of increase in wages; this relationship, in part, would reflect a high demand for labor. Analysis of job vacancy data possibly could reveal ways to modify the process and to achieve low levels of unemployment without excessive inflationary pressures. Job vacancy data will also provide additional evidence of trends and may prove to be a sensitive indicator of economic developments.

Major Findings

The first job vacancy report, which covers data from April 1969 through June 1970, shows that:

* There were 123,000 job vacancies at the end of June 1970 in the Nation's manufacturing industries.

* More than 1 out of 3 jobs had remained vacant for 30 days or more (long-term vacancies).

* The job vacancy rate for manufacturing remained at a level close to 1.4 percent from April 1969 through September 1969, declined to 0.8

percent in February 1970, remained at that level through May, and declined again in June to 0.6 percent. (The vacancy rate is the number of vacancies as a percent of the number of jobs available—employment plus vacancies.)

* The job vacancy rate in 25 metropolitan areas averaged 0.6 percent in June, and ranged from 0.2 percent in Detroit, St. Louis, and Jersey City to 1.5 percent in Greensboro-Winston-Salem-High Point.

* An occupational breakdown for 12 metropolitan areas shows that in May 1970, the most recent quarterly data available, about 30 percent of the vacancies were for "white-collar" jobs and 70 percent were for "blue-collar" and service jobs—roughly similar to the occupational composition of manufacturing employment nationally.

Additional Findings

The decline in manufacturing vacancies in recent months was considerably sharper in the durable goods industries—steel, automobiles, heavy machinery, etc.—than in the non-durable goods industries, probably because of the effect of defense cutbacks and the economic slowdown on the former. In 1969, job vacancies and job vacancy rates remained relatively stable until September, then declined quite sharply.

Long-term job vacancies in manufacturing, those vacant for 30 days or more, followed about the same over-the-year pattern as total job vacancies. Long-term vacancies have ranged from about 40 to 50 percent of all vacancies.

Job vacancy data by occupation for manufacturing establishments in 12 metropolitan areas are available for May 1970. In these 12 areas, which encompassed 15 percent of the Nation's manufacturing employment and manufacturing vacancies in May, almost 25 percent of the available vacancies were for benchwork occupations which include assemblers, inspectors, and repairmen. Occupations in the machine trades and structural work occupations (welders, transportation equipment assemblers, electricians, etc.)

together made up an additional 30 percent of the vacancies. Professional, technical, managerial, clerical, and sales jobs were about 30 percent. These percentages are similar to the rates of employment in the manufacturing industries nationwide.

Relation to other Labor
Market Information

The limited amount of data now available on job vacancies is beginning to show some relationships with other job market information. The decline in vacancies in the latter part of 1969 and early 1970 occurred as unemployment rose. This inverse relationship is generally to be expected since demand should be lower and vacant jobs easier to fill when employment is declining and unemployment is rising. Over longer periods, persistently large differences between vacancies and unemployment may reflect structural problems in matching the occupations and locations of available jobs and workers.

Comparisons of unemployment and job vacancies are subject to numerous qualifications. The unemployment figure is more inclusive; laid-off workers, for example, are included in the unemployment count, but job openings to be filled by the recall of previously laid-off work-

ers are excluded. (However, the inverse relationship observed between job vacancies and unemployment is still observed, but at a somewhat lower level, when laid-off workers are excluded from the count of the unemployed.) A qualification to comparison of totals by industry is that the available jobs may require different skills than those possessed by unemployed workers and may be in different areas from those with large numbers of unemployed workers. Job vacancy data are collected at the end of the month while unemployment is a mid-month figure.

Available labor turnover data also provide several measures that would be expected to relate to the vacancy data. The need to replace workers who quit, for example, creates job vacancies, and quits have been found to be positively related to job vacancies. On the other hand, an employer would not be expected to lay off large numbers of employees and simultaneously seek to hire many new workers (although he may be laying off workers in some occupations while trying to hire workers in others). Job vacancies at the end of each month should be positively related to new hires in the following month—i.e., the employment of workers who were not called back from layoff or previously employed by the firm. The job vacancy data tend to conform to this expectation.

CAUTIONARY NOTE

Job vacancy data are compiled from a sample of reporting establishments and may differ from the figures that would have been obtained if it were possible to take a complete census using the same questionnaires and procedures. Small differences in job vacancy rates between metropolitan areas, industries and occupations, therefore, may not be significant.

Caution should be exercised in using these data to form conclusions in the absence of other supporting facts. As with any new statistical program, there is not yet enough experience as to the relationships between job vacancy data and employment, unemployment, labor turnover, and other economic data under varying economic conditions to warrant firm conclusions.

The job vacancy data derived from the job vacancy survey differ from the unfilled job openings information compiled by the State Employment Security Agencies from their administrative records. The latter series reflect only the job openings listed with the Public Employment Service, and include all nonagricultural sectors as well as jobs not immediately available for filling.

Technical Description

The statistics for the first release of the job vacancy survey were compiled from monthly questionnaires submitted by a sample of establishments to cooperating State employment security agencies. These questionnaires, Form DL 1219—Monthly Report on Job Openings and Labor Turnover, are of the “shuttle” type, with space for each month of the calendar year. The collecting State agency returns the questionnaire to the respondent each month so that the next month’s data can be entered.

Concepts

Current Job Vacancies

The reporting establishments submit job vacancy information as of the close of the last business day (or nearest possible day) of the reference month. A current job vacancy is defined as a job that is immediately available for filling, and for which the firm is actively trying to find or recruit a worker from outside the firm.

Included are openings for all kinds of positions, classifications and employment, full-time, part-time, permanent, temporary, and seasonal.

Excluded are jobs to be filled by recall from layoff, transfer, promotion, demotion, or return from paid or unpaid leave; job 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.

“Actively trying to find or recruit” means that the establishment is engaged in 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 notices, etc.); recruitment programs; and interview and selection of applicants.

Long-Term Job Vacancies

The reporting establishment is asked to indicate the number of current job vacancies which have continued unfilled for 30 days or more.

Job Vacancy Rate

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.

Employment

Employment data reported on Form DL 1219 refer to persons on establishment payrolls who received pay for any part of the pay period which included the 12th of the month. The employment figures are used as weighting factors in estimating job vacancies.

Industrial, Occupational and Area Classification

The classification of establishments by industry and by Standard Metropolitan Statistical Area are the same as the labor turnover and payroll employment statistics published regularly in Employment and Earnings. The classifications of vacancies by occupation are made in accordance with those established in the Dictionary of Occupational Titles, Third Edition, U.S. Department of Labor, 1965.

Table 1. Estimated number and rate of job vacancies in manufacturing, April 1969–June 1970

Industry	1970						1969								
	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.
Number of job vacancies (in thousands)															
Manufacturing -----	123	151	158	165	170	186	185	209	242	288	312	256	240	290	293
Job vacancy rates ¹															
Manufacturing -----	0.6	0.8	0.8	0.8	0.8	0.9	0.9	1.0	1.2	1.4	1.5	1.3	1.2	1.4	1.4
Durable goods industries ----	.6	.7	.7	.8	.9	1.0	1.0	1.1	1.2	1.5	1.6	1.3	1.3	1.5	1.6
Nondurable goods industries -----	.7	.9	.9	.9	.8	.9	.9	1.0	1.1	1.2	1.3	1.1	1.0	1.3	1.3
Selected durable goods industries															
Primary metal industries -----	.5	.6	.7	.6	.6	.8	.7	.9	1.2	1.5	1.4	1.0	.9	1.3	1.2
Machinery, except electrical -----	.6	.8	.9	1.0	1.0	1.2	1.1	1.4	1.6	1.8	1.9	1.7	1.6	1.8	1.8
Electrical equipment and supplies -----	.6	.8	.8	.9	1.1	1.1	1.2	1.2	1.5	1.8	1.9	1.5	1.6	1.7	2.0
Transportation equip- ment -----	.5	.6	.5	.7	.6	.8	.8	.8	1.0	1.2	1.5	1.2	1.1	1.4	1.4
Instruments and re- lated products -----	.7	1.1	1.4	1.7	1.7	1.6	1.4	1.6	1.9	2.3	2.3	2.1	2.1	2.3	2.3
Selected nondurable goods industries															
Textile mill products ----	.8	1.1	1.1	1.0	.9	.9	.9	1.0	1.2	1.4	1.5	1.3	1.2	1.4	1.6
Apparel and other textile products -----	1.4	1.5	1.5	1.6	1.6	1.6	1.5	1.6	1.8	1.9	2.0	2.0	1.8	2.0	1.9
Printing and publishing--	.5	.6	.7	.7	.7	.8	.8	.9	.9	1.1	1.3	.8	.8	1.1	1.0
Chemicals and allied products -----	.7	.8	.8	1.0	.9	.9	.8	.9	1.0	1.1	1.1	1.1	1.0	1.3	1.4

¹ Computed by dividing the total number of job vacancies by the sum of employment plus the total number of job vacancies and multiplying the quotient by 100.

Table 2A. Estimated number and rate of long-term job vacancies in manufacturing, April 1969-June 1970

Industry	1970						1969								
	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.
Number of long-term job vacancies (in thousands)															
Manufacturing -----	45	58	60	67	69	76	90	101	111	127	121	109	110	131	137
Long-term job vacancy rates ¹															
Manufacturing -----	0.2	0.3	0.3	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.7
Durable goods industries ----	.2	.2	.3	.3	.3	.4	.5	.5	.6	.6	.6	.5	.6	.7	.7
Nondurable goods industries -----	.3	.3	.3	.3	.4	.4	.4	.5	.5	.6	.5	.5	.5	.6	.6
Selected durable goods industries															
Primary metal industries -----	.1	.2	.3	.2	.2	.3	.3	.5	.6	.7	.5	.4	.5	.5	.5
Machinery, except electrical -----	.2	.3	.4	.4	.5	.5	.6	.7	.8	.8	.8	.8	.8	.9	.9
Electrical equipment and supplies -----	.1	.2	.2	.3	.3	.4	.5	.5	.5	.6	.6	.5	.7	.7	.8
Transportation equipment -----	.1	.2	.2	.3	.2	.3	.4	.4	.5	.5	.5	.5	.4	.6	.6
Instruments and related products -----	.2	.4	.6	.9	.8	.6	.6	.7	.7	.8	.7	.9	.8	.9	.8
Selected nondurable goods industries															
Textile mill products ----	.2	.3	.3	.3	.3	.3	.4	.4	.4	.5	.5	.5	.5	.6	.6
Apparel and other textile products -----	.8	.8	.8	.8	.8	.8	.9	1.0	1.1	1.2	1.2	1.2	1.1	1.2	1.3
Printing and publishing ---	.1	.2	.2	.3	.2	.3	.3	.3	.3	.5	.3	.3	.3	.4	.4
Chemicals and allied products -----	.3	.4	.4	.4	.3	.4	.4	.5	.5	.6	.6	.6	.5	.7	.7

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¹ Computed by dividing the number of long-term job vacancies by the sum of employment plus the total number of job vacancies and multiplying the quotient by 100.

Table 2B. Long-term job vacancy rate as a percent of total job vacancy rate in manufacturing, April 1969-June 1970

Industry	1970						1969								
	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.
Manufacturing -----	36	37	38	40	41	41	48	49	46	44	39	43	46	45	47
Durable goods industries -----	33	35	37	40	40	41	48	49	44	43	37	40	45	44	46
Nondurable goods industries ---	40	39	39	41	42	41	49	48	48	45	41	46	48	48	49
Selected durable goods industries															
Primary metal industries ---	29	39	37	39	41	40	45	49	49	50	35	41	51	34	46
Machinery, except electrical -----	38	42	42	46	47	46	54	52	48	47	43	45	49	49	52
Electrical equipment and supplies -----	22	27	28	30	32	36	42	42	35	37	30	34	43	40	42
Transportation equipment ---	30	28	41	39	37	38	52	55	47	42	36	40	38	41	42
Instruments and related products -----	34	39	41	51	49	36	42	43	36	34	32	42	39	40	34
Selected nondurable goods industries															
Textile mill products -----	29	28	26	29	31	30	43	40	36	37	35	36	40	40	36
Apparel and other textile products -----	55	53	54	54	52	52	62	61	60	61	60	60	62	61	67
Printing and publishing -----	32	30	33	38	36	35	38	40	37	40	28	33	40	39	42
Chemicals and allied products -----	43	48	49	42	40	48	52	56	55	52	52	50	48	51	50

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NOTE: Percentages are computed by dividing the unrounded long-term job vacancy rates by the unrounded total job vacancy rates.

Table 3. Percent distribution of job vacancies in manufacturing, April 1969-June 1970

Industry	1970						1969								
	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June	May	Apr.
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	100.0	100.0
Durable goods industries -----	52.1	53.7	54.8	56.9	58.9	60.3	61.0	60.4	62.5	63.2	64.0	62.6	63.7	63.7	64.4
Primary metal industries ---	5.3	5.6	6.2	4.6	4.4	5.6	5.3	6.2	7.0	7.0	6.4	5.3	5.2	6.3	5.4
Machinery, except electrical -----	10.5	10.6	11.3	12.2	12.6	12.9	12.6	13.3	13.3	12.7	12.6	13.5	13.7	12.5	12.6
Electrical equipment and supplies -----	9.1	9.7	10.0	10.9	12.5	12.1	13.4	12.0	13.0	12.9	12.6	12.3	13.8	12.2	14.1
Transportation equipment ---	7.0	7.2	6.3	8.3	7.1	8.5	8.4	7.9	8.7	9.0	10.0	9.4	9.3	10.0	9.9
Instruments and related products -----	2.6	3.6	4.4	5.0	4.9	4.1	3.6	3.7	3.8	3.8	3.5	4.0	4.3	3.9	3.8
Other durable goods industries -----	17.6	16.9	16.5	15.8	17.4	17.2	17.6	17.3	16.7	17.7	18.8	18.1	17.4	18.8	18.7
Nondurable goods industries ---	47.9	46.3	45.2	43.1	41.1	39.7	39.0	39.6	37.5	36.8	36.0	37.4	36.3	36.3	35.6
Textile mill products -----	6.7	6.8	7.0	6.0	5.1	4.5	4.7	4.7	4.9	4.8	4.9	5.0	5.0	5.0	5.5
Apparel and other textile products -----	16.6	14.3	13.2	13.4	13.6	12.1	11.6	11.1	10.7	9.6	9.3	10.9	11.1	10.0	9.4
Printing and publishing -----	4.3	4.4	5.0	4.7	4.5	5.1	4.8	4.6	4.1	4.4	4.5	3.5	3.7	4.1	3.9
Chemicals and allied products -----	6.0	5.4	5.6	5.9	5.6	5.2	4.5	4.4	4.3	3.9	3.8	4.8	4.5	4.8	4.9
Other nondurable goods industries -----	14.3	15.3	14.4	13.2	12.2	12.9	13.3	14.9	13.5	14.0	13.5	13.2	12.0	12.5	12.0

NOTE: Because of rounding, sums of individual items may not equal totals.

Table 4. Job vacancy rates in manufacturing industries,¹ United States and selected Standard Metropolitan Statistical Areas, May and June 1970

Areas	Total job vacancy rates		Long-term job vacancy rates ²	
	June	May	June	May
United States -----	0.6	0.8	0.2	0.3
Albany-Schenectady-Troy -----	0.7	1.2	0.3	0.5
Atlanta -----	.6	.6	.1	.2
Baltimore -----	.8	1.0	.3	.4
Boston -----	.8	1.3	.3	.4
Buffalo -----	.4	.7	.1	.1
Dallas -----	.4	.5	.1	.2
Detroit -----	.2	.3	.1	.1
Greensboro-Winston-Salem- High Point -----	1.5	1.5	.3	.5
Houston -----	1.0	1.1	.6	.6
Jersey City -----	.2	.3	.1	.1
Kansas City -----	.5	.6	.1	.2
Miami -----	.6	1.2	.1	.4
Milwaukee -----	.5	.6	.2	.2
Minneapolis-St. Paul -----	.4	.4	.2	.2
New Orleans -----	.5	.6	.3	.4
Newark -----	.7	.8	.3	.3
New York -----	.7	.9	.3	.4
Oklahoma City -----	.5	.8	.2	.2
Paterson-Clifton-Passaic -----	.7	.8	.2	.3
Perth Amboy -----	.9	1.1	.4	.4
Philadelphia -----	.5	.8	.2	.3
Phoenix -----	.9	.7	.2	.3
Providence-Pawtucket-Warwick -----	.5	.8	.2	.3
St. Louis -----	.2	.5	*	.2
Tampa-St. Petersburg -----	.8	1.5	.3	.4

¹ Computed by dividing the number of total and long-term job vacancies, respectively, by the sum of employment plus vacancies and multiplying the quotient by 100.

² Long-term job vacancies are those that have remained unfilled for 30 days or more.

* Not available.

NOTE: Data for the current month are preliminary.

SOURCE: Cooperating State agencies listed on inside back cover.

HOUSEHOLD DATA

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¹Quarterly data included in February, May, August, and November issues.

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	Agriculture	Nonagricultural 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	38,940	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	56,630	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: August.....	138,127	86,046	62.3	82,516	79,646	3,977	75,669	2,869	3.5	3.5	52,081
November.....	138,732	84,920	61.2	81,427	78,716	3,322	75,395	2,710	3.5	3.5	53,812
December.....	138,928	84,856	61.1	81,416	78,788	2,984	75,805	2,628	3.2	3.5	54,072
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.....	139,298	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

1Not 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	
MALE											
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: August.....	66,482	55,306	83.2	51,815	50,522	3,223	47,299	1,293	2.5	2.7	11,176
1970: February.....	67,009	53,481	79.8	50,178	48,000	2,546	45,454	2,178	4.3	3.6	13,528
March.....	67,098	53,737	80.1	50,460	48,378	2,704	45,674	2,082	4.1	3.6	13,361
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
FEMALE											
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: August.....	71,664	30,740	42.9	30,701	29,124	754	28,370	1,577	5.1	4.9	40,905
1970: February.....	72,289	31,143	43.1	31,105	29,489	448	29,041	1,616	5.2	5.1	41,146
March.....	72,398	31,270	43.2	31,230	29,579	467	29,112	1,651	5.3	5.7	41,128
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

A - 3: Employment status of the noninstitutional population by sex, age, and color
August 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					
MALE											
16 years and over	55,633	82.4	52,540	50,333	2,207	4.2	11,905	256	571	1,648	9,430
16 to 21 years	8,393	75.8	7,113	6,311	802	11.3	2,681	24	335	45	2,277
16 to 19 years	5,254	69.5	4,888	4,302	585	12.0	2,304	25	231	30	2,019
16 and 17 years	2,322	59.7	2,296	2,012	284	12.4	1,568	18	99	16	1,436
18 and 19 years	2,932	79.9	2,592	2,290	301	11.6	735	7	132	14	582
20 to 64 years	48,218	92.9	45,491	43,929	1,562	3.4	3,661	81	339	1,024	2,218
20 to 24 years	7,802	91.1	6,146	5,670	476	7.7	762	6	224	40	491
25 to 54 years	33,311	96.0	22,243	31,343	900	4.0	1,403	43	114	529	716
25 to 29 years	6,565	96.2	6,174	5,915	260	4.2	260	4	72	53	130
30 to 34 years	5,487	97.8	5,227	5,070	157	3.0	125	2	17	41	66
35 to 39 years	5,239	97.2	4,996	4,888	108	2.2	152	10	13	53	76
40 to 44 years	5,536	96.3	5,432	5,291	141	2.6	215	6	4	91	115
45 to 49 years	5,568	95.1	5,520	5,384	136	2.5	284	9	8	131	136
50 to 54 years	4,916	93.1	4,895	4,797	98	2.0	367	12	1	160	194
55 to 64 years	7,106	82.6	7,102	6,915	187	2.6	1,497	33	--	453	1,011
55 to 59 years	4,219	89.3	4,216	4,091	125	3.0	505	16	--	213	277
60 to 64 years	2,887	74.4	2,886	2,825	62	2.1	992	17	1	240	734
65 years and over	2,161	26.7	2,161	2,101	60	2.8	5,940	150	1	595	5,193
65 to 69 years	1,268	41.2	1,268	1,219	49	3.9	1,811	41	--	186	1,584
70 years and over	893	17.8	893	882	11	1.3	4,129	109	1	409	3,609
White											
16 years and over	49,901	82.6	47,145	45,331	1,815	3.8	10,510	223	483	1,342	8,463
16 to 21 years	7,374	76.7	6,230	5,615	615	9.9	2,240	17	269	32	1,921
16 to 19 years	4,630	70.7	4,300	3,835	465	10.8	1,922	18	179	23	1,703
16 and 17 years	2,046	60.8	2,022	1,795	226	11.2	1,320	15	71	13	1,222
18 and 19 years	2,584	81.1	2,278	2,039	239	10.5	602	3	108	9	481
20 to 64 years	43,308	93.2	40,883	39,583	1,300	3.2	3,136	67	303	833	1,933
20 to 24 years	6,867	91.2	5,379	5,014	365	6.8	660	5	204	27	424
25 to 54 years	29,950	96.3	29,016	28,257	758	2.6	1,135	36	98	409	594
25 to 29 years	10,722	97.1	10,154	9,811	344	3.4	322	4	79	67	172
30 to 34 years	9,683	97.1	9,380	9,174	206	2.2	286	15	11	117	143
35 to 44 years	9,545	94.8	9,482	9,272	209	2.2	528	16	9	224	279
55 to 64 years	6,492	82.9	6,488	6,312	176	2.7	1,341	28	--	397	915
55 to 59 years	3,855	89.8	3,851	3,733	119	3.1	437	14	--	187	235
60 to 64 years	2,637	74.5	2,637	2,579	58	2.2	904	14	1	210	680
65 years and over	1,963	26.5	1,963	1,913	50	2.5	5,452	138	1	486	4,827
Negro and other races											
16 years and over	5,732	80.4	5,394	5,002	393	7.3	1,395	33	88	307	967
16 to 21 years	1,019	69.8	883	696	187	21.2	441	7	67	13	355
16 to 19 years	624	62.0	588	468	120	20.5	382	7	52	7	316
16 and 17 years	276	52.7	274	217	57	20.9	248	3	28	2	215
18 and 19 years	348	72.3	314	251	63	20.0	134	4	24	5	101
20 to 64 years	4,910	90.3	4,608	4,346	261	5.7	525	14	36	189	285
20 to 24 years	935	90.2	767	657	110	14.4	102	1	20	13	67
25 to 54 years	3,361	92.7	3,227	3,086	140	4.3	267	8	16	121	122
25 to 29 years	1,330	95.5	1,246	1,174	73	5.8	63	2	11	27	24
30 to 34 years	1,093	93.1	1,047	1,004	43	4.1	81	--	5	27	48
35 to 44 years	938	88.4	933	909	25	2.7	123	5	--	68	51
55 to 64 years	614	79.7	614	603	11	1.7	156	5	--	56	96
55 to 59 years	364	84.2	364	358	7	1.8	68	1	--	25	42
60 to 64 years	250	74.0	250	246	4	1.7	88	3	--	31	54
65 years and over	198	28.9	198	188	11	5.3	488	12	--	110	366

A-3: Employment status of the noninstitutional population by sex, age, and color--Continued
August 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					
FEMALE											
16 years and over	31,615	43.3	31,575	29,562	2,013	6.4	41,315	35,715	580	878	4,142
16 to 21 years	6,052	55.6	6,033	5,299	734	12.2	4,827	2,063	426	31	2,306
16 to 19 years	3,893	52.6	3,884	3,332	552	14.2	3,514	1,092	323	18	2,080
16 and 17 years	1,670	43.9	1,670	1,433	237	14.2	2,139	425	135	5	1,574
18 and 19 years	2,223	61.8	2,214	1,899	315	14.2	1,375	667	188	13	506
20 to 64 years	26,717	48.9	26,685	25,245	1,441	5.4	27,869	25,935	257	318	1,360
20 to 24 years	4,998	58.7	4,979	4,540	439	8.8	3,512	2,983	156	27	346
25 to 54 years	17,668	48.5	17,655	16,756	899	5.1	18,736	17,743	98	167	727
25 to 29 years	3,027	43.7	3,023	2,828	195	6.4	3,896	3,700	39	17	140
30 to 34 years	2,487	42.9	2,485	2,315	170	6.8	3,306	3,133	12	18	143
35 to 39 years	2,587	46.2	2,585	2,452	133	5.2	3,012	2,844	24	20	124
40 to 44 years	3,135	51.7	3,133	2,988	145	4.6	2,931	2,778	7	28	117
45 to 49 years	3,386	53.8	3,385	3,251	134	4.0	2,902	2,767	6	30	99
50 to 54 years	3,045	53.1	3,044	2,922	122	4.0	2,690	2,521	10	56	104
55 to 64 years	4,051	41.9	4,051	3,949	103	2.5	5,620	5,208	3	124	287
55 to 59 years	2,500	48.0	2,500	2,435	65	2.6	2,712	2,528	2	64	119
60 to 64 years	1,551	34.8	1,551	1,514	37	2.4	2,909	2,680	1	60	168
65 years and over	1,005	9.2	1,005	984	20	2.0	9,932	8,688	--	542	701
65 to 69 years	626	16.8	626	612	14	2.3	3,100	2,885	--	67	148
70 years and over	379	5.3	379	373	6	1.6	6,832	5,804	--	475	553
White											
16 years and over	27,505	42.5	27,469	25,877	1,592	5.8	37,274	32,521	448	681	3,624
16 to 21 years	5,316	56.7	5,299	4,758	541	10.2	4,052	1,744	326	25	1,958
16 to 19 years	3,442	54.0	3,434	3,025	409	11.9	2,929	910	243	13	1,763
16 and 17 years	1,480	45.2	1,480	1,295	186	12.5	1,792	360	89	2	1,340
18 and 19 years	1,962	63.3	1,954	1,731	223	11.4	1,138	550	154	11	423
20 to 64 years	23,161	47.9	23,133	21,970	1,162	5.0	25,169	23,512	205	234	1,219
20 to 24 years	4,345	58.6	4,328	3,993	335	7.7	3,065	2,619	126	21	299
25 to 54 years	15,173	47.2	15,161	14,425	736	4.9	16,968	16,116	76	111	665
25 to 29 years	4,617	41.5	4,611	4,333	278	6.0	6,515	6,186	40	26	263
30 to 34 years	4,867	47.5	4,864	4,628	236	4.8	5,369	5,097	22	32	218
35 to 44 years	5,689	52.8	5,687	5,464	223	3.9	5,084	4,833	13	53	184
55 to 64 years	3,643	41.5	3,643	3,552	91	2.5	5,136	4,776	3	102	254
55 to 59 years	2,234	47.4	2,234	2,177	57	2.5	2,475	2,311	2	53	109
60 to 64 years	1,409	34.6	1,409	1,375	34	2.4	2,661	2,466	1	49	145
65 years and over	902	9.0	902	882	21	2.3	9,175	8,099	--	434	642
Negro and other races											
16 years and over	4,110	50.4	4,106	3,685	421	10.3	4,041	3,194	132	197	518
16 to 21 years	737	48.7	734	541	193	26.3	775	319	101	6	349
16 to 19 years	451	43.6	450	307	143	31.8	585	182	80	5	317
16 and 17 years	190	35.4	190	139	51	26.9	347	65	46	2	234
18 and 19 years	261	52.4	260	168	92	35.3	237	117	34	3	83
20 to 64 years	3,556	56.8	3,553	3,275	278	7.8	2,701	2,423	52	84	141
20 to 24 years	653	59.4	651	547	104	16.0	447	364	30	6	48
25 to 54 years	2,495	58.5	2,494	2,332	162	6.5	1,768	1,627	22	56	62
25 to 29 years	898	56.6	897	810	87	9.7	687	647	11	9	20
30 to 34 years	855	59.9	855	812	43	5.0	574	526	9	16	23
35 to 44 years	742	59.4	742	709	33	4.4	508	455	3	32	18
55 to 64 years	408	45.7	408	396	12	2.9	484	431	--	22	32
55 to 59 years	266	52.9	266	257	9	3.3	237	217	--	11	10
60 to 64 years	142	36.5	142	139	3	2.2	247	214	--	11	22
65 years and over	103	11.9	103	103	--	--	756	589	--	108	59

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	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
MALE								
16 years and over	55,633	55,306	82.4	83.2	52,540	51,815	81.5	82.3
16 to 19 years	5,254	5,280	69.5	71.8	4,888	4,834	68.0	70.0
16 and 17 years	2,322	2,309	59.7	61.0	2,296	2,273	59.4	60.7
18 and 19 years	2,932	2,971	79.9	83.3	2,592	22,561	77.9	81.1
20 to 24 years	7,802	7,534	91.1	91.8	6,146	5,742	89.0	89.5
25 to 54 years	33,311	33,202	96.0	96.4	32,243	31,952	95.8	96.3
25 to 34 years	12,052	11,819	96.9	97.6	11,401	11,039	96.7	97.4
35 to 44 years	10,776	10,942	96.7	97.1	10,427	10,555	96.6	97.0
45 to 54 years	10,483	10,441	94.2	94.5	10,415	10,358	94.1	94.4
55 to 64 years	7,106	7,074	82.6	83.3	7,102	7,071	82.6	83.3
55 to 59 years	4,219	4,192	89.3	89.8	4,216	4,189	89.3	89.8
60 to 64 years	2,887	2,882	74.4	75.3	2,886	2,882	74.4	75.3
65 years and over	2,161	2,217	26.7	27.7	2,161	2,217	26.7	27.7
White								
16 years and over	49,901	49,671	82.6	83.4	47,145	46,559	81.8	82.5
16 to 19 years	4,630	4,612	70.7	72.3	4,300	4,217	69.1	70.5
16 and 17 years	2,046	2,007	60.8	61.1	2,022	1,976	60.5	60.8
18 and 19 years	2,584	2,605	81.1	84.2	2,278	2,241	79.1	82.1
20 to 24 years	6,867	6,636	91.2	91.7	5,379	5,026	89.1	89.3
25 to 54 years	29,950	29,909	96.3	96.9	29,016	28,805	96.2	96.8
25 to 34 years	10,722	10,535	97.1	97.8	10,154	9,852	96.9	97.7
35 to 44 years	9,683	9,862	97.1	97.7	9,380	9,520	97.0	97.6
45 to 54 years	9,545	9,512	94.8	95.1	9,482	9,433	94.7	95.1
55 to 64 years	6,492	6,477	82.9	83.8	6,488	6,474	82.9	83.8
55 to 59 years	3,855	3,840	89.8	90.5	3,851	3,837	89.8	90.5
60 to 64 years	2,637	2,637	74.5	75.5	2,637	2,637	74.5	75.5
65 years and over	1,963	2,037	26.5	27.8	1,963	6,043	26.5	27.8
Negro and other races								
16 years and over	5,732	5,635	80.4	81.2	5,394	5,256	79.5	80.1
16 to 19 years	624	668	62.0	68.7	588	617	60.6	66.9
16 and 17 years	276	302	52.7	60.4	274	297	52.5	59.9
18 and 19 years	348	365	72.3	77.5	314	320	70.1	75.1
20 to 24 years	935	898	90.2	92.3	767	716	88.3	90.5
25 to 54 years	3,361	3,293	92.7	92.5	3,227	3,147	92.4	92.2
25 to 34 years	1,330	1,284	95.5	95.9	1,246	1,187	95.2	95.6
35 to 44 years	1,093	1,080	93.1	92.0	1,047	1,035	92.9	91.7
45 to 54 years	938	929	88.4	88.6	933	925	88.3	88.6
55 to 64 years	614	597	79.7	78.3	614	597	79.7	78.3
55 to 59 years	364	352	84.2	82.4	364	352	84.2	82.4
60 to 64 years	250	245	74.0	73.1	250	245	74.0	73.1
65 years and over	198	179	28.9	26.6	198	179	28.9	26.6

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	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
FEMALE								
16 years and over	31,615	30,740	43.3	42.9	31,575	30,701	43.3	42.9
16 to 19 years	3,893	3,802	52.6	52.9	3,884	3,792	52.5	52.8
16 and 17 years	1,670	1,567	43.9	42.4	1,670	1,567	43.8	42.4
18 and 19 years	2,223	2,235	61.8	63.9	2,214	2,225	61.7	63.8
20 to 24 years	4,998	4,712	58.7	57.7	4,979	4,694	58.6	57.6
25 to 54 years	17,668	17,202	48.5	47.7	17,655	17,191	48.5	47.6
25 to 34 years	5,515	5,229	43.4	42.2	5,508	5,223	43.3	42.2
35 to 44 years	5,722	5,687	49.1	48.2	5,718	5,683	49.0	48.2
45 to 54 years	6,431	6,286	53.5	52.8	6,429	6,284	53.5	52.8
55 to 64 years	4,051	4,021	41.9	42.4	4,051	4,021	41.9	42.4
55 to 59 years	2,500	2,531	48.0	49.4	2,500	2,531	48.0	49.4
60 to 64 years	1,551	1,490	34.8	34.1	1,551	1,490	34.8	34.1
65 years and over	1,005	1,003	9.2	9.4	1,005	1,003	9.2	9.4
White								
16 years and over	27,505	26,679	42.5	41.9	27,469	26,644	42.4	41.8
16 to 19 years	3,442	3,348	54.0	54.0	3,434	3,339	54.0	54.0
16 and 17 years	1,480	1,388	45.2	43.6	1,480	1,388	45.2	43.6
18 and 19 years	1,962	1,960	63.3	65.1	1,954	1,952	63.2	65.0
20 to 24 years	4,345	4,100	58.6	57.4	4,328	4,084	58.5	57.3
25 to 54 years	15,173	14,704	47.2	46.1	15,161	14,694	47.2	46.1
25 to 34 years	4,617	4,338	41.5	39.9	4,611	4,332	41.4	39.9
35 to 44 years	4,867	4,835	47.5	46.6	4,864	4,832	47.5	46.6
45 to 54 years	5,689	5,531	52.8	51.8	5,687	5,529	52.8	51.8
55 to 64 years	3,643	3,622	41.5	42.0	3,643	3,622	41.5	42.0
55 to 59 years	2,234	2,279	47.4	49.2	2,234	2,279	47.4	49.2
60 to 64 years	1,409	1,342	34.6	33.6	1,409	1,342	34.6	33.6
65 years and over	902	905	9.0	9.2	902	905	9.0	9.2
Negro and other races								
16 years and over	4,110	4,061	50.4	51.3	4,106	4,057	50.4	51.3
16 to 19 years	451	454	43.6	45.4	450	452	43.5	45.4
16 and 17 years	190	179	35.4	35.0	190	179	35.4	35.0
18 and 19 years	261	275	52.4	56.4	260	273	52.3	56.3
20 to 24 years	653	612	59.4	59.3	651	610	59.3	59.2
25 to 54 years	2,495	2,498	58.5	59.8	2,494	2,497	58.5	59.8
25 to 34 years	898	891	56.6	58.4	897	891	56.6	58.3
35 to 44 years	855	852	59.9	59.8	855	852	59.8	59.8
45 to 54 years	742	755	59.4	61.7	742	755	59.4	61.7
55 to 64 years	408	400	45.7	46.0	408	400	45.7	46.0
55 to 59 years	266	252	52.9	51.4	266	252	52.9	51.4
60 to 64 years	142	148	36.5	38.9	142	148	36.5	38.9
65 years and over	103	98	11.9	11.7	103	98	11.9	11.7

A- 5: Employment status of persons 16-21 years of age in the noninstitutional population by color and sex
August 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	21,953	11,074	10,880	18,981	9,613	9,368	2,972	1,460	1,512
Total labor force	14,445	8,393	6,052	12,689	7,374	5,316	1,756	1,019	737
Percent of population	65.8	75.8	55.6	66.9	76.7	56.7	59.1	69.8	48.7
Civilian labor force	13,146	7,113	6,033	11,529	6,230	5,299	1,617	883	734
Employed	11,609	6,311	5,299	10,373	5,615	4,758	1,237	696	541
Agriculture	686	555	130	600	497	103	85	58	27
Nonagricultural industries	10,924	5,756	5,168	9,772	5,118	4,655	1,151	638	514
Unemployed	1,537	802	734	1,156	615	541	380	187	193
Percent of labor force	11.7	11.3	12.2	10.0	9.9	10.2	23.5	21.2	26.3
Looking for full-time work	1,095	575	521	798	422	376	298	153	145
Looking for part-time work	441	228	213	358	193	165	83	34	48
Not in labor force	7,508	2,681	4,827	6,292	2,240	4,052	1,216	441	775
Major activity: going to school									
Civilian labor force	196	88	108	158	67	92	37	21	16
Employed	149	61	88	126	46	81	23	15	7
Agriculture	3	3	--	2	2	--	1	1	--
Nonagricultural industries	146	58	88	124	43	81	22	15	7
Unemployed	46	27	19	32	21	11	15	6	9
Percent of labor force	23.7	30.7	18.1	20.1	31.5	11.8	39.3	28.2	54.4
Looking for full-time work	12	3	9	6	3	4	6	1	6
Looking for part-time work	34	24	10	26	18	7	8	5	3
Not in labor force	762	335	426	594	269	326	167	67	101
Major activity: other									
Civilian labor force	12,950	7,025	5,925	11,371	6,164	5,207	1,580	861	718
Employed	11,460	6,250	5,210	10,246	5,569	4,677	1,214	680	533
Agriculture	683	553	130	598	495	103	84	57	27
Nonagricultural industries	10,778	5,697	5,080	9,648	5,074	4,574	1,130	623	507
Unemployed	1,490	775	715	1,124	594	530	366	181	185
Percent of labor force	11.5	11.0	12.1	9.9	9.6	10.2	23.1	21.0	25.7
Looking for full-time work	1,083	571	512	792	419	372	291	152	139
Looking for part-time work	407	204	203	333	175	158	74	29	45
Not in labor force	6,747	2,346	4,401	5,697	1,971	3,726	1,049	375	674

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	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total								
Total noninstitutional population	140,468	138,127	59,980	59,133	65,523	64,452	14,965	14,542
Total labor force	87,248	86,046	50,379	50,026	27,772	26,938	9,147	9,081
Percent of population	62.1	62.3	84.0	84.6	42.3	41.8	61.1	62.4
Civilian labor force	84,115	82,516	47,652	46,981	27,690	26,909	8,772	8,625
Employed	79,894	79,646	46,030	46,096	26,229	25,790	7,635	7,761
Agriculture	3,782	3,977	2,614	2,766	581	658	587	552
Nonagricultural industries	76,112	75,669	43,416	43,329	25,648	25,132	7,048	7,208
Unemployed	4,220	2,869	1,622	886	1,461	1,119	1,137	865
Percent of labor force	5.0	3.5	3.4	1.9	5.3	4.2	13.0	10.0
Not in labor force	53,220	52,081	9,601	9,107	37,801	37,514	5,818	5,460
White								
Total noninstitutional population	125,190	123,276	53,859	53,164	58,407	57,541	12,923	12,571
Total labor force	77,406	76,350	45,271	45,059	24,063	23,331	8,071	7,960
Percent of population	61.8	61.9	84.1	84.8	41.2	40.5	62.5	63.3
Civilian labor force	74,614	73,203	42,846	42,342	24,035	23,304	7,734	7,556
Employed	71,208	70,946	41,496	41,627	22,852	22,419	6,860	6,901
Agriculture	3,361	3,549	2,339	2,492	509	573	513	483
Nonagricultural industries	67,846	67,397	39,157	39,135	22,342	21,845	6,347	6,417
Unemployed	3,407	2,257	1,350	715	1,183	886	874	656
Percent of labor force	4.6	3.1	3.2	1.7	4.9	3.8	11.3	8.7
Not in labor force	47,784	46,926	8,588	8,105	34,344	34,210	4,851	4,611
Negro and other races								
Total noninstitutional population	15,278	14,851	6,121	5,969	7,115	6,911	2,042	1,970
Total labor force	9,842	9,696	5,108	4,967	3,659	3,608	1,076	1,121
Percent of population	64.4	65.3	83.5	83.2	51.4	52.2	52.7	56.9
Civilian labor force	9,500	9,313	4,806	4,639	3,656	3,605	1,038	1,069
Employed	8,687	8,700	4,534	4,469	3,378	2,371	775	860
Agriculture	421	428	275	274	72	85	75	69
Nonagricultural industries	8,266	8,272	4,259	4,195	3,306	3,286	700	791
Unemployed	814	613	272	171	278	233	263	209
Percent of labor force	8.6	6.6	5.7	3.7	7.6	6.5	25.4	19.5
Not in labor force	5,436	5,155	1,013	1,002	3,457	3,304	966	849

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

August 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 ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
16 years and over	74,610	68,185	2,984	3,441	4.6	9,504	8,725	779	8.2
16 to 21 years	10,390	8,216	1,079	1,095	10.5	2,756	2,315	441	16.0
16 to 19 years	6,439	4,789	907	743	11.5	2,333	1,938	394	16.9
16 and 17 years	2,363	1,605	517	241	10.2	1,603	1,324	279	17.4
18 and 19 years	4,076	3,185	390	501	12.3	730	614	115	15.8
20 years and over	68,171	63,395	2,077	2,699	4.0	7,172	6,787	385	5.4
20 to 24 years	10,200	8,981	402	816	8.0	925	827	99	10.7
25 years and over	57,971	54,414	1,675	1,883	3.2	6,247	5,960	286	4.6
25 to 54 years	46,024	43,199	1,241	1,584	3.4	3,875	3,660	214	5.5
55 years and over	11,947	11,215	434	298	2.5	2,371	2,300	72	3.0
MALE									
16 years and over	49,453	45,912	1,657	1,884	3.8	3,087	2,763	324	10.5
16 to 21 years	5,817	4,628	614	575	9.9	1,297	1,069	228	17.6
16 to 19 years	3,750	2,842	521	387	10.3	1,137	939	198	17.4
20 years and over	45,702	43,070	1,136	1,496	3.3	1,950	1,824	126	6.5
20 to 24 years	5,809	5,146	239	423	7.3	337	285	52	15.5
25 years and over	39,893	37,924	897	1,073	2.7	1,613	1,539	74	4.6
25 to 54 years	31,714	30,197	657	860	2.7	529	489	40	7.6
55 years and over	8,179	7,726	240	213	2.6	1,084	1,049	34	3.1
FEMALE									
16 years and over	25,157	22,273	1,327	1,558	6.2	6,417	5,962	455	7.1
16 to 21 years	4,573	3,588	465	521	11.4	1,459	1,246	213	14.6
16 to 19 years	2,689	1,948	386	355	13.2	1,195	999	196	16.4
20 years and over	22,469	20,325	941	1,202	5.4	5,222	4,963	259	5.0
20 to 24 years	4,391	3,835	163	393	8.9	588	542	46	7.9
25 years and over	18,078	16,490	778	809	4.5	4,634	4,421	213	4.6
25 to 54 years	14,309	13,002	584	724	5.1	3,346	3,171	175	5.2
55 years and over	3,767	3,488	195	85	2.3	1,289	1,251	38	2.9

A- 8: Unemployed persons by sex and age

Age	Male				Female			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total, 16 years and over	2,207	1,293	4.2	2.5	2,013	1,577	6.4	5.1
16 to 19 years	585	407	12.0	8.4	552	458	14.2	12.1
16 and 17 years	284	251	12.4	11.1	237	204	14.2	13.0
18 and 19 years	301	156	11.6	6.1	315	254	14.2	11.4
20 years and over	1,622	886	3.4	1.9	1,461	1,119	5.3	4.2
20 to 24 years	476	237	7.7	4.1	439	328	8.8	7.0
25 years and over	1,147	648	2.8	1.6	1,022	791	4.5	3.6
25 to 34 years	416	211	3.7	1.9	364	269	6.6	5.2
35 to 44 years	249	130	2.4	1.2	278	244	4.9	4.3
45 to 54 years	234	137	2.2	1.3	256	169	4.0	2.7
55 to 64 years	187	118	2.6	1.7	103	100	2.5	2.5
55 to 59 years	125	77	3.0	1.8	65	58	2.6	2.3
60 to 64 years	62	41	2.1	1.4	37	42	2.4	2.8
65 years and over	60	52	2.8	2.4	20	9	2.0	.8
Household head, 16 years and over	1,148	619	2.7	1.5	294	239	4.6	3.8
16 to 24 years	177	93	5.1	3.0	53	45	8.0	8.0
25 to 54 years	735	367	2.5	1.2	181	148	5.1	4.2
55 years and over	235	160	2.6	1.8	59	45	2.8	2.1

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	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total, 16 years and over	2,207	1,293	4.2	2.5	2,013	1,577	6.4	5.1
Married, spouse present	1,006	535	2.6	1.4	983	778	5.5	4.5
Widowed, divorced, or separated	207	104	7.1	3.8	324	252	5.7	4.4
Single (never married)	994	654	9.3	6.4	705	547	8.8	7.0
Total, 20 to 64 years of age	1,562	834	3.4	1.9	1,441	1,110	5.4	4.3
Married, spouse present	943	489	2.6	1.3	920	706	5.3	4.3
Widowed, divorced, or separated	194	85	7.5	3.6	299	226	5.9	4.5
Single (never married)	425	259	7.1	4.6	222	179	5.0	4.1
White, 16 years and over	1,815	1,021	3.8	2.2	1,592	1,236	5.8	4.6
Married, spouse present	877	456	2.5	1.3	839	670	5.3	4.4
Widowed, divorced, or separated	166	74	7.2	3.4	233	162	5.2	3.6
Single (never married)	771	491	8.3	5.5	520	404	7.4	5.9
White, 20 to 64 years of age	1,300	668	3.2	1.7	1,162	878	5.0	3.9
Married, spouse present	821	414	2.4	1.2	789	607	5.1	4.1
Widowed, divorced, or separated	157	58	7.6	3.1	215	145	5.4	3.7
Single (never married)	323	196	6.2	4.0	158	125	4.2	3.3
Negro and other races, 16 years and over	393	272	7.3	5.2	421	341	10.3	8.4
Married, spouse present	129	78	3.8	2.3	145	108	7.5	5.6
Widowed, divorced, or separated	41	30	6.7	5.2	91	90	7.9	7.8
Single (never married)	223	163	15.9	12.5	185	143	18.4	14.5
Negro and other races, 20 to 64 years of age	261	165	5.7	3.7	278	232	7.8	6.6
Married, spouse present	122	75	3.8	2.3	130	98	7.0	5.3
Widowed, divorced, or separated	37	26	6.8	5.0	85	81	7.8	7.6
Single (never married)	102	64	12.3	9.0	64	53	10.6	9.1

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Male		Female	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total.....	4,220	2,869	5.0	3.5	4.2	2.5	6.4	5.1
White-collar workers.....	1,141	873	3.0	2.3	1.8	1.2	4.2	3.6
Professional and technical.....	282	189	2.6	1.9	1.8	1.1	3.9	3.2
Managers, officials, and proprietors.....	118	85	1.4	1.0	1.2	.8	2.4	2.2
Clerical workers.....	565	475	4.0	3.3	2.8	1.9	4.4	3.8
Sales workers.....	177	123	3.5	2.5	2.2	1.6	5.0	3.7
Blue-collar workers.....	1,863	1,022	6.0	3.3	5.3	2.7	9.5	6.3
Craftsmen and foremen.....	365	176	3.4	1.6	3.3	1.6	4.5	2.6
Carpenters and other construction craftsmen.....	178	77	5.7	2.5	5.8	2.5	(1)	-
All other.....	187	99	2.4	1.3	2.3	1.2	4.2	2.7
Operatives.....	1,121	610	7.3	3.9	6.2	2.8	9.7	6.2
Drivers and deliverymen.....	109	58	4.1	2.2	4.2	1.9	(1)	(1)
All other.....	1,012	552	7.9	4.3	6.8	3.1	9.8	6.1
Nonfarm laborers.....	377	236	8.0	5.3	7.7	4.8	14.4	14.6
Construction laborers.....	117	76	10.2	7.3	9.8	7.3	(1)	-
All other.....	260	160	7.3	4.7	7.0	4.0	12.5	14.9
Service workers.....	564	443	5.4	4.4	4.8	4.2	5.7	4.6
Private household.....	89	57	5.8	3.6	(1)	(1)	5.9	3.5
All other.....	475	386	5.4	4.6	4.8	4.2	5.7	4.9
Farmers and farm laborers.....	82	60	2.4	1.6	2.6	1.5	1.1	2.3
No previous work experience.....	569	472	-	-	-	-	-	-
16 to 19 years.....	459	384	-	-	-	-	-	-
20 to 24 years.....	65	60	-	-	-	-	-	-
25 years and over.....	45	28	-	-	-	-	-	-

¹ 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	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total.....	100.0	100.0	5.0	3.5	4.2	2.5	6.4	5.1
Private wage and salary workers.....	75.3	69.9	5.2	3.3	4.6	2.5	6.1	4.7
Mining.....	.5	.6	4.3	3.2	3.9	2.5	(1)	(1)
Construction.....	7.7	6.3	7.9	4.4	7.8	4.4	8.9	5.4
Manufacturing.....	29.3	22.0	5.6	2.8	4.7	1.9	8.0	5.1
Durable goods.....	18.0	11.6	5.9	2.5	5.2	2.0	8.4	4.4
Primary metal industries.....	1.3	1.1	4.0	2.4	3.7	2.2	7.1	4.1
Fabricated metal products.....	2.3	1.9	5.6	3.1	4.7	2.4	9.3	5.4
Machinery.....	2.8	1.3	5.1	1.6	4.4	1.3	8.0	3.2
Electrical equipment.....	2.9	2.4	5.8	3.2	3.4	1.7	9.2	5.3
Motor vehicles and equipment.....	3.0	1.4	9.7	3.1	9.3	3.2	12.8	2.2
All other transportation equipment.....	2.3	.9	7.8	2.1	7.0	1.7	13.2	4.3
Other durable goods industries.....	3.5	2.5	5.1	2.5	5.1	2.0	5.3	4.0
Nondurable goods.....	11.3	10.4	5.3	3.3	3.6	1.8	7.8	5.6
Food and kindred products.....	2.6	2.7	5.7	3.8	4.9	2.7	7.7	6.9
Textile mill products.....	1.6	1.7	6.3	4.5	3.0	2.7	9.7	6.6
Apparel and other finished textile products.....	2.5	2.6	7.4	5.3	6.2	4.0	7.8	5.6
Other nondurable goods industries.....	4.6	3.4	4.2	2.1	3.0	1.0	7.0	4.7
Transportation and public utilities.....	3.4	3.1	3.0	1.9	3.0	1.4	3.0	3.6
Railroads and railway express.....	.3	.4	1.8	1.5	2.0	1.6	-	-
Other transportation.....	2.2	1.3	4.6	1.9	4.9	1.9	3.1	1.9
Communication and other public utilities.....	.9	1.4	1.9	2.0	1.1	.6	3.2	4.6
Wholesale and retail trade.....	16.9	19.2	5.2	4.1	4.2	3.1	6.5	5.5
Finance, insurance, and real estate.....	2.4	2.3	2.7	1.8	2.0	.9	3.3	2.7
Service industries.....	15.0	16.5	5.0	4.0	4.4	3.4	5.3	4.3
Professional services.....	4.8	5.2	3.4	2.8	2.6	1.9	3.7	3.2
All other service industries.....	10.2	11.3	6.5	5.0	5.7	4.4	7.0	5.5
Agricultural wage and salary workers.....	2.3	2.6	6.5	5.1	6.9	4.5	4.3	7.5
All other classes of workers.....	9.0	11.0	1.8	1.6	1.1	.9	3.2	2.7
No previous work experience.....	13.5	16.5	-	-	-	-	-	-

¹ 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	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Unemployment level												
Total unemployed, in thousands	4,220	2,869	1,622	886	1,461	1,119	1,137	865	3,407	2,257	814	613
Lost last job	1,773	894	1,016	469	515	310	242	115	1,480	684	292	210
Left last job	639	507	217	192	274	196	148	119	528	418	111	89
Reentered labor force	1,242	997	342	200	611	549	288	248	967	803	275	194
Never worked before	567	471	48	24	61	64	458	383	432	352	135	119
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	42.0	31.2	62.6	53.0	35.3	27.6	21.4	13.4	43.5	30.2	35.9	34.3
Left last job	15.1	17.7	13.4	21.7	18.8	17.5	13.0	13.8	15.5	18.5	13.7	14.5
Reentered labor force	29.4	34.7	21.1	22.6	41.8	49.1	25.4	28.7	28.4	35.6	33.8	31.6
Never worked before	13.4	16.4	2.9	2.7	4.2	5.7	40.3	44.3	12.7	15.6	16.6	19.5
Unemployment rate												
Total unemployment rate	5.0	3.5	3.4	1.9	5.3	4.2	13.0	10.0	4.6	3.1	8.6	6.6
Job-loser rate ¹	2.1	1.0	2.1	1.0	1.8	1.1	2.7	1.3	2.0	.9	3.0	2.3
Job-leaver rate ¹ . . . . .	.8	.6	.5	.4	1.0	.7	1.7	1.4	.7	.6	1.2	1.0
Reentrant rate ¹	1.5	1.2	.7	.4	2.2	2.0	3.3	2.9	1.3	2.1	2.9	2.1
New entrant rate ¹ . . . . .	.7	.6	.1	.1	.2	.2	5.2	4.4	.6	.5	1.4	1.3

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

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

August 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
Total, 16 years and over	4,220	100.0	50.8	35.0	14.2	8.3	5.9
Lost last job	1,773	100.0	44.7	34.2	21.0	12.3	8.7
Left last job	639	100.0	62.6	26.1	11.3	4.9	6.4
Reentered labor force	1,242	100.0	57.4	33.7	8.9	5.6	3.3
Never worked before	567	100.0	42.1	50.4	7.6	5.3	2.3
Male, 20 years and over	1,622	100.0	47.6	32.5	19.9	9.7	10.2
Lost last job	1,016	100.0	45.9	31.9	22.2	11.2	11.0
Left last job	217	100.0	58.7	24.3	17.0	5.5	11.5
Reentered labor force	342	100.0	47.4	38.6	14.0	8.2	5.8
Never worked before	48	100.0	(1)	(1)	(1)	(1)	(1)
Female, 20 years and over	1,461	100.0	54.3	31.5	14.2	9.4	4.8
Lost last job	515	100.0	33.0	42.3	24.7	17.5	7.2
Left last job	274	100.0	65.6	24.5	9.9	4.8	5.1
Reentered labor force	611	100.0	67.2	25.2	7.5	4.9	2.6
Never worked before	61	100.0	(1)	(1)	(1)	(1)	(1)
Both sexes, 16 to 19 years	1,137	100.0	50.9	43.2	5.9	4.7	1.2
Lost last job	242	100.0	65.3	26.0	8.7	6.2	2.5
Left last job	148	100.0	62.4	32.2	5.3	4.0	1.3
Reentered labor force	288	100.0	48.4	45.7	5.9	4.2	1.7
Never worked before	458	100.0	41.0	54.4	4.6	4.6	-

¹Percent 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	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total.....	4,220	2,869	100.0	100.0	1,442	858	100.0	100.0
Less than 5 weeks.....	2,144	1,600	50.8	55.8	701	450	48.6	52.5
5 to 14 weeks.....	1,478	957	35.0	33.4	459	271	31.8	31.6
5 to 10 weeks.....	1,075	742	25.5	25.9	338	212	23.4	24.7
11 to 14 weeks.....	403	215	9.5	7.5	121	59	8.4	6.9
15 weeks and over.....	598	313	14.2	10.9	282	136	19.6	15.9
15 to 26 weeks.....	349	181	8.3	6.3	152	77	10.5	9.0
27 weeks and over.....	249	131	5.9	4.6	130	59	9.0	6.9
Average (mean) duration.....	8.6	7.7	-	-	10.0	9.0	-	-

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

August 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	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total	4,220	2,144	1,478	349	249	50.8	55.8	14.2	10.9
16 to 21 years.....	1,537	781	646	78	31	50.8	56.7	7.1	4.4
16 to 19 years.....	1,137	579	491	53	14	50.9	53.7	5.9	3.0
20 to 24 years.....	915	499	320	52	44	54.5	64.2	10.5	9.0
25 to 44 years.....	1,308	699	384	127	97	53.4	58.0	17.1	13.1
45 years and over.....	860	368	283	116	94	42.7	47.6	24.4	21.0
Male	2,207	1,043	806	181	178	47.3	51.8	16.2	12.0
16 to 21 years.....	802	376	364	39	23	46.9	55.7	7.7	3.0
16 to 19 years.....	585	271	279	23	12	46.3	53.9	6.1	2.0
20 to 24 years.....	476	240	177	25	34	50.5	60.1	12.3	10.9
25 to 44 years.....	665	312	217	72	64	46.9	53.1	20.5	14.4
45 years and over.....	481	219	133	61	68	45.6	41.2	26.8	23.3
Female	2,013	1,101	672	168	72	54.7	59.0	11.9	10.0
16 to 21 years.....	734	405	282	40	8	55.2	57.5	6.5	5.6
16 to 19 years.....	552	308	212	30	2	55.8	53.4	5.7	3.9
20 to 24 years.....	439	258	143	27	11	58.8	67.2	8.6	7.7
25 to 44 years.....	642	386	167	56	33	60.1	61.2	13.9	12.3
45 years and over.....	379	148	150	55	26	39.2	54.6	21.3	18.5
White: Total	3,407	1,755	1,172	276	204	51.5	57.7	14.1	10.7
Male.....	1,815	874	657	134	149	48.2	52.9	15.6	12.1
Female.....	1,592	881	515	142	55	55.3	61.6	12.3	9.6
Negro and other races: Total	814	389	306	73	45	47.9	48.8	14.5	11.4
Male.....	393	169	149	46	28	43.1	47.7	19.1	11.3
Female.....	421	220	157	26	17	52.4	49.7	10.3	11.6
Male: Married, wife present	1,006	490	313	101	103	48.7	50.0	20.2	14.9
Widowed, divorced, or separated.....	207	102	54	25	26	49.2	49.4	24.9	31.5
Single (never married).....	994	452	439	55	49	45.4	53.6	10.4	6.5
Female: Married, husband present	983	577	269	92	46	58.7	63.0	14.0	11.1
Widowed, divorced, or separated.....	324	156	128	30	9	48.2	63.2	12.2	14.2
Single (never married).....	705	368	275	46	17	52.1	51.4	8.9	6.6

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

August 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	Aug.	Aug.	Aug.	Aug.
						1970	1969	1970	1969
OCCUPATION									
White-collar workers.....	1,141	598	356	109	77	52.5	58.4	16.3	13.0
Professional and managerial.....	400	198	137	31	32	49.7	49.3	15.8	15.0
Clerical workers.....	565	291	175	68	31	51.5	63.3	17.5	10.1
Sales workers.....	177	110	44	10	13	62.1	59.8	13.0	19.1
Blue-collar workers.....	1,863	911	647	165	141	48.9	59.4	16.4	12.6
Craftsmen and foremen.....	365	172	110	39	44	47.2	59.9	22.7	12.4
Operatives.....	1,121	563	403	85	70	50.3	58.4	13.8	13.0
Nonfarm laborers.....	377	175	134	42	27	46.4	61.8	18.2	11.4
Service workers.....	564	332	172	43	17	58.8	58.3	10.6	10.7
INDUSTRY ¹									
Agriculture.....	95	68	21	4	2	(2)	(2)	(2)	(2)
Construction.....	338	172	98	42	26	50.8	63.8	20.2	9.9
Manufacturing.....	1,240	582	434	114	110	46.9	60.2	18.1	13.6
Durable goods.....	759	339	261	73	86	44.7	58.2	20.9	15.2
Nondurable goods.....	482	243	172	41	25	50.5	62.4	13.7	11.8
Transportation and public utilities.....	156	77	60	9	10	49.3	(2)	12.1	(2)
Wholesale and retail trade.....	721	385	232	64	41	53.3	61.4	14.5	12.9
Finance and service industries.....	941	529	299	77	36	56.2	56.6	12.0	11.1
Public administration.....	84	43	26	7	8	(2)	(2)	(2)	(2)
No previous work experience.....	569	241	285	30	13	42.4	41.6	7.4	4.3

¹ Includes wage and salary workers only.² 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	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
All industries	79,894	79,646	50,333	50,522	29,562	29,124
16 to 19 years.....	7,635	7,761	4,302	4,427	3,332	3,334
16 and 17 years.....	3,446	3,384	2,012	2,022	1,433	1,363
18 and 19 years.....	4,189	4,376	2,290	2,405	1,899	1,971
20 to 24 years.....	10,210	9,871	5,670	5,505	4,540	4,366
25 to 54 years.....	48,100	47,982	31,343	31,474	16,756	16,509
25 to 34 years.....	16,128	15,781	10,984	10,827	5,143	4,954
35 to 44 years.....	15,618	15,865	10,178	10,426	5,440	5,439
45 to 54 years.....	16,354	16,337	10,181	10,221	6,173	6,115
55 to 64 years.....	10,864	10,874	6,915	6,953	3,949	3,921
55 to 59 years.....	6,525	6,585	4,091	4,112	2,435	2,473
60 to 64 years.....	4,338	4,289	2,825	2,841	1,514	1,448
65 years and over.....	3,085	3,158	2,101	2,164	984	994
Nonagricultural industries	76,112	75,699	47,243	47,299	28,869	28,370
16 to 19 years.....	7,048	7,208	3,827	3,970	3,221	3,238
16 and 17 years.....	3,070	3,034	1,712	1,730	1,358	1,304
18 and 19 years.....	3,978	4,174	2,115	2,240	1,863	1,934
20 to 24 years.....	9,943	9,634	5,452	5,307	4,491	4,327
25 to 54 years.....	46,330	46,024	29,957	29,977	16,373	16,047
25 to 34 years.....	15,651	15,256	10,603	10,426	5,049	4,830
35 to 44 years.....	15,043	15,207	9,749	9,923	5,294	5,284
45 to 54 years.....	15,637	15,561	9,606	9,628	6,031	5,933
55 to 64 years.....	10,197	10,140	6,354	6,324	3,844	3,816
55 to 59 years.....	6,190	6,198	3,809	3,796	2,381	2,402
60 to 64 years.....	4,008	3,942	2,545	2,528	1,463	1,414
65 years and over.....	2,594	2,663	1,653	1,721	941	942
Agriculture	3,782	3,977	3,090	3,223	693	754
16 to 19 years.....	587	552	476	457	112	96
16 and 17 years.....	376	350	300	291	76	59
18 and 19 years.....	211	203	176	165	36	37
20 to 24 years.....	268	237	219	198	49	39
25 to 54 years.....	1,769	1,958	1,386	1,497	383	461
25 to 34 years.....	476	525	381	401	95	124
35 to 44 years.....	576	658	430	503	146	155
45 to 54 years.....	718	775	575	593	143	182
55 to 64 years.....	666	734	561	629	105	106
55 to 59 years.....	336	387	282	316	54	71
60 to 64 years.....	331	347	279	313	51	35
65 years and over.....	492	496	448	443	44	52

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	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total	79,894	79,646	46,030	46,096	26,229	25,790	4,302	4,427	3,332	3,334
White-collar workers	37,505	36,604	19,214	18,701	15,804	15,242	736	787	1,751	1,873
Professional and technical	10,547	10,004	6,561	6,369	3,767	3,366	106	121	113	148
Medical and other health	1,710	1,703	659	728	1,024	939	5	6	21	30
Teachers, except college	1,969	1,699	619	504	1,335	1,185	6	2	9	8
Other professional and technical	6,869	6,602	5,284	5,137	1,408	1,242	94	113	84	110
Managers, officials, and proprietors	8,347	8,077	6,937	6,715	1,361	1,307	35	37	13	19
Salaried workers	6,025	5,666	5,045	4,740	935	878	33	31	12	17
Self-employed workers in retail trade	1,100	1,171	843	898	252	268	2	3	2	2
Self-employed workers, except retail trade	1,222	1,240	1,049	1,077	173	161	--	2	--	--
Clerical workers	13,665	13,744	3,161	3,171	8,907	8,846	338	387	1,259	1,340
Stenographers, typists, and secretaries	3,528	3,554	47	59	3,108	3,086	6	15	367	394
Other clerical workers	10,137	10,190	3,114	3,112	5,799	5,759	332	372	892	946
Sales workers	4,947	4,779	2,554	2,446	1,769	1,724	258	242	366	367
Retail trade	3,011	2,934	929	864	1,530	1,497	215	214	338	359
Other sales workers	1,935	1,845	1,626	1,582	239	227	43	28	28	8
Blue-collar workers	29,140	29,896	21,699	22,134	4,590	4,755	2,514	2,607	336	401
Craftsmen and foremen	10,524	10,678	9,777	9,934	352	358	378	375	17	11
Carpenters	833	903	806	868	--	1	27	32	--	2
Construction craftsmen, except carpenters	2,096	2,094	1,971	1,986	29	7	93	100	4	--
Mechanics and repairmen	2,866	2,858	2,676	2,673	19	41	168	145	3	--
Metal craftsmen, except mechanics	1,232	1,252	1,188	1,217	21	14	23	20	--	1
Other craftsmen and kindred workers	2,018	2,011	1,766	1,753	181	181	60	71	11	6
Foremen, not elsewhere classified	1,478	1,559	1,370	1,437	102	114	6	6	--	2
Operatives	14,267	14,997	8,911	9,329	4,102	4,255	958	1,059	296	354
Drivers and deliverymen	2,520	2,613	2,301	2,401	70	57	145	151	5	4
Other operatives	11,746	12,384	6,611	6,928	4,032	4,198	812	909	292	350
Durable goods manufacturing	4,764	5,214	3,193	3,436	1,302	1,400	211	281	59	97
Nondurable goods manufacturing	3,975	4,127	1,597	1,660	2,059	2,091	153	202	166	174
Other industries	3,007	3,043	1,821	1,832	671	707	448	426	67	79
Nonfarm laborers	4,349	4,221	3,010	2,872	137	142	1,179	1,173	23	35
Construction	1,026	969	800	712	3	4	220	253	3	--
Manufacturing	1,115	1,182	881	885	61	82	170	210	3	5
Other industries	2,208	2,070	1,330	1,275	73	55	788	709	17	30
Service workers	9,831	9,508	2,740	2,717	5,322	5,196	624	615	1,145	980
Private household workers	1,458	1,523	33	27	1,082	1,188	11	12	332	296
Service workers, except private household	8,373	7,985	2,707	2,689	4,241	4,008	612	603	813	685
Protective service workers	1,052	1,047	933	923	52	42	45	61	22	21
Waiters, cooks, and bartenders	2,328	2,096	403	377	1,349	1,269	164	139	412	312
Other service workers	4,993	4,842	1,371	1,389	2,840	2,698	404	404	379	352
Farm workers	3,419	3,638	2,378	2,544	512	596	428	418	101	80
Farmers and farm managers	1,773	1,933	1,684	1,837	71	79	17	17	1	1
Farm laborers and foremen	1,646	1,704	693	707	442	517	411	401	100	79
Paid workers	1,087	1,122	634	659	109	153	291	269	54	42
Unpaid family workers	559	582	60	48	333	364	120	132	46	37

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

(Percent distribution)

Occupation group and color	Total		Male		Female	
	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total						
Total employed (thousands)	79,894	79,646	50,333	50,522	29,562	29,124
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	46.9	46.0	39.6	38.6	59.4	58.8
Professional and technical	13.2	12.6	13.2	12.8	13.1	12.1
Managers, officials, and proprietors	10.4	10.1	13.9	13.4	4.7	4.6
Clerical workers	17.1	17.3	7.0	7.0	34.4	35.0
Sales workers	6.2	6.0	5.6	5.3	7.2	7.2
Blue-collar workers	36.5	37.5	48.1	49.0	16.7	17.7
Craftsmen and foremen	13.2	13.4	20.2	20.4	1.2	1.3
Operatives	17.9	18.8	19.6	20.6	14.9	15.8
Nonfarm laborers	5.4	5.3	8.3	8.0	.5	.6
Service workers	12.3	11.9	6.7	6.6	21.9	21.2
Private household workers	1.8	1.9	.1	.1	4.8	5.1
Other service workers	10.5	10.0	6.6	6.5	17.1	16.1
Farm workers	4.3	4.6	5.6	5.9	2.1	2.3
Farmers and farm managers	2.2	2.4	3.4	3.7	.2	.3
Farm laborers and foremen	2.1	2.1	2.2	2.2	1.8	2.0
White						
Total employed (thousands)	71,208	70,946	45,331	45,538	25,877	25,408
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	49.3	48.4	41.6	40.5	62.8	62.5
Professional and technical	13.7	13.2	13.8	13.5	13.5	12.5
Managers, officials, and proprietors	11.3	11.0	14.9	14.4	5.0	5.0
Clerical workers	17.6	17.7	6.9	6.9	36.4	37.1
Sales workers	6.7	6.5	6.0	5.7	7.9	7.9
Blue-collar workers	35.7	36.8	46.9	47.7	16.1	17.3
Craftsmen and foremen	13.8	14.0	20.9	21.1	1.3	1.3
Operatives	17.1	18.2	18.7	19.8	14.3	15.4
Nonfarm laborers	4.8	4.6	7.2	6.9	.5	.6
Service workers	10.7	10.2	5.9	5.9	19.1	18.0
Private household workers	1.2	1.2	.1	.1	3.2	3.2
Other service workers	9.5	9.1	5.9	5.8	15.9	14.8
Farm workers	4.3	4.6	5.6	5.8	2.0	2.3
Farmers and farm managers	2.4	2.6	3.6	3.9	.2	.3
Farm laborers and foremen	1.9	2.0	2.0	1.9	1.8	2.0
Negro and other races						
Total employed (thousands)	8,687	8,700	5,002	4,984	3,685	3,716
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	27.6	26.3	21.6	20.8	35.6	33.6
Professional and technical	9.0	7.6	8.1	6.5	10.1	9.1
Managers, officials, and proprietors	3.4	3.0	4.1	4.3	2.5	1.3
Clerical workers	12.9	13.6	7.4	8.3	20.4	20.7
Sales workers	2.3	2.1	2.1	1.8	2.6	2.5
Blue-collar workers	43.0	43.3	59.4	60.2	20.7	20.5
Craftsmen and foremen	7.9	8.7	13.2	14.4	.7	1.1
Operatives	24.3	23.8	28.1	27.7	19.1	18.5
Nonfarm laborers	10.8	10.8	18.2	18.1	.8	.9
Service workers	25.2	25.9	13.3	12.9	41.3	43.4
Private household workers	7.0	7.9	.3	.2	16.1	18.3
Other service workers	18.2	17.9	13.1	12.6	25.2	25.1
Farm workers	4.3	4.6	5.6	6.1	2.4	2.6
Farmers and farm managers	1.1	1.0	1.7	1.6	.2	.2
Farm laborers and foremen	3.2	3.6	3.9	4.5	2.2	2.4

A-20: Employed persons by class of worker, sex, and age
 August 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					
Total	70,267	1,747	11,923	56,597	5,317	528	1,375	1,833	574
16 to 19 years.....	6,942	451	743	5,748	55	51	395	23	169
16 and 17 years.....	3,007	370	309	2,328	31	32	252	6	118
18 and 19 years.....	3,935	81	434	3,420	24	19	143	17	51
20 to 24 years.....	9,756	118	1,532	8,105	163	24	166	50	52
25 to 34 years.....	14,769	133	2,385	12,251	797	86	208	201	67
35 to 44 years.....	13,795	203	2,471	11,121	1,139	108	182	297	97
45 to 54 years.....	14,031	286	2,800	10,945	1,451	155	190	434	93
55 to 64 years.....	8,930	335	1,714	6,882	1,183	84	159	441	65
55 to 59 years.....	5,442	185	1,041	4,216	693	55	86	211	38
60 to 64 years.....	3,488	149	673	2,666	490	29	73	230	27
65 years and over.....	2,044	222	278	1,545	529	20	74	387	30
Male	43,099	258	6,784	36,057	4,077	66	1,153	1,756	181
16 to 19 years.....	3,757	117	360	3,280	32	38	333	22	120
16 and 17 years.....	1,661	95	164	1,402	25	26	208	6	86
18 and 19 years.....	2,095	21	196	1,878	7	12	125	16	34
20 to 24 years.....	5,323	14	696	4,613	120	9	134	50	34
25 to 34 years.....	9,996	14	1,450	8,531	597	10	179	197	6
35 to 44 years.....	8,843	20	1,481	7,342	903	3	142	284	4
45 to 54 years.....	8,491	26	1,636	6,329	1,114	--	156	419	--
55 to 64 years.....	5,454	33	972	4,449	899	1	140	419	2
55 to 59 years.....	3,283	17	590	2,677	526	--	78	203	1
60 to 64 years.....	2,171	16	383	1,772	373	2	62	216	1
65 years and over.....	1,235	34	188	1,013	412	6	69	364	15
Female	27,168	1,489	5,139	20,540	1,240	462	222	77	393
16 to 19 years.....	3,185	334	383	2,468	23	13	62	1	49
16 and 17 years.....	1,345	274	145	926	6	6	44	--	32
18 and 19 years.....	1,840	59	238	1,542	17	6	18	1	17
20 to 24 years.....	4,433	104	836	3,493	43	15	32	--	17
25 to 34 years.....	4,773	119	935	3,720	199	76	29	4	62
35 to 44 years.....	4,952	183	991	3,778	237	106	40	13	94
45 to 54 years.....	5,540	260	1,164	4,116	336	154	34	15	94
55 to 64 years.....	3,476	301	742	2,433	284	83	20	22	63
55 to 59 years.....	2,159	169	451	1,539	167	56	8	8	37
60 to 64 years.....	1,317	133	290	894	118	28	11	14	26
65 years and over.....	809	188	89	532	117	14	5	23	15

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					
	Aug. 1970	Aug. 1969	Total		Wage and salary workers ¹			
			Aug. 1970	Aug. 1969	Paid absence ²		Unpaid absence ²	
					Aug. 1970	Aug. 1969	Aug. 1970	Aug. 1969
Total	10,009	9,446	9,869	9,289	5,900	5,625	3,360	3,084
Vacation	7,868	7,411	7,805	7,351	5,329	5,098	2,095	1,878
Illness	1,213	1,153	1,180	1,108	380	343	692	656
Bad weather	29	29	15	11	--	--	--	--
Industrial dispute	87	124	87	124	--	--	--	--
All other reasons	813	729	782	694	191	184	573	549
Male	5,303	5,127	5,175	4,978	3,621	3,494	1,233	1,163
Vacation	4,075	3,888	4,020	3,831	3,215	3,107	610	517
Illness	755	733	723	691	280	252	378	374
All other reasons	473	506	432	456	125	135	245	273
Female	4,706	4,319	4,694	4,312	2,281	2,132	2,127	1,922
Vacation	3,792	3,523	3,785	3,520	2,114	1,992	1,485	1,361
Illness	458	420	457	417	100	92	314	284
All other reasons	456	376	452	375	67	48	329	277

¹Excludes private household.²Pay 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

August 1970

Hours of work	Thousands of persons			Percent distribution		
	All industries	Nonagricultural industries	Agriculture	All industries	Nonagricultural industries	Agriculture
Total at work	69,885	66,243	3,642	100.0	100.0	100.0
1-34 hours	13,975	13,004	972	20.0	19.6	26.7
1-4 hours	640	593	48	.9	.9	1.3
5-14 hours	2,484	2,252	232	3.6	3.4	6.4
15-29 hours	6,629	6,146	483	9.5	9.3	13.3
30-34 hours	4,222	4,013	209	6.0	6.1	5.7
35 hours and over	55,910	53,241	2,669	80.0	80.4	73.3
35-39 hours	5,048	4,885	164	7.2	7.4	4.5
40 hours	30,347	29,897	450	43.4	45.1	12.4
41 hours and over	20,515	18,459	2,055	29.4	27.9	56.4
41 to 48 hours	8,503	8,198	304	12.2	12.4	8.3
49 to 59 hours	6,056	5,597	459	8.7	8.4	12.6
60 hours and over	5,956	4,664	1,292	8.5	7.0	35.5
Average hours, total at work	40.4	39.8	48.8	--	--	--
Average hours, workers on full-time schedules	43.8	43.2	57.1	--	--	--

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

August 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.....	13,975	5,272	8,703	13,004	4,954	8,049
Economic reasons.....	2,984	1,532	1,452	2,697	1,390	1,307
Slack work.....	1,358	1,054	304	1,193	931	262
Material shortages or repairs to plant and equipment.....	90	90	--	88	88	--
New job started during week.....	260	260	--	251	251	--
Job terminated during week.....	128	128	--	120	120	--
Could find only part-time work.....	1,148	--	1,148	1,045	--	1,045
Other reasons.....	10,992	3,741	7,251	10,306	3,564	6,742
Does not want, or unavailable for, full-time work.....	5,132	--	5,132	4,806	--	4,806
Vacation.....	1,087	1,087	--	1,053	1,053	--
Illness.....	1,294	1,066	228	1,201	1,034	167
Bad weather.....	270	270	--	205	205	--
Industrial dispute.....	50	50	--	50	50	--
Legal or religious holiday.....	123	123	--	122	122	--
Full time for this job.....	1,449	--	1,449	1,399	--	1,399
All other reasons.....	1,587	1,145	442	1,470	1,100	370
Average hours:						
Economic reasons.....	21.6	24.4	18.6	21.7	24.6	18.7
Other reasons.....	21.2	25.5	19.0	21.3	25.6	19.1
Worked 30 to 34 hours:						
Economic reasons.....	921	657	264	852	612	240
Other reasons.....	3,301	1,846	1,455	3,161	1,791	1,370

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

August 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 ¹	100.0	4.1	10.2	85.8	57.9	12.4	15.5	39.8	43.2
Wage and salary workers.....	100.0	4.1	9.7	86.3	60.5	12.4	13.4	39.4	42.5
Construction.....	100.0	6.4	3.5	90.0	63.4	13.2	13.4	39.8	41.8
Manufacturing.....	100.0	3.8	2.2	94.0	67.6	14.5	11.9	40.9	42.0
Durable goods.....	100.0	2.5	1.6	95.9	69.4	14.9	11.6	41.1	41.9
Nondurable goods.....	100.0	5.6	3.0	91.4	65.0	14.1	12.3	40.5	42.1
Transportation and public utilities.....	100.0	2.0	4.0	94.0	63.6	12.2	18.2	42.4	43.7
Wholesale and retail trade.....	100.0	5.2	18.1	76.7	45.2	15.1	16.4	38.3	43.7
Finance, insurance, and real estate.....	100.0	1.4	9.2	89.4	67.4	9.3	12.7	39.3	41.5
Service industries.....	100.0	5.1	18.3	76.6	56.2	8.9	11.5	36.5	42.2
Private households.....	100.0	16.5	43.6	39.9	25.4	5.7	8.8	26.1	44.3
All other service.....	100.0	3.6	15.0	81.4	60.2	9.3	11.9	37.9	42.1
Public administration.....	100.0	1.2	3.9	94.8	75.4	7.7	11.7	40.9	41.9
Self-employed workers.....	100.0	4.0	13.6	82.4	28.4	12.9	41.1	45.6	51.5
Unpaid family workers.....	100.0	1.5	36.5	62.0	30.2	6.5	25.3	39.0	49.3

¹ 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

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)								
TOTAL								
Total, 16 years and over.....	66,243	2,697	6,742	56,804	38,345	18,459	39.8	43.2
16 to 21 years.....	10,293	992	1,998	7,303	5,608	1,695	35.0	41.3
16 to 19 years.....	6,684	826	1,675	4,183	3,174	1,009	33.1	41.3
16 and 17 years.....	2,899	464	1,126	1,309	984	325	28.6	41.2
18 and 19 years.....	3,785	363	549	2,873	2,189	684	36.5	41.3
20 years and over.....	59,559	1,871	5,068	52,620	35,170	17,450	40.6	43.3
20 to 24 years.....	8,910	378	697	7,835	5,824	2,011	39.2	41.8
25 years and over.....	50,650	1,493	4,371	44,786	29,348	15,438	40.8	43.6
25 to 44 years.....	26,381	765	1,752	23,864	15,400	8,464	41.4	43.7
45 to 64 years.....	22,035	651	1,729	19,655	13,167	6,488	40.9	43.3
65 years and over.....	2,234	77	890	1,267	779	488	33.2	45.5
Males, 16 years and over.....	42,068	1,433	2,112	38,523	23,347	15,176	42.4	44.4
16 to 21 years.....	5,463	544	904	4,015	2,821	1,194	36.3	42.3
16 to 19 years.....	3,653	456	798	2,399	1,683	716	34.4	42.1
16 and 17 years.....	1,626	267	558	801	570	231	30.1	41.8
18 and 19 years.....	2,027	189	240	1,598	1,112	486	37.8	42.2
20 years and over.....	38,415	977	1,314	36,124	21,665	14,459	43.2	44.6
20 to 24 years.....	4,983	220	236	4,527	2,981	1,546	41.2	43.2
25 years and over.....	33,432	758	1,078	31,596	18,682	12,914	43.4	44.7
25 to 44 years.....	18,016	412	231	17,373	10,011	7,362	44.3	45.0
45 to 64 years.....	13,955	305	318	13,332	8,123	5,209	43.3	44.3
65 years and over.....	1,461	40	529	892	550	342	34.2	45.1
Females, 16 years and over.....	24,175	1,264	4,630	18,281	14,998	3,283	35.4	40.5
16 to 21 years.....	4,829	447	1,093	3,289	2,788	501	33.4	40.1
16 to 19 years.....	3,031	370	877	1,784	1,492	292	31.5	40.2
16 and 17 years.....	1,272	195	568	509	414	95	26.7	40.2
18 and 19 years.....	1,758	174	309	1,275	1,077	198	34.9	40.2
20 years and over.....	21,144	894	3,754	16,496	13,506	2,990	35.9	40.5
20 to 24 years.....	3,927	157	462	3,308	2,843	465	36.7	39.8
25 years and over.....	17,217	737	3,292	13,188	10,662	2,526	35.8	40.7
25 to 44 years.....	8,366	354	1,522	6,490	5,391	1,099	35.3	39.9
45 to 64 years.....	8,080	347	1,410	6,323	5,046	1,277	36.7	41.1
65 years and over.....	772	37	361	374	226	148	31.2	46.5
COLOR								
White.....	58,945	2,185	6,050	50,710	33,476	17,234	40.1	43.4
Male.....	37,797	1,187	1,885	34,725	20,476	14,249	42.7	44.7
Female.....	21,148	999	4,165	15,984	12,999	2,985	35.4	40.6
Negro and other races.....	7,298	512	692	6,094	4,870	1,224	37.8	41.3
Male.....	4,271	247	227	3,797	2,870	927	39.8	42.1
Female.....	3,028	266	465	2,297	1,999	298	35.1	39.9
MARITAL STATUS								
Male:								
Married, wife present.....	31,590	701	865	30,024	17,434	12,590	43.7	44.9
Widowed, divorced, or separated.....	2,271	88	153	2,030	1,309	721	41.1	43.6
Single (never married).....	8,207	644	1,094	6,469	4,605	1,864	37.8	42.5
Female:								
Married, husband present.....	13,275	536	2,864	9,875	8,141	1,734	35.0	40.3
Widowed, divorced, or separated.....	4,562	246	623	3,693	2,825	868	37.4	41.6
Single (never married).....	6,339	482	1,144	4,713	4,032	681	34.7	40.0

A-25: Persons at work in nonagricultural industries by full- or part-time status, sex, age, color, and marital status--Continued
August 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)						
TOTAL						
Total, 16 years and over.....	100.0	4.1	10.2	85.8	57.9	27.9
16 to 21 years.....	100.0	9.6	19.4	71.0	54.5	16.5
16 to 19 years.....	100.0	12.4	25.1	62.6	47.5	15.1
16 and 17 years.....	100.0	16.0	38.8	45.1	33.9	11.2
18 and 19 years.....	100.0	9.6	14.5	75.9	57.8	18.1
20 years and over.....	100.0	3.1	8.5	88.4	59.1	29.3
20 to 24 years.....	100.0	4.2	7.8	88.0	65.4	22.6
25 years and over.....	100.0	2.9	8.6	88.4	57.9	30.5
25 to 44 years.....	100.0	2.9	6.6	90.5	58.4	32.1
45 to 64 years.....	100.0	3.0	7.8	89.2	59.8	29.4
65 years and over.....	100.0	3.4	39.8	56.7	34.9	21.8
Males, 16 years and over.....	100.0	3.4	5.0	91.6	55.5	36.1
16 to 21 years.....	100.0	10.0	16.5	73.5	51.6	21.9
16 to 19 years.....	100.0	12.5	21.8	65.7	46.1	19.6
16 and 17 years.....	100.0	16.4	34.3	49.3	35.1	14.2
18 and 19 years.....	100.0	9.3	11.8	78.9	54.9	24.0
20 years and over.....	100.0	2.5	3.4	94.0	56.4	37.6
20 to 24 years.....	100.0	4.4	4.7	90.8	59.8	31.0
25 years and over.....	100.0	2.3	3.2	94.5	55.9	38.6
25 to 44 years.....	100.0	2.3	1.3	96.5	55.6	40.9
45 to 64 years.....	100.0	2.3	2.2	95.5	58.2	37.3
65 years and over.....	100.0	2.7	36.2	61.0	37.6	23.4
Females, 16 years and over.....	100.0	5.2	19.2	75.6	62.0	13.6
16 to 21 years.....	100.0	9.3	22.6	68.1	57.7	10.4
16 to 19 years.....	100.0	12.2	28.9	58.8	49.2	9.6
16 and 17 years.....	100.0	15.3	44.7	40.0	32.5	7.5
18 and 19 years.....	100.0	9.9	17.6	72.5	61.3	11.3
20 years and over.....	100.0	4.2	17.8	78.0	63.9	14.1
20 to 24 years.....	100.0	4.0	11.8	84.2	72.4	11.8
25 years and over.....	100.0	4.3	19.1	76.6	61.9	14.7
25 to 44 years.....	100.0	4.2	18.2	77.5	64.4	13.1
45 to 64 years.....	100.0	4.3	17.5	78.3	62.5	15.8
65 years and over.....	100.0	4.8	46.8	48.5	29.3	19.2
COLOR						
White.....	100.0	3.7	10.3	86.0	56.8	29.2
Male.....	100.0	3.1	5.0	91.9	54.2	37.7
Female.....	100.0	4.7	19.7	75.6	61.5	14.1
Negro and other races.....	100.0	7.0	9.5	83.5	66.7	16.8
Male.....	100.0	5.8	5.3	88.9	67.2	21.7
Female.....	100.0	8.8	15.4	75.8	66.0	9.8
MARITAL STATUS						
Male:						
Married, wife present.....	100.0	2.2	2.7	95.1	55.2	39.9
Widowed, divorced, or separated.....	100.0	3.9	6.7	89.3	57.6	31.7
Single (never married).....	100.0	7.8	13.3	78.8	56.1	22.7
Female:						
Married, husband present.....	100.0	4.0	21.6	74.4	61.3	13.1
Widowed, divorced, or separated.....	100.0	5.4	13.7	80.9	61.9	19.0
Single (never married).....	100.0	7.6	18.0	74.3	63.6	10.7

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

August 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)									
TOTAL									
White-collar workers.....	31,612	606	3,437	27,569	18,362	3,442	5,765	40.5	43.5
Professional and technical.....	7,616	106	710	6,800	4,605	764	1,431	40.5	43.2
Managers, officials, and proprietors.....	7,496	59	298	7,139	3,045	1,158	2,936	47.3	48.7
Clerical workers.....	12,082	270	1,496	10,316	8,748	1,019	549	37.1	40.0
Sales workers.....	4,418	171	933	3,314	1,965	501	848	38.0	44.2
Blue-collar workers.....	26,265	1,492	1,265	23,508	16,005	3,902	3,601	40.4	42.7
Craftsmen and foremen.....	9,444	286	282	8,876	5,782	1,599	1,495	41.7	43.0
Operatives.....	12,777	783	485	11,509	7,998	1,804	1,707	40.6	42.6
Nonfarm laborers.....	4,045	423	498	3,124	2,227	498	399	36.7	42.0
Service workers.....	8,708	616	2,086	6,006	4,115	900	991	35.7	43.4
Private household.....	1,326	186	593	547	358	74	115	26.6	43.6
Other service workers.....	7,382	431	1,493	5,458	3,756	826	876	37.4	43.4
MALE									
White-collar workers.....	17,405	226	811	16,368	8,958	2,474	4,936	44.3	45.8
Professional and technical.....	5,439	62	254	5,123	3,205	638	1,280	42.8	44.4
Managers, officials, and proprietors.....	6,260	49	169	6,042	2,430	1,019	2,593	48.0	49.0
Clerical workers.....	3,137	51	172	2,914	2,158	427	329	40.4	41.9
Sales workers.....	2,570	64	217	2,289	1,165	391	733	42.9	45.7
Blue-collar workers.....	21,901	1,068	937	19,896	12,937	3,509	3,450	41.1	43.2
Craftsmen and foremen.....	9,109	270	229	8,610	5,575	1,562	1,473	41.8	43.1
Operatives.....	8,884	389	240	8,255	5,207	1,466	1,582	42.3	43.8
Nonfarm laborers.....	3,907	409	469	3,029	2,154	480	395	36.9	42.0
Service workers.....	3,033	156	383	2,494	1,562	381	551	40.6	45.0
Private household.....	43	7	12	24	18	1	5	30.7	42.2
Other service workers.....	2,991	149	372	2,470	1,543	381	546	40.7	45.0
FEMALE									
White-collar workers.....	14,207	380	2,625	11,202	9,405	968	829	35.8	40.2
Professional and technical.....	2,177	44	456	1,677	1,400	127	150	34.5	39.8
Managers, officials, and proprietors.....	1,236	11	129	1,096	613	139	344	43.9	47.1
Clerical workers.....	8,945	219	1,324	7,402	6,589	593	220	36.0	39.2
Sales workers.....	1,848	107	717	1,024	798	110	116	31.2	40.7
Blue-collar workers.....	4,364	424	328	3,612	3,069	393	150	36.8	39.7
Craftsmen and foremen.....	335	16	54	265	206	37	22	36.7	40.9
Operatives.....	3,892	395	246	3,251	2,787	338	126	36.9	39.6
Nonfarm laborers.....	138	15	29	94	73	18	3	33.4	40.3
Service workers.....	5,675	460	1,703	3,512	2,553	519	440	33.1	42.2
Private household.....	1,283	179	581	523	340	74	109	26.5	43.7
Other service workers.....	4,392	282	1,121	2,989	2,214	445	330	35.1	42.0

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

August 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)							
TOTAL							
White-collar workers	100.0	1.9	10.9	87.2	58.1	10.9	18.2
Professional and technical	100.0	1.4	9.3	89.3	60.5	10.0	18.8
Managers, officials, and proprietors	100.0	.8	4.0	95.2	40.6	15.4	39.2
Clerical workers	100.0	2.2	12.4	85.3	72.4	8.4	4.5
Sales workers	100.0	3.9	21.1	75.0	44.5	11.3	19.2
Blue-collar workers	100.0	5.7	4.8	89.5	60.9	14.9	13.7
Craftsmen and foremen	100.0	3.0	3.0	93.9	61.2	16.9	15.8
Operatives	100.0	6.1	3.8	90.1	62.6	14.1	13.4
Nonfarm laborers	100.0	10.5	12.3	77.3	55.1	12.3	9.9
Service workers	100.0	7.1	24.0	69.0	47.3	10.3	11.4
Private household	100.0	14.0	44.7	41.3	27.0	5.6	8.7
Other service workers	100.0	5.8	20.2	74.0	50.9	11.2	11.9
MALE							
White-collar workers	100.0	1.3	4.7	94.1	51.5	14.2	28.4
Professional and technical	100.0	1.1	4.7	94.1	58.9	11.7	23.5
Managers, officials, and proprietors	100.0	.8	2.7	96.5	38.8	16.3	41.4
Clerical workers	100.0	1.6	5.5	92.9	68.8	13.6	10.5
Sales workers	100.0	2.5	8.4	89.0	45.3	15.2	28.5
Blue-collar workers	100.0	4.9	4.3	90.9	59.1	16.0	15.8
Craftsmen and foremen	100.0	3.0	2.5	94.5	61.2	17.1	16.2
Operatives	100.0	4.4	2.7	92.9	58.6	16.5	17.8
Nonfarm laborers	100.0	10.5	12.0	77.5	55.1	12.3	10.1
Service workers	100.0	5.1	12.6	82.3	51.5	12.6	18.2
Private household	100.0	16.3	27.9	55.8	41.9	2.3	11.6
Other service workers	100.0	5.0	12.4	82.6	51.6	12.7	18.3
FEMALE							
White-collar workers	100.0	2.7	18.5	78.8	66.2	6.8	5.8
Professional and technical	100.0	2.0	20.9	77.0	64.3	5.8	6.9
Managers, officials, and proprietors	100.0	.9	10.4	88.6	49.6	11.2	27.8
Clerical workers	100.0	2.4	14.8	82.8	73.7	6.6	2.5
Sales workers	100.0	5.8	38.8	55.5	43.2	6.0	6.3
Blue-collar workers	100.0	9.7	7.5	82.9	70.3	9.0	3.4
Craftsmen and foremen	100.0	4.8	16.1	79.1	61.5	11.0	6.6
Operatives	100.0	10.1	6.3	83.5	71.6	8.7	3.2
Nonfarm laborers	100.0	10.9	21.0	68.1	52.9	13.0	2.2
Service workers	100.0	8.1	30.0	61.9	45.0	9.1	7.8
Private household	100.0	14.0	45.3	40.8	26.5	5.8	8.5
Other service workers	100.0	6.4	25.6	68.0	50.4	10.1	7.5

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

August 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.....	7,998	4,055	3,943	6,865	3,492	3,373	1,133	563	570
Civilian labor force.....	2,123	1,332	791	1,818	1,141	677	305	191	114
Employed.....	1,933	1,191	742	1,690	1,038	652	243	152	91
Agriculture.....	375	298	77	319	261	58	56	37	19
Nonagricultural industries.....	1,558	893	665	1,371	777	594	187	116	71
Unemployed.....	190	141	49	128	102	25	62	39	24
Not in labor force.....	5,875	2,723	3,152	5,047	2,351	2,696	828	372	455
Keeping house.....	382	18	364	327	15	312	55	3	52
Going to school.....	294	168	126	204	110	94	90	58	32
Unable to work.....	11	6	5	9	5	4	2	1	1
All other reasons.....	5,189	2,531	2,658	4,508	2,221	2,287	681	310	371

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

August 1970

Characteristics	Thousands of persons			Percent distribution		
	Both sexes	Male	Female	Both sexes	Male	Female
CLASS OF WORKER						
Total.....	1,933	1,191	742	100.0	100.0	100.0
Nonagricultural industries.....	1,558	893	665	80.6	75.0	89.5
Wage and salary workers.....	1,414	766	647	73.2	64.4	87.1
Private household workers.....	606	182	424	31.4	15.3	57.0
Government workers.....	113	67	46	5.8	5.6	6.2
Other wage and salary workers.....	695	517	178	36.0	43.5	23.9
Self-employed workers.....	102	88	13	5.3	7.4	1.7
Unpaid family workers.....	42	38	5	2.2	3.2	.7
Agriculture.....	375	298	77	19.4	25.0	10.5
Wage and salary workers.....	237	179	58	12.3	15.1	7.8
Self-employed workers.....	15	14	1	.8	1.2	.1
Unpaid family workers.....	123	104	19	6.4	8.7	2.6
OCCUPATION						
Total.....	1,933	1,191	742	100.0	100.0	100.0
White-collar workers.....	330	238	92	17.1	20.0	12.4
Professional and technical.....	21	9	12	1.1	.8	1.6
Managers, officials, and proprietors.....	3	1	2	.2	.1	.3
Clerical workers.....	82	38	43	4.2	3.2	5.8
Sales workers.....	225	190	35	11.6	16.0	4.7
Blue-collar workers.....	522	486	37	27.0	40.8	4.9
Craftsmen and foremen.....	34	31	2	1.8	2.6	.3
Operatives.....	102	82	20	5.3	6.9	2.7
Nonfarm laborers.....	387	373	14	20.0	31.3	1.9
Service workers.....	732	194	538	37.9	16.2	72.7
Private household workers.....	431	15	416	22.3	1.3	56.1
Other service workers.....	301	178	123	15.6	15.0	16.6
Farm workers.....	348	273	75	18.0	22.9	10.1
Farmers and farm managers.....	3	3	--	.2	.3	--
Farm laborers and foremen.....	345	270	75	17.8	22.7	10.1

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				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
Total													
Total labor force	85,810	85,967	85,304	85,783	86,143	86,087	85,590	85,599	85,023	84,872	85,051	84,868	84,517
Civilian labor force	82,676	82,813	82,125	82,555	82,872	82,769	82,249	82,213	81,583	81,379	81,523	81,325	80,987
Employed	78,445	78,638	78,225	78,449	78,924	79,112	78,822	79,041	78,737	78,528	78,445	78,194	78,142
Agriculture	3,420	3,519	3,554	3,613	3,586	3,550	3,499	3,426	3,435	3,434	3,446	3,498	3,614
Nonagricultural industries	75,025	75,119	74,671	74,836	75,338	75,562	75,323	75,615	75,302	75,094	74,999	74,696	74,528
On part time for economic reasons	2,298	2,326	2,105	2,249	2,360	1,936	1,821	1,915	1,858	1,830	1,945	1,933	1,955
Usually work full time	1,329	1,240	1,126	1,253	1,400	1,093	1,044	1,036	1,046	1,005	1,017	1,046	1,040
Usually work part time	969	1,086	979	996	960	843	777	879	812	825	928	887	915
Unemployed	4,231	4,175	3,900	4,106	3,948	3,657	3,427	3,172	2,846	2,851	3,078	3,131	2,845
Men, 20 years and over													
Total labor force	49,905	50,024	49,906	50,020	50,032	49,920	49,707	49,736	49,534	49,544	49,642	49,642	49,488
Civilian labor force	47,178	47,294	47,154	47,226	47,199	47,060	46,836	46,826	46,578	46,531	46,599	46,586	46,443
Employed	45,424	45,524	45,521	45,593	45,667	45,709	45,534	45,674	45,553	45,533	45,511	45,465	45,485
Agriculture	2,523	2,593	2,603	2,625	2,602	2,537	2,479	2,473	2,499	2,482	2,575	2,593	2,670
Nonagricultural industries	42,901	42,931	42,918	42,968	43,065	43,172	43,055	43,201	43,054	43,051	42,936	42,872	42,815
Unemployed	1,754	1,770	1,633	1,633	1,532	1,351	1,302	1,152	1,025	998	1,088	1,121	958
Women, 20 years and over													
Civilian labor force	28,447	28,500	28,026	27,885	28,274	28,295	28,066	28,073	27,875	27,671	27,767	27,634	27,664
Employed	27,092	27,073	26,772	26,476	27,022	27,016	26,925	27,060	26,897	26,663	26,699	26,543	26,626
Agriculture	514	545	573	567	571	583	630	586	585	555	554	535	582
Nonagricultural industries	26,578	26,528	26,199	25,909	26,451	26,433	26,295	26,474	26,312	26,108	26,145	26,008	26,044
Unemployed	1,355	1,427	1,254	1,409	1,252	1,279	1,141	1,013	978	1,008	1,068	1,091	1,038
Both sexes, 16-19 years													
Civilian labor force	7,051	7,019	6,945	7,444	7,399	7,414	7,347	7,314	7,130	7,177	7,157	7,105	6,880
Employed	5,929	6,041	5,932	6,380	6,235	6,387	6,363	6,307	6,287	6,332	6,235	6,186	6,031
Agriculture	383	381	378	421	413	430	390	367	351	397	317	370	362
Nonagricultural industries	5,546	5,660	5,554	5,959	5,822	5,957	5,973	5,940	5,936	5,935	5,918	5,816	5,669
Unemployed	1,122	978	1,013	1,064	1,164	1,027	984	1,007	843	845	922	919	849

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.

Table 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				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
Full time													
Total, 16 years and over:													
Civilian labor force	71,086	71,132	70,653	71,116	70,810	70,557	70,407	70,623	70,269	70,184	70,190	70,308	70,052
Employed	67,778	67,855	67,585	67,742	67,720	67,707	67,781	68,235	68,017	68,039	68,010	67,993	67,915
Unemployed	3,308	3,277	3,068	3,374	3,090	2,850	2,626	2,388	2,252	2,145	2,180	2,315	2,137
Unemployment rate	4.7	4.6	4.3	4.7	4.4	4.0	3.7	3.4	3.2	3.1	3.1	3.3	3.1
Men, 20 years and over:													
Civilian labor force	44,896	45,042	44,966	45,061	44,898	44,715	44,536	44,604	44,486	44,420	44,447	44,482	44,303
Employed	43,339	43,403	43,476	43,554	43,487	43,460	43,348	43,561	43,506	43,515	43,539	43,524	43,485
Unemployed	1,557	1,639	1,490	1,507	1,411	1,255	1,188	1,043	980	905	908	958	818
Unemployment rate	3.5	3.6	3.3	3.3	3.1	2.8	2.7	2.3	2.2	2.0	2.0	2.2	1.8
Women, 20 years and over:													
Civilian labor force	22,439	22,295	22,050	21,937	22,054	21,982	21,965	22,146	21,813	21,852	21,862	21,878	21,971
Employed	21,309	21,211	21,046	20,736	21,042	20,982	21,087	21,332	21,089	21,096	21,059	21,036	21,116
Unemployed	1,130	1,084	1,004	1,201	1,012	1,000	878	814	724	756	803	842	855
Unemployment rate	5.0	4.9	4.6	5.5	4.6	4.5	4.0	3.7	3.3	3.5	3.7	3.8	3.9
Part time													
Total, 16 years and over:													
Civilian labor force	11,944	11,640	11,455	11,425	11,949	11,958	11,634	11,803	11,360	11,261	11,314	11,072	11,032
Employed	10,984	10,775	10,685	10,689	11,064	11,109	10,828	10,946	10,677	10,580	10,539	10,301	10,272
Unemployed	960	865	770	736	885	849	806	857	683	681	775	771	760
Unemployment rate	8.0	7.4	6.7	6.4	7.4	7.1	6.9	7.3	6.0	6.0	6.9	7.0	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				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
White													
Total:													
Civilian labor force	73,332	73,454	72,770	73,358	73,662	73,621	73,169	73,159	72,589	72,392	72,447	72,261	71,835
Employed	69,838	70,008	69,681	69,998	70,499	70,617	70,406	70,558	70,266	70,093	69,930	69,733	69,548
Unemployed	3,494	3,446	3,089	3,360	3,163	3,004	2,763	2,601	2,323	2,299	2,517	2,528	2,287
Unemployment rate	4.8	4.7	4.2	4.6	4.3	4.1	3.8	3.6	3.2	3.2	3.5	3.5	3.2
Males, 20 years and over:													
Civilian labor force	42,407	42,462	42,411	42,480	42,498	42,407	42,194	42,133	41,953	41,959	41,956	41,965	41,838
Employed	40,923	40,974	41,039	41,123	41,232	41,260	41,115	41,165	41,122	41,130	41,022	41,044	41,052
Unemployed	1,484	1,488	1,372	1,357	1,266	1,147	1,079	968	831	829	934	921	786
Unemployment rate	3.5	3.5	3.2	3.2	3.0	2.7	2.6	2.3	2.0	2.0	2.2	2.2	1.9
Females, 20 years and over:													
Civilian labor force	24,700	24,775	24,275	24,259	24,601	24,599	24,477	24,504	24,243	24,053	24,174	23,979	23,973
Employed	23,583	23,584	23,278	23,139	23,623	23,576	23,520	23,665	23,429	23,245	23,308	23,116	23,136
Unemployed	1,117	1,191	997	1,120	978	1,023	917	839	814	808	866	863	837
Unemployment rate	4.5	4.8	4.1	4.6	4.0	4.2	3.8	3.4	3.4	3.4	3.6	3.6	3.5
Both sexes, 16 to 19 years:													
Civilian labor force	6,225	6,217	6,084	6,619	6,563	6,615	6,538	6,522	6,393	6,380	6,317	6,317	6,024
Employed	5,332	5,450	5,364	5,736	5,644	5,781	5,771	5,728	5,715	5,718	5,600	5,573	5,360
Unemployed	893	767	720	883	919	834	767	794	678	662	717	744	664
Unemployment rate	14.3	12.3	11.8	13.3	14.0	12.6	11.7	12.2	10.6	10.4	11.4	11.8	11.0
Negro and other races													
Total:													
Civilian labor force	9,263	9,243	9,231	9,235	9,213	9,253	9,160	9,259	9,115	9,042	9,011	8,962	9,061
Employed	8,488	8,480	8,427	8,500	8,414	8,598	8,520	8,675	8,598	8,484	8,419	8,366	8,479
Unemployed	775	763	804	735	799	655	640	584	517	558	592	596	582
Unemployment rate	8.4	8.3	8.7	8.0	8.7	7.1	7.0	6.3	5.7	6.2	6.6	6.7	6.4
Males, 20 years and over:													
Civilian labor force	4,776	4,790	4,734	4,729	4,656	4,693	4,675	4,731	4,657	4,602	4,607	4,599	4,611
Employed	4,507	4,499	4,448	4,455	4,399	4,484	4,461	4,550	4,480	4,430	4,424	4,409	4,442
Unemployed	269	291	286	274	257	209	214	181	177	172	183	190	169
Unemployment rate	5.6	6.1	6.0	5.8	5.5	4.5	4.6	3.8	3.8	3.7	4.0	4.1	3.7
Females, 20 years and over:													
Civilian labor force	3,689	3,655	3,682	3,669	3,713	3,715	3,656	3,676	3,664	3,608	3,576	3,595	3,638
Employed	3,419	3,412	3,425	3,403	3,421	3,466	3,440	3,497	3,502	3,412	3,373	3,372	3,412
Unemployed	270	243	257	266	292	249	216	179	162	196	203	223	226
Unemployment rate	7.3	6.6	7.0	7.2	7.9	6.7	5.9	4.9	4.4	5.4	5.7	6.2	6.2
Both sexes, 16 to 19 years:													
Civilian labor force	798	798	815	837	844	845	829	852	794	832	828	768	812
Employed	562	569	554	642	594	648	619	628	616	642	622	585	625
Unemployed	236	229	261	195	250	197	210	224	178	190	206	183	187
Unemployment rate	29.6	28.7	32.0	23.3	29.6	23.3	25.3	26.3	22.4	22.8	24.9	23.8	23.0

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

(In thousands)

Duration of unemployment	1970								1969				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
Less than 5 weeks	2,206	2,061	1,961	2,219	2,295	1,995	1,973	1,756	1,515	1,558	1,882	1,756	1,646
5 to 14 weeks	1,320	1,334	1,303	1,214	1,075	1,154	1,016	914	893	912	882	995	854
15 weeks and over	736	711	685	612	569	545	465	409	392	389	363	392	385
15 to 26 weeks	479	470	450	352	372	363	306	276	272	249	233	240	250
27 weeks and over	257	241	235	260	197	182	159	133	120	140	130	152	135
Average (mean) duration	8.8	9.3	9.5	9.0	8.2	8.4	8.1	7.8	8.1	8.0	7.3	7.9	7.8

HOUSEHOLD DATA
SEASONALLY ADJUSTED

A-33: Major unemployment indicators, seasonally adjusted

(Unemployment rates)

Selected categories	1970								1969				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
Total (all civilian workers)	5.1	5.0	4.7	5.0	4.8	4.4	4.2	3.9	3.5	3.5	3.8	3.8	3.5
Men, 20 years and over	3.7	3.7	3.5	3.5	3.2	2.9	2.8	2.5	2.2	2.1	2.3	2.4	2.1
Women, 20 years and over	4.8	5.0	4.5	5.1	4.4	4.5	4.1	3.6	3.5	3.6	3.8	3.9	3.8
Both sexes, 16-19 years	15.9	13.9	14.6	14.3	15.7	13.9	13.4	13.8	11.8	11.8	12.9	12.9	12.3
White	4.8	4.7	4.2	4.6	4.3	4.1	3.8	3.6	3.2	3.2	3.5	3.5	3.2
Negro and other races	8.4	8.3	8.7	8.0	8.7	7.1	7.0	6.3	5.7	6.2	6.6	6.7	6.4
Married men	2.8	2.7	2.5	2.6	2.4	2.2	2.0	1.8	1.7	1.5	1.6	1.7	1.5
Full-time workers	4.7	4.6	4.3	4.7	4.4	4.0	3.7	3.4	3.2	3.1	3.1	3.3	3.1
Part-time workers	8.0	7.4	6.7	6.4	7.4	7.1	6.9	7.3	6.0	6.0	6.9	7.0	6.9
Unemployed 15 weeks and over ¹ . . . . .	.9	.9	.8	.7	.7	.7	.6	.5	.5	.5	.4	.5	.5
State insured ²	3.7	3.5	3.7	3.6	3.1	2.7	2.7	2.5	2.4	2.3	2.2	2.2	2.1
Labor force time lost ³	5.5	5.4	4.9	5.4	5.1	4.8	4.5	4.2	3.9	4.0	4.3	4.3	4.0
Occupation													
White-collar workers	2.7	3.1	2.6	2.8	2.9	2.7	2.3	2.1	2.1	2.1	2.4	2.2	2.2
Professional and technical	1.9	2.2	1.5	2.1	2.1	2.3	1.7	1.5	1.8	1.2	1.6	1.4	1.3
Managers, officials, and proprietors	1.3	1.7	1.5	1.1	1.2	1.2	1.0	.9	1.0	.9	.9	1.0	1.0
Clerical workers	3.9	4.4	4.0	3.9	4.0	3.6	3.2	3.1	2.8	3.5	3.4	3.2	3.2
Sales workers	4.0	4.0	3.4	4.4	4.1	3.5	3.4	2.8	2.6	2.2	3.5	2.8	2.9
Blue-collar workers	7.0	6.6	6.3	6.2	5.7	5.2	5.0	4.6	4.3	4.2	4.2	4.4	3.8
Craftsmen and foremen	4.4	4.4	4.0	4.2	3.5	3.1	2.5	2.3	2.3	2.1	2.4	2.6	2.1
Operatives	7.9	7.2	6.8	6.7	6.3	6.2	6.0	5.1	5.0	4.9	4.9	4.7	4.2
Nonfarm laborers	10.2	9.9	10.4	9.1	8.8	7.4	7.7	8.5	7.4	6.9	6.5	7.6	6.8
Service workers	5.5	5.3	5.0	4.9	5.0	4.9	4.8	4.5	3.6	4.0	4.2	4.8	4.5
Farm workers	2.8	2.7	2.0	3.5	2.1	2.3	1.9	2.1	2.1	1.4	1.8	1.9	1.9
Industry													
Private wage and salary workers ⁴	5.5	5.6	5.2	5.2	4.8	4.6	4.3	3.9	3.6	3.6	3.8	3.9	3.5
Construction	12.2	11.0	10.9	11.9	8.1	8.1	7.9	7.1	6.0	5.4	7.3	7.4	7.0
Manufacturing	5.7	6.0	5.3	5.2	4.7	4.7	4.6	3.8	3.8	3.7	3.6	3.7	2.9
Durable goods	5.5	5.9	5.1	4.9	4.9	4.8	4.7	3.8	3.7	3.6	3.2	3.2	2.3
Nondurable goods	5.9	6.2	5.6	5.7	4.5	4.6	4.4	3.8	3.9	3.9	4.2	4.3	3.7
Transportation and public utilities	3.1	3.3	3.3	3.3	3.9	3.1	2.4	2.9	2.4	2.4	2.9	2.0	2.0
Wholesale and retail trade	5.4	5.3	5.4	5.1	5.5	4.7	4.7	4.3	3.9	3.9	4.2	4.5	4.3
Finance and service industries	4.4	4.8	4.1	4.2	3.9	4.0	3.2	3.1	2.7	3.2	3.1	3.4	3.4
Government wage and salary workers	2.1	2.0	1.9	2.2	2.2	2.1	2.0	2.2	2.0	2.1	2.4	1.9	1.9
Agricultural wage and salary workers	8.2	8.6	5.5	9.3	5.9	6.4	5.8	6.2	6.5	5.2	6.3	6.5	6.5

¹Unemployment rate calculated as a percent of civilian labor force.

²Insured unemployment under State programs as a percent of average covered employment.

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

⁴Includes mining, not shown separately.

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

Sex and age	1970								1969				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
Total, 16 years and over	5.1	5.0	4.7	5.0	4.8	4.4	4.2	3.9	3.5	3.5	3.8	3.8	3.5
16 to 19 years	15.9	13.9	14.6	14.3	15.7	13.9	13.4	13.8	11.8	11.8	12.9	12.9	12.3
16 and 17 years	17.4	15.2	16.0	15.6	18.7	15.7	16.3	17.2	13.7	14.3	16.5	16.1	15.8
18 and 19 years	14.7	13.2	13.3	13.8	13.8	12.4	11.7	11.6	10.2	9.2	10.4	10.6	9.8
20 to 24 years	8.3	8.6	7.4	8.1	7.7	6.8	7.3	6.1	5.8	5.8	6.4	6.5	5.4
25 years and over	3.4	3.5	3.2	3.3	3.1	3.0	2.6	2.4	2.2	2.2	2.4	2.4	2.3
25 to 54 years	3.6	3.7	3.3	3.4	3.2	3.1	2.7	2.5	2.3	2.1	2.4	2.5	2.3
55 years and over	2.7	2.9	3.0	3.3	2.8	2.7	2.4	2.0	2.1	1.9	2.3	2.2	2.0
Males, 16 years and over	4.6	4.5	4.3	4.4	4.2	3.6	3.6	3.3	2.9	2.9	3.1	3.2	2.8
16 to 19 years	15.8	14.1	14.8	15.0	15.2	12.5	13.0	12.6	11.0	11.7	11.8	12.0	11.3
16 and 17 years	17.2	15.2	16.6	16.4	17.2	14.6	15.4	14.9	13.1	13.7	14.4	15.0	15.5
18 and 19 years	14.6	13.6	13.2	14.6	13.9	10.8	11.0	10.8	9.3	8.9	9.6	9.4	7.8
20 to 24 years	8.5	9.1	7.2	7.7	7.9	6.4	6.9	6.1	5.5	5.3	6.3	6.4	4.5
25 years and over	3.0	3.0	2.9	2.9	2.6	2.4	2.2	2.0	1.8	1.7	1.9	1.8	1.7
25 to 54 years	3.0	3.0	2.9	2.8	2.6	2.3	2.1	2.0	1.7	1.4	1.8	1.8	1.6
55 years and over	2.9	2.8	2.8	3.1	2.8	2.8	2.4	2.1	2.2	1.9	2.2	2.0	2.0
Females, 16 years and over	5.9	5.9	5.5	5.9	5.7	5.7	5.1	4.8	4.5	4.5	4.9	5.0	4.8
16 to 19 years	16.0	13.7	14.3	13.4	16.4	15.6	13.9	15.2	12.8	11.9	14.2	14.2	13.6
16 and 17 years	17.6	15.1	15.3	14.6	20.6	17.0	17.3	20.3	14.7	15.0	19.2	17.7	16.2
18 and 19 years	14.9	12.7	13.4	12.9	13.7	14.3	12.7	12.4	11.2	9.6	11.3	12.0	12.0
20 to 24 years	8.0	8.1	7.7	8.7	7.5	7.2	7.6	6.2	6.1	6.5	6.5	6.6	6.3
25 years and over	4.1	4.5	3.8	4.2	3.8	4.0	3.3	3.0	3.0	3.1	3.4	3.4	3.3
25 to 54 years	4.6	4.8	4.1	4.3	4.2	4.4	3.6	3.3	3.3	3.4	3.6	3.7	3.6
55 years and over	2.5	3.1	3.2	3.6	2.7	2.5	2.3	1.7	1.9	2.0	2.5	2.5	2.1

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

(Numbers in thousands)

Reason for unemployment	1970								1969				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
Number of unemployed													
Lost last job	1,946	1,833	1,928	1,912	1,613	1,503	1,390	1,202	1,170	1,033	1,010	993	981
Left last job	570	600	569	550	573	466	473	460	455	426	411	483	452
Reentered labor force	1,296	1,284	1,036	1,168	1,207	1,225	1,089	1,106	916	999	1,079	1,079	1,041
Never worked before	495	439	468	464	550	479	477	509	358	358	462	495	411
Percent distribution													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Lost last job	45.2	44.1	48.2	46.7	40.9	40.9	40.5	36.7	40.4	36.7	34.1	32.6	34.0
Left last job	13.2	14.4	14.2	13.4	14.5	12.7	13.8	14.0	15.7	15.1	13.9	15.8	15.7
Reentered labor force	30.1	30.9	25.9	28.5	30.6	33.4	31.8	33.8	31.6	35.5	36.4	35.4	36.1
Never worked before	11.5	10.6	11.7	11.3	13.9	13.0	13.9	15.5	12.3	12.7	15.6	16.2	14.2
Unemployed as a percent of the civilian labor force													
Lost last job	2.3	2.1	2.3	2.3	1.9	1.8	1.7	1.5	1.4	1.3	1.2	1.2	1.2
Left last job .....	.7	.8	.7	.7	.7	.6	.6	.6	.6	.5	.5	.6	.6
Reentered labor force	1.5	1.6	1.3	1.4	1.5	1.5	1.3	1.3	1.1	1.2	1.3	1.3	1.3
Never worked before .....	.6	.9	.6	.6	.7	.6	.6	.6	.5	.4	.6	.6	.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

(In thousands)

Sex and age	1970								1969				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
Total													
16 years and over	78,445	78,638	78,225	78,449	78,924	79,112	78,822	79,041	78,737	78,528	78,445	78,194	78,142
16 to 19 years	5,929	6,041	5,932	6,380	6,235	6,387	6,363	6,307	6,287	6,332	6,235	6,186	6,031
16 and 17 years	2,519	2,532	2,484	2,686	2,656	2,774	2,760	2,713	2,667	2,707	2,625	2,614	2,474
18 and 19 years	3,380	3,467	3,440	3,672	3,590	3,654	3,634	3,647	3,660	3,654	3,598	3,565	3,530
20 to 24 years	9,803	9,745	9,588	9,593	9,583	9,593	9,538	9,644	9,441	9,506	9,457	9,428	9,477
25 years and over	62,694	62,787	62,626	62,557	63,078	63,134	62,970	63,132	62,998	62,709	62,770	62,589	62,630
25 to 54 years	48,621	48,658	48,607	48,558	48,909	48,846	48,821	49,043	48,945	48,619	48,600	48,435	48,492
55 years and over	14,041	14,045	13,965	13,980	14,188	14,326	14,203	14,223	14,117	14,075	14,096	14,108	14,121
Male													
16 years and over	48,662	48,855	48,778	49,081	49,099	49,313	49,058	49,204	49,055	49,067	48,949	48,956	48,819
16 to 19 years	3,238	3,331	3,257	3,488	3,432	3,604	3,524	3,530	3,502	3,534	3,438	3,491	3,334
16 and 17 years	1,446	1,489	1,445	1,519	1,529	1,601	1,558	1,580	1,550	1,600	1,536	1,586	1,454
18 and 19 years	1,772	1,812	1,809	1,954	1,896	2,027	1,984	1,974	1,987	1,954	1,905	1,914	1,861
20 to 24 years	5,260	5,215	5,188	5,213	5,154	5,146	5,102	5,117	5,093	5,088	5,086	5,071	5,107
25 years and over	40,180	40,260	40,288	40,395	40,501	40,567	40,468	40,571	40,500	40,418	40,421	40,403	40,407
25 to 54 years	31,206	31,278	31,280	31,328	31,369	31,402	31,352	31,409	31,469	31,353	31,324	31,288	31,336
55 years and over	8,952	8,965	8,972	9,073	9,131	9,181	9,148	9,209	9,067	9,176	9,076	9,098	9,051
Female													
16 years and over	29,783	29,783	29,447	29,368	29,825	29,799	29,764	29,837	29,682	29,461	29,496	29,238	29,323
16 to 19 years	2,691	2,710	2,675	2,892	2,803	2,783	2,839	2,777	2,785	2,798	2,797	2,695	2,697
16 and 17 years	1,073	1,043	1,039	1,167	1,127	1,173	1,202	1,133	1,117	1,107	1,089	1,028	1,020
18 and 19 years	1,608	1,655	1,631	1,718	1,694	1,627	1,650	1,673	1,673	1,700	1,693	1,651	1,669
20 to 24 years	4,543	4,530	4,400	4,380	4,429	4,447	4,436	4,527	4,348	4,418	4,389	4,357	4,370
25 years and over	22,514	22,527	22,338	22,162	22,577	22,576	22,502	22,561	22,498	22,291	22,349	22,186	22,223
25 to 54 years	17,415	17,380	17,327	17,230	17,540	17,444	17,469	17,634	17,476	17,266	17,276	17,147	17,156
55 years and over	5,089	5,080	4,993	4,907	5,057	5,145	5,055	5,014	5,050	4,999	5,020	5,010	5,070

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

(In thousands)

Occupation group	1970								1969				
	Aug.	July	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
White-collar workers	37,852	38,019	38,049	37,889	38,006	37,936	37,927	37,950	37,641	37,483	37,406	37,047	36,917
Professional and technical	11,280	11,281	11,198	11,023	11,166	11,016	10,966	11,097	11,007	10,887	10,915	10,763	10,699
Managers, officials, and proprietors	8,224	8,300	8,285	8,378	8,206	8,268	8,186	8,190	8,164	8,222	8,037	8,022	7,958
Clerical workers	13,450	13,582	13,696	13,700	13,848	13,884	13,965	13,869	13,699	13,530	13,737	13,573	13,528
Sales workers	4,898	4,856	4,870	4,788	4,786	4,768	4,810	4,794	4,771	4,844	4,717	4,689	4,732
Blue-collar workers	27,685	27,677	27,441	27,621	29,927	28,192	28,274	28,241	28,323	28,432	28,412	28,520	28,429
Craftsmen and foremen	10,042	10,074	10,079	10,036	10,211	10,375	10,268	10,148	10,323	10,258	10,215	10,162	10,189
Operatives	13,851	13,867	13,790	13,863	14,021	14,018	14,204	14,281	14,268	14,433	14,535	14,676	14,560
Nonfarm laborers	3,792	3,736	3,572	3,722	3,695	3,799	3,802	3,812	3,732	3,741	3,662	3,682	3,680
Service workers	9,781	9,648	9,544	9,589	9,634	9,729	9,562	9,728	9,688	9,558	9,520	9,531	9,467
Farmers and farm laborers	3,057	3,180	3,226	3,266	3,210	3,214	3,160	3,084	3,037	3,087	3,143	3,199	3,258

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: August..	70,758	638	3,731	20,497	4,510	14,670	3,796	10,874	3,641	11,372	11,699	2,804	8,895
September	70,964	630	3,687	20,482	4,508	14,714	3,781	10,933	3,595	11,300	12,048	2,733	9,315
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 P..	70,689	635	3,573	19,333	4,593	14,930	3,902	11,028	3,738	11,722	12,165	2,700	9,465
August P.	70,724	638	3,573	19,553	4,578	14,888	3,883	11,005	3,729	11,690	12,075	2,667	9,408

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 ¹				
		Aug. 1970 P	July 1970 P	June 1970	Aug. 1969	July 1969	Aug. 1970 P	July 1970 P	June 1970	Aug. 1969	July 1969
-	TOTAL	70,724	70,689	71,385	70,758	70,481	-	-	-	-	-
-	PRIVATE SECTOR	58,649	58,524	58,746	59,059	58,688	48,491	48,350	48,582	48,953	48,613
-	MINING	638	635	635	638	635	488	483	485	489	485
10	METAL MINING	-	98.4	97.6	92.7	92.0	-	79.2	78.9	75.0	74.2
101	Iron ores	-	27.8	27.5	26.9	26.8	-	22.7	22.6	22.0	22.0
102	Copper ores	-	38.2	37.9	34.7	34.4	-	30.2	30.1	27.7	27.4
11,12	COAL MINING	-	143.2	144.5	136.6	134.3	-	123.9	125.4	118.4	115.7
12	Bituminous coal and lignite mining	-	137.6	138.9	131.0	128.7	-	118.8	120.4	113.4	110.7
13	OIL AND GAS EXTRACTION	-	271.8	272.4	286.4	287.1	-	179.5	181.1	194.6	194.9
131,2	Crude petroleum and natural gas fields	-	145.5	144.4	148.3	149.3	-	75.4	75.0	77.6	78.2
138	Oil and gas field services	-	126.3	128.0	138.1	137.8	-	104.1	106.1	117.0	116.7
14	NONMETALLIC MINERALS, EXCEPT FUELS	-	121.5	120.7	121.8	121.7	-	100.5	99.5	100.7	100.6
142	Crushed and broken stone	-	43.4	43.0	42.6	42.5	-	36.5	36.2	36.3	36.2
144	Sand and gravel	-	40.4	39.5	39.5	40.0	-	-	-	-	-
-	CONTRACT CONSTRUCTION	3,573	3,573	3,504	3,731	3,707	3,005	3,007	2,943	3,180	3,157
15	GENERAL BUILDING CONTRACTORS	-	1,036.1	1,018.0	1,137.9	1,136.3	-	872.6	854.8	974.4	976.5
16	HEAVY CONSTRUCTION CONTRACTORS	-	859.1	830.9	828.1	821.3	-	743.8	717.9	722.6	714.2
161	Highway and street construction	-	408.6	391.1	401.5	399.2	-	367.1	351.2	361.6	358.7
162	Heavy construction, n e c	-	450.5	439.8	426.6	422.1	-	376.7	366.7	361.0	355.5
17	SPECIAL TRADE CONTRACTORS	-	1,677.3	1,654.8	1,765.0	1,749.4	-	1,390.8	1,370.7	1,483.2	1,466.6
171	Plumbing, heating, air conditioning	-	393.7	390.1	410.4	404.6	-	314.5	311.2	331.3	325.6
172	Painting, paper hanging, decorating	-	141.9	138.4	150.0	151.4	-	125.4	121.9	134.5	135.7
173	Electrical work	-	290.8	286.4	293.2	293.0	-	232.8	228.4	237.3	237.5
174	Masonry, stonework, and plastering	-	219.0	215.2	247.5	246.0	-	197.2	193.7	225.1	222.9
176	Roofing and sheet metal work	-	120.7	118.1	127.3	124.0	-	99.7	97.3	106.2	102.9
-	MANUFACTURING	19,553	19,333	19,627	20,497	20,164	14,211	13,973	14,261	15,014	14,700
19,24,25, 32-39	DURABLE GOODS	11,181	11,156	11,392	11,992	11,889	8,034	7,999	8,228	8,701	8,612
20-23, 26-31	NONDURABLE GOODS	8,372	8,177	8,235	8,505	8,275	6,177	5,974	6,033	6,313	6,088
	<i>Durable Goods</i>										
19	ORDNANCE AND ACCESSORIES	238.3	243.7	249.9	313.9	322.1	129.4	131.5	136.4	179.4	185.5
192	Ammunition, except for small arms	166.9	170.2	175.0	228.6	233.3	84.5	86.1	89.1	125.9	128.9
1925	Complete guided missiles	-	99.1	101.9	122.0	124.0	-	30.3	31.7	39.2	40.0
1929	Ammunition, exc. for small arms, nec	-	71.1	73.1	106.6	109.3	-	55.8	57.4	86.7	88.9
24	LUMBER AND WOOD PRODUCTS	590.0	587.4	596.4	629.3	627.5	509.6	506.6	515.6	547.6	545.7
241	Logging camps & logging contractors	81.0	80.0	81.8	90.0	89.4	-	-	-	-	-
242	Sawmills and planing mills	216.2	217.5	220.4	235.5	234.0	197.2	197.9	201.0	214.4	213.1
2421	Sawmills and planing mills, general	-	185.0	186.8	198.2	197.9	-	168.7	170.7	180.8	180.5
243	Millwork, plywood & related products	169.9	167.8	168.5	174.7	176.0	141.4	139.6	140.2	146.8	148.1
2431	Millwork	-	73.5	73.9	75.6	76.0	-	59.1	59.7	61.6	61.9
2432	Veneer and plywood	-	71.9	71.8	75.5	75.9	-	64.2	64.1	68.2	68.7
244	Wooden containers	(*)	34.2	35.3	36.8	37.7	(*)	30.4	31.5	33.1	34.0
2441,2	Wooden boxes, shooks, and crates	-	28.2	28.7	29.9	30.6	-	25.2	25.7	26.9	27.6
249	Miscellaneous wood products	90.8	87.9	90.4	92.3	90.4	75.7	72.8	75.4	77.9	75.7

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 ¹				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
<i>Durable Goods--Continued</i>											
25	FURNITURE AND FIXTURES	459.1	444.9	454.1	488.4	476.2	378.4	364.9	373.2	406.7	394.1
251	Household furniture	(*)	306.5	314.4	341.5	333.7	(*)	257.8	264.8	292.1	284.2
2511	Wood household furniture	—	152.3	156.5	176.6	171.4	—	133.2	136.9	156.9	151.8
2512	Upholstered household furniture	—	81.7	82.1	90.0	87.0	—	67.1	67.6	75.4	72.4
2515	Mattresses and bedsprings	—	37.2	37.2	39.9	39.3	—	28.9	28.8	31.5	30.8
252	Office furniture	—	36.2	37.3	40.0	37.7	—	27.9	28.9	31.7	29.6
254	Partitions and fixtures	—	52.5	52.1	52.4	50.9	—	40.9	40.9	40.7	39.0
253,9	Other furniture and fixtures	49.3	49.7	50.3	54.5	53.9	38.1	38.3	38.6	42.2	41.3
32	STONE, CLAY, AND GLASS PRODUCTS	643.8	644.4	650.0	674.0	670.9	513.3	514.1	518.3	541.8	537.8
321	Flat glass	—	23.0	23.4	26.4	25.6	—	16.7	17.0	19.6	19.0
322	Glass and glassware, pressed or blown	133.3	132.4	133.6	131.8	130.6	115.9	115.4	116.5	116.3	114.8
3221	Glass containers	—	78.6	78.5	74.4	74.7	—	70.4	70.2	67.2	67.7
3229	Pressed and blown glass, n e c	—	53.8	55.1	57.4	55.9	—	45.0	46.3	49.1	47.1
324	Cement, hydraulic	34.8	35.6	35.5	35.4	35.6	27.1	27.7	27.7	27.1	27.1
325	Structural clay products	59.1	59.4	59.7	65.3	65.6	48.3	48.5	48.9	53.9	54.3
3251	Brick and structural clay tile	—	26.4	26.4	29.4	29.6	—	22.9	23.0	25.7	26.1
326	Pottery and related products	—	40.9	43.4	45.2	44.6	—	33.7	36.0	38.2	37.6
327	Concrete, gypsum, and plaster products	187.6	190.0	188.9	197.9	196.8	147.5	148.6	147.9	156.4	154.7
328,9	Other stone and nonmetallic mineral products	(*)	136.1	138.0	143.5	144.3	(*)	102.3	102.8	107.7	108.4
3291	Abrasive products	—	26.6	26.8	27.9	27.9	—	18.3	18.5	19.4	19.4
33	PRIMARY METAL INDUSTRIES	1,320.2	1,316.9	1,331.6	1,375.5	1,374.3	1,050.1	1,044.7	1,058.5	1,096.5	1,097.3
331	Blast furnace and basic steel products	(*)	643.7	644.1	662.0	666.2	(*)	513.7	514.3	528.7	533.4
3312	Blast furnaces and steel mills	—	563.7	563.5	578.6	582.2	—	451.9	452.0	464.4	468.6
332	Iron and steel foundries	(*)	222.3	229.3	229.2	227.9	(*)	184.2	191.2	191.5	190.3
3321	Gray iron foundries	—	137.2	143.9	141.9	141.0	—	115.5	122.3	120.5	119.5
3322	Malleable iron foundries	—	21.0	21.7	23.9	23.5	—	17.3	17.8	20.0	19.6
3323	Steel foundries	—	64.1	63.7	63.4	63.4	—	51.4	51.1	51.0	51.2
333,4	Nonferrous metals	88.6	89.2	87.5	88.3	88.2	68.5	69.0	67.4	68.0	68.2
3334	Primary aluminum	—	31.7	31.5	31.0	30.5	—	25.8	25.7	25.1	25.0
335	Nonferrous rolling and drawing	(*)	208.4	213.3	225.1	224.0	(*)	155.0	159.0	169.3	168.9
3351	Copper rolling and drawing	—	42.3	44.1	47.5	46.5	—	31.4	32.9	35.5	35.0
3352	Aluminum rolling and drawing	—	67.6	68.4	74.4	74.7	—	49.4	49.8	55.2	55.8
3357	Nonferrous wire drawing and insulating	—	76.5	78.2	79.3	79.1	—	58.9	60.3	61.7	61.4
336	Nonferrous foundries	(*)	82.7	85.5	94.1	91.9	(*)	67.6	70.1	78.1	76.1
3361	Aluminum castings	—	43.5	45.3	48.5	47.8	—	36.2	37.9	41.2	40.5
3362,9	Other nonferrous castings	—	39.2	40.2	45.6	44.1	—	31.4	32.2	36.9	35.6
339	Miscellaneous primary metal products	69.1	70.6	71.9	76.8	76.1	53.4	55.2	56.5	60.9	60.4
3391	Iron and steel forgings	—	47.2	47.9	50.5	50.4	—	37.4	38.2	40.4	40.4
34	FABRICATED METAL PRODUCTS	1,382.6	1,368.4	1,400.9	1,449.2	1,428.9	1,054.5	1,038.0	1,068.3	1,111.4	1,093.9
341	Metal cans	71.5	72.1	72.2	73.0	72.3	60.8	61.2	61.4	61.7	61.2
342	Cutlery, hand tools, and hardware	151.6	147.9	154.3	165.0	162.1	116.5	112.0	118.8	128.6	126.3
3421,3,5	Cutlery and hand tools, incl. saws	—	64.7	65.2	67.0	66.0	—	49.2	50.1	51.6	51.0
3429	Hardware, n e c	—	83.2	89.1	98.0	96.1	—	62.8	68.7	77.0	75.3
343	Plumbing and heating, except electric	80.6	80.4	81.8	87.3	84.5	59.5	58.5	60.3	64.8	62.1
3431,2	Sanitary ware & plumbers' brass goods	—	35.3	35.7	39.1	37.4	—	27.5	28.2	31.0	29.6
3433	Heating equipment, except electric	—	45.1	46.1	48.2	47.1	—	31.0	32.1	33.8	32.5
344	Fabricated structural metal products	428.6	424.4	428.8	438.6	436.8	309.3	305.0	308.8	315.6	314.2
3441	Fabricated structural steel	—	107.9	108.7	112.6	111.5	—	79.0	79.7	83.0	82.1
3442	Metal doors, sash, and trim	—	66.3	68.1	73.0	72.0	—	47.9	49.5	53.8	52.4
3443	Fabricated plate work (boiler shops)	—	120.7	122.4	115.7	118.8	—	84.9	86.6	78.4	81.9
3444	Sheet metal work	—	81.0	81.7	85.0	83.8	—	58.7	59.1	62.0	61.0
3446,9	Architectural and misc. metal work	—	48.5	47.9	52.3	50.7	—	34.5	33.9	38.4	36.8
345	Screw machine products, bolts, etc	(*)	108.0	110.6	113.3	112.8	(*)	83.8	85.8	88.7	88.7
3451	Screw machine products	—	48.3	49.2	50.8	51.3	—	40.2	40.8	42.7	43.3
3452	Bolts, nuts, rivets, and washers	—	59.7	61.4	62.5	61.5	—	43.6	45.0	46.0	45.4
346	Metal stampings	(*)	227.1	240.2	249.2	241.7	(*)	180.9	193.3	201.4	193.9
347	Metal services, n e c	(*)	87.9	90.3	94.9	92.9	(*)	72.2	73.9	78.8	77.0
348	Misc. fabricated wire products	64.8	64.1	64.3	69.0	68.4	51.2	50.3	50.5	55.2	54.7
349	Misc. fabricated metal products	156.0	156.5	158.4	158.9	157.4	113.6	114.1	115.5	116.6	115.8
3494,8	Valves, pipe, and pipe fittings	—	92.5	94.2	94.2	94.0	—	64.5	66.0	65.9	66.0

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 ¹				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
<i>Durable Goods--Continued</i>											
35	MACHINERY, EXCEPT ELECTRICAL	1,955.5	1,968.4	1,998.1	2,022.2	2,032.1	1,295.0	1,307.9	1,334.6	1,361.6	1,372.8
351	Engines and turbines	107.1	106.9	106.6	111.8	113.0	71.8	72.6	71.9	75.7	77.1
3511	Steam engines and turbines	-	39.0	39.9	40.5	40.4	-	24.0	24.3	23.3	23.2
3519	Internal combustion engines, n e c	-	67.9	66.7	71.3	72.6	-	48.6	47.6	52.4	53.9
352	Farm machinery	-	127.9	130.2	128.4	131.3	-	90.1	92.0	88.4	91.0
353	Construction and related machinery	285.7	289.9	293.5	294.5	297.5	186.7	190.7	194.5	195.7	198.8
3531,2	Construction and mining machinery	-	151.9	155.0	154.2	156.0	-	104.0	106.9	106.5	108.1
3533	Oil field machinery	-	47.0	47.4	46.6	46.1	-	32.0	32.7	32.6	32.1
3535,6	Conveyors, hoists, cranes, monorails	-	43.0	43.0	44.3	45.2	-	26.1	26.4	27.4	28.4
3537	Industrial trucks and tractors	-	32.4	32.7	34.5	34.5	-	20.4	20.6	21.7	21.9
354	Metal working machinery	(*)	319.3	328.6	338.5	335.9	(*)	233.7	242.1	250.1	248.1
3541	Machine tools, metal cutting types	-	71.2	72.9	78.1	77.7	-	46.9	48.2	52.2	51.9
3544	Special dies, tools, jigs, & fixtures	-	117.6	121.8	122.3	122.4	-	95.1	98.8	99.6	100.1
3545	Machine tool accessories	-	55.0	57.0	59.0	59.2	-	39.0	41.0	42.5	42.5
3542,8	Misc. metal working machinery	-	75.5	76.9	79.1	76.6	-	52.7	54.1	55.8	53.6
355	Special industry machinery	190.2	192.7	195.1	204.6	205.5	123.1	124.5	126.8	134.8	135.9
3551	Food products machinery	-	43.3	43.2	43.4	43.7	-	27.1	27.0	27.7	28.2
3552	Textile machinery	-	36.0	36.7	42.0	42.1	-	26.4	27.1	31.6	31.6
3555	Printing trades machinery	-	31.3	32.3	33.5	33.6	-	19.5	20.4	21.1	21.3
356	General industrial machinery	276.9	281.1	285.0	288.3	291.5	183.1	184.8	188.7	190.1	192.8
3561	Pumps and compressors	-	74.9	76.3	74.0	76.9	-	43.3	44.9	41.3	43.7
3562	Ball and roller bearings	-	60.0	60.9	62.3	63.1	-	45.7	46.9	48.2	48.6
3564	Blowers and fans	-	31.5	31.5	32.2	32.2	-	20.5	20.4	20.2	20.6
3566	Power transmission equipment	-	52.1	52.4	54.6	54.1	-	36.7	37.0	39.4	38.9
357	Office and computing machines	284.0	288.8	293.0	279.3	280.3	141.6	141.9	145.5	143.5	144.8
3573	Electronic computing equipment	-	194.0	196.5	183.6	186.4	-	74.1	76.2	74.1	77.1
358	Service industry machines	140.8	143.5	143.9	145.8	148.3	98.0	101.2	101.2	103.3	106.3
3585	Refrigeration machinery	-	96.7	95.9	96.7	98.9	-	68.7	68.1	69.2	72.1
359	Misc. machinery, except electrical	215.1	218.3	222.2	231.0	228.8	165.7	168.4	171.9	180.0	178.0
36	ELECTRICAL EQUIPMENT AND SUPPLIES	1,924.9	1,914.1	1,932.1	2,049.0	2,022.7	1,278.1	1,264.8	1,291.4	1,364.5	1,344.3
361	Electric test & distributing equipment	216.6	216.0	219.4	217.1	212.1	148.0	146.9	150.7	147.5	145.1
3611	Electric measuring instruments	-	70.1	71.5	73.2	71.3	-	43.4	44.9	45.8	45.3
3612	Transformers	-	59.7	60.2	58.7	58.0	-	43.3	44.0	42.7	42.4
3613	Switchgear and switchboard apparatus	-	86.2	87.7	85.2	82.8	-	60.2	61.8	59.0	57.4
362	Electrical industrial apparatus	221.5	222.7	219.9	230.8	230.4	153.5	154.9	152.1	161.4	161.5
3621	Motors and generators	-	118.2	117.5	124.6	125.1	-	84.0	83.2	88.7	89.5
3622	Industrial controls	-	62.4	58.8	63.7	63.4	-	40.6	37.4	41.8	41.5
363	Household appliances	185.3	180.6	183.0	188.6	189.2	148.4	144.5	147.1	149.1	150.2
3632	Household refrigerators and freezers	-	61.5	60.9	59.1	61.5	-	51.9	51.7	48.2	50.6
3633	Household laundry equipment	-	25.5	28.0	28.1	27.3	-	20.1	22.4	21.9	21.1
3634	Electric housewares and fans	-	43.8	43.9	47.1	46.6	-	34.4	34.5	37.1	36.9
364	Electric lighting and wiring equipment	203.4	202.0	208.2	208.6	201.5	156.3	154.9	160.7	160.5	154.2
3641	Electric lamps	-	47.0	47.3	39.9	39.9	-	41.5	42.0	35.2	35.2
3642	Lighting fixtures	-	62.4	64.3	67.6	63.8	-	47.3	49.4	52.4	48.8
3643,4	Wiring devices	-	92.6	96.6	101.1	97.8	-	66.1	69.3	72.9	70.2
365	Radio and TV receiving equipment	136.1	129.4	128.2	158.9	154.6	101.1	93.8	92.6	119.1	115.2
366	Communication equipment	496.6	498.3	500.9	529.6	527.4	250.3	250.4	251.6	259.4	257.0
3661	Telephone and telegraph apparatus	-	174.3	171.6	149.8	147.8	-	118.2	116.9	99.2	97.2
3662	Radio and TV communication equipment	-	324.0	329.3	379.8	379.6	-	132.2	134.7	160.2	159.8
367	Electronic components and accessories	(*)	347.7	353.4	392.9	387.9	(*)	230.3	235.9	274.0	270.1
3671-3	Electron tubes	-	61.4	61.3	70.8	71.2	-	41.2	40.8	48.6	49.0
3674,9	Other electronic components	-	286.3	292.1	322.1	316.7	-	189.1	195.1	225.4	221.1
369	Misc. electrical equipment & supplies	119.0	117.4	119.1	122.5	119.6	90.7	89.1	90.7	93.5	91.0
3694	Engine electrical equipment	-	60.2	61.0	65.1	64.0	-	46.5	46.9	50.5	49.6
37	TRANSPORTATION EQUIPMENT	1,780.1	1,796.8	1,889.6	2,056.0	2,022.9	1,215.8	1,233.1	1,321.1	1,439.7	1,409.1
371	Motor vehicles and equipment	(*)	800.7	874.9	907.5	856.7	(*)	610.5	680.5	697.9	651.4
3711	Motor vehicles	-	348.6	388.6	398.7	363.3	-	253.9	290.8	291.2	257.8
3712	Passenger car bodies	-	46.8	55.5	54.4	50.4	-	36.4	45.5	44.7	40.7
3713	Truck and bus bodies	-	39.3	40.4	41.7	41.6	-	31.7	32.7	34.3	34.2
3714	Motor vehicle parts and accessories	-	342.3	365.9	381.9	370.4	-	271.3	293.6	304.1	294.6
3715	Truck trailers	-	23.7	24.5	30.8	31.0	-	17.2	17.9	23.6	24.1
372	Aircraft and parts	(*)	681.3	688.2	804.6	817.7	(*)	370.7	377.7	460.5	470.8
3721	Aircraft	-	383.1	390.1	464.2	471.2	-	203.2	208.7	259.7	264.8
3722	Aircraft engines and engine parts	-	178.5	175.3	201.9	204.3	-	92.2	90.2	110.8	112.7
3723,9	Other aircraft parts and equipment	-	119.7	122.8	138.5	142.2	-	75.3	78.8	90.0	93.3
373	Ship and boat building and repairing	(*)	161.6	167.7	186.0	188.4	(*)	129.5	134.6	152.3	155.1
3731	Ship building and repairing	-	129.5	133.0	143.1	142.9	-	104.3	107.3	117.6	117.8

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 ¹				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
<i>Durable Goods--Continued</i>											
TRANSPORTATION EQUIPMENT--Continued											
3732	Boat building and repairing.....	-	32.1	34.7	42.9	45.5	-	25.2	27.3	34.7	37.3
374	Railroad equipment.....	-	48.5	53.7	53.4	52.5	-	36.6	41.5	42.0	41.3
375,9	Other transportation equipment.....	-	104.7	105.1	104.5	107.6	-	85.8	86.8	87.0	90.5
38	INSTRUMENTS AND RELATED PRODUCTS	452.6	457.9	462.6	482.1	477.4	273.7	276.8	281.0	297.2	293.3
381	Engineering & scientific instruments.....	-	67.8	69.1	76.9	77.2	-	33.2	34.0	37.2	37.3
382	Mechanical measuring & control devices.....	107.3	108.7	109.6	116.1	116.6	64.9	66.4	67.5	73.3	73.3
3821	Mechanical measuring devices.....	-	69.2	69.5	72.4	72.5	-	39.9	40.3	42.7	42.6
3822	Automatic temperature controls.....	-	39.5	40.1	43.7	44.1	-	26.5	27.2	30.6	30.7
383,5	Optical and ophthalmic goods.....	52.4	53.1	53.8	54.6	53.8	36.0	36.4	36.8	38.8	38.2
385	Ophthalmic goods.....	-	35.3	35.9	34.9	34.1	-	26.7	27.0	26.7	26.0
384	Medical instruments and supplies.....	85.7	85.0	85.0	83.3	82.6	57.6	56.7	56.8	56.7	56.1
386	Photographic equipment and supplies.....	(*)	111.9	111.4	114.2	113.0	(*)	58.6	58.4	61.0	60.9
387	Watches, clocks, and watchcases.....	-	31.4	33.7	37.0	34.2	-	25.5	27.5	30.2	27.5
MISCELLANEOUS MANUFACTURING											
39	INDUSTRIES	433.8	413.1	426.7	452.0	433.7	336.4	316.8	329.5	354.4	337.9
391	Jewelry, silverware, and plated ware.....	50.5	48.0	51.2	53.4	51.6	37.0	34.7	38.5	40.4	38.5
394	Toys and sporting goods.....	-	116.4	117.6	131.0	124.5	-	94.1	95.0	108.4	103.1
3941-3	Games, toys, dolls, & play vehicles.....	-	67.5	67.7	79.3	73.2	-	54.8	54.9	66.6	61.4
3949	Sporting and athletic goods, n e c.....	-	48.9	49.9	51.7	51.3	-	39.3	40.1	41.8	41.7
395	Pens, pencils, office, and art supplies.....	-	34.7	35.8	35.6	33.6	-	24.9	25.7	25.9	23.6
396	Costume jewelry and notions.....	-	55.3	57.8	61.5	58.7	-	45.0	47.3	51.0	48.6
393,9	Other manufacturing industries.....	165.1	158.7	164.3	170.5	165.3	124.0	118.1	123.0	128.7	124.1
393	Musical instruments and parts.....	-	20.8	22.1	25.2	24.6	-	16.3	17.2	20.0	19.5
<i>Nondurable Goods</i>											
20	FOOD AND KINDRED PRODUCTS	1,939.3	1,829.2	1,796.7	1,941.9	1,832.6	1,357.3	1,233.9	1,202.9	1,338.0	1,229.6
201	Meat products.....	354.8	350.6	345.2	343.5	341.0	290.7	286.5	280.4	278.4	275.4
2011	Meat packing plants.....	-	185.8	184.7	185.6	186.0	-	146.6	145.4	145.0	144.8
2013	Sausages and other prepared meats.....	-	60.0	59.6	58.4	57.9	-	43.5	42.9	42.2	41.7
2015	Poultry dressing plants.....	-	104.8	100.9	99.5	97.1	-	96.4	92.1	91.2	88.9
202	Dairy products.....	246.2	248.0	248.6	255.4	257.3	118.4	119.7	120.1	121.3	123.3
2024	Ice cream and frozen desserts.....	-	26.6	26.3	27.8	28.2	-	14.4	14.1	14.7	15.0
2026	Fluid milk.....	-	173.6	174.3	179.7	180.6	-	68.0	68.5	69.2	70.1
203	Canned, cured, and frozen foods.....	-	301.7	274.1	396.8	303.1	-	253.1	227.4	349.4	256.4
2031,6	Canned, cured, and frozen sea foods.....	-	44.3	43.2	45.5	46.3	-	38.9	37.9	40.5	41.0
2032,3	Canned food, except sea foods.....	-	157.0	126.5	234.5	160.9	-	129.2	100.2	207.0	134.5
2037	Frozen fruits and vegetables.....	-	63.3	70.2	74.0	60.3	-	55.4	62.3	66.4	52.8
204	Grain mill products.....	(*)	139.0	138.8	138.7	137.0	(*)	99.7	99.3	99.6	97.4
2041	Flour and other grain mill products.....	-	28.6	28.8	28.9	28.0	-	21.1	21.3	21.4	20.6
2042	Prepared feeds for animals and fowls.....	-	68.2	67.9	67.2	66.8	-	46.6	46.2	45.5	44.5
205	Bakery products.....	285.7	285.5	284.1	285.4	283.8	168.8	169.6	168.3	167.8	166.3
2051	Bread, cake, and related products.....	-	236.8	236.5	239.6	239.3	-	129.8	129.6	130.7	130.6
2052	Cookies and crackers.....	-	48.7	47.6	45.8	44.5	-	39.8	38.7	37.1	35.7
206	Sugar.....	-	31.3	30.2	33.1	32.3	-	23.2	21.8	25.2	24.2
207	Confectionery and related products.....	86.3	79.8	82.7	88.7	82.2	70.4	63.9	66.6	73.0	66.7
2071	Confectionery products.....	-	63.5	65.8	71.5	65.2	-	51.7	53.9	60.0	54.0
208	Beverages.....	246.9	248.8	248.6	253.6	250.1	123.3	125.5	126.0	129.5	126.8
2082	Malt liquors.....	-	61.0	61.9	63.6	59.2	-	40.6	41.3	42.4	38.1
2086	Bottled and canned soft drinks.....	-	140.8	139.2	141.3	141.8	-	53.9	53.1	54.3	55.2
209	Misc. foods and kindred products.....	143.8	144.5	144.4	146.7	145.8	92.3	92.7	93.0	93.8	93.1
21	TOBACCO MANUFACTURES	85.8	71.6	71.4	93.0	71.9	72.0	58.3	58.2	79.3	59.1
211	Cigarettes.....	-	42.4	42.0	40.7	40.8	-	34.1	33.9	32.8	33.1
212	Cigars.....	-	16.8	17.4	18.4	16.8	-	15.2	15.7	16.8	15.3
22	TEXTILE MILL PRODUCTS	961.5	951.9	971.5	1,000.1	992.0	843.5	834.2	853.1	881.4	874.0
221	Weaving mills, cotton.....	(*)	221.3	222.4	220.8	225.9	(*)	200.8	202.1	200.1	205.1
222	Weaving mills, synthetics.....	(*)	93.5	96.1	102.2	100.4	(*)	81.6	84.4	91.4	89.6
223	Weaving and finishing mills, wool.....	37.1	37.6	41.0	42.1	42.1	31.7	32.1	35.2	36.1	36.1
224	Narrow fabric mills.....	(*)	29.4	30.2	31.9	31.6	(*)	25.7	26.7	28.3	28.1
225	Knitting mills.....	237.1	234.3	239.5	251.2	247.7	208.5	205.6	210.5	221.4	218.0
2251	Women's hosiery, except socks.....	-	63.5	64.7	68.7	67.9	-	56.9	58.1	62.2	61.4
2252	Hosiery, n e c.....	-	35.7	35.9	37.4	36.9	-	31.9	32.1	33.8	33.2
2253	Knit outerwear mills.....	-	66.7	69.3	72.6	71.1	-	57.6	60.1	62.4	60.9
2254	Knit underwear mills.....	-	29.2	29.7	32.5	32.6	-	25.8	26.1	28.6	28.8

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

62

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

SIC Code	Industry	(In thousands)																				
		All employees					Production workers ¹															
		Aug. 1970 ^p	July 1970 ^p	June 1970	Aug. 1969	July 1969	Aug. 1970 ^p	July 1970 ^p	June 1970	Aug. 1969	July 1969											
	<i>Nondurable Goods--Continued</i>																					
	TEXTILE MILL PRODUCTS--Continued																					
226	Textile finishing, except wool	83.0	82.1	83.3	82.5	80.9	70.3	69.4	70.6	69.9	68.3											
227	Floor covering mills	-	52.6	53.4	57.7	55.5	-	41.2	41.9	46.5	44.6											
228	Yarn and thread mills	131.2	128.7	131.1	131.0	129.1	121.1	118.7	120.9	121.1	119.6											
229	Miscellaneous textile goods	(*)	72.4	74.5	80.7	78.8	(*)	59.1	60.8	66.6	64.6											
23	APPAREL AND OTHER TEXTILE PRODUCTS...	1,403.4	1,348.8	1,400.0	1,427.1	1,369.2	1,229.0	1,179.8	1,228.1	1,253.9	1,197.3											
231	Men's and boys' suits and coats	125.0	120.8	129.8	135.4	127.5	109.0	104.9	113.1	119.1	111.9											
232	Men's and boys' furnishings	389.7	380.8	387.3	373.3	364.4	344.7	336.9	343.4	331.0	322.1											
2321	Men's and boys' shirts and nightwear ...	-	124.6	126.2	117.9	115.2	-	111.8	113.3	105.6	103.0											
2327	Men's and boys' separate trousers	-	80.4	82.4	82.0	80.7	-	72.6	74.7	74.8	72.9											
2328	Men's and boys' work clothing	-	85.5	86.5	85.2	82.8	-	73.3	74.3	73.2	71.2											
233	Women's and misses' outerwear	429.6	414.2	430.2	437.4	414.6	381.1	366.9	381.5	387.6	365.6											
2331	Women's and misses' blouses and waists ..	-	50.0	54.1	51.4	49.9	-	44.6	48.6	46.0	44.2											
2335	Women's and misses' dresses	-	191.9	201.5	207.0	191.5	-	172.2	181.0	185.9	170.9											
2337	Women's and misses' suits and coats ...	-	84.0	82.5	92.3	88.2	-	74.1	72.8	81.9	78.1											
2339	Women's and misses' outerwear, n e c ...	-	88.3	92.1	86.7	85.0	-	76.0	79.1	73.8	72.4											
234	Women's and children's undergarments ...	117.2	112.5	116.0	125.3	120.6	101.6	97.5	100.7	109.1	104.6											
2341	Women's and children's underwear	-	80.0	82.0	86.5	82.8	-	70.6	72.5	76.6	73.0											
2342	Corsets and allied garments	-	32.5	34.0	38.8	37.8	-	26.9	28.2	32.5	31.6											
235	Hats, caps, and millinery	-	17.7	18.8	21.3	20.8	-	16.0	16.9	19.1	18.7											
236	Children's outerwear	75.1	75.5	78.5	76.6	76.4	66.7	67.1	69.9	68.0	67.8											
2361	Children's dresses and blouses	-	32.7	34.2	32.8	34.2	-	29.6	30.9	29.6	30.9											
237,8	Fur goods and miscellaneous apparel	-	72.9	74.4	80.3	78.0	-	62.3	63.8	69.5	67.2											
239	Misc. fabricated textile products	(*)	154.4	165.0	177.5	166.9	(*)	128.2	138.8	150.5	139.4											
2391,2	Housefurnishings	-	61.9	63.0	67.9	63.8	-	53.0	54.1	58.5	54.6											
26	PAPER AND ALLIED PRODUCTS.....	712.3	711.2	720.0	722.6	715.7	550.0	547.1	556.8	560.1	553.2											
261,2,6	Paper and pulp mills	(*)	228.8	230.1	230.2	229.1	(*)	176.3	178.4	179.7	178.4											
263	Paperboard mills	72.9	72.1	72.4	70.7	71.2	58.8	57.9	58.3	56.0	56.3											
264	Misc. converted paper products	187.0	185.9	189.5	189.8	187.7	136.2	134.6	138.0	138.3	135.9											
2643	Bags, except textile bags	-	41.3	42.4	42.7	42.0	-	32.7	33.8	34.6	33.9											
265	Paperboard containers and boxes	225.2	224.4	228.0	231.9	227.7	179.6	178.3	182.1	186.1	182.6											
2651,2	Folding and setup paperboard boxes	-	67.7	69.0	70.5	68.2	-	55.6	56.9	58.0	56.7											
2653	Corrugated and solid fiber boxes	-	107.4	108.7	111.2	109.9	-	81.9	83.6	86.3	85.2											
2654	Sanitary food containers	-	30.2	30.3	30.1	29.3	-	25.0	25.1	24.6	23.8											
27	PRINTING AND PUBLISHING.....	1,106.0	1,103.6	1,105.7	1,098.0	1,092.5	676.3	676.6	679.9	682.2	678.1											
271	Newspapers	376.5	373.4	373.9	369.2	369.1	180.1	180.6	181.0	179.9	179.8											
272	Periodicals	-	75.1	74.7	75.4	74.8	-	24.1	24.8	26.1	25.9											
273	Books	-	99.2	100.2	99.0	97.9	-	53.6	54.9	55.0	54.3											
275	Commercial printing	352.9	353.7	354.3	350.3	346.8	272.1	272.7	273.0	271.7	268.8											
2751	Commercial printing, ex. lithographic ...	-	216.8	216.0	214.9	211.9	-	168.7	167.9	168.5	166.0											
2752	Commercial printing, lithographic	-	125.7	126.9	123.8	123.3	-	95.7	96.6	94.4	94.0											
278	Blankbooks and bookbinding	59.1	59.0	59.0	60.1	59.1	48.7	48.5	48.6	49.6	48.7											
274,6,7,9	Other publishing & printing ind.	143.1	143.2	143.6	144.0	144.8	96.7	97.1	97.6	99.9	100.6											
28	CHEMICALS AND ALLIED PRODUCTS....	1,063.7	1,066.8	1,063.7	1,076.5	1,076.1	605.2	608.6	607.5	629.8	627.6											
281	Industrial chemicals	322.4	323.0	320.4	321.3	324.5	173.1	174.2	170.9	175.6	176.8											
2812	Alkalies and chlorine	-	22.1	22.7	22.8	22.9	-	14.8	15.6	15.9	16.0											
2818	Industrial organic chemicals, n e c ...	-	131.9	132.1	129.2	131.9	-	57.8	57.8	57.4	58.4											
2819	Industrial inorganic chemicals, n e c ...	-	102.2	97.9	100.7	100.9	-	58.9	53.6	58.4	58.7											
282	Plastics materials and synthetics	224.4	225.6	225.3	229.9	228.5	145.0	145.5	146.2	150.6	149.5											
2821	Plastics materials and resins	-	97.5	97.4	97.1	96.8	-	59.0	59.1	59.2	58.6											
2823,4	Synthetic fibers	-	114.6	114.2	119.1	117.9	-	77.4	77.9	82.4	81.9											
283	Drugs	152.0	152.2	151.5	148.7	146.6	72.3	73.4	73.2	73.6	71.5											
2834	Pharmaceutical preparations	-	117.7	117.2	115.9	114.6	-	55.3	55.4	57.1	56.0											
284	Soap, cleaners, and toilet goods	128.5	128.2	127.0	126.6	124.4	73.2	73.1	72.5	75.1	73.4											
2841	Soap and other detergents	-	42.6	42.0	42.2	41.4	-	27.6	27.2	27.7	27.2											
2844	Toilet preparations	-	50.8	50.7	51.0	49.8	-	28.7	29.0	31.5	30.5											
285	Paints and allied products	72.7	73.3	72.5	74.3	74.1	41.1	41.4	41.0	41.6	41.5											
287	Agricultural chemicals	54.4	55.4	58.9	53.0	54.2	31.4	32.4	35.9	31.4	32.4											
2871,2	Fertilizers, complete & mixing only	-	37.5	40.7	35.4	36.2	-	23.6	26.6	22.5	23.2											
286,9	Other chemical products	109.3	109.1	108.1	122.7	123.8	69.1	68.6	67.8	81.9	82.5											
2892	Explosives	-	34.4	34.9	45.8	47.0	-	24.4	24.8	35.4	36.4											
29	PETROLEUM AND COAL PRODUCTS....	197.8	197.3	196.7	195.0	195.3	121.8	121.5	121.4	122.2	122.4											
291	Petroleum refining	157.5	156.6	156.1	154.7	154.7	92.5	92.0	91.9	92.8	92.6											
295,9	Other petroleum and coal products	40.3	40.7	40.6	40.3	40.6	29.3	29.5	29.5	29.4	29.8											

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 ¹				
		All employees									
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
	<i>Non-durable Goods--Continued</i>										
30	RUBBER AND PLASTICS PRODUCTS, N.E.C.	575.0	569.3	572.5	599.4	588.8	442.6	433.7	436.5	464.4	454.4
301	Tires and inner tubes	113.9	113.9	112.0	120.2	119.4	76.2	76.3	75.1	83.9	83.5
302, 3,6	Other rubber products	166.6	168.2	168.7	182.8	110.8	132.5	130.5	130.3	143.5	141.3
302	Rubber footwear	-	23.1	24.2	25.5	24.9	-	19.8	20.8	21.5	20.9
307	Miscellaneous plastics products	294.5	287.2	291.8	296.4	288.6	233.9	226.9	231.1	237.0	229.6
31	LEATHER AND LEATHER PRODUCTS . . .	327.5	326.9	336.5	351.0	341.2	279.5	279.9	288.4	301.2	291.8
311	Leather tanning and finishing	27.3	27.0	28.3	29.4	29.0	23.1	23.1	24.5	25.4	25.2
314	Footwear, except rubber	218.1	220.2	225.4	230.6	226.1	189.8	192.4	196.9	201.0	196.4
312, 3,5-7,9	Other leather products	82.1	79.7	82.8	91.0	86.1	66.6	64.4	67.0	74.8	70.2
316	Luggage	-	17.4	18.5	22.1	21.4	-	13.2	14.1	17.7	17.1
317	Handbags and personal leather goods	-	34.4	35.3	38.3	36.2	-	29.1	29.7	32.5	30.5
-	TRANSPORTATION AND PUBLIC UTILITIES	4,578	4,593	4,561	4,510	4,507	3,973	3,988	3,957	3,928	3,926
40	RAILROAD TRANSPORTATION	-	644.8	640.7	652.6	655.1	-	-	-	-	-
4011	Class I railroads ²	-	576.3	572.3	581.3	582.8	-	-	-	-	-
	LOCAL AND INTERURBAN PASSENGER TRANSIT	-	267.1	285.9	260.0	261.7	-	-	-	-	-
411	Local and suburban transportation	-	74.9	75.9	76.1	77.3	-	70.7	71.6	71.9	73.0
412	Taxicabs	-	114.4	114.8	109.9	108.7	-	-	-	-	-
413	Intercity highway transportation	-	45.0	43.8	44.9	44.5	-	41.5	40.4	41.2	40.8
42	TRUCKING AND WAREHOUSING	-	1,131.2	1,103.7	1,102.0	1,101.2	-	1,022.1	996.6	1,000.8	1,000.7
421,3	Trucking and trucking terminals	-	1,044.5	1,017.0	1,015.3	1,015.6	-	947.9	922.5	925.0	926.2
422	Public warehousing	-	86.7	86.7	86.7	85.6	-	74.2	74.1	75.8	74.5
45	TRANSPORTATION BY AIR	-	345.9	350.3	356.5	359.9	-	-	-	-	-
451,2	Air transportation	-	314.1	318.2	323.6	326.4	-	-	-	-	-
46	PIPE LINE TRANSPORTATION	-	18.4	18.2	18.6	18.7	-	14.7	14.5	15.1	15.2
44,47	OTHER TRANSPORTATION AND SERVICES	-	326.9	333.0	350.3	351.2	-	-	-	-	-
44	WATER TRANSPORTATION	-	219.0	226.0	242.4	245.1	-	-	-	-	-
47	TRANSPORTATION SERVICES	-	107.9	107.0	107.9	106.1	-	-	-	-	-
48	COMMUNICATION	-	1,152.1	1,133.7	1,081.0	1,069.7	-	905.3	888.7	855.0	846.2
481	Telephone communication	-	961.4	944.4	895.4	887.9	-	765.7	750.7	719.4	714.0
482	Telegraph communication ³	-	31.5	31.4	32.7	32.8	-	21.5	21.4	22.6	22.6
483	Radio and television broadcasting	-	138.8	137.9	136.0	132.4	-	110.6	109.3	107.2	104.0
49	ELECTRIC, GAS, AND SANITARY SERVICES	-	706.3	695.2	688.7	689.0	-	609.3	599.2	593.6	593.9
491	Electric companies and systems	-	293.0	287.4	284.2	284.0	-	250.1	245.2	243.0	243.2
492	Gas companies and systems	-	167.0	165.3	164.0	164.7	-	143.4	141.5	140.3	140.9
493	Combination companies and systems	-	192.3	189.5	189.6	189.5	-	168.2	165.8	165.4	165.0
494-7	Water, steam, & sanitary systems	-	54.0	53.0	50.9	50.8	-	47.6	46.7	44.9	44.8
-	WHOLESALE AND RETAIL TRADE	14,888	14,930	14,994	14,670	14,663	13,230	13,275	13,344	13,055	13,053
50	WHOLESALE TRADE	3,883	3,902	3,872	3,796	3,787	3,265	3,284	3,258	3,197	3,188
501	Motor vehicles & automotive equipment	-	329.8	325.4	311.8	310.5	-	269.6	266.5	258.2	256.7
502	Drugs, chemicals, and allied products	-	236.9	236.5	227.4	227.2	-	192.1	192.4	186.2	186.0
503	Dry goods and apparel	-	150.7	151.5	151.1	149.5	-	118.9	119.3	120.4	119.3
504	Groceries and related products	-	570.5	560.7	554.4	565.4	-	500.2	492.9	485.1	496.0
506	Electrical goods	-	338.3	331.1	311.5	311.1	-	286.3	280.2	260.3	259.8
507	Hardware; plumbing & heating equipment	-	174.7	173.3	173.5	172.7	-	148.2	146.7	147.4	146.3
508	Machinery, equipment, and supplies	-	758.4	755.8	739.2	734.1	-	646.5	644.1	628.4	623.8
509	Miscellaneous wholesalers	-	1,258.6	1,254.9	1,232.7	1,227.1	-	1,052.9	1,048.2	1,033.0	1,027.6
52-59	RETAIL TRADE	11,005	11,028	11,122	10,874	10,876	9,965	9,991	10,086	9,858	9,865
53	RETAIL GENERAL MERCHANDISE	-	2,220.1	2,250.4	2,188.4	2,189.7	-	2,032.4	2,061.8	2,008.4	2,008.6
531	Department stores	-	1,438.2	1,462.3	1,416.2	1,425.8	-	1,319.8	1,341.9	1,301.5	1,309.2
532	Mail order houses	-	118.4	120.9	124.6	121.8	-	109.3	111.8	115.5	113.2
533	Variety stores	-	309.8	312.6	311.4	308.5	-	285.4	288.9	287.1	284.2
54	FOOD STORES	-	1,723.0	1,731.7	1,645.0	1,653.2	-	1,602.2	1,610.4	1,529.3	1,540.7
541-3	Grocery, meat, and vegetable stores	-	1,555.3	1,560.8	1,483.3	1,490.6	-	1,445.7	1,450.9	1,379.0	1,389.5

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 ¹						
		Aug. 1970 P	July 1970 P	June 1970	Aug. 1969	July 1969	Aug. 1970 P	July 1970 P	June 1970	Aug. 1969	July 1969		
-	WHOLESALE AND RETAIL TRADE (Continued)												
56	APPAREL AND ACCESSORY STORES	-	680.3	702.3	691.6	689.9	-	608.0	630.1	620.1	618.2		
561	Men's & boys' clothing & furnishings	-	125.6	128.2	119.7	120.1	-	112.0	114.8	106.6	107.2		
562	Women's ready-to-wear stores	-	254.7	263.1	261.0	260.8	-	227.8	236.4	234.2	234.4		
565	Family clothing stores	-	98.2	100.9	104.4	104.6	-	91.2	93.9	97.1	97.1		
566	Shoe stores	-	132.0	136.8	138.4	136.2	-	115.5	120.2	122.2	119.4		
57	FURNITURE AND HOME FURNISHINGS STORES	-	449.5	451.8	456.0	454.6	-	391.5	394.7	398.6	397.8		
571	Furniture and home furnishings	-	284.7	286.4	288.1	288.7	-	246.6	248.8	251.2	251.6		
58	EATING AND DRINKING PLACES	-	2,538.9	2,561.7	2,525.4	2,510.4	-	2,376.9	2,401.9	2,362.2	2,350.7		
52,55,59	OTHER RETAIL TRADE	-	3,416.3	3,423.9	3,367.3	3,378.5	-	2,979.8	2,987.1	1,938.9	2,949.0		
52	Building materials and farm equipment	-	572.9	569.9	568.8	570.1	-	493.5	490.2	490.2	491.9		
55	Automotive dealers & service stations	-	1,630.6	1,623.8	1,617.2	1,622.8	-	-	-	-	-		
551.2	Motor vehicle dealers	-	772.4	771.5	777.5	780.3	-	654.2	652.7	660.5	662.8		
553.9	Other automotive & accessory dealers	-	238.0	236.6	230.2	229.8	-	205.2	204.3	199.1	198.9		
554	Gasoline service stations	-	620.2	615.7	609.5	612.7	-	-	-	-	-		
59	Miscellaneous retail stores	-	1,212.8	1,230.2	1,181.3	1,185.6	-	-	-	-	-		
591	Drug stores and proprietary stores	-	436.2	442.6	435.6	437.4	-	388.5	395.4	388.0	391.0		
594	Book and stationery stores	-	63.6	64.5	60.4	60.8	-	54.4	55.6	51.6	52.0		
596	Farm and garden supply stores	-	108.4	111.6	104.8	105.9	-	-	-	-	-		
598	Fuel and ice dealers	-	101.3	102.4	101.7	101.5	-	87.5	88.5	88.2	88.0		
-	FINANCE, INSURANCE, AND REAL ESTATE⁴	3,729	3,738	3,708	3,641	3,628	2,955	2,965	2,937	2,908	2,896		
60	Banking	-	1,067.2	1,053.6	1,013.1	1,007.8	-	881.6	869.2	843.5	839.2		
61	Credit agencies other than banks	-	375.9	371.9	365.0	365.5	-	294.5	290.7	286.2	286.7		
612	Savings and loan associations	-	111.2	108.7	105.1	105.8	-	89.1	86.8	84.2	84.9		
614	Personal credit institutions	-	195.2	194.6	194.9	194.8	-	-	-	-	-		
62	Security, commodity brokers & services	-	193.1	196.6	226.2	228.1	-	164.5	167.7	201.0	202.1		
63	Insurance carriers	-	1,069.9	1,057.9	1,024.4	1,014.9	-	753.5	743.2	717.0	708.3		
631	Life insurance	-	553.8	548.4	529.2	523.6	-	330.3	325.9	310.5	305.2		
632	Accident and health insurance	-	95.9	94.9	88.8	87.9	-	82.6	81.9	76.7	76.0		
633	Fire, marine, and casualty insurance	-	374.9	369.8	360.9	357.7	-	302.9	298.3	291.5	288.6		
64	Insurance agents, brokers, and service	-	279.4	277.4	269.8	267.9	-	-	-	-	-		
65	Real estate	-	668.8	666.3	657.1	659.2	-	-	-	-	-		
655	Subdividers and developers	-	96.5	96.0	93.3	94.3	-	-	-	-	-		
656	Operative builders	-	42.8	43.9	48.1	49.2	-	-	-	-	-		
66,67	Other finance, insurance, & real estate	-	83.9	84.2	84.9	84.7	-	-	-	-	-		
-	SERVICES	11,690	11,722	11,717	11,372	11,384	10,629	10,659	10,655	10,379	10,396		
70	Hotels and other lodging places	-	840.9	787.9	852.3	856.5	-	-	-	-	-		
701	Hotels, tourist courts, and motels	-	713.2	700.4	731.1	728.5	-	662.9	650.3	679.1	676.9		
72	Personal services	-	995.3	1,016.0	1,023.8	1,036.9	-	-	-	-	-		
721	Laundries and dry cleaning plants	-	513.7	519.2	538.3	547.0	-	466.1	471.7	490.5	499.0		
722	Photographic studios	-	36.1	38.7	37.9	37.3	-	30.7	33.1	33.0	32.4		
73	Miscellaneous business services	-	1,560.5	1,564.1	1,545.7	1,535.2	-	-	-	-	-		
731	Advertising	-	123.3	123.8	123.3	122.6	-	-	-	-	-		
732	Credit reporting and collection	-	77.7	78.5	76.7	76.4	-	-	-	-	-		
734	Services to buildings	-	296.8	294.6	273.1	270.4	-	-	-	-	-		
76	Miscellaneous repair services	-	181.5	179.8	182.1	179.4	-	-	-	-	-		
78	Motion pictures	-	205.0	198.6	215.4	214.9	-	-	-	-	-		
781	Motion picture filming & distributing	-	50.9	48.4	61.0	59.6	-	33.9	32.9	39.5	38.2		
782,3	Motion picture theaters and services	-	154.1	150.2	154.4	155.3	-	-	-	-	-		
80	Medical and other health services	-	3,117.7	3,091.2	2,905.1	2,903.3	-	-	-	-	-		
806	Hospitals	-	1,907.8	1,891.1	1,789.0	1,795.0	-	-	-	-	-		
81	Legal services	-	246.9	241.1	230.1	230.6	-	-	-	-	-		
82	Educational services	-	1,018.8	1,100.5	958.4	974.7	-	-	-	-	-		
821	Elementary and secondary schools	-	343.4	392.4	322.7	323.7	-	-	-	-	-		
822	Colleges and universities	-	583.1	615.3	550.5	564.1	-	-	-	-	-		
89	Miscellaneous services	-	662.6	655.8	648.8	649.3	-	-	-	-	-		
891	Engineering & architectural services	-	307.3	307.8	314.5	317.0	-	-	-	-	-		
892	Nonprofit research agencies	-	106.2	106.0	108.3	107.4	-	-	-	-	-		

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 ¹				
		Aug. 1970 ^p	July 1970 ^p	June 1970	Aug. 1969	July 1969	Aug. 1970 ^p	July 1970 ^p	June 1970	Aug. 1969	July 1969
-	GOVERNMENT	12,075	12,165	12,639	11,699	11,793	-	-	-	-	-
91	FEDERAL GOVERNMENT ⁵	2,667	2,700	2,710	2,804	2,842	-	-	-	-	-
	Executive	-	2,662.9	2,672.7	2,767.2	2,804.9	-	-	-	-	-
	Department of Defense	-	1,034.5	1,044.7	1,142.9	1,167.5	-	-	-	-	-
	Post Office Department	-	726.8	723.9	741.0	739.8	-	-	-	-	-
	Other agencies	-	901.6	904.1	883.3	897.6	-	-	-	-	-
	Legislative	-	30.6	30.6	29.7	29.9	-	-	-	-	-
	Judicial	-	6.9	6.8	6.7	6.7	-	-	-	-	-
92,93	STATE AND LOCAL GOVERNMENT ...	9,408	9,465	9,929	8,895	8,951	-	-	-	-	-
92	State government	-	2,584.5	2,666.6	2,424.4	2,445.8	-	-	-	-	-
	State education	-	962.7	1,071.2	879.8	902.4	-	-	-	-	-
	Other State government	-	1,621.8	1,595.4	1,544.6	1,543.4	-	-	-	-	-
93	Local government	-	6,880.0	7,262.0	6,470.7	6,504.9	-	-	-	-	-
	Local education	-	3,536.4	4,028.9	3,301.0	3,316.7	-	-	-	-	-
	Other local government	-	3,343.6	3,233.1	3,169.7	3,188.2	-	-	-	-	-

¹Data 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.

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

³Data for nonsupervisory workers exclude messengers.

⁴Data for nonoffice salesmen excluded from nonsupervisory count for all series in this division.

⁵Prepared 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

SEASONALLY ADJUSTED EMPLOYMENT

Table 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	102.6	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: August...	134.2	80.6	118.5	122.0	109.3	134.7	129.5	136.6	141.5	163.2	155.6	124.2	168.0
September	134.4	80.9	119.0	122.0	109.4	135.0	129.9	136.8	141.7	163.8	155.3	124.1	167.6
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
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
December...	134.9	81.4	121.1	121.0	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
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
March.....	135.7	81.3	120.6	120.2	110.5	137.2	132.8	138.8	144.9	167.3	159.5	125.6	172.9
April.....	135.5	80.8	118.7	119.3	109.6	137.3	133.0	138.8	145.2	167.7	160.9	128.8	173.5
May.....	134.9	80.5	116.1	117.9	109.9	137.1	133.3	138.4	145.3	167.8	160.8	125.6	174.6
June.....	134.4	80.5	115.1	117.3	110.7	136.7	132.9	138.0	145.4	167.3	159.7	120.3	175.2
July P.....	134.5	80.3	114.8	116.9	111.4	136.8	133.1	138.1	145.3	167.3	160.6	118.7	177.1
August P.....	134.3	80.6	113.4	116.5	111.0	136.7	132.5	138.2	144.9	167.7	160.9	118.1	177.7

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
SEASONALLY ADJUSTED EMPLOYMENT

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

Industry division and group	1970								1969				
	Aug. P	July P	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
TOTAL	70,543	70,635	70,603	70,852	71,163	71,256	71,135	70,992	70,842	70,808	70,836	70,567	70,497
MINING	621	618	620	620	622	626	626	625	627	624	622	623	621
CONTRACT CONSTRUCTION	3,275	3,314	3,324	3,351	3,426	3,481	3,466	3,394	3,496	3,473	3,445	3,436	3,420
MANUFACTURING	19,338	19,411	19,477	19,572	19,795	19,944	19,937	20,018	20,082	20,082	20,233	20,252	20,246
DURABLE GOODS	11,172	11,217	11,286	11,386	11,529	11,648	11,625	11,679	11,773	11,782	11,965	11,968	11,950
Ordnance and accessories	239	244	250	256	261	271	277	281	290	296	298	306	316
Lumber and wood products	569	569	575	582	585	593	598	605	606	603	601	606	607
Furniture and fixtures	455	453	453	456	468	471	472	477	478	479	483	483	484
Stone, clay, and glass products	626	629	636	638	644	651	657	653	659	659	658	657	655
Primary metal industries	1,312	1,301	1,305	1,309	1,323	1,337	1,349	1,360	1,380	1,384	1,386	1,381	1,367
Fabricated metal products	1,384	1,385	1,388	1,394	1,411	1,425	1,428	1,436	1,447	1,444	1,445	1,452	1,451
Machinery, except electrical	1,961	1,968	1,982	2,004	2,032	2,046	2,048	2,043	2,051	2,043	2,050	2,041	2,028
Electrical equipment	1,919	1,935	1,936	1,956	1,979	1,995	1,993	1,922	1,930	1,934	2,051	2,049	2,043
Transportation equipment	1,836	1,855	1,876	1,897	1,925	1,950	1,890	1,988	2,009	2,028	2,078	2,078	2,081
Instruments and related products	449	458	461	468	471	472	472	474	476	476	476	477	479
Miscellaneous manufacturing	422	420	424	426	430	437	441	440	447	436	439	438	439
NONDURABLE GOODS	8,166	8,194	8,191	8,186	8,266	8,296	8,312	8,339	8,309	8,300	8,268	8,284	8,296
Food and kindred products	1,799	1,792	1,800	1,805	1,805	1,823	1,830	1,817	1,805	1,806	1,780	1,799	1,801
Tobacco manufactures	79	81	81	81	81	81	80	80	77	80	81	83	86
Textile mill products	954	959	959	971	979	980	987	999	995	993	991	992	992
Apparel and other textile products	1,387	1,395	1,385	1,375	1,394	1,396	1,398	1,416	1,410	1,405	1,406	1,409	1,410
Paper and allied products	704	708	711	714	721	721	720	721	720	718	716	715	714
Printing and publishing	1,105	1,104	1,103	1,108	1,111	1,113	1,113	1,110	1,109	1,109	1,106	1,100	1,097
Chemicals and allied products	1,051	1,055	1,055	1,060	1,063	1,066	1,067	1,068	1,067	1,064	1,062	1,064	1,064
Petroleum and coal products	192	191	193	192	193	194	193	193	191	191	191	189	190
Rubber and plastics products, nec	573	577	570	548	585	589	591	595	594	596	596	596	597
Leather and leather products	322	332	334	332	334	333	333	337	339	338	339	337	345
TRANSPORTATION AND PUBLIC UTILITIES	4,524	4,539	4,511	4,478	4,468	4,502	4,496	4,507	4,469	4,464	4,463	4,459	4,457
WHOLESALE AND RETAIL TRADE	14,931	14,939	14,927	14,968	14,991	14,984	14,987	14,938	14,750	14,848	14,824	14,739	14,713
WHOLESALE TRADE	3,837	3,856	3,849	3,859	3,853	3,847	3,834	3,828	3,807	3,782	3,775	3,762	3,751
RETAIL TRADE	11,094	11,083	11,078	11,109	11,138	11,137	11,153	11,110	10,943	11,066	11,049	10,977	10,962
FINANCE, INSURANCE, AND REAL ESTATE	3,667	3,676	3,679	3,677	3,673	3,665	3,652	3,648	3,626	3,611	3,596	3,584	3,580
SERVICES	11,563	11,537	11,532	11,572	11,564	11,537	11,530	11,472	11,431	11,383	11,361	11,289	11,248
Hotels and other lodging places	-	721	749	764	768	772	770	775	770	760	761	748	730
Personal services	-	988	1,000	1,005	1,006	1,015	1,018	1,016	1,016	1,021	1,025	1,026	1,026
Medical and other health services	-	3,087	3,070	3,058	3,034	3,025	3,007	2,992	2,973	2,950	2,931	2,914	2,891
Educational services	-	1,163	1,145	1,146	1,151	1,143	1,145	1,125	1,129	1,125	1,122	1,105	1,117
GOVERNMENT	12,624	12,601	12,533	12,614	12,624	12,517	12,441	12,390	12,361	12,323	12,292	12,185	12,212
FEDERAL	2,615	2,627	2,663	2,781	2,852	2,780	2,718	2,717	2,721	2,730	2,739	2,747	2,749
STATE AND LOCAL	10,009	9,974	9,870	9,833	9,772	9,737	9,723	9,673	9,640	9,593	9,553	9,438	9,463

p = preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

B-6: Production workers in industrial and construction activities¹
seasonally adjusted

Major industry group	(In thousands)												
	1970						1969						
	Aug. p	July p	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.
TOTAL	17,245	17,337	17,382	17,447	17,734	17,905	17,878	17,890	18,062	18,041	18,172	18,198	18,183
MINING	473	469	471	470	474	476	477	477	477	475	475	476	474
CONTRACT CONSTRUCTION	2,724	2,769	2,771	2,797	2,871	2,917	2,912	2,840	2,947	2,928	2,903	2,896	2,883
MANUFACTURING	14,048	14,099	14,140	14,180	14,389	14,512	14,489	14,573	14,638	14,638	14,794	14,826	14,826
DURABLE GOODS	8,054	8,083	8,134	8,186	8,318	8,409	8,367	8,425	8,516	8,522	8,703	8,713	8,698
Ordnance and accessories	130	133	137	141	143	151	155	156	164	168	170	174	181
Lumber and wood products	490	489	495	501	504	511	515	523	524	522	520	525	527
Furniture and fixtures	374	372	372	375	386	390	390	395	396	397	401	401	402
Stone, clay, and glass products	496	500	505	506	512	517	522	520	527	526	526	526	524
Primary metal industries	1,047	1,033	1,034	1,037	1,049	1,063	1,072	1,086	1,103	1,108	1,112	1,106	1,093
Fabricated metal products	1,057	1,057	1,057	1,060	1,079	1,087	1,090	1,100	1,110	1,106	1,107	1,116	1,115
Machinery, except electrical	1,307	1,316	1,321	1,340	1,366	1,381	1,381	1,383	1,391	1,384	1,391	1,386	1,374
Electrical equipment and supplies	1,277	1,289	1,297	1,294	1,313	1,323	1,319	1,246	1,255	1,264	1,373	1,367	1,363
Transportation equipment	1,278	1,291	1,309	1,317	1,345	1,358	1,291	1,384	1,403	1,418	1,468	1,477	1,481
Instruments and related products	273	279	280	286	289	289	289	289	292	292	293	294	296
Miscellaneous manufacturing industries	325	324	327	329	332	339	343	343	351	337	342	341	342
NONDURABLE GOODS	5,994	6,016	6,006	5,994	6,071	6,103	6,122	6,148	6,122	6,116	6,091	6,113	6,128
Food and kindred products	1,226	1,206	1,214	1,216	1,217	1,235	1,241	1,226	1,213	1,214	1,187	1,207	1,209
Tobacco manufactures	66	67	67	68	67	67	67	67	64	67	68	69	72
Textile mill products	837	843	842	852	860	861	867	878	874	873	872	874	874
Apparel and other textile products	1,213	1,225	1,214	1,206	1,221	1,223	1,226	1,242	1,238	1,233	1,234	1,236	1,238
Paper and allied products	542	545	549	551	556	558	557	558	557	554	554	554	552
Printing and publishing	677	679	679	681	687	690	690	691	691	690	689	685	683
Chemicals and allied products	599	606	603	606	610	613	616	619	620	619	619	621	623
Petroleum and coal products	118	117	118	118	118	119	119	119	118	118	118	118	118
Rubber and plastics products, nec	441	443	434	412	450	453	454	459	457	459	460	462	463
Leather and leather products	275	285	286	284	285	284	285	289	290	289	290	287	296

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

p = preliminary.

Advertisement on page 69 omitted.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-7: Employees on nonagricultural payrolls

(In thousands)

	State and area	TOTAL			Mining			Contract construction			Manufacturing		
		July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969
1	ALABAMA	1,008.9	1,008.6	1,008.3	8.5	8.5	8.3	56.1	54.3	58.7	322.4	321.0	328.6
2	Birmingham	260.7	260.8	258.8	5.6	5.6	5.4	16.5	16.4	16.0	71.8	72.1	73.2
3	Huntsville	76.7	77.1	77.7	(1)	(1)	(1)	3.0	3.0	3.3	13.1	13.0	12.1
4	Mobile	105.7	107.3	105.7	(1)	(1)	(1)	6.4	6.7	6.9	26.0	25.7	25.8
5	Montgomery	70.1	70.0	69.8	(1)	(1)	(1)	5.4	5.3	6.2	10.9	11.0	10.7
6	Tuscaloosa	36.5	35.4	36.0	(1)	(1)	(1)	2.7	2.3	2.7	10.3	9.4	10.4
7	ALASKA	99.2	96.0	96.1	2.6	2.5	3.7	8.9	8.8	8.3	13.3	11.5	12.7
8	ARIZONA	536.4	539.7	511.9	20.6	20.6	18.7	31.3	32.0	33.5	90.1	91.5	93.6
9	Phoenix	316.2	317.2	303.1	.2	.2	.2	17.5	17.8	18.6	69.4	70.7	74.4
10	Tucson	103.5	104.5	97.0	6.5	6.5	5.6	8.9	9.0	9.4	9.5	9.5	8.4
11	ARKANSAS	535.6	537.5	540.4	4.3	4.2	4.6	30.0	29.5	31.9	165.9	166.1	172.2
12	Fayetteville	25.3	25.5	25.5	(1)	(1)	(1)	1.3	1.2	1.4	7.6	7.9	8.0
13	Fort Smith	45.0	45.5	45.4	.5	.5	.5	3.6	3.6	3.1	16.0	16.7	16.7
14	Little Rock-North Little Rock	124.3	124.9	125.1	(1)	(1)	(1)	9.7	9.3	9.7	26.6	27.3	28.3
15	Pine Bluff	24.0	23.9	24.8	(1)	(1)	(1)	1.1	1.1	1.4	5.5	5.5	5.8
16	CALIFORNIA	7,014.6	7,052.6	6,955.9	32.3	32.0	33.3	308.2	311.2	307.0	1,566.7	1,564.9	1,670.0
17	Anaheim-Santa Ana-Garden Grove	417.9	421.7	405.4	2.0	2.0	2.1	23.2	23.4	21.4	118.1	119.8	129.8
18	Bakersfield	93.2	93.5	93.6	6.9	6.8	7.1	4.5	4.4	5.9	8.6	8.6	8.5
19	Fresno	118.8	118.3	116.8	.6	.6	.7	5.0	4.9	5.4	17.8	17.7	18.1
20	Los Angeles-Long Beach	2,903.1	2,917.1	2,896.0	11.3	11.3	12.1	107.0	110.0	107.1	811.7	816.5	878.7
21	Modesto-Turlock	54.0	52.3	54.5	.1	.1	.1	3.1	3.2	3.3	14.5	12.2	14.6
22	Oxnard-Ventura	91.1	92.0	90.3	1.9	1.9	2.0	4.3	4.2	4.2	13.0	13.3	14.3
23	Sacramento	259.4	261.8	256.2	.2	.2	.2	11.6	11.3	11.1	22.4	22.3	24.1
24	Salinas-Monterey	64.0	63.2	62.2	.5	.5	.4	2.5	2.5	2.8	7.7	7.3	7.2
25	San Bernardino-Riverside-Ontario	293.0	297.2	285.4	2.4	2.4	2.3	14.3	14.3	13.8	52.9	52.0	53.8
26	San Diego	383.3	384.5	374.2	.5	.5	.5	21.2	21.1	20.9	67.0	66.7	69.2
27	San Francisco-Oakland	1,270.8	1,273.6	1,266.2	1.8	1.7	1.7	62.9	63.2	63.9	199.6	199.8	210.3
28	San Jose	376.0	376.8	374.5	.2	.1	.1	18.5	18.2	18.5	125.1	121.9	132.6
29	Santa Barbara	80.6	82.2	78.8	1.0	1.0	1.0	4.2	4.2	4.6	10.0	10.2	10.3
30	Santa Rosa	50.1	50.4	49.6	.4	.4	.4	2.3	2.3	2.7	6.8	6.8	7.1
31	Stockton	87.3	89.9	88.2	.1	.1	.1	3.3	3.2	3.6	16.4	16.3	17.2
32	Vallejo-Napa	68.1	68.5	68.4	.2	.2	.2	2.5	2.4	2.6	7.6	7.0	7.8
33	COLORADO	(*)	733.2	714.9	(*)	14.1	13.3	(*)	41.6	40.5	(*)	114.3	116.3
34	Denver	(*)	472.9	460.1	(*)	4.6	4.6	(*)	29.1	26.8	(*)	82.6	83.7
35	CONNECTICUT	1,192.4	1,206.5	1,196.7	(2)	(2)	(2)	62.2	61.4	61.8	445.0	453.9	472.8
36	Bridgeport	153.1	151.0	157.8	(2)	(2)	(2)	7.1	6.7	6.7	69.0	66.6	77.1
37	Hartford	325.7	328.1	319.3	(2)	(2)	(2)	16.7	16.4	15.6	103.5	104.0	106.6
38	New Britain	45.3	46.6	46.5	(2)	(2)	(2)	2.2	2.0	2.4	23.5	24.4	25.0
39	New Haven	156.5	159.6	155.7	(2)	(2)	(2)	8.6	8.5	8.4	42.5	44.2	45.1
40	Stamford	84.7	84.3	81.9	(2)	(2)	(2)	4.3	4.1	4.1	28.6	28.4	28.4
41	Waterbury	77.2	78.3	77.4	(2)	(2)	(2)	3.8	3.7	3.8	36.3	36.9	38.6
42	DELAWARE	211.3	214.4	206.9	(1)	(1)	(1)	14.6	14.7	12.3	72.4	72.7	71.1
43	Wilmington	192.0	194.3	186.5	(1)	(1)	(1)	13.3	13.6	11.5	70.0	70.0	68.1
44	DISTRICT OF COLUMBIA ³	698.5	694.7	697.4	(1)	(1)	(1)	18.2	17.2	19.5	20.2	20.0	20.7
45	Washington SMSA	1,156.3	1,152.3	1,142.9	(1)	(1)	(1)	71.3	69.2	73.0	45.5	45.3	45.9
46	FLORIDA	2,091.1	2,144.7	2,024.1	8.0	7.8	8.2	169.1	168.8	170.7	315.2	322.6	323.1
47	Fort Lauderdale-Hollywood	164.9	169.0	162.6	(1)	(1)	(1)	24.0	24.8	27.9	19.2	19.9	20.5
48	Jacksonville	189.6	191.9	188.1	(1)	(1)	(1)	13.2	13.2	13.2	24.3	24.1	24.7
49	Miami	490.8	496.6	475.2	(1)	(1)	(1)	33.3	32.9	34.0	77.3	78.4	77.2
50	Orlando	133.2	135.7	127.7	(1)	(1)	(1)	14.3	14.1	11.9	19.3	20.2	22.0
51	Pensacola	66.6	66.5	66.5	(1)	(1)	(1)	5.0	5.0	5.3	14.3	14.5	14.6
52	Tampa-St. Petersburg	298.2	302.7	287.4	(1)	(1)	(1)	24.7	24.8	22.5	52.6	52.7	52.7
53	West Palm Beach	106.2	107.1	99.5	(1)	(1)	(1)	12.0	12.2	11.8	20.5	20.5	18.3
54	GEORGIA	1,528.9	1,536.6	1,528.4	6.5	6.9	6.9	72.9	77.8	87.1	459.9	462.9	475.7
55	Atlanta	606.8	611.0	603.0	(1)	(1)	(1)	24.7	29.9	37.9	127.2	127.8	129.8

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			
July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	
58.1	58.1	56.5	188.4	189.5	183.2	42.6	42.4	41.7	127.8	128.3	128.7	205.0	206.5	202.6	1
18.8	18.8	18.7	59.5	59.7	58.7	17.8	17.8	17.4	36.7	36.7	35.5	34.0	33.7	33.9	2
1.9	1.9	1.9	12.1	12.1	12.2	2.0	2.0	2.0	15.8	15.9	17.0	28.8	29.2	29.2	3
11.1	10.9	10.6	25.0	25.9	25.1	5.1	5.0	5.0	15.9	16.0	16.2	16.2	17.1	16.1	4
4.5	4.5	4.5	15.0	15.2	15.0	4.8	4.7	4.5	10.7	10.7	10.6	18.8	18.6	18.3	5
1.6	1.6	1.5	6.0	6.0	6.0	1.2	1.1	1.2	3.5	3.4	3.3	11.2	11.6	10.9	6
8.9	9.0	9.1	14.8	14.9	14.0	3.0	2.9	2.7	11.6	11.3	11.2	36.1	35.1	34.4	7
30.6	30.3	28.4	126.8	127.5	114.8	30.1	30.0	26.8	92.2	92.0	84.8	114.7	115.8	111.3	8
18.1	17.9	16.5	81.5	81.7	73.0	22.2	22.1	19.9	52.3	52.3	47.9	55.0	54.5	52.6	9
6.0	6.0	5.6	23.7	23.7	20.8	4.8	4.7	4.1	18.6	18.5	17.7	25.5	26.6	25.4	10
31.7	32.0	32.2	107.1	107.7	105.2	21.5	21.4	21.0	75.1	75.3	73.0	100.0	101.3	100.3	11
2.3	2.2	2.2	5.0	5.0	4.6	.6	.6	.6	3.4	3.3	3.3	5.1	5.3	5.4	12
2.8	2.8	2.7	8.8	8.7	9.0	1.4	1.4	1.4	6.5	6.5	6.6	5.4	5.3	5.4	13
9.6	9.5	9.4	26.6	26.7	26.5	8.9	8.9	8.6	18.6	18.6	18.7	24.3	24.6	23.9	14
3.3	3.3	3.1	4.6	4.6	4.6	.9	.9	.9	3.3	3.3	3.4	5.3	5.2	5.6	15
478.6	471.7	471.1	1,562.8	1,556.0	1,507.6	383.4	380.8	369.3	1,295.4	1,281.2	1,238.9	1,387.2	1,454.8	1,358.7	16
14.4	14.0	12.9	103.4	102.6	93.0	20.8	20.7	19.3	72.4	71.0	66.6	63.6	68.2	60.3	17
6.8	6.7	6.7	21.9	21.8	21.6	3.6	3.6	3.5	15.1	15.3	14.6	25.8	26.3	25.7	18
8.4	8.0	8.2	33.0	31.2	32.9	5.4	5.4	5.3	22.1	21.4	21.2	26.5	29.1	25.0	19
182.9	181.6	178.9	649.6	648.0	626.9	172.1	170.3	164.6	558.8	550.1	535.4	409.7	429.3	392.3	20
2.8	2.8	2.8	12.1	11.5	11.7	1.5	1.5	1.5	10.1	10.0	9.8	9.8	11.0	10.7	21
4.3	4.4	4.2	21.1	21.2	19.7	3.3	3.3	3.1	14.8	14.8	14.2	28.4	28.9	28.6	22
18.6	18.3	18.3	53.3	52.6	52.7	10.3	10.2	10.3	37.6	37.3	36.3	105.4	109.6	103.2	23
4.2	4.1	4.1	16.8	16.5	16.8	2.4	2.4	2.4	12.6	12.2	11.9	17.3	17.7	16.6	24
17.8	17.6	17.9	67.1	67.4	63.8	10.3	10.2	9.8	54.5	55.6	51.8	73.7	77.7	72.2	25
21.2	20.7	20.5	85.5	84.8	81.1	18.3	18.1	17.3	75.0	73.6	71.0	94.6	99.0	93.7	26
136.2	134.7	137.9	275.5	274.0	269.2	98.2	97.7	96.7	226.4	224.5	217.9	270.2	278.0	268.6	27
17.1	16.6	16.1	70.3	71.5	67.0	13.5	13.5	13.2	73.6	73.6	72.1	57.7	61.4	54.9	28
3.7	3.7	3.6	17.9	17.8	17.2	3.2	3.2	3.1	20.4	20.2	19.8	20.2	21.9	19.2	29
2.7	2.7	2.8	12.4	12.2	12.2	3.2	3.2	3.1	9.3	9.1	8.9	13.0	13.7	12.4	30
6.8	6.6	6.7	19.5	20.8	19.2	3.0	3.0	3.0	14.4	15.4	14.0	23.9	24.6	24.5	31
3.7	3.6	3.8	12.1	11.9	12.0	1.9	1.9	1.9	10.5	10.7	10.1	29.6	30.8	30.0	32
(*)	51.8	52.0	(*)	171.6	169.8	(*)	38.4	37.1	(*)	127.7	127.0	(*)	173.7	158.9	33
(*)	36.0	36.2	(*)	116.3	113.8	(*)	29.3	28.5	(*)	85.8	84.1	(*)	89.2	82.4	34
53.6	55.0	52.6	225.7	227.9	217.5	73.1	72.5	70.5	183.1	182.5	178.7	149.7	153.4	142.9	35
6.5	6.6	6.4	30.1	30.6	28.3	4.8	4.8	4.6	21.6	21.7	21.0	14.0	14.0	13.8	36
11.7	12.0	11.5	60.8	62.6	59.9	42.7	42.4	41.0	46.1	46.2	44.7	44.3	44.6	40.1	37
1.6	1.7	1.5	7.1	7.4	7.0	1.2	1.2	1.1	5.2	5.3	5.1	4.6	4.7	4.4	38
13.8	13.8	13.4	31.7	31.8	30.8	8.3	8.2	8.3	33.0	33.0	31.3	18.7	20.0	18.4	39
3.4	3.4	3.1	17.8	17.9	16.7	4.6	4.5	4.3	18.2	17.9	17.6	8.0	8.0	7.7	40
3.2	3.3	3.2	13.0	13.1	11.4	2.3	2.3	2.1	10.8	10.6	10.4	7.9	8.3	7.9	41
10.9	10.9	11.0	42.8	43.4	43.8	9.3	9.1	8.8	30.1	30.5	31.1	31.2	33.1	28.8	42
9.6	9.6	9.7	36.4	37.2	36.5	8.2	8.0	7.9	27.8	28.3	28.3	26.7	27.6	24.5	43
32.4	32.1	31.5	85.8	85.3	85.2	33.0	32.8	32.2	143.6	138.5	139.6	365.3	368.8	368.7	44
62.8	62.2	60.6	227.6	226.8	220.6	66.8	66.2	64.9	252.7	247.8	247.0	429.6	434.8	430.9	45
161.5	161.5	148.7	549.4	552.8	517.7	131.9	130.7	125.8	394.5	393.1	383.6	361.5	407.4	346.3	46
10.4	10.1	7.9	45.4	45.5	43.2	11.3	11.2	10.5	32.1	32.1	31.5	22.5	25.4	21.1	47
21.4	21.4	20.5	51.8	51.9	51.5	18.7	18.6	17.7	28.5	28.6	28.3	31.7	34.1	32.2	48
56.3	55.5	54.8	131.2	131.4	125.6	32.6	32.1	31.9	109.6	108.7	100.8	50.5	57.6	50.9	49
8.5	8.5	7.9	37.3	38.1	35.4	9.5	9.3	8.9	23.3	23.3	22.0	21.0	22.2	19.6	50
3.6	3.5	3.4	15.0	14.8	14.1	2.6	2.6	2.6	8.6	8.7	8.6	17.5	17.4	17.9	51
21.1	21.4	20.3	86.6	86.7	82.1	17.9	17.8	17.4	54.4	54.9	52.8	40.9	44.4	39.6	52
5.3	5.2	4.6	26.4	26.9	24.9	6.9	7.1	6.4	19.9	19.8	18.8	15.2	15.4	14.7	53
110.4	109.2	104.8	326.1	326.3	317.9	75.2	74.9	72.8	180.1	180.3	177.6	297.8	298.3	285.6	54
61.2	60.7	57.5	165.7	165.5	157.7	43.0	42.8	41.2	89.6	89.4	87.8	95.4	94.9	91.1	55

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-7: Employees on nonagricultural payrolls

(In thousands)

	State and area	TOTAL			Mining			Contract construction			Manufacturing		
		July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969
GEORGIA (continued)													
1	Augusta	36.7	86.6	88.3	(1)	(1)	(1)	6.1	5.8	5.8	29.4	29.5	31.2
2	Columbus	70.2	69.9	71.2	(1)	(1)	(1)	4.6	4.7	4.5	18.8	19.0	20.0
3	Macon	77.1	77.5	79.6	(1)	(1)	(1)	5.3	5.4	4.8	12.9	12.9	15.7
4	Savannah	67.7	68.5	68.9	(1)	(1)	(1)	4.6	4.4	4.3	16.2	16.7	17.6
HAWAII													
5	Honolulu	296.0	292.6	286.9	(1)	(1)	(1)	23.9	23.9	24.0	31.7	29.6	32.3
6	Honolulu	252.3	249.8	244.7	(1)	(1)	(1)	21.3	21.2	21.5	23.8	22.4	23.9
IDAHO													
7	Boise	208.1	208.4	201.0	3.7	3.6	3.5	11.6	10.6	11.4	38.0	40.2	36.9
8	Boise	41.8	41.2	39.0	(1)	(1)	(1)	2.7	2.6	2.5	4.9	4.8	4.6
ILLINOIS													
9	Chicago ⁴	4,396.1	4,396.1	4,399.3	23.0	22.9	24.2	209.5	201.7	213.5	1,351.1	1,369.3	1,410.0
10	Chicago	(*)	3,035.7	3,065.6	(*)	4.7	5.4	(*)	133.4	141.5	(*)	954.6	987.5
11	Chicago-Northwestern Indiana	(*)	3,260.3	3,293.2	(*)	4.8	5.4	(*)	145.2	157.6	(*)	1,064.2	1,098.5
12	Davenport-Rock Island-Moline	(*)	131.8	133.3	(*)	(2)	(2)	(*)	5.9	6.6	(*)	43.0	44.6
13	Peoria	(*)	132.9	128.1	(*)	(2)	(2)	(*)	8.5	7.0	(*)	49.3	47.4
14	Rockford	(*)	110.7	109.4	(*)	(2)	(2)	(*)	3.7	5.5	(*)	54.9	54.0
INDIANA													
15	Evansville	1,853.3	1,869.7	1,877.2	7.5	7.5	7.7	89.0	87.8	96.7	710.5	716.2	753.3
16	Evansville	88.4	87.6	90.1	1.6	1.7	1.6	2.8	1.8	4.7	34.8	34.8	35.1
17	Fort Wayne	123.8	121.9	121.5	(1)	(1)	(1)	6.1	6.0	6.5	46.5	44.6	47.4
18	Gary-Hammond-East Chicago	224.5	224.6	227.6	(1)	(1)	(1)	11.6	11.8	16.1	110.3	109.6	111.0
19	Indianapolis	431.2	432.8	434.1	(1)	(1)	(1)	23.2	23.1	23.5	132.7	132.5	139.9
20	Muncie	47.3	47.5	45.9	(1)	(1)	(1)	2.0	1.9	2.2	18.7	18.9	19.0
21	South Bend	94.8	94.5	98.8	(1)	(1)	(1)	4.5	4.3	4.6	33.1	33.1	36.5
22	Terre Haute	53.6	54.0	53.5	1.1	1.1	1.0	2.7	2.5	2.7	15.6	15.4	15.4
IOWA													
23	Cedar Rapids	887.7	894.4	883.6	3.5	3.5	3.4	46.8	44.7	47.7	212.5	212.4	224.5
24	Cedar Rapids	64.5	63.8	66.9	(1)	(1)	(1)	2.6	2.1	3.1	25.0	24.9	27.7
25	Des Moines	129.7	132.0	129.1	(1)	(1)	(1)	7.1	6.7	6.9	25.1	26.6	26.4
26	Dubuque	33.4	33.7	33.0	(1)	(1)	(1)	1.9	1.8	1.7	13.9	14.1	14.1
27	Sioux City	41.1	41.4	41.3	(1)	(1)	(1)	1.3	1.3	2.4	9.6	9.9	9.4
28	Waterloo	48.8	48.5	49.3	(1)	(1)	(1)	2.8	2.5	2.4	18.2	17.2	19.7
KANSAS													
29	Topeka	672.2	679.4	684.1	11.6	11.5	12.1	37.0	35.9	39.6	133.3	135.9	148.4
30	Topeka	63.3	63.0	61.3	.1	.1	.1	3.7	3.3	3.7	9.7	9.6	9.5
31	Wichita	136.6	138.2	149.1	1.9	2.0	2.4	7.1	7.1	7.7	38.3	39.0	49.6
KENTUCKY													
32	Lexington	903.5	911.8	902.4	28.3	28.3	27.8	50.3	49.9	63.0	245.8	249.6	250.7
33	Lexington	77.8	77.3	77.8	(1)	(1)	(1)	6.0	5.9	7.1	14.7	14.8	16.2
34	Louisville	339.9	338.4	336.8	(1)	(1)	(1)	17.7	16.6	18.3	116.2	116.5	122.8
LOUISIANA													
36	Baton Rouge	1,043.7	1,045.0	1,054.3	51.3	51.4	52.9	79.2	79.1	86.3	178.1	178.6	183.2
37	Baton Rouge	101.9	100.9	103.8	.7	.7	.5	13.3	12.7	12.9	17.7	18.0	18.7
38	Lake Charles	40.9	40.7	42.2	1.6	1.6	1.5	5.1	5.2	6.4	9.1	9.1	9.1
39	Monroe	37.7	37.6	38.1	.4	.4	.4	3.5	3.5	3.8	6.5	6.4	6.8
40	New Orleans	374.1	374.3	374.0	14.6	14.8	14.7	21.8	21.8	22.2	54.6	54.9	57.7
40	Shreveport	93.7	93.4	94.2	3.9	3.9	4.1	6.3	6.2	6.4	16.5	16.5	17.4
MAINE													
41	Lewiston-Auburn	334.1	338.9	337.3	(1)	(1)	(1)	17.5	17.1	18.4	108.4	112.6	116.1
42	Lewiston-Auburn	28.3	29.0	29.0	(1)	(1)	(1)	1.5	1.5	1.6	12.7	13.2	13.7
43	Portland	65.4	65.4	64.2	(1)	(1)	(1)	3.7	3.7	3.4	14.4	14.4	15.6
MARYLAND ³													
44	Baltimore	1,309.0	1,317.2	1,288.2	1.8	1.8	1.8	90.8	88.2	91.8	272.2	274.3	283.6
45	Baltimore	811.6	817.0	805.1	.3	.3	.3	45.4	43.9	45.8	197.2	200.1	207.1
MASSACHUSETTS													
46	Boston	2,253.5	2,282.9	2,265.0	(1)	(1)	(1)	101.9	101.5	102.6	630.9	653.7	671.7
47	Boston	1,292.6	1,307.6	1,286.8	(1)	(1)	(1)	54.1	54.1	54.6	274.2	283.8	294.0
48	Brockton	50.7	51.6	49.4	-	-	-	2.4	2.2	2.2	15.9	16.4	16.6
49	Fall River	47.3	48.7	46.3	(1)	(1)	(1)	(1)	(1)	(1)	21.9	23.0	21.7
50	Lawrence-Haverhill	80.2	81.8	80.8	(1)	(1)	(1)	2.2	2.2	2.2	37.5	38.4	38.3
51	Lowell	53.7	55.0	53.6	(1)	(1)	(1)	3.1	3.0	3.0	20.0	20.6	20.8
52	New Bedford	53.2	55.2	54.7	(1)	(1)	(1)	1.9	1.8	1.9	24.0	26.0	26.0
53	Springfield-Chicopee-Holyoke	194.4	197.3	196.9	(1)	(1)	(1)	9.0	8.5	8.5	66.5	69.4	72.5
54	Worcester	129.9	131.5	131.4	(1)	(1)	(1)	6.3	5.9	5.7	45.2	46.3	48.9

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			
July 1970	June 1970	July 1969	July 1970	June 1970	July 1969	July 1970	June 1970	July 1969	July 1970	June 1970	July 1969	July 1970	June 1970	July 1969	
4.1	4.1	4.0	14.6	14.6	14.8	3.2	3.2	3.2	9.7	9.8	9.8	19.6	19.4	19.5	1
3.4	3.3	3.4	13.7	13.8	13.4	4.1	4.1	3.8	8.5	8.7	8.7	17.1	16.3	17.4	2
3.6	3.5	3.5	14.5	14.6	14.7	4.3	4.2	4.0	9.4	9.3	8.9	27.1	27.6	28.0	3
7.1	6.8	7.5	15.2	15.4	15.6	3.2	3.2	3.2	9.4	9.6	9.4	12.0	12.4	11.3	4
24.5	24.2	23.5	66.8	66.5	63.2	18.5	18.4	17.3	57.1	56.7	54.2	73.5	73.3	72.4	5
20.7	20.5	19.9	57.3	57.0	54.0	17.2	17.1	15.9	47.8	47.4	45.2	64.2	64.2	64.3	6
14.4	14.5	14.2	49.6	49.2	48.0	7.9	8.0	7.7	32.7	32.5	31.8	50.2	49.8	47.5	7
3.3	3.3	3.2	11.4	11.3	10.7	2.8	2.8	2.7	6.6	6.6	6.1	10.1	9.8	9.2	8
298.7	264.3	292.4	958.0	964.6	943.7	241.4	238.9	233.5	695.7	694.3	681.9	618.4	639.9	600.2	9
(*)	190.5	212.2	(*)	679.6	671.4	(*)	186.0	182.6	(*)	516.6	506.8	(*)	370.2	358.3	10
(*)	203.9	226.3	(*)	717.9	708.7	(*)	192.3	188.8	(*)	539.0	528.8	(*)	392.9	379.1	11
(*)	6.9	7.1	(*)	29.5	29.0	(*)	5.2	5.2	(*)	18.7	17.8	(*)	22.7	23.1	12
(*)	7.3	7.3	(*)	28.3	27.9	(*)	5.4	5.3	(*)	18.9	18.6	(*)	15.1	14.6	13
(*)	3.5	3.5	(*)	20.7	20.7	(*)	3.2	3.2	(*)	14.0	13.6	(*)	10.5	8.9	14
101.6	101.4	100.9	369.4	371.1	363.4	76.5	76.3	75.4	208.4	210.2	203.2	290.4	299.1	276.7	15
5.2	5.2	5.3	18.9	18.9	19.1	3.3	3.3	3.3	13.5	13.4	12.9	8.3	8.5	8.1	16
8.7	8.5	8.5	28.1	28.1	26.6	6.7	6.5	6.4	16.1	15.9	15.2	11.6	12.3	10.9	17
13.9	13.4	14.1	38.3	38.3	37.3	6.4	6.3	6.2	22.6	22.5	22.1	21.4	22.7	20.8	18
28.7	28.4	28.2	95.8	95.6	95.2	30.0	29.5	29.1	55.1	55.7	53.0	65.7	68.0	65.2	19
2.5	2.4	2.6	9.0	9.0	8.7	1.4	1.4	1.4	5.3	5.3	5.2	8.4	8.6	8.8	20
5.0	5.0	5.1	20.5	20.5	21.1	4.9	4.9	4.9	16.3	16.1	16.2	10.5	10.6	10.4	21
4.1	4.1	4.2	12.8	12.8	13.2	1.7	1.7	1.7	6.4	6.6	6.5	9.2	9.8	8.8	22
51.8	52.0	52.4	207.7	210.4	204.4	43.2	43.1	41.7	143.3	146.0	140.6	178.7	182.1	169.0	23
3.2	3.2	3.2	13.4	13.5	13.4	3.2	3.1	3.1	9.8	9.8	9.5	7.4	7.2	6.9	24
9.4	9.4	9.2	31.8	32.2	32.9	15.8	15.7	14.9	21.7	22.0	21.0	18.7	19.5	17.7	25
1.7	1.7	1.7	6.7	6.7	6.7	.9	.9	.9	5.7	5.9	5.6	2.6	2.5	2.3	26
3.3	3.3	3.3	11.6	11.8	11.5	2.1	2.1	2.0	7.5	7.7	7.4	5.6	5.3	5.3	27
2.4	2.4	2.5	9.8	9.9	9.6	1.5	1.5	1.5	7.4	7.4	7.4	6.6	7.5	6.1	28
52.5	52.6	52.6	160.5	160.4	158.3	30.7	30.4	30.3	103.0	103.7	100.2	143.6	149.0	142.6	29
7.3	7.1	7.5	13.2	13.2	12.9	4.0	4.0	3.9	10.1	10.3	9.8	15.3	15.7	14.2	30
8.0	7.9	8.0	31.7	31.7	33.0	6.6	6.6	6.7	25.3	25.2	24.3	17.9	18.7	17.5	31
60.8	60.8	61.2	187.0	185.6	181.1	35.9	35.9	35.5	127.7	128.6	124.1	167.7	173.1	159.0	32
4.3	4.3	4.3	14.8	14.6	14.6	3.7	3.8	3.8	13.1	12.5	12.2	21.2	21.4	19.6	33
23.5	23.4	23.2	72.0	71.9	69.2	17.5	17.4	17.0	49.6	49.9	47.0	43.4	42.7	39.3	34
96.9	95.4	95.9	227.1	227.3	229.1	50.0	50.0	49.3	153.9	152.7	155.7	207.2	210.5	201.9	35
5.4	4.7	5.4	21.0	20.9	22.4	5.4	5.4	5.7	14.7	14.9	14.3	23.8	23.7	23.9	36
3.2	2.9	3.1	8.2	8.2	8.4	1.5	1.5	1.5	5.9	5.7	6.0	6.3	6.5	6.2	37
2.5	2.5	2.4	10.1	10.2	10.0	2.4	2.4	2.4	5.2	5.1	5.2	7.1	7.1	7.1	38
47.4	47.2	47.8	88.9	89.2	88.9	22.4	22.5	22.9	64.9	65.3	63.6	59.5	58.7	56.2	39
9.6	9.6	9.6	23.3	23.4	23.2	4.8	4.8	4.8	14.6	14.5	14.6	14.7	14.5	14.1	40
17.9	17.6	17.7	68.3	67.9	66.4	12.4	12.3	11.7	45.1	43.5	44.6	64.5	67.9	62.4	41
.9	.9	.9	6.2	6.3	6.1	.9	.9	.9	4.2	4.2	4.0	1.9	2.0	1.8	42
5.4	5.3	5.4	17.8	17.7	16.9	5.5	5.5	5.2	11.6	11.3	11.2	7.0	7.5	6.5	43
82.1	81.5	80.0	307.8	308.6	293.7	70.8	69.6	67.9	240.0	238.9	232.4	243.5	254.3	237.0	44
57.6	57.2	56.3	174.8	175.3	169.5	44.7	44.3	43.1	139.2	139.0	134.9	152.4	156.9	148.1	45
119.5	119.5	114.1	484.5	493.1	479.7	132.1	130.7	127.9	480.7	479.0	468.4	303.9	305.4	300.6	46
79.3	78.6	73.6	288.2	294.3	285.2	95.3	94.9	92.0	323.6	324.3	310.4	177.9	177.6	177.0	47
3.7	3.7	3.2	13.0	13.2	12.1	1.4	1.5	1.4	6.7	6.8	6.3	7.6	7.8	7.6	48
2.0	1.9	1.9	9.2	9.5	9.1	(1)	(1)	(1)	9.9	9.9	9.3	4.3	4.4	4.3	49
2.4	2.4	2.4	14.5	15.0	14.5	2.4	2.4	2.4	10.0	9.3	10.4	11.2	12.1	10.6	50
2.0	2.0	2.0	11.1	11.6	10.9	1.5	1.4	1.4	9.1	9.4	8.8	6.9	7.0	6.7	51
2.7	2.8	2.6	10.1	10.2	9.8	(1)	(1)	(1)	9.7	9.6	9.7	4.8	4.8	4.7	52
8.4	8.4	8.2	40.3	40.5	39.5	9.4	9.4	9.2	35.3	35.7	34.2	25.5	25.4	24.8	53
6.3	6.4	6.6	25.9	26.5	25.3	7.3	7.3	7.1	22.3	22.7	21.8	16.6	16.4	16.0	54

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-7: Employees on nonagricultural payrolls

(In thousands)

	State and area	TOTAL			Mining			Contract construction			Manufacturing		
		July 1970 ^P	June 1970	July 1969	July ^P 1970	June 1970	July 1969	July ^P 1970	June 1970	July 1969	July ^P 1970	June 1970	July 1969
1	MICHIGAN	2,919.1	3,022.7	3,001.9	13.5	13.3	13.3	100.7	97.3	120.5	1,038.6	1,105.3	1,124.7
2	Ann Arbor	98.5	103.1	101.7	(1)	(1)	(1)	3.3	3.3	3.6	29.9	34.2	36.7
3	Battle Creek	58.6	58.5	60.4	(1)	(1)	(1)	2.2	2.2	2.4	25.7	25.5	27.4
4	Bay City	29.5	28.6	30.6	(1)	(1)	(1)	1.1	.7	1.4	11.1	10.6	12.4
5	Detroit	1,447.0	1,500.0	1,498.7	1.2	1.1	1.1	47.6	48.4	61.5	540.6	568.0	575.3
6	Flint	132.9	157.0	156.5	(1)	(1)	(1)	6.9	5.5	7.0	60.1	83.6	80.0
7	Grand Rapids	181.1	183.6	187.0	(1)	(1)	(1)	8.2	7.8	10.6	69.8	71.2	73.4
8	Jackson	46.1	46.1	47.1	(1)	(1)	(1)	2.4	2.3	2.4	18.3	18.2	19.6
9	Kalamazoo	69.9	70.8	71.2	(1)	(1)	(1)	3.4	3.3	3.6	28.0	28.6	30.0
10	Lansing	122.3	133.3	124.4	(1)	(1)	(1)	4.6	4.6	6.6	37.8	39.0	38.5
11	Muskegon-Muskegon Heights	50.9	51.2	51.3	(1)	(1)	(1)	1.7	1.6	2.2	26.1	26.5	26.6
12	Saginaw	66.9	72.7	72.7	(1)	(1)	(1)	3.4	2.2	4.4	25.4	32.5	32.1
13	MINNESOTA	1,311.1	1,315.5	1,318.4	15.8	15.3	15.7	70.8	64.8	77.6	322.9	320.5	338.3
14	Duluth-Superior	57.6	57.1	58.0	(1)	(1)	(1)	2.8	2.5	2.8	10.5	10.5	10.7
15	Minneapolis-St. Paul	786.8	791.5	791.5	(1)	(1)	(1)	48.1	39.5	44.5	211.8	214.7	224.8
16	MISSISSIPPI	575.2	574.8	569.1	6.0	6.0	6.1	38.2	37.1	37.2	179.7	179.6	182.2
17	Jackson	89.7	90.1	88.7	.7	.7	.7	5.8	5.6	6.2	13.3	13.4	14.5
18	MISSOURI	1,639.8	1,655.0	1,665.4	8.9	8.5	8.7	67.9	65.4	73.3	441.2	442.5	464.6
19	Kansas City	502.1	507.4	507.7	.6	.6	.5	13.5	14.1	18.5	128.9	129.6	133.7
20	St. Joseph	33.0	32.4	33.3	(2)	(2)	(2)	2.4	1.9	2.4	10.3	10.2	10.3
21	St. Louis	911.9	910.4	914.7	2.2	2.2	2.5	44.6	40.6	40.8	277.0	277.5	295.1
22	Springfield	56.8	56.1	55.2	.1	.1	.1	3.4	3.3	2.9	15.1	15.0	15.9
23	MONTANA	207.4	206.1	205.2	7.1	7.0	6.1	11.9	11.5	12.5	24.8	24.4	24.8
24	Billings	28.1	28.4	27.9	(1)	(1)	(1)	1.4	1.4	1.5	2.7	2.7	3.0
25	Great Falls	25.7	25.7	25.4	(1)	(1)	(1)	2.2	2.2	2.5	3.1	3.1	3.0
26	NEBRASKA	483.0	488.6	472.9	1.9	2.0	1.9	29.8	29.5	28.4	85.0	85.6	87.2
27	Lincoln	70.7	72.6	70.1	-	-	-	3.5	3.7	4.3	10.6	10.3	11.0
28	Omaha	211.3	211.7	204.1	(2)	(2)	(2)	13.0	12.4	12.1	39.9	40.5	38.6
29	NEVADA	200.4	200.5	196.5	4.3	4.3	4.1	11.2	11.7	10.9	8.2	8.2	7.8
30	Las Vegas	108.8	109.7	107.9	.2	.2	.2	6.7	7.1	6.3	4.1	4.1	4.0
31	Reno	57.3	56.7	53.1	.2	.2	.2	3.5	3.5	3.2	2.9	2.9	2.7
32	NEW HAMPSHIRE	272.7	267.0	272.1	.4	.4	.4	13.9	13.4	15.7	93.0	95.1	97.7
33	Manchester	49.9	50.5	49.3	(1)	(1)	(1)	2.9	2.9	3.0	16.3	16.9	16.9
34	NEW JERSEY	2,632.2	2,645.5	2,626.8	3.4	3.4	3.6	128.6	127.7	126.9	865.8	875.9	898.0
35	Atlantic City	70.4	67.2	71.9	-	-	-	3.9	4.1	3.7	10.8	10.7	11.6
36	Camden	248.9	252.9	248.2	.1	.1	.1	15.2	15.2	14.4	68.3	69.6	76.2
37	Jersey City	268.0	271.6	269.5	-	-	-	8.3	8.0	7.6	109.2	111.4	113.3
38	Newark	800.4	806.1	800.2	.9	1.0	1.0	33.7	33.3	35.6	248.7	252.1	258.2
39	Paterson-Clifton-Passaic	506.5	510.9	500.1	.4	.5	.4	23.8	23.5	23.6	187.0	189.3	192.2
40	Perth Amboy	276.3	280.2	269.1	.8	.8	.8	15.2	14.8	13.7	111.5	113.1	115.8
41	Trenton	133.9	133.4	132.7	(1)	(1)	(1)	4.7	4.6	3.6	40.8	40.8	41.8
42	NEW MEXICO	294.6	294.9	288.7	18.7	17.5	17.5	17.9	16.9	18.4	21.0	21.0	20.3
43	Albuquerque	106.3	107.6	104.1	(1)	(1)	(1)	7.6	6.9	7.2	9.1	9.1	8.6
44	NEW YORK	7,248.1	7,316.1	7,241.4	8.3	8.3	8.3	281.2	277.8	280.5	1,780.7	1,828.6	1,864.2
45	Albany-Schenectady-Troy	274.1	277.4	274.6	(1)	(1)	(1)	15.0	14.6	15.5	59.5	61.3	63.8
46	Binghamton	103.4	106.3	104.8	(1)	(1)	(1)	4.9	5.3	4.9	43.1	43.7	45.4
47	Buffalo	496.5	504.0	497.0	(1)	(1)	(1)	22.0	18.0	16.1	165.9	173.8	176.3
48	Elmira	38.8	39.6	37.8	(1)	(1)	(1)	2.1	2.1	2.0	15.5	15.8	14.7
49	Monroe County	301.6	302.2	309.1	(1)	(1)	(1)	8.2	7.1	14.9	133.1	133.7	136.1
50	Nassau and Suffolk Counties	725.4	733.1	704.4	(1)	(1)	(1)	43.5	43.0	41.2	148.8	152.8	162.2
51	New York-Northeastern New Jersey	(*)	6,842.7	6,726.5	(*)	5.0	4.9	(*)	255.5	250.0	(*)	1,723.9	1,753.9
52	New York SMSA	4,920.8	4,976.3	4,887.5	2.7	2.7	2.6	175.7	175.9	169.4	1,026.8	1,060.2	1,074.4
53	New York City	3,823.5	3,868.6	3,814.0	2.1	2.1	2.0	108.4	109.7	103.6	786.1	814.3	816.9
54	Rochester	342.1	342.1	349.5	(1)	(1)	(1)	9.7	8.3	17.2	145.7	145.8	148.9
55	Rockland County	61.5	60.8	59.7	(1)	(1)	(1)	4.0	3.6	4.2	15.3	15.4	16.3
56	Syracuse	222.4	227.9	228.3	(1)	(1)	(1)	10.6	11.7	12.9	62.7	64.2	68.5
57	Utica-Rome	115.1	116.9	117.3	(1)	(1)	(1)	4.1	3.9	4.2	40.6	41.6	43.6
58	Westchester County	310.4	313.9	309.5	(1)	(1)	(1)	19.8	19.6	20.5	76.6	77.6	79.0

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			
July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	
152.4	152.0	154.6	580.0	580.4	580.6	117.5	117.3	116.1	404.8	409.3	400.1	511.6	547.7	491.9	1
2.7	2.7	2.7	14.2	14.2	12.7	2.2	2.2	2.2	11.2	11.2	10.5	35.0	35.4	33.3	2
2.7	2.7	2.6	9.2	9.2	9.2	3.1	3.1	3.3	7.8	7.8	7.7	7.9	8.0	7.8	3
1.7	1.6	1.6	6.9	6.9	7.0	.8	.8	.8	3.8	3.8	3.7	4.1	4.2	3.8	4
80.1	81.2	80.6	289.7	292.4	290.5	68.9	69.0	67.0	213.0	214.8	215.3	206.0	224.9	207.3	5
5.3	5.7	6.1	21.0	20.6	23.6	4.3	4.2	4.2	16.3	16.6	16.7	19.0	20.7	18.8	6
9.9	9.8	10.1	42.0	43.3	41.9	7.3	7.3	7.6	26.3	26.5	26.3	17.6	17.7	17.1	7
4.3	4.3	4.3	8.6	8.6	8.4	1.4	1.4	1.4	5.1	5.1	5.0	6.2	6.3	6.1	8
2.3	2.3	2.5	13.3	13.3	13.1	2.2	2.2	2.2	9.2	9.2	8.9	11.6	11.8	11.0	9
3.4	3.5	3.2	18.9	20.2	20.8	5.2	5.2	5.0	16.7	16.9	14.8	35.6	43.9	35.4	10
2.7	2.7	2.8	8.2	8.2	8.1	1.3	1.3	1.3	5.5	5.5	5.3	5.5	5.5	4.9	11
4.7	4.7	4.6	13.3	13.2	13.1	2.8	2.8	2.7	9.0	9.0	8.7	8.3	8.2	7.3	12
86.9	90.4	89.8	313.3	315.6	307.0	65.3	65.0	63.8	210.7	211.8	207.3	225.4	232.0	218.8	13
8.0	7.5	8.3	13.3	13.4	13.7	2.0	2.0	2.0	11.3	11.2	10.8	9.7	10.0	9.7	14
54.4	58.1	59.0	186.3	188.7	184.2	48.5	48.3	47.2	138.9	140.7	134.4	98.8	101.4	97.2	15
31.3	31.2	30.1	107.4	107.2	104.6	20.8	20.7	19.9	68.2	66.9	67.4	123.6	126.2	121.5	16
5.6	5.6	5.7	22.3	21.9	20.7	7.0	7.0	6.7	15.2	15.3	15.0	19.8	20.6	19.1	17
125.8	126.7	127.4	368.9	371.1	376.1	90.6	89.7	90.6	259.4	259.1	257.3	277.1	292.0	267.4	18
51.3	51.4	51.1	124.5	124.5	123.9	33.4	33.3	32.6	82.0	82.3	80.6	67.9	71.6	66.8	19
2.1	2.1	2.1	7.7	7.7	7.9	1.3	1.3	1.3	4.8	4.7	4.8	4.4	4.5	4.5	20
68.8	69.1	68.9	195.0	195.4	192.1	48.5	47.9	48.0	151.2	152.5	148.4	124.6	125.2	118.9	21
4.4	4.3	4.4	14.7	13.6	13.1	2.1	2.1	2.4	9.3	9.2	9.1	7.7	8.5	7.3	22
17.3	17.5	18.1	48.7	48.2	49.0	8.0	8.0	8.0	34.6	34.2	34.3	55.0	55.3	52.4	23
2.7	2.7	2.8	8.9	8.9	8.9	1.5	1.5	1.5	6.0	6.0	5.7	4.9	5.2	4.5	24
2.1	2.1	2.1	6.5	6.5	6.5	1.4	1.4	1.4	5.0	5.0	4.8	5.4	5.4	5.1	25
37.8	37.9	37.7	122.4	123.5	117.5	29.8	29.8	28.4	80.3	81.3	77.9	95.9	99.0	93.8	26
5.0	5.1	5.2	14.7	14.8	14.5	5.5	5.5	5.2	11.8	11.7	10.8	19.6	21.4	19.0	27
21.3	21.3	21.1	53.2	53.4	51.2	17.1	17.1	16.3	37.1	37.9	35.5	29.6	29.0	29.3	28
14.1	14.1	13.7	39.3	38.7	36.4	7.5	7.5	7.3	79.1	78.3	80.7	36.7	37.7	35.6	29
7.4	7.5	6.9	21.3	21.2	19.6	3.8	3.7	3.6	49.2	49.5	51.8	16.1	16.4	15.5	30
4.9	4.9	4.7	12.7	12.6	11.5	3.1	3.1	3.0	20.5	19.5	18.6	9.5	10.0	9.2	31
11.5	11.6	10.8	52.5	51.8	50.0	11.3	11.1	10.4	53.8	46.4	52.5	36.3	37.2	34.6	32
3.7	3.6	3.4	11.8	11.8	11.5	3.0	3.0	2.8	8.1	8.2	7.8	4.1	4.1	3.9	33
182.8	180.9	179.8	538.9	541.8	529.3	122.8	121.2	116.7	427.6	422.8	417.3	362.3	371.8	355.2	34
3.9	3.9	3.7	21.2	18.9	21.5	3.0	2.9	2.9	17.0	16.0	17.9	10.6	10.7	10.6	35
13.8	13.7	13.3	58.6	59.6	54.9	9.2	9.2	8.9	38.8	39.2	38.1	44.9	46.3	42.3	36
37.0	37.6	37.0	43.5	44.6	41.3	10.1	9.8	9.6	30.2	30.7	31.5	29.7	29.5	29.2	37
62.6	62.5	62.8	153.3	155.6	150.8	58.7	57.7	55.2	139.8	139.1	136.4	102.7	104.8	100.2	38
25.9	26.2	25.5	121.8	123.8	114.8	19.1	18.6	18.1	76.6	76.6	75.7	51.9	52.4	49.8	39
14.4	14.0	13.5	52.8	54.6	49.9	5.8	5.8	5.7	32.0	31.7	30.0	43.8	45.4	39.7	40
7.0	6.7	6.9	21.0	21.0	20.2	5.0	4.9	4.7	27.7	27.9	27.6	27.7	27.5	27.9	41
20.1	20.1	19.7	61.8	61.7	60.4	12.7	12.8	11.6	55.4	55.6	56.4	87.0	89.3	84.4	42
6.8	6.7	6.4	25.8	25.9	25.4	6.6	6.5	6.4	25.9	26.0	25.7	24.5	26.5	24.4	43
517.6	517.8	508.1	1,445.1	1,461.2	1,437.2	605.5	607.5	608.9	1,389.0	1,384.4	1,355.2	1,220.7	1,230.6	1,178.6	44
15.9	15.7	15.8	54.0	54.4	52.6	11.1	11.0	10.9	46.3	46.5	45.5	72.1	73.8	70.4	45
4.6	4.7	4.6	17.8	18.2	17.3	3.2	3.2	3.1	12.2	12.0	12.1	17.7	19.3	17.3	46
33.4	33.6	33.9	101.0	101.7	101.9	19.7	19.5	19.2	77.6	77.2	75.5	76.9	80.3	74.1	47
1.7	1.7	1.6	7.4	7.6	7.7	1.1	1.1	1.0	6.0	5.9	5.9	5.1	5.3	4.9	48
10.8	10.6	11.9	52.5	53.9	53.5	11.7	11.5	11.1	49.9	49.9	47.4	35.5	35.5	34.2	49
32.7	34.2	30.0	188.0	188.5	179.7	32.2	31.8	30.4	138.1	136.2	128.7	142.0	146.5	132.2	50
(*)	536.0	523.1	(*)	1,396.6	1,355.3	(*)	611.7	611.8	(*)	1,296.6	1,258.6	(*)	1,017.4	968.9	51
395.5	396.4	384.3	1,005.0	1,018.2	998.6	516.1	520.0	523.2	1,012.2	1,018.8	985.0	786.8	784.1	749.9	52
340.5	339.4	333.6	739.9	751.5	741.4	467.7	472.2	477.0	795.8	805.2	779.2	582.9	574.2	560.4	53
12.6	12.3	13.5	59.8	61.4	60.9	12.5	12.4	11.9	54.0	53.9	51.7	47.8	48.0	45.4	54
3.1	3.2	3.0	10.9	10.8	10.3	1.9	1.8	1.8	10.4	10.0	10.0	16.0	16.0	14.1	55
14.3	14.1	14.5	49.5	50.2	48.7	12.5	12.0	11.6	35.8	36.4	36.0	36.9	39.2	36.1	56
5.6	5.6	5.4	18.7	18.8	18.5	4.7	4.7	4.6	15.4	15.0	14.9	25.9	27.3	26.0	57
19.2	19.6	17.7	66.1	67.4	67.1	14.3	14.1	14.0	68.5	68.1	67.9	45.9	47.5	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		
		July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969
1	NORTH CAROLINA	1,732.9	1,746.1	1,728.8	3.7	3.7	3.6	102.1	103.0	102.4	691.6	699.2	711.1
2	Asheville	-	-	-	-	-	-	-	-	-	18.9	19.1	20.0
3	Charlotte	177.4	178.3	176.6	(1)	(1)	(1)	11.8	12.3	13.2	41.3	41.2	42.3
4	Greensboro-Winston-Salem-High Point	255.1	257.3	256.9	(1)	(1)	(1)	14.8	14.8	14.6	109.7	110.3	113.6
5	Raleigh	-	-	-	-	-	-	-	-	-	13.7	14.3	14.1
6	NORTH DAKOTA	164.6	163.4	159.5	1.9	1.8	1.9	11.4	10.0	9.7	9.4	9.3	9.2
7	Fargo-Moorhead	41.6	41.9	40.1	(1)	(1)	(1)	3.2	2.9	3.4	2.9	2.9	2.9
8	OHIO	3,928.8	3,952.8	3,893.9	21.6	21.4	20.1	193.5	183.1	196.8	1,414.2	1,416.0	1,460.5
9	Akron	248.9	246.7	243.3	.3	.3	.3	10.5	10.2	10.6	99.5	94.6	99.2
10	Canton	137.9	139.0	138.1	.4	.4	.4	6.1	5.9	6.1	60.6	60.9	63.7
11	Cincinnati	513.7	518.0	506.3	.4	.4	.4	24.3	23.9	24.8	170.0	170.2	176.7
12	Cleveland	872.8	872.4	868.4	1.8	1.8	1.6	39.4	34.3	41.9	298.2	300.2	308.9
13	Columbus	380.0	387.2	369.9	.9	.9	.8	20.5	20.1	20.8	89.8	91.0	91.4
14	Dayton	334.7	338.6	335.4	.5	.5	.5	14.6	14.1	14.8	128.3	130.0	134.3
15	Toledo	244.7	249.9	238.8	.4	.4	.3	11.1	10.9	11.1	83.4	83.5	84.1
16	Youngstown-Warren	197.0	197.7	196.5	.3	.3	.3	10.7	10.3	10.4	86.0	85.6	89.9
17	OKLAHOMA	762.9	769.9	756.5	38.9	39.2	41.0	39.4	38.9	39.6	134.0	131.4	131.9
18	Oklahoma City	254.2	256.5	250.1	6.7	6.7	6.9	14.0	13.9	13.6	38.4	37.9	35.6
19	Tulsa	179.1	179.4	180.9	13.2	13.2	14.1	9.1	9.1	9.4	43.2	43.1	45.1
20	OREGON	707.6	717.3	714.0	1.5	1.4	1.5	30.1	28.9	36.9	174.7	173.3	187.0
21	Eugene	66.8	68.3	68.0	(1)	(1)	(1)	3.0	3.1	3.8	19.1	17.9	20.1
22	Portland	377.4	383.5	385.1	(1)	(1)	(1)	17.5	17.0	21.6	86.5	86.4	94.1
23	Salem	54.0	55.2	54.3	(1)	(1)	(1)	2.5	2.5	2.7	11.2	10.9	12.1
24	PENNSYLVANIA	4,366.6	4,407.4	4,405.8	40.4	40.7	38.9	221.7	215.2	222.5	1,524.4	1,537.5	1,594.5
25	Allentown-Bethlehem-Easton	217.1	220.4	215.5	.5	.5	.5	9.1	8.9	7.7	105.6	107.5	106.6
26	Altoona	48.8	49.0	48.8	(1)	(1)	(1)	2.2	2.1	2.2	16.0	16.1	16.1
27	Erie	98.9	100.4	97.9	(1)	(1)	(1)	4.9	4.8	5.0	43.3	44.8	44.0
28	Harrisburg	174.6	175.5	177.7	(1)	(1)	(1)	9.1	9.0	10.5	39.9	40.3	41.2
29	Johnstown	82.0	82.2	81.3	5.0	5.1	4.9	4.0	3.8	3.6	25.9	26.4	26.9
30	Lancaster	121.2	122.0	118.9	(1)	(1)	(1)	6.9	6.6	6.4	56.2	56.2	56.7
31	Philadelphia	1,805.3	1,813.5	1,813.2	1.3	1.2	1.3	94.2	85.3	92.2	548.7	552.3	581.7
32	Pittsburgh	869.7	876.0	883.7	9.3	9.3	8.7	49.7	48.2	50.2	277.1	277.9	295.4
33	Reading	122.3	125.2	124.6	(1)	(1)	(1)	5.1	4.9	4.4	56.5	58.1	60.0
34	Scranton	85.4	86.3	86.8	.4	.5	.5	3.0	2.7	2.8	31.9	32.5	35.2
35	Wilkes-Barre-Hazleton	120.9	122.0	122.4	2.1	2.3	2.4	5.6	5.5	5.8	50.7	50.0	52.7
36	York	133.6	134.4	130.0	(1)	(1)	(1)	9.0	8.5	7.9	62.6	62.6	61.7
37	RHODE ISLAND	334.0	338.8	343.9	(1)	(1)	(1)	16.7	16.5	15.0	116.3	119.8	125.6
38	Providence-Pawtucket-Warwick	346.0	350.5	354.7	(1)	(1)	(1)	16.7	16.5	15.5	132.8	136.0	141.1
39	SOUTH CAROLINA	812.1	813.9	814.1	1.7	1.7	1.7	52.1	52.8	52.3	330.2	333.5	339.2
40	Charleston	86.4	87.5	89.8	(1)	(1)	(1)	5.7	5.9	6.7	15.3	15.6	16.0
41	Columbia	106.6	107.3	106.1	(1)	(1)	(1)	7.4	7.4	8.0	19.9	20.1	20.2
42	Greenville	123.5	123.9	123.2	(1)	(1)	(1)	10.3	10.3	10.4	54.9	55.1	55.2
43	SOUTH DAKOTA	177.3	179.3	175.2	2.3	2.3	2.3	9.2	8.5	10.0	16.1	16.0	16.3
44	Sioux Falls	34.7	34.6	34.7	(1)	(1)	(1)	2.0	1.8	2.2	6.2	6.1	6.2
45	TENNESSEE	1,312.8	1,322.0	1,320.8	7.5	7.6	7.2	66.8	70.2	71.5	457.1	454.2	472.9
46	Chattanooga	121.7	122.3	126.9	.3	.3	.3	5.3	5.2	5.7	49.4	50.6	54.0
47	Knoxville	148.5	147.1	150.9	1.9	1.8	1.8	5.0	8.0	8.1	48.5	44.3	49.9
48	Memphis	273.2	270.7	275.0	.3	.3	.3	15.6	13.4	15.1	58.6	58.2	63.9
49	Nashville	221.4	221.1	218.7	(1)	(1)	(1)	14.0	13.9	14.7	62.2	62.4	61.7
50	TEXAS	3,727.6	3,742.0	3,650.8	105.1	105.0	107.6	246.4	251.2	239.9	732.6	740.2	763.1
51	Amarillo	-	-	-	-	-	-	-	-	-	7.4	7.4	6.6
52	Austin	-	-	-	-	-	-	-	-	-	(*)	11.6	10.8
53	Beaumont-Port Arthur-Orange	-	-	-	-	-	-	-	-	-	36.8	37.5	38.0
54	Corpus Christi	-	-	-	-	-	-	-	-	-	(*)	11.5	11.6

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			
July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	
93.3	93.1	90.9	307.9	309.2	308.2	72.3	71.4	68.4	210.5	208.2	207.8	251.5	258.3	236.4	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
18.7	18.7	18.5	46.0	46.5	45.6	12.4	12.3	12.2	27.2	27.3	25.7	20.0	20.0	19.1	3
16.0	16.0	15.7	46.1	46.3	45.5	12.4	12.5	12.0	30.4	30.5	30.3	25.7	26.9	25.2	4
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
12.2	12.0	12.3	44.9	44.2	43.9	7.1	7.1	7.0	28.7	29.1	28.4	49.0	50.0	47.1	6
3.4	3.3	3.3	12.3	12.4	12.2	2.4	2.4	2.3	8.3	8.4	7.7	9.0	9.6	8.2	7
237.3	235.4	226.4	784.8	787.6	762.4	161.0	159.5	154.9	575.4	585.2	546.7	540.9	564.7	526.1	8
15.6	15.4	14.7	49.5	49.3	48.3	7.0	6.9	6.8	35.0	35.5	32.9	31.5	34.5	30.6	9
7.1	7.0	6.8	27.2	27.4	25.8	4.9	4.8	4.7	19.3	19.6	18.4	12.5	13.0	12.2	10
37.5	37.2	35.8	108.2	108.9	104.7	26.8	26.5	26.0	80.9	82.5	76.5	65.5	68.3	61.5	11
55.5	55.0	53.0	185.6	186.3	181.3	43.7	43.1	41.5	138.9	141.4	131.7	109.8	110.3	108.5	12
22.8	22.6	21.3	79.8	79.7	77.4	26.4	25.9	24.7	64.6	65.4	60.6	75.3	81.7	72.8	13
12.9	13.2	12.6	60.8	61.9	59.4	10.2	10.1	9.5	49.7	50.7	47.3	57.7	58.1	57.0	14
18.2	18.0	17.3	53.0	53.3	52.1	8.3	8.3	8.0	38.7	39.4	36.7	31.6	36.1	29.2	15
10.1	10.1	9.6	38.0	38.1	36.2	5.8	5.8	5.6	26.7	27.2	25.4	19.4	20.3	19.0	16
53.8	53.8	54.3	168.3	169.5	165.6	37.3	37.1	36.4	110.7	109.8	108.8	180.5	190.2	178.9	17
17.6	17.3	17.4	57.2	57.2	55.9	15.9	15.7	15.7	38.1	37.9	37.3	66.3	69.9	67.7	18
16.6	16.9	16.7	39.3	39.4	40.1	9.8	9.6	9.1	30.1	30.1	29.1	17.8	18.0	17.3	19
49.5	49.7	50.1	164.4	162.2	160.7	35.8	35.7	35.3	111.3	113.3	108.7	140.3	152.8	133.8	20
4.1	4.1	4.3	13.5	13.4	13.8	2.9	2.9	2.9	9.4	9.7	9.1	14.8	17.2	14.0	21
31.1	31.0	31.6	92.6	92.7	93.5	24.5	24.3	24.2	67.8	69.2	64.5	57.4	62.9	55.6	22
1.9	1.9	1.8	11.1	11.2	10.6	3.1	3.1	3.1	7.6	7.6	7.5	16.6	18.0	16.5	23
274.2	274.7	268.5	810.4	819.2	815.1	195.4	193.3	188.1	701.5	701.8	686.0	598.6	625.0	592.2	24
12.3	12.3	12.0	35.1	35.7	35.3	6.9	6.9	6.6	27.7	28.1	27.4	19.9	20.5	19.4	25
7.6	7.5	7.7	8.6	8.6	8.4	1.2	1.2	1.2	7.0	7.1	7.2	6.2	6.4	6.0	26
5.5	5.4	5.4	17.7	17.5	17.1	3.7	3.7	3.6	13.6	13.4	13.0	10.2	10.8	9.8	27
13.7	13.8	13.6	32.7	32.7	33.4	8.9	8.8	8.6	26.1	25.7	26.4	44.2	45.2	44.0	28
4.9	4.6	4.7	14.0	14.1	13.9	2.2	2.3	2.2	13.2	12.9	13.2	12.8	13.0	11.9	29
5.4	5.5	5.3	23.1	23.1	21.8	3.0	2.9	2.8	17.2	17.3	16.8	9.4	10.4	9.1	30
111.5	112.0	109.8	362.4	370.8	361.8	104.3	103.0	101.6	319.8	320.3	311.4	263.1	268.6	253.4	31
60.5	60.7	59.9	174.9	175.0	174.1	39.0	38.7	37.2	161.0	160.7	157.0	98.2	105.5	101.2	32
6.4	6.5	6.5	19.7	20.0	19.4	4.9	4.9	4.9	17.0	17.3	16.9	12.7	13.5	12.5	33
5.3	5.3	5.1	17.5	17.8	17.3	2.6	2.6	2.6	14.3	14.6	13.7	10.4	10.3	9.6	34
7.0	7.0	6.8	21.4	21.6	20.7	4.2	4.2	4.0	14.7	15.3	15.2	15.2	16.1	14.8	35
6.2	6.2	5.7	24.6	24.7	23.9	3.0	3.0	2.8	15.2	15.3	15.0	13.0	14.1	13.0	36
15.7	15.7	15.7	63.7	64.9	65.4	15.2	15.2	15.4	54.3	54.1	53.7	52.1	52.6	53.1	37
15.3	15.4	15.3	64.2	65.4	65.8	15.2	15.2	15.5	53.2	53.0	52.5	48.6	49.0	49.0	38
37.4	37.0	36.2	135.5	135.4	136.8	29.5	29.4	28.9	83.3	82.9	84.9	142.4	141.2	134.1	39
5.7	5.4	5.5	16.7	16.7	16.9	3.5	3.5	3.5	10.3	10.3	10.4	29.2	30.1	30.8	40
7.1	7.1	7.1	22.3	22.2	22.0	6.7	6.7	6.5	14.1	14.1	14.0	29.1	29.7	28.3	41
4.8	4.8	4.8	21.2	21.4	21.1	4.9	4.9	4.8	12.7	12.7	13.1	14.7	14.7	13.8	42
10.3	10.1	10.6	47.5	47.0	45.6	7.7	7.6	7.4	31.4	31.7	31.0	52.8	56.1	52.0	43
3.4	3.4	3.0	10.2	10.1	10.1	2.1	2.1	2.1	6.3	6.5	6.6	4.5	4.7	4.5	44
66.7	66.5	66.3	261.0	260.6	256.9	58.1	57.9	57.8	177.6	178.6	178.5	218.0	226.4	209.7	45
6.2	6.2	6.4	22.7	22.6	23.1	7.4	7.3	7.1	16.2	16.0	16.1	14.2	14.1	14.2	46
7.0	7.0	6.6	32.0	31.9	32.2	4.8	4.8	4.9	20.2	20.1	19.7	29.1	29.0	27.7	47
20.3	20.2	20.1	68.6	68.3	68.9	15.0	15.0	14.9	46.9	46.4	44.6	47.9	48.9	47.2	48
13.5	13.3	13.0	47.3	47.2	47.7	14.3	14.2	13.7	36.3	36.3	35.1	33.8	33.8	32.8	49
272.8	271.4	259.8	897.5	892.6	857.4	196.4	196.5	188.5	630.0	628.7	595.6	646.8	656.4	638.9	50
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

B-7: Employees on nonagricultural payrolls

(In thousands)

	State and area	TOTAL			Mining			Contract construction			Manufacturing		
		July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969
	TEXAS (continued)												
1	Dallas	668.9	669.7	652.6	7.8	7.8	8.0	42.2	42.6	40.0	158.7	160.9	177.3
2	El Paso	-	-	-	-	-	-	-	-	-	24.5	24.3	22.9
3	Fort Worth	264.9	267.4	266.2	1.9	1.8	1.9	9.4	11.3	13.4	90.1	91.2	91.8
4	Galveston-Texas City	-	-	-	-	-	-	-	-	-	12.2	12.2	12.1
5	Houston	779.6	779.1	745.7	31.2	30.9	29.5	76.3	77.1	69.6	144.7	145.2	144.7
6	Lubbock	-	-	-	-	-	-	-	-	-	6.3	6.5	7.0
7	San Antonio	259.3	259.1	261.8	1.4	1.4	1.4	14.6	14.5	16.7	33.6	33.4	33.5
8	Waco	-	-	-	-	-	-	-	-	-	(*)	12.6	13.5
9	Wichita Falls	-	-	-	-	-	-	-	-	-	4.5	4.6	4.6
10	UTAH	361.3	359.6	351.9	13.1	13.0	13.0	17.7	16.9	16.1	54.8	54.4	55.3
11	Salt Lake City	189.1	188.2	185.5	7.8	7.8	7.8	8.8	8.4	8.5	28.8	28.8	29.2
12	VERMONT	152.6	149.6	151.0	1.0	1.0	1.0	11.7	11.5	11.1	40.9	42.1	43.6
13	Burlington ⁹	38.9	38.7	37.7	-	-	-	-	-	-	10.9	11.0	11.1
14	Springfield	12.7	13.0	13.7	-	-	-	-	-	-	5.4	5.9	6.8
15	VIRGINIA ³	1,454.5	1,466.2	1,444.5	15.5	15.5	14.6	101.9	100.8	103.0	360.3	361.4	370.8
16	Lynchburg	53.7	53.7	50.7	(1)	(1)	(1)	3.2	3.1	2.9	24.6	24.7	24.0
17	Newport News-Hampton	96.8	97.6	97.3	(1)	(1)	(1)	5.9	5.7	5.8	24.6	25.2	27.3
18	Norfolk-Portsmouth	200.1	201.8	201.7	(1)	(1)	(1)	13.8	14.2	14.4	20.0	19.9	20.6
19	Northern Virginia ¹⁰	265.7	261.7	255.4	.4	.4	.4	22.7	22.3	23.7	9.0	9.0	9.6
20	Richmond	236.6	236.4	230.8	.2	.2	.2	16.1	15.9	16.1	51.3	50.4	51.5
21	Roanoke	83.0	83.0	81.6	.1	.1	.1	5.4	5.3	5.6	19.8	19.8	19.2
22	WASHINGTON	1,085.9	1,106.9	1,131.1	1.8	1.8	1.8	59.9	57.7	63.7	240.6	240.7	286.3
23	Seattle-Everett	526.4	537.5	564.9	(1)	(1)	(1)	28.3	28.3	32.0	127.4	129.0	163.1
24	Spokane	88.5	89.2	89.2	(1)	(1)	(1)	5.1	4.9	5.3	12.7	12.3	13.7
25	Tacoma	108.2	109.1	109.8	(1)	(1)	(1)	5.2	5.1	6.6	20.3	19.7	21.8
26	WEST VIRGINIA	515.8	517.4	518.8	49.0	49.0	48.1	25.2	24.8	28.1	127.1	128.2	132.8
27	Charleston	81.4	82.1	83.4	4.1	4.0	3.6	3.7	3.5	4.5	17.5	17.5	18.8
28	Huntington-Ashland	81.5	81.7	80.9	.5	.5	.5	3.4	3.3	3.7	26.6	26.7	26.7
29	Wheeling	58.5	58.2	57.2	5.1	5.0	4.2	3.1	2.9	3.8	15.6	15.8	15.3
30	WISCONSIN	1,549.0	1,543.0	1,531.1	3.0	3.0	3.0	66.3	64.8	74.6	508.2	495.0	522.1
31	Green Bay	55.3	55.1	53.6	(1)	(1)	(1)	2.3	2.3	2.9	17.8	16.8	17.0
32	Kenosha	34.8	35.3	32.5	(1)	(1)	(1)	1.2	1.2	1.6	16.1	16.3	14.0
33	La Crosse	29.5	29.5	29.4	(1)	(1)	(1)	1.2	1.2	1.4	8.4	8.4	8.8
34	Madison	121.2	122.1	117.5	(1)	(1)	(1)	7.3	7.0	7.1	16.3	15.7	17.2
35	Milwaukee	571.2	569.6	566.8	(1)	(1)	(1)	22.8	23.1	25.9	205.4	199.7	208.5
36	Racine	54.4	55.8	55.4	(1)	(1)	(1)	1.7	1.6	2.1	24.3	25.0	25.6
37	WYOMING	114.9	114.0	115.2	11.7	12.0	12.0	7.0	6.8	8.1	7.2	7.1	7.1
38	Casper	19.7	20.3	20.7	4.4	5.0	4.5	1.2	1.2	1.5	1.4	1.4	1.4
39	Cheyenne	19.1	18.7	18.8	(1)	(1)	(1)	1.1	1.0	1.0	1.3	1.2	1.1

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

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

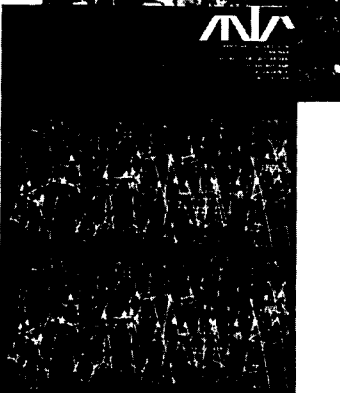
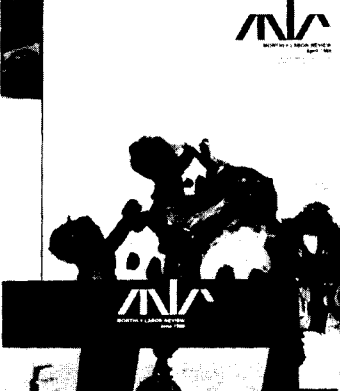
ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT

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			
July p 1970	June 1970	July 1969	July p 1970	June 1970	July 1969	July p 1970	June 1970	July 1969	July p 1970	June 1970	July 1969	July p 1970	June 1970	July 1969	
54.5	54.4	52.8	179.1	178.7	168.6	57.0	56.6	52.8	103.4	102.5	95.1	66.3	66.2	58.0	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
15.8	15.7	15.9	63.0	62.8	60.7	12.4	12.3	11.8	38.8	38.5	38.7	33.5	33.8	32.0	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
68.5	68.3	66.4	189.3	189.3	179.9	41.9	41.1	39.4	145.7	144.8	137.1	82.0	82.4	79.1	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
11.0	11.0	11.4	63.2	63.3	62.2	16.5	16.3	16.3	45.2	45.3	45.3	73.8	73.9	75.0	7
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
23.8	23.6	23.5	80.5	80.8	78.3	15.6	15.3	14.6	59.2	57.2	54.3	96.7	98.4	96.8	10
15.9	15.7	15.5	49.6	49.4	49.1	11.3	11.2	11.1	32.5	32.1	31.0	34.4	34.9	33.2	11
8.3	8.2	7.9	28.5	28.0	27.9	5.5	5.5	5.3	32.0	27.6	30.9	24.8	25.8	23.4	12
2.0	2.0	1.9	7.4	7.3	7.1	-	-	-	7.7	7.1	7.6	-	-	-	13
.9	.9	.9	1.9	1.9	2.0	-	-	-	1.8	1.7	1.7	-	-	-	14
100.6	100.1	97.8	302.8	302.9	295.7	71.2	70.3	67.1	211.8	212.3	211.6	290.4	302.9	283.9	15
2.6	2.6	2.3	9.1	9.1	8.2	2.1	2.0	2.0	6.6	6.6	6.0	5.5	5.6	5.3	16
4.4	4.4	4.3	17.5	17.5	16.1	3.1	3.1	2.9	13.0	12.8	12.0	28.3	28.9	28.9	17
16.6	16.7	16.8	50.0	49.5	48.5	9.7	9.5	9.2	30.9	30.7	30.7	59.1	61.3	61.5	18
20.9	20.6	20.2	61.5	61.4	59.2	16.6	16.5	15.6	44.4	45.4	45.0	90.2	86.1	81.7	19
18.5	18.3	18.1	53.9	53.8	51.9	18.5	18.3	17.9	34.8	34.9	33.9	43.3	44.6	41.2	20
11.3	11.1	10.9	19.4	19.3	18.8	4.3	4.3	4.2	12.9	12.8	12.8	9.8	10.3	10.0	21
75.1	75.5	76.2	246.0	247.1	247.9	59.8	59.8	59.8	172.5	174.4	170.4	230.2	249.9	225.0	22
39.6	40.7	41.4	122.9	123.3	124.3	36.6	36.5	36.3	85.4	85.6	84.8	86.2	94.1	83.0	23
7.5	7.4	7.9	23.0	23.1	23.2	5.4	5.3	5.1	18.0	18.4	18.0	16.8	17.8	16.0	24
7.0	6.9	7.0	24.1	24.3	23.6	6.3	6.3	6.2	19.4	19.4	18.7	25.9	27.4	25.9	25
42.7	42.4	42.2	93.8	93.8	93.6	15.6	15.6	15.3	65.8	65.3	65.1	96.7	98.3	93.7	26
9.0	8.9	9.0	18.7	18.8	18.8	4.1	4.2	3.9	11.6	11.5	11.6	12.6	13.6	13.3	27
8.3	8.3	8.2	17.7	17.8	17.2	2.9	2.9	2.8	10.0	10.1	10.2	12.1	12.2	11.4	28
3.8	3.8	3.7	12.6	12.6	12.8	2.2	2.2	2.1	9.1	9.1	8.6	7.0	7.0	6.6	29
80.6	81.5	79.7	341.2	340.8	324.1	63.3	62.4	60.4	230.2	228.9	221.0	256.2	266.7	246.3	30
4.7	4.7	4.5	14.0	14.1	13.6	1.5	1.5	1.4	8.3	8.3	8.0	6.8	7.4	6.3	31
1.3	1.3	1.3	6.4	6.3	6.0	.7	.8	.7	4.6	4.7	4.6	4.6	4.8	4.4	32
2.2	2.1	2.2	7.1	7.1	6.8	.7	.7	.6	5.7	5.7	5.4	4.3	4.4	4.1	33
6.0	6.0	5.4	24.8	24.9	23.2	6.7	6.6	6.3	18.0	18.1	16.9	42.3	43.8	41.3	34
31.0	31.6	30.9	125.5	125.8	119.4	29.4	29.2	28.5	86.8	86.6	84.9	70.3	73.6	68.7	35
1.9	2.1	2.1	10.0	10.0	9.6	1.4	1.4	1.4	7.9	8.0	7.7	7.1	7.6	6.8	36
11.4	11.3	11.5	25.0	24.9	26.3	3.8	3.8	3.6	19.1	18.2	18.9	29.7	29.9	27.7	37
1.3	1.3	1.6	4.6	4.5	4.7	.8	.8	.9	2.4	2.3	2.6	3.6	3.8	3.5	38
2.4	2.4	2.6	4.3	4.0	4.0	1.1	1.1	1.0	3.4	3.3	3.7	5.5	5.7	5.4	39

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ESTABLISHMENT DATA HISTORICAL HOURS AND EARNINGS

**C-1: Gross hours and earnings of production or nonsupervisory workers¹
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 ¹			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 ²	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: August.....	116.59	38.1	3.06	156.96	43.6	3.60	187.68	39.1	4.80	129.92	40.6	3.20
September.....	117.87	37.9	3.11	158.41	43.4	3.65	193.36	39.3	4.92	132.84	41.0	3.24
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 P.....	121.45	37.6	3.23	163.83	43.0	3.81	199.82	38.5	5.19	134.46	39.9	3.37
August P.....	122.15	37.7	3.24	166.75	43.2	3.86	203.42	38.6	5.27	134.06	39.9	3.36
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 ²	-	-	-	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: August.....	149.74	40.8	3.67	93.70	36.6	2.56	108.04	37.0	2.92	92.49	35.3	2.62
September.....	152.11	41.0	3.71	92.46	35.7	2.59	108.41	37.0	2.93	92.38	34.6	2.67
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 P.....	159.06	41.1	3.87	98.37	36.3	2.71	112.61	36.8	3.06	98.77	34.9	2.83
August P.....	159.10	40.9	3.89	98.64	36.4	2.71	113.22	37.0	3.06	97.23	34.6	2.81

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

² Data include Alaska and Hawaii 1959.

p= preliminary

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
-	TOTAL PRIVATE	\$122.15	\$121.45	\$120.05	\$116.59	\$115.90	\$3.24	\$3.23	\$3.21	\$3.06	\$3.05
-	MINING	166.75	163.83	163.88	156.96	154.37	3.86	3.81	3.82	3.60	3.59
10	METAL MINING	-	165.29	166.45	158.67	156.59	-	3.88	3.88	3.69	3.65
101	Iron ores.....	-	162.43	161.24	156.33	149.19	-	3.84	3.83	3.74	3.63
102	Copper ores.....	-	176.27	177.51	170.38	173.54	-	3.97	3.98	3.72	3.74
11,12	COAL MINING	-	179.96	182.34	167.26	157.50	-	(*)	4.48	4.14	(*)
12	Bituminous coal and lignite mining...	-	182.04	184.91	169.72	159.89	-	(*)	4.51	4.17	(*)
13	OIL AND GAS EXTRACTION	-	153.51	152.01	151.16	153.42	-	3.57	3.56	3.42	3.44
131,2	Crude petroleum and natural gas fields...	-	155.47	153.14	145.20	151.26	-	3.82	3.80	3.55	3.61
138	Oil and gas field services.....	-	152.43	151.75	155.44	154.51	-	3.41	3.41	3.35	3.33
14	NONMETALLIC MINERALS, EXCEPT FUELS	-	161.00	158.81	153.45	152.33	-	3.50	3.46	3.30	3.29
142	Crushed and broken stone.....	-	160.61	160.01	160.71	156.00	-	3.41	3.39	3.30	3.25
-	CONTRACT CONSTRUCTION	203.42	199.82	196.99	187.68	184.21	5.27	5.19	5.13	4.80	4.76
15	GENERAL BUILDING CONTRACTORS	-	187.12	182.66	173.16	171.03	-	5.03	4.95	4.63	4.61
16	HEAVY CONSTRUCTION CONTRACTORS	-	209.04	204.20	199.33	190.92	-	4.85	4.76	4.52	4.44
161	Highway and street construction.....	-	201.00	197.09	193.54	182.75	-	4.61	4.51	4.32	4.25
162	Heavy construction, n.e.c.....	-	216.83	210.50	204.81	199.55	-	5.09	5.00	4.73	4.63
17	SPECIAL TRADE CONTRACTORS	-	203.32	201.47	191.65	189.25	-	5.51	5.46	5.07	5.02
171	Plumbing, heating, air conditioning...	-	215.08	211.48	202.28	202.00	-	5.66	5.58	5.20	5.14
172	Painting, paper hanging, decorating...	-	177.99	178.31	174.85	170.17	-	5.10	5.08	4.83	4.74
173	Electrical work.....	-	234.42	233.45	227.92	224.52	-	5.98	5.91	5.60	5.53
174	Masonry, stonework, and plastering...	-	186.79	182.29	175.73	172.13	-	5.43	5.33	4.95	4.89
176	Roofing and sheetmetal work.....	-	168.64	166.01	160.03	159.04	-	4.86	4.84	4.47	4.43
-	MANUFACTURING	134.06	134.46	134.40	129.92	128.88	3.36	3.37	3.36	3.20	3.19
19,24,25,32-39	DURABLE GOODS	144.99	143.87	144.94	139.33	138.24	3.58	3.57	3.57	3.39	3.38
20-23,26-31	NONDURABLE GOODS	120.74	121.13	119.95	116.51	116.22	3.08	3.09	3.06	2.92	2.92
	<i>Durable Goods</i>										
19	ORDNANCE AND ACCESSORIES	148.47	143.28	146.11	137.89	135.72	3.63	3.60	3.59	3.43	3.41
192	Ammunition, except for small arms...	142.44	140.54	141.55	133.91	130.70	3.57	3.54	3.53	3.39	3.36
1925	Complete guided missiles.....	-	170.98	174.71	171.74	166.00	-	4.13	4.14	4.06	4.00
1929	Ammunition, exc. for small arms, nec	-	124.16	123.31	116.51	114.61	-	3.20	3.17	3.05	3.04
24	LUMBER AND WOOD PRODUCTS	122.51	118.31	119.50	112.16	109.18	3.04	2.98	2.98	2.79	2.75
242	Sawmills and planing mills.....	(*)	114.34	115.26	107.47	104.01	(*)	2.88	2.86	2.68	2.62
2421	Sawmills and planing mills, general...	-	118.21	119.18	111.08	107.32	-	2.97	2.95	2.77	2.71
243	Millwork, plywood & related products...	129.83	126.32	126.54	118.30	114.26	3.19	3.15	3.14	2.95	2.90
2431	Millwork.....	-	120.65	121.66	114.07	110.58	-	3.07	3.08	2.91	2.85
2432	Veneer and plywood.....	-	129.43	130.19	118.96	114.73	-	3.18	3.16	2.93	2.89
244	Wooden containers.....	(*)	95.06	92.64	91.43	91.43	(*)	2.45	2.40	2.28	2.28
2441,2	Wooden boxes, shooks, and crates...	-	94.43	91.48	90.90	90.27	-	2.44	2.37	2.25	2.24
249	Miscellaneous wood products.....	106.04	104.38	104.09	101.19	98.49	2.58	2.59	2.57	2.45	2.42
25	FURNITURE AND FIXTURES	110.88	107.59	107.92	107.71	104.01	2.80	2.78	2.76	2.64	2.62
251	Household furniture.....	(*)	99.58	99.85	101.09	97.32	(*)	2.60	2.58	2.49	2.47
2511	Wood household furniture.....	-	93.94	95.50	97.53	93.67	-	2.44	2.43	2.35	2.33
2512	Upholstered household furniture...	-	104.33	102.30	105.59	100.99	-	2.76	2.75	2.68	2.63
2515	Mattresses and bedspings.....	-	111.74	111.64	108.50	103.95	-	2.88	2.87	2.74	2.70
252	Office furniture.....	-	123.17	123.95	125.46	124.44	-	3.15	3.13	2.98	2.97
254	Partitions and fixtures.....	-	139.26	135.54	137.19	133.33	-	3.43	3.38	3.29	3.26
253,9	Other furniture and fixtures.....	122.21	117.30	119.10	111.76	107.64	3.01	3.00	2.97	2.78	2.76
32	STONE, CLAY, AND GLASS PRODUCTS	143.03	140.83	141.10	136.53	133.34	3.43	3.41	3.40	3.22	3.19
321	Flat glass.....	-	180.19	186.61	176.69	172.14	-	4.27	4.28	4.09	4.06
322	Glass and glassware, pressed or blown	139.15	137.31	137.26	131.38	130.73	3.47	3.45	3.44	3.26	3.26
3221	Glass containers.....	-	143.07	142.97	136.55	135.54	-	3.55	3.53	3.38	3.38
3229	Pressed and blown glass, n.e.c.....	-	128.64	129.09	124.22	123.60	-	3.29	3.31	3.09	3.09
324	Cement, hydraulic.....	178.02	178.48	178.08	156.42	153.82	4.30	4.28	4.25	3.76	3.68
325	Structural clay products.....	115.14	113.88	114.45	111.11	109.75	2.85	2.84	2.84	2.71	2.69
3251	Brick and structural clay tile.....	-	108.40	110.29	107.68	106.59	-	2.67	2.69	2.57	2.55
326	Pottery and related products.....	-	118.50	116.66	115.89	113.39	-	3.07	3.03	2.89	2.90
327	Concrete, gypsum, and plaster products.....	154.26	151.11	149.36	148.26	144.70	3.49	3.45	3.41	3.28	3.23
328,9	Other stone and nonmetallic mineral products.....	(*)	137.63	138.99	134.92	131.43	(*)	3.39	3.39	3.22	3.19
3291	Abrasive products.....	-	129.08	132.52	129.81	130.81	-	3.47	3.46	3.32	3.32

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**
**C-2: Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1970 ^p	July 1970 ^p	June 1970	Aug. 1969	July 1969	Aug. 1970 ^p	July 1970 ^p	June 1970	Aug. 1969	July 1969
-	TOTAL PRIVATE	37.7	37.6	37.4	38.1	38.0	-	-	-	-	-
-	MINING	43.2	43.0	42.9	43.6	43.0	-	-	-	-	-
10	METAL MINING	-	42.6	42.9	43.0	42.9	-	-	-	-	-
101	Iron ores	-	42.3	42.1	41.8	41.1	-	-	-	-	-
102	Copper ores	-	44.4	44.6	45.8	46.4	-	-	-	-	-
11,12	COAL MINING	-	(*)	40.7	40.4	(*)	-	-	-	-	-
12	Bituminous coal and lignite mining	-	(*)	41.0	40.7	(*)	-	-	-	-	-
13	OIL AND GAS EXTRACTION	-	43.0	42.7	44.2	44.6	-	-	-	-	-
131,2	Crude petroleum and natural gas fields	-	40.7	40.3	40.9	41.9	-	-	-	-	-
138	Oil and gas field services	-	44.7	44.5	46.4	46.4	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	-	46.0	45.9	46.5	46.3	-	-	-	-	-
142	Crushed and broken stone	-	47.1	47.2	48.7	48.0	-	-	-	-	-
-	CONTRACT CONSTRUCTION	38.6	38.5	38.4	39.1	38.7	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	-	37.2	36.9	37.4	37.1	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	-	43.1	42.9	44.1	43.0	-	-	-	-	-
161	Highway and street construction	-	43.6	43.7	44.8	43.0	-	-	-	-	-
162	Heavy construction, n e c	-	42.6	42.1	43.3	43.1	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	-	36.9	36.9	37.8	37.7	-	-	-	-	-
171	Plumbing, heating, air conditioning	-	38.0	37.9	38.9	39.3	-	-	-	-	-
172	Painting, paper hanging, decorating	-	34.9	35.1	36.2	35.9	-	-	-	-	-
173	Electrical work	-	39.2	39.5	40.7	40.6	-	-	-	-	-
174	Masonry, stonework, and plastering	-	34.4	34.2	35.5	35.2	-	-	-	-	-
176	Roofing and sheet metal work	-	34.7	34.3	35.8	35.9	-	-	-	-	-
-	MANUFACTURING	39.9	39.9	40.0	40.6	40.4	3.0	2.9	3.1	3.7	3.5
19,24,25,32-39	DURABLE GOODS	40.5	40.3	40.6	41.1	40.9	3.0	2.9	3.2	3.8	3.6
20-23,26-31	NONDURABLE GOODS	39.2	39.2	39.2	39.9	39.8	2.9	2.9	3.0	3.5	3.4
	<i>Durable Goods</i>										
19	ORDNANCE AND ACCESSORIES	40.9	39.8	40.7	40.2	39.8	-	2.0	2.2	2.5	2.2
192	Ammunition, except for small arms	39.9	39.7	40.1	39.5	38.9	-	1.7	1.7	2.1	1.6
1925	Complete guided missiles	-	41.4	42.2	42.3	41.5	-	-	-	-	-
1929	Ammunition, exc. for small arms, nec	-	38.8	38.9	38.2	37.7	-	-	-	-	-
24	LUMBER AND WOOD PRODUCTS	40.3	39.7	40.1	40.2	39.7	-	3.2	3.4	3.8	3.6
242	Sawmills and planing mills	(*)	39.7	40.3	40.1	39.7	-	3.4	3.6	3.9	3.8
2421	Sawmills and planing mills, general	-	39.8	40.4	40.1	39.6	-	-	-	-	-
243	Millwork, plywood & related products	40.7	40.1	40.3	40.1	39.4	-	3.0	3.5	3.4	3.2
2431	Millwork	-	39.3	39.5	39.2	38.8	-	-	-	-	-
2432	Veneer and plywood	-	40.7	41.2	40.6	39.7	-	-	-	-	-
244	Wooden containers	(*)	38.8	38.6	40.1	40.1	-	2.3	2.7	3.7	4.0
2441,2	Wooden boxes, shooks, and crates	-	38.7	38.6	40.4	40.3	-	-	-	-	-
249	Miscellaneous wood products	41.1	40.3	40.5	41.3	40.7	-	3.0	3.3	4.0	3.7
25	FURNITURE AND FIXTURES	39.6	38.7	39.1	40.8	39.7	-	2.1	2.3	3.4	3.0
251	Household furniture	(*)	38.3	38.7	40.6	39.4	-	1.9	2.2	3.3	2.8
2511	Wood household furniture	-	38.5	39.3	41.5	40.2	-	-	-	-	-
2512	Upholstered household furniture	-	37.8	37.2	39.4	38.4	-	-	-	-	-
2515	Mattresses and bedsprings	-	38.8	38.9	39.6	38.5	-	-	-	-	-
252	Office furniture	-	39.1	39.6	42.1	41.9	-	2.5	2.6	4.5	4.5
254	Partitions and fixtures	-	40.6	40.1	41.7	40.9	-	2.7	2.5	4.0	3.5
253,9	Other furniture and fixtures	40.6	39.1	40.1	40.2	39.0	-	2.1	2.7	3.3	2.7
32	STONE, CLAY, AND GLASS PRODUCTS	41.7	41.3	41.5	42.4	41.8	-	4.3	4.3	5.2	4.9
321	Flat glass	-	42.2	43.6	43.2	42.4	-	4.2	4.3	5.0	4.5
322	Glass and glassware, pressed or blown	40.1	39.8	39.9	40.3	40.1	-	4.3	4.2	4.4	4.5
3221	Glass containers	-	40.3	40.5	40.4	40.1	-	-	-	-	-
3229	Pressed and blown glass, n e c	-	39.1	39.0	40.2	40.0	-	-	-	-	-
324	Cement, hydraulic	41.4	41.7	41.9	41.6	41.8	-	2.8	3.0	3.2	3.2
325	Structural clay products	40.4	40.1	40.3	41.0	40.8	-	3.4	3.5	4.1	4.1
3251	Brick and structural clay tile	-	40.6	41.0	41.9	41.8	-	-	-	-	-
326	Pottery and related products	-	38.6	38.5	40.1	39.1	-	1.8	1.8	2.9	2.6
327	Concrete, gypsum and plaster products	44.2	43.8	43.8	45.2	44.8	-	6.5	6.4	7.5	7.2
328,9	Other stone and nonmetallic mineral products	(*)	40.6	41.0	41.9	41.2	-	3.2	3.3	4.5	3.8
3291	Abrasive products	-	37.2	38.3	39.1	39.4	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

84

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
<i>Durable Goods--Continued</i>											
33	PRIMARY METAL INDUSTRIES	\$163.21	\$160.36	\$159.54	\$160.51	\$157.66	\$4.01	\$3.94	\$3.92	\$3.84	\$3.79
331	Blast furnace and basic steel products ..	(*)	168.91	166.45	170.15	167.23	(*)	4.14	4.12	4.10	4.02
3312	Blast furnaces and steel mills	-	170.53	167.63	172.63	169.74	-	4.19	4.17	4.18	4.09
332	Iron and steel foundries	(*)	154.19	153.38	150.36	145.44	(*)	3.77	3.75	3.58	3.53
3321	Gray iron foundries	-	153.09	151.88	152.28	144.38	-	3.78	3.75	3.60	3.53
3322	Malleable iron foundries	-	165.98	166.03	156.19	147.65	-	4.16	4.13	3.71	3.61
3323	Steel foundries	-	152.04	152.82	143.31	146.58	-	3.62	3.63	3.47	3.49
333,4	Nonferrous metals	159.26	160.90	156.87	153.97	155.06	3.81	3.84	3.78	3.64	3.64
3334	Primary aluminum	-	171.80	167.68	167.23	167.25	-	4.18	4.13	4.02	4.03
335	Nonferrous rolling and drawing	(*)	149.78	151.98	152.44	149.32	(*)	3.68	3.68	3.47	3.53
3351	Copper rolling and drawing	-	147.20	154.01	156.60	153.08	-	3.68	3.72	3.60	3.56
3352	Aluminum rolling and drawing	-	154.19	152.56	155.61	152.88	-	3.77	3.73	3.67	3.64
3357	Nonferrous wire drawing and insulating ..	-	147.29	149.87	149.88	144.90	-	3.61	3.62	3.51	3.45
336	Nonferrous foundries	(*)	137.59	140.30	135.86	134.46	(*)	3.51	3.49	3.33	3.32
3361	Aluminum castings	-	136.68	140.80	138.04	136.68	-	3.55	3.52	3.40	3.40
3362,9	Other nonferrous castings	-	139.15	139.78	133.25	132.19	-	3.47	3.46	3.25	3.24
339	Miscellaneous primary metal products ...	(*)	160.31	168.06	166.38	167.18	(*)	4.10	4.16	3.99	3.99
3391	Iron and steel forgings	-	163.28	173.63	171.81	171.81	-	4.23	4.33	4.16	4.14
34	FABRICATED METAL PRODUCTS	144.08	144.79	145.49	139.28	137.20	3.54	3.54	3.54	3.34	3.33
341	Metal cans	176.11	182.66	177.76	179.14	174.27	4.03	4.05	4.04	3.92	3.89
342	Cutlery, hand tools, and hardware	135.47	130.02	133.46	129.02	127.66	3.37	3.30	3.32	3.17	3.16
3421,3,5	Cutlery and hand tools, incl. saws	-	126.29	128.95	125.96	125.15	-	3.23	3.24	3.11	3.09
3429	Hardware, n e c	-	133.39	136.89	131.29	130.09	-	3.36	3.38	3.21	3.22
343	Plumbing and heating, except electric ...	130.47	129.49	128.77	125.96	124.40	3.27	3.27	3.26	3.11	3.11
3431,2	Sanitary ware & plumbers' brass goods ..	-	130.32	130.48	125.83	122.77	-	3.35	3.32	3.13	3.14
3433	Heating equipment, except electric	-	128.72	128.16	126.48	125.36	-	3.21	3.22	3.10	3.08
344	Fabricated structural metal products	143.02	142.16	141.69	136.70	135.55	3.54	3.51	3.49	3.31	3.29
3441	Fabricated structural steel	-	147.97	143.38	138.53	136.21	-	3.54	3.48	3.33	3.29
3442	Metal doors, sash, and trim	-	118.20	117.99	114.29	111.67	-	3.00	3.01	2.85	2.82
3443	Fabricated plate work (boiler shops) ..	-	148.27	150.38	146.51	146.16	-	3.67	3.65	3.48	3.48
3444	Sheet metal work	-	147.68	148.83	143.91	143.09	-	3.72	3.73	3.51	3.49
3446,9	Architectural and misc. metal work	-	137.50	137.63	133.12	131.15	-	3.37	3.39	3.20	3.13
345	Screw machine products, bolts, etc.	(*)	140.54	141.58	145.34	142.04	(*)	3.47	3.47	3.38	3.35
3451	Screw machine products	-	138.17	137.70	137.01	136.59	-	3.42	3.40	3.27	3.26
3452	Bolts, nuts, rivets, and washers	-	142.56	145.14	153.12	147.58	-	3.52	3.54	3.48	3.44
346	Metal stampings	(*)	168.52	171.78	152.70	150.02	(*)	3.91	3.94	3.61	3.65
347	Metal services, n e c	(*)	124.50	125.69	120.66	120.47	(*)	3.16	3.15	2.95	2.96
348	Misc. fabricated wire products	126.55	126.25	127.92	123.73	120.70	3.22	3.18	3.19	3.04	3.01
349	Misc. fabricated metal products	140.54	136.57	138.98	133.90	131.70	3.47	3.44	3.44	3.25	3.22
3494,8	Valves, pipe, and pipe fittings	-	139.83	141.45	137.03	133.99	-	3.54	3.51	3.31	3.26
35	MACHINERY, EXCEPT ELECTRICAL	152.31	153.06	155.32	149.94	148.81	3.77	3.77	3.77	3.57	3.56
351	Engines and turbines	172.63	170.94	170.14	156.36	154.75	4.19	4.20	4.17	3.88	3.84
3511	Steam engines and turbines	-	186.01	185.54	162.33	157.18	-	4.45	4.46	3.94	3.91
3519	Internal combustion engines, n e c	-	163.21	162.41	154.01	153.54	-	4.07	4.02	3.86	3.81
352	Farm machinery	-	146.20	147.29	140.30	135.37	-	3.72	3.71	3.49	3.48
353	Construction and related machinery	(*)	151.50	152.56	146.78	149.60	(*)	3.75	3.73	3.52	3.52
3531,2	Construction and mining machinery	-	157.53	157.87	150.23	152.34	-	3.88	3.86	3.62	3.61
3533	Oil field machinery	-	142.39	147.49	141.76	140.48	-	3.49	3.52	3.32	3.29
3535,6	Conveyors, hoists, cranes, monorails ..	-	149.11	149.74	146.23	154.26	-	3.70	3.67	3.49	3.53
3537	Industrial trucks and tractors	-	129.34	130.94	138.61	140.95	-	3.44	3.41	3.34	3.34
354	Metal working machinery	(*)	172.21	175.10	169.56	167.96	(*)	4.11	4.12	3.88	3.87
3541	Machine tools, metal cutting types	-	164.42	165.61	164.92	161.83	-	4.03	4.01	3.80	3.79
3544	Special dies, tools, jigs & fixtures	-	192.70	199.36	186.40	185.09	-	4.44	4.48	4.17	4.15
3545	Machine tool accessories	-	152.00	157.41	150.78	153.19	-	3.80	3.83	3.59	3.63
3542,8	Misc. metal working machinery	-	155.70	152.59	157.54	154.08	-	3.77	3.74	3.63	3.60
355	Special industry machinery	144.23	144.59	145.44	141.71	140.37	3.57	3.57	3.53	3.35	3.35
3551	Food products machinery	-	149.11	152.67	145.60	145.31	-	3.70	3.67	3.50	3.51
3552	Textile machinery	-	125.87	125.77	119.85	119.13	-	3.07	3.06	2.84	2.85
3555	Printing trades machinery	-	153.60	151.55	148.27	149.29	-	3.84	3.77	3.59	2.58
356	General industrial machinery	149.23	151.13	151.47	150.30	146.97	3.74	3.75	3.74	3.57	3.55
3561	Pumps and compressors	-	149.60	151.11	144.63	139.26	-	3.64	3.65	3.46	3.43
3562	Ball and roller bearings	-	149.77	149.38	157.56	150.33	-	3.86	3.84	3.69	3.64
3564	Blowers and fans	-	143.94	141.93	142.52	140.77	-	3.46	3.42	3.33	3.32
3566	Power transmission equipment	-	153.03	153.68	147.70	149.25	-	3.76	3.73	3.50	3.52
357	Office and computing machines	(*)	148.30	150.92	146.06	148.01	(*)	3.68	3.69	3.58	3.61
3573	Electronic computing equipment	-	154.05	154.34	150.95	146.88	-	3.73	3.71	3.62	3.60
358	Service industry machines	133.33	133.12	136.01	132.11	131.61	3.41	3.37	3.35	3.23	3.21
3585	Refrigeration machinery	-	134.24	137.97	133.33	133.90	-	3.39	3.39	3.26	3.25
359	Misc. machinery, except electrical	150.88	150.75	153.41	146.97	144.58	3.68	3.65	3.67	3.45	3.41

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. p 1970	July p 1970	June 1970	Aug. 1969	July 1969	Aug. p 1970	July p 1970	June 1970	Aug. 1969	July 1969
<i>Durable Goods--Continued</i>											
33	PRIMARY METAL INDUSTRIES	40.7	40.7	40.7	41.8	41.6	-	3.0	3.1	4.2	3.9
331	Blast furnace and basic steel products . . .	(*)	40.8	40.4	41.5	41.6	-	2.5	2.4	3.5	3.3
3312	Blast furnaces and steel mills	-	40.7	40.2	41.3	41.5	-	-	-	-	-
332	Iron and steel foundries	(*)	40.9	40.9	42.0	41.2	-	4.1	4.2	5.0	4.3
3321	Gray iron foundries	-	40.5	40.5	42.3	40.9	-	-	-	-	-
3322	Malleable iron foundries	-	39.9	40.2	42.1	40.9	-	-	-	-	-
3323	Steel foundries	-	42.0	42.1	41.3	42.0	-	-	-	-	-
333,4	Nonferrous metals	41.8	41.9	41.5	42.3	42.6	-	4.5	4.4	4.8	4.9
3334	Primary aluminum	-	41.1	40.6	41.6	41.5	-	-	-	-	-
335	Nonferrous rolling and drawing	(*)	40.7	41.3	42.7	42.3	-	3.2	3.7	5.1	4.7
3351	Copper rolling and drawing	-	40.0	41.4	43.5	43.0	-	-	-	-	-
3352	Aluminum rolling and drawing	-	40.9	40.9	42.4	42.0	-	-	-	-	-
3357	Nonferrous wire drawing and insulating . .	-	40.8	41.4	42.7	42.0	-	-	-	-	-
336	Nonferrous foundries	(*)	39.2	40.2	40.8	40.5	-	2.5	3.0	3.7	3.6
3361	Aluminum castings	-	38.5	40.0	40.6	40.2	-	-	-	-	-
3362,9	Other nonferrous castings	-	40.1	40.4	41.0	40.8	-	-	-	-	-
339	Miscellaneous primary metal products . . .	(*)	39.1	40.4	41.7	41.9	-	2.5	3.5	5.1	5.1
3391	Iron and steel forgings	-	38.6	40.1	41.3	41.5	-	-	-	-	-
34	FABRICATED METAL PRODUCTS	40.7	40.9	41.1	41.7	41.2	-	3.4	3.5	4.3	4.0
341	Metal cans	43.7	45.1	44.0	45.7	44.8	-	5.9	5.3	6.7	5.6
342	Cutlery, hand tools, and hardware	40.2	39.4	40.2	40.7	40.4	-	2.0	2.3	3.0	2.7
3421,3,5	Cutlery and hand tools, incl. saws	-	39.1	39.8	40.5	40.5	-	-	-	-	-
3429	Hardware, n e c	-	39.7	40.5	40.9	40.4	-	-	-	-	-
343	Plumbing and heating, except electric . . .	39.9	39.6	39.5	40.5	40.0	-	2.3	2.3	3.3	2.9
3431,2	Sanitary ware & plumbers' brass goods . .	-	38.9	39.3	40.2	39.1	-	-	-	-	-
3433	Heating equipment, except electric	-	40.1	39.8	40.8	40.7	-	-	-	-	-
344	Fabricated structural metal products	40.4	40.5	40.6	41.3	41.2	-	2.9	3.0	4.0	3.9
3441	Fabricated structural steel	-	41.8	41.2	41.6	41.4	-	-	-	-	-
3442	Metal doors, sash, and trim	-	39.4	39.2	40.1	39.6	-	-	-	-	-
3443	Fabricated plate work (boiler shops) . . .	-	40.4	41.2	42.1	42.0	-	-	-	-	-
3444	Sheet metal work	-	39.7	39.9	41.0	41.0	-	-	-	-	-
3446,9	Architectural and misc. metal work	-	40.8	40.6	41.6	41.9	-	-	-	-	-
345	Screw machine products, bolts, etc.	(*)	40.5	40.8	43.0	42.4	-	3.0	3.4	5.5	4.6
3451	Screw machine products	-	40.4	40.5	41.9	41.9	-	-	-	-	-
3452	Bolts, nuts, rivets, and washers	-	40.5	41.0	44.0	42.9	-	-	-	-	-
346	Metal stampings	(*)	43.1	43.6	42.3	41.1	-	5.2	5.3	4.8	4.9
347	Metal services, n e c	(*)	39.4	39.9	40.9	40.7	-	3.9	4.2	4.2	4.1
348	Misc. fabricated wire products	39.3	39.7	40.1	40.7	40.1	-	2.7	2.8	3.9	3.3
349	Misc. fabricated metal products	40.5	39.7	40.4	41.2	40.9	-	2.5	2.8	3.9	3.7
3494,8	Valves, pipe, and pipe fittings	-	39.5	40.3	41.4	41.1	-	-	-	-	-
35	MACHINERY, EXCEPT ELECTRICAL	40.4	40.6	41.2	42.0	41.8	-	2.8	3.3	4.2	4.1
351	Engines and turbines	41.2	40.7	40.8	40.3	40.3	-	3.2	3.7	3.9	3.9
3511	Steam engines and turbines	-	41.8	41.6	41.2	40.2	-	-	-	-	-
3519	Internal combustion engines, n e c	-	40.1	40.4	39.9	40.3	-	-	-	-	-
352	Farm machinery	-	39.3	39.7	40.2	38.9	-	1.8	2.4	2.6	1.9
353	Construction and related machinery	(*)	40.4	40.9	41.7	42.5	-	2.5	2.8	3.9	4.3
3531,2	Construction and mining machinery	-	40.6	40.9	41.5	42.2	-	-	-	-	-
3533	Oil field machinery	-	40.8	41.9	42.7	42.7	-	-	-	-	-
3535,6	Conveyors, hoists, cranes, monorails . . .	-	40.3	40.8	41.9	43.7	-	-	-	-	-
3537	Industrial trucks and tractors	-	37.6	38.4	41.5	42.2	-	-	-	-	-
354	Metal working machinery	(*)	41.9	42.5	43.7	43.4	-	3.9	4.5	5.6	5.5
3541	Machine tools, metal cutting types	-	40.8	41.3	43.4	42.7	-	-	-	-	-
3544	Special dies, tools, jigs, & fixtures	-	43.4	44.5	44.7	44.6	-	-	-	-	-
3545	Machine tool accessories	-	40.0	41.1	42.0	42.2	-	-	-	-	-
3542,8	Misc. metal working machinery	-	41.3	40.8	43.4	42.8	-	-	-	-	-
355	Special industry machinery	40.4	40.5	41.2	42.3	41.9	-	2.9	3.1	4.5	4.2
3551	Food products machinery	-	40.3	41.6	41.6	41.4	-	-	-	-	-
3552	Textile machinery	-	41.0	41.1	42.2	41.8	-	-	-	-	-
3555	Printing trades machinery	-	40.0	40.2	41.3	41.7	-	-	-	-	-
356	General industrial machinery	39.9	40.3	40.5	42.1	41.4	-	2.5	2.9	4.4	3.9
3561	Pumps and compressors	-	41.1	41.4	41.8	40.6	-	-	-	-	-
3562	Ball and roller bearings	-	38.8	38.9	42.7	41.3	-	-	-	-	-
3564	Blowers and fans	-	41.6	41.5	42.8	42.4	-	-	-	-	-
3566	Power transmission equipment	-	40.7	41.2	42.2	42.4	-	-	-	-	-
357	Office and computing machines	(*)	40.3	40.9	40.8	41.0	-	1.4	2.4	2.6	3.0
3573	Electronic computing equipment	-	41.3	41.6	41.7	40.8	-	-	-	-	-
358	Service industry machines	39.1	39.5	40.6	40.9	41.0	-	2.2	2.8	3.3	3.4
3585	Refrigeration machinery	-	39.6	40.7	40.9	41.2	-	-	-	-	-
359	Misc. machinery, except electrical	41.0	41.3	41.8	42.6	42.4	-	3.6	4.1	5.2	4.6

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

SIC code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
<i>Durable Goods--Continued</i>											
36	ELECTRICAL EQUIPMENT AND SUPPLIES...	\$131.80	\$132.14	\$130.68	\$124.93	\$122.98	\$3.32	\$3.32	\$3.30	\$3.10	\$3.09
361	Electric rest & distributing equipment...	136.34	139.60	139.66	131.11	132.34	3.40	3.43	3.44	3.19	3.22
3611	Electric measuring instruments	—	121.52	121.44	118.08	117.41	—	3.10	3.09	2.93	2.95
3612	Transformers	—	144.77	141.80	134.78	135.11	—	3.48	3.45	3.24	3.24
3613	Switchgear and switchboard apparatus...	—	149.19	150.84	138.69	141.86	—	3.63	3.67	3.35	3.41
362	Electrical industrial apparatus	(*)	140.07	137.30	132.02	132.02	(*)	3.45	3.39	3.22	3.22
3621	Motors and generators	—	143.91	141.51	134.64	134.88	—	3.51	3.46	3.26	3.25
3622	Industrial controls	—	130.59	127.59	128.11	127.26	—	3.34	3.23	3.14	3.15
363	Household appliances	(*)	140.24	140.24	133.25	130.07	(*)	3.48	3.48	3.29	3.26
3632	Household refrigerators and freezers...	—	159.00	154.54	145.64	145.96	—	3.75	3.76	3.65	3.56
3633	Household laundry equipment	—	148.40	150.72	146.85	136.97	—	3.71	3.74	3.53	3.45
3634	Electric housewares and fans	—	111.25	112.50	110.43	105.38	—	2.86	2.87	2.70	2.73
364	Electric lighting and wiring equipment...	123.17	121.52	123.60	116.51	113.39	3.15	3.10	3.09	2.92	2.90
3641	Electric lamps	—	124.50	127.98	111.94	111.27	—	3.16	3.16	2.90	2.89
3642	Lighting fixtures	—	122.85	126.48	121.60	112.90	—	3.15	3.17	3.01	2.94
3643,4	Wiring devices	—	119.17	118.70	114.69	114.91	—	3.04	2.99	2.86	2.88
365	Radio and TV receiving equipment	(*)	116.52	115.13	105.15	103.41	(*)	2.98	3.07	2.71	2.70
366	Communication equipment	146.73	145.93	145.71	143.44	138.40	3.65	3.63	3.58	3.49	3.46
3661	Telephone and telegraph apparatus	—	140.49	144.20	151.37	138.50	—	3.53	3.50	3.57	3.48
3662	Radio and TV communication equipment...	—	150.63	147.50	138.98	137.94	—	3.71	3.66	3.44	3.44
367	Electronic components and accessories...	(*)	112.33	111.93	105.59	104.13	(*)	2.91	2.87	2.68	2.67
3671-3	Electron tubes	—	128.25	126.40	116.61	112.71	—	3.28	3.20	2.93	2.89
3674,9	Other electronic components	—	108.96	108.92	103.36	101.92	—	2.83	2.80	2.63	2.62
369	Misc. electrical equipment & supplies...	139.95	141.55	143.02	134.72	134.27	3.49	3.53	3.54	3.31	3.34
3694	Engine electrical equipment	—	148.34	150.66	138.75	140.00	—	3.69	3.72	3.46	3.50
37	TRANSPORTATION EQUIPMENT	169.33	166.06	170.56	158.76	162.24	4.09	4.08	4.10	3.92	3.90
371	Motor vehicles and equipment	(*)	176.76	183.61	165.17	175.55	(*)	4.28	4.29	4.15	4.16
3711	Motor vehicles	—	176.51	188.76	164.63	185.31	—	4.38	4.40	4.39	4.35
3712	Passenger car bodies	—	191.63	191.27	153.08	191.74	—	4.72	4.62	4.30	4.48
3713	Truck and bus bodies	—	137.55	138.80	136.82	137.89	—	3.50	3.47	3.37	3.43
3714	Motor vehicle parts and accessories	—	182.76	185.32	172.99	173.45	—	4.27	4.27	4.08	4.12
3715	Truck trailers	—	129.75	129.10	123.01	123.01	—	3.31	3.26	3.06	3.06
372	Aircraft and parts	(*)	167.28	166.87	162.21	159.33	(*)	4.10	4.08	3.89	3.83
3721	Aircraft	—	168.92	167.69	165.03	160.09	—	4.13	4.11	3.92	3.83
3722	Aircraft engines and engine parts	—	164.41	164.42	157.16	157.90	—	4.10	4.09	3.89	3.87
3723,9	Other aircraft parts and equipment	—	166.83	167.60	159.56	158.42	—	4.02	4.00	3.79	3.79
373	Ship and boat building and repairing	(*)	148.55	148.16	145.48	145.25	(*)	3.78	3.77	3.61	3.56
3731	Ship building and repairing	—	155.62	154.06	153.18	154.25	—	3.92	3.92	3.82	3.79
3732	Boat building and repairing	—	118.18	124.19	117.62	114.93	—	3.16	3.16	2.89	2.81
374	Railroad equipment	—	154.44	169.70	157.08	157.06	—	3.96	4.19	3.85	3.84
375,9	Other transportation equipment	—	120.43	120.65	115.63	115.92	—	3.08	3.07	2.92	2.92
38	INSTRUMENTS AND RELATED PRODUCTS	132.73	132.53	133.39	128.21	126.77	3.31	3.33	3.31	3.15	3.13
381	Engineering & scientific instruments	—	148.13	149.92	146.56	148.39	—	3.75	3.72	3.54	3.55
382	Mechanical measuring & control devices...	131.47	131.74	131.08	125.42	124.00	3.32	3.31	3.31	3.12	3.10
3821	Mechanical measuring devices	—	134.60	135.34	128.30	127.17	—	3.34	3.35	3.16	3.14
3822	Automatic temperature controls	—	128.58	125.51	121.27	120.17	—	3.28	3.26	3.07	3.05
383,5	Optical and ophthalmic goods	121.35	121.66	123.22	119.29	116.72	3.08	3.08	3.05	2.96	2.94
385	Ophthalmic goods	—	112.50	113.72	108.38	105.84	—	2.87	2.85	2.73	2.70
384	Medical instruments and supplies	112.33	109.91	112.90	109.45	109.45	2.91	2.90	2.88	2.75	2.75
386	Photographic equipment and supplies	(*)	162.18	161.77	158.42	152.34	(*)	3.88	3.87	3.71	3.61
387	Watches, clocks, and watchcases	—	112.87	114.62	99.31	95.59	—	2.78	2.83	2.54	2.47
39	MISC. MANUFACTURING INDUSTRIES	109.59	108.19	108.75	103.22	101.64	2.81	2.81	2.81	2.64	2.64
391	Jewelry, silverware, and plated ware	(*)	117.27	119.03	113.29	108.11	(*)	3.07	3.06	2.89	2.86
394	Toys and sporting goods	—	98.04	98.04	91.39	89.73	—	2.58	2.58	2.38	2.38
3941-3	Games, toys, dolls & play vehicles	—	94.25	92.63	87.10	84.96	—	2.50	2.49	2.28	2.29
3949	Sporting and athletic goods, n e c	—	103.68	105.96	98.42	97.14	—	2.70	2.71	2.53	2.51
395	Pens, pencils, office and art supplies	—	107.54	112.03	102.70	104.01	—	2.86	2.88	2.60	2.66
396	Costume jewelry and notions	—	100.36	100.22	93.73	93.84	—	2.58	2.55	2.46	2.45
393,9	Other manufacturing industries	118.29	117.00	116.70	114.51	111.72	3.01	3.00	3.00	2.87	2.85
393	Musical instruments and parts	—	111.34	113.58	110.54	106.92	—	2.93	2.95	2.82	2.77
<i>Nondurable Goods</i>											
20	FOOD AND KINDRED PRODUCTS	126.48	128.61	127.58	121.72	122.36	3.10	3.16	3.15	2.94	2.97
201	Meat products	137.35	137.76	136.20	130.42	130.82	3.35	3.36	3.33	3.12	3.16
2011	Meat packing plants	—	166.84	164.72	155.24	157.14	—	4.03	3.95	3.67	3.68
2013	Sausages and other prepared meats	—	151.06	147.60	144.35	147.35	—	3.64	3.60	3.47	3.50
2015	Poultry dressing plants	—	87.64	85.32	84.05	80.16	—	2.18	2.16	2.05	2.05

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**
**C-2: Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
<i>Durable Goods--Continued</i>											
36	ELECTRICAL EQUIPMENT AND SUPPLIES	39.7	39.8	39.6	40.3	39.8	-	2.3	2.4	2.9	2.6
361	Electric test & distributing equipment	40.1	40.7	40.6	41.1	41.1	-	2.4	2.5	3.1	3.4
3611	Electric measuring instruments	-	39.2	39.3	40.3	39.8	-	-	-	-	-
3612	Transformers	-	41.6	41.1	41.6	41.7	-	-	-	-	-
3613	Switchgear and switchboard apparatus	-	41.1	41.1	41.4	41.6	-	-	-	-	-
362	Electrical industrial apparatus	(*)	40.6	40.5	41.0	41.0	-	2.8	2.9	3.6	3.6
3621	Motors and generators	-	41.0	40.9	41.3	41.5	-	-	-	-	-
3622	Industrial controls	-	39.1	39.5	40.8	40.4	-	-	-	-	-
363	Household appliances	(*)	40.3	40.3	40.5	39.9	-	3.2	2.7	3.6	2.5
3632	Household refrigerators and freezers	-	42.4	41.1	39.9	41.0	-	-	-	-	-
3633	Household laundry equipment	-	40.0	40.3	41.6	39.7	-	-	-	-	-
3634	Electric housewares and fans	-	38.9	39.2	40.9	38.6	-	-	-	-	-
364	Electric lighting and wiring equipment	39.1	39.2	40.0	39.9	39.1	-	2.0	2.2	2.6	2.1
3641	Electric lamps	-	39.4	40.5	38.6	38.5	-	-	-	-	-
3642	Lighting fixtures	-	39.0	39.9	40.4	38.4	-	-	-	-	-
3643,4	Wiring devices	-	39.2	39.7	40.1	39.9	-	-	-	-	-
365	Radio and TV receiving equipment	(*)	39.1	37.5	38.8	38.3	-	1.7	1.0	1.7	1.4
366	Communication equipment	40.2	40.2	40.7	41.1	40.0	-	2.1	3.0	3.5	2.8
3661	Telephone and telegraph apparatus	-	39.8	41.2	42.4	39.8	-	-	-	-	-
3662	Radio and TV communication equipment	-	40.6	40.3	40.4	40.1	-	-	-	-	-
367	Electronic components and accessories	(*)	38.6	39.0	39.4	39.0	-	1.8	1.7	2.2	2.1
3671-3	Electron tubes	-	39.1	39.5	39.8	39.0	-	-	-	-	-
3674,9	Other electronic components	-	38.5	38.9	39.3	38.9	-	-	-	-	-
369	Misc. electrical equipment & supplies	40.1	40.1	40.4	40.7	40.2	-	2.1	2.3	2.7	2.5
3694	Engine electrical equipment	-	40.2	40.5	40.1	40.0	-	-	-	-	-
37	TRANSPORTATION EQUIPMENT	41.4	40.7	41.6	40.5	41.6	-	3.5	3.7	3.7	4.0
371	Motor vehicles and equipment	(*)	41.3	42.8	39.8	42.2	-	4.3	4.8	4.1	4.6
3711	Motor vehicles	-	40.3	42.9	37.5	42.6	-	-	-	-	-
3712	Passenger car bodies	-	40.6	41.4	35.6	42.8	-	-	-	-	-
3713	Truck and bus bodies	-	39.3	40.0	40.6	40.2	-	-	-	-	-
3714	Motor vehicle parts and accessories	-	42.8	43.4	42.4	42.1	-	-	-	-	-
3715	Truck trailers	-	39.2	39.6	40.2	40.2	-	-	-	-	-
372	Aircraft and parts	(*)	40.8	40.9	41.7	41.6	-	2.6	2.5	3.3	3.5
3721	Aircraft	-	40.9	40.8	42.1	41.8	-	-	-	-	-
3722	Aircraft engines and engine parts	-	40.1	40.2	40.4	40.8	-	-	-	-	-
3723,9	Other aircraft parts and equipment	-	41.5	41.9	42.1	41.8	-	-	-	-	-
373	Ship and boat building and repairing	(*)	39.3	39.3	40.3	40.8	-	2.7	2.5	3.9	3.6
3731	Ship building and repairing	-	39.7	39.3	40.1	40.7	-	-	-	-	-
3732	Boat building and repairing	-	37.4	39.3	40.7	40.9	-	-	-	-	-
374	Railroad equipment	-	39.0	40.5	40.8	40.9	-	1.4	3.1	3.8	3.4
375,9	Other transportation equipment	-	39.1	39.3	39.6	39.7	-	2.8	2.5	2.9	2.9
38	INSTRUMENTS AND RELATED PRODUCTS	40.1	39.8	40.3	40.7	40.5	-	2.2	2.4	2.8	2.6
381	Engineering & scientific instruments	-	39.5	40.3	41.4	41.8	-	2.0	2.3	3.2	3.3
382	Mechanical measuring & control devices	39.6	39.8	39.6	40.2	40.0	-	2.8	2.4	2.9	2.8
3821	Mechanical measuring devices	-	40.3	40.4	40.6	40.5	-	-	-	-	-
3822	Automatic temperature controls	-	39.2	38.5	39.5	39.4	-	-	-	-	-
383,5	Optical and ophthalmic goods	39.4	39.5	40.4	40.3	39.7	-	2.3	2.5	2.5	2.2
385	Ophthalmic goods	-	39.2	39.9	39.7	39.2	-	2.1	2.1	2.0	1.8
384	Medical instruments and supplies	38.6	37.9	39.2	39.8	39.8	-	1.5	1.8	2.2	2.1
386	Photographic equipment and supplies	(*)	41.8	41.8	42.7	42.2	-	2.2	2.6	3.5	2.8
387	Watches, clocks, and watch cases	-	40.6	40.5	39.1	38.7	-	2.2	2.7	1.9	1.6
39	MISC. MANUFACTURING INDUSTRIES	39.0	38.5	38.7	39.1	38.5	-	1.7	2.1	2.6	2.1
391	Jewelry, silverware, and plated ware	(*)	38.2	38.9	39.2	37.8	-	1.4	1.9	2.7	1.7
394	Toys and sporting goods	-	38.0	38.0	38.4	37.7	-	1.7	1.9	2.3	1.9
3941-3	Games, toys, dolls, & play vehicles	-	37.7	37.2	38.2	37.1	-	-	-	-	-
3949	Sporting and athletic goods, n.e.c.	-	38.4	39.1	38.9	38.7	-	-	-	-	-
395	Pens, pencils, office and art supplies	-	37.6	38.9	39.5	39.1	-	1.0	1.6	2.3	1.9
396	Costume jewelry and notions	-	38.9	39.3	38.1	38.3	-	1.8	2.5	2.4	2.0
393,9	Other manufacturing industries	39.3	39.0	38.9	39.9	39.2	-	1.9	2.2	3.0	2.5
393	Musical instruments and parts	-	38.0	38.5	39.2	38.6	-	1.1	1.4	2.2	1.3
<i>Nondurable Goods</i>											
20	FOOD AND KINDRED PRODUCTS	40.8	40.7	40.5	41.4	41.2	-	4.1	4.0	4.5	4.5
201	Meat products	41.0	41.0	40.9	41.8	41.4	-	4.5	4.5	4.9	4.9
2011	Meat packing plants	-	41.4	41.7	42.3	42.7	-	-	-	-	-
2013	Sausages and other prepared meats	-	41.5	41.0	41.6	42.1	-	-	-	-	-
2015	Poultry dressing plants	-	40.2	39.5	41.0	39.1	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. p 1970	July p 1970	June 1970	Aug. 1969	July 1969	Aug. p 1970	July p 1970	June 1970	Aug. 1969	July 1969
<i>Nondurable Goods--Continued</i>											
FOOD AND KINDRED PRODUCTS--Continued											
202	Dairy products.....	(*)	\$137.05	\$135.46	\$127.87	\$129.68	(*)	\$3.24	\$3.21	\$3.03	\$3.03
2024	Ice cream and frozen desserts.....	-	131.55	131.58	122.43	124.53	-	3.11	3.06	2.95	2.93
2026	Fluid milk.....	-	145.27	141.96	135.79	137.38	-	3.41	3.38	3.18	3.18
203	Canned, cured, and frozen foods.....	-	101.11	98.89	102.97	98.55	-	2.64	2.63	2.53	2.54
2031,6	Canned, cured, and frozen sea foods.....	-	88.57	79.40	87.46	79.33	-	2.44	2.37	2.32	2.26
2032,3	Canned food, except sea foods.....	-	104.64	106.58	108.32	106.11	-	2.69	2.79	2.61	2.62
2037	Frozen fruits and vegetables.....	-	94.88	94.22	93.77	90.27	-	2.53	2.46	2.35	2.42
204	Grain mill products.....	(*)	148.66	143.04	140.30	137.71	(*)	3.26	3.20	3.07	3.02
2041	Flour and other grain mill products.....	-	156.49	147.60	150.37	137.25	-	3.38	3.28	3.22	3.05
2042	Prepared feeds for animals and fowls.....	-	132.16	126.96	124.82	128.16	-	2.80	2.76	2.65	2.67
205	Bakery products.....	\$128.38	130.33	127.51	122.01	123.62	\$3.25	3.25	3.22	3.02	3.03
2051	Bread, cake, and related products.....	-	132.00	129.17	123.62	125.97	-	3.30	3.27	3.06	3.08
2052	Cookies and crackers.....	-	124.64	122.31	116.35	115.43	-	3.07	3.05	2.88	2.85
206	Sugar.....	-	136.27	136.75	134.50	131.22	-	3.34	3.36	3.21	3.24
207	Confectionery and related products.....	110.48	109.48	111.72	104.00	101.66	2.79	2.80	2.80	2.60	2.60
2071	Confectionery products.....	-	104.56	107.84	99.54	98.03	-	2.73	2.73	2.52	2.52
208	Beverages.....	146.29	148.01	147.33	141.86	142.46	3.63	3.61	3.62	3.46	3.40
2082	Malt liquors.....	-	195.82	197.71	191.13	196.11	-	4.73	4.73	4.54	4.55
2086	Bottled and canned soft drinks.....	-	115.51	111.38	109.30	112.46	-	2.77	2.75	2.64	2.64
209	Misc. foods and kindred products.....	128.54	126.38	126.18	120.47	121.47	3.09	3.09	3.07	2.91	2.92
21	TOBACCO MANUFACTURES	107.73	113.70	115.14	93.38	104.15	2.85	3.04	3.03	2.49	2.77
211	Cigarettes.....	-	133.79	135.10	116.07	124.36	-	3.53	3.50	3.18	3.23
212	Cigars.....	-	79.94	81.47	78.45	77.66	-	2.19	2.22	2.07	2.06
22	TEXTILE MILL PRODUCTS	97.36	96.96	97.93	97.58	95.65	2.44	2.43	2.43	2.38	2.35
221	Weaving mills, cotton.....	(*)	99.95	98.81	99.84	97.00	(*)	2.42	2.41	2.40	2.36
222	Weaving mills, synthetics.....	(*)	99.88	100.78	104.13	105.65	(*)	2.46	2.47	2.45	2.44
223	Weaving and finishing mills, wool.....	96.89	97.64	102.56	99.72	102.97	2.51	2.51	2.52	2.45	2.44
224	Narrow fabric mills.....	(*)	96.62	97.20	94.94	93.96	(*)	2.44	2.43	2.35	2.32
225	Knitting mills.....	90.82	90.15	91.48	88.69	85.73	2.39	2.36	2.37	2.28	2.25
2251	Women's hosiery, except socks.....	-	86.01	88.22	87.36	84.29	-	2.35	2.34	2.24	2.23
2252	Hosiery, n e c.....	-	81.27	80.04	78.04	76.47	-	2.15	2.14	2.07	2.05
2253	Knit outerwear mills.....	-	94.71	94.60	89.59	83.98	-	2.46	2.47	2.37	2.32
2254	Knit underwear mills.....	-	81.91	82.06	80.35	79.25	-	2.19	2.20	2.12	2.08
226	Textile finishing, except wool.....	103.53	103.94	106.40	106.43	105.00	2.55	2.56	2.57	2.54	2.53
227	Floor covering mills.....	-	105.63	107.10	107.80	100.43	-	2.57	2.55	2.45	2.42
228	Yarn and thread mills.....	89.67	89.04	90.35	90.76	88.73	2.27	2.26	2.27	2.23	2.18
229	Miscellaneous textile goods.....	(*)	109.08	110.84	109.78	108.26	(*)	2.70	2.71	2.62	2.59
23	APPAREL AND OTHER TEXTILE PRODUCTS	84.96	84.25	84.25	83.85	81.85	2.40	2.38	2.38	2.31	2.28
231	Men's and boys' suits and coats.....	(*)	101.21	104.30	105.75	101.48	(*)	2.90	2.98	2.82	2.75
232	Men's and boys' furnishings.....	76.54	76.13	77.17	73.83	72.69	2.08	2.08	2.08	1.99	1.97
2321	Men's and boys' shirts and nightwear.....	-	74.66	75.52	71.97	71.02	-	2.04	2.03	1.94	1.93
2327	Men's and boys' separate trousers.....	-	76.43	77.58	73.46	74.05	-	2.06	2.08	1.98	1.98
2328	Men's and boys' work clothing.....	-	73.89	74.74	71.59	71.39	-	2.03	2.02	1.94	1.94
233	Women's and misses' outerwear.....	86.77	86.77	83.74	85.06	84.47	2.59	2.59	2.53	2.48	2.47
2331	Women's and misses' blouses and waists.....	-	78.65	77.40	74.61	75.60	-	2.32	2.25	2.15	2.16
2335	Women's and misses' dresses.....	-	87.96	83.32	86.35	84.92	-	2.69	2.62	2.57	2.55
2337	Women's and misses' suits and coats.....	-	99.23	95.08	96.32	96.74	-	2.98	2.89	2.80	2.78
2339	Women's and misses' outerwear, n e c.....	-	77.53	77.75	76.18	75.40	-	2.19	2.19	2.14	2.13
234	Women's and children's undergarments.....	82.21	78.19	77.47	78.02	75.45	2.21	2.16	2.17	2.12	2.09
2341	Women's and children's underwear.....	-	77.17	75.75	76.43	75.07	-	2.12	2.11	2.06	2.04
2342	Corsets and allied garments.....	-	81.30	81.08	80.64	77.73	-	2.29	2.31	2.24	2.24
235	Hats, caps, and millinery.....	-	80.71	78.98	78.99	79.86	-	2.28	2.20	2.17	2.20
236	Children's outerwear.....	81.27	80.42	79.92	75.68	76.32	2.27	2.24	2.22	2.12	2.12
2361	Children's dresses and blouses.....	-	77.57	79.78	73.50	74.40	-	2.21	2.21	2.10	2.09
237,8	Fur goods and miscellaneous apparel.....	-	88.40	87.93	87.35	88.45	-	2.49	2.47	2.38	2.45
239	Misc. fabricated textile products.....	(*)	90.90	92.88	92.44	86.81	(*)	2.45	2.49	2.42	2.34
2391,2	Housefurnishings.....	-	80.72	79.27	79.87	76.80	-	2.17	2.16	2.08	2.07
26	PAPER AND ALLIED PRODUCTS	145.18	144.70	142.61	141.37	140.61	3.49	3.47	3.42	3.28	3.27
261,2,6	Paper and pulp mills.....	(*)	166.61	162.06	163.07	163.44	(*)	3.83	3.76	3.64	3.64
263	Paperboard mills.....	170.87	176.85	167.14	166.90	166.52	3.91	3.93	3.79	3.66	3.62
264	Misc. converted paper products.....	124.97	125.51	125.02	120.83	119.02	3.14	3.13	3.11	2.94	2.91
2643	Bags, except textile bags.....	-	120.80	119.50	114.65	113.68	-	3.02	2.98	2.81	2.80
265	Paperboard containers and boxes.....	(*)	127.12	128.70	128.41	125.82	(*)	3.17	3.17	3.05	3.01
2651,2	Folding and setup paperboard boxes.....	-	118.01	121.00	116.31	111.76	-	2.98	3.01	2.83	2.78
2653	Corrugated and solid fiber boxes.....	-	133.72	135.71	138.03	136.42	-	3.31	3.31	3.21	3.18
2654	Sanitary food containers.....	-	129.27	129.37	124.98	125.80	-	3.13	3.14	2.99	2.96

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**
**C-2: Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
	<i>Nondurable Goods--Continued</i>										
	FOOD AND KINDRED PRODUCTS--Continued										
202	Dairy products	(*)	42.3	42.2	42.2	42.8	-	4.4	4.5	4.1	4.6
2024	Ice cream and frozen desserts	-	42.3	43.0	41.5	42.5	-	-	-	-	-
2026	Fluid milk	-	42.6	42.0	42.7	43.2	-	-	-	-	-
203	Canned, cured, and frozen foods	-	38.3	37.6	40.7	38.8	-	3.1	3.0	4.1	3.6
2031.6	Canned, cured and frozen sea foods	-	36.3	33.5	37.7	35.1	-	-	-	-	-
2032.3	Canned food, except sea foods	-	38.9	38.2	41.5	40.5	-	-	-	-	-
2037	Frozen fruits and vegetables	-	37.5	38.3	39.9	37.3	-	-	-	-	-
204	Grain mill products	(*)	45.6	44.7	45.7	45.6	-	7.4	6.5	7.5	7.4
2041	Flour and other grain mill product	-	46.3	45.0	46.7	45.0	-	-	-	-	-
2042	Prepared feeds for animals and fowls	-	47.2	46.0	47.1	48.0	-	-	-	-	-
205	Bakery products	39.5	40.1	39.6	40.4	40.8	-	3.6	3.4	3.9	4.2
2051	Bread, cake, and related products	-	40.0	39.5	40.4	40.9	-	-	-	-	-
2052	Cookies and crackers	-	40.6	40.1	40.4	40.5	-	-	-	-	-
206	Sugar	-	40.8	40.7	41.9	40.5	-	3.8	3.8	4.4	4.1
207	Confectionery and related products	39.6	39.1	39.9	40.0	39.1	-	2.2	2.9	3.1	2.2
2071	Confectionery products	-	38.3	39.5	39.5	38.9	-	-	-	-	-
208	Beverages	40.3	41.0	40.7	41.0	41.9	-	3.8	3.7	4.1	5.0
2082	Malt liquors	-	41.4	41.8	42.1	43.1	-	-	-	-	-
2086	Bottled and canned soft drinks	-	41.7	40.5	41.4	42.6	-	-	-	-	-
209	Misc. foods and kindred products	41.6	40.9	41.1	41.4	41.6	-	4.4	4.1	4.7	4.7
21	TOBACCO MANUFACTURES	37.8	37.4	38.0	37.5	37.6	-	1.5	1.4	1.5	1.7
211	Cigarettes	-	37.9	38.6	36.5	38.5	-	2.1	1.5	1.1	2.2
212	Cigars	-	36.5	36.7	37.9	37.7	-	.5	1.1	1.2	1.0
22	TEXTILE MILL PRODUCTS	39.9	39.9	40.3	41.0	40.7	-	3.1	3.3	4.0	3.8
221	Weaving mills, cotton	(*)	41.3	41.0	41.6	41.1	-	4.0	3.8	4.3	3.9
222	Weaving mills, synthetics	(*)	40.6	40.8	42.5	43.3	-	2.8	3.3	4.6	4.9
223	Weaving and finishing mills, wool	38.6	38.9	40.7	40.7	42.2	-	2.5	3.4	3.6	4.4
224	Narrow fabric mills	(*)	39.6	40.0	40.4	40.5	-	2.2	2.4	3.4	3.1
225	Knitting mills	38.0	38.2	38.6	38.9	38.1	-	2.5	2.7	2.8	2.7
2251	Women's hosiery, except socks	-	36.6	37.7	39.0	37.8	-	-	-	-	-
2252	Hosiery, n e c	-	37.8	37.4	37.7	37.3	-	-	-	-	-
2253	Knit outerwear mills	-	38.5	38.3	37.8	36.2	-	-	-	-	-
2254	Knit underwear mills	-	37.4	37.3	37.9	38.1	-	-	-	-	-
226	Textile finishing, except wool	40.6	40.6	41.4	41.9	41.5	-	3.5	4.0	5.0	4.6
227	Floor covering mills	-	41.1	42.0	44.0	41.5	-	3.5	3.6	6.0	4.5
228	Yarn and thread mills	39.5	39.4	39.8	40.7	40.7	-	2.9	3.3	3.7	3.7
229	Miscellaneous textile goods	(*)	40.4	40.9	41.9	41.8	-	3.1	3.6	4.7	4.1
23	APPAREL AND OTHER TEXTILE PRODUCTS	35.4	35.4	35.4	36.3	35.9	-	1.0	1.2	1.4	1.2
231	Men's and boys' suits and coats	(*)	34.9	35.0	37.5	36.9	-	.2	.8	1.4	.8
232	Men's and boys' furnishings	36.6	36.6	37.1	37.1	36.9	-	1.1	1.3	1.3	1.1
2321	Men's and boys' shirts and nightwear	-	36.6	37.2	37.1	36.8	-	-	-	-	-
2327	Men's and boys' separate trousers	-	37.1	37.3	37.1	37.4	-	-	-	-	-
2328	Men's and boys' work clothing	-	36.4	37.0	36.9	36.8	-	-	-	-	-
233	Women's and misses' outerwear	33.5	33.5	33.1	34.3	34.2	-	.9	1.1	1.2	1.1
2331	Women's and misses' blouses and waists	-	33.9	34.4	34.7	35.0	-	-	-	-	-
2335	Women's and misses' dresses	-	32.7	31.8	33.6	33.3	-	-	-	-	-
2337	Women's and misses' suits and coats	-	33.3	32.9	34.4	34.8	-	-	-	-	-
2339	Women's and misses' outerwear, n e c	-	35.4	35.5	35.6	35.4	-	-	-	-	-
234	Women's and children's undergarments	37.2	36.2	35.7	36.8	36.1	-	1.2	1.1	1.5	1.3
2341	Women's and children's underwear	-	36.4	35.9	37.1	36.8	-	-	-	-	-
2342	Corsets and allied garments	-	35.5	35.1	36.0	34.7	-	-	-	-	-
235	Hats, caps, and millinery	-	35.4	35.9	36.4	36.3	-	.8	.9	1.2	1.5
236	Children's outerwear	35.8	35.9	36.0	35.7	36.0	-	1.3	1.3	1.4	1.1
2361	Children's dresses and blouses	-	35.1	36.1	35.0	35.6	-	-	-	-	-
237.8	Fur goods and miscellaneous apparel	-	35.5	35.6	36.7	36.1	-	.9	.9	1.3	.9
239	Misc. fabricated textile products	(*)	37.1	37.3	38.2	37.1	-	1.5	1.6	2.1	1.8
2391.2	Housefurnishings	-	37.2	36.7	38.4	37.1	-	-	-	-	-
26	PAPER AND ALLIED PRODUCTS	41.6	41.7	41.7	43.1	43.0	-	4.5	4.5	5.5	5.5
261.2,6	Paper and pulp mills	(*)	43.5	43.1	44.8	44.9	-	5.9	5.7	6.6	6.9
263	Paperboard mills	43.7	45.0	44.1	45.6	46.0	-	7.5	6.8	8.0	8.2
264	Misc. converted paper products	39.8	40.1	40.2	41.1	40.9	-	2.8	3.0	3.9	3.8
2643	Bags, except textile bags	-	40.0	40.1	40.8	40.6	-	-	-	-	-
265	Paperboard containers and boxes	(*)	40.1	40.6	42.1	41.8	-	3.3	3.7	5.0	4.7
2651.2	Folding and setup paperboard boxes	-	39.6	40.2	41.1	40.2	-	-	-	-	-
2653	Corrugated and solid fiber boxes	-	40.4	41.0	43.0	42.9	-	-	-	-	-
2654	Sanitary food containers	-	41.3	41.2	41.8	42.5	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
	<i>Nondurable Goods--Continued</i>										
27	PRINTING AND PUBLISHING	\$149.31	\$148.18	\$147.03	\$142.82	\$141.31	\$3.95	\$3.92	\$3.90	\$3.70	\$3.68
271	Newspapers.....	151.23	150.52	151.01	145.84	144.68	4.26	4.24	4.23	4.04	4.03
272	Periodicals.....	-	167.26	168.89	163.49	163.49	-	4.14	4.17	3.93	3.93
273	Books.....	-	135.49	135.76	133.42	132.36	-	3.51	3.49	3.27	3.26
275	Commercial printing.....	156.38	154.82	152.86	148.10	145.82	4.02	3.98	3.96	3.74	3.72
2751	Commercial printing, ex. lithographic.....	-	150.15	149.00	142.99	140.79	-	3.86	3.86	3.62	3.61
2752	Commercial printing, lithographic.....	-	161.85	159.03	156.79	153.24	-	4.15	4.12	3.91	3.86
278	Blankbooks and bookbinding.....	(*)	113.45	111.89	106.88	107.16	(*)	2.97	2.96	2.82	2.82
274,6,7,9	Other publishing & printing ind.....	148.22	146.68	141.40	143.13	140.04	3.88	3.86	3.81	3.67	3.60
28	CHEMICALS AND ALLIED PRODUCTS	154.42	153.59	152.72	145.95	145.53	3.73	3.71	3.68	3.50	3.49
281	Industrial chemicals.....	(*)	172.58	170.10	163.31	163.63	(*)	4.08	4.05	3.87	3.85
2812	Alkalies and chlorine.....	-	183.02	175.10	169.69	169.26	-	4.15	4.12	3.91	3.90
2818	Industrial organic chemicals, n e c.....	-	182.33	181.90	172.55	175.82	-	4.27	4.28	4.06	4.07
2819	Industrial inorganic chemicals, n e c.....	-	162.33	160.22	156.00	153.14	-	3.94	3.87	3.75	3.69
282	Plastics materials and synthetics.....	150.88	152.72	151.01	145.51	146.20	3.68	3.68	3.63	3.44	3.44
2821	Plastics materials and resins.....	-	163.31	164.05	156.45	155.43	-	3.87	3.86	3.63	3.64
2823,4	Synthetic fibers.....	-	140.76	137.90	133.95	136.63	-	3.45	3.38	3.22	3.23
283	Drugs.....	140.49	141.65	142.61	134.64	132.76	3.53	3.55	3.53	3.30	3.27
2834	Pharmaceutical preparations.....	-	135.14	136.40	130.17	129.12	-	3.43	3.41	3.23	3.22
284	Soap, cleaners, and toilet goods.....	150.55	150.06	150.70	140.70	139.73	3.69	3.66	3.64	3.44	3.45
2841	Soap and other detergents.....	-	193.40	192.13	184.89	184.46	-	4.54	4.51	4.27	4.33
2844	Toilet preparations.....	-	118.50	121.47	109.48	106.96	-	2.97	2.97	2.80	2.80
285	Paints and allied products.....	145.67	146.08	145.18	134.89	134.31	3.51	3.52	3.49	3.29	3.26
287	Agricultural chemicals.....	132.19	129.90	125.05	122.72	122.18	3.17	3.13	3.05	2.95	2.93
2871,2	Fertilizers, complete & mixing only.....	-	125.10	118.78	115.92	115.37	-	3.00	2.89	2.80	2.78
286,9	Other chemical products.....	(*)	140.01	142.49	136.61	135.86	(*)	3.39	3.45	3.34	3.33
2892	Explosives.....	-	143.45	145.89	139.55	136.97	-	3.65	3.62	3.48	3.45
29	PETROLEUM AND COAL PRODUCTS	185.74	185.75	181.04	171.17	175.71	4.26	4.27	4.23	3.99	4.03
291	Petroleum refining.....	191.33	191.72	188.21	177.24	182.75	4.46	4.49	4.46	4.22	4.26
295,9	Other petroleum and coal products.....	166.81	166.52	158.78	152.64	153.55	3.65	3.62	3.56	3.34	3.36
30	RUBBER AND PLASTICS PRODUCTS, N E C	128.39	128.56	127.26	126.28	126.07	3.17	3.19	3.15	3.08	3.09
301	Tires and inner tubes.....	(*)	177.24	173.44	188.29	189.57	(*)	4.22	4.22	4.26	4.26
302,3,6	Other rubber products.....	126.05	125.51	123.82	122.31	120.70	3.12	3.13	3.08	3.02	3.01
302	Rubber footwear.....	-	108.67	105.73	103.47	107.46	-	2.71	2.67	2.66	2.70
307	Miscellaneous plastics products.....	113.60	113.54	114.17	107.33	106.13	2.84	2.86	2.84	2.67	2.66
31	LEATHER AND LEATHER PRODUCTS	91.64	93.74	94.87	87.19	87.52	2.47	2.48	2.49	2.35	2.34
311	Leather tanning and finishing.....	120.04	119.03	125.33	117.41	113.88	3.07	3.06	3.11	2.95	2.92
314	Footwear, except rubber.....	89.54	91.96	92.83	84.04	85.50	2.42	2.42	2.43	2.29	2.28
312,3,5-7,9	Other leather products.....	88.69	89.55	89.06	85.93	84.04	2.41	2.44	2.42	2.31	2.29
316	Luggage.....	-	90.11	89.92	86.30	82.01	-	2.51	2.54	2.32	2.31
317	Handbags and personal leather goods.....	-	87.11	88.13	83.85	83.55	-	2.38	2.35	2.26	2.24
-	TRANSPORTATION AND PUBLIC UTILITIES	159.10	159.06	156.29	149.74	150.02	3.89	3.87	3.84	3.67	3.65
4011	RAILROAD TRANSPORTATION Class I railroads ²	-	(*)	(*)	161.25	166.28	-	(*)	(*)	3.75	3.72
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation.....	-	147.40	143.31	134.30	134.30	-	3.42	3.38	3.16	3.16
413	Intercity highway transportation.....	-	170.57	172.94	176.58	168.33	-	4.12	4.05	4.05	3.97
42	TRUCKING AND WAREHOUSING	-	164.22	161.24	154.82	153.67	-	3.91	3.83	3.66	3.65
421,3	Trucking and trucking terminals.....	-	167.53	164.55	158.47	156.93	-	3.97	3.89	3.72	3.71
422	Public warehousing.....	-	122.36	121.57	111.74	113.76	-	3.09	3.07	2.88	2.88
46	PIPE LINE TRANSPORTATION	-	188.94	183.19	173.46	178.93	-	4.52	4.49	4.20	4.25
48	COMMUNICATION	-	134.70	134.41	132.33	133.17	-	3.41	3.42	3.30	3.28
481	Telephone communication.....	-	132.66	132.38	130.57	131.38	-	3.35	3.36	3.24	3.22
4817	Switchboard operating employees ³	-	95.63	95.43	95.73	96.15	-	2.74	2.75	2.63	2.62
4818	Line construction employees ⁴	-	190.68	187.23	188.20	184.61	-	4.20	4.17	4.03	3.97
482	Telegraph communication ⁵	-	158.25	157.61	148.52	150.50	-	3.75	3.64	3.47	3.50
483	Radio and television broadcasting.....	-	144.02	144.02	140.96	140.93	-	3.78	3.79	3.69	3.67

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**
**C-2: Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
	<i>Nondurable Goods--Continued</i>										
27	PRINTING AND PUBLISHING	37.8	37.8	37.7	38.6	38.4	-	2.8	2.7	3.6	3.3
271	Newspapers.....	35.5	35.5	35.7	36.1	35.9	-	2.4	2.7	3.0	2.7
272	Periodicals.....	-	40.4	40.5	41.6	41.6	-	3.7	3.7	5.7	5.6
273	Books.....	-	38.6	38.9	40.8	40.6	-	2.7	2.5	4.0	3.6
275	Commercial printing.....	38.9	38.9	38.6	39.6	39.2	-	3.3	2.9	4.1	3.5
2751	Commercial printing, ex. lithographic.....	-	38.9	38.6	39.5	39.0	-	-	-	-	-
2752	Commercial printing, lithographic.....	-	39.0	38.6	40.1	39.7	-	-	-	-	-
278	Blankbooks and bookbinding.....	(*)	38.2	37.8	37.9	38.0	-	2.1	1.7	2.3	2.2
274,6,7,9	Other publishing & printing ind.....	38.2	38.0	37.9	39.0	38.9	-	2.7	2.4	3.5	3.3
28	CHEMICALS AND ALLIED PRODUCTS ..	41.4	41.4	41.5	41.7	41.7	-	3.0	3.1	3.4	3.4
281	Industrial chemicals.....	(*)	42.3	42.0	42.2	42.5	-	3.7	3.7	3.9	3.8
2812	Alkalies and chlorine.....	-	44.1	42.5	43.4	43.4	-	-	-	-	-
2818	Industrial organic chemicals, n.e.c....	-	42.7	42.5	42.5	43.2	-	-	-	-	-
2819	Industrial inorganic chemicals, n.e.c....	-	41.2	41.4	41.6	41.5	-	-	-	-	-
282	Plastics materials and synthetics.....	41.0	41.5	41.6	42.3	42.5	-	2.7	2.7	3.5	3.4
2821	Plastics materials and resins.....	-	42.2	42.5	43.1	42.7	-	-	-	-	-
2823,4	Synthetic fibers.....	-	40.8	40.8	41.6	42.3	-	-	-	-	-
283	Drugs.....	39.8	39.9	40.4	40.8	40.6	-	2.0	2.3	3.0	3.0
2834	Pharmaceutical preparations.....	-	39.4	40.0	40.3	40.1	-	-	-	-	-
284	Soap, cleaners, and toilet goods.....	40.8	41.0	41.4	40.9	40.5	-	3.1	3.3	3.4	2.9
2841	Soap and other detergents.....	-	42.6	42.6	43.3	42.6	-	-	-	-	-
2844	Toilet preparations.....	-	39.9	40.9	39.1	38.2	-	-	-	-	-
285	Paints and allied products.....	41.5	41.5	41.6	41.0	41.2	-	3.7	3.3	3.0	3.2
287	Agricultural chemicals.....	41.7	41.5	41.0	41.6	41.7	-	3.9	3.7	3.4	3.9
2871,2	Fertilizers, complete & mixing only..	-	41.7	41.1	41.4	41.5	-	-	-	-	-
286,9	Other chemical products.....	(*)	41.3	41.3	40.9	40.8	-	2.3	2.8	2.9	3.0
2892	Explosives.....	-	39.3	40.3	40.1	39.7	-	-	-	-	-
29	PETROLEUM AND COAL PRODUCTS	43.6	43.5	42.8	42.9	43.6	-	3.8	3.9	4.0	4.4
291	Petroleum refining.....	42.9	42.7	42.2	42.0	42.9	-	2.7	3.1	2.8	3.4
295,9	Other petroleum and coal products.....	45.7	46.0	44.6	45.7	45.7	-	7.4	6.5	7.8	7.5
30	RUBBER AND PLASTICS PRODUCTS, NEC.	40.5	40.3	40.4	41.0	40.8	-	3.3	3.4	4.2	4.0
301	Tires and inner tubes.....	(*)	42.0	41.1	44.2	44.5	-	4.8	4.5	7.0	7.2
302,3,6	Other rubber products.....	40.4	40.1	40.2	40.5	40.1	-	2.8	3.0	3.6	3.2
302	Rubber footwear.....	-	40.1	39.6	38.9	39.8	-	2.3	2.7	2.6	2.5
307	Miscellaneous plastics products.....	40.0	39.7	40.2	40.2	39.9	-	3.1	3.3	3.7	3.4
31	LEATHER AND LEATHER PRODUCTS	37.1	37.8	38.1	37.1	37.4	-	1.6	1.7	1.7	1.8
311	Leather tanning and finishing.....	39.1	38.9	40.3	39.8	39.0	-	2.6	3.5	3.4	3.2
314	Footwear, except rubber.....	37.0	38.0	38.2	36.7	37.5	-	1.6	1.6	1.5	1.7
312,3,5-7,9	Other leather products.....	36.8	36.7	36.8	37.2	36.7	-	1.3	1.5	1.8	1.6
316	Luggage.....	-	35.9	35.4	37.2	35.5	-	.8	.8	2.2	1.7
317	Handbags and personal leather goods..	-	36.6	37.5	37.1	37.3	-	1.5	2.0	1.7	1.6
-	TRANSPORTATION AND PUBLIC UTILITIES	40.9	41.1	40.7	40.8	41.1	-	-	-	-	-
4011	RAILROAD TRANSPORTATION: Class I railroads ²	-	(*)	(*)	43.0	44.7	-	-	-	-	-
411	LOCAL AND INTERURBAN PASSENGER TRANSIT: Local and suburban transportation.....	-	43.1	42.8	42.5	42.5	-	-	-	-	-
413	Intercity highway transportation.....	-	41.4	42.7	43.6	42.4	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	-	42.0	42.1	42.3	42.1	-	-	-	-	-
421,3	Trucking and trucking terminals.....	-	42.2	42.3	42.6	42.3	-	-	-	-	-
422	Public warehousing.....	-	39.6	39.6	38.8	39.5	-	-	-	-	-
46	PIPE LINE TRANSPORTATION	-	41.8	40.8	41.3	42.1	-	-	-	-	-
48	COMMUNICATION	-	39.5	39.3	40.1	40.6	-	-	-	-	-
481	Telephone communication.....	-	39.6	39.4	40.3	40.8	-	-	-	-	-
4817	Switchboard operating employees ³	-	34.9	34.7	36.4	36.7	-	-	-	-	-
4818	Line construction employees ⁴	-	45.4	44.9	46.7	46.5	-	-	-	-	-
482	Telegraph communication ⁵	-	42.2	43.3	42.8	43.0	-	-	-	-	-
483	Radio and television broadcasting.....	-	38.1	38.0	38.2	38.4	-	-	-	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
-	TRANSPORTATION AND PUBLIC UTILITIES--Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES	-	\$172.64	\$169.74	\$162.24	\$162.99	-	\$4.14	\$4.11	\$3.90	\$3.89
491	Electric companies and systems	-	176.82	174.72	167.14	170.37	-	4.21	4.18	3.97	3.99
492	Gas companies and systems	-	156.56	154.22	146.73	144.84	-	3.80	3.78	3.57	3.55
493	Combination companies and systems	-	186.75	184.16	176.36	175.56	-	4.50	4.47	4.26	4.18
494-7	Water, steam, & sanitary systems	-	147.49	143.72	133.66	133.40	-	3.52	3.48	3.26	3.23
-	WHOLESALE AND RETAIL TRADE.....	\$98.64	98.37	96.12	93.70	93.08	\$2.71	2.71	2.70	2.56	2.55
50	WHOLESALE TRADE.....	138.98	137.76	136.80	131.22	130.17	3.44	3.41	3.42	3.24	3.23
501	Motor vehicles & automotive equipment	-	130.15	130.06	121.95	120.83	-	3.19	3.18	2.96	2.94
502	Drugs, chemicals, and allied products	-	140.62	139.52	132.83	131.66	-	3.56	3.55	3.38	3.35
503	Dry goods and apparel	-	126.75	126.07	121.22	121.41	-	3.38	3.38	3.19	3.17
504	Groceries and related products	-	131.56	127.20	123.41	122.78	-	3.17	3.18	3.01	2.98
506	Electrical goods	-	135.30	137.19	132.09	128.23	-	3.30	3.29	3.16	3.12
507	Hardware; plumbing & heating equipment	-	131.27	131.45	125.42	122.67	-	3.29	3.27	3.12	3.09
508	Machinery, equipment, and supplies	-	148.78	151.33	143.44	144.32	-	3.62	3.70	3.49	3.52
509	Miscellaneous wholesalers	-	140.49	137.59	133.20	130.81	-	3.53	3.51	3.33	3.32
52-59	RETAIL TRADE.....	85.64	85.16	82.86	81.19	80.96	2.44	2.44	2.43	2.30	2.30
53	Retail general merchandise	-	78.72	75.99	74.25	73.92	-	2.40	2.36	2.25	2.24
531	Department stores	-	82.69	79.57	78.48	78.15	-	2.56	2.51	2.40	2.39
532	Mail order houses	-	97.02	94.98	88.80	87.35	-	2.56	2.56	2.40	2.38
533	Variety stores	-	59.21	57.19	56.98	56.61	-	1.91	1.90	1.85	1.85
54	Food stores	-	91.19	88.44	87.21	87.04	-	2.69	2.68	2.55	2.56
541-3	Grocery, meat, and vegetable stores	-	93.37	90.58	88.49	88.58	-	2.73	2.72	2.58	2.59
56	Apparel and accessory stores	-	74.91	72.77	70.62	71.17	-	2.27	2.26	2.14	2.15
561	Men's & boys' clothing & furnishings	-	92.49	89.52	86.00	87.65	-	2.65	2.61	2.45	2.49
562	Women's ready-to-wear stores	-	66.36	64.06	64.20	64.20	-	2.10	2.08	2.00	2.00
565	Family clothing stores	-	72.87	70.93	67.80	68.14	-	2.10	2.08	2.03	2.04
566	Shoe stores	-	75.21	73.01	71.07	70.96	-	2.30	2.34	2.18	2.17
57	Furniture and home furnishings stores	-	110.84	109.00	105.64	104.71	-	2.94	2.93	2.78	2.77
571	Furniture and home furnishings	-	111.59	109.66	106.30	104.43	-	2.96	2.94	2.79	2.77
58	Eating and drinking places ⁶	-	59.94	57.96	58.29	57.44	-	1.85	1.84	1.74	1.73
52,55,59	Other retail trade	-	105.15	103.14	100.23	100.23	-	2.71	2.70	2.57	2.57
52	Building materials and farm equipment	-	114.09	112.28	107.83	107.01	-	2.81	2.80	2.63	2.61
551,2	Motor vehicle dealers	-	136.53	136.20	130.06	130.06	-	3.33	3.33	3.18	3.18
553,9	Other automotive & accessory dealers	-	113.84	111.79	110.40	108.52	-	2.73	2.72	2.61	2.59
591	Drug stores and proprietary stores	-	77.69	74.38	74.48	74.26	-	2.34	2.31	2.21	2.21
594	Book and stationery stores	-	91.17	87.30	78.90	87.54	-	2.59	2.56	2.49	2.48
598	Fuel and ice dealers	-	117.99	117.99	115.43	115.43	-	2.85	2.85	2.85	2.85
-	FINANCE, INSURANCE, AND REAL ESTATE⁷.....	113.22	112.61	111.57	108.04	107.96	3.06	3.06	3.04	2.92	2.91
60	Banking	-	102.58	101.57	98.47	98.10	-	2.78	2.76	2.64	2.63
61	Credit agencies other than banks	-	105.00	103.42	99.64	99.91	-	2.80	2.78	2.65	2.65
612	Savings and loan associations	-	102.95	100.28	96.42	98.10	-	2.76	2.74	2.62	2.63
62	Security, commodity brokers & services	-	165.54	165.61	170.29	173.07	-	4.45	4.44	4.59	4.64
63	Insurance carriers	-	121.44	120.34	114.02	113.34	-	3.30	3.27	3.09	3.08
631	Life insurance	-	123.74	121.94	116.89	116.24	-	3.39	3.35	3.22	3.22
632	Accident and health insurance	-	111.63	109.93	101.52	100.52	-	3.05	3.02	2.82	2.80
633	Fire, marine, and casualty insurance	-	121.97	121.27	114.84	114.16	-	3.27	3.26	3.03	3.02
-	SERVICES.....	97.23	98.77	96.95	92.49	92.84	2.81	2.83	2.81	2.62	2.63
701	Hotels and other lodging places: Hotels, tourist courts, and motels ⁶	-	68.45	67.57	65.34	65.70	-	1.95	1.97	1.80	1.81
721	Personal Services: Laundries and dry cleaning plants	-	78.26	78.12	73.93	73.97	-	2.18	2.17	2.02	2.01
722	Photographic studios	-	96.27	88.58	84.24	84.61	-	2.54	2.56	2.34	2.37
781	Motion pictures: Motion picture filming & distributing	-	195.16	180.91	183.77	188.60	-	4.76	4.58	4.56	4.60

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**
**C-2: Gross hours and earnings of production or nonsupervisory workers¹
on private nonagricultural payrolls, by industry--Continued**

SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969	Aug. 1970 ^P	July 1970 ^P	June 1970	Aug. 1969	July 1969
-	TRANSPORTATION AND PUBLIC UTILITIES--Continued										
49	ELECTRIC, GAS, AND SANITARY SERVICES	-	41.7	41.3	41.6	41.9	-	-	-	-	-
491	Electric companies and systems.....	-	42.0	41.8	41.8	42.1	-	-	-	-	-
492	Gas companies and systems.....	-	41.2	40.8	41.1	40.8	-	-	-	-	-
493	Combination companies and systems..	-	41.5	41.2	41.2	41.4	-	-	-	-	-
494-7	Water, steam & sanitary systems.....	-	41.9	41.3	41.0	41.3	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE.....	36.4	36.3	35.6	36.6	36.5	-	-	-	-	-
50	WHOLESALE TRADE.....	40.4	40.4	40.0	40.5	40.3	-	-	-	-	-
501	Motor vehicles & automotive equipment..	-	40.8	40.9	41.2	41.1	-	-	-	-	-
502	Drugs, chemicals, and allied products...	-	39.5	39.3	39.3	39.3	-	-	-	-	-
503	Dry goods and apparel.....	-	37.5	37.3	38.0	38.3	-	-	-	-	-
504	Groceries and related products.....	-	41.5	40.0	41.0	41.2	-	-	-	-	-
506	Electrical goods.....	-	41.0	41.7	41.8	41.1	-	-	-	-	-
507	Hardware, plumbing & heating equipment	-	39.9	40.2	40.2	39.7	-	-	-	-	-
508	Machinery, equipment, and supplies....	-	41.1	40.9	41.1	41.0	-	-	-	-	-
509	Miscellaneous wholesalers.....	-	39.8	39.2	40.0	39.4	-	-	-	-	-
52-59	RETAIL TRADE.....	35.1	34.9	34.1	35.3	35.2	-	-	-	-	-
53	Retail general merchandise.....	-	32.8	32.2	33.0	33.0	-	-	-	-	-
531	Department stores.....	-	32.3	31.7	32.7	32.7	-	-	-	-	-
532	Mail order houses.....	-	37.9	37.1	37.0	36.7	-	-	-	-	-
533	Variety stores.....	-	31.0	30.1	30.8	30.6	-	-	-	-	-
54	Food stores.....	-	33.9	33.0	34.2	34.0	-	-	-	-	-
541-3	Grocery, meat, and vegetable stores...	-	34.2	33.3	34.3	34.2	-	-	-	-	-
56	Apparel and accessory stores.....	-	33.0	32.2	33.0	33.1	-	-	-	-	-
561	Men's & boys' clothing & furnishings..	-	34.9	34.3	35.1	35.2	-	-	-	-	-
562	Women's ready-to-wear stores.....	-	31.6	30.8	32.1	32.1	-	-	-	-	-
565	Family clothing stores.....	-	34.7	34.1	33.4	33.4	-	-	-	-	-
566	Shoe stores.....	-	32.7	31.2	32.6	32.7	-	-	-	-	-
57	Furniture and home furnishings stores..	-	37.7	37.2	38.0	37.8	-	-	-	-	-
571	Furniture and home furnishings.....	-	37.7	37.3	38.1	37.7	-	-	-	-	-
58	Eating and drinking places ⁶	-	32.4	31.5	33.5	33.2	-	-	-	-	-
52,55,59	Other retail trade.....	-	38.8	38.2	39.0	39.0	-	-	-	-	-
52	Building materials and farm equipment	-	40.6	40.1	41.0	41.0	-	-	-	-	-
551,2	Motor vehicle dealers.....	-	41.0	40.9	40.9	40.9	-	-	-	-	-
553,9	Other automotive & accessory dealers..	-	41.7	41.1	42.3	41.9	-	-	-	-	-
591	Drug stores and proprietary stores...	-	33.2	32.2	33.7	33.6	-	-	-	-	-
594	Book and stationery stores.....	-	35.2	34.1	35.3	35.3	-	-	-	-	-
598	Fuel and ice dealers.....	-	41.4	41.4	40.5	40.5	-	-	-	-	-
-	FINANCE, INSURANCE, AND REAL ESTATE⁷.....	37.0	36.8	36.7	37.0	37.1	-	-	-	-	-
60	Banking.....	-	36.9	36.8	37.3	37.3	-	-	-	-	-
61	Credit agencies other than banks.....	-	37.5	37.2	37.6	37.7	-	-	-	-	-
612	Savings and loan associations.....	-	37.3	36.6	36.8	37.3	-	-	-	-	-
62	Security, commodity brokers & services..	-	37.2	37.3	37.1	37.3	-	-	-	-	-
63	Insurance carriers.....	-	36.8	36.8	36.9	36.8	-	-	-	-	-
631	Life insurance.....	-	36.5	36.4	36.3	36.1	-	-	-	-	-
632	Accident and health insurance.....	-	36.6	36.4	36.0	35.9	-	-	-	-	-
633	Fire, marine, and casualty insurance...	-	37.3	37.2	37.9	37.8	-	-	-	-	-
-	SERVICES.....	34.6	34.9	34.5	35.3	35.3	-	-	-	-	-
701	Hotels and other lodging places: Hotels, tourist courts, and motels ⁶ ...	-	35.1	34.3	36.3	36.3	-	-	-	-	-
721	Personal Services: Laundries & dry cleaning plants.....	-	35.9	36.0	36.6	36.8	-	-	-	-	-
722	Photographic studios.....	-	37.9	34.6	36.0	35.7	-	-	-	-	-
781	Motion pictures: Motion picture filming & distributing..	-	41.0	39.5	40.3	41.0	-	-	-	-	-

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

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

³ Data relate to employees in such occupations in the telephone industry as switchboard operators; service assistants; operating room instructors; and pay-station attendants. In 1968, such employees made up 32 percent of the total number of nonsupervisory employees in establishments reporting hours and earnings data.

⁴ Data relate to employees in such occupations in the telephone industry as central office 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.

⁵ Data relate to nonsupervisory employees except messengers.

⁶ Money payments only; tips, not included.

⁷ Data for nonoffice salesmen excluded from all series in this division.

* Not available.
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						
	June	May	Apr.	Mar.	Feb.	Jan.	Dec.	Nov.	Oct.	Sept.	Aug.	July	June
EXECUTIVE BRANCH													
Total employment	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	2,804.5	2,795.9
Average weekly hours	36.6	38.2	39.0	39.0	39.5	39.2	39.6	39.6	39.5	39.3	39.6	39.4	39.4
Average overtime hours . . . . .	.8	.9	1.0	.9	1.0	1.0	1.5	1.0	.9	1.0	.9	.8	1.0
Indexes (1965=100):													
Average weekly earnings	127.6	132.9	133.7	127.6	128.9	128.2	130.4	128.7	127.2	126.0	124.7	119.1	117.8
Average hourly earnings	141.2	140.9	138.9	132.5	132.2	132.5	133.3	131.6	130.4	129.8	127.5	123.7	121.1
DEPARTMENT OF DEFENSE													
Total employment	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	1,167.5	1,162.4
Average weekly hours	39.3	39.7	40.0	40.0	40.0	39.2	39.1	39.8	40.1	39.6	39.8	38.5	40.2
Average overtime hours . . . . .	.8	.7	.7	.8	.8	.8	.8	.8	.8	.9	1.0	.9	1.2
Indexes (1965=100):													
Average weekly earnings	136.0	137.9	136.4	130.2	130.2	127.3	128.1	128.4	126.8	125.2	123.8	118.4	118.2
Average hourly earnings	141.1	141.7	139.1	132.7	132.7	132.4	133.6	131.6	129.0	129.0	126.9	125.5	120.0
POST OFFICE DEPARTMENT													
Total employment	723.9	716.5	716.0	713.9	724.8	725.2	793.6	726.1	725.5	726.5	741.0	739.8	736.6
Average weekly hours	38.7	38.7	39.0	38.0	39.1	39.2	40.8	39.7	38.8	38.7	38.7	39.1	38.4
Average overtime hours . . . . .	.9	1.2	1.6	1.3	1.4	1.6	3.3	1.5	1.3	1.2	.9	.8	.9
Indexes (1965=100):													
Average weekly earnings	124.6	125.3	126.8	116.3	119.4	120.6	127.2	121.5	118.4	117.8	116.6	117.8	111.1
Average hourly earnings	133.0	133.7	134.3	126.4	126.1	127.1	128.7	126.4	126.1	125.7	124.4	124.4	119.5
OTHER AGENCIES													
Total employment	904.1	964.0	1,032.6	950.5	864.4	853.2	847.4	852.1	851.3	859.2	883.3	897.2	896.9
Average weekly hours	32.7	36.0	37.9	38.7	39.2	39.2	39.1	39.3	39.3	39.4	40.0	39.6	39.2
Average overtime hours . . . . .	.8	.8	.8	.8	.8	.9	.8	.9	.8	.8	.8	.8	.9
Indexes (1965=100):													
Average weekly earnings	121.4	132.6	136.3	134.1	135.3	135.8	136.0	135.6	135.1	133.8	131.4	122.0	122.9
Average hourly earnings	146.6	145.5	142.0	136.9	136.3	136.9	137.4	136.3	135.8	134.1	129.8	121.7	123.8

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.

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

Major industry group	Average hourly earnings excluding overtime ¹				
	Aug. 1970 ^p	July 1970 ^p	June 1970	Aug. 1969	July 1969
MANUFACTURING	\$3.24	\$3.25	\$3.23	\$3.06	\$3.06
DURABLE GOODS	3.45	3.45	3.44	3.24	3.24
Ordnance and accessories	-	3.51	3.50	3.33	3.32
Lumber and wood products	-	2.87	2.85	2.67	2.63
Furniture and fixtures	-	2.71	2.68	2.54	2.52
Stone, clay, and glass products	-	3.24	3.23	3.03	3.01
Primary metal industries	-	3.80	3.78	3.66	3.62
Fabricated metal products	-	3.39	3.39	3.17	3.17
Machinery, except electrical	-	3.65	3.62	3.40	3.39
Electrical equipment and supplies	-	3.23	3.21	2.99	2.99
Transportation equipment	-	3.92	3.92	3.75	3.72
Instruments and related products	-	3.24	3.22	3.05	3.03
Miscellaneous manufacturing industries	-	2.75	2.74	2.56	2.57
NONDURABLE GOODS	2.97	2.97	2.95	2.80	2.80
Food and kindred products	-	3.01	3.00	2.78	2.82
Tobacco manufactures	-	2.98	2.98	2.44	2.71
Textile mill products	-	2.34	2.34	2.27	2.25
Apparel and other textile products	-	2.35	2.34	2.27	2.25
Paper and allied products	-	3.29	3.25	3.09	3.07
Printing and publishing	(2)	(2)	(2)	(2)	(2)
Chemicals and allied products	-	3.57	3.54	3.36	3.36
Petroleum and coal products	-	4.09	4.05	3.82	3.84
Rubber and plastics products, n e c	-	3.06	3.02	2.93	2.94
Leather and leather products	-	2.43	2.43	2.30	2.28

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

²Not 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 workers¹
on private nonagricultural payrolls, in current and 1957-59 dollars**

Industry	Gross average weekly earnings			Spendable average weekly earnings					
	July 1970 ^p	June 1970	July 1969	Worker with no dependents			Worker with three dependents		
				July 1970 ^p	June 1970	July 1969	July 1970 ^p	June 1970	July 1969
TOTAL PRIVATE:									
Current dollars	\$121.45	\$120.05	\$115.90	\$97.43	\$96.38	\$91.90	\$106.18	\$105.08	\$100.98
1957-59 dollars	89.50	88.79	90.41	71.80	71.29	71.68	78.25	77.72	78.77
MINING:									
Current dollars	163.83	163.88	154.37	129.23	129.27	119.96	140.03	140.07	130.74
1957-59 dollars	120.73	121.21	120.41	95.23	95.61	93.57	103.19	103.60	101.98
CONTRACT CONSTRUCTION:									
Current dollars	199.82	196.99	184.21	156.26	154.24	142.41	169.57	167.29	154.97
1957-59 dollars	147.25	145.70	143.69	115.15	114.08	111.08	124.96	123.74	120.88
MANUFACTURING:									
Current dollars	134.46	134.40	128.88	107.17	107.13	101.43	116.48	116.43	110.95
1957-59 dollars	99.09	99.41	100.53	78.98	79.24	79.12	85.84	86.12	86.54
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	159.06	156.29	150.02	125.56	123.43	116.69	136.10	133.81	127.21
1957-59 dollars	117.21	115.60	117.02	92.53	91.29	91.02	100.29	98.97	99.23
WHOLESALE AND RETAIL TRADE:									
Current dollars	98.37	96.12	93.08	80.12	78.38	74.99	88.02	86.23	83.50
1957-59 dollars	72.49	71.09	72.61	59.04	57.97	58.49	64.86	63.78	65.13
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	112.61	111.57	107.96	90.80	90.03	86.07	99.19	98.37	94.94
1957-59 dollars	82.98	82.52	84.21	66.91	66.59	67.14	73.10	72.76	74.06
SERVICES:									
Current dollars	98.77	96.95	92.84	80.43	79.02	74.81	88.34	86.89	83.31
1957-59 dollars	72.79	71.71	72.42	59.27	58.45	58.35	65.10	64.27	64.98
CONSUMER PRICE INDEX (All items, 1957-59 = 100)	135.7	135.2	128.2	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.					

¹For 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 activities¹

Industry	1957-59=100				
	Aug. 1970 ^p	July 1970 ^p	June 1970	Aug. 1969	July 1969
TOTAL	114.0	112.2	114.0	122.2	119.4
MINING	83.7	82.6	82.6	84.6	82.9
CONTRACT CONSTRUCTION	126.2	126.1	122.9	135.4	133.0
MANUFACTURING	113.3	111.2	114.0	121.7	118.7
DURABLE GOODS	114.8	113.8	118.0	126.1	124.4
Ordnance and accessories	148.9	147.3	156.2	202.8	207.7
Lumber and wood products	91.6	89.6	92.3	98.2	96.6
Furniture and fixtures	120.5	113.5	117.2	133.4	125.9
Stone, clay, and glass products	109.3	108.6	110.0	117.6	115.1
Primary metal industries	108.2	107.6	109.0	116.1	115.7
Fabricated metal products	121.7	120.1	124.5	131.2	127.7
Machinery, except electrical	123.4	125.3	129.6	134.9	125.4
Electrical equipment and supplies	136.3	135.5	137.7	148.0	143.8
Transportation equipment	101.4	101.1	110.5	117.2	118.0
Instruments and related products	120.1	120.9	124.0	132.5	130.1
Miscellaneous manufacturing industries	107.1	99.6	104.2	113.1	106.1
NONDURABLE GOODS	111.4	107.8	108.8	115.9	111.3
Food and kindred products	109.7	99.5	96.4	109.8	100.2
Tobacco manufactures	83.0	66.4	67.4	90.8	67.7
Textile mill products	99.4	98.4	101.4	106.7	104.9
Apparel and other textile products	114.1	109.6	114.1	119.2	112.8
Paper and allied products	116.8	116.4	118.4	123.1	121.4
Printing and publishing	117.5	117.6	118.0	121.1	119.7
Chemicals and allied products	120.6	121.5	121.4	126.4	126.0
Petroleum and coal products	87.6	87.3	85.8	86.6	88.1
Rubber and plastics products, nec.	157.7	153.5	154.9	167.5	163.1
Leather and leather products	84.9	86.5	89.8	91.4	89.4
	Payrolls				
MINING	129.5	126.0	126.4	122.0	119.4
CONTRACT CONSTRUCTION	235.9	232.0	223.2	230.4	224.1
MANUFACTURING	180.4	177.1	181.1	184.0	179.3

¹For 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 workers¹
on private nonagricultural payrolls, seasonally adjusted**

Industry	Aug. 1970 ^p	July 1970 ^p	June 1970	May 1970	Apr. 1970	Mar. 1970	Feb. 1970	Jan. 1970	Dec. 1969	Nov. 1969	Oct. 1969	Sept. 1969	Aug. 1969
TOTAL PRIVATE	37.3	37.3	37.2	37.1	37.2	37.4	37.3	37.5	37.6	37.6	37.5	37.7	37.7
MINING	42.7	42.6	42.4	42.6	43.1	43.2	43.4	42.7	43.2	43.5	43.0	43.1	43.1
CONTRACT CONSTRUCTION	37.4	37.4	37.6	38.1	38.3	38.0	38.2	36.7	38.2	38.1	37.6	38.1	37.9
MANUFACTURING	39.9	40.1	39.8	39.8	40.0	40.2	39.9	40.3	40.7	40.5	40.5	40.7	40.6
<i>Overtime hours</i>	3.0	3.0	3.1	2.9	3.0	3.2	3.2	3.3	3.5	3.5	3.5	3.6	3.6
DURABLE GOODS	40.6	40.7	40.4	40.3	40.4	40.7	40.5	41.0	41.3	41.1	41.2	41.4	41.2
<i>Overtime hours</i>	3.0	3.1	3.2	3.0	3.0	3.2	3.2	3.4	3.6	3.5	3.6	3.8	3.8
Ordnance and accessories	41.1	40.3	40.6	40.8	41.1	41.1	41.3	40.6	40.5	40.3	40.2	40.3	40.4
Lumber and wood products	40.0	39.8	39.6	39.7	39.8	39.5	40.1	39.6	40.3	40.2	39.9	40.0	39.9
Furniture and fixtures	39.1	39.2	38.9	38.8	39.3	39.4	39.3	39.5	40.0	40.0	39.9	40.1	40.3
Stone, clay, and glass products	41.2	41.2	41.1	41.3	41.6	41.8	41.7	41.7	42.1	41.8	41.7	41.9	41.9
Primary metal industries	40.8	40.8	40.4	40.2	40.1	40.7	40.9	41.2	41.7	41.6	42.1	42.1	41.9
Fabricated metal products	40.6	41.3	40.9	40.6	40.9	41.2	41.1	41.4	41.5	41.4	41.4	41.5	41.6
Machinery, except electrical	40.9	41.1	41.1	41.1	41.4	41.8	41.9	42.2	42.6	42.2	42.4	42.6	42.5
Electrical equipment and supplies	39.8	40.4	39.5	39.7	40.0	40.2	39.7	40.5	40.3	40.1	40.2	40.4	40.4
Transportation equipment	42.1	41.2	41.6	40.3	39.7	40.4	40.3	40.2	41.4	40.7	41.2	41.6	41.2
Instruments and related products	40.3	40.2	40.2	40.1	40.5	40.7	40.2	40.7	40.9	40.9	40.7	41.0	40.9
Miscellaneous manufacturing industries	39.0	39.2	38.6	38.7	39.0	39.0	38.6	39.3	39.3	38.9	38.9	39.0	39.1
NONDURABLE GOODS	39.0	39.2	39.0	39.1	39.4	39.4	39.3	39.6	39.8	39.6	39.6	39.7	39.7
<i>Overtime hours</i>	2.8	2.9	3.0	3.0	3.0	3.2	3.2	3.4	3.3	3.3	3.3	3.3	3.4
Food and kindred products	40.3	40.2	40.3	40.7	40.6	40.5	40.7	41.0	40.8	40.8	40.6	40.9	40.9
Tobacco manufactures	37.5	37.8	37.4	37.1	38.3	37.5	37.3	38.3	36.2	37.2	37.3	37.4	37.2
Textile mill products	39.8	40.3	40.0	39.8	40.6	40.2	40.1	40.4	40.9	40.7	40.6	40.7	40.9
Apparel and other textile products	35.0	35.5	35.2	35.1	35.5	35.6	35.5	35.6	36.0	35.8	35.8	35.8	35.9
Paper and allied products	41.4	41.7	41.6	41.8	42.1	42.2	42.3	42.8	42.8	42.7	42.8	42.9	42.9
Printing and publishing	37.6	37.9	37.7	37.7	37.9	38.0	38.0	38.2	38.6	38.4	38.2	38.3	38.4
Chemicals and allied products	41.5	41.5	41.5	41.5	41.4	41.8	41.8	42.0	41.8	41.8	41.7	41.8	41.8
Petroleum and coal products	43.5	42.7	42.6	42.5	41.9	42.2	42.7	42.5	42.3	42.6	42.6	42.2	42.8
Rubber and plastics products, nec	40.4	40.7	40.4	40.0	40.7	40.7	41.0	40.9	41.1	40.8	40.9	41.0	40.9
Leather and leather products	36.9	37.5	37.6	37.7	37.4	37.4	37.1	37.5	37.7	37.3	37.2	37.1	36.9
TRANSPORTATION AND PUBLIC UTILITIES	40.6	40.7	40.6	40.6	40.2	40.6	40.7	40.7	40.8	40.7	40.9	40.8	40.5
WHOLESALE AND RETAIL TRADE	35.5	35.5	35.4	35.4	35.3	35.3	35.4	35.4	35.5	35.5	35.5	35.6	35.7
WHOLESALE TRADE	40.2	40.1	39.9	40.1	40.1	40.1	40.2	40.3	40.5	40.3	40.3	40.3	40.3
RETAIL TRADE	34.0	33.9	33.8	33.9	33.7	33.8	33.7	33.8	33.8	34.0	34.0	34.1	34.2
FINANCE, INSURANCE, AND REAL ESTATE	37.0	36.8	36.7	36.8	36.9	37.0	37.0	36.9	36.9	37.2	37.0	37.1	37.0
SERVICES	34.3	34.6	34.4	34.5	34.4	34.7	34.4	34.4	34.6	34.7	34.6	34.7	35.0

¹For 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 activities¹
seasonally adjusted**

Industry	1957-59=100												
	Aug. 1970 ^P	July 1970 ^P	June 1970	May 1970	Apr. 1970	Mar. 1970	Feb. 1970	Jan. 1970	Dec. 1969	Nov. 1969	Oct. 1969	Sept. 1969	Aug. 1969
TOTAL	110.5	111.4	111.3	111.7	114.1	115.5	115.6	115.4	117.8	117.1	117.9	118.7	118.4
MINING	80.2	79.3	79.3	79.5	81.1	81.6	82.2	80.9	81.8	82.0	81.1	81.5	81.1
CONTRACT CONSTRUCTION	110.9	112.7	113.4	116.0	119.7	120.6	121.1	113.4	122.5	121.4	118.8	120.1	118.9
MANUFACTURING	112.0	112.8	112.6	112.6	114.7	116.3	116.1	117.5	118.7	118.1	119.6	120.3	120.2
DURABLE GOODS	115.6	116.1	116.2	116.3	118.5	120.8	120.0	121.8	124.1	123.3	126.4	127.1	126.6
Ordnance and accessories	150.3	150.8	156.5	161.9	165.4	174.6	180.1	178.2	186.9	190.5	192.3	197.3	205.7
Lumber and wood products	87.4	86.8	87.5	88.7	89.5	90.1	92.1	92.4	94.2	93.6	92.6	93.7	93.8
Furniture and fixtures	117.6	117.3	116.4	117.0	122.0	123.6	123.3	125.5	127.4	127.7	128.7	129.4	130.3
Stone, clay, and glass products	104.5	105.4	106.2	106.9	108.9	110.5	111.3	110.9	113.5	112.5	112.2	112.7	112.3
Primary metal industries	108.2	106.8	105.8	105.6	106.6	109.6	111.1	113.4	116.5	116.8	118.6	118.0	116.0
Fabricated metal products	121.6	123.7	122.5	121.9	125.0	126.9	126.9	129.0	130.5	129.7	129.8	131.2	131.4
Machinery, except electrical	126.1	127.6	128.1	129.9	133.4	136.2	136.5	137.7	139.8	137.8	139.1	139.3	137.8
Electrical equipment and supplies	136.7	140.1	137.8	138.2	141.3	143.0	140.8	135.7	136.0	136.3	148.5	148.5	148.1
Transportation equipment	108.3	107.0	109.6	106.8	107.4	110.4	104.7	112.0	116.9	116.1	121.7	123.6	122.8
Instruments and related products	120.6	122.9	123.4	125.7	128.3	128.9	127.3	128.9	130.9	130.9	130.7	132.1	132.7
Miscellaneous manufacturing industries	103.5	103.7	103.1	104.0	105.7	108.0	108.1	110.1	112.7	107.1	108.7	108.6	109.2
NONDURABLE GOODS	107.3	108.4	107.9	107.7	109.8	110.4	110.8	111.9	111.8	111.4	110.7	111.4	111.8
Food and kindred products	97.8	96.0	96.9	98.0	97.8	99.0	100.0	99.5	98.0	98.1	95.4	97.8	97.9
Tobacco manufactures	75.5	77.2	76.4	76.9	78.2	76.6	76.2	78.2	70.6	76.0	77.3	78.7	81.6
Textile mill products	98.4	100.3	99.5	100.2	103.1	102.2	102.7	104.8	105.6	104.9	104.6	105.1	105.6
Apparel and other textile products	111.3	114.0	112.1	111.0	113.7	114.2	114.1	116.0	116.9	115.8	115.9	116.0	116.6
Paper and allied products	114.5	116.0	116.6	117.5	119.5	120.2	120.2	121.9	121.7	120.7	121.0	121.3	120.9
Printing and publishing	117.0	118.3	117.6	118.0	119.7	120.5	120.5	121.3	122.6	121.8	121.0	120.6	120.5
Chemicals and allied products	119.7	121.1	120.5	121.1	121.6	123.4	124.0	125.2	124.8	124.6	124.3	125.0	125.4
Petroleum and coal products	84.8	82.5	83.0	82.8	81.7	82.9	83.9	83.5	82.4	83.0	83.0	82.2	83.4
Rubber and plastics products, nec	156.7	158.6	154.2	144.9	161.1	162.1	163.7	165.1	165.2	164.7	165.5	166.6	166.5
Leather and leather products	83.0	87.5	88.0	87.6	87.2	86.9	86.5	88.7	89.5	88.2	88.3	87.1	89.4

¹ 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 ¹			Percent change ²		
	August 1970 ^P	July 1970 ^P	June 1970	July 1970 to August 1970	June 1970 to July 1970	August 1969 to August 1970
TOTAL - ALL INDUSTRIES	138,456	138,952	138,394	- 4.2	4.9	- 0.9
TOTAL - PRIVATE	112,526	113,070	112,716	- 5.6	3.8	- 1.8
MINING	1,379	1,369	1,367	9.1	1.8	- 0.8
CONTRACT CONSTRUCTION	6,369	6,445	6,499	-13.3	- 9.5	- 5.5
MANUFACTURING	39,985	40,282	40,199	- 8.5	2.5	- 5.7
TRANSPORTATION AND PUBLIC UTILITIES	9,551	9,606	9,524	- 6.7	10.8	1.9
WHOLESALE AND RETAIL TRADE	27,563	27,577	27,478	- 0.6	4.4	1.1
FINANCE, INSURANCE, AND REAL ESTATE	7,055	7,034	7,021	3.6	2.2	2.4
SERVICES	20,624	20,757	20,628	- 7.4	7.8	0.7
GOVERNMENT	25,930	25,882	25,678	2.2	10.0	2.9

¹ "Annual rate" refers to total man-hours for 1 week in the month, seasonally adjusted, and expressed as an annual equivalent.
² 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 ¹		Real compensation per man-hour ²		Unit labor costs		Unit nonlabor payments ³		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 ^P	159.3	161.9	113.8	120.4	139.9	134.4	184.9	177.5	137.5	132.0	132.2	132.1	125.2	124.7	129.5	129.4
3d quarter																
4th quarter																
Annual average																
Percent change over previous quarter at annual rate ⁴																
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	.11	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 ^P	0.1	- 0.1	- 2.9	- 3.3	3.1	3.3	5.1	5.6	- 1.3	- 0.9	1.9	2.2	8.2	9.3	4.1	4.6
3d quarter																
4th quarter																
Percent change over previous year ⁵																
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 ^P	- 0.3	- 0.3	- 1.1	- 0.6	0.8	0.3	7.2	6.8	1.1	0.7	6.4	6.5	1.6	1.4	4.6	4.6
3d quarter																
4th quarter																

¹ 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.

² Compensation per man-hour adjusted for changes in the consumer price index.

³ Nonlabor payments include profits, depreciation, interest, rental income, and indirect taxes.

⁴ Percent change computed from original data.

⁵ Current quarter divided by comparable quarter a year ago.

p = 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.

ESTABLISHMENT DATA

STATE AND AREA HOURS AND EARNINGS

**C-11: 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		
	July p 1970	June 1970	July 1969	July p 1970	June 1970	July 1969	July p 1970	June 1970	July 1969
ALABAMA	\$115.14	\$113.20	\$112.88	40.4	40.0	41.5	\$2.85	\$2.83	\$2.72
Birmingham	135.07	133.93	135.01	40.2	40.1	41.8	3.36	3.34	3.23
Mobile	135.46	136.29	139.75	40.8	41.3	43.4	3.32	3.30	3.22
ALASKA	(*)	189.98	187.46	(*)	42.5	46.4	(*)	4.47	4.04
ARIZONA	130.15	128.70	125.76	39.8	39.6	40.7	3.27	3.25	3.09
Phoenix	131.93	129.75	128.11	39.5	39.2	40.8	3.34	3.31	3.14
Tucson	134.48	136.78	127.00	41.0	41.7	41.1	3.28	3.27	3.09
ARKANSAS	99.35	98.65	93.60	39.9	40.1	40.0	2.49	2.46	2.34
Fort Smith	96.56	95.20	87.55	39.9	39.5	38.4	2.42	2.41	2.28
Little Rock-North Little Rock	103.49	103.75	100.61	39.2	39.6	40.9	2.64	2.62	2.46
Pine Bluff	134.31	128.96	117.27	41.2	41.2	40.3	3.26	3.13	2.91
CALIFORNIA	150.11	150.08	146.33	39.4	39.6	40.2	3.81	3.79	3.64
Anaheim-Santa Ana-Garden Grove	150.72	151.81	146.11	40.3	40.7	40.7	3.74	3.73	3.59
Bakersfield	151.64	151.22	146.65	39.8	39.9	40.4	3.81	3.79	3.63
Fresno	131.93	127.05	127.44	39.5	38.5	39.7	3.34	3.30	3.21
Los Angeles-Long Beach	145.33	144.51	141.86	39.6	39.7	40.3	3.67	3.64	3.52
Modesto-Turlock	119.30	122.33	121.97	35.4	36.3	37.3	3.37	3.37	3.27
Oxnard-Ventura	130.07	133.57	129.36	37.7	39.4	39.2	3.45	3.39	3.30
Sacramento	166.36	162.27	155.99	39.8	39.1	38.9	4.18	4.15	4.01
Salinas-Monterey	127.72	124.85	126.71	37.9	36.4	37.6	3.37	3.43	3.37
San Bernardino-Riverside-Ontario	150.38	147.26	139.70	40.1	39.8	39.8	3.75	3.70	3.51
San Diego	166.00	165.59	160.74	40.0	39.9	40.9	4.15	4.15	3.93
San Francisco-Oakland	164.40	166.60	161.58	38.5	39.2	39.7	4.27	4.25	4.07
San Jose	157.21	157.21	155.66	39.6	39.5	41.4	3.97	3.98	3.76
Santa Barbara	138.48	137.63	139.04	38.9	39.1	40.3	3.56	3.52	3.45
Santa Rosa	140.93	141.21	130.37	38.4	38.9	38.8	3.67	3.63	3.36
Stockton	150.54	152.47	147.17	39.0	39.5	40.1	3.86	3.86	3.67
Vallejo-Napa	143.26	141.38	142.08	38.0	37.6	38.4	3.77	3.76	3.70
COLORADO	(*)	141.35	138.24	(*)	40.5	40.9	(*)	3.49	3.38
Denver	(*)	144.94	142.49	(*)	40.6	41.3	(*)	3.57	3.45
CONNECTICUT	139.26	140.29	137.01	40.6	40.9	41.9	3.43	3.43	3.27
Bridgeport	141.86	140.30	142.28	40.3	40.2	42.6	3.52	3.49	3.34
Hartford	149.45	148.57	149.21	41.4	41.5	43.0	3.61	3.58	3.47
New Britain	139.44	141.00	136.95	40.3	40.4	41.5	3.46	3.49	3.30
New Haven	142.04	142.80	139.11	40.7	40.8	41.9	3.49	3.50	3.32
Stamford	154.56	155.72	144.75	42.0	42.2	42.2	3.68	3.69	3.43
Waterbury	131.61	133.31	126.46	41.0	41.4	41.6	3.21	3.22	3.04
DELAWARE	132.60	139.60	128.79	39.0	40.7	40.5	3.40	3.43	3.18
Wilmington	149.35	158.62	147.33	39.2	41.2	40.7	3.81	3.85	3.62
DISTRICT OF COLUMBIA : Washington SMSA	(*)	148.22	138.73	(*)	38.8	39.3	(*)	3.82	3.53
FLORIDA	117.45	118.40	114.12	40.5	41.4	41.2	2.90	2.86	2.77
Fort Lauderdale-Hollywood	131.38	130.41	111.79	40.8	41.4	41.1	3.22	3.15	2.72
Jacksonville	122.96	125.04	120.67	41.4	42.1	41.9	2.97	2.97	2.88
Miami	111.67	117.22	106.39	39.6	40.7	40.3	2.82	2.88	2.64
Orlando	119.99	126.26	114.86	39.6	42.8	40.3	3.03	2.95	2.85
Pensacola	138.17	132.40	139.16	40.4	40.0	43.9	3.42	3.31	3.17
Tampa-St. Petersburg	123.83	124.23	116.48	40.6	41.0	41.9	3.05	3.03	2.78
West Palm Beach	140.75	142.27	112.56	46.3	46.8	37.9	3.04	3.04	2.97
GEORGIA	108.27	109.21	104.55	40.4	40.6	41.0	2.68	2.69	2.55
Atlanta	134.86	138.31	128.61	39.9	40.8	40.7	3.38	3.39	3.16
Savannah	141.19	136.69	133.34	42.4	41.8	42.6	3.33	3.27	3.13
HAWAII	122.39	117.90	111.93	43.4	39.3	40.7	2.82	3.00	2.75
Honolulu	121.95	116.42	112.75	43.4	39.2	41.3	2.81	2.97	2.73
IDAHO	143.15	135.38	128.10	40.9	40.9	37.9	3.50	3.31	3.38
ILLINOIS	146.79	146.34	140.57	40.1	40.3	40.8	3.66	3.63	3.45
Chicago	(*)	147.29	143.01	(*)	40.2	40.8	(*)	3.67	3.50
Davenport-Rock Island-Moline	(*)	164.79	152.76	(*)	40.7	40.0	(*)	4.05	3.82

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

**C-11: 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		
	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969
ILLINOIS (continued)									
Peoria	(*)	\$164.48	\$162.78	(*)	40.7	42.5	(*)	\$4.04	\$3.83
Rockford	(*)	147.88	139.12	(*)	41.0	41.7	(*)	3.60	3.34
INDIANA	\$149.51	149.60	144.08	40.3	40.0	40.7	\$3.71	3.74	3.54
Indianapolis	(*)	151.88	142.66	(*)	40.5	40.3	(*)	3.75	3.54
IOWA	143.50	143.81	135.49	39.1	39.4	39.5	3.67	3.65	3.43
Cedar Rapids	147.75	145.02	138.84	39.4	39.3	41.2	3.75	3.69	3.37
Des Moines	152.36	148.60	154.71	40.2	38.9	41.7	3.79	3.82	3.71
Dubuque	148.06	152.11	152.49	36.2	37.1	39.0	4.09	4.10	3.91
Sioux City	134.31	142.14	128.93	40.7	41.2	40.8	3.30	3.45	3.16
Waterloo	159.59	150.15	148.93	39.7	38.6	39.4	4.02	3.89	3.78
KANSAS	135.84	130.76	125.74	41.2	40.4	41.0	3.30	3.23	3.07
Topeka	150.22	99.44	145.03	42.8	30.4	43.4	3.51	3.27	3.34
Wichita	147.09	144.68	135.34	42.3	42.8	42.5	3.48	3.38	3.19
KENTUCKY	131.34	130.15	123.20	39.8	39.8	40.0	3.30	3.27	3.08
Louisville	149.11	146.03	135.56	40.3	39.9	39.2	3.70	3.66	3.46
LOUISIANA	137.03	134.37	130.93	41.4	41.6	42.1	3.31	3.23	3.11
Baton Rouge	158.38	158.42	162.43	41.9	41.8	43.2	3.78	3.79	3.76
New Orleans	135.07	134.87	132.99	40.2	40.5	41.3	3.36	3.33	3.22
Shreveport	127.41	125.15	119.00	41.5	40.9	41.9	3.07	3.06	2.84
MAINE	110.02	108.00	102.91	40.3	40.3	40.2	2.73	2.68	2.56
Lewiston-Auburn	89.30	89.30	83.95	36.9	36.9	36.5	2.42	2.42	2.30
Portland	112.79	116.57	104.10	39.3	40.9	38.7	2.87	2.85	2.69
MARYLAND	136.21	135.20	130.97	40.3	40.0	40.8	3.38	3.38	3.21
Baltimore	140.75	140.35	135.46	40.1	40.1	40.8	3.51	3.50	3.32
MASSACHUSETTS	126.29	126.80	120.29	39.1	39.5	39.7	3.23	3.21	3.03
Boston	137.28	138.20	127.40	39.0	39.6	39.2	3.52	3.49	3.25
Brockton	109.66	110.93	103.95	37.3	37.6	37.8	2.94	2.95	2.75
Fall River	94.50	93.80	92.36	35.0	35.0	35.8	2.70	2.68	2.58
Lawrence-Haverhill	117.11	121.60	112.63	39.3	40.4	39.8	2.98	3.01	2.83
Lowell	113.19	115.82	103.14	38.5	39.8	38.2	2.94	2.91	2.70
New Bedford	101.68	98.52	101.82	37.8	36.9	38.7	2.69	2.67	2.63
Springfield-Chicopee-Holyoke	126.75	127.83	123.72	39.0	39.7	40.3	3.25	3.22	3.07
Worcester	126.82	130.14	129.74	38.2	39.2	40.8	3.32	3.32	3.18
MICHIGAN	174.31	178.79	169.22	41.7	42.6	42.0	4.18	4.20	4.03
Ann Arbor	190.13	186.78	163.51	44.6	44.0	41.3	4.26	4.25	3.96
Battle Creek	178.76	165.77	165.64	42.2	40.5	42.8	4.24	4.09	3.87
Bay City	149.01	154.92	152.95	39.4	39.6	41.8	3.78	3.91	3.66
Detroit	186.18	191.49	181.77	42.4	43.8	42.8	4.39	4.37	4.25
Flint	201.82	208.59	202.08	43.6	44.4	43.3	4.63	4.70	4.67
Grand Rapids	149.90	149.88	141.87	40.6	40.4	40.1	3.69	3.71	3.54
Jackson	156.50	156.35	159.33	38.5	38.5	40.5	4.07	4.06	3.93
Kalamazoo	171.49	175.62	155.01	42.5	43.3	42.4	4.04	4.06	3.66
Lansing	179.62	181.99	168.12	40.5	41.4	39.8	4.44	4.40	4.22
Muskegon-Muskegon Heights	151.55	151.14	141.31	40.5	39.9	40.7	3.74	3.79	3.47
Saginaw	183.23	202.19	166.80	40.7	43.5	39.1	4.50	4.65	4.27
MINNESOTA	140.49	140.09	135.45	39.9	39.8	40.7	3.52	3.52	3.33
Duluth-Superior	(*)	(*)	129.71	(*)	(*)	40.0	(*)	(*)	3.24
Minneapolis-St. Paul	146.93	145.43	143.59	39.7	39.7	41.0	3.70	3.66	3.50
MISSISSIPPI	97.61	97.77	94.19	40.5	40.4	40.6	2.41	2.42	2.32
Jackson	102.51	102.66	92.80	41.5	41.9	40.7	2.47	2.45	2.28
MISSOURI	138.29	138.85	130.57	40.2	40.6	40.3	3.44	3.42	3.24
Kansas City	131.13	131.45	128.56	40.1	40.2	40.3	3.27	3.27	3.19
St. Joseph	144.56	141.17	136.59	41.9	41.4	43.5	3.45	3.41	3.14
St. Louis	156.67	158.18	146.93	40.8	41.3	40.7	3.84	3.83	3.61
Springfield	111.64	110.65	105.28	38.9	39.1	39.0	2.87	2.83	2.70
MONTANA	149.36	148.54	138.05	39.1	39.4	39.9	3.82	3.77	3.46
NEBRASKA	133.12	135.11	126.51	41.7	42.3	42.8	3.19	3.19	2.95
Lincoln	122.32	117.94	-	39.8	38.9	-	3.08	3.03	-
Omaha	135.36	138.42	129.49	40.9	41.4	42.1	3.31	3.34	3.07

See footnotes at end of table.

ESTABLISHMENT DATA

STATE AND AREA HOURS AND EARNINGS

**C-11: 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		
	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969	July 1970 ^P	June 1970	July 1969
NEVADA.....	\$163.49	\$160.33	\$159.57	39.3	39.2	40.5	\$4.16	\$4.09	\$3.94
Las Vegas ¹	(*)	175.39	178.93	(*)	40.6	42.3	(*)	4.32	4.23
NEW HAMPSHIRE.....	108.19	108.25	102.70	38.5	38.8	39.5	2.81	2.79	2.60
Manchester.....	98.63	99.04	92.86	37.5	37.8	37.9	2.63	2.62	2.45
NEW JERSEY.....	139.32	139.19	131.54	40.5	40.7	40.6	3.44	3.42	3.24
Atlantic City.....	119.95	115.08	101.79	44.1	41.1	39.0	2.72	2.80	2.61
Camden ²	138.65	136.91	134.79	39.5	39.8	40.6	3.51	3.44	3.32
Jersey City ³	141.05	141.98	134.39	40.3	40.8	40.6	3.50	3.48	3.31
Newark ³	135.37	137.36	128.55	38.9	39.7	39.8	3.48	3.46	3.23
Paterson-Clifton-Passaic ³	137.20	136.86	135.71	40.0	39.9	41.5	3.43	3.43	3.27
Perth Amboy ³	144.84	143.67	135.07	40.8	40.7	40.2	3.55	3.53	3.36
Trenton.....	132.72	133.78	122.62	39.5	39.7	39.3	3.36	3.37	3.12
NEW MEXICO.....	102.58	103.85	105.30	37.3	37.9	39.0	2.75	2.74	2.70
Albuquerque.....	111.90	112.96	115.26	39.4	40.2	40.3	2.84	2.81	2.86
NEW YORK.....	134.68	134.55	128.05	38.7	39.0	39.4	3.48	3.45	3.25
Albany-Schenectady-Troy.....	147.90	149.33	139.06	40.3	40.8	40.9	3.67	3.66	3.40
Binghamton.....	132.47	134.31	130.00	39.9	40.7	41.4	3.32	3.30	3.14
Buffalo.....	161.52	163.14	151.29	41.1	41.3	41.0	3.93	3.95	3.69
Elmira.....	127.33	123.91	123.32	39.3	38.6	40.3	3.24	3.21	3.06
Monroe County ⁴	161.59	161.54	151.20	40.6	41.0	41.2	3.98	3.94	3.67
Nassau and Suffolk Counties ⁵	135.63	136.57	126.72	39.2	39.7	40.1	3.46	3.44	3.16
New York-Northeastern New Jersey.....	(*)	131.97	125.97	(*)	38.7	39.0	(*)	3.41	3.23
New York SMSA ³	127.91	127.43	121.54	37.4	37.7	38.1	3.42	3.38	3.19
New York City ⁵	125.83	124.99	119.63	36.9	37.2	37.5	3.41	3.36	3.19
Rochester.....	157.53	157.47	147.50	40.6	40.9	41.2	3.88	3.85	3.58
Rockland County ⁵	133.17	132.60	128.54	39.4	39.7	41.2	3.38	3.34	3.12
Syracuse.....	143.56	141.50	136.49	40.1	40.2	40.5	3.58	3.52	3.37
Utica-Rome.....	127.08	125.37	121.09	39.1	39.3	39.7	3.25	3.19	3.05
Westchester County ⁵	135.02	134.35	134.53	38.8	39.4	40.4	3.48	3.41	3.33
NORTH CAROLINA.....	95.65	96.62	93.73	39.2	39.6	40.4	2.44	2.44	2.32
Asheville.....	89.73	91.54	92.52	37.7	38.3	40.4	2.38	2.39	2.29
Charlotte.....	103.57	105.67	97.85	40.3	40.8	40.6	2.57	2.59	2.41
Greensboro-Winston-Salem-High Point.....	105.54	107.29	99.43	38.8	39.3	39.3	2.72	2.73	2.53
Raleigh.....	98.43	97.61	95.68	38.6	39.2	40.2	2.55	2.49	2.38
NORTH DAKOTA.....	123.54	122.38	113.49	41.6	41.6	40.4	2.97	2.94	2.81
Fargo-Moorhead.....	138.00	132.01	129.46	40.7	40.1	41.4	3.39	3.30	3.13
OHIO.....	156.26	157.41	150.59	40.8	41.1	41.6	3.83	3.83	3.62
Akron.....	166.46	147.20	167.58	41.0	36.8	42.0	4.06	4.00	3.99
Canton.....	156.00	155.01	150.18	41.6	40.9	41.6	3.75	3.79	3.61
Cincinnati.....	147.10	151.11	138.20	40.3	41.4	41.5	3.65	3.65	3.33
Cleveland.....	158.30	159.47	156.51	40.8	41.1	42.3	3.88	3.88	3.70
Columbus.....	143.75	145.93	138.92	39.6	40.2	40.5	3.63	3.63	3.43
Dayton.....	173.04	177.66	174.20	41.2	42.1	42.8	4.20	4.22	4.07
Toledo.....	167.67	168.90	161.24	41.4	41.6	42.1	4.05	4.06	3.83
Youngstown-Warren.....	162.81	162.00	159.42	40.4	40.1	41.3	4.03	4.04	3.86
OKLAHOMA.....	125.76	125.15	119.18	40.7	40.9	40.4	3.09	3.06	2.95
Oklahoma City.....	122.31	126.07	114.37	40.5	41.2	40.7	3.02	3.06	2.81
Tulsa.....	139.33	139.70	131.78	41.1	41.7	40.8	3.39	3.35	3.23
OREGON.....	150.54	148.61	138.65	39.0	38.7	38.3	3.86	3.84	3.62
Eugene.....	156.03	158.40	143.02	39.5	39.6	39.4	3.95	4.00	3.63
Portland.....	147.45	142.50	142.40	38.6	37.5	38.8	3.82	3.80	3.67
PENNSYLVANIA.....	132.10	132.38	126.48	39.2	39.4	39.9	3.37	3.36	3.17
Allentown-Bethlehem-Easton.....	127.38	126.99	124.97	38.6	38.6	39.3	3.30	3.29	3.18
Altoona.....	106.59	109.52	105.96	37.4	38.7	39.1	2.85	2.83	2.71
Erie.....	138.04	137.83	134.60	40.6	40.3	41.8	3.40	3.42	3.22
Harrisburg.....	126.17	123.72	118.03	40.7	40.3	40.7	3.10	3.07	2.90
Johnstown.....	125.27	131.22	132.14	36.1	37.6	38.3	3.47	3.49	3.45
Lancaster.....	121.66	121.18	114.23	39.5	39.6	39.8	3.08	3.06	2.87
Philadelphia.....	141.73	140.89	135.81	39.7	39.8	40.3	3.57	3.54	3.37
Pittsburgh.....	154.25	153.06	144.32	40.7	40.6	40.2	3.79	3.77	3.59
Reading.....	120.74	122.58	108.29	39.2	39.8	38.4	3.08	3.08	2.82
Scranton.....	99.88	103.51	97.92	35.8	37.1	38.4	2.79	2.79	2.55
Wilkes-Barre-Hazleton.....	98.73	96.37	94.12	35.9	35.3	37.2	2.75	2.73	2.53
York.....	122.48	123.85	119.85	41.1	41.7	42.2	2.98	2.97	2.84

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

**C-II: 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		
	July 1970 P	June 1970	July 1969	July 1970 P	June 1970	July 1969	July 1970 P	June 1970	July 1969
RHODE ISLAND	\$111.83	\$111.72	\$108.00	39.1	39.2	40.3	\$2.86	\$2.85	\$2.68
Providence-Pawtucket-Warwick	112.50	112.39	108.27	39.2	39.3	40.1	2.87	2.86	2.70
SOUTH CAROLINA	99.00	100.44	99.29	39.6	40.5	41.2	2.50	2.48	2.41
Charleston	118.95	121.10	111.92	39.0	40.1	40.7	3.05	3.02	2.75
Greenville	98.40	98.49	100.62	40.0	40.2	42.1	2.46	2.45	2.39
SOUTH DAKOTA	130.54	131.12	119.24	44.1	44.6	44.0	2.96	2.94	2.71
Sioux Falls	155.76	153.97	139.54	47.2	46.8	45.9	3.30	3.29	3.04
TENNESSEE	109.20	108.68	104.78	40.0	40.4	40.3	2.73	2.69	2.60
Chattanooga	119.90	119.25	113.96	40.1	40.7	40.7	2.99	2.93	2.80
Knoxville	124.43	119.14	116.29	40.4	40.8	40.1	3.08	2.92	2.90
Memphis	123.07	122.01	115.71	39.7	40.4	40.6	3.10	3.02	2.85
Nashville	120.00	118.30	113.20	40.0	40.1	40.0	3.00	2.95	2.83
TEXAS	128.32	129.02	125.33	40.1	40.7	41.5	3.20	3.17	3.02
Amarillo	114.45	114.17	109.88	40.3	40.2	41.0	2.84	2.84	2.68
Austin	(*)	114.73	99.60	(*)	39.7	40.0	(*)	2.89	2.49
Beaumont-Port Arthur-Orange	170.15	169.33	170.40	41.0	41.1	42.6	4.15	4.12	4.00
Corpus Christi	(*)	155.30	144.58	(*)	42.2	42.4	(*)	3.68	3.41
Dallas	114.68	122.82	117.50	37.6	40.4	40.8	3.05	3.04	2.88
El Paso	91.74	90.61	86.28	41.7	41.0	40.7	2.20	2.21	2.12
Fort Worth	135.05	134.31	134.19	40.8	40.7	42.6	3.31	3.30	3.15
Galveston-Texas City	196.51	197.42	197.04	43.0	43.2	45.4	4.57	4.57	4.34
Houston	154.93	153.24	146.12	42.1	42.1	42.6	3.68	3.64	3.43
Lubbock	109.55	107.36	105.22	43.3	42.1	42.6	2.53	2.55	2.47
San Antonio	106.17	106.34	104.58	41.8	41.7	42.0	2.54	2.55	2.49
Waco	(*)	110.12	103.85	(*)	39.9	37.9	(*)	2.76	2.74
Wichita Falls	98.82	97.04	102.85	40.5	40.1	42.5	2.44	2.42	2.42
UTAH	137.20	134.71	131.20	39.2	38.6	40.0	3.50	3.49	3.28
Salt Lake City	127.21	125.24	124.66	38.2	38.3	39.7	3.33	3.27	3.14
VERMONT	120.01	116.80	114.40	41.1	40.0	41.3	2.92	2.92	2.77
Burlington	141.59	136.96	135.86	43.3	42.8	45.9	3.27	3.20	2.96
Springfield	125.60	106.24	133.46	40.0	33.2	42.1	3.14	3.20	3.17
VIRGINIA	108.38	110.70	106.63	39.7	40.4	40.7	2.73	2.74	2.62
Lynchburg	109.46	107.68	104.66	42.1	41.1	42.2	2.60	2.62	2.48
Norfolk-Portsmouth	120.51	126.26	112.17	41.7	42.8	41.7	2.89	2.95	2.69
Richmond	119.95	125.55	115.54	39.2	40.5	40.4	3.06	3.10	2.86
Roanoke	96.23	103.28	96.23	37.3	40.5	39.6	2.58	2.55	2.43
WASHINGTON	157.51	160.74	151.31	38.7	39.3	39.3	4.07	4.09	3.85
Seattle-Everett	165.11	166.32	157.61	39.5	39.6	39.9	4.18	4.20	3.95
Spokane	154.05	152.10	146.46	39.5	39.0	39.8	3.90	3.90	3.68
Tacoma	155.62	154.75	147.05	39.1	38.4	38.8	3.98	4.03	3.79
WEST VIRGINIA	133.96	135.32	127.12	39.4	39.8	39.6	3.40	3.40	3.21
Charleston	165.78	165.87	156.14	42.4	42.1	42.2	3.91	3.94	3.70
Huntington-Ashland	140.84	146.55	141.95	38.8	39.5	40.1	3.63	3.71	3.54
Wheeling	138.11	138.60	126.32	39.8	39.6	39.6	3.47	3.50	3.19
WISCONSIN	145.20	145.96	136.42	40.4	40.5	40.9	3.59	3.60	3.34
Green Bay	149.89	150.92	140.94	42.3	42.3	42.0	3.54	3.57	3.36
Kenosha	169.09	155.25	149.13	40.9	39.0	38.8	4.13	3.98	3.84
La Crosse	124.98	124.11	114.05	40.6	41.0	40.3	3.08	3.03	2.83
Madison	165.80	164.75	144.23	40.8	40.4	39.6	4.06	4.08	3.64
Milwaukee	157.17	157.16	146.91	40.2	40.2	40.5	3.91	3.91	3.63
Racine	153.68	150.39	143.42	40.7	40.3	40.9	3.78	3.73	3.51
WYOMING	138.34	131.06	130.94	39.3	38.1	39.8	3.52	3.44	3.29
Casper	168.02	154.40	161.66	41.9	40.0	42.1	4.01	3.86	3.84
Cheyenne	110.77	110.55	116.39	32.2	33.5	36.6	3.44	3.30	3.18

¹ Initial inclusion in this publication.
² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.
³ Area included in New York-Northeastern New Jersey Standard Consolidated Area.
⁴ Subarea of Rochester Standard Metropolitan Statistical Area.
⁵ Subarea of New York Standard Metropolitan Statistical Area.

* Not available.
 p = 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.....	3.6	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	4.2 ^P						
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 ^P						
Total separations													
1959.....	3.7	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	5.1 ^P						
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 ^P						
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	2.1 ^P						

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	
		July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970
-	MANUFACTURING	4.2	5.4	2.9	3.9	5.1	4.4	2.1	2.1	2.1	1.5
19,24,25,32-39	DURABLE GOODS	3.4	4.8	2.3	3.3	4.8	4.3	1.7	1.7	2.2	1.6
20-23,26-31	NONDURABLE GOODS	5.3	6.2	3.7	4.7	5.2	4.6	2.5	2.5	1.8	1.2
	<i>Durable Goods</i>										
19	ORDNANCE AND ACCESSORIES	-	3.0	-	1.6	-	3.6	-	1.2	-	1.7
192	Ammunition, except for small arms	-	2.5	-	1.3	-	3.6	-	1.2	-	1.7
24	LUMBER AND WOOD PRODUCTS	5.1	7.6	4.1	6.3	5.4	5.3	3.0	3.3	1.6	1.2
242	Sawmills and planing mills	-	7.2	-	5.9	-	5.1	-	3.3	-	1.0
2421	Sawmills and planing mills, general	-	7.3	-	6.1	-	4.9	-	3.2	-	.9
243	Millwork, plywood & related products	-	7.2	-	6.1	-	4.7	-	2.8	-	1.1
2431	Millwork	-	7.5	-	6.5	-	4.6	-	3.0	-	.8
2432	Veneer and plywood	-	5.5	-	4.5	-	4.3	-	2.4	-	1.3
244	Wooden containers	-	8.7	-	7.5	-	8.8	-	5.2	-	2.5
2441,2	Wooden boxes, shooks, and crates	-	8.3	-	6.8	-	7.5	-	4.8	-	1.9
249	Miscellaneous wood products	-	7.1	-	6.1	-	6.0	-	3.7	-	1.2
25	FURNITURE AND FIXTURES	5.5	5.4	4.3	4.3	5.7	5.2	3.2	2.7	1.5	1.4
251	Household furniture	-	5.1	-	4.1	-	5.4	-	2.9	-	1.3
2511	Wood household furniture	-	5.3	-	4.0	-	4.9	-	2.9	-	1.0
2512	Upholstered household furniture	-	3.3	-	2.6	-	3.6	-	2.3	-	.6
2515	Mattresses and bedsprings	-	7.0	-	6.0	-	5.3	-	3.3	-	.5
252	Office furniture	-	3.2	-	1.9	-	4.7	-	1.8	-	2.2
32	STONE, CLAY, AND GLASS PRODUCTS	4.7	6.3	3.3	4.8	4.6	4.5	2.3	2.4	1.3	1.2
321	Flat glass	-	7.1	-	.7	-	4.2	-	.3	-	3.2
322	Glass and glassware, pressed or blown	-	5.6	-	4.5	-	4.3	-	2.3	-	.9
3221	Glass containers	-	6.6	-	5.4	-	4.3	-	2.8	-	.5
3229	Pressed and blown glass, n e c	-	4.2	-	3.1	-	4.3	-	1.6	-	1.6
324	Cement, hydraulic	-	4.0	-	3.2	-	2.1	-	.5	-	.9
325	Structural clay products	-	7.8	-	6.4	-	6.0	-	3.4	-	1.8
3251	Brick and structural clay tile	-	9.5	-	8.1	-	6.7	-	4.5	-	1.4
326	Pottery and related products	-	6.1	-	4.0	-	4.1	-	2.5	-	.6
3291	Abrasive products	-	2.4	-	2.2	-	2.6	-	1.3	-	.5
33	PRIMARY METAL INDUSTRIES	2.6	4.8	1.7	3.3	3.9	3.4	1.4	1.3	1.2	1.1
331	Blast furnace and basic steel products	-	4.9	-	3.5	-	2.3	-	.9	-	.3
3312	Blast furnaces and steel mills	-	4.9	-	3.5	-	2.2	-	.8	-	.3
332	Iron and steel foundries	-	5.6	-	4.0	-	5.7	-	2.4	-	2.0
3321	Gray iron foundries	-	5.8	-	4.0	-	6.0	-	2.4	-	2.3
3322	Malleable iron foundries	-	6.3	-	4.2	-	5.4	-	2.5	-	1.7
3323	Steel foundries	-	4.9	-	4.0	-	5.0	-	2.2	-	1.3
333,4	Nonferrous metals	-	4.8	-	4.2	-	2.6	-	1.4	-	.4
335	Nonferrous rolling and drawing	-	3.9	-	2.0	-	3.6	-	1.1	-	1.8
3351	Copper rolling and drawing	-	2.3	-	1.2	-	2.2	-	.7	-	.8
3352	Aluminum rolling and drawing	-	3.3	-	1.7	-	3.0	-	1.2	-	1.0
3357	Nonferrous wire drawing, and insulating	-	5.7	-	2.6	-	5.3	-	1.3	-	3.3
336	Nonferrous foundries	-	5.1	-	3.5	-	5.3	-	2.4	-	1.6
3361	Aluminum castings	-	5.5	-	3.7	-	5.8	-	2.6	-	1.7
3362,9	Other nonferrous castings	-	4.6	-	3.2	-	4.7	-	2.2	-	1.4
339	Miscellaneous primary metal products	-	4.1	-	2.4	-	4.7	-	1.3	-	2.5
3391	Iron and steel forgings	-	4.7	-	2.8	-	4.7	-	1.2	-	2.6

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	
		July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970
<i>Durable Goods--Continued</i>											
34	FABRICATED METAL PRODUCTS	-	5.7	-	4.2	-	4.8	-	2.1	-	1.6
341	Metal cans	-	7.2	-	4.7	-	4.4	-	1.4	-	1.4
342	Cutlery, hand tools, and hardware	-	4.5	-	2.9	-	4.3	-	1.7	-	1.9
3421,3,5	Cutlery and hand tools, incl. saws	-	4.4	-	3.2	-	2.9	-	1.8	-	.4
3429	Hardware, n e c	-	4.5	-	2.6	-	5.4	-	1.6	-	2.9
343	Plumbing and heating, except electric	-	5.5	-	4.6	-	4.1	-	2.0	-	1.1
3431,2	Sanitary ware & plumbers' brass goods	-	5.5	-	4.4	-	4.7	-	1.9	-	1.6
3433	Heating equipment, except electric	-	5.5	-	4.7	-	3.7	-	2.1	-	.8
344	Fabricated structural metal products	-	6.4	-	5.4	-	4.7	-	2.5	-	1.1
3441	Fabricated structural steel	-	6.8	-	5.8	-	5.2	-	2.5	-	1.6
3443	Fabricated plate work (boiler shops)	-	4.5	-	4.0	-	3.6	-	1.8	-	.8
3446,9	Architectural and misc. metal work	-	7.4	-	5.3	-	4.6	-	2.5	-	1.1
345	Screw machine products, bolts, etc.	-	4.5	-	3.4	-	3.8	-	1.9	-	1.0
3452	Bolts, nuts, rivets, and washers	-	3.5	-	2.6	-	3.1	-	1.3	-	1.1
346	Metal stampings	-	5.1	-	2.6	-	5.3	-	1.5	-	2.9
348	Misc. fabricated wire products	-	6.3	-	4.8	-	5.5	-	2.8	-	1.7
349	Misc. fabricated metal products	-	4.6	-	3.8	-	3.9	-	2.0	-	.9
3494,8	Valves, pipe, and pipe fittings	-	4.0	-	3.2	-	3.7	-	1.8	-	.9
35	MACHINERY, EXCEPT ELECTRICAL	2.1	3.7	1.5	2.6	3.9	3.7	1.2	1.3	1.9	1.5
351	Engines and turbines	-	8.2	-	4.3	-	4.2	-	.8	-	2.1
3511	Steam engines and turbines	-	2.5	-	2.0	-	2.5	-	.7	-	.1
3519	Internal combustion engines, n e c	-	11.7	-	5.7	-	5.2	-	.9	-	3.3
352	Farm machinery	-	3.8	-	2.3	-	5.3	-	1.3	-	2.9
353	Construction and related machinery	-	3.5	-	2.7	-	3.8	-	1.4	-	1.3
3531,2	Construction and mining machinery	-	3.0	-	2.2	-	4.3	-	1.1	-	1.8
3533	Oil field machinery	-	3.9	-	3.5	-	3.3	-	2.0	-	.3
3535,6	Conveyors, hoists, cranes, monorails	-	3.3	-	2.9	-	3.1	-	1.4	-	.8
354	Metal working machinery	-	3.0	-	2.1	-	4.0	-	1.1	-	2.1
3541	Machine tools, metal cutting types	-	2.1	-	1.5	-	3.2	-	.9	-	1.6
3545	Machine tool accessories	-	2.4	-	1.7	-	2.8	-	1.2	-	1.0
3542,8	Misc. metal working machinery	-	2.9	-	1.8	-	2.7	-	1.1	-	1.1
355	Special industry machinery	-	2.6	-	2.0	-	2.9	-	1.2	-	1.1
3551	Food products machinery	-	3.0	-	2.5	-	3.5	-	1.2	-	1.6
3552	Textile machinery	-	2.2	-	1.8	-	3.4	-	1.5	-	1.4
356	General industrial machinery	-	3.8	-	2.6	-	3.1	-	1.4	-	1.0
3561	Pumps and compressors	-	3.2	-	2.4	-	2.9	-	1.3	-	.9
3562	Ball and roller bearings	-	4.0	-	1.9	-	3.6	-	1.2	-	1.7
3566	Power transmission equipment	-	3.7	-	2.6	-	3.0	-	1.1	-	1.1
357	Office and computing machines	-	2.6	-	1.8	-	3.2	-	1.1	-	1.6
3573	Electronic computing equipment	-	2.5	-	1.9	-	3.0	-	1.1	-	1.1
358	Service industry machines	-	5.3	-	4.1	-	3.8	-	2.0	-	.8
3585	Refrigeration machinery	-	5.5	-	4.2	-	3.8	-	2.0	-	.6
36	ELECTRICAL EQUIPMENT AND SUPPLIES	3.1	4.1	1.9	2.8	4.0	4.1	1.6	1.6	1.4	1.4
361	Electric test & distributing equipment	-	3.6	-	2.8	-	3.6	-	1.7	-	1.0
3611	Electric measuring instruments	-	3.6	-	2.7	-	4.6	-	1.8	-	1.8
3612	Transformers	-	3.8	-	3.0	-	3.6	-	1.8	-	.8
3613	Switchgear and switchboard apparatus	-	3.5	-	2.7	-	2.8	-	1.5	-	.5
362	Electrical industrial apparatus	-	4.4	-	3.4	-	3.4	-	1.6	-	1.0
3621	Motors and generators	-	4.2	-	3.0	-	3.5	-	1.5	-	1.2
3622	Industrial controls	-	4.4	-	3.7	-	3.7	-	1.9	-	.9
363	Household appliances	-	5.0	-	3.8	-	3.6	-	1.8	-	.7
3632	Household refrigerators and freezers	-	5.7	-	3.9	-	3.7	-	1.8	-	.7
3633	Household laundry equipment	-	5.8	-	4.7	-	2.9	-	1.0	-	1.3
3634	Electric housewares and fans	-	4.6	-	3.8	-	3.9	-	2.2	-	.7
364	Electric lighting and wiring equipment	-	4.5	-	3.5	-	4.4	-	1.9	-	1.5
3641	Electric lamps	-	3.2	-	2.5	-	2.8	-	1.5	-	.5
3642	Lighting fixtures	-	5.6	-	4.4	-	5.7	-	1.9	-	2.7
3643,4	Wiring devices	-	4.4	-	3.3	-	4.2	-	2.2	-	1.0
365	Radio and TV receiving equipment	-	5.8	-	2.3	-	5.1	-	1.7	-	2.1
366	Communication equipment	-	3.2	-	2.3	-	3.3	-	1.4	-	1.3
3661	Telephone and telegraph apparatus	-	4.8	-	4.3	-	2.8	-	1.9	-	.3
3662	Radio and TV communication equipment	-	2.4	-	1.3	-	3.5	-	1.1	-	1.7
367	Electronic components and accessories	-	4.0	-	2.5	-	5.8	-	1.9	-	2.5
3671-3	Electron tubes	-	4.4	-	2.8	-	5.2	-	1.3	-	2.7
3674,9	Other electronic components	-	3.9	-	2.5	-	5.9	-	2.0	-	2.5
369	Misc. electrical equipment & supplies	-	4.1	-	2.6	-	3.2	-	1.4	-	.8
3694	Engine electrical equipment	-	3.8	-	1.6	-	2.5	-	.9	-	.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	
		July 1970 ^p	June 1970	July 1970 ^p	June 1970	July 1970 ^p	June 1970	July 1970 ^p	June 1970	July 1970 ^p	June 1970
<i>Durable Goods--Continued</i>											
37	TRANSPORTATION EQUIPMENT	-	4.4	-	2.3	-	5.0	-	1.3	-	2.9
371	Motor vehicles and equipment	-	5.5	-	2.2	-	5.0	-	1.0	-	3.1
3711	Motor vehicles	-	5.9	-	2.0	-	5.3	-	1.1	-	3.4
3712	Passenger car bodies	-	6.3	-	1.6	-	11.6	-	.4	-	10.5
3713	Truck and bus bodies	-	7.5	-	6.5	-	5.1	-	2.4	-	.9
3714	Motor vehicle parts and accessories	-	4.8	-	1.9	-	3.7	-	.8	-	1.9
372	Aircraft and parts	-	1.6	-	.9	-	3.4	-	.8	-	2.2
3721	Aircraft	-	1.4	-	.6	-	3.8	-	.8	-	2.7
3722	Aircraft engines and engine parts	-	1.6	-	1.1	-	2.5	-	.8	-	1.2
3723,9	Other aircraft parts and equipment	-	2.6	-	1.7	-	3.3	-	1.1	-	1.8
373	Ship and boat building and repairing	-	6.5	-	4.1	-	9.6	-	2.6	-	5.9
3731	Ship building and repairing	-	7.1	-	4.4	-	8.2	-	2.3	-	4.6
374	Railroad equipment	-	5.4	-	3.2	-	4.4	-	1.2	-	2.2
375,9	Other transportation equipment	-	9.8	-	8.6	-	7.4	-	4.4	-	1.1
38	INSTRUMENTS AND RELATED PRODUCTS	2.7	3.9	2.1	2.9	3.2	3.4	1.5	1.5	1.0	1.1
381	Engineering & scientific instruments	-	2.0	-	1.4	-	3.7	-	1.2	-	1.8
382	Mechanical measuring & control devices	-	4.0	-	2.9	-	3.4	-	1.5	-	1.0
3821	Mechanical measuring devices	-	3.6	-	3.1	-	3.4	-	1.5	-	1.2
3822	Automatic temperature controls	-	4.6	-	2.6	-	3.4	-	1.6	-	.5
383,5	Optical and ophthalmic goods	-	3.6	-	2.6	-	4.1	-	1.6	-	1.4
384	Medical instruments and supplies	-	4.4	-	3.7	-	3.7	-	2.0	-	.8
386	Photographic equipment and supplies	-	4.5	-	3.7	-	2.3	-	1.0	-	.9
387	Watches, clocks, and watchcases	-	4.1	-	2.0	-	4.6	-	1.8	-	1.6
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	6.5	6.4	4.1	4.7	6.6	5.4	2.8	2.6	2.8	1.7
391	Jewelry, silverware, and plated ware	-	3.3	-	2.2	-	3.8	-	2.0	-	.8
394	Toys and sporting goods	-	10.5	-	7.2	-	7.4	-	3.7	-	2.2
3941-3	Games, toys, dolls, & play vehicles	-	13.5	-	9.3	-	7.3	-	4.1	-	1.6
3949	Sporting and athletic goods, n e c	-	6.5	-	4.3	-	7.6	-	3.2	-	3.1
395	Pens, pencils, office and art supplies	-	4.6	-	3.6	-	4.7	-	2.1	-	1.7
396	Costume jewelry and notions	-	5.6	-	4.2	-	4.3	-	2.3	-	1.2
393,9	Other manufacturing industries	-	5.2	-	4.1	-	5.0	-	2.2	-	1.8
<i>Nondurable Goods</i>											
20	FOOD AND KINDRED PRODUCTS	8.4	9.9	5.8	7.2	6.6	5.9	3.1	3.1	2.6	1.9
201	Meat products	-	10.1	-	6.8	-	6.9	-	3.7	-	2.3
2011	Meat packing plants	-	8.3	-	4.2	-	6.3	-	1.9	-	3.7
2015	Poultry dressing plants	-	16.7	-	13.4	-	10.2	-	8.3	-	.7
204	Grain mill products	-	5.6	-	4.3	-	3.9	-	2.1	-	1.1
2041	Flour and other grain mill products	-	6.0	-	4.4	-	3.2	-	1.5	-	1.1
2042	Prepared feeds for animals and fowls	-	5.3	-	4.4	-	4.7	-	2.7	-	1.3
205	Bakery products	-	6.0	-	4.8	-	4.4	-	2.8	-	.8
2051	Bread, cake, and related products	-	5.8	-	5.0	-	4.3	-	3.0	-	.7
2052	Cookies and crackers	-	6.9	-	3.9	-	4.5	-	1.9	-	1.6
207	Confectionery and related products	-	8.0	-	5.3	-	5.8	-	3.0	-	2.1
2071	Confectionery products	-	8.5	-	5.4	-	6.4	-	3.2	-	2.4
208	Beverages	-	8.1	-	6.1	-	5.5	-	2.8	-	1.7
2082	Malt liquors	-	5.4	-	2.8	-	4.2	-	.5	-	3.1
21	TOBACCO MANUFACTURES	9.1	5.2	4.1	3.3	2.9	2.8	1.3	1.6	1.0	.4
211	Cigarettes	-	3.7	-	2.4	-	1.1	-	.6	-	(1)
212	Cigars	-	6.4	-	5.5	-	6.0	-	4.4	-	.7

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	
		July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970
	<i>Nondurable Goods--Continued</i>										
22	TEXTILE MILL PRODUCTS	5.3	5.4	3.9	4.3	5.9	5.1	3.5	3.3	1.3	0.8
221	Weaving mills, cotton.....	-	5.5	-	4.4	-	5.1	-	3.7	-	.2
222	Weaving mills, synthetics.....	-	4.3	-	3.5	-	4.9	-	3.0	-	1.0
223	Weaving and finishing mills, wool.....	-	4.9	-	3.9	-	5.2	-	2.7	-	1.4
224	Narrow fabric mills.....	-	3.6	-	2.8	-	4.9	-	2.7	-	1.2
225	Knitting mills.....	-	5.8	-	4.7	-	5.2	-	3.2	-	1.2
2251	Women's hosiery, except socks.....	-	4.4	-	4.0	-	4.9	-	3.3	-	1.0
2252	Hosiery, n e c.....	-	5.8	-	4.5	-	4.4	-	3.1	-	.5
2254	Knit underwear mills.....	-	4.2	-	3.2	-	4.1	-	3.4	-	.3
226	Textile finishing, except wool.....	-	4.4	-	3.4	-	3.7	-	2.4	-	.4
227	Floor covering mills.....	-	4.8	-	3.8	-	4.5	-	2.5	-	.9
228	Yarn and thread mills.....	-	6.5	-	5.2	-	6.0	-	4.2	-	.7
229	Miscellaneous textile goods.....	-	6.0	-	4.1	-	5.3	-	2.7	-	1.3
23	APPAREL AND OTHER TEXTILE PRODUCTS	6.5	6.2	3.8	4.2	7.8	5.6	3.1	2.8	3.8	1.9
231	Men's and boys' suits and coats.....	-	1.8	-	1.2	-	2.7	-	1.1	-	1.2
232	Men's and boys' furnishings.....	-	6.3	-	5.1	-	5.4	-	3.7	-	.8
2321	Men's and boys' shirts and nightwear.....	-	6.2	-	4.9	-	5.2	-	3.7	-	.5
2327	Men's and boys' separate trousers.....	-	5.6	-	4.8	-	5.1	-	3.9	-	.6
2328	Men's and boys' work clothing.....	-	5.9	-	4.9	-	5.7	-	4.1	-	.6
234	Women's and children's undergarments.....	-	5.6	-	4.2	-	5.3	-	3.4	-	1.1
2341	Women's and children's underwear.....	-	6.4	-	4.8	-	5.8	-	3.8	-	1.2
2342	Corsets and allied garments.....	-	3.8	-	2.6	-	4.3	-	2.4	-	1.1
26	PAPER AND ALLIED PRODUCTS	3.2	5.1	2.6	4.1	3.4	3.3	1.8	1.9	.8	.6
261,2,6	Paper and pulp mills.....	-	4.1	-	3.4	-	1.8	-	.9	-	.3
263	Paperboard mills.....	-	4.2	-	3.5	-	2.0	-	1.2	-	.2
264	Misc. converted paper products.....	-	5.4	-	4.3	-	4.3	-	2.5	-	.9
2643	Bags, except textile bags.....	-	5.5	-	4.6	-	5.6	-	3.4	-	1.0
265	Paperboard containers and boxes.....	-	6.2	-	4.9	-	4.4	-	2.6	-	.7
2651,2	Folding and setup paperboard boxes.....	-	5.8	-	4.7	-	4.3	-	2.7	-	.5
2653	Corrugated and solid fiber boxes.....	-	6.0	-	4.9	-	4.1	-	2.5	-	.7
27	PRINTING AND PUBLISHING	2.9	4.3	2.4	3.5	3.0	3.4	1.8	2.0	.6	.7
28	CHEMICALS AND ALLIED PRODUCTS	2.3	3.7	1.8	3.0	2.5	2.4	1.1	1.1	.7	.6
281	Industrial chemicals.....	-	3.0	-	2.5	-	1.6	-	.8	-	.3
282	Plastics materials and synthetics.....	-	2.5	-	1.9	-	1.7	-	.8	-	.3
2821	Plastics materials and resins.....	-	3.1	-	2.6	-	1.7	-	.8	-	.3
2823,4	Synthetic fibers.....	-	2.0	-	1.2	-	1.7	-	.8	-	.4
283	Drugs.....	-	4.5	-	3.9	-	2.2	-	1.2	-	.5
2834	Pharmaceutical preparations.....	-	4.5	-	3.8	-	2.3	-	1.3	-	.5
284	Soap, cleaners, and toilet goods.....	-	5.5	-	4.7	-	3.0	-	1.5	-	.6
2841	Soap and other detergents.....	-	5.1	-	4.1	-	1.7	-	.9	-	.3
2844	Toilet preparations.....	-	6.4	-	5.4	-	4.3	-	2.1	-	1.2
285	Paints and allied products.....	-	4.6	-	4.0	-	2.1	-	1.3	-	.1
286,9	Other chemical products.....	-	3.8	-	2.7	-	3.3	-	1.4	-	.9
29	PETROLEUM AND COAL PRODUCTS	2.1	4.4	1.8	4.1	2.0	2.3	.9	1.0	.4	.5
291	Petroleum refining.....	-	3.6	-	3.3	-	1.7	-	.6	-	.5
295,9	Other petroleum and coal products.....	-	7.8	-	6.9	-	4.8	-	2.8	-	.5
30	RUBBER AND PLASTICS PRODUCTS, N E C	5.1	6.1	3.5	4.7	5.2	5.1	2.7	2.6	1.3	1.3
301	Tires and inner tubes.....	-	3.7	-	2.5	-	2.1	-	1.1	-	.3
302,3,6	Other rubber products.....	-	5.4	-	4.0	-	4.9	-	2.3	-	1.4
307	Miscellaneous plastics products.....	-	7.3	-	5.9	-	6.3	-	3.4	-	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	
		July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970	July 1970 ^P	June 1970
	<i>Nondurable Goods--Continued</i>										
31	LEATHER AND LEATHER PRODUCTS	7.1	6.9	4.8	5.4	7.8	5.7	3.8	3.5	2.4	1.1
311	Leather tanning and finishing	-	5.8	-	4.8	-	4.5	-	2.4	-	1.2
314	Footwear, except rubber	-	6.7	-	5.4	-	5.2	-	3.5	-	.5
	NONMANUFACTURING										
10	METAL MINING	3.0	7.3	2.4	6.3	2.9	3.1	1.4	2.0	.5	.2
101	Iron ores	-	5.7	-	4.8	-	1.9	-	.8	-	.1
102	Copper ores	-	7.7	-	6.3	-	3.0	-	1.8	-	(1)
11,12	COAL MINING	1.5	2.7	1.2	1.9	1.3	1.3	.7	.6	.1	.1
12	Bituminous coal and lignite mining	1.5	2.7	1.2	1.9	1.3	1.2	.7	.7	.1	.1
	COMMUNICATION:										
481	Telephone communication	-	5.5	-	-	-	2.4	-	1.9	-	.1
482	Telegraph communication ²	-	5.5	-	-	-	3.0	-	1.7	-	.8

¹ Less than 0.05.

² Data relate to all employees except messengers.

p= Preliminary.

ESTABLISHMENT DATA 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.
Total accessions												
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	3.9 ^p					
New hires												
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 ^p					
Total separations												
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	4.7 ^p					
Quits												
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 ^p					
Layoffs												
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 ^p	1.2	1.2	1.3	1.3	1.4
1970.....	1.5	1.7	1.8	2.0	1.9	1.9	1.5 ^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	
	June 1970 ^P	May 1970	June 1970 ^P	May 1970	June 1970 ^P	May 1970	June 1970 ^P	May 1970	June 1970 ^P	May 1970
ALABAMA:										
Birmingham	3.6	3.9	2.7	3.0	2.2	3.9	1.1	1.8	0.4	1.3
Mobile ¹	6.7	5.7	5.1	4.3	4.9	4.8	2.4	2.3	1.8	1.2
ALASKA	46.9	38.5	33.2	22.5	9.9	7.7	4.0	4.6	4.0	2.6
ARIZONA	5.2	4.4	4.0	3.6	5.4	6.2	2.9	3.0	1.4	1.8
Phoenix	4.8	3.8	3.5	3.2	5.3	6.2	2.7	2.8	1.4	2.1
ARKANSAS	7.5	6.5	6.5	5.4	5.7	6.1	3.9	4.4	.9	.9
Fort Smith	8.3	7.0	7.7	6.4	6.4	6.5	4.6	5.3	.8	.2
Little Rock-North Little Rock	7.0	5.8	6.5	5.5	4.6	5.6	3.1	4.7	.5	.3
Pine Bluff	6.6	4.4	4.7	3.8	4.8	5.8	3.3	4.1	.6	.8
COLORADO	6.2	4.9	5.1	3.8	4.1	4.3	2.2	2.5	.6	.8
Denver	5.7	5.0	5.0	4.1	3.9	4.3	2.5	2.5	.3	.8
CONNECTICUT	3.3	2.5	2.4	1.8	3.5	3.4	1.6	1.8	1.2	.9
Hartford	2.2	1.9	1.7	1.3	2.7	2.7	1.3	2.7	.6	.5
DELAWARE¹	4.2	2.3	2.7	1.2	2.9	2.7	1.3	1.2	.5	.7
Wilmington ¹	4.0	2.3	2.6	1.2	2.9	2.5	1.2	1.1	.6	.6
DISTRICT OF COLUMBIA:										
Washington SMSA	3.0	2.5	2.7	2.5	2.3	2.8	1.8	2.0	.1	.2
FLORIDA	6.4	6.0	5.4	5.1	8.0	7.8	3.8	4.2	3.1	2.5
Fort Lauderdale-Hollywood	8.7	6.8	7.9	6.0	7.7	9.0	5.3	5.7	.9	1.6
Jacksonville	4.7	5.9	4.2	5.5	4.1	6.1	2.6	4.5	.4	4.4
Miami	5.2	4.9	4.7	4.5	5.4	6.2	2.6	3.4	1.9	2.1
Orlando	3.2	6.2	2.2	4.3	3.9	5.3	2.1	3.5	1.0	1.1
Pensacola	1.7	1.0	1.6	1.0	1.9	1.2	.9	.8	.8	.3
Tampa-St. Petersburg	6.1	6.2	5.1	5.5	8.5	7.1	4.1	4.6	3.2	1.4
West Palm Beach	6.4	6.0	6.0	5.5	6.4	6.1	4.2	3.5	(2)	1.5
GEORGIA³	6.2	5.1	5.1	4.1	5.2	5.8	3.6	3.7	.6	1.0
Atlanta	5.5	5.5	4.7	4.3	4.9	5.9	3.6	3.7	.6	1.3
HAWAII⁴	3.8	2.7	2.9	2.4	3.0	3.2	1.7	1.5	.4	.9
IDAHO⁵	9.7	11.4	7.1	5.0	4.8	4.7	2.8	2.3	1.0	1.2
ILLINOIS:										
Chicago	5.2	3.8	4.1	2.7	4.1	4.6	2.1	2.1	.8	1.5
INDIANA¹	5.0	3.8	3.4	2.1	3.6	4.0	1.6	1.7	1.0	1.4
Indianapolis ⁶	3.9	2.6	2.8	1.6	3.9	3.6	1.6	1.5	1.0	1.0
IOWA	5.4	3.9	3.7	2.6	3.4	4.6	1.8	1.9	1.0	2.1
Cedar Rapids	3.0	3.9	1.8	2.7	5.4	5.9	1.3	1.6	3.6	3.7
Des Moines	6.4	4.9	4.8	4.1	4.8	6.1	3.1	3.2	.4	2.1
KANSAS	4.5	3.9	3.2	2.8	4.7	5.9	1.9	2.6	1.9	2.6
Topeka	4.9	3.5	2.5	2.9	4.1	5.9	2.2	2.5	1.2	2.2
Wichita	2.6	2.6	1.9	1.9	4.1	5.2	1.1	1.3	2.3	3.4
KENTUCKY	4.4	3.9	3.6	2.9	3.7	3.8	2.0	2.2	1.0	.9
Louisville	3.6	3.6	2.8	2.7	2.9	3.2	1.5	1.5	.5	.8
LOUISIANA:										
New Orleans	6.7	6.0	5.4	4.9	4.6	5.0	1.8	2.0	1.2	1.7
MAINE	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Portland	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
MARYLAND	4.8	3.6	3.6	2.5	4.3	3.7	1.8	1.8	1.7	1.0
Baltimore	4.7	3.6	3.5	2.4	4.4	3.7	1.8	1.8	1.7	.9

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA LABOR TURNOVER

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

State and area	(Per 100 employees)									
	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	June 1970 ^P	May 1970	June 1970 ^P	May 1970	June 1970 ^P	May 1970	June 1970 ^P	May 1970	June 1970 ^P	May 1970
MASSACHUSETTS.....	5.2	4.3	4.1	2.7	4.5	4.5	2.5	2.1	1.0	1.2
Boston.....	4.9	4.3	4.0	2.6	4.2	4.1	2.4	1.9	1.0	1.4
MICHIGAN.....	(*)	4.2	(*)	1.5	(*)	4.2	(*)	1.0	(*)	2.3
Detroit.....	5.0	4.6	2.4	1.6	5.7	4.2	1.2	1.1	3.3	2.1
MINNESOTA.....	7.1	4.9	5.5	3.4	4.2	5.0	2.4	2.9	.9	1.2
Minneapolis-St. Paul.....	5.6	4.3	4.2	3.1	4.0	5.4	2.3	2.7	.9	1.8
MISSISSIPPI:										
Jackson.....	6.0	5.2	4.8	4.2	4.3	5.5	2.6	3.3	.7	1.4
MISSOURI.....	5.4	4.3	3.9	2.6	4.0	4.7	2.1	2.0	1.1	1.7
Kansas City.....	5.4	4.1	3.5	2.8	4.1	4.6	2.0	.5	1.3	1.5
St. Louis.....										
MONTANA.....	8.5	6.4	7.1	4.7	4.3	4.1	2.5	2.3	.9	.8
NEBRASKA.....	5.8	6.2	5.0	5.4	4.5	5.1	3.2	3.6	.4	.7
NEVADA.....	8.8	6.6	7.5	5.3	6.4	7.7	3.5	4.0	1.1	1.5
NEW HAMPSHIRE.....	5.6	4.8	4.8	4.1	5.3	5.5	3.5	3.7	1.0	1.0
NEW JERSEY:										
Camden ⁷	4.7	3.9	3.7	2.8	4.6	4.1	1.7	1.8	2.0	1.4
Jersey City.....	4.6	3.3	2.9	2.1	4.2	3.9	1.6	1.4	1.7	1.6
Newark.....	4.9	3.8	3.8	2.9	3.8	3.5	1.6	1.7	1.3	.9
Paterson-Clifton-Passaic.....	5.0	4.3	3.8	2.8	3.9	4.4	1.9	1.9	1.1	1.5
Perth Amboy.....	5.9	3.3	4.2	2.7	3.3	3.2	1.5	1.6	.9	.8
Trenton.....	4.9	3.8	3.9	2.5	3.1	3.7	1.7	1.9	.6	1.0
NEW YORK.....	5.0	4.0	3.4	2.5	4.6	4.7	1.7	1.7	2.0	2.2
Albany-Schenectady-Troy.....	4.2	2.9	3.2	1.9	3.1	3.1	1.5	1.5	.6	.6
Binghamton.....	3.0	1.8	2.1	1.2	2.2	2.3	1.2	1.3	.5	.4
Buffalo.....	4.0	3.0	2.7	1.6	3.4	3.0	1.2	.9	1.4	1.4
Elmira.....	4.9	5.5	4.1	3.4	4.6	3.9	1.5	1.8	1.9	.9
Monroe County ⁸	4.0	2.2	3.4	1.7	2.8	2.5	1.3	1.2	.9	.7
Nassau and Suffolk Counties ⁹	4.3	3.5	3.4	2.7	4.7	4.6	2.2	2.1	1.6	1.8
New York SMSA.....	5.7	4.6	3.6	3.0	5.5	6.2	1.9	1.8	2.6	3.4
New York City ⁹	6.2	4.9	3.7	3.0	5.9	6.8	1.8	1.8	3.0	4.0
Rochester.....	4.4	2.4	3.7	1.9	3.0	2.7	1.4	1.3	.9	.9
Syracuse.....	3.1	2.2	2.0	1.3	2.9	2.9	1.3	1.3	1.0	.9
Utica-Rome.....	3.3	3.4	2.0	2.2	3.5	3.0	1.4	1.4	1.5	1.1
Westchester County ⁹	4.0	3.9	3.0	2.8	3.7	4.1	1.6	1.8	1.2	1.5
NORTH CAROLINA.....	5.9	4.4	5.0	3.6	4.5	4.8	3.3	3.5	.3	.4
Charlotte.....	5.9	5.6	5.6	5.0	5.8	4.7	4.2	3.6	.8	.3
Greensboro-Winston-Salem-High Point.....	5.8	4.0	4.8	3.4	3.9	4.0	2.8	2.9	.1	.1
NORTH DAKOTA.....	7.1	6.0	5.9	5.0	4.0	4.7	2.5	3.0	.8	.8
Fargo-Moorhead.....	7.0	5.3	5.4	4.2	4.0	4.9	2.4	3.7	1.1	.5
OHIO.....	4.7	3.7	3.3	2.0	3.2	3.7	1.5	1.4	.9	1.5
Akron.....	3.2	2.3	2.0	1.4	2.5	2.7	1.2	1.1	.6	1.1
Canton.....	6.4	4.6	3.0	2.1	3.3	4.2	1.4	1.4	.8	1.7
Cincinnati.....	4.2	3.9	2.9	2.6	3.5	4.0	1.6	1.7	.8	1.3
Cleveland.....	4.6	3.9	3.3	1.9	3.1	3.7	1.6	1.4	.6	1.4
Columbus.....	4.7	3.8	3.5	2.6	3.9	4.3	2.1	2.0	1.0	1.4
Dayton.....	4.1	2.4	3.0	1.5	3.4	3.0	1.4	1.3	.7	.9
Toledo.....	5.7	4.1	4.2	2.3	3.7	3.9	1.3	1.3	1.0	1.5
Youngstown-Warren.....	5.0	4.7	3.4	1.2	2.4	4.2	.8	.8	.7	2.4
OKLAHOMA:										
Oklahoma City.....	8.7	6.7	7.5	5.8	6.5	6.2	4.0	4.4	1.4	1.0
Tulsa ¹⁰	8.5	7.0	6.6	6.2	6.5	7.0	3.8	4.1	1.3	1.3
OREGON ¹	6.2	5.9	4.8	3.8	4.4	4.6	2.1	2.0	1.6	1.8
Portland ¹	5.1	5.5	3.6	3.2	4.6	5.0	1.8	1.9	2.0	2.3

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

State and area	(Per 100 employees)									
	Accession rates				Separation rates					
	Total		New hires		Total		Quits		Layoffs	
	June ^p 1970	May 1970	June ^p 1970	May 1970	June ^p 1970	May 1970	June ^p 1970	May 1970	June ^p 1970	May 1970
PENNSYLVANIA:										
Allentown-Bethlehem-Easton	3.6	2.8	2.7	2.0	2.8	2.8	1.4	1.4	0.8	0.7
Altoona	5.3	5.2	4.7	4.1	3.9	5.2	3.0	3.3	.4	1.2
Erie	6.1	5.1	4.5	3.3	4.1	4.5	2.1	2.3	1.0	1.1
Harrisburg	6.0	3.3	4.5	2.2	2.7	3.5	1.6	1.6	.5	1.4
Johnstown	2.0	2.3	1.3	1.2	2.3	3.3	.9	1.0	1.0	1.7
Lancaster	5.9	5.0	4.9	3.5	4.0	5.1	2.6	3.1	.4	1.2
Philadelphia	3.7	3.6	3.0	2.6	3.4	3.8	1.5	1.6	1.2	1.4
Pittsburgh	3.7	2.9	2.0	1.4	2.0	3.1	.7	.7	.7	1.7
Reading	4.7	3.1	3.9	2.4	3.7	4.1	2.3	2.1	.8	1.3
Scranton	5.2	3.8	3.5	2.1	4.0	4.2	1.5	1.6	2.1	2.1
Wilkes-Barre-Hazleton	4.9	3.5	3.7	2.2	4.3	4.4	1.8	1.7	1.9	2.1
York	6.1	4.2	5.1	3.3	4.0	4.4	2.6	2.7	.7	1.0
RHODE ISLAND:										
Providence-Pawtucket-Warwick	5.2	5.3	3.9	3.3	5.0	5.3	2.4	2.7	1.8	1.7
Providence-Pawtucket-Warwick	4.9	4.8	3.6	3.0	4.9	5.3	2.3	2.6	1.8	1.8
SOUTH CAROLINA:										
Greenville	6.2	6.0	5.3	5.1	5.1	5.9	3.8	4.4	.2	.2
SOUTH DAKOTA:										
Sioux Falls	5.8	5.8	4.5	4.2	4.0	3.5	2.1	2.2	1.5	.9
Sioux Falls	5.0	6.6	3.1	3.6	4.4	4.0	1.5	1.9	2.7	1.8
TENNESSEE:										
Memphis	5.2	4.4	4.4	3.6	4.8	4.9	2.7	2.5	1.0	1.3
TEXAS:										
Dallas	4.7	3.8	4.1	3.3	5.3	5.5	3.1	3.4	1.3	1.1
Fort Worth	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Houston	5.4	4.0	5.1	3.6	3.8	4.2	2.4	2.7	.3	.4
San Antonio	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
UTAH ⁵:										
Salt Lake City ⁵	10.0	4.6	6.7	3.1	4.5	4.0	2.7	2.3	.9	.9
Salt Lake City ⁵	10.3	4.0	7.1	3.2	5.3	3.7	3.4	2.2	.8	.6
VERMONT:										
Burlington	3.6	3.1	2.9	2.1	3.9	3.7	2.1	1.7	1.1	1.3
Burlington	4.3	2.2	3.5	1.7	2.7	2.0	1.8	1.2	.4	.3
Springfield	1.6	1.6	1.4	1.4	3.0	5.1	.8	1.2	1.5	2.9
VIRGINIA:										
Richmond	5.0	3.7	3.9	2.8	4.0	4.1	2.6	2.6	.7	.8
Richmond	4.0	2.4	3.3	1.9	3.3	3.2	2.1	1.9	.6	.7
WASHINGTON: ¹¹										
Seattle-Everett	2.6	2.0	1.9	1.3	5.1	4.3	1.4	1.2	3.2	2.5
WEST VIRGINIA:										
Charleston	3.0	1.6	2.5	1.2	.9	1.0	.3	.4	.2	.1
WISCONSIN:										
Milwaukee	6.1	3.4	4.5	2.1	3.6	3.9	1.6	1.6	1.1	1.4
Milwaukee	5.2	3.7	3.7	2.3	3.8	4.6	1.8	1.7	.9	1.9
WYOMING:										
.	9.1	6.5	7.8	4.9	4.6	5.6	2.6	3.5	1.4	1.3

1 Excludes canning and preserving.
2 Less than 0.05.
3 Excludes agricultural chemicals and miscellaneous manufacturing.
4 Excludes canned fruits, vegetables, preserves, jams and jellies.
5 Excludes canning and preserving, and sugar.
6 Excludes canning and preserving, and newspapers.
7 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area.
8 Subarea of Rochester Standard Metropolitan Statistical Area.
9 Subarea of New York Standard Metropolitan Statistical Area.
10 Excludes new-hire rate for transportation equipment.
11 Excludes canning and preserving, printing and publishing.

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

E-1: Insured unemployment under State programs

(Week including the 12th of the month)

State	Number (in thousands)					Rate (percent of average covered employment)		
	August 1970	July 1970	August 1969	Change to August from ¹		August 1970	July 1970	August 1969
				July 1970	August 1969			
TOTAL²	1,747.9	1774.4	961.7	-26.6	+786.1	3.3	3.3	1.9
SEASONALLY ADJUSTED	1,960.9	1,861.1	1,078.0	+99.8	+882.9	3.7	3.5	2.1
Alabama	20.3	22.5	12.1	-2.2	+8.2	2.9	3.2	1.8
Alaska	2.8	3.2	1.7	-.4	+1.0	5.3	6.1	3.7
Arizona	11.1	12.5	4.7	-1.5	+6.4	3.0	3.4	1.4
Arkansas	11.9	12.4	7.3	-.5	+4.5	3.0	3.1	1.9
California*	267.7	262.2	161.8	+5.5	+105.9	5.1	5.0	3.2
Colorado	5.6	6.0	2.9	-.4	+2.6	1.1	1.2	.6
Connecticut	55.4	52.2	32.3	+3.2	+23.1	5.5	5.2	3.4
Delaware	7.7	5.1	2.2	+2.6	+5.5	4.5	3.0	1.4
District of Columbia	5.9	5.7	3.8	+.2	+2.1	1.7	1.6	1.1
Florida	38.5	38.0	24.4	+.4	+14.1	2.6	2.6	1.8
Georgia	25.9	19.6	11.0	+6.2	+14.8	2.3	1.8	1.1
Hawaii	5.4	5.6	3.4	-.2	+2.0	2.2	2.3	1.5
Idaho	5.3	5.7	3.0	-.4	+2.3	3.5	3.8	2.1
Illinois	72.1	78.2	37.4	-6.1	+34.7	2.2	2.4	1.2
Indiana	26.4	29.4	12.8	-2.9	+13.7	1.8	2.1	.9
Iowa	13.0	12.1	6.8	+1.0	+6.2	2.2	2.1	1.2
Kansas	18.5	15.1	6.2	+3.4	+12.3	4.2	3.4	1.4
Kentucky	14.8	16.5	9.8	-1.7	+5.0	2.4	2.7	1.6
Louisiana	26.2	27.6	17.5	-1.4	+8.7	3.6	3.8	2.4
Maine	9.0	11.2	6.6	-2.3	+2.4	4.0	5.0	3.0
Maryland	21.2	20.2	10.6	+.9	+10.6	2.3	2.2	1.2
Massachusetts	73.3	80.6	40.3	-7.2	+33.1	4.2	4.6	2.4
Michigan	141.3	146.9	59.7	-5.6	+81.6	5.7	6.0	2.5
Minnesota	21.2	19.9	8.2	+1.3	+13.0	2.2	2.0	.9
Mississippi	7.7	8.9	4.9	-1.1	+2.9	2.0	2.3	1.3
Missouri	39.7	32.8	27.4	+6.9	+12.2	3.3	2.7	2.4
Montana	2.8	3.2	1.7	-.4	+1.1	2.3	2.5	1.4
Nebraska	3.8	4.3	2.1	-.4	+1.7	1.3	1.4	.7
Nevada	5.6	5.6	2.8	-	+2.7	3.6	3.6	2.1
New Hampshire	4.2	3.8	1.5	+.4	+2.7	2.2	1.9	.8
New Jersey	85.5	85.2	53.0	+.3	+32.5	4.1	4.1	2.8
New Mexico	7.4	7.0	3.5	+.4	+4.0	4.0	3.8	2.0
New York	187.1	199.9	111.5	-12.7	+75.7	3.3	3.5	2.0
North Carolina	25.0	30.8	13.5	-5.8	+11.5	1.9	2.3	1.1
North Dakota	1.0	1.1	.7	-.1	+.3	1.2	1.3	.9
Ohio	56.6	64.5	23.4	-7.9	+33.2	1.9	2.2	.8
Oklahoma	14.2	14.2	8.1	+.1	+6.1	2.9	2.9	1.7
Oregon	22.1	24.2	12.3	-2.1	+9.7	4.1	4.4	2.4
Pennsylvania	97.5	99.1	53.2	-1.6	+44.3	2.9	2.9	1.6
Puerto Rico *	54.6	40.7	39.6	+13.9	+15.0	9.0	8.3	6.7
Rhode Island	15.7	14.8	9.4	+1.0	+6.3	5.6	5.2	3.4
South Carolina	16.2	18.7	9.0	-2.5	+7.2	2.6	3.1	1.5
South Dakota	1.1	1.2	.8	-.1	+.3	1.2	1.3	.9
Tennessee	27.6	30.8	17.1	-3.2	+10.5	2.9	3.2	1.9
Texas	36.9	36.5	16.5	+.4	+20.3	1.4	1.4	.7
Utah	6.1	6.2	5.0	-.1	+1.1	2.7	2.8	2.3
Vermont	3.0	3.1	1.4	-.1	+1.6	2.9	3.0	1.4
Virginia	9.4	10.8	6.4	-1.4	+3.1	.9	1.1	.7
Washington	75.1	76.2	28.2	-1.1	+46.9	9.1	9.2	3.5
West Virginia	8.6	10.9	6.7	-2.3	+1.9	2.4	3.1	1.9
Wisconsin	32.1	30.8	14.9	+1.3	+17.2	2.8	2.7	1.3
Wyoming .....	.7	.7	.5	-.1	+.2	.9	1.0	.7

¹Based on unrounded data; changes of less than 50 not shown.

²Include 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.

UNEMPLOYMENT INSURANCE DATA

E-2: Insured unemployment¹ in 150 major labor areas²

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

State and area	August 1970	July 1970	State and area	August 1970	July 1970	State and area	August 1970	July 1970	State and area	August 1970	July 1970
ALABAMA			INDIANA			NEW HAMPSHIRE			Pennsylvania--		
Birmingham.....	4.3	4.0	Evansville.....	1.4	1.3	Manchester.....	.8	.8	continued		
Mobile.....	2.3	2.4	Ft. Wayne.....	1.7	1.2				York.....	2.0	2.2
			Gary-Hammond..	2.4	2.7						
			Indianapolis....	5.1	6.2	NEW JERSEY			PUERTO RICO*		
ARIZONA			South Bend.....	2.2	2.2	Atlantic City....	2.4	2.4	Mayaguez.....	2.8	2.5
Phoenix.....	8.0	9.4	Terre Haute.....	.7	.9	Jersey City.....	12.5	12.8	Ponce.....	2.6	2.5
						New Brunswick..	9.5	8.8	San Juan.....	6.4	6.3
			IOWA			Paterson.....	19.0	19.5			
ARKANSAS			Cedar Rapids....	1.0	1.1	Trenton.....	2.4	2.4			
Little Rock.....	1.6	1.9	Des Moines.....	.8	1.1				RHODE ISLAND	18.3	17.9
									Providence.....		
CALIFORNIA			KANSAS			NEW MEXICO					
Anaheim-S. Ana-			Wichita.....	8.2	7.8	Albuquerque....	3.3	3.0			
Garden Grove..	20.1	19.0							SOUTH CAROLINA		
Fresno.....	4.4	4.6	KENTUCKY			NEW YORK			Charleston.....	1.6	1.7
Los Angeles....	128.0	118.3	Louisville.....	4.8	3.8	Albany.....	4.4	4.3	Greenville.....	1.7	1.6
Sacramento.....	8.9	9.6				Binghamton....	2.1	2.3			
San Bernardino..	13.8	13.0	LOUISIANA			Buffalo.....	11.9	17.5			
San Diego.....	17.1	16.5	Baton Rouge....	1.9	2.0	New York.....	142.0	144.4			
San Francisco..	41.0	41.5	New Orleans....	8.0	8.3	Rochester.....	7.6	9.9	TENNESSEE		
San Jose.....	15.0	14.4	Shreveport.....	1.9	2.0	Syracuse.....	5.6	5.3	Chattanooga....	2.2	2.9
Stockton.....	3.5	5.3				Utica.....	3.4	3.5	Knoxville.....	3.0	3.0
			MAINE						Memphis.....	4.3	4.1
COLORADO			Portland.....	1.1	1.0	NORTH CAROLINA			Nashville.....	3.0	3.7
Denver.....	3.5	3.9				Asheville.....	1.2	1.0			
			MARYLAND			Charlotte.....	1.8	1.6	TEXAS		
CONNECTICUT			Baltimore.....	15.7	14.1	Durham.....	.8	.8	Austin.....	.6	.7
Bridgeport.....	9.0	7.8				Greensboro-			Beaumont.....	2.2	2.3
Hartford.....	10.9	7.4	MASSACHUSETTS			Winston-Salem..	2.5	3.1	Corpus Christi..	1.1	1.0
New Britain.....	4.4	3.0	Boston.....	33.7	34.4				Dallas.....	6.6	6.2
New Haven.....	6.1	5.6	Brockton.....	2.4	2.8	OHIO			El Paso.....	1.6	1.6
Stamford.....	2.3	2.0	Fall River.....	3.0	4.0	Akron.....	3.6	4.1	Ft. Worth.....	3.4	3.0
Waterbury.....	5.5	7.7	Lawrence.....	5.5	6.5	Canton.....	1.8	2.6	Houston.....	4.2	4.1
			Lowell.....	3.6	3.8	Cincinnati.....	7.1	6.1	San Antonio.....	3.1	2.4
			New Bedford....	4.0	5.4	Cleveland.....	13.2	15.2			
DELAWARE			Springfield....	7.6	7.8	Columbus.....	3.3	3.9	UTAH		
Wilmington.....	7.6	5.0	Worcester.....	3.7	3.7	Dayton.....	3.8	3.7	Salt Lake City..	3.7	3.7
						Hamilton.....	1.2	1.2			
DIST. OF COL.			MICHIGAN			Lorain.....	1.8	1.7			
Washington.....	10.1	8.2	Battle Creek....	1.9	1.9	Steubenville...	.6	.7	VIRGINIA		
			Detroit.....	73.9	74.3	Toledo.....	4.3	4.8	Hampton.....	1.4	1.4
			Flint.....	15.1	22.4	Youngstown....	2.1	4.1	Norfolk.....	1.4	1.3
FLORIDA			Grand Rapids...	8.0	7.4				Richmond.....	.8	.8
Jacksonville...	.7	.6	Kalamazoo.....	2.1	2.1	OKLAHOMA			Roanoke.....	.3	.3
Miami.....	10.5	10.5	Lansing.....	11.5	3.9	Oklahoma City..	2.5	2.4			
Tampa.....	4.5	5.1	Muskegon.....	3.2	2.8	Tulsa.....	3.1	2.8	WASHINGTON		
			Saginaw.....	1.4	4.6				Seattle.....	43.8	41.6
						OREGON			Spokane.....	4.2	4.1
GEORGIA			MINNESOTA			Portland.....	13.5	14.3	Tacoma.....	7.9	7.6
Atlanta.....	12.8	4.7	Duluth.....	1.4	1.2						
Augusta.....	1.6	1.6	Minneapolis....	14.6	11.1	PENNSYLVANIA			WEST VIRGINIA		
Columbus.....	1.3	1.3				Allentown.....	4.0	5.5	Charleston.....	1.1	1.2
Macon.....	1.5	1.7	MISSISSIPPI			Altoona.....	1.3	1.3	Huntington.....	1.7	1.9
Savannah.....	1.2	.9	Jackson.....	.9	1.0	Erie.....	1.7	1.7	Wheeling.....	1.0	1.4
						Harrisburg.....	1.7	1.6			
HAWAII			MISSOURI			Johnstown.....	2.5	2.9			
Honolulu.....	4.3	4.3	Kansas City....	12.7	9.7	Lancaster.....	.9	1.0	WISCONSIN		
			St. Louis.....	24.9	19.5	Philadelphia...	44.0	41.7	Kenosha.....	1.2	1.4
						Pittsburgh.....	17.1	16.9	Madison.....	1.0	1.1
ILLINOIS			NEBRASKA			Reading.....	2.6	3.1	Milwaukee.....	11.3	11.1
Chicago.....	42.9	50.7	Omaha.....	2.0	1.9	Seranton.....	3.9	5.1	Racine.....	1.6	1.9
Davenport.....	2.6	2.6				Wilkes-Barre...	6.0	7.3			
Peoria.....	1.6	1.7									
Rockford.....	4.3	2.9									

¹Insured jobless under State, Federal Employee, and Ex-Servicemen's unemployment insurance programs.

²For 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

Additional information concerning the preparation of the labor force, employment, hours and earnings, 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.

INTRODUCTION

The statistics in this periodical are compiled from three major sources: (1) household interviews, (2) payroll 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 payroll records are compiled each month from mail questionnaires by the Bureau of Labor Statistics, in cooperation with State agencies. The payroll survey provides detailed industry information on nonagricultural wage and salary employment, average weekly hours, average hourly and weekly earnings, and labor turnover for the Nation, States, and metropolitan areas. The figures 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.

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 payroll series

The household and payroll 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 non-agricultural 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.

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.

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 Re-

port 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.

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. The detailed questions for persons not in the labor force are asked only in those households that are new entrants to the sample and in those that are reentering the sample after 8 months' absence.

Occupation, industry, and class of worker for the employed apply to the job held in the survey week. Per-

sons 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.

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 non-economic reasons but 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 ac-

ording 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.

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 non-white) 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 migra-

tion 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 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

Table A. Average standard error of major employment status categories

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

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	...	...	...	...	...

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 ...	.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, and labor turnover in nonagricultural establishments, by industry and geographic location.

Federal-State Cooperation

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

State agencies mail the forms to the establishments and examine the returns for consistency, accuracy, and completeness. The States use the information to prepare

State and area series and then send the establishment data to the BLS 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 non-

agricultural 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 was revised in January 1969 to provide for the collection of job openings data as well.

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, 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 workers, 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 non-supervisory 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. 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 to Employment Series

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

ESTIMATING METHODS

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

The "Link Relative" Technique

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

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

Benchmark Adjustments

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

Nonagricultural payroll employment estimates, by industry division, 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 non-certainty 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 labor turnover statistics programs, with their emphasis on pro-

ducing 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. The table that follows 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.

Approximate size and coverage of BLS employment and payrolls sample, March 1969¹

Industry division	Number of establishments in sample	Employees	
		Number reported	Percent 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) ²	3,300	2,737,000	100
State and local	9,600	5,065,000	53

¹ 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.

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

The table below shows the approximate coverage, in terms of employment, of the labor turnover sample.

Approximate size and coverage of BLS labor turnover sample, March 1969

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

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 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 ratio 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 the following table.

Root-mean-square errors of differences between benchmarks and estimates	
Size of employment estimate	Root-mean-square error ¹
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

¹ 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. The table below presents root-mean-square-errors of the amounts of

Errors of preliminary employment estimates

Size of empl. 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 Nonag. empl.	88,000	80,000

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

revision 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 or 1 cent for hourly earnings.

STATISTICS FOR STATES AND AREAS

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

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

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 ADJUSTMENT

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

The seasonal adjustment 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 aggregated. 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.

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 and earnings 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 sections 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.

**Summary of Methods for Computing Industry Statistics
on Employment, Hours, Earnings, and Labor Turnover**

Item	Basic estimating cells (industry, region, size, or region/size cell)	Aggregate industry levels (divisions, groups and, where stratified, individual cells)
Monthly Data		
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 firms divided by total employment in those firms. The result is multiplied by 100.	Average, weighted by employment, of the rates for component cells.
Annual Average Data		
All employees 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.

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Bureau of Labor Statistics

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IX	ARIZONA - Unemployment Compensation Division, Employment Security Commission, Phoenix 85005
VI	ARKANSAS - Employment Security Division, Department of Labor, Little Rock 72203
IX	CALIFORNIA - Division of Labor Statistics and Research, Department of Industrial Relations, Human Relations Agency, San Francisco 94101 (Employment).
VIII	COLORADO - Department of Labor and Employment, Denver 80203
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III	DELAWARE - Employment Security Commission, Wilmington 19899
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II	NEW JERSEY - Division of Planning and Research, Department of Labor and Industry, Trenton 08625
VI	NEW MEXICO - Employment Security Commission, Albuquerque 87103
II	NEW YORK - Research and Statistics Office, Division of Employment, N.Y. State Department of Labor, State Campus Building 12, Albany 12201
IV	NORTH CAROLINA - Division of Statistics, Department of Labor, Raleigh 27602 (Employment). Bureau of Employment Security Research, Employment Security Commission, Raleigh 27602 (Turnover).
VIII	NORTH DAKOTA - Employment Security Bureau, Bismarck 58501
V	OHIO - Division of Research and Statistics, Bureau of Employment Services, 145 S. Front St., Columbus 43216
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