

Employment and Earnings

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In this issue:
Establishment data adjusted to new benchmarks





U.S. DEPARTMENT OF LABOR
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Calendar of Features

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

Household data

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

Establishment data

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

¹ The issue that introduces new benchmark varies. The October 1979 issue marks the introduction of March 1978 benchmarks.

² Revised data introduced October 1979.

Employment and Earnings

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Editors: Gloria P. Green, Rosalie K. Epstein

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Employment and Unemployment Developments, September 1979

Employment rose in September and unemployment declined. The Nation's overall unemployment rate was 5.8 percent, down slightly from 6.0 percent in August but little different from the rates which have prevailed over the past year.

Total employment—as measured by the monthly survey of households—advanced by 610,000 in September to 97.5 million. Over the past year, total employment grew by 2.5 million, with nearly three-fourths of the increase occurring in the 6 months from September to March.

Nonfarm payroll employment—as measured by the monthly survey of establishments—rose by 135,000 in September to 89.9 million. Payroll employment has advanced by 2.8 million over the year; 2 million of that increase occurred prior to April.

Unemployment

The September unemployment rate, 5.8 percent, and the number of unemployed persons, 6.0 million, edged down from the levels of the previous month. Since August 1978, the jobless rate has fluctuated within the range of 5.6 to 6.0 percent.

Virtually all of the over-the-month reduction in unemployment took place among adult women and, more specifically, married women, reversing the increases of the prior month. The rate for adult women was 5.5 percent in September, compared with 5.9 percent in August. The unemployment rate for part-time workers also dropped slightly. Little or no change occurred in September for most other worker categories including adult men, teenagers, and full-time workers. (See tables A-33 and A-36.)

The median duration of unemployment was up 1 week to 5.9 weeks in September, returning to about the July level. This movement reflected an over-the-month drop in short-term joblessness and an increase in those seeking jobs from 1 to 3 months. (See table A-37.)

Total employment and the labor force

Total employment rose by 610,000 in September, after registering a decline of about half that amount in August. The advance took place

primarily among teenagers and adult women. Teenage employment returned to the July level, following a dip of comparable magnitude in August; employment of adult women rose in both months.

Over the past year, employment has risen by 2.5 million. The bulk of this increase occurred during the first half of the 12-month period as employment has risen by 670,000 since March. Adult women accounted for most of the gains throughout the year.

The civilian labor force was 103.5 million in September, up 450,000 from August and 2.5 million higher than September a year ago. The overall civilian labor force participation rate was 63.9 percent in September, the same as the all-time high attained in February and March.

Discouraged workers

Discouraged workers are persons who report that they want work but are not looking for jobs because they believe they cannot find any. Because they do not meet the labor market test—that is, they are not engaged in active job search—they are classified as not in the labor force rather than unemployed. These data are published on a quarterly basis.

The number of discouraged workers declined by 90,000 in the third quarter to 740,000, returning to the first quarter level. Close to three-fourths of this number cited job-market factors as the reason for their discouragement. (See table A-53.)

Industry payroll employment

Nonfarm payroll employment rose 135,000 in September to 89.9 million, as job gains took place in 56 percent of the 172 industries comprising the BLS diffusion index. Payroll employment increased 2.8 million over the past year; 225,000 of these jobs were added during the third quarter of 1979 and 815,000 since March. (See tables B-4 and B-7.)

Most of the September employment gain occurred in the service-producing industries. The service industry accounted for most of the increase, adding almost 100,000 jobs. While employment in wholesale and retail trade rose

50,000, transportation and public utilities and State and local government had reductions of 20,000 and 25,000, respectively.

In the goods-producing sector, employment in mining continued its long-term advance, while construction edged down for the second straight month. Most of the specific industries in manufacturing showed little or no change.

Hours

The average workweek of production or non-supervisory workers on private nonagricultural payrolls was 35.6 hours in September, unchanged from the levels of the previous 3 months. Manufacturing hours edged down a tenth of an hour to 40.0, while factory overtime was unchanged at 3.2 hours. In contrast, the construction workweek rose 0.4 hour for the second straight month to 37.6 hours. (See table C-7.)

The index of aggregate weekly hours rose 0.3 percent in September as a result of the rise in payroll employment. The index was up 2.9 percent over the year, also due entirely to employment gains. (See table C-8.)

Hourly and weekly earnings

Average hourly earnings of production or non-supervisory workers on private nonfarm payrolls rose 0.5 percent in September (seasonally adjusted) to a level 8.1 percent higher than that of September 1978. Average weekly earnings also rose half a percent over the month and were up 7.5 percent from September 1978.

Before adjustment for seasonality, average hourly earnings rose 10 cents from August to \$6.29, 47 cents higher than September 1978. Average weekly earnings were \$222.50 in September, up \$1.07 from August and \$15.61 over the year (See tables C-1 and C-9.)

The Hourly Earnings Index

The Hourly Earnings Index—earnings adjusted for overtime in manufacturing, seasonality, and the effects of changes in the proportion of workers in high-wage and low-wage industries—was 233.7 (1967=100) in September, 0.7 percent higher than in August. The index was 7.9 percent above September a year ago. During the 12-month period ended in August, the Hourly Earnings Index in dollars of constant purchasing power decreased 3.5 percent. (See table C-9.)

BLS Establishment Estimates Revised to March 1978 Benchmark Levels

Maxine Both

This issue of *Employment and Earnings* introduces revised estimates for employment in nonagricultural establishments, reflecting the most recent and complete employment counts, called benchmarks. The benchmark month for the current revision is March 1978, and most employment series have been revised beginning with April 1977. Hours, earnings, and labor turnover estimates, which are weighted by employment, are also subject to revision as a result of shifts in employment levels. Coincident with the benchmark adjustment, all seasonally adjusted series have also been revised.

The benchmark review serves as a quality control process by providing both a more accurate measure of employment levels and a more accurate perspective on trends. Normally, new benchmarks are determined for March of each year at the most detailed industrial classification for which estimates are made. The difference between the benchmark for March and the corresponding estimate for March is assumed to have accumulated at a constant rate over the previous 12 months. Most series, therefore, are adjusted by applying a ratio to the estimates to wedge out the difference over the period from the new benchmark to the preceding one, 12 months earlier. The benchmark level is then projected forward to the current month based on the trend shown in monthly reports submitted by a sample of employers. The estimates adjusted to the new levels are then aggregated through successively larger groupings to total nonagricultural employment.

1978 employment estimates revised by 0.7 percent

The March 1978 total nonagricultural employment benchmark of 84.5 million was 0.6 million above the corresponding sample-based estimate—a difference of 0.7 percent or 14 percent of the year-to-year change (table 1). Adjustments for each of the major industry divisions

were 1 percent or less except for mining, construction, and services. During the 1970's, the employment estimates for the total nonagricultural sector and for the major industry divisions generally have varied from benchmarks by about 0.1 percent. The magnitude of the current revision exceeds the average for reasons to be discussed later in this article. Table 2 indicates the magnitude of the differences arising from the current and previous revisions, by year and industry division.

BLS monthly estimates of employment, hours, and earnings are published in considerable industry detail. Based upon the Standard Industrial Classification (SIC) system, estimates are prepared at the industry level (four-digit SIC) for manufacturing and at the industry group level (three-digit SIC) for most nonmanufacturing industries. Within the 3-digit industry groups (manufacturing and nonmanufacturing) for which employment estimates are published, 32 of the 255 groups were revised by 5 percent or more. The larger industries in terms of employment tended to have the smallest percentage revisions (table 3).

The March 1978 estimates and benchmark levels for the major industry groups (two-digit SIC) in manufacturing appear in table 4. Of the 20 major groups in this division, 13 were revised by 1 percent or less. Revisions were somewhat larger for the basic three- and four-digit industries, but almost three-fifths of these differed by less than 3 percent and only about one-sixth differed by 5 percent or more.

Why estimates differ from benchmarks

There are three basic reasons for the differences between benchmarks and estimates: (1) errors in adjustment for entry of new firms, (2) improvements in the quality of the benchmark data, and (3) errors in trend caused by nonrepre-

* Maxine Both is a labor economist in the Office of Employment Structure and Trends.

Table 1. Comparison of nonagricultural employment estimates with benchmarks, by industry division, March 1978

(Numbers in thousands)

Industry division	Estimate	Benchmark	Difference		Percent of year-to-year changes ¹
			Amount	Percent	
Total	83,897	84,455	558	0.7	14.1
Total private	68,171	68,729	558	.8	16.2
Mining	686	699	13	1.9	-12.3
Construction	3,675	3,733	58	1.6	19.1
Manufacturing	19,995	20,122	127	.6	14.6
Transportation and public utilities	4,759	4,804	45	.9	22.4
Trade	18,801	18,878	77	.4	7.8
Wholesale	4,815	4,852	37	.8	15.1
Retail	13,986	14,026	40	.3	5.4
Finance, insurance, and real estate	4,577	4,623	46	1.0	18.7
Services	15,678	15,870	192	1.2	20.5
Government	15,726	15,726	0	0	0
Federal	2,725	2,725	0	0	0
State and local	13,001	13,001 ²	0	0	0

¹ Expressed as percent of March 1977 to March 1978 change.

² Estimates of State and local government were not revised to new benchmarks.

Table 2. Percent differences between nonagricultural employment estimates and benchmarks by industry division, selected years, 1971-78

Industry division	March				
	1971	1973 ¹	1974	1977 ²	1978
Total	-0.2	1.6	0.1	0.1	0.7
Mining .....	.2	3.5	3.0	2.7	1.9
Construction	3.1	9.6	-.6	.6	1.6
Manufacturing	-.4	1.1	.1	-.4	.6
Transportation and public utilities	-.9	.7	(³)	-1.8	.9
Trade	-.3	2.2	-.1	-.5	.4
Finance, insurance, and real estate	-.2	.5	1.1	1.0	1.0
Services	-.4	.9	.7	.6	1.2
Government .....	.0	.5	-.5	.8	⁴ 0

¹ 1973 is a two-year revision.

² The comparison for the detailed industry divisions is between estimates on the 1967 SIC and the 1972 SIC.

³ Less than 0.05 percent.

⁴ Estimates of State and local government were not revised.

sentative samples. A fourth reason for differences, which affects individual industries but not the total, results from changes in industrial classification of individual establishments.

The primary reason for the large differences be-

tween March 1978 estimates and benchmarks was the failure of the method of adjustment used to take account of the entry of new firms. The BLS establishment survey uses the benchmark link-relative estimating technique, which is a form of ratio estimation. The employment estimates for a month are projected from the levels estimated for the previous month based on the change in employment levels indicated by the firms responding to the survey. It is difficult to include in a timely manner newly formed businesses as reporters in the establishment survey. This type of omission

Table 3. Distribution of published 3-digit SIC industries by size of industry and percent difference between employment estimates and benchmarks, March 1978

Percent difference	Total number of industries	Size of industry (number of employees)			
		Under 50,000	50,000 to 99,999	100,000 to 199,999	200,000 and over
Total	255	37	41	72	105
0-0.9	75	10	10	19	36
1.0-2.9	109	9	13	39	48
3.0-4.9	39	10	9	8	12
5.0 and over ...	32	8	9	6	9

Table 4. Comparison of manufacturing employment estimates with benchmarks, by major industry group, March 1978

(Numbers in thousands)

Industry group	Estimate	Benchmark	Difference	
			Amount	Percent
Manufacturing	19,995	20,122	127	0.6
Durable goods	11,913	11,992	79	.7
Lumber and wood products	727.5	729.2	1.7	.2
Furniture and fixtures	486.9	491.7	4.8	1.0
Stone, clay, and glass products	671.5	672.0	.5	.1
Primary metal industries	1,179.6	1,187.1	7.5	.6
Fabricated metal products	1,624.3	1,643.9	19.6	1.2
Machinery, except electrical	2,294.0	2,279.7	-14.3	-.6
Electric and electronic equipment	1,931.7	1,963.0	31.3	1.6
Transportation equipment	1,916.3	1,945.4	29.1	1.5
Instruments and related products	636.1	636.3	.2	(¹)
Miscellaneous manufacturing	444.9	443.6	-1.3	-.3
Nondurable goods	8,082	8,130	48	.6
Food and kindred products	1,644.0	1,668.2	24.2	1.5
Tobacco manufactures	70.6	67.3	-3.3	-4.9
Textile mill products	912.2	901.6	-10.6	-1.2
Apparel and other textile products	1,323.0	1,335.9	12.9	1.0
Paper and allied products	695.9	694.3	-1.6	-.2
Printing and publishing	1,167.3	1,178.5	11.2	1.0
Chemicals and allied products	1,077.1	1,085.0	7.9	.7
Petroleum and coal products	203.5	203.8	.3	.1
Rubber and miscellaneous plastics products	736.7	739.8	3.1	.4
Leather and leather products	251.6	255.9	4.3	1.7

¹ Less than 0.05 percent.

can be a source of large errors in the estimates in an industry that is characterized by the formation of numerous new firms during a period of expansion. On the other hand, business deaths are reflected in the sample when businesses discontinue operations and cease to report.

The BLS has developed bias adjustment factors which are applied to the employment estimates to correct for the undercount of business births. The bias adjustment factors, which vary by industry, are based on past experience and are reviewed and recalculated as part of the benchmarking process. Business formation rates change over time, especially during the business cycle, and thus correction for errors in estimates of business births contributes to the magnitude of the benchmark revision. Since the period March 1977 to March 1978 was characterized by an almost unprecedented employment expansion—65 percent larger than the expansions of either of the previous two years—the bias adjustment factors based on recent experience were insufficient.

Research is still underway to improve the

methods of calculating bias adjustment factors. Beginning with the March 1977 revision, the factors for the construction industry have been designed to vary with the business cycle as reflected by current independent sources of data.¹ Work is underway to develop cyclically dependent bias factors for other industries.

Revised bias adjustment factors are used beginning with April 1978 in the current revision. The effect of the new factors is noteworthy in several trade and service industries where the revised factors have a cumulative effect of adding more than 160,000 employees to the over-the-year (1978-79) change. Changes in adjustment factors also have an impact on selected industries in manufacturing and transportation and public utilities. The impact of these changes and the March 1978 correction in level is to add 938,000 workers to the June 1979 level of total nonagricultural pay-

¹ Independent sources include data on building permits, housing starts, new business formations, and money supply.

roll employment, the last final estimate published on the previous benchmark.

A second cause of differences arises from improvements in the quality of the benchmark source data. The expansion of unemployment insurance coverage to small firms in 1972, which eliminated the need to estimate the employment of many small establishments, was an example of this type of change. More recently, as of January 1978, UI coverage was expanded to include the following previously uncovered groups of employees: Most domestic workers, agricultural workers employed by large farms, employees of State and local governments, and, except for religious workers, the employees of small nonprofit organizations and private elementary and secondary schools. Although domestic and agricultural workers are not included in the payroll survey, their inclusion as covered employees in 1978 may have improved the reporting of some of the other employee groups. Other evidence suggests that some public service employees paid from Federal funds but employed by private industry may have been excluded from previous universe counts.

The third reason for differences between estimates and benchmarks is the presence of a certain amount of error in all sample-derived estimates. A complete monthly count of employment would reflect all changes, but complete coverage, involving 4 or 5 million reports each month, would be prohibitively expensive and time consuming. Derived from a sample of approximately 162,000 establishments, the BLS payroll series provide estimates at moderate cost within 3 weeks of the reference week. Annual benchmark revisions, which are an integral part of the BLS establishment survey program, remove the effect of these sampling errors from the estimates.

Fourth, an establishment is classified by industry according to its major activity, which is determined by the principal product produced or handled, or service rendered. An establishment may engage in more than one activity. If its output of products or services changes so that what was once a secondary product or activity becomes a primary one, the establishment is reclassified to the industry of its new major activity. These changes are introduced into the employment estimates at the time of the benchmark adjustment, based on annual product and activity reports. Thus, differences between estimates and benchmarks for a particular industry may result because the estimates are linked forward from former benchmark levels which do not reflect intervening classification changes for individual establishments.²

Benchmark source material

UI records are the primary sources of benchmark data. With the expansion of UI coverage in January 1978, approximately 98 percent of the total nonagricultural sector and 97 percent of the private nonagricultural sector are covered by various UI programs.

For the few remaining industries exempt from mandatory UI coverage, the Bureau of Labor Statistics used other sources for benchmark information. Data on employees covered under Social Security laws, published by the Bureau of the Census in *County Business Patterns*, were used to augment UI data for nonoffice insurance sales workers and workers in private educational services. Data for interstate railroads were obtained from the Interstate Commerce Commission; benchmarks for private elementary and secondary schools were derived from data obtained from the U.S. Office of Education and the National Catholic Welfare Association. Employment figures for religious organizations were obtained from data provided by the National Council of Churches and recent surveys of churches conducted by several State agencies. These sources have been used for benchmarking for a number of years.

Employment estimates for the Federal Government are derived from official summaries of Federal employment prepared by the Office of Personnel Management (OPM). These summaries are complete counts of Federal workers and are not subject to benchmark revisions.³ The official OPM summaries do not provide breakouts of Federal employment by industry, such as hospitals, on a current monthly basis. These are projected by BLS from a sample of Federal establishments.

In benchmarking the State and local government sector, the Bureau of Labor Statistics has for many years used the 5-year Censuses of Government and the Annual Surveys of Government conducted by the Bureau of the Census, because most States had not provided UI coverage to workers in these industries. In January 1978, UI coverage was extended to these workers. However, estimates of State and local government were not revised at this time because analysis of the first quarter 1978 UI data indicated significant problems in their use as benchmarks. Some

² The changes are wedged or tapered into the estimates over the year in which the change in primary activity took place.

³ Employment of the Central Intelligence Agency and the National Security Agency and employees of the Department of Defense paid from nonappropriated funds are not included in the OPM summaries or these estimates.

newly covered State and local government employees were not reported, and Kentucky and New Hampshire were unable to enact legislation to make coverage mandatory in the first quarter of 1978. In addition, about 200,000 public service employees throughout the Nation were not included in the first quarter of 1978 UI reports. The Bureau hopes to have improved data for succeeding quarters, at which time a revision of estimates of State and local government to new benchmarks will be carried out.

The Bureau's reporting sample is also an important source of benchmark information. Since sample reports are current and are reviewed monthly, reporting errors, detected and corrected in the sample reports, can also be corrected in the corresponding benchmark reports. The industry classification of each sample establishment is reviewed annually on the basis of information supplied by the employer. Changes in industry classification of sample reports often precede such changes in other sources of information. Insofar as sample reports were known to differ from the corresponding employer's reports included in other benchmark source material, the data in the other sources were modified accordingly.

Relation of employment benchmarks to other series

Benchmarks are not available for the employment of women and production or nonsupervisory worker series. These series are produced by applying an estimated ratio of these workers to the estimated all-employee figures. The ratios are derived monthly from the BLS reporting sample. Benchmarks are not available for the hours and earnings and labor turnover series, and they too reflect only the reporting sample. For primary estimating cells, i.e. region and/or size strata within the most detailed industry classifications, the women-worker/all-employee ratio, the production-worker/all-employee ratio, average weekly hours, average hourly earnings, and labor turnover rates are computed directly from reported figures. Series for broader industry groupings, however, require a weighting mechanism to yield meaningful averages. The employment estimates for the primary cells are used as weights for the employment of women, labor turnover rates, and production or nonsupervisory worker employment estimates for broader industry groupings. The production or nonsupervisory worker employment estimates for the primary cells are used as weights for the hours and earnings estimates for the broader industry groupings.

Adjustment of the all-employee estimates to new benchmarks may result in reallocation of

weights, which, in turn, may change the labor turnover, employment of women, and the production or nonsupervisory worker employment, hours, and earnings estimates. For the employment estimates—women and production or nonsupervisory workers—the revisions at the estimating cell level are added to become the summary level revision. To influence the hours, earnings, and labor turnover averages of a broad group, employment changes have to be relatively large and must affect industries which have substantially higher or lower averages than the other industries in their group. Generally speaking, new benchmarks do not change hours and earnings and labor turnover series for broader groupings by more than 0.1 hour, 1 cent, or 0.1 per 100 employees, respectively. The changes in the hours, earnings, and labor turnover estimates are shown in table 5.

Revision of seasonally adjusted data

The seasonal adjustment programs used to adjust establishment-based series incorporate an adaptation of the standard ratio-to-moving-average method. They provide for "moving" adjustment factors to take account of changing seasonal patterns. Each year of data added to a series will change the previous few years' factors slightly, even when the unadjusted figures for those years remain the same.

The BLS Seasonal Factor Method, which is used presently to seasonally adjust the employment, hours, and earnings series, was designed for time series with steady or slowly changing seasonal patterns. Some series are not adequately adjusted by this method. For example, the retail trade employment series, which is affected by abrupt shifts in employment at the Christmas season, and which is also affected significantly by the shifting date of Easter, is subjected to special seasonal adjustment procedures. The BLS also takes into account, in seasonally adjusting the employment series for the transportation equipment industry, the shifting dates of automobile plant retooling during the summer months. The Federal Government series is adjusted to remove the effect of the temporary hiring of postal workers at Christmas time and of Decennial Census of Population enumerators. Special adjustments have been used for a number of years in seasonally adjusting these series.

Seasonal factors in labor turnover reflect the variation in the number of times a day of the week (Monday, for example) falls in a particular month. To eliminate this calendar irregularity, the Bureau uses "trading day" factors. The Census X-11 Method with the "trading day" option is used in adjusting the labor turnover series; the BLS

Table 5. Comparison of hours, earnings, and labor turnover estimates based on previous (1977) benchmarks with estimates revised to March 1978 benchmarks, by industry division and selected major industry group, March 1978

Industry division and group	Average weekly hours			Average hourly earnings			Labor turnover accession rates (per 100 employees)		
	Previous estimate	Revised estimate	Difference	Previous estimate	Revised estimate	Difference	Previous estimate	Revised estimate	Difference
Total private	35.8	35.8	0	\$5.52	\$5.53	\$0.01	—	—	—
Mining	43.4	43.4	0	6.95	6.94	-.01	—	—	—
Construction	36.3	36.2	-.1	8.40	8.40	0	—	—	—
Manufacturing	40.4	40.4	0	6.00	6.01	.01	3.7	3.8	0.1
Durable goods	41.1	41.1	0	6.40	6.40	0	3.5	3.6	.1
Lumber and wood products	39.5	39.5	0	5.40	5.39	-.01	6.4	6.5	.1
Furniture and fixtures	39.7	39.7	0	4.56	4.56	0	5.2	5.3	.1
Stone, clay, and glass products	41.3	41.3	0	6.08	6.08	0	4.8	4.8	0
Primary metal industries	41.5	41.5	0	7.94	7.94	0	2.6	2.6	0
Fabricated metal products	41.1	41.1	0	6.19	6.20	.01	3.7	3.7	0
Machinery, except electrical	42.3	42.3	0	6.61	6.62	.01	2.6	2.7	.1
Electric and electronic equipment	40.4	40.4	0	5.68	5.67	-.01	3.1	3.2	.1
Transportation equipment	41.9	42.0	.1	7.69	7.69	0	3.4	3.4	0
Instruments and related products	41.2	41.2	0	5.60	5.60	0	2.7	2.7	0
Miscellaneous manufacturing	39.0	39.0	0	4.60	4.60	0	5.4	5.4	0
Nondurable goods	39.4	39.4	0	5.39	5.40	.01	4.0	4.1	.1
Food and kindred products	39.5	39.4	-.1	5.69	5.69	0	4.9	5.0	.1
Tobacco manufactures	38.5	38.3	-.2	6.30	6.19	-.11	1.4	1.5	.1
Textile mill products	40.6	40.6	0	4.17	4.17	0	4.2	4.2	0
Apparel and other textile products	35.9	35.9	0	3.89	3.89	0	5.5	5.5	0
Paper and allied products	43.1	43.1	0	6.32	6.32	0	2.7	2.7	0
Printing and publishing	37.9	37.9	0	6.37	6.39	.02	3.5	3.5	0
Chemicals and allied products	42.0	42.0	0	6.83	6.84	.01	1.8	1.8	0
Petroleum and coal products	43.0	43.0	0	8.50	8.53	.03	2.3	2.3	0
Rubber and miscellaneous plastics products	40.7	40.7	0	5.32	5.33	.01	4.6	4.6	0
Leather and leather products	36.8	36.8	0	3.86	3.86	0	6.7	6.7	0
Transportation and public utilities	40.1	40.2	.1	7.34	7.35	.01	—	—	—
Trade	32.7	32.7	0	4.56	4.56	0	—	—	—
Finance, insurance, and real estate	36.3	36.3	0	4.76	4.76	0	—	—	—
Services	32.8	32.8	0	4.91	4.91	0	—	—	—

Seasonal Factor Method does not include this option.

Publication of revised historical data

Revised historical data (both seasonally adjusted and unadjusted) for detailed industry categories of employment, hours and earnings, and labor turnover will be presented in a supplement to *Employment and Earnings* (to be issued in early November) for the periods January 1974 through June 1979 (seasonally adjusted data) and for April 1977 through June 1979 (unadjusted data). Data for earlier time periods can be found in *Employment and Earnings, United States, 1909-78* (BLS Bulletin 1312-11), issued in 1979.

Monthly employment estimates are published

for most of the significant industries in the non-agricultural sector. Those industries for which monthly data are not published either are too small or are not represented by a sufficient sample. However, the March benchmark figures for a number of such industries are published in table 6. The expansion in UI coverage makes it possible to obtain accurate employment counts for all months (and quarterly wages) for the other industries not published as a regular feature of the Current Employment Statistics Program.

Seasonal adjustment factors are recalculated annually and updated factors are published in conjunction with the benchmark revisions. The seasonal factors that will be used for the period July 1979 through June 1980 for all establishment series are shown in tables 7 through 13.

Table 6. Employment benchmarks for industries not published monthly, March, 1972-78

(In thousands)

Industry title	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978
Total.....	-	72,138	75,422	77,362	75,686	78,092	80,493	84,455
Total private.....	-	58,717	61,568	63,089	60,789	62,967	65,294	68,729
Goods-producing.....	-	22,905	24,174	24,570	21,951	22,728	23,488	24,554
Mining.....	10-14	618	620	665	730	761	805	699
Lead and zinc ores.....	103	7.3	7.0	7.4	8.1	8.0	7.8	7.3
Other metal ores.....	104-6,8,9	16.9	15.3	18.9	21.7	23.9	27.3	31.4
Anthracite mining.....	11	4.0	3.9	3.7	3.6	3.6	3.3	3.1
Crude petroleum and natural gas.....	131	139.9	135.0	135.6	146.4	154.1	159.3	173.5
Natural gas liquids.....	132	3.7	3.6	3.8	4.1	4.0	4.2	4.2
Nonmetallic minerals, exc. fuels,nec.....	141,5,8,9	17.4	17.3	18.6	18.5	18.1	18.1	19.0
Construction.....	15-17	3,553	3,718	3,878	3,235	3,276	3,430	3,733
Concrete work.....	177	89.4	99.4	111.8	72.3	80.1	87.3	96.4
Water well drilling.....	178	14.1	14.7	16.0	15.4	16.2	19.0	19.7
Misc. special trade contractors.....	179	272.4	300.8	315.3	277.8	275.2	287.4	307.3
Manufacturing.....	20-39	18,734	19,836	0,027	18,000	18,691	19,253	20,122
Durable goods.....	24,25,32-39	10,773	11,664	1,876	10,634	10,861	11,322	11,992
Special product sawmills, nec.....	2429	6.1	6.6	7.3	6.0	6.3	6.8	7.0
Structural wood members, nec.....	2439	10.9	11.7	11.3	8.3	9.7	12.1	15.1
Nailed and lock corner wood boxes and shooks.....	2441	12.0	12.5	12.8	9.7	10.2	10.0	9.0
Wood pallets and skids.....	2448	17.9	19.1	22.1	16.8	18.9	20.7	22.6
Wood containers, nec.....	2449	14.8	14.7	13.8	10.9	11.1	10.7	10.9
Prefabricated wood buildings and components.....	2452	27.4	27.2	22.7	17.6	19.6	21.3	25.1
Wood preserving.....	2491	12.5	12.8	13.3	12.9	11.8	12.5	13.0
Particleboard and wood products,nec.....	2492,9	63.9	69.5	70.2	55.8	62.7	64.6	69.1
Wood TV, radio, phonograph, and household furniture.....	2517,9	18.1	19.0	19.1	14.2	14.0	14.8	16.8
Wood office furniture.....	2521	12.1	12.8	13.5	11.3	11.7	14.0	16.2
Metal office furniture.....	2522	28.4	30.0	32.5	27.3	25.1	26.7	29.7
Wood partitions and fixtures.....	2541	29.0	31.8	31.5	25.9	28.0	29.8	32.1
Metal partitions and fixtures.....	2542	24.6	26.9	27.2	24.1	24.1	26.5	28.2
Drapery hardware & blinds & shades..	2591	13.8	14.7	15.3	12.2	13.1	14.2	16.0
Furniture and fixtures, nec.....	2599	10.2	10.9	10.3	9.9	9.3	10.2	11.1
Brick and structural clay tile.....	3251	24.9	26.1	25.6	18.0	20.0	20.1	21.6
Clay refractories.....	3255	12.3	13.2	13.8	13.4	11.7	13.0	12.9
Other structural clay products.....	3253,9	18.4	18.0	18.8	14.8	14.4	14.3	14.8
Vitreous plumbing fixtures.....	3261	10.3	11.0	11.5	8.6	9.8	10.2	11.3
Vitreous china and earthenware food utensils.....	3262,3	10.1	11.0	9.8	9.7	9.8	8.9	9.5
Porcelain electrical supplies.....	3264	10.8	11.9	12.6	11.3	10.2	10.7	10.8
Pottery products, nec.....	3269	11.7	12.4	13.5	13.3	14.8	14.9	14.6
Lime and gypsum products.....	3274,5	21.7	22.2	22.1	19.8	19.8	19.7	21.0
Cut stone and stone products.....	328	13.4	13.8	13.4	12.3	11.9	12.1	11.9
Gaskets, packing and sealing devices	3293	23.6	27.4	30.0	22.7	24.6	25.9	27.9
Minerals, ground or treated.....	3295	13.2	13.6	15.0	14.6	13.9	14.8	14.7
Nonclay refractories and non- metallic mineral products, nec.....	3297,9	14.7	16.6	17.6	15.8	16.3	15.4	17.5
Electrometallurgical products.....	3313	14.6	15.5	15.9	15.7	13.5	14.8	14.1
Steel wire and related products.....	3315	20.9	21.9	22.8	20.3	20.7	20.8	23.1
Cold finishing of steel shapes.....	3316	16.6	18.5	19.4	17.0	16.5	17.8	19.8
Steel investment foundries.....	3324	8.7	10.1	9.7	8.3	8.5	9.7	11.9
Primary copper.....	3331	17.6	17.7	17.2	17.4	15.3	15.7	15.7
Primary lead and zinc.....	3332,3	9.0	9.2	9.5	9.8	9.4	9.2	9.4
Primary nonferrous metals, nec.....	3339	8.3	8.3	10.2	10.5	10.8	10.0	10.1
Secondary nonferrous metals.....	334	17.5	17.8	20.4	18.9	19.3	20.6	21.6
Aluminum extruded products.....	3354	30.2	31.3	32.4	24.2	25.5	30.3	33.9
Aluminum and nonferrous rolling and drawing, nec.....	3355,6	22.1	23.4	25.6	22.3	21.5	22.9	23.6
Brass, bronze, and copper foundries.	3362	17.2	19.5	20.7	18.6	17.9	18.7	19.2
Nonferrous foundries, nec.....	3369	18.9	21.5	19.1	15.1	18.2	20.3	20.3
Misc. primary metal products.....	339	17.7	19.1	20.6	18.6	18.8	20.9	23.0
Metal heat treating.....	3398	9.9	10.4	10.8	10.5	10.4	11.3	12.9
Primary metal products, nec.....	3399	7.8	8.7	9.8	8.1	8.4	9.6	10.1
Metal barrels, drums, and pails.....	3412	12.9	12.7	13.2	11.8	12.5	13.1	13.3
Cutlery.....	3421	13.9	14.5	15.2	14.7	14.9	15.3	16.0

See footnotes at end of table.

Table 6. Employment benchmarks for industries not published monthly, March, 1972-78—Continued

(In thousands)

Industry title	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978
Metal sanitary ware.....	3431	12.5	13.2	12.8	8.8	9.9	10.5	11.2
Prefabricated metal buildings.....	3448	16.1	20.4	24.4	17.7	19.8	20.1	25.4
Misc. metal work.....	3449	8.4	9.6	12.2	10.4	8.9	8.6	10.3
Nonferrous forgings and crowns and closures.....	3463,6	9.3	9.8	10.3	10.3	10.0	11.3	10.9
Steel springs, except wire.....	3493	7.9	8.1	8.2	7.0	8.2	8.5	8.4
Wire springs.....	3495	14.7	15.9	16.4	12.8	13.4	15.0	16.1
Fabricated pipe and fittings.....	3498	22.9	23.3	23.4	24.1	24.7	24.4	26.0
Metal foil and leaf, and fabricated pipe fittings.....	3497,9	45.3	48.1	49.1	40.8	44.3	46.9	49.0
Lawn and garden equipment.....	3524	16.6	19.5	19.7	18.8	18.0	18.8	20.7
Elevators and moving stairways.....	3534	16.6	16.7	16.3	14.1	11.7	11.4	11.9
Hoists, cranes, and monorails.....	3536	16.6	18.0	19.6	19.7	19.3	20.0	16.9
Rolling mill machinery.....	3547	11.4	11.9	13.5	14.3	12.8	10.4	10.2
Metalworking machinery, nec.....	3549	13.1	13.1	13.7	12.9	11.5	12.4	13.1
Woodworking machinery.....	3553	10.3	12.1	13.4	11.2	10.7	11.2	12.4
Paper industries machinery.....	3554	14.3	16.2	18.4	19.0	17.9	18.2	18.0
Special industry machinery, nec.....	3559	48.5	53.0	58.2	56.2	52.5	54.1	57.0
Industrial patterns.....	3565	9.4	10.3	10.7	9.6	9.4	10.0	10.4
Industrial furnaces and ovens.....	3567	16.9	18.9	20.5	18.4	17.5	18.0	19.5
General industrial machinery, nec...	3569	39.7	42.1	45.2	43.8	42.9	41.9	44.2
Office machines, scales and balances, exc. laboratory.....	3576,9	31.7	32.0	35.0	31.8	30.7	35.1	35.2
Automatic merchandising machines....	3581	10.2	10.9	12.8	7.1	7.8	7.7	9.8
Commercial laundry equipment.....	3582	6.2	6.4	6.2	5.4	5.6	5.8	6.0
Measuring and dispensing pumps and service ind. mach., nec.....	3586,9	35.8	37.5	38.7	37.3	37.0	37.1	38.1
Welding apparatus, electric.....	3623	14.1	15.7	17.0	17.2	15.6	16.7	18.3
Carbon and graphite products.....	3624	12.7	13.6	14.4	13.4	12.6	13.4	13.1
Electrical industrial apparatus, nec	3629	11.0	12.7	14.1	11.2	10.7	11.8	13.8
Household cooking equipment.....	3631	22.4	25.2	20.9	16.4	21.9	24.3	25.6
Other household appliances.....	3635,6,9	34.4	38.1	39.3	29.6	33.5	33.0	37.3
Commercial lighting fixtures.....	3646	16.3	17.4	18.3	14.2	13.4	14.6	15.3
Veicular & lighting equipment, nec.	3647,8	20.1	21.2	21.5	19.3	23.0	22.7	25.3
Phonograph records.....	3652	23.9	25.3	24.0	20.5	24.2	24.0	27.1
Electronic capacitors.....	3675	18.9	22.2	25.0	15.7	18.6	20.3	23.6
Electronic resistors and connectors.	3676,8	10.0	12.0	17.1	13.6	12.9	15.9	19.0
Electronic coils and transformers...	3677	15.5	18.8	20.7	15.1	17.2	20.2	22.4
Primary batteries, dry and wet.....	3692	11.0	12.1	13.7	11.1	12.8	14.7	16.2
X-ray apparatus and tubes.....	3693	11.6	13.3	15.0	17.0	17.9	18.3	22.7
Other misc. electrical equipment....	3699	13.9	14.1	13.8	10.7	11.2	14.9	16.2
Motorcycles, bicycles, and parts.....	375	17.5	19.7	20.5	13.9	17.1	17.3	19.1
Space propulsion units and other space vehicle equipment.....	3764,9	17.0	15.9	14.1	13.8	14.6	18.0	18.4
Other transportation equipment.....	3795,9	15.1	16.9	15.7	16.2	17.4	19.1	20.9
Fluid meters and counting devices...	3824	13.6	13.9	15.2	13.5	13.3	14.3	14.6
Measuring and controlling devices, nec.....	3829	17.1	17.7	18.5	17.7	17.5	19.1	21.2
Dental equipment and supplies.....	3843	11.9	12.7	14.5	14.9	15.4	16.9	16.9
Silverware and plated ware.....	3914	10.9	11.9	12.7	11.2	11.6	11.6	11.7
Jewelers' materials and lapidary work.....	3915	7.1	8.0	8.1	8.0	9.3	9.0	9.6
Pens and mechanical pencils.....	3951	10.7	11.7	12.3	9.9	11.3	11.2	12.2
Lead pencils and art goods.....	3952	8.5	8.6	9.1	8.3	9.0	8.9	9.6
Marking devices, carbon paper and inked ribbons.....	3953,5	13.4	14.1	14.2	12.9	13.8	14.2	14.8
Artificial flowers and buttons.....	3962,3	10.5	11.1	10.4	8.9	9.9	8.9	8.9
Needles, pins, and fasteners.....	3964	21.6	21.7	20.2	16.4	17.5	19.6	19.4
Brooms and brushes.....	3991	16.9	18.3	17.4	15.2	17.3	18.1	17.8
Burial caskets.....	3995	14.9	14.9	14.5	13.6	12.8	12.5	12.7
Manufacturing industries, nec.....	3996,9	58.8	62.1	62.6	55.4	58.1	59.9	63.0
Nonurable goods.....	20-23,26-31	7,961	8,172	8,151	7,366	7,830	7,931	8,130
Poultry and egg processing.....	2017	13.2	13.5	14.9	12.8	14.5	13.6	12.9
Creamery butter and condensed and evaporated milk.....	2021,3	18.3	17.4	17.6	17.7	16.4	15.4	14.9

See footnotes at end of table.

Table 6. Employment benchmarks for industries not published monthly, March, 1972-78—Continued

(In thousands)

Industry title	1972 SIC CODE	March, ¹ 1972	March 1973	March, ¹ 1974	March 1975	March 1976	March 1977	March 1978
Ice cream and frozen desserts.....	2024	20.5	21.3	19.6	19.4	18.8	19.4	18.2
Dehydrated fruits, soups, and vegetables.....	2034	15.1	13.8	15.4	14.4	16.3	16.8	16.6
Pickles, sauces, and salad dressings	2035	22.4	21.5	23.1	21.0	23.8	23.0	24.3
Frozen specialties.....	2038	24.2	26.6	27.1	23.6	27.1	29.3	31.9
Cereal breakfast foods.....	2043	13.6	14.9	15.8	16.1	16.1	16.8	16.4
Wet corn milling.....	2046	16.2	14.4	14.2	13.5	12.3	13.3	13.0
Dog, cat, and other pet food.....	2047	13.6	14.6	16.1	16.9	17.7	16.6	17.8
Rice milling and blended and prepared flour.....	2044,5	10.2	10.7	11.7	11.9	11.6	12.3	12.6
Chocolate and cocoa products and chewing gum.....	2066,7	20.9	19.9	19.4	16.9	19.4	20.0	18.9
Oil mills.....	2074,5,6	16.0	16.7	17.7	17.3	17.5	16.2	18.5
Animal and marine fats and oils.....	2077	11.4	11.4	11.6	11.4	10.8	12.5	11.1
Shortening and cooking oils.....	2079	11.4	11.4	12.3	12.7	13.5	12.9	13.3
Malt and other flavoring extracts and syrups.....	2083,7	12.2	12.9	13.4	13.3	13.2	13.2	14.2
Wines, brandy, and brandy spirits...	2084	9.7	10.6	11.5	12.6	11.5	11.1	12.9
Distilled liquor, exc. brandy.....	2085	22.1	20.7	19.8	19.0	19.3	18.5	18.5
Canned and cured seafoods.....	2091	17.1	15.9	18.0	16.4	16.7	17.7	18.5
Fresh or frozen packaged fish.....	2092	29.2	27.8	27.5	24.5	26.8	28.6	30.8
Roasted coffee.....	2095	14.6	14.6	15.3	14.1	14.2	13.8	13.7
Misc. food preparation.....	2097-9	86.4	87.4	88.1	83.6	87.4	92.1	96.8
Cigars.....	212	15.2	14.7	14.5	12.4	10.4	9.4	9.1
Other tobacco manufactures.....	213,4	15.0	14.3	13.3	14.1	12.7	13.7	14.3
Knit fabric and knitting mills, nec.	2258,9	28.9	29.0	30.0	25.9	26.7	24.7	25.1
Finishing plants, nec.....	2269	19.0	20.0	20.3	15.6	18.4	17.3	16.4
Wool yarn mills.....	2283	15.8	17.6	14.7	10.2	10.9	11.7	10.9
Thread mills.....	2284	11.7	12.5	11.9	8.3	10.9	11.0	10.9
Coated fabrics, not rubberized.....	2295	13.1	13.7	13.0	10.8	12.8	12.7	12.0
Tire cord and fabric.....	2296	11.6	12.1	12.8	10.9	11.8	12.0	11.0
Cordage and twine.....	2298	11.1	11.1	11.8	9.9	10.0	10.7	10.5
Other textile goods.....	2291-4,7,9	36.0	37.1	37.9	31.7	35.9	34.6	36.6
Men's and boys' underwear.....	2322	20.5	19.9	19.0	13.9	15.7	15.9	16.5
Men's and boys' neckwear.....	2323	10.1	10.3	9.2	6.5	7.5	6.7	7.2
Men's and boys' clothing, nec.....	2329	56.1	59.1	57.4	49.2	55.6	57.7	60.7
Hats, caps, and millinery.....	2351,2	14.2	15.6	15.1	15.2	15.7	15.4	15.6
Children's coats and suits.....	2363	8.7	9.8	8.8	7.5	8.8	8.1	8.2
Children's outerwear, nec.....	2369	27.2	36.3	34.3	30.6	34.6	34.0	33.9
Fur goods.....	237	4.7	4.3	3.5	3.6	4.0	4.0	4.2
Fabric dress and work gloves.....	2381	13.5	15.4	16.6	12.5	12.3	13.9	14.5
Robes and dressing gowns.....	2384	12.4	12.5	12.4	9.2	11.1	11.3	11.7
Waterproof outer garments.....	2385	18.1	17.9	16.1	14.0	14.5	13.6	13.1
Apparel and accessories, nec.....	2386,7,9	20.8	21.4	20.4	19.9	22.5	21.6	21.8
Textile bags.....	2393	7.7	8.0	8.7	7.4	8.1	8.5	9.3
Canvas and related products.....	2394	14.1	15.3	15.1	13.0	13.3	13.4	13.9
Pleating and stitching.....	2395	17.6	16.9	16.4	13.5	15.2	15.0	17.2
Other fabricated textile products...	2397,9	24.2	34.7	30.7	24.4	30.0	29.9	29.7
Pulp mills.....	261	13.4	13.9	14.3	14.1	15.6	16.8	17.3
Building paper and board mills.....	266	13.4	14.0	13.9	11.2	11.8	12.1	13.5
Die-cut paper and board.....	2645	16.7	18.5	18.5	16.0	16.9	17.2	17.4
Sanitary paper products.....	2647	15.4	16.5	16.3	15.3	19.3	22.3	25.5
Other converted paper products.....	2646,8,9	40.8	42.0	45.2	38.6	41.2	42.6	44.9
Set-up paperboard boxes.....	2652	16.3	16.1	15.8	12.1	13.6	13.3	13.0
Fiber cans, drums, and similar products.....	2655	18.1	20.7	21.6	18.0	19.0	18.5	19.0
Engraving and plate printing.....	2753	12.3	12.8	12.7	11.1	11.6	11.6	11.2
Commercial printing, gravure.....	2754	9.0	9.3	8.4	7.8	7.8	10.0	12.0
Greeting card publishing.....	277	21.2	22.9	22.5	21.9	20.0	21.0	22.0
Blankbooks and looseleaf binders...	2782	30.9	32.9	34.1	31.8	32.0	33.5	35.9
Bookbinding and related work.....	2789	25.9	26.0	24.9	23.1	23.0	22.8	24.0
Typesetting.....	2791	24.2	24.5	23.9	23.4	22.9	23.8	24.8
Other publishing and printing.....	2793-5	17.5	17.3	16.7	15.6	15.1	15.0	15.4
Alkalies and chlorine.....	2812	24.0	23.6	22.8	23.2	21.8	21.9	23.6
Industrial gases.....	2813	15.4	16.1	16.9	17.1	17.6	21.3	21.0

See footnotes at end of table.

Table 6. Employment benchmarks for industries not published monthly, March, 1972-78—Continued

(In thousands)

Industry title	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978
Inorganic pigments.....	2816	11.4	12.2	13.6	12.7	12.6	12.8	12.6
Synthetic rubber.....	2822	16.4	17.1	16.7	14.5	13.4	13.9	14.1
Cellulosic man-made fibers.....	2823	38.7	39.8	38.3	25.2	24.9	21.0	20.9
Biological products.....	2831	17.9	18.3	19.3	18.7	19.6	19.9	20.7
Medicinals and botanicals.....	2833	14.8	14.8	14.7	15.0	14.2	15.9	16.0
Nitrogenous fertilizers.....	2873	11.0	11.3	11.2	12.0	14.0	16.7	14.5
Phosphatic fertilizers.....	2874	15.6	15.8	15.7	16.8	16.2	15.6	15.0
Fertilizers, mixing only.....	2875	13.8	15.4	16.0	16.0	15.3	15.7	14.4
Agricultural chemicals, nec.....	2879	18.3	19.0	21.1	23.3	23.9	23.0	24.5
Adhesives and sealants.....	2891	13.8	14.2	15.5	14.8	15.5	16.6	18.0
Explosives.....	2892	23.2	23.2	22.4	19.7	13.6	13.7	13.1
Printing ink.....	2893	11.3	11.1	12.4	12.3	10.6	11.3	12.1
Other chemical preparations.....	2895,9	40.9	39.9	40.6	37.4	40.5	42.8	45.3
Paving mixtures and blocks.....	2951	10.9	10.6	10.9	10.0	10.1	10.1	9.7
Asphalt felts and coatings.....	2952	18.5	20.0	19.4	17.0	18.6	18.7	19.6
Misc. petroleum and coal products....	299	11.3	10.9	11.5	11.2	11.1	11.0	10.9
Fabricated rubber products.....	303,4,6	133.1	145.3	144.2	120.6	126.5	133.7	138.8
Boot and shoe cut stock and findings.	313	13.2	12.4	11.4	8.6	10.3	10.1	11.4
House slippers.....	3142	10.6	11.5	11.4	9.0	8.2	8.3	8.3
Footwear, except rubber, nec.....	3149	35.1	25.5	25.5	22.7	23.1	21.6	23.3
Women's handbags and purses.....	3171	20.3	21.5	20.9	17.0	20.4	19.8	18.6
Personal leather goods, nec.....	3172	12.4	12.6	12.8	10.8	14.0	13.9	14.3
Other leather products, nec.....	315,9	13.5	13.6	14.5	12.2	13.6	14.3	14.5
Service-producing.....	-	49,233	51,248	52,792	53,721	55,364	57,005	59,901
Transportation and public utilities....	40-49	4,485	4,579	4,684	4,513	4,506	4,603	4,804
Transportation	40-42, 44-47	2,631.3	2,700.8	2,754.2	2,610.2	2,617.3	2,696.8	2,828.6
Other railroads and switching and terminal companies.....	4012	56.0	54.8	46.2	53.2	43.0	43.8	48.0
Other passenger transit services.....	414,7	9.3	10.1	10.7	11.1	11.1	12.3	13.1
Trucking, local and long distance....	421	998.8	1057.0	1092.7	982.1	1023.0	1,071.3	1164.8
Trucking terminal facilities.....	423	4.5	4.6	5.0	4.5	4.6	5.0	5.2
Deep sea transportation.....	441,2	54.7	50.1	47.1	45.1	42.7	42.9	42.7
Water transportation services.....	446	116.0	112.4	112.4	108.3	107.4	103.8	117.3
Other water transportation.....	443-5	35.3	33.5	37.3	39.3	36.8	39.7	41.8
Air transportation services.....	458	32.0	34.5	34.4	36.7	36.8	39.2	41.0
Freight forwarding.....	471	34.0	34.1	36.4	36.8	36.6	40.2	43.3
Arrangement of transportation.....	472	64.2	66.1	70.8	74.1	80.5	90.6	102.6
Other transportation services.....	474,8	20.3	20.8	22.4	21.2	19.6	20.2	21.3
Telegraph communication.....	482	24.2	22.6	20.3	19.0	17.8	18.0	18.2
Communication services, nec.....	489	28.4	31.3	31.7	34.3	37.5	40.4	44.1
Water supply.....	494	17.1	18.1	18.3	18.4	18.5	19.0	19.4
Steam supply and irrigation systems..	496,7	2.3	2.4	2.6	2.6	3.0	3.3	3.2
Wholesale and retail trade.....	50-59	15,495	16,176	16,537	16,571	17,245	17,891	18,878
Wholesale trade.....	50-51	4,048	4,205	4,374	4,354	4,480	4,607	4,852
Farm-product raw materials.....	515	134.3	135.4	134.5	131.3	136.2	142.2	143.9
Retail trade.....	52-59	11,447	11,971	12,163	12,217	12,765	13,284	14,026
Paint, glass, and wallpaper stores...	523	48.1	49.4	50.2	51.3	53.2	55.7	58.0
Retail nurseries and garden stores...	526	33.7	36.2	44.6	41.5	45.7	47.0	48.5
Mobile home dealers.....	527	35.2	39.0	36.0	28.6	27.0	27.0	29.6
Other food stores.....	543-5,9	74.5	80.1	85.8	89.6	93.0	95.2	103.8
New and used car dealers.....	551	762.6	797.1	748.0	715.3	759.2	790.8	828.9
Used car dealers.....	552	38.6	43.8	42.6	40.6	45.0	45.9	47.1
Other automotive dealers.....	555-7,9	67.7	72.0	72.4	67.1	73.0	76.4	81.9
Women's accessory and specialty stores.....	563	26.5	28.0	25.6	25.4	25.0	23.6	22.8
Children's and infants' wear stores..	564	21.1	20.8	20.6	21.4	22.3	23.7	24.7
Furriers and other misc. apparel and accessories.....	568,9	29.7	29.4	30.7	30.7	32.9	34.4	37.0
Used merchandise stores.....	593	35.2	36.8	38.7	42.2	45.8	48.4	51.1
Finance, insurance, and real estate....	60-67	3,841	3,989	4,107	4,117	4,204	4,377	4,623

See footnotes at end of table.

Table 6. Employment benchmarks for industries not published monthly, March, 1972-78—Continued

(In thousands)

Industry title	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978
Mutual savings banks.....	603	40.4	43.7	46.9	49.1	53.0	58.1	62.8
Other related banking functions.....	601,4,5	45.5	48.2	52.4	56.0	56.2	57.2	59.2
Business credit institutions.....	615	22.0	23.3	24.2	24.2	23.6	22.7	23.4
Mortgage bankers and brokers.....	616	40.3	43.9	44.3	41.3	43.7	48.1	56.0
Credit agencies other than banks, nec Other security, commodity brokers and services.....	611,3	13.0	13.8	14.3	15.2	15.8	15.6	16.4
Other insurance carriers.....	622,3,8	28.0	28.4	27.8	28.1	28.9	32.4	35.5
Title abstract offices.....	635-7,9	50.1	54.0	54.4	55.4	59.9	61.8	70.8
Holding offices.....	654	15.5	17.4	16.1	14.9	17.0	20.3	22.6
Holding and other investment offices, nec.....	671	30.9	33.3	34.4	37.5	37.7	41.9	44.5
Services.....	672,3,9 07,70-86, 89,99	40.4 11,991	42.5 12,650	45.0 13,191	47.4 13,632	51.3 14,284	50.7 14,935	55.8 15,870
Veterinary, animal, landscape, and horticultural services	074,5,8	134.3	145.2	140.8	141.9	157.5	166.4	180.7
Camps and tramping parks.....	703	15.0	16.4	13.8	15.2	14.4	14.7	13.6
Other lodging places.....	702,4	19.1	19.2	23.4	21.3	20.6	18.5	17.8
Photographic studios, portrait.....	722	30.4	33.0	32.8	33.1	35.0	36.0	40.5
Barber shops.....	724	31.8	30.4	28.0	26.5	26.4	26.8	27.3
Misc. personal services.....	725,9	73.7	89.6	104.4	108.5	109.7	122.3	135.4
Other business services.....	735,9	814.4	885.6	918.5	964.4	995.6	1,035.7	1,132.0
Automotive rentals, without drivers..	751	65.5	78.0	81.7	79.7	83.1	88.3	102.5
Automobile parking.....	752	37.3	38.7	36.8	35.7	36.2	36.7	37.4
Automotive services, except repairs..	754	64.2	64.3	60.3	58.2	58.7	63.1	69.3
Electrical repair shops.....	762	60.5	62.4	66.1	65.1	68.3	69.9	76.3
Keupholstery and furniture repair....	764	22.1	22.9	21.5	20.2	21.4	22.0	22.3
Misc. repair services, nec.....	763,9	112.8	117.2	127.1	130.9	137.0	140.6	156.8
Motion picture distribution and services.....	782	12.0	11.3	11.0	10.4	9.8	10.4	11.1
Producers, orchestras, entertainers	792	62.3	57.8	63.1	62.6	65.8	72.1	76.2
Bowling and billiard establishments..	793	98.0	98.0	102.0	103.0	106.4	112.2	115.1
Commercial sports.....	794	49.0	55.4	48.4	55.7	60.6	60.5	60.7
Amusement and recreation services, nec.....	791,9	252.5	278.0	297.8	308.9	328.0	355.7	383.0
Offices of osteopathic physicians....	803	13.1	14.4	15.4	16.3	17.5	19.4	21.0
Offices of other health practitioners	804	42.1	48.9	56.3	59.6	62.7	69.0	77.4
Medical and dental laboratories.....	807	67.6	73.6	78.3	80.5	87.0	92.2	96.3
Health services, nec.....	808,9	73.1	83.8	91.9	108.1	122.3	135.2	157.7
Correspondence and vocational schools	824	43.5	49.2	48.2	44.6	45.9	44.4	45.9
Educational services, nec.....	823,9	40.5	44.0	48.3	52.3	56.9	54.9	63.2
Individual and family services.....	832	73.1	75.9	84.9	96.4	102.8	112.6	127.1
Job training and related services....	833	71.5	75.1	91.8	84.7	101.8	120.1	149.8
Child day care services.....	835	150.0	159.0	168.7	196.8	216.8	238.9	275.8
Residential care.....	836	107.4	113.4	126.1	141.2	152.9	175.8	190.0
Social services, nec.....	839	117.2	117.9	135.0	142.9	162.9	175.4	204.2
Museums, botanical, and zoological gardens.....	841,2	20.1	22.2	23.9	24.7	25.7	25.7	28.8
Business associations.....	861	62.4	65.8	69.1	74.3	74.7	75.6	79.7
Professional organizations.....	862	24.2	26.0	27.4	27.6	31.8	30.7	33.2
Labor organizations.....	863	118.6	130.0	137.2	138.6	138.9	142.6	141.6
Civic and social associations.....	864	270.9	276.3	284.3	293.2	294.6	296.5	304.5
Religious organizations.....	866	883.6	866.4	866.5	861.0	881.3	882.7	875.0
Political and membership org., nec...	865,9	44.4	48.6	52.0	55.9	64.9	60.4	64.9
Miscellaneous services, nec.....	892,9	92.6	97.0	100.9	106.7	107.9	109.3	116.2
Nonclassifiable establishments.....	99	35.8	45.8	62.9	80.1	123.0	110.5	111.3
Government.....	-	13,421	13,854	14,273	14,888	15,125	15,199	15,726
Federal.....	-	2,683	2,656	2,691	2,724	2,724	2,714	2,725
Small arms ammunition and ordnance	-	N.A.	N.A.	N.A.	26.5	27.5	28.6	19.4
Other manufacturing.....	-	N.A.	N.A.	N.A.	43.3	40.2	41.4	32.2
Trade division.....	-	N.A.	N.A.	N.A.	86.5	84.0	87.1	74.4
Finance division.....	-	N.A.	N.A.	N.A.	19.5	16.5	17.2	19.1
Other services.....	-	N.A.	N.A.	N.A.	141.2	138.7	143.9	154.7
State and local government.....	-	10,737	11,198	11,582	12,163	12,401	12,485	13,001
State government.....	-	2,900	2,978	3,085	3,258	3,311	3,427	3,502

See footnotes at end of table.

Table 6. Employment benchmarks for industries not published monthly, March, 1972-78—Continued

(In thousands)

Industry title	1972 SIC CODE	March 1972 ¹	March 1973	March 1974 ¹	March 1975	March 1976	March 1977	March 1978
Other State government.....	-	1,632.8	1,689.1	1,745.2	1,839.4	1,866.6	1,947.3	2,034.5
Construction division.....	-	279.6	280.9	279.8	272.0	257.0	268.1	271.5
Transportation and public utilities.....	-	25.3	25.9	26.3	26.7	29.4	30.7	31.8
Social services.....	-	113.6	124.8	136.9	157.2	157.9	164.7	161.6
Services, except hospitals, education, and social services	-	68.1	71.7	78.3	85.1	89.3	93.2	103.8
All other State government.....	-	694.0	715.8	743.1	798.0	820.0	855.4	914.7
Local government.....	-	7,836	8,219	8,496	8,904	9,089	9,058	9,499
Other local government.....	-	3,321.3	3,488.4	3,625.3	3,797.9	3,901.3	3,870.7	4,113.1
Social services.....	-	171.1	176.3	181.5	187.5	188.1	186.6	228.7
Services, except hospitals, education, and social services	-	98.8	101.8	103.5	111.0	109.7	108.8	108.9

¹ Data for 1972 and 1974 are estimates, not universe counts.
 Note: Includes overall total and industry division totals which are published regularly.
 nec = not elsewhere classified

ESTABLISHMENT DATA

Seasonal Factors

The following tables present seasonal adjustment factors for all series in the establishment section of this periodical. These factors were derived using data through May 1979. The factors should be used with current estimates (adjusted to the March 1978 benchmarks) beginning July 1979.

The seasonal movements are measured in order to adjust the data statistically for such recurring events as warm and cold weather, crop-growing cycles, holidays, vacations, regular industry model change-over periods, and the like. These movements are generally the largest single component of month-to-month change in employment, hours, earnings, and labor turnover. The seasonal factors which follow enable the analyst to remove these influences from the data in order to determine more basic trends.

7. Seasonal adjustment factors for employees on nonagricultural payrolls, by industry division and major manufacturing group

Industry	1979						1980					
	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
TOTAL ¹												
MINING	102.1	101.9	100.7	100.3	100.1	99.3	98.2	97.7	98.5	99.1	100.0	102.0
CONSTRUCTION	106.5	108.0	106.7	106.0	103.5	98.5	88.9	88.2	91.6	96.8	100.3	104.7
MANUFACTURING ¹												
DURABLE GOODS ¹												
Lumber and wood products	103.1	103.7	102.4	101.5	99.7	98.6	96.2	96.0	97.0	98.4	100.2	103.4
Furniture and fixtures	97.4	100.0	101.1	101.2	101.2	100.9	100.0	99.9	99.8	99.5	99.3	99.9
Stone, clay, and glass products	102.2	102.6	102.2	101.7	101.2	99.1	96.2	95.6	97.1	99.0	100.5	102.5
Primary metal industries	100.4	100.0	100.7	99.9	99.5	99.7	99.5	99.1	99.4	99.9	100.4	101.4
Fabricated metal products	99.2	100.1	101.1	100.9	100.7	100.3	99.5	99.0	99.3	99.5	99.9	100.7
Machinery, except electrical	99.4	99.0	100.0	99.7	100.1	100.5	100.4	100.4	100.4	100.1	99.7	100.3
Electric and electronic equipment	99.1	99.9	100.9	100.9	101.0	100.6	99.8	99.6	99.5	99.3	99.5	100.2
Transportation equipment	299.5	299.2	200.1	100.8	100.8	101.2	100.3	98.5	99.5	99.9	100.7	101.0
Instruments and related products	99.9	100.1	100.1	99.9	100.3	100.2	99.0	99.8	99.7	99.7	99.8	100.8
Miscellaneous manufacturing ind.	97.5	102.1	103.6	104.0	103.0	98.7	96.2	97.2	98.1	98.5	99.9	101.4
NONDURABLE GOODS ¹												
Food and kindred products	101.8	106.7	107.3	103.5	100.5	98.9	96.7	95.9	96.0	95.9	96.8	99.8
Tobacco manufactures	91.7	108.3	110.6	110.9	108.4	107.2	102.2	98.1	93.7	90.1	88.4	90.1
Textile mill products	99.2	100.5	100.6	100.3	100.5	100.1	99.6	99.7	99.7	99.8	100.0	101.0
Apparel and other textile products	96.6	100.5	101.2	101.4	101.1	99.6	98.1	99.5	100.2	99.9	100.3	101.6
Paper and allied products	100.2	100.9	100.6	100.4	100.3	100.1	99.2	99.0	99.0	99.2	99.8	101.3
Printing and publishing	99.7	99.9	100.1	100.2	100.3	100.7	99.7	99.7	99.8	99.8	99.9	100.1
Chemicals and allied products	100.6	100.9	100.4	100.2	100.1	99.7	99.2	99.3	99.6	99.6	99.7	100.7
Petroleum and coal products	102.7	102.3	101.3	100.7	100.2	99.0	97.4	97.4	97.9	99.0	100.1	102.1
Rubber and misc. plastic products	98.8	100.3	101.5	101.6	101.2	100.4	99.6	99.3	99.3	98.8	99.1	100.6
Leather and leather products	98.0	101.0	99.9	100.1	100.4	99.5	98.3	99.0	99.5	100.3	101.1	102.9
TRANSPORTATION AND PUBLIC UTILITIES	100.0	100.3	101.2	100.5	100.5	100.6	98.8	98.7	98.9	99.3	99.9	100.8
WHOLESALE AND RETAIL TRADE ¹												
WHOLESALE TRADE	100.5	100.5	100.3	100.5	100.3	100.3	99.3	99.0	99.3	99.5	99.8	100.6
RETAIL TRADE	99.8	99.9	100.5	100.3	101.7	104.4	98.9	97.2	97.7	99.3	100.0	100.5
FINANCE, INSURANCE, AND REAL ESTATE	101.2	101.0	100.1	99.9	99.8	99.7	99.2	99.2	99.4	99.7	100.0	100.9
SERVICES	101.3	101.0	100.2	100.2	99.9	99.5	98.1	98.7	99.5	100.1	100.5	101.1
GOVERNMENT ¹												
FEDERAL ³	101.9	101.1	99.6	99.5	99.6	99.4	99.0	99.3	99.4	99.7	100.1	101.3
STATE AND LOCAL	94.8	93.8	97.4	100.8	101.9	101.7	100.4	101.9	102.4	102.1	102.0	100.7

¹ Seasonally adjusted data derived by summation of components.

² Factors shown for July, August and September are based on data excluding motor vehicles (SIC 371). Comparable factor for June is 100.9

³ Based on data which exclude temporary Christmas employees of the Postal Service during December.

⁴ Factors shown are for 1980. Factors for March and April 1979 were 97.8 and 98.3 respectively.

ESTABLISHMENT DATA

**8. Seasonal adjustment factors for women employees on nonagricultural payrolls,
by industry division and major manufacturing group**

Industry	1979						1980					
	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
TOTAL¹												
MINING	102.0	101.6	100.2	99.7	99.7	98.5	98.6	98.9	99.4	99.8	99.5	101.9
CONSTRUCTION	101.7	102.0	101.3	100.9	100.3	99.5	98.3	98.2	98.1	98.6	99.6	101.4
MANUFACTURING¹												
DURABLE GOODS¹												
Lumber and wood products	101.1	102.2	102.1	101.5	100.6	99.0	97.5	96.9	97.8	99.0	100.5	102.2
Furniture and fixtures	95.9	98.8	101.2	101.9	102.3	101.6	100.5	100.0	99.6	99.6	99.7	99.1
Stone, metal, and glass products	100.9	101.4	101.6	101.6	101.4	99.5	98.2	97.8	98.0	98.7	99.8	101.4
Primary metal industries ²	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Fabricated metal products	98.8	99.8	101.1	101.4	101.2	100.3	99.2	98.7	99.1	99.6	100.1	101.0
Machinery, except electrical	99.5	99.1	99.9	100.0	100.4	100.6	100.4	100.3	100.4	100.0	99.5	100.1
Electric and electronic equipment	98.5	99.9	101.3	101.5	101.5	100.7	99.5	99.2	99.2	99.2	99.4	100.2
Transportation equipment	100.1	99.1	102.3	101.3	100.9	100.3	99.4	97.7	98.7	99.3	100.2	101.1
Instruments and related products	99.1	100.0	100.2	100.5	100.6	100.5	99.6	99.6	99.5	99.7	99.8	101.1
Miscellaneous manufacturing ind.	96.5	102.4	105.2	106.2	104.6	98.0	94.2	96.3	97.6	97.8	99.8	101.5
NONDURABLE GOODS¹												
Food and kindred products	101.8	111.8	114.5	106.8	102.1	97.8	93.6	92.7	93.8	93.3	94.1	98.2
Tobacco manufactures	86.3	110.4	114.3	114.9	112.5	109.9	102.5	98.6	92.1	86.5	84.9	86.7
Textile mill products	98.1	100.5	100.8	100.8	100.8	99.9	99.1	99.4	99.6	100.0	100.1	101.0
Apparel and other textile products	96.2	100.3	101.1	101.4	101.2	99.6	98.0	99.7	100.5	100.2	100.4	101.6
Paper and allied products	99.8	101.2	101.2	101.4	101.2	100.1	98.6	98.3	98.4	98.8	99.3	101.8
Printing and publishing	99.7	99.9	99.8	100.3	100.4	100.8	99.6	99.6	99.9	100.0	99.9	100.1
Chemicals and allied products	100.8	101.5	101.3	101.1	100.3	99.5	98.6	98.7	99.2	99.1	99.4	100.8
Petroleum and coal products	103.0	102.2	100.1	99.4	98.9	98.9	98.2	98.4	99.2	99.8	100.0	101.9
Rubber and misc. plastic products	97.3	99.0	102.5	102.5	101.7	100.5	99.3	99.3	99.4	99.0	99.2	100.6
Leather and leather products	98.2	101.4	100.3	100.5	100.9	99.4	98.0	98.5	99.0	99.8	101.1	103.0
TRANSPORTATION AND PUBLIC UTILITIES	99.3	99.1	100.4	100.6	100.4	100.5	100.0	99.6	99.8	99.6	100.2	100.7
WHOLESALE AND RETAIL TRADE¹												
WHOLESALE TRADE	99.5	99.9	100.4	101.3	101.1	101.0	99.6	99.1	99.3	99.3	99.4	100.2
RETAIL TRADE	99.0	99.2	100.3	100.5	102.7	107.2	99.0	96.7	97.2	98.8	99.6	99.8
FINANCE, INSURANCE, AND REAL ESTATE	100.8	100.7	100.0	99.9	100.0	100.0	99.4	99.5	99.7	99.7	99.8	100.6
SERVICES	100.4	100.1	100.1	100.3	100.1	99.8	98.6	99.2	99.9	100.3	100.5	100.8
GOVERNMENT¹												
FEDERAL	102.4	100.9	98.6	98.8	98.9	99.1	99.2	99.6	99.7	100.4	100.6	101.7
STATE AND LOCAL	99.6	88.1	96.7	101.7	103.2	102.9	101.7	103.4	104.1	103.7	103.8	101.0

¹ Seasonally adjusted data derived by summation of components.

² The seasonal factors are not computed because the seasonal components is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

³ Factors shown are for 1980. Factors for March and April 1979 were 97.0 and 98.0 respectively.

ESTABLISHMENT DATA

9. Seasonal adjustment factors for production or nonsupervisory workers¹ on private nonagricultural payrolls by industry division and major manufacturing group

Industry	1979						1980					
	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
TOTAL												
MINING	102.4	101.9	100.7	100.3	100.3	99.3	98.1	97.5	98.3	98.7	100.0	102.3
CONSTRUCTION	107.5	109.6	108.1	107.4	104.4	98.3	86.6	85.7	89.9	96.3	100.4	105.4
MANUFACTURING²												
DURABLE GOODS²												
Lumber and wood products	103.3	104.0	102.7	101.6	99.6	98.3	95.9	95.8	96.7	98.2	100.4	103.8
Furniture and fixtures	97.0	100.0	101.1	101.3	101.4	101.0	100.0	99.9	99.8	99.5	99.2	99.9
Stone, clay, and glass products	102.6	103.0	102.5	102.1	101.4	99.0	95.4	94.8	96.5	99.0	100.8	103.0
Primary metal industries	100.1	99.9	100.8	99.9	99.6	99.7	99.5	99.0	99.3	100.0	100.6	101.5
Fabricated metal products	98.8	100.0	101.3	101.1	100.9	100.4	99.4	98.8	99.1	99.4	99.9	100.8
Machinery, except electrical	98.8	98.3	99.9	99.7	100.3	101.0	100.7	100.6	100.6	100.4	99.6	100.2
Electric and electronic equipment	98.5	99.6	101.2	101.2	101.4	101.0	99.7	99.5	99.4	99.1	99.4	100.2
Transportation equipment	99.6	98.6	99.9	101.3	101.3	101.8	100.5	98.1	99.5	100.0	101.1	101.2
Instruments and related products	99.5	99.9	100.1	99.8	100.5	100.5	100.0	99.8	99.5	99.6	99.9	100.9
Miscellaneous manufacturing ind.	96.9	102.6	104.5	105.1	103.7	98.1	95.2	96.6	97.7	98.2	100.1	101.7
NONDURABLE GOODS²												
Food and kindred products	102.0	109.2	110.2	104.9	101.4	98.5	95.5	94.5	94.9	94.4	95.5	99.4
Tobacco manufactures	89.8	109.7	112.3	112.7	110.1	108.8	102.5	97.9	92.7	88.4	86.5	88.3
Textile mill products	98.0	100.6	100.7	100.4	100.5	100.2	99.5	99.6	99.7	99.8	100.0	101.1
Apparel and other textile products	96.3	100.6	101.3	101.5	101.2	99.5	97.9	99.5	100.3	100.0	100.3	101.7
Paper and allied products	100.1	101.0	100.8	100.5	100.3	100.1	99.1	98.8	98.8	99.1	99.8	101.7
Printing and publishing	99.2	99.6	100.3	100.3	100.3	101.1	99.5	99.7	99.9	100.1	100.0	99.9
Chemicals and allied products	100.4	100.6	100.4	100.1	99.8	99.5	99.1	99.3	99.8	99.8	100.1	101.0
Petroleum and coal products	103.4	103.1	101.8	101.2	100.3	98.4	96.5	96.6	97.3	98.6	100.2	102.7
Rubber and misc. plastic products	98.4	100.4	101.5	101.9	101.3	100.4	99.4	99.1	99.1	98.7	99.1	100.9
Leather and leather products	98.0	101.2	95.8	99.8	100.3	99.1	98.2	98.9	99.6	100.4	101.5	103.3
TRANSPORTATION AND PUBLIC UTILITIES	100.6	100.4	101.3	100.6	100.5	100.6	98.7	98.5	98.8	99.2	100.0	100.9
WHOLESALE AND RETAIL TRADE²												
WHOLESALE TRADE	100.6	100.6	100.4	100.5	100.4	100.3	99.2	98.9	99.2	99.5	99.8	100.7
RETAIL TRADE	99.7	99.8	100.4	100.3	101.8	104.8	98.8	97.0	97.6	99.2	100.0	100.4
FINANCE, INSURANCE, AND REAL ESTATE	101.4	101.2	100.1	99.9	99.8	99.7	99.0	99.0	99.3	99.6	100.0	101.1
SERVICES	101.3	101.0	100.2	100.2	99.8	99.5	98.0	98.7	99.5	100.2	100.6	101.1

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

² Seasonally adjusted data derived by summation of components.

³ Factors shown for July, August, and September are based on data excluding motor vehicles (SIC 371). Comparable factor for June is 101.3.

⁴ Factors shown are for 1980. Factors for March and April 1979 were 97.6 and 99.2, respectively.

ESTABLISHMENT DATA

10. Seasonal adjustment factors for average weekly hours of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry division and major manufacturing group

Industry	1979						1980					
	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
TOTAL PRIVATE²												
MINING	100.2	99.7	100.9	101.5	101.2	100.0	97.8	98.9	99.6	99.4	99.9	100.7
CONSTRUCTION	102.5	102.2	101.1	102.6	99.3	99.9	93.3	96.7	99.8	100.0	100.4	101.8
MANUFACTURING²												
DURABLE GOODS²												
Lumber and wood products	100.2	100.9	100.9	101.1	99.8	100.4	96.4	98.4	99.2	100.0	100.6	102.1
Furniture and fixtures	98.9	100.9	101.0	101.2	100.8	102.4	98.5	98.2	99.7	98.5	99.3	100.9
Stone, clay, and glass products	100.3	101.0	100.6	101.0	100.5	100.6	97.0	97.7	99.5	99.7	100.6	101.3
Primary metal industries	99.9	99.6	100.7	99.4	99.9	100.7	99.7	99.7	99.8	99.7	100.0	100.9
Fabricated metal products	98.7	99.8	100.3	100.2	100.7	102.2	99.2	99.1	99.9	99.3	100.0	100.7
Machinery, except electrical	98.4	99.2	100.1	99.9	100.8	102.8	99.6	100.0	100.4	99.6	99.4	100.0
Electric and electronic equipment	98.6	99.8	100.4	100.1	100.7	102.0	99.5	99.5	100.0	99.6	99.6	100.5
Transportation equipment	99.9	97.2	100.3	100.0	100.6	104.0	97.8	98.7	99.9	100.0	100.3	101.2
Instruments and related products	99.0	99.5	100.3	100.2	101.0	101.9	98.8	99.6	100.3	99.3	100.1	100.2
Miscellaneous manufacturing ind.	98.5	99.6	100.4	100.5	101.2	101.2	99.1	99.0	100.4	100.0	99.8	100.3
NONDURABLE GOODS²												
Food and kindred products	100.7	101.4	101.6	100.3	100.5	101.1	98.8	98.5	99.0	98.6	99.4	100.0
Tobacco manufactures	93.8	98.9	101.4	101.4	103.3	101.9	97.1	98.0	100.3	99.9	100.1	103.6
Textile mill products	99.4	100.4	100.5	100.0	100.6	101.1	98.0	99.2	100.2	99.4	100.2	101.2
Apparel and other textile products	100.3	100.8	100.4	100.5	100.9	100.8	98.0	98.6	100.0	99.1	99.8	101.0
Paper and allied products	99.9	100.0	100.7	100.1	100.4	101.5	99.5	98.8	99.6	99.5	99.6	100.6
Printing and publishing	99.8	100.4	101.0	100.3	100.7	101.8	98.3	99.0	100.0	99.1	99.6	99.9
Chemicals and allied products	99.6	99.6	100.2	100.0	100.4	101.1	99.3	99.4	99.9	100.4	99.8	100.3
Petroleum and coal products	101.2	99.7	101.3	100.9	100.9	99.8	98.5	98.0	99.5	99.9	100.1	100.3
Rubber and misc. plastic products	98.9	99.6	100.5	100.4	100.7	101.9	99.2	100.1	100.3	99.3	99.1	100.0
Leather and leather products	100.7	100.4	99.5	100.0	100.4	101.1	98.6	98.6	98.9	99.1	100.8	102.0
TRANSPORTATION AND PUBLIC UTILITIES	100.7	100.9	100.0	100.0	100.0	100.6	98.9	99.8	99.6	99.5	99.5	100.6
WHOLESALE AND RETAIL TRADE²												
WHOLESALE TRADE	100.6	100.4	100.2	100.3	100.0	100.6	99.2	99.2	99.8	99.7	99.8	100.4
RETAIL TRADE	103.1	102.8	100.0	99.4	99.1	101.3	97.6	98.3	98.8	98.9	99.5	101.2
FINANCE, INSURANCE, AND REAL ESTATE	100.3	100.3	99.7	100.2	99.8	99.9	100.2	100.1	99.8	99.8	99.9	99.9
SERVICES	101.4	101.5	99.9	99.9	99.7	99.8	99.4	99.5	99.5	99.4	99.4	100.6

¹ See footnote 1, table 9.

² See footnote 2, table 9.

11. Seasonal adjustment factors for average weekly overtime hours of production workers on manufacturing payrolls

Industry	1979						1980					
	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE
MANUFACTURING¹												
DURABLE GOODS	97.0	101.7	109.1	105.4	103.1	107.2	93.3	95.4	97.1	94.8	95.8	101.4
NONDURABLE GOODS	99.2	105.5	112.2	105.1	103.0	102.4	93.8	94.3	94.6	93.8	96.0	100.8

¹ See footnote 2, table 9.

ESTABLISHMENT DATA

12. Seasonal adjustment factors for average hourly earnings of production or nonsupervisory workers¹ on private nonagricultural payrolls, by industry division

Industry	1979						1980						
	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	
TOTAL PRIVATE²													
MINING	100.3	99.0	100.8	100.0	99.9	99.7	100.3	99.8	99.9	99.8	100.2	100.0	
CONSTRUCTION	99.7	100.0	101.3	101.2	100.5	100.4	100.4	99.6	99.3	99.0	99.4	99.3	
MANUFACTURING	99.8	99.3	100.3	100.0	100.0	100.8	100.5	100.1	100.0	99.7	99.7	99.7	
TRANSPORTATION AND PUBLIC UTILITIES	99.8	100.3	100.9	100.7	100.5	100.2	100.2	100.0	99.2	99.6	99.4	99.2	
WHOLESALE AND RETAIL TRADE ...	99.7	99.2	100.1	100.1	99.8	99.1	100.8	100.9	100.4	100.3	100.1	99.8	
FINANCE, INSURANCE, AND REAL ESTATE	99.8	99.4	99.7	99.9	99.5	99.7	100.8	101.0	100.0	100.1	100.2	99.8	
SERVICES	98.8	98.4	100.0	100.3	100.4	100.3	100.9	101.0	100.4	100.3	100.1	99.3	

¹ See footnote 1, table 9.

² See footnote 2, table 9.

13. Seasonal adjustment factors¹ for labor turnover rates in manufacturing

Item	1979						1980							
	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.
Total accessions²														
New hires	110.9	139.0	123.4	107.6	74.2	50.1	83.5	76.2	90.5	98.0	116.0	131.0	111.4	135.2
Other accessions and recalls ..	112.8	116.9	96.1	80.6	74.1	71.0	121.8	98.5	109.6	107.1	109.7	101.2	111.6	116.8
Total separations²														
Quits	104.4	170.7	143.1	104.1	78.4	57.5	80.4	72.9	85.8	96.5	103.6	101.6	107.2	166.3
Layoffs	118.0	87.9	93.4	104.9	116.7	147.5	123.8	94.7	87.2	81.8	70.8	74.5	115.5	86.5
Other separations	101.8	125.6	106.0	108.1	91.9	77.0	102.6	94.7	97.6	96.1	102.4	100.7	102.9	121.6

¹ Factors include the effects of trading day variations.

² Seasonally adjusted data derived by summation of components.

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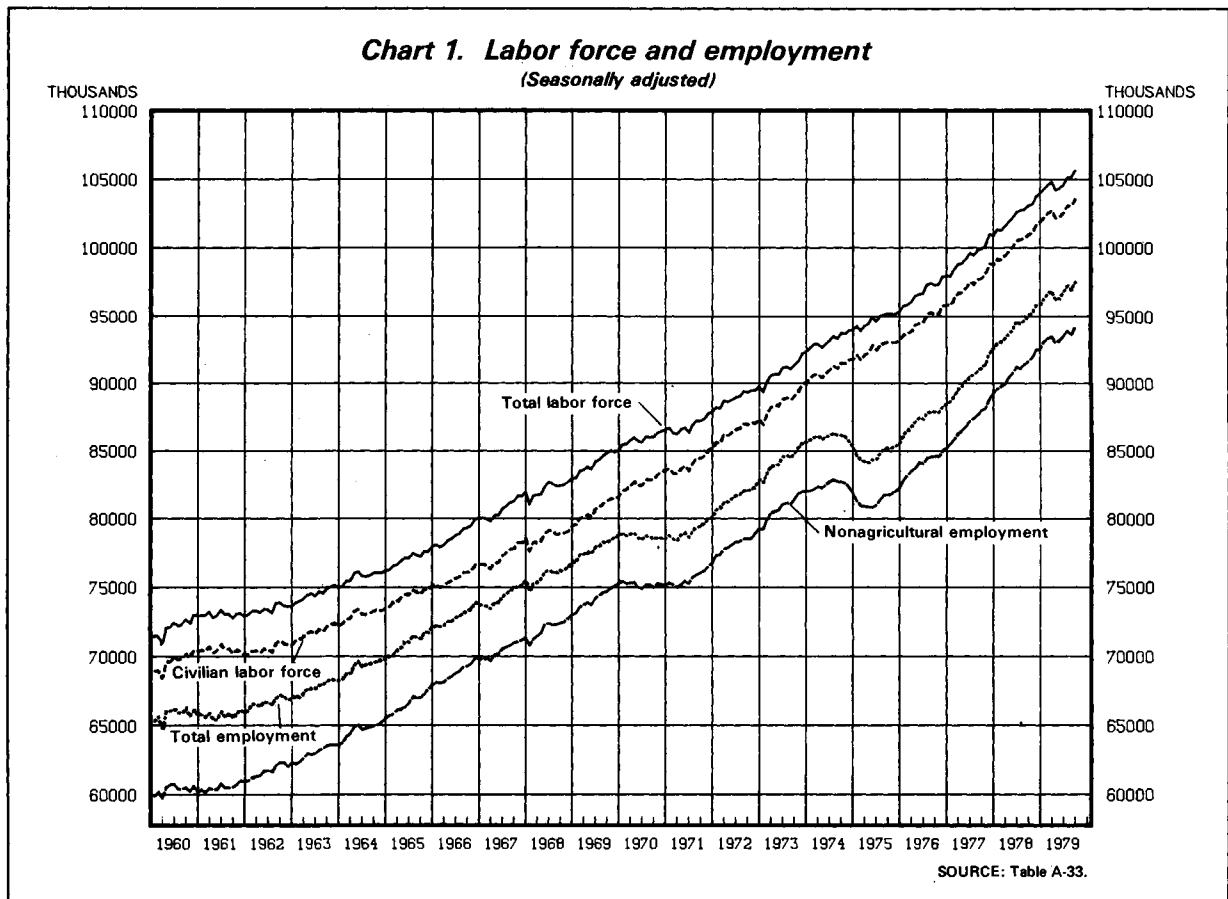


Chart 2. Major unemployment indicators
(Seasonally adjusted)

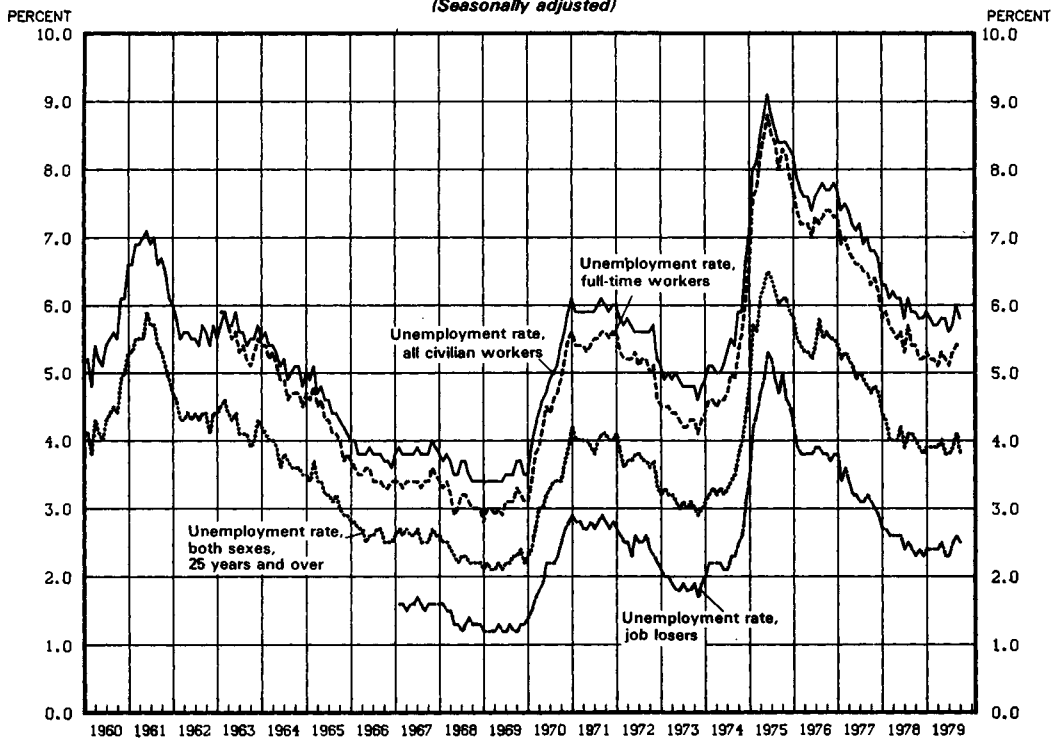


Chart 3. Civilian labor force participation rates by sex and age
(Seasonally adjusted)

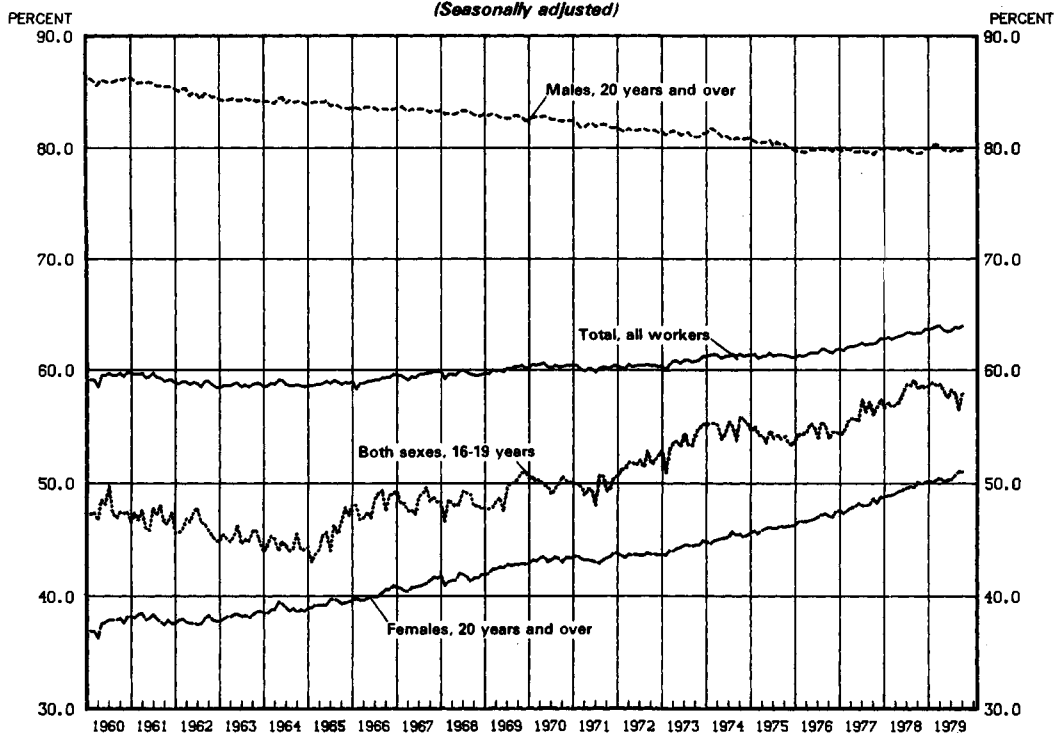
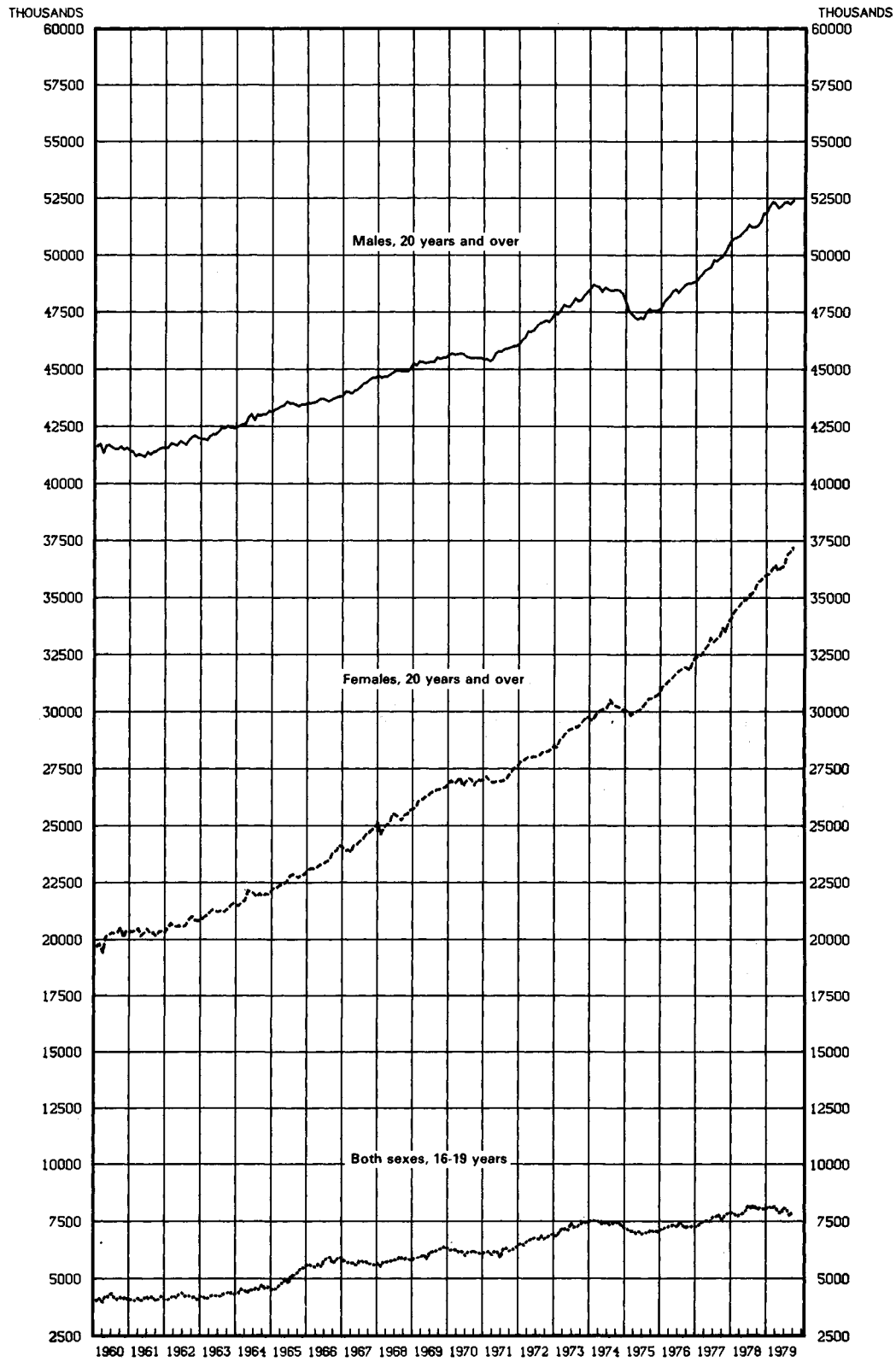


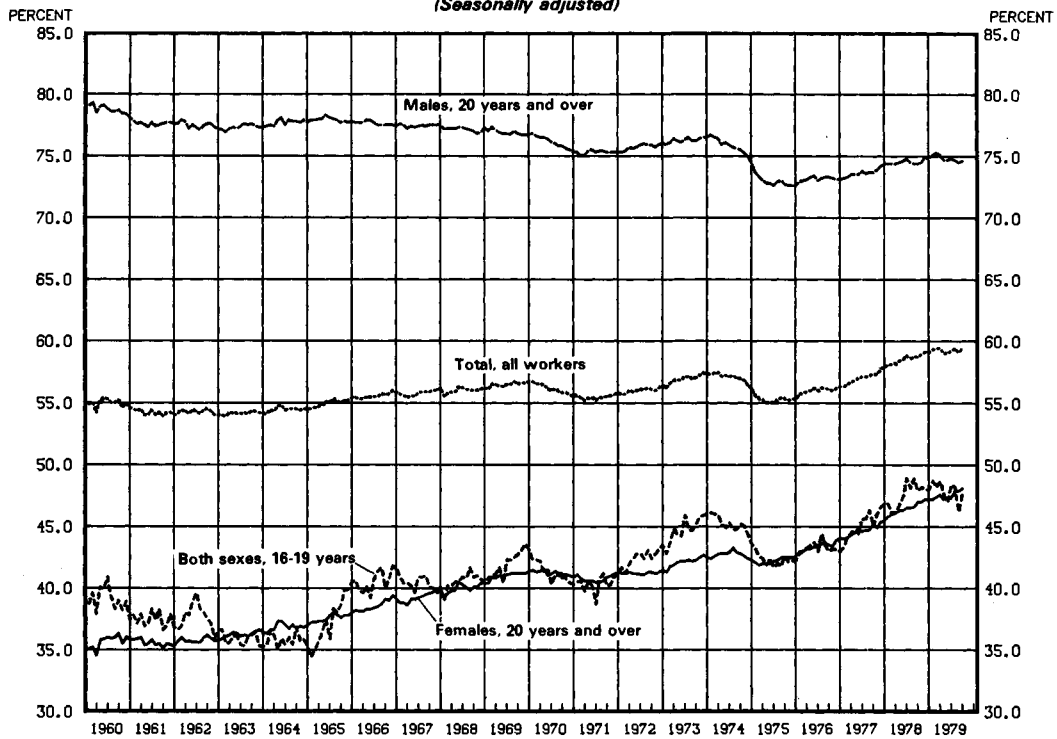
Chart 4. Total employment by sex and age

(Seasonally adjusted)



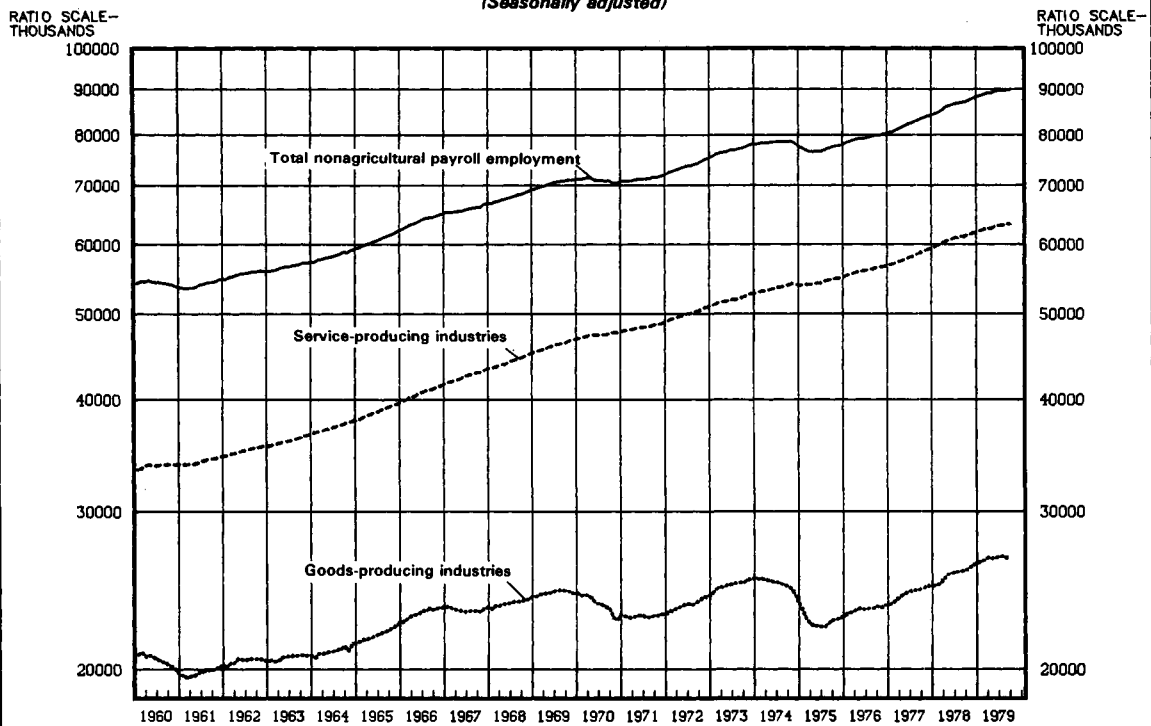
SOURCE: Table A-33.

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



SOURCE: Table A-33.

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

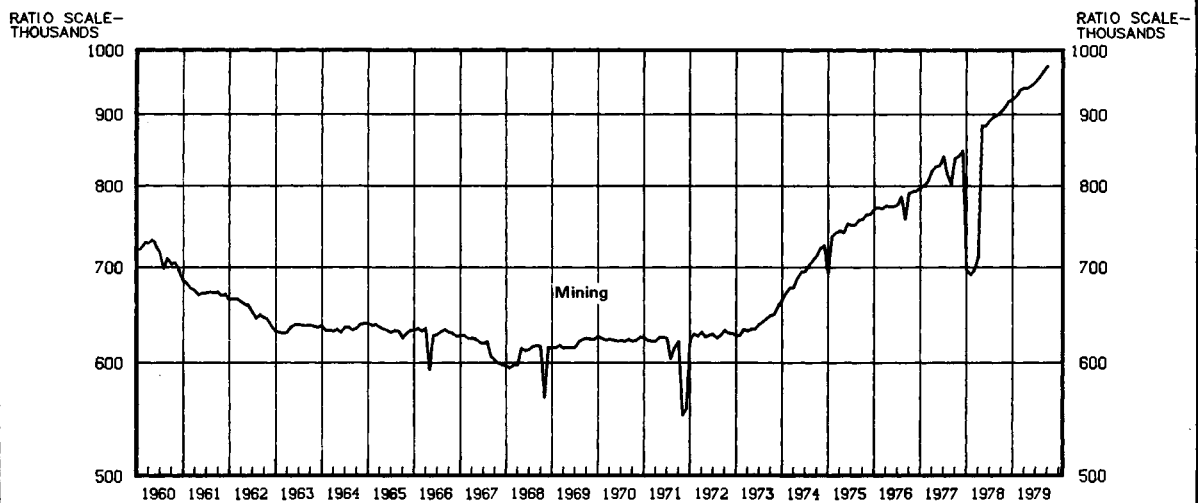
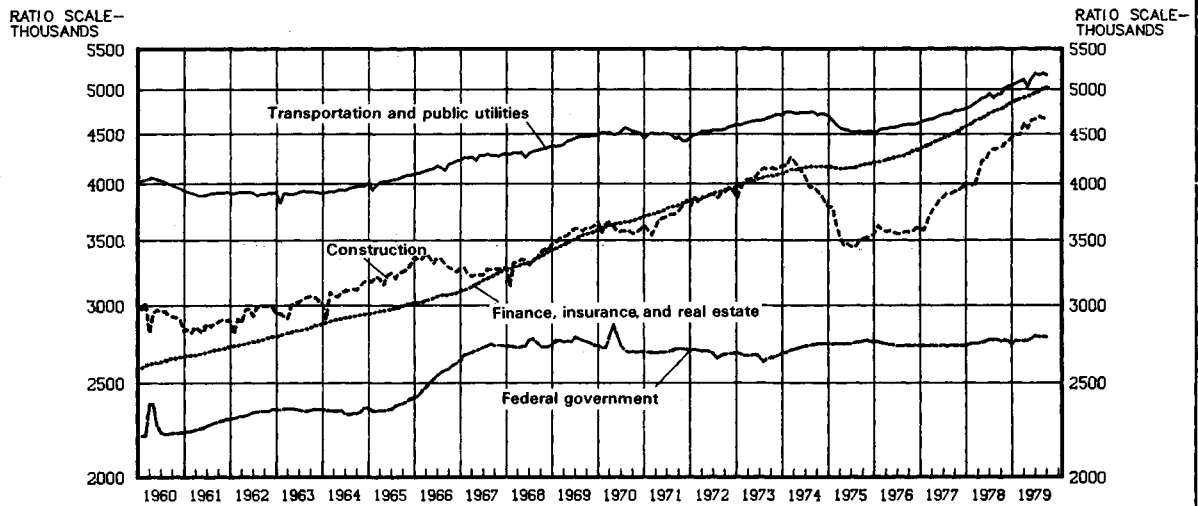
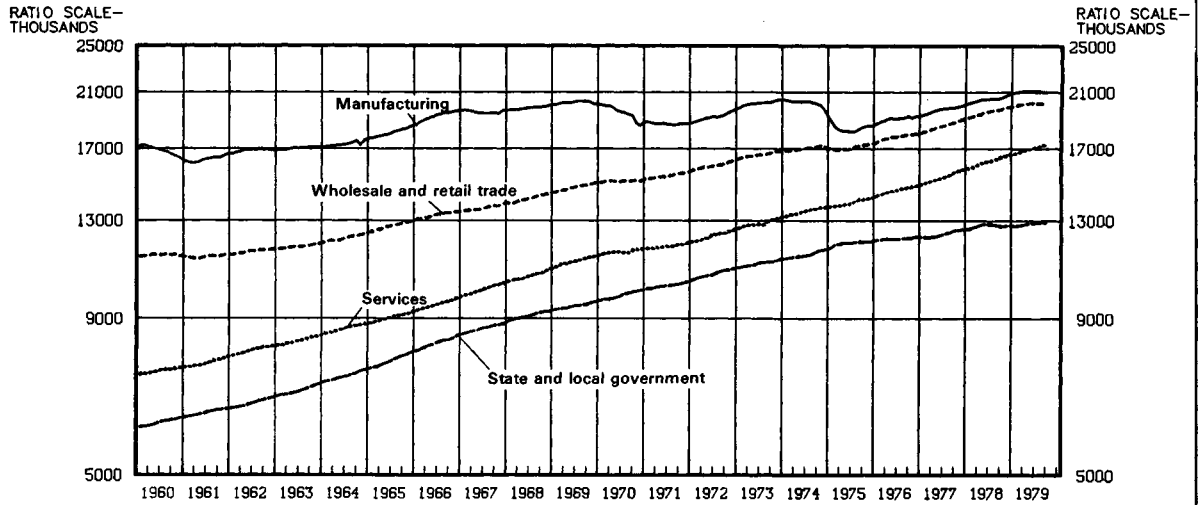


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

Chart 7. Nonagricultural payroll employment by industry

(Seasonally adjusted)

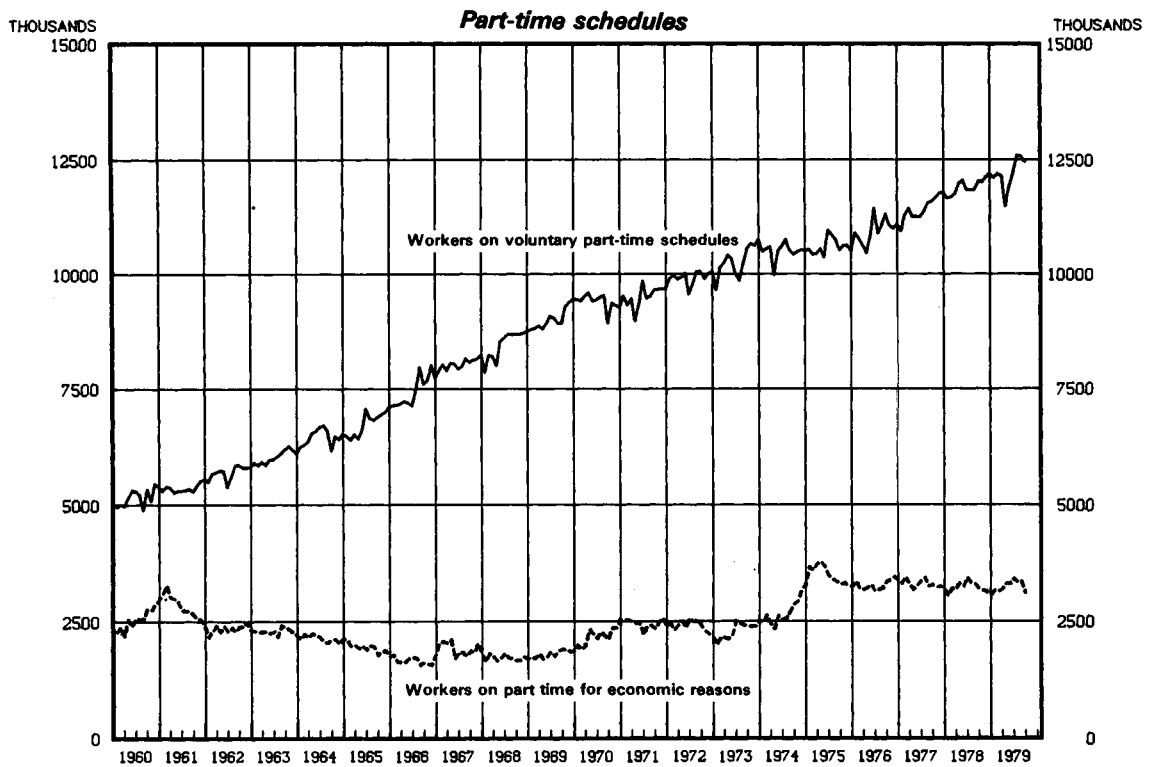
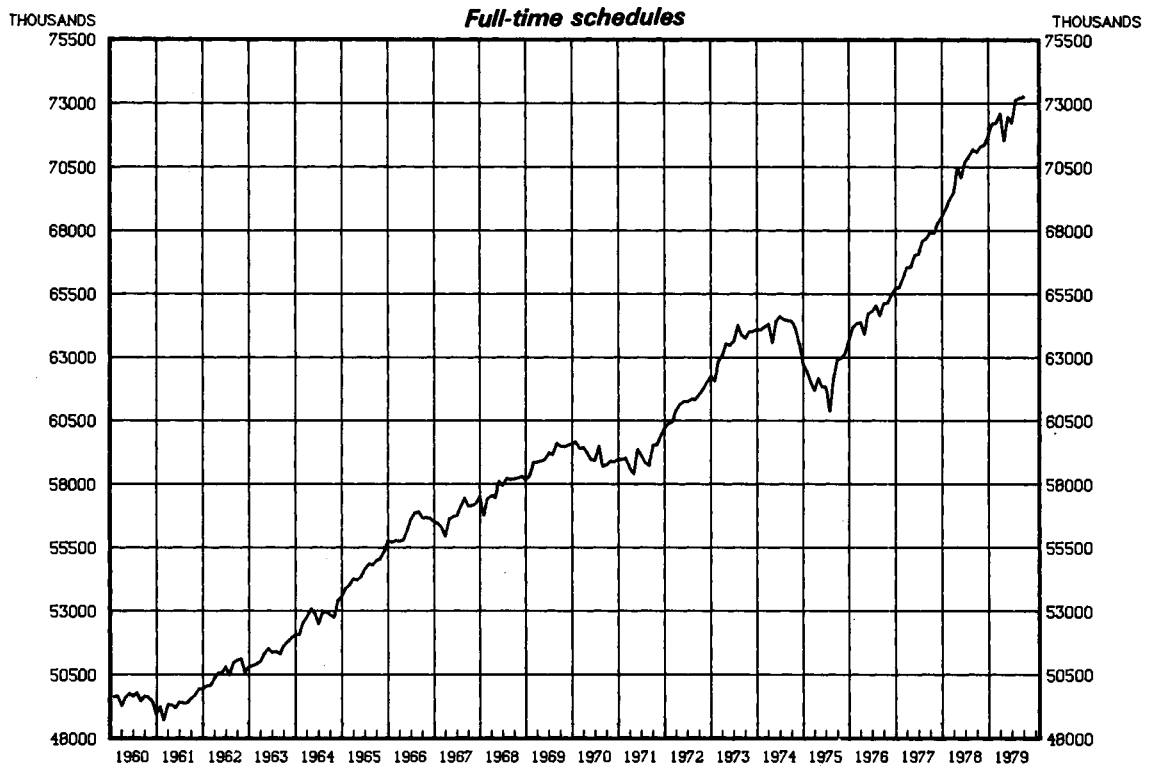


NOTE: Data for two most recent months are preliminary.

SOURCE: Table B-4.

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

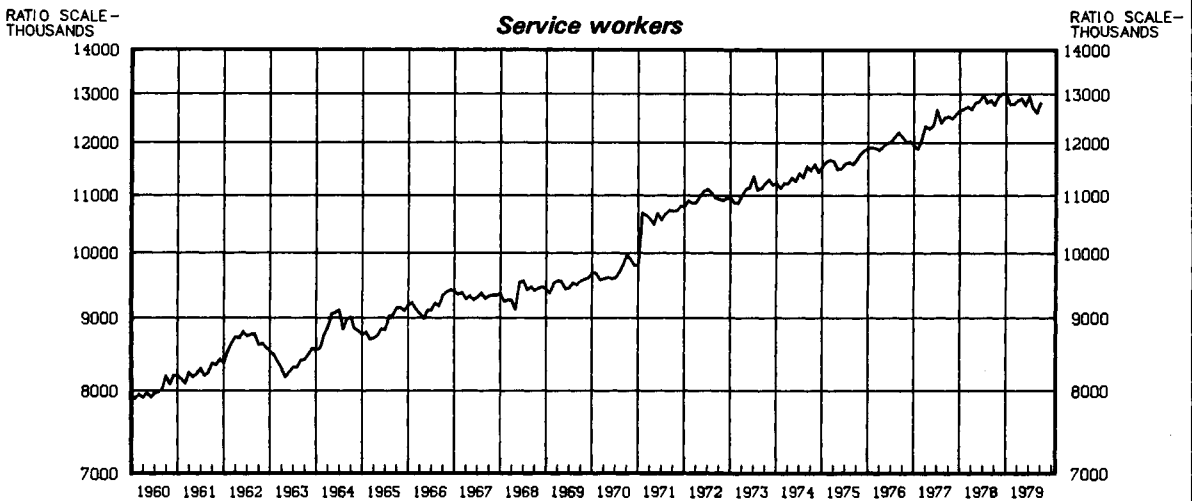
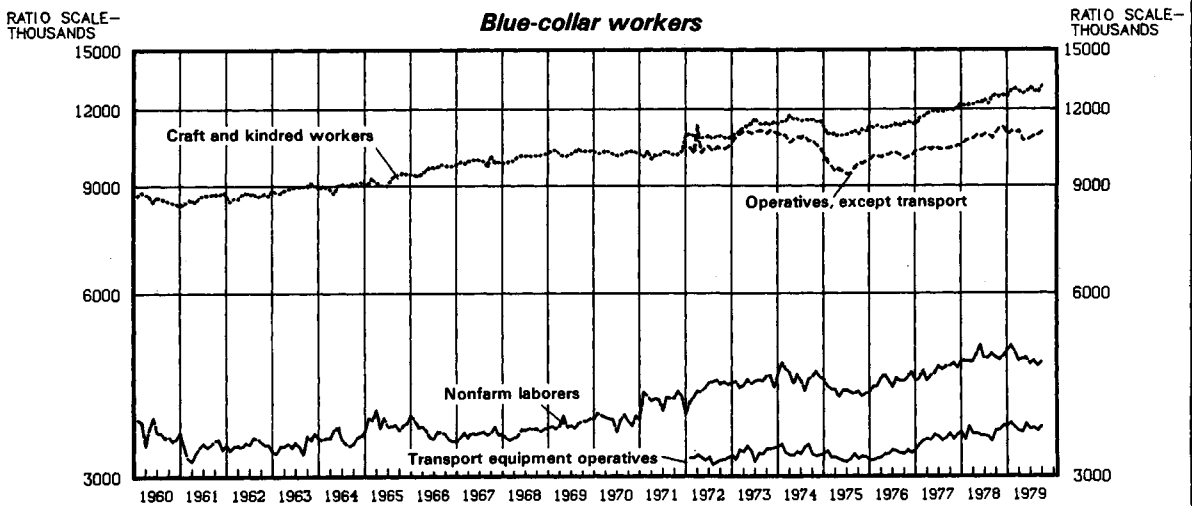
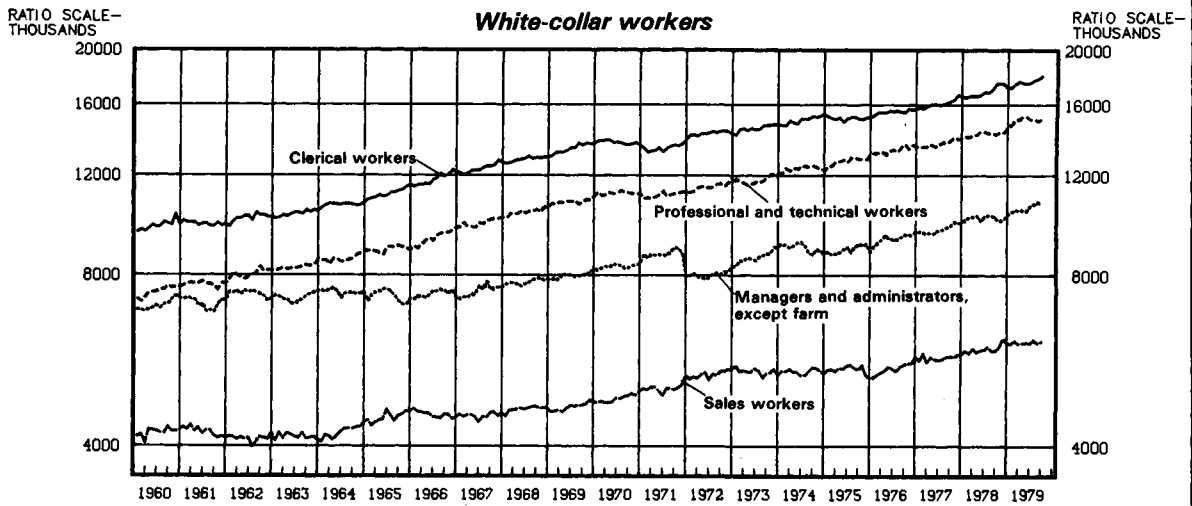
(Seasonally adjusted)



SOURCE: Table A-42.

Chart 9. Employment in nonfarm occupations

(Seasonally adjusted)

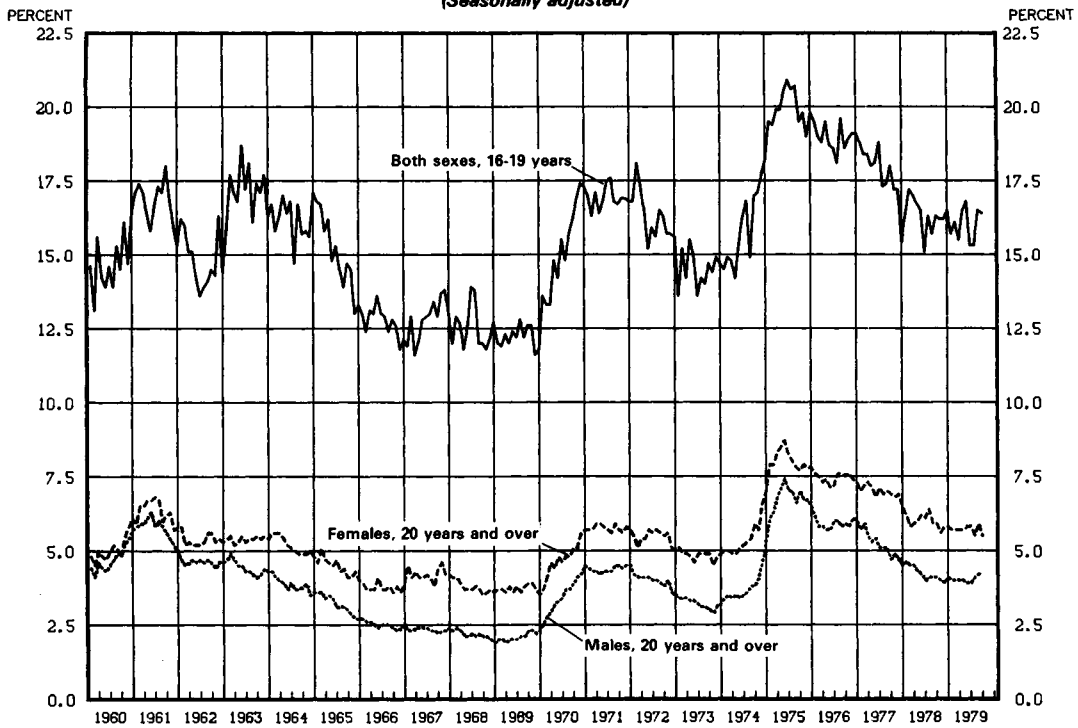


NOTE: Two breaks in series occurred in 1971 stemming from the reclassification of occupations introduced in January and from a questionnaire change concerning "major activity" introduced in December. See "Changes in occupational classification system" in the Explanatory Notes.

SOURCE: Table A-42.

Chart 10. Unemployment rates by sex and age

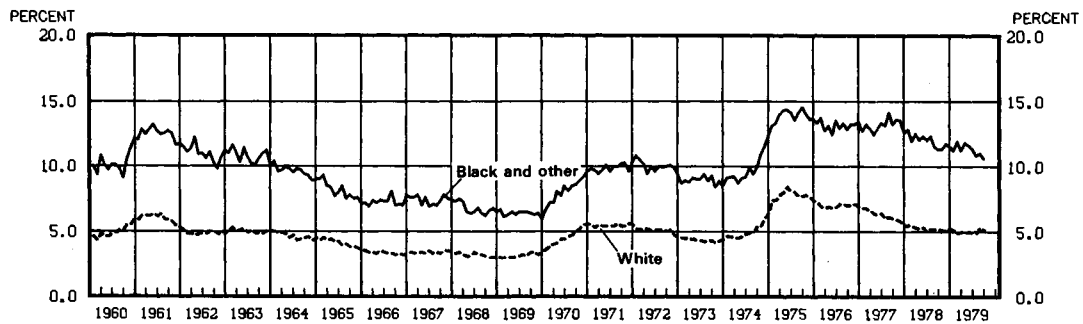
(Seasonally adjusted)



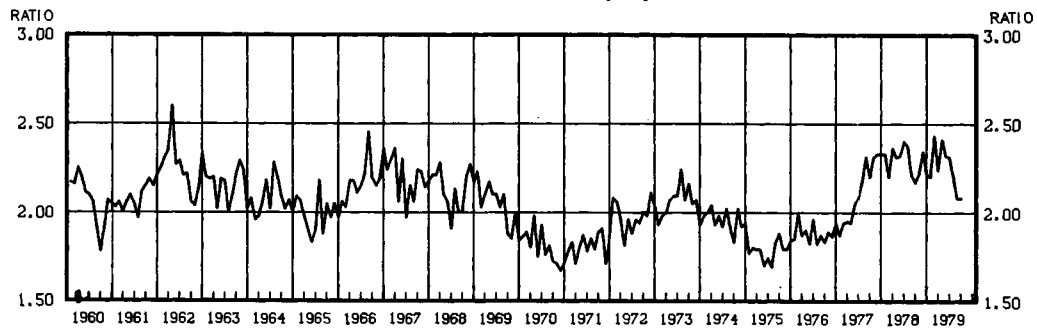
SOURCE: Table A-36.

Chart 11. Unemployment rates by race

(Seasonally adjusted)

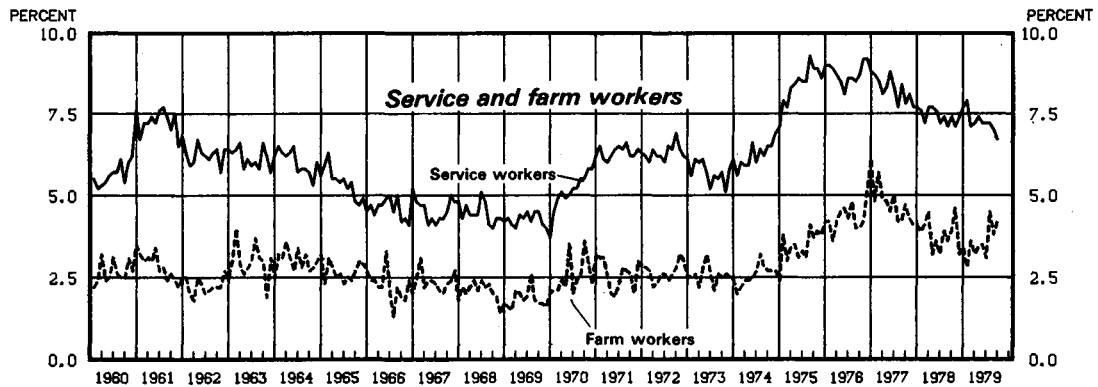
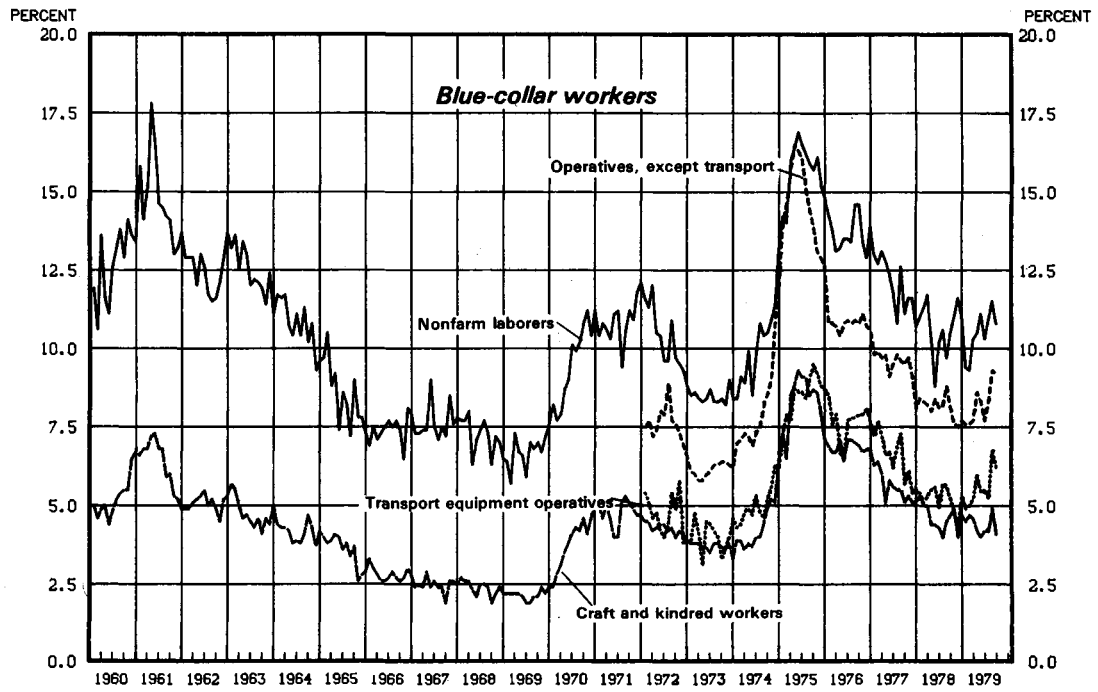
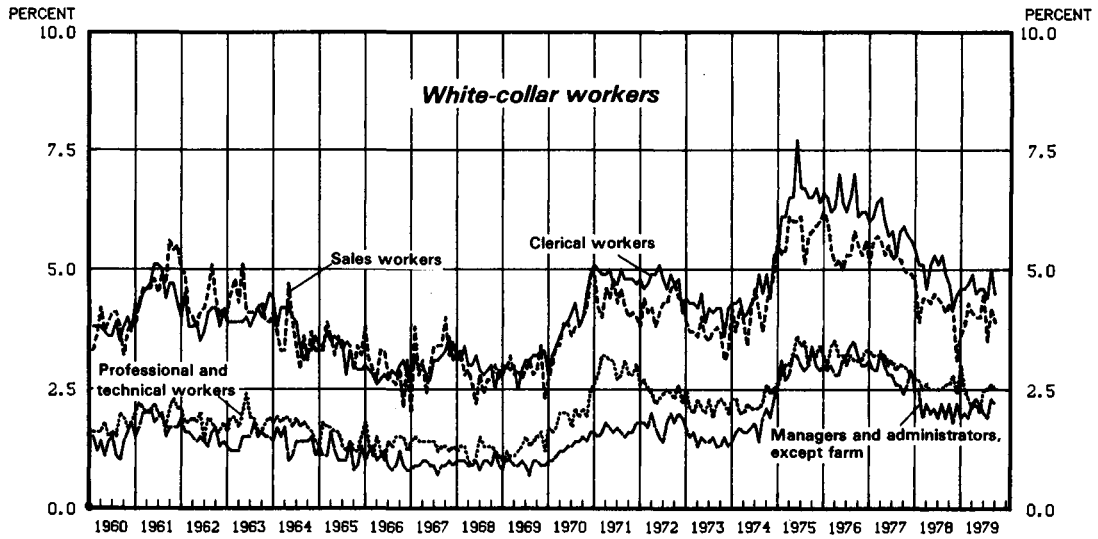


Ratio of black to white unemployment rate



SOURCE: Table A-35.

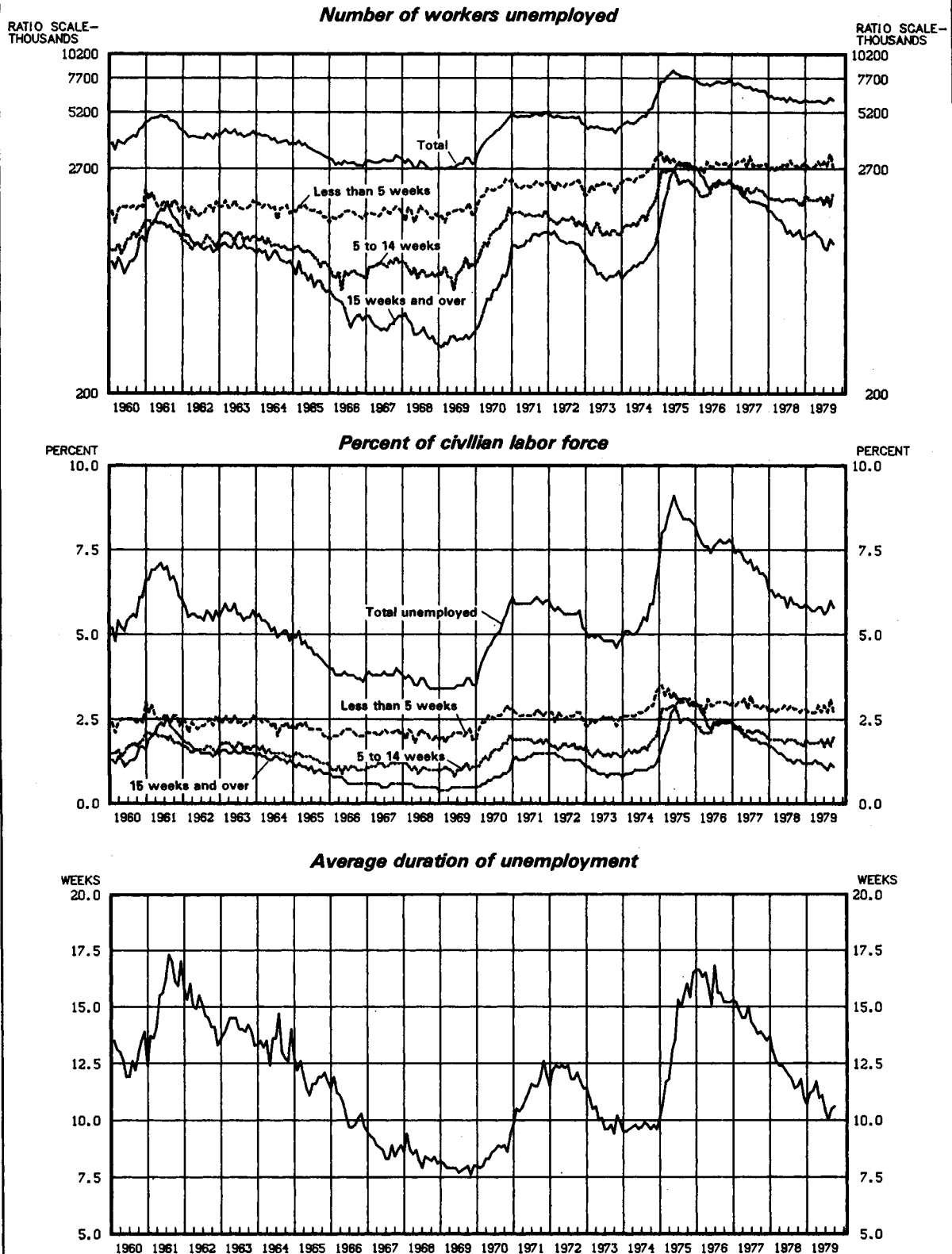
Chart 12. Unemployment rates by major occupational groups
(Seasonally adjusted)



SOURCE: Table A-36.

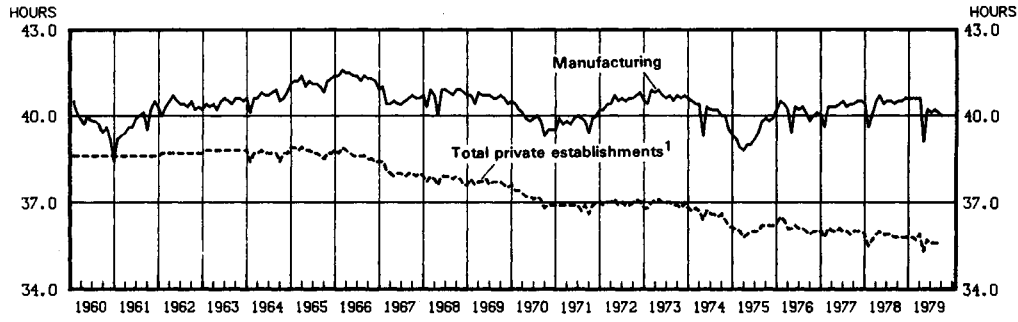
Chart 13. Duration of unemployment

(Seasonally adjusted)

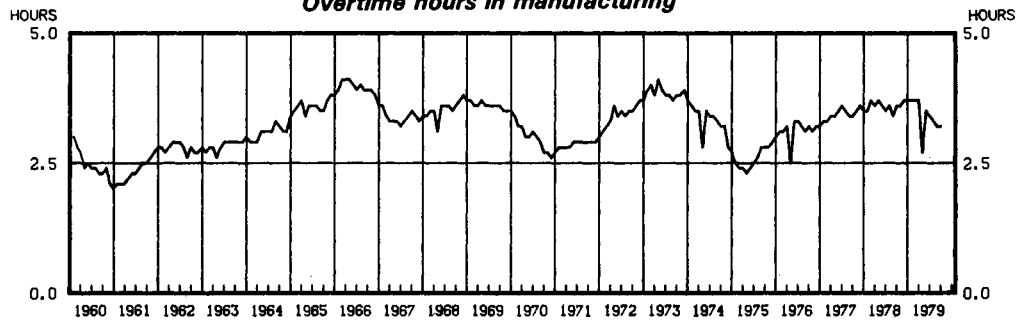


SOURCE: Table A-37.

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



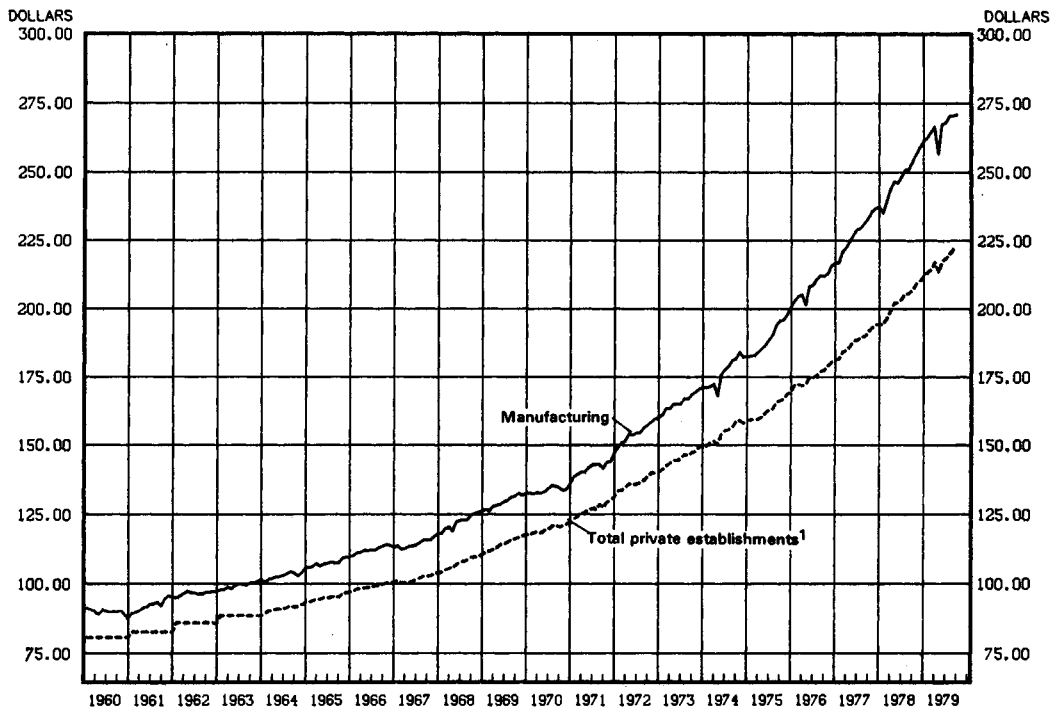
Overtime hours in manufacturing



¹Annual averages prior to 1964.
NOTE: Data for two most recent months are preliminary.

SOURCE: Table C-7.

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



¹Annual averages prior to 1964.
NOTE: Data for two most recent months are preliminary.

SOURCE: Tables C-7 and C-8.

Chart 16. Total private gross and spendable weekly earnings
(Seasonally adjusted)

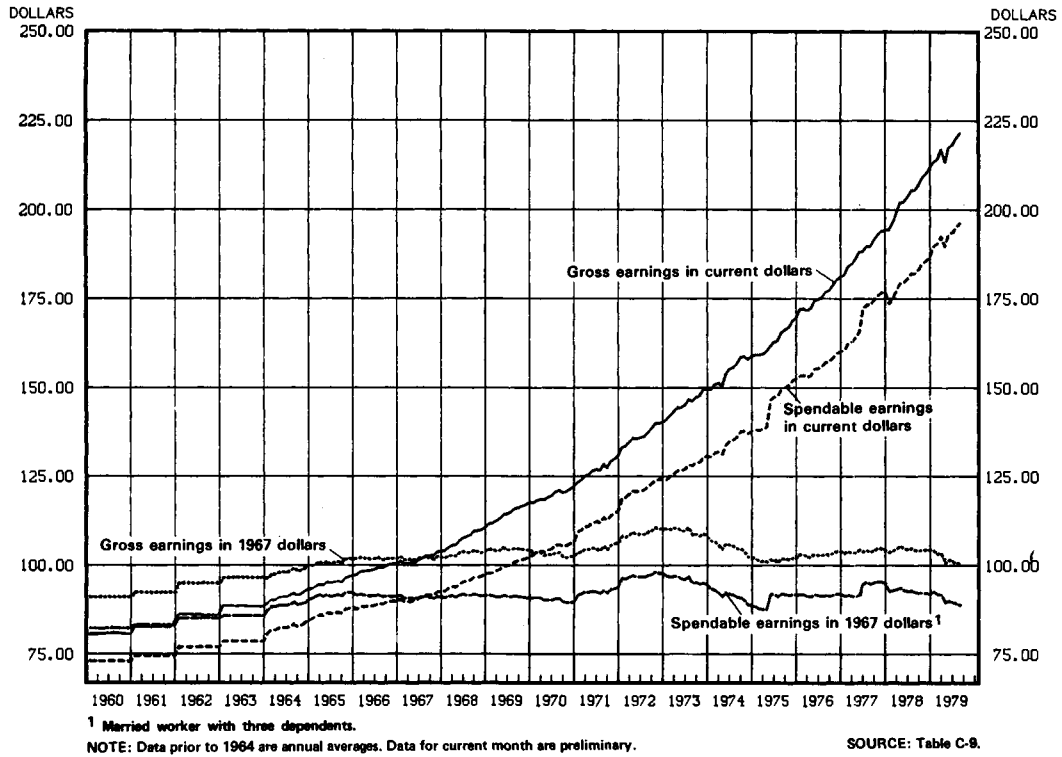
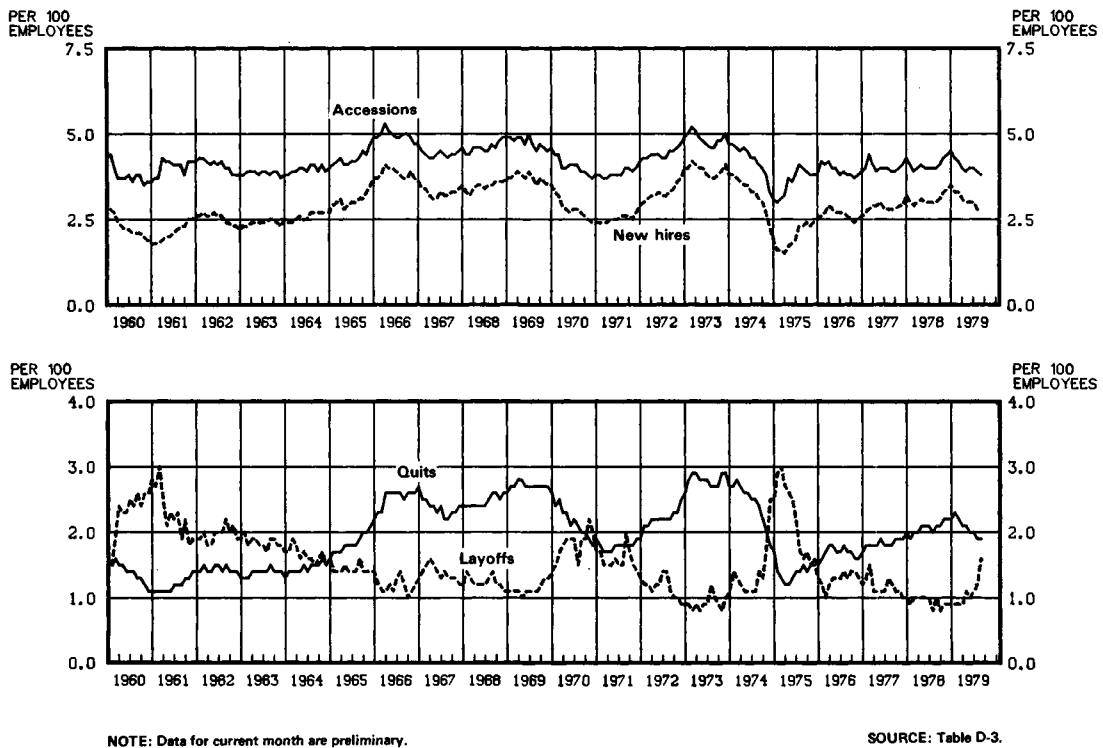


Chart 17. Labor turnover rates in manufacturing
(Seasonally adjusted)



**HOUSEHOLD DATA
HISTORICAL**

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

[Numbers in thousands]

Year and month	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
Annual averages										
TOTAL										
1947.....	103,418	60,941	58.9	59,350	57,038	7,890	49,148	2,311	3.9	42,477
1948.....	104,527	62,080	59.4	60,621	58,343	7,629	50,714	2,276	3.8	42,447
1949.....	105,611	62,903	59.6	61,286	57,651	7,658	49,993	3,637	5.9	42,708
1950.....	106,645	63,858	59.9	62,208	58,918	7,160	51,758	3,288	5.3	42,787
1951.....	107,721	65,117	60.4	62,017	59,961	6,726	53,235	2,055	3.3	42,604
1952.....	108,823	65,730	60.4	62,138	60,250	6,500	53,749	1,883	3.0	43,093
1953.....	110,601	66,560	60.2	63,015	61,179	6,260	54,919	1,834	2.9	44,041
1954.....	111,671	66,993	60.0	63,643	60,109	6,205	53,904	3,532	5.5	44,678
1955.....	112,732	68,072	60.4	65,023	62,170	6,450	55,722	2,852	4.4	44,660
1956.....	113,811	69,409	61.0	66,552	63,799	6,283	57,514	2,750	4.1	44,402
1957.....	115,065	69,729	60.6	66,929	64,071	5,947	58,123	2,859	4.3	45,336
1958.....	116,363	70,275	60.4	67,639	63,036	5,586	57,450	4,602	6.8	46,088
1959.....	117,881	70,921	60.2	68,369	64,630	5,565	59,065	3,740	5.5	46,960
1960 ¹	119,759	72,142	60.2	69,628	65,778	5,458	60,318	3,852	5.5	47,617
1961.....	121,343	73,031	60.2	70,459	65,746	5,200	60,546	4,714	6.7	48,312
1962 ¹	122,981	73,442	59.7	70,614	66,702	4,944	61,759	3,911	5.5	49,539
1963.....	125,154	74,571	59.6	71,833	67,762	4,687	63,076	4,070	5.7	50,583
1964.....	127,224	75,830	59.6	73,091	69,305	4,523	64,782	3,786	5.2	51,394
1965.....	129,236	77,178	59.7	74,455	71,088	4,361	66,726	3,366	4.5	52,058
1966.....	131,180	78,893	60.1	75,770	72,895	3,979	68,915	2,875	3.8	52,288
1967.....	133,319	80,793	60.6	77,347	74,372	3,844	70,527	2,975	3.8	52,527
1968.....	135,562	82,272	60.7	78,737	75,920	3,817	72,103	2,817	3.6	53,291
1969.....	137,841	84,240	61.1	80,734	77,902	3,606	74,296	2,832	3.5	53,602
1970.....	140,182	85,903	61.3	82,715	78,627	3,462	75,165	4,088	4.9	54,280
1971.....	142,596	86,929	61.0	84,113	79,120	3,387	75,732	4,993	5.9	55,666
1972 ¹	145,775	88,991	61.0	86,542	81,702	3,472	78,230	4,840	5.6	56,785
1973.....	148,263	91,040	61.4	88,714	84,409	3,452	80,957	4,304	4.9	57,222
1974.....	150,827	93,240	61.8	91,011	85,935	3,492	82,443	5,076	5.6	57,587
1975.....	153,449	94,793	61.8	92,613	84,783	3,380	81,403	7,830	8.5	58,655
1976.....	156,048	96,917	62.1	94,773	87,485	3,297	84,188	7,288	7.7	59,130
1977.....	158,559	99,534	62.8	97,401	90,546	3,244	87,302	6,855	7.0	59,025
1978 ¹	161,058	102,537	63.7	100,420	94,373	3,342	91,031	6,047	6.0	58,521
Monthly data, seasonally adjusted²										
1978:										
September	161,570	103,097	63.8	100,974	95,010	3,406	91,604	5,964	5.9	58,473
October..	161,829	103,199	63.8	101,077	95,241	3,374	91,867	5,836	5.8	58,630
November.	162,033	103,745	64.0	101,628	95,751	3,275	92,476	5,877	5.8	58,288
December.	162,250	103,975	64.1	101,867	95,855	3,387	92,468	6,012	5.9	58,275
1979:										
January..	162,448	104,277	64.2	102,183	96,300	3,232	93,068	5,883	5.8	58,170
February.	162,633	104,621	64.3	102,527	96,647	3,311	93,335	5,881	5.7	58,012
March....	162,909	104,804	64.3	102,714	96,842	3,343	93,499	5,871	5.7	58,105
April....	163,008	104,193	63.9	102,111	96,174	3,186	92,987	5,937	5.8	58,815
May.....	163,260	104,325	63.9	102,247	96,318	3,184	93,134	5,929	5.8	58,935
June.....	163,469	104,604	64.0	102,528	96,754	3,260	93,494	5,774	5.6	58,865
July.....	163,685	105,141	64.2	103,059	97,210	3,262	93,949	5,848	5.7	58,585
August... ¹	163,891	105,139	64.2	103,049	96,900	3,322	93,578	6,149	6.0	58,752
September	164,106	105,590	64.3	103,498	97,513	3,400	94,113	5,985	5.8	58,515

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

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

**HOUSEHOLD DATA
HISTORICAL**

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1967 to date

[Numbers in thousands]

Year, month, and sex	Total noninstitutional population	Total labor force		Civilian labor force						Not in labor force
		Number	Percent of population	Total	Employed			Unemployed		
					Total	Agriculture	Nonagricultural industries	Number	Percent of labor force	
MALES										
Annual averages										
1967.....	64,316	52,796	81.5	48,987	47,479	3,164	44,315	1,508	3.1	11,919
1968.....	65,745	53,070	81.2	49,533	48,114	3,157	44,957	1,419	2.9	12,315
1969.....	66,365	53,688	80.9	50,221	48,818	2,963	45,855	1,403	2.8	12,677
1970.....	67,409	54,343	80.6	51,195	48,960	2,861	46,099	2,235	4.4	13,066
1971.....	68,512	54,797	80.0	52,021	49,245	2,790	46,455	2,776	5.3	13,715
1972 ¹	69,364	55,671	79.7	53,265	50,630	2,839	47,791	2,635	4.9	14,193
1973 ¹	71,020	56,479	79.5	54,203	51,263	2,833	49,120	2,240	4.1	14,541
1974.....	72,253	57,749	79.4	55,136	52,518	2,900	49,618	2,668	4.8	14,904
1975.....	73,474	57,706	78.5	55,615	51,230	2,801	48,429	4,385	7.9	15,788
1976.....	74,733	56,197	78.1	56,359	52,391	2,716	49,675	3,968	7.0	16,341
1977.....	75,981	59,467	78.3	57,449	53,861	2,639	51,222	3,588	6.2	16,514
1978 ¹	77,169	60,635	78.4	58,542	55,491	2,681	52,810	3,051	5.2	16,634
Monthly data, seasonally adjusted²										
1978:										
September	77,407	60,557	78.2	58,559	55,594	2,739	52,855	2,965	5.1	16,855
October..	77,546	60,717	78.3	58,725	55,754	2,707	53,047	2,971	5.1	16,829
November.	77,643	61,006	78.6	59,019	56,096	2,614	53,482	2,923	5.0	16,636
December.	77,746	61,095	78.6	59,116	56,072	2,702	53,370	3,044	5.1	16,651
1979:										
January..	77,839	61,438	78.9	59,475	56,449	2,596	53,854	3,026	5.1	16,401
February.	77,926	61,501	78.9	59,538	56,549	2,649	53,900	2,989	5.0	16,425
March....	78,058	61,515	78.8	59,560	56,559	2,656	53,903	3,001	5.0	16,543
April....	78,195	61,215	78.4	59,268	56,267	2,559	53,708	3,001	5.1	16,890
May.....	78,225	61,206	78.2	59,262	56,352	2,583	53,769	2,910	4.9	17,019
June.....	78,323	61,387	78.4	59,446	56,638	2,609	54,029	2,808	4.7	16,936
July.....	78,427	61,535	78.5	59,597	56,595	2,609	53,986	2,997	5.0	16,892
August... ¹	78,525	61,342	78.1	59,296	56,316	2,658	53,658	3,081	5.2	17,183
September	78,677	61,696	78.5	59,749	56,653	2,700	53,953	3,096	5.2	16,930
FEMALES										
Annual averages										
1967.....	69,303	29,795	41.2	28,360	26,893	680	26,212	1,468	5.2	40,608
1968.....	70,217	29,242	41.6	29,204	27,807	660	27,147	1,397	4.8	40,976
1969.....	71,476	30,551	42.7	30,513	29,084	643	28,441	1,429	4.7	40,924
1970.....	72,774	31,560	43.4	31,520	29,667	601	29,066	1,853	5.9	41,214
1971.....	74,084	32,132	43.4	32,091	29,875	598	29,277	2,217	6.9	41,952
1972 ¹	75,911	33,320	43.9	33,277	31,072	633	30,439	2,205	6.0	42,591
1973 ¹	77,242	34,561	44.7	34,510	32,446	619	31,827	2,064	6.6	42,681
1974.....	78,575	35,892	45.7	35,825	33,417	592	32,825	2,408	6.7	42,683
1975.....	79,954	37,887	46.4	36,998	33,553	579	32,973	3,445	9.3	42,868
1976.....	81,309	38,520	47.4	38,414	35,095	582	34,513	3,320	8.6	42,789
1977.....	82,577	40,067	48.5	39,952	36,685	605	36,080	3,267	8.2	42,510
1978 ¹	83,890	42,002	50.1	41,878	38,982	661	38,221	2,996	7.2	41,887
Monthly data, seasonally adjusted²										
1978:										
September	84,162	42,545	50.6	42,415	39,416	667	38,749	2,999	7.1	41,618
October..	84,283	42,482	50.4	42,352	39,487	667	38,820	2,865	6.8	41,801
November.	84,390	42,738	50.6	42,609	39,655	661	38,994	2,954	6.9	41,652
December.	84,504	42,880	50.7	42,751	39,783	685	39,098	2,968	6.9	41,624
1979:										
January..	84,608	42,840	50.6	42,708	39,851	636	39,214	2,857	6.7	41,769
February.	84,737	43,121	50.9	42,989	40,099	663	39,435	2,891	6.7	41,587
March....	84,851	43,289	51.0	43,153	40,283	687	39,596	2,870	6.7	41,563
April....	84,903	42,978	50.6	42,843	39,907	627	39,279	2,936	6.9	41,925
May.....	85,035	43,121	50.7	42,986	39,966	601	39,365	3,019	7.0	41,914
June.....	85,145	43,217	50.8	43,082	40,116	651	39,465	2,966	6.9	41,929
July.....	85,259	43,606	51.1	43,467	40,615	653	39,962	2,852	6.6	41,653
August... ¹	85,366	43,798	51.3	43,653	40,585	665	39,920	3,068	7.0	41,569
September	85,479	43,894	51.4	43,749	40,860	700	40,160	2,889	6.6	41,585

¹ See footnote 1, table A-1.

² See footnote 2, table A-1.

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

[Numbers in thousands]

Sex, age, and race	September 1979										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
MALES											
16 years and over	61,531	78.3	59,583	56,878	2,705	4.5	17,096	372	4,191	1,633	10,899
16 to 21 years	8,589	67.6	7,952	6,887	1,065	13.4	4,119	16	3,558	33	512
16 to 19 years	5,053	60.0	4,788	4,044	745	15.6	3,369	12	3,007	14	336
16 to 17 years	2,053	49.4	2,035	1,722	314	15.4	2,103	8	1,969	7	118
18 to 19 years	3,000	70.3	2,753	2,322	431	15.7	1,266	3	1,038	7	218
20 to 64 years	54,499	90.0	52,816	50,928	1,888	3.6	6,048	163	1,176	1,168	3,543
20 to 24 years	8,992	87.5	8,242	7,584	658	8.0	1,288	12	882	60	334
25 to 54 years	38,309	94.7	37,378	36,305	1,072	2.9	2,148	80	283	626	1,162
25 to 29 years	8,689	95.5	8,326	8,004	322	3.9	412	6	170	46	189
30 to 34 years	7,861	96.2	7,610	7,403	208	2.7	314	5	60	76	173
35 to 39 years	6,388	96.5	6,197	6,021	176	2.8	230	12	24	65	128
40 to 44 years	5,314	95.5	5,226	5,088	138	2.6	248	8	14	107	119
45 to 49 years	5,037	93.3	5,006	4,890	116	2.3	361	31	9	131	190
50 to 54 years	5,020	89.6	5,013	4,899	114	2.3	584	17	5	200	362
55 to 64 years	7,198	73.4	7,196	7,039	157	2.2	2,611	70	11	482	2,047
55 to 59 years	4,470	83.3	4,469	4,367	102	2.3	896	36	6	245	608
60 to 64 years	2,727	61.4	2,727	2,672	55	2.0	1,716	34	5	238	1,439
65 years and over	1,979	20.5	1,979	1,907	72	3.7	7,679	198	8	451	7,021
65 to 69 years	1,124	29.6	1,124	1,065	59	5.2	2,678	69	4	151	2,454
70 years and over	855	14.6	855	842	13	1.6	5,000	129	4	300	4,567
White											
16 years and over	54,632	78.9	53,102	50,938	2,164	4.1	14,575	313	3,343	1,302	9,618
16 to 21 years	7,572	70.2	7,087	6,243	844	11.9	3,218	16	2,818	27	357
16 to 19 years	4,519	63.4	4,318	3,704	613	14.2	2,607	12	2,349	14	232
16 to 17 years	1,887	53.9	1,872	1,602	271	14.5	1,610	9	1,512	7	82
18 to 19 years	2,633	72.6	2,446	2,103	343	14.0	996	3	836	7	150
20 to 64 years	48,325	90.5	46,998	45,507	1,491	3.2	5,062	37	986	924	3,014
20 to 24 years	7,787	88.2	7,217	6,716	501	6.9	1,046	10	752	36	248
25 to 54 years	34,008	95.3	33,252	32,401	850	2.6	1,682	62	224	481	915
25 to 29 years	14,593	96.3	14,104	13,690	414	2.9	561	10	185	91	274
30 to 34 years	10,404	96.5	10,170	9,923	247	2.4	374	18	27	133	195
35 to 44 years	9,012	92.3	8,978	8,789	189	2.1	747	34	11	257	446
55 to 64 years	6,531	73.7	6,529	6,390	139	2.1	2,334	65	11	407	1,851
55 to 59 years	4,047	83.7	4,046	3,957	89	2.2	788	34	6	207	541
60 to 64 years	2,483	61.6	2,483	2,433	50	2.0	1,546	31	4	200	1,310
65 years and over	1,787	20.6	1,787	1,727	60	3.3	6,907	164	8	364	6,372
Black and other											
16 years and over	6,899	73.2	6,481	5,940	541	8.3	2,521	59	849	331	1,282
16 to 21 years	1,018	53.0	865	644	222	25.6	902	1	740	6	155
16 to 19 years	533	41.2	471	339	132	27.9	767	--	659	--	104
16 to 17 years	166	25.2	163	120	43	26.3	493	--	457	--	36
18 to 19 years	367	57.7	308	219	89	28.8	270	1	201	--	68
20 to 64 years	6,174	86.2	5,818	5,421	398	6.8	987	25	190	244	529
20 to 24 years	1,206	83.2	1,025	868	157	15.3	243	2	131	24	86
25 to 54 years	4,301	90.2	4,126	3,904	222	5.4	466	16	59	145	246
25 to 29 years	1,957	92.2	1,832	1,717	115	6.3	165	2	44	31	88
30 to 34 years	1,298	92.6	1,253	1,186	67	5.3	103	2	11	39	52
35 to 44 years	1,045	84.1	1,041	1,001	40	3.9	198	13	3	75	106
55 to 64 years	667	70.6	667	649	18	2.7	278	6	--	75	196
55 to 59 years	423	79.7	423	410	13	3.0	108	3	--	38	67
60 to 64 years	244	59.0	244	239	5	2.0	170	3	--	37	129
65 years and over	192	19.9	192	180	12	6.5	772	35	--	87	649

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

(Numbers in thousands)

Sex, age, and race	September 1979										
	Total labor force		Civilian labor force				Not in labor force				
	Number	Percent of population	Total	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
					Number	Percent of labor force					
FEMALES											
16 years and over	43,935	51.4	43,790	40,697	3,093	7.1	41,544	31,427	4,190	1,077	4,850
16 to 21 years	7,057	56.7	7,001	5,917	1,084	15.5	5,390	1,313	3,538	16	523
16 to 19 years	4,270	51.9	4,247	3,480	766	18.0	3,963	589	3,016	5	353
16 to 17 years	1,705	42.4	1,704	1,413	291	17.1	2,318	158	2,022	2	136
18 to 19 years	2,565	60.9	2,543	2,067	475	18.7	1,646	431	995	3	218
20 to 64 years	38,562	60.8	38,441	36,145	2,296	6.0	24,887	21,204	1,152	507	2,023
20 to 24 years	7,152	69.7	7,079	6,353	725	10.2	3,114	1,980	775	24	335
25 to 54 years	26,818	63.5	26,770	25,332	1,438	5.4	15,406	13,827	366	271	942
25 to 29 years	6,234	67.3	6,200	5,759	442	7.1	3,031	2,667	152	28	183
30 to 34 years	5,252	62.6	5,242	4,934	308	5.9	3,133	2,842	98	25	168
35 to 39 years	4,569	65.7	4,566	4,321	245	5.4	2,389	2,191	76	21	101
40 to 44 years	3,818	64.8	3,816	3,639	178	4.7	2,077	1,870	24	37	145
45 to 49 years	3,480	61.1	3,480	3,344	136	3.9	2,216	1,992	6	67	151
50 to 54 years	3,466	57.5	3,465	3,335	130	3.8	2,560	2,265	9	92	194
55 to 64 years	4,592	41.9	4,592	4,460	132	2.9	6,366	5,397	11	213	745
55 to 59 years	2,879	48.9	2,879	2,790	89	3.1	3,014	2,613	6	106	289
60 to 64 years	1,713	33.8	1,713	1,670	43	2.5	3,352	2,784	6	106	456
65 years and over	1,102	8.0	1,102	1,072	31	2.8	12,694	9,635	21	565	2,474
65 to 69 years	726	15.3	726	706	21	2.8	4,022	3,231	8	103	680
70 years and over	376	4.2	376	366	10	2.6	8,672	6,403	13	462	1,794
White											
16 years and over	38,020	51.1	37,909	35,543	2,367	6.2	36,394	28,137	3,318	799	4,140
16 to 21 years	6,238	59.5	6,195	5,382	814	13.1	4,238	1,039	2,801	11	388
16 to 19 years	3,822	55.3	3,804	3,210	595	15.6	3,094	467	2,355	5	267
16 to 17 years	1,551	46.0	1,550	1,320	229	14.8	1,817	125	1,583	2	106
18 to 19 years	2,272	64.0	2,255	1,889	366	16.2	1,278	342	772	2	161
20 to 64 years	33,232	60.4	33,139	31,396	1,743	5.3	21,766	18,795	943	338	1,690
20 to 24 years	6,132	70.7	6,076	5,577	499	8.2	2,544	1,625	650	15	254
25 to 54 years	22,995	63.0	22,958	21,824	1,134	4.9	13,487	12,255	282	174	774
25 to 29 years	9,699	64.2	9,666	9,098	568	5.9	5,406	4,909	186	40	271
30 to 34 years	7,223	65.0	7,220	6,878	342	4.7	3,888	3,553	84	37	214
35 to 44 years	6,073	59.2	6,072	5,848	224	3.7	4,192	3,794	13	97	288
55 to 64 years	4,104	41.7	4,104	3,995	109	2.7	5,736	4,914	10	149	662
55 to 59 years	2,571	48.8	2,571	2,500	71	2.8	2,702	2,363	5	73	262
60 to 64 years	1,533	33.6	1,533	1,495	38	2.5	3,033	2,551	6	77	400
65 years and over	966	7.7	966	937	29	3.0	11,534	8,876	20	456	2,182
Black and other											
16 years and over	5,915	53.5	5,881	5,154	726	12.4	5,150	3,290	872	278	710
16 to 21 years	819	41.5	806	535	271	33.6	1,152	274	737	5	136
16 to 19 years	448	34.0	442	271	171	38.8	869	122	661	--	86
16 to 17 years	155	23.6	154	93	62	39.9	501	34	438	--	29
18 to 19 years	293	44.3	288	178	110	38.2	368	89	223	--	57
20 to 64 years	5,331	63.1	5,302	4,749	554	10.4	3,121	2,410	209	169	332
20 to 24 years	1,020	64.1	1,003	776	226	22.5	570	355	125	9	81
25 to 54 years	3,824	66.6	3,813	3,508	305	8.0	1,920	1,572	84	97	168
25 to 29 years	1,787	70.2	1,776	1,594	182	10.2	757	600	64	13	80
30 to 34 years	1,164	66.8	1,163	1,082	81	6.9	578	508	16	21	32
35 to 44 years	873	59.9	873	831	42	4.8	585	463	3	63	58
55 to 64 years	488	43.6	488	465	23	4.6	630	483	1	63	83
55 to 59 years	307	49.7	307	290	17	5.6	312	250	1	34	27
60 to 64 years	180	36.1	180	175	5	2.9	318	233	--	30	56
65 years and over	136	10.5	136	134	1	1.0	1,160	758	1	109	292

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
MALES								
16 years and over	60,369	61,531	78.0	78.3	58,376	59,583	77.4	77.7
16 to 19 years	5,085	5,053	60.0	60.0	4,792	4,788	58.6	58.7
16 to 17 years	2,045	2,053	48.4	49.4	2,022	2,035	48.1	49.2
18 to 19 years	3,040	3,000	71.6	70.3	2,770	2,753	69.7	68.5
20 to 24 years	8,742	8,992	86.1	87.5	7,985	8,242	85.0	86.5
25 to 54 years	37,496	38,309	94.5	94.7	36,554	37,378	94.4	94.6
25 to 34 years	16,029	16,550	95.8	95.8	15,411	15,936	95.7	95.6
35 to 44 years	11,344	11,703	95.8	96.1	11,058	11,423	95.7	96.0
45 to 54 years	10,123	10,057	91.2	91.4	10,084	10,019	91.1	91.4
55 to 64 years	7,098	7,198	73.4	73.4	7,096	7,196	73.4	73.4
55 to 59 years	4,386	4,470	82.6	83.3	4,385	4,469	82.6	83.3
60 to 64 years	2,712	2,727	62.2	61.4	2,712	2,727	62.2	61.4
65 years and over	1,948	1,979	20.7	20.5	1,948	1,979	20.7	20.5
White								
16 years and over	53,736	54,632	78.7	78.9	52,135	53,102	78.2	78.5
16 to 19 years	4,562	4,519	63.5	63.4	4,331	4,318	62.3	62.4
16 to 17 years	1,885	1,887	52.8	53.9	1,866	1,872	52.6	53.8
18 to 19 years	2,678	2,633	74.0	72.6	2,465	2,446	72.4	71.1
20 to 24 years	7,633	7,787	87.2	88.2	7,042	7,217	86.3	87.3
25 to 54 years	33,340	34,008	95.1	95.3	32,563	33,252	94.9	95.2
25 to 34 years	14,163	14,593	96.2	96.3	13,660	14,104	96.1	96.2
35 to 44 years	10,098	10,404	96.3	96.5	9,858	10,170	96.2	96.5
45 to 54 years	9,080	9,012	91.9	92.3	9,045	8,978	91.9	92.3
55 to 64 years	6,457	6,531	73.8	73.7	6,456	6,529	73.8	73.7
55 to 59 years	3,987	4,047	83.3	83.7	3,985	4,046	83.3	83.7
60 to 64 years	2,471	2,483	62.3	61.6	2,471	2,483	62.3	61.6
65 years and over	1,743	1,787	20.5	20.6	1,743	1,787	20.5	20.6
Black and other								
16 years and over	6,633	6,899	72.5	73.2	6,241	6,481	71.3	72.0
16 to 19 years	523	533	40.7	41.2	461	471	37.7	38.2
16 to 17 years	160	166	24.4	25.2	156	163	23.9	24.9
18 to 19 years	363	367	57.7	57.7	304	308	53.4	53.3
20 to 24 years	1,109	1,206	78.9	83.2	943	1,025	76.1	80.8
25 to 54 years	4,156	4,301	90.3	90.2	3,992	4,126	89.9	89.9
25 to 34 years	1,867	1,957	92.7	92.2	1,751	1,832	92.2	91.8
35 to 44 years	1,246	1,298	91.4	92.6	1,201	1,253	91.1	92.4
45 to 54 years	1,044	1,045	85.1	84.1	1,040	1,041	85.0	84.0
55 to 64 years	641	667	69.7	70.6	640	667	69.7	70.6
55 to 59 years	399	423	76.4	79.7	399	423	76.4	79.7
60 to 64 years	241	244	60.9	59.0	241	244	60.9	59.0
65 years and over	205	192	22.0	19.9	205	192	22.0	19.9

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

Sex, age, and race	Total labor force				Civilian labor force			
	Thousands of persons		Participation rates		Thousands of persons		Participation rates	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
FEMALES								
16 years and over	42,591	43,935	50.6	51.4	42,462	43,790	50.5	51.3
16 to 19 years	4,344	4,270	52.4	51.9	4,323	4,247	52.3	51.7
16 to 17 years	1,800	1,705	44.0	42.4	1,799	1,704	44.0	42.4
18 to 19 years	2,544	2,565	60.6	60.9	2,525	2,543	60.4	60.7
20 to 24 years	7,063	7,152	69.6	69.7	6,995	7,079	69.4	69.4
25 to 54 years	25,562	26,818	61.7	63.5	25,521	26,770	61.6	63.5
25 to 34 years	10,844	11,486	63.4	65.1	10,807	11,442	63.3	65.0
35 to 44 years	7,818	8,387	62.6	65.3	7,815	8,383	62.6	65.2
45 to 54 years	6,900	6,946	58.2	59.3	6,899	6,945	58.2	59.3
55 to 64 years	4,517	4,592	41.8	41.9	4,517	4,592	41.8	41.9
55 to 59 years	2,851	2,879	48.8	48.9	2,851	2,879	48.8	48.9
60 to 64 years	1,665	1,713	33.5	33.8	1,665	1,713	33.5	33.8
65 years and over	1,106	1,102	8.2	8.0	1,106	1,102	8.2	8.0
White								
16 years and over	36,771	38,020	50.1	51.1	36,668	37,909	50.0	51.0
16 to 19 years	3,872	3,822	55.5	55.3	3,855	3,804	55.4	55.1
16 to 17 years	1,632	1,551	47.5	46.0	1,631	1,550	47.5	46.0
18 to 19 years	2,240	2,272	63.2	64.0	2,224	2,255	63.1	63.8
20 to 24 years	6,064	6,132	70.5	70.7	6,011	6,076	70.3	70.5
25 to 54 years	21,831	22,995	60.8	63.0	21,799	22,958	60.8	63.0
25 to 34 years	9,144	9,699	62.3	64.2	9,116	9,666	62.2	64.1
35 to 44 years	6,658	7,223	61.6	65.0	6,655	7,220	61.6	65.0
45 to 54 years	6,029	6,073	57.9	59.2	6,028	6,072	57.8	59.2
55 to 64 years	4,045	4,104	41.6	41.7	4,045	4,104	41.6	41.7
55 to 59 years	2,555	2,571	48.8	48.8	2,555	2,571	48.8	48.8
60 to 64 years	1,490	1,533	33.2	33.6	1,490	1,533	33.2	33.6
65 years and over	959	966	7.9	7.7	959	966	7.9	7.7
Black and other								
16 years and over	5,821	5,915	54.3	53.5	5,794	5,881	54.1	53.3
16 to 19 years	472	448	36.1	34.0	469	442	35.9	33.7
16 to 17 years	168	155	25.6	23.6	168	154	25.6	23.6
18 to 19 years	304	293	46.5	44.3	300	288	46.2	43.9
20 to 24 years	999	1,020	64.8	64.1	985	1,003	64.4	63.7
25 to 54 years	3,731	3,824	67.4	66.6	3,723	3,813	67.3	66.5
25 to 34 years	1,700	1,787	70.3	70.2	1,691	1,776	70.2	70.1
35 to 44 years	1,160	1,164	68.8	66.8	1,160	1,163	68.8	66.8
45 to 54 years	871	873	60.8	59.9	871	873	60.8	59.9
55 to 64 years	471	488	43.4	43.6	471	488	43.4	43.6
55 to 59 years	296	307	48.9	49.7	296	307	48.9	49.7
60 to 64 years	175	180	36.6	36.1	175	180	36.6	36.1
65 years and over	147	136	11.7	10.5	147	136	11.7	10.5

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

[Numbers in thousands]

Sex and age	September 1979						
	Civilian labor force						Not in labor force
	Total	Employed			Unemployed		
		Total	Agri- culture	Nonagri- cultural indus- tries	Number	Percent of labor force	
TOTAL							
16 years and over	10,437	9,272	268	9,004	1,166	11.2	6,655
16 to 19 years	758	473	22	451	285	37.6	1,458
16 to 17 years	256	158	6	152	99	38.5	892
18 to 19 years	502	316	17	299	186	37.1	566
20 to 24 years	1,746	1,383	25	1,358	362	20.8	690
25 to 54 years	6,647	6,172	160	6,012	475	7.1	1,995
25 to 34 years	3,002	2,728	61	2,667	274	9.1	732
35 to 44 years	2,051	1,918	51	1,867	133	6.5	573
45 to 54 years	1,595	1,527	48	1,479	69	4.3	690
55 to 64 years	991	959	26	932	33	3.3	823
55 to 59 years	615	589	10	579	26	4.2	384
60 to 64 years	377	370	17	353	7	1.8	440
65 years and over	294	284	34	250	11	3.6	1,687
Males							
16 years and over	5,453	4,958	239	4,719	495	9.1	2,204
16 to 19 years	386	263	20	243	123	31.9	677
16 to 17 years	129	87	6	81	43	33.3	442
18 to 19 years	257	178	16	162	80	31.1	235
20 to 24 years	879	728	25	703	150	17.1	204
25 to 54 years	3,453	3,257	139	3,117	197	5.7	407
25 to 34 years	1,520	1,417	56	1,361	103	6.8	129
35 to 44 years	1,061	999	42	957	62	5.8	94
45 to 54 years	874	842	42	801	32	3.7	183
55 to 64 years	567	552	21	529	17	3.0	259
55 to 59 years	357	344	10	335	12	3.4	105
60 to 64 years	212	207	13	195	4	1.9	155
65 years and over	166	157	32	126	10	6.0	655
Females							
16 years and over	4,984	4,314	29	4,285	671	13.5	4,451
16 to 19 years	372	210	2	208	162	43.7	781
16 to 17 years	127	71	--	71	56	44.0	450
18 to 19 years	245	138	1	137	106	43.5	331
20 to 24 years	867	655	--	655	212	24.5	486
25 to 54 years	3,194	2,915	21	2,895	278	8.7	1,588
25 to 34 years	1,482	1,311	5	1,306	171	11.5	603
35 to 44 years	990	919	9	910	71	7.2	479
45 to 54 years	721	685	6	678	37	5.1	507
55 to 64 years	424	407	5	403	16	3.8	564
55 to 59 years	258	245	--	244	14	5.2	279
60 to 64 years	165	163	4	158	3	1.6	285
65 years and over	128	127	2	124	1	1.0	1,032

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

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

(Numbers in thousands)

Employment status and race	Total		Males, 20 years and over		Females, 20 years and over		Both sexes, 18-19 years	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
TOTAL								
Total noninstitutional population	161,570	164,106	68,937	70,205	75,873	77,245	16,760	16,655
Total labor force	102,961	105,466	55,284	56,478	38,247	39,664	9,429	9,323
Percent of population	63.7	64.3	80.2	80.4	50.4	51.3	56.3	56.0
Civilian labor force	100,838	103,373	53,584	54,795	38,138	39,543	9,115	9,035
Employed	95,041	97,576	51,709	52,835	35,728	37,217	7,604	7,524
Agriculture	3,549	3,545	2,512	2,498	632	678	405	369
Nonagricultural industries	91,492	94,030	49,197	50,337	35,096	36,538	7,199	7,155
Unemployed	5,797	5,798	1,875	1,960	2,410	2,327	1,512	1,511
Percent of labor force	5.7	5.6	3.5	3.6	6.3	5.9	16.6	16.7
Not in labor force	58,609	58,640	13,652	13,727	37,626	37,581	7,331	7,332
White								
Total noninstitutional population	141,693	143,621	61,075	62,081	66,453	67,498	14,165	14,042
Total labor force	90,507	92,652	49,174	50,112	32,899	34,198	8,434	8,342
Percent of population	63.9	64.5	80.5	80.7	49.5	50.7	59.5	59.4
Civilian labor force	88,803	91,012	47,804	48,785	32,813	34,105	8,186	8,122
Employed	84,325	86,481	46,338	47,234	30,970	32,333	7,017	6,914
Agriculture	3,183	3,221	2,220	2,237	582	641	380	343
Nonagricultural industries	81,142	83,260	44,118	44,997	30,387	31,693	6,637	6,571
Unemployed	4,478	4,531	1,466	1,551	1,843	1,772	1,169	1,208
Percent of labor force	5.0	5.0	3.1	3.2	5.6	5.2	14.3	14.9
Not in labor force	51,187	50,969	11,901	11,969	33,554	33,300	5,731	5,701
Black and other								
Total noninstitutional population	19,876	20,484	7,862	8,124	9,419	9,747	2,595	2,613
Total labor force	12,454	12,814	6,111	6,366	5,348	5,467	995	981
Percent of population	62.7	62.6	77.7	78.4	56.8	56.1	38.3	37.6
Civilian labor force	12,035	12,362	5,780	6,010	5,325	5,438	929	913
Employed	10,716	11,094	5,371	5,601	4,759	4,883	587	610
Agriculture	366	324	292	261	50	38	24	26
Nonagricultural industries	10,350	10,770	5,079	5,340	4,709	4,846	563	584
Unemployed	1,318	1,267	409	410	567	555	342	303
Percent of labor force	11.0	10.3	7.1	6.8	10.6	10.2	36.9	33.2
Not in labor force	7,422	7,671	1,751	1,759	4,071	4,281	1,600	1,631

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

(Numbers in thousands)

Employment status	September 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
TOTAL									
Total noninstitutional population	25,156	12,709	12,447	21,265	10,789	10,476	3,890	1,920	1,971
Total labor force	15,646	8,589	7,057	13,810	7,572	6,238	1,836	1,018	819
Percent of population	62.2	67.6	56.7	64.9	70.2	59.5	47.2	53.0	41.5
Civilian labor force	14,953	7,952	7,001	13,282	7,087	6,195	1,671	865	806
Employed	12,803	6,887	5,917	11,625	6,243	5,382	1,178	644	535
Agriculture	557	464	92	516	426	90	41	38	3
Nonagricultural industries	12,247	6,423	5,824	11,109	5,817	5,292	1,138	605	532
Unemployed	2,150	1,065	1,084	1,657	844	814	492	222	271
Looking for full-time work	1,318	658	660	956	493	463	362	165	197
Looking for part-time work	831	407	424	701	351	350	130	56	74
Percent of labor force	14.4	13.4	15.5	12.5	11.9	13.1	29.5	25.6	33.6
Not in labor force	9,509	4,119	5,390	7,455	3,218	4,238	2,054	902	1,152
Major activity: going to school									
Civilian labor force	4,073	2,151	1,921	3,708	1,973	1,735	364	179	186
Employed	3,332	1,759	1,573	3,075	1,627	1,449	257	132	124
Agriculture	183	158	25	180	156	25	3	3	--
Nonagricultural industries	3,149	1,601	1,548	2,895	1,471	1,424	253	129	124
Unemployed	741	392	348	633	346	287	108	46	62
Looking for full-time work	48	23	25	38	19	19	10	4	6
Looking for part-time work	693	369	324	595	327	268	98	42	56
Percent of labor force	18.2	18.2	18.1	17.1	17.5	16.5	29.6	25.9	33.1
Not in labor force	7,095	3,558	3,538	5,618	2,818	2,801	1,477	740	737
Major activity: other									
Civilian labor force	10,881	5,801	5,080	9,574	5,114	4,460	1,306	686	620
Employed	9,472	5,128	4,344	8,550	4,617	3,933	922	511	411
Agriculture	374	306	67	336	271	65	38	35	2
Nonagricultural industries	9,098	4,822	4,276	8,214	4,346	3,868	884	476	408
Unemployed	1,409	673	736	1,025	498	527	384	175	209
Looking for full-time work	1,270	635	636	918	474	445	352	161	191
Looking for part-time work	139	38	100	106	24	82	32	14	18
Percent of labor force	12.9	11.6	14.5	10.7	9.7	11.8	29.4	25.5	33.8
Not in labor force	2,414	562	1,852	1,837	400	1,437	577	162	415

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

(Numbers in thousands)

Race, sex, and age	September 1979								
	Full-time labor force					Part-time labor force			
	Total	Employed		Unemployed (looking for full-time work)		Total	Employed on voluntary part time ¹	Unemployed (looking for part-time work)	
		Full-time schedules ¹	Part time for economic reasons	Number	Percent of full-time labor force			Number	Percent of part-time labor force
TOTAL									
Both sexes, 16 years and over.....	87,995	80,569	3,096	4,331	4.9	15,378	13,911	1,467	9.5
16 to 21 years.....	9,503	7,435	749	1,318	13.9	5,450	4,619	831	15.3
16 to 19 years.....	4,631	3,357	485	789	17.0	4,404	3,682	722	16.4
16 to 17 years.....	793	522	143	128	16.2	2,946	2,470	476	16.2
18 to 19 years.....	3,838	2,835	342	660	17.2	1,458	1,212	246	16.9
20 years and over.....	83,365	77,212	2,611	3,542	4.2	10,974	10,229	744	6.8
20 to 24 years.....	13,310	11,521	619	1,170	8.8	2,011	1,797	214	10.6
25 years and over.....	70,054	65,691	1,992	2,373	3.4	8,963	8,433	530	5.9
25 to 54 years.....	58,133	54,453	1,567	2,113	3.6	6,015	5,617	398	6.6
55 years and over.....	11,922	11,238	425	260	2.2	2,948	2,816	132	4.5
Males, 16 years and over.....	54,582	51,031	1,403	2,147	3.9	5,002	4,444	558	11.2
16 to 21 years.....	5,285	4,268	359	658	12.5	2,668	2,260	407	15.3
16 to 19 years.....	2,536	1,917	231	388	15.3	2,252	1,895	357	15.8
20 years and over.....	52,045	49,114	1,172	1,759	3.4	2,750	2,549	201	7.3
20 to 24 years.....	7,482	6,608	301	573	7.7	760	675	86	11.3
25 years and over.....	44,564	42,506	871	1,187	2.7	1,990	1,875	115	5.8
25 to 54 years.....	36,648	34,949	660	1,037	2.8	730	695	35	4.8
55 years and over.....	7,917	7,557	210	150	1.9	1,260	1,179	80	6.3
Females, 16 years and over.....	33,414	29,538	1,692	2,184	6.5	10,376	9,467	909	8.8
16 to 21 years.....	4,219	3,167	391	660	15.7	2,782	2,358	424	15.2
16 to 19 years.....	2,094	1,440	254	401	19.1	2,152	1,787	366	17.0
20 years and over.....	31,320	28,098	1,439	1,783	5.7	8,224	7,680	543	6.6
20 to 24 years.....	5,829	4,913	318	597	10.2	1,250	1,122	128	10.2
25 years and over.....	25,491	23,185	1,120	1,185	4.6	6,973	6,559	416	6.0
25 to 54 years.....	21,485	19,504	906	1,075	5.0	5,285	4,922	363	6.9
55 years and over.....	4,006	3,681	215	110	2.7	1,688	1,637	53	3.1
White									
Males, 16 years and over.....	48,628	45,766	1,176	1,686	3.5	4,475	3,996	478	10.7
16 to 21 years.....	4,664	3,860	311	493	10.6	2,423	2,072	351	14.5
16 to 19 years.....	2,265	1,765	192	309	13.6	2,052	1,748	305	14.8
20 years and over.....	46,362	44,002	984	1,377	3.0	2,422	2,249	174	7.2
20 to 24 years.....	6,532	5,852	257	424	6.5	684	607	77	11.3
25 years and over.....	39,830	38,150	727	954	2.4	1,738	1,641	96	5.5
25 to 54 years.....	32,646	31,275	551	820	2.5	606	575	30	5.0
55 years and over.....	7,184	6,875	176	133	1.9	1,133	1,067	66	5.8
Females, 16 years and over.....	28,457	25,514	1,357	1,586	5.6	9,452	8,671	781	8.3
16 to 21 years.....	3,665	2,872	330	463	12.6	2,530	2,180	350	13.8
16 to 19 years.....	1,838	1,330	211	296	16.1	1,967	1,668	299	15.2
20 years and over.....	26,620	24,184	1,146	1,290	4.8	7,485	7,003	482	6.4
20 to 24 years.....	4,941	4,295	259	387	7.8	1,136	1,023	112	9.9
25 years and over.....	21,680	19,889	888	903	4.2	6,350	5,980	369	5.8
25 to 54 years.....	18,068	16,536	721	811	4.5	4,890	4,568	323	6.6
55 years and over.....	3,612	3,353	167	92	2.5	1,460	1,412	47	3.2
Black and other									
Males, 16 years and over.....	5,954	5,264	228	462	7.8	527	448	79	15.1
16 to 21 years.....	621	408	48	165	26.6	244	188	56	23.0
16 to 19 years.....	271	152	39	79	29.3	200	148	52	26.1
20 years and over.....	5,683	5,112	188	382	6.7	327	300	27	8.3
20 to 24 years.....	949	756	44	149	15.7	76	67	8	11.1
25 years and over.....	4,734	4,356	144	234	4.9	252	233	19	7.5
25 to 54 years.....	4,001	3,674	109	217	5.4	126	121	5	4.0
55 years and over.....	733	682	35	16	2.2	126	113	14	11.1
Females, 16 years and over.....	4,956	4,024	335	598	12.1	924	796	128	13.9
16 to 21 years.....	553	296	60	197	35.6	252	179	74	29.2
16 to 19 years.....	257	110	42	105	40.9	186	119	67	35.9
20 years and over.....	4,700	3,914	293	493	10.5	739	677	62	8.4
20 to 24 years.....	888	618	59	210	23.7	115	99	16	13.7
25 years and over.....	3,812	3,296	233	283	7.4	624	578	45	7.2
25 to 54 years.....	3,418	2,968	186	264	7.7	394	354	40	10.2
55 years and over.....	394	328	48	18	4.6	230	225	5	2.2

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

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

[Numbers in thousands]

Family relationship	September 1979									
	Civilian labor force					Not in labor force				
	Total	Percent of population	Employed	Unemployed		Total	Keeping house	Going to school	Unable to work	Other reasons
				Number	Percent of labor force					
Total, 16 years and over	103,373	63.8	97,576	5,798	5.6	58,640	31,799	8,381	2,710	15,749
Husbands ¹	41,324	81.5	40,372	952	2.3	9,370	180	186	1,085	7,919
With employed wife	21,227	92.2	20,757	469	2.2	1,802	53	92	335	1,322
With unemployed wife	1,144	93.8	1,056	87	7.6	76	2	9	19	45
With wife not in labor force	17,273	71.3	16,925	348	2.0	6,966	99	54	656	6,158
Wives	24,248	50.0	23,029	1,219	5.0	24,241	21,991	295	276	1,680
With employed husband	21,814	56.3	20,757	1,056	4.8	16,927	15,766	254	102	805
With unemployed husband	556	61.5	469	87	15.6	348	329	7	5	6
With husband not in labor force	1,878	21.2	1,802	76	4.0	6,967	5,896	33	169	869
Relatives in husband-wife families	13,804	60.6	12,112	1,692	12.3	8,993	1,268	5,746	339	1,640
16-19 years	6,408	55.2	5,429	979	15.3	5,211	152	4,597	9	453
20-24 years	4,742	75.3	4,257	486	10.2	1,555	151	1,064	37	303
25 years and over	2,654	54.4	2,426	227	8.6	2,227	965	85	293	884
Women who head families	5,030	59.8	4,629	401	8.0	3,376	2,611	109	178	477
Relatives in female-headed families	4,049	55.0	3,400	648	16.0	3,315	818	1,420	266	811
16-19 years	1,304	47.7	972	332	25.5	1,433	91	1,181	10	152
20-24 years	1,281	73.2	1,075	208	16.2	467	96	202	25	146
25 years and over	1,464	50.9	1,353	108	7.4	1,415	631	37	231	513
Persons not living in families ²	14,918	61.5	14,034	886	5.9	9,345	4,931	625	566	3,222

¹ Includes a small number of single, separated, widowed, or divorced men who head families.

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

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

Marital status, sex, age, and race	Males				Females			
	Thousands of persons		Unemployment rates		Thousands of persons		Unemployment rates	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
Total, 16 years and over	2,588	2,705	4.4	4.5	3,209	3,093	7.6	7.1
Married, spouse present	875	951	2.2	2.3	1,444	1,278	6.1	5.2
Widowed, divorced, or separated	249	268	5.5	5.6	544	546	6.8	6.7
Single (never married)	1,464	1,487	10.7	10.4	1,221	1,269	11.5	11.4
White, 16 years and over	2,022	2,164	3.9	4.1	2,456	2,367	6.7	6.2
Married, spouse present	754	807	2.1	2.2	1,240	1,103	5.8	5.0
Widowed, divorced, or separated	179	198	4.9	5.2	395	404	6.2	6.2
Single (never married)	1,089	1,160	9.1	9.4	822	860	9.2	9.2
Black and other, 16 years and over	566	541	9.1	8.3	752	726	13.0	12.4
Married, spouse present	121	144	3.4	4.0	204	176	8.3	6.9
Widowed, divorced, or separated	70	70	7.8	7.5	149	142	9.4	9.1
Single (never married)	375	327	21.0	16.9	399	409	22.9	23.1
Total, 20 to 64 years of age	1,802	1,888	3.5	3.6	2,365	2,296	6.4	6.0
Married, spouse present	803	875	2.1	2.3	1,338	1,174	5.8	4.9
Widowed, divorced, or separated	228	247	5.3	5.5	506	515	6.9	6.9
Single (never married)	772	767	8.4	8.0	520	606	7.7	8.4
White, 20 to 64 years of age	1,407	1,491	3.1	3.2	1,806	1,743	5.7	5.3
Married, spouse present	692	736	2.0	2.1	1,141	1,007	5.5	4.7
Widowed, divorced, or separated	165	185	4.8	5.1	363	373	6.3	6.2
Single (never married)	550	571	7.0	7.0	302	363	5.6	6.2
Black and other, 20 to 64 years of age	396	398	7.1	6.8	559	554	10.8	10.4
Married, spouse present	111	139	3.3	4.0	198	168	8.3	6.8
Widowed, divorced, or separated	64	62	7.4	7.0	142	141	9.5	9.5
Single (never married)	222	196	16.8	13.5	217	244	16.7	18.2

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

Occupation	Thousands of persons		Unemployment rates					
			Total		Males		Females	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
Total, 16 years and over	5,797	5,798	5.7	5.6	4.4	4.5	7.6	7.1
White-collar workers	1,861	1,852	3.8	3.6	2.2	2.3	4.7	4.8
Professional and technical	444	448	3.0	2.9	1.8	1.9	4.6	4.1
Managers and administrators, except farm	220	239	2.1	2.2	1.8	1.8	3.1	3.2
Sales workers	245	229	4.0	3.6	2.6	2.5	5.8	5.0
Clerical workers	952	936	5.3	5.0	3.5	4.1	5.7	5.3
Blue-collar workers	1,998	2,118	5.9	6.1	5.1	5.4	9.1	9.2
Craft and kindred workers	514	463	3.9	3.4	3.8	3.3	(1)	(1)
Carpenters and other construction craft	263	206	6.3	4.8	6.2	4.8	15.3	4.1
All other	251	257	2.8	2.8	2.6	2.6	4.6	5.0
Operatives, except transport	862	993	7.3	8.3	5.3	6.7	10.1	10.5
Transport equipment operatives	150	185	4.0	4.8	3.8	4.9	6.0	3.4
Nonfarm laborers	472	477	9.0	9.2	9.2	9.5	7.8	7.1
Construction laborers	143	124	13.2	12.2	13.1	11.9	(1)	(1)
All other	329	353	7.9	8.5	8.0	8.8	7.4	6.2
Service workers	1,048	948	7.6	6.9	6.4	5.9	8.3	7.5
Private household	55	66	4.5	5.3	(1)	(1)	4.5	5.5
All other	993	882	7.9	7.1	6.4	6.0	8.9	7.9
Farm workers	110	114	3.6	3.8	2.6	3.2	7.7	6.3
No previous work experience	779	766	--	--	--	--	--	--
16 to 19 years	547	541	--	--	--	--	--	--
20 to 24 years	142	133	--	--	--	--	--	--
25 years and over	90	94	--	--	--	--	--	--

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

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

Industry	Percent distribution		Unemployment rates					
			Total		Males		Females	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
Total, 16 years and over	100.0	100.0	5.7	5.6	4.4	4.5	7.6	7.1
Nonagricultural private wage and salary workers	70.5	72.1	5.5	5.5	4.4	4.7	7.1	6.7
Mining	.6	.7	3.9	4.8	3.8	4.8	(1)	5.2
Construction	7.1	6.0	8.1	6.6	8.0	6.7	8.5	5.7
Manufacturing	18.7	22.3	4.8	5.6	3.3	4.5	8.1	7.9
Durable goods	10.0	11.7	4.4	4.9	3.1	4.4	8.1	6.3
Lumber and wood products	.8	.6	6.5	4.7	5.7	5.1	(1)	2.4
Furniture and fixtures	.5	.3	5.0	3.5	2.9	2.0	9.6	6.5
Stone, clay, and glass products	.6	.7	5.4	5.3	4.9	4.5	6.9	8.8
Primary metal industries	.6	1.1	2.6	4.8	2.1	4.8	6.8	5.2
Fabricated metal products	1.3	1.6	5.3	5.6	3.5	4.8	11.2	8.2
Machinery, except electrical equipment	1.4	1.6	3.2	3.4	2.4	3.5	6.4	3.0
Electrical equipment	2.1	1.8	5.5	4.5	3.0	3.7	8.8	5.4
Transportation equipment	1.2	2.5	3.0	6.3	2.7	5.4	4.5	10.4
Automobiles	.6	1.5	2.5	6.9	2.8	5.6	.8	12.4
Other transportation equipment	.6	1.0	3.7	5.5	2.5	5.1	10.0	7.4
Instruments and related products	.6	.7	5.3	6.3	2.0	4.8	9.6	8.3
Other durable goods industries	.9	.8	6.6	5.6	5.4	5.2	8.3	6.1
Nondurable goods	8.7	10.7	5.5	6.7	3.6	4.6	8.2	9.4
Food and kindred products	1.9	2.9	5.4	8.4	4.2	5.8	8.1	13.5
Textile mill products	1.1	.8	6.6	5.1	7.2	3.2	5.9	7.3
Apparel and other textile products	2.1	2.4	9.0	10.0	5.1	8.9	10.0	10.3
Paper and allied products	.5	.6	4.0	4.3	1.8	2.8	10.4	9.1
Printing and publishing	.9	1.2	3.7	4.7	3.3	4.0	4.2	5.6
Chemicals and allied products	.6	.9	2.6	4.2	1.1	3.4	7.2	6.4
Rubber and plastics products	1.0	1.1	8.3	7.9	4.6	6.2	13.9	10.9
Other nondurable goods industries	.6	.8	5.5	6.8	4.6	4.0	7.1	10.3
Transportation and public utilities	3.1	3.7	3.4	3.9	3.2	3.2	4.1	6.0
Railroads and railway express	.3	.2	2.7	1.4	2.5	1.5	(1)	(1)
Other transportation	2.0	2.5	4.6	5.5	4.5	4.6	5.4	8.9
Communication and other public utilities	.8	1.1	2.2	2.8	1.7	2.0	3.3	4.3
Wholesale and retail trade	20.2	19.7	6.5	6.1	4.9	4.9	8.2	7.6
Finance, insurance, and real estate	3.0	2.8	3.4	3.0	2.7	1.9	3.9	3.8
Service industries	17.7	16.8	6.1	5.7	5.0	5.0	6.8	6.1
Professional services	7.5	7.4	4.6	4.4	4.0	3.6	4.8	4.8
All other service industries	10.1	9.4	8.2	7.5	5.9	6.2	10.1	8.6
Agricultural wage and salary workers	2.1	2.5	7.4	8.7	5.6	7.4	14.2	14.0
All other classes of workers	14.0	12.3	3.3	2.8	2.4	2.1	4.5	3.7
No previous work experience	13.4	13.2	--	--	--	--	--	--

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

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

Reason for unemployment	Total unemployed		Males, 20 years and over		Females, 20 years and over		Both sexes, 16 to 19 years		White		Black and other	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
UNEMPLOYMENT LEVEL												
Total unemployed, in thousands.....	5,797	5,798	1,875	1,960	2,410	2,327	1,512	1,511	4,478	4,531	1,318	1,267
Job losers.....	1,975	2,180	980	1,129	704	729	291	322	1,533	1,702	443	478
On layoff.....	505	619	244	298	217	259	44	62	410	516	96	103
Other job losers.....	1,470	1,561	736	831	487	470	247	260	1,123	1,186	347	375
Job leavers.....	982	946	349	306	416	410	216	229	815	813	167	133
Reentrants.....	2,062	1,908	473	464	1,131	1,025	458	418	1,580	1,468	482	440
New entrants.....	778	765	72	61	160	162	546	541	551	548	227	217
PERCENT DISTRIBUTION												
Total unemployed.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers.....	34.1	37.6	52.3	57.6	29.2	31.3	19.3	21.3	34.2	37.6	33.6	37.7
On layoff.....	8.7	10.7	13.0	15.2	9.0	11.1	2.9	4.1	9.2	11.4	7.3	8.1
Other job losers.....	25.4	26.9	39.3	42.4	20.2	20.2	16.4	17.2	25.0	26.2	26.3	29.6
Job leavers.....	16.9	16.3	18.6	15.6	17.3	17.6	14.3	15.2	18.2	17.9	12.7	10.5
Reentrants.....	35.6	32.9	25.2	23.7	46.9	44.1	30.3	27.7	35.3	32.4	36.6	34.7
New entrants.....	13.4	13.2	3.8	3.1	6.6	7.0	36.1	35.8	12.3	12.1	17.2	17.1
UNEMPLOYMENT RATE												
Total unemployment rate.....	5.7	5.6	3.5	3.6	6.3	5.9	16.6	16.7	5.0	5.0	11.0	10.3
Job loser rate ¹	2.0	2.1	1.8	2.0	1.8	1.9	3.2	3.6	1.8	1.9	3.7	3.8
Job leaver rate ¹	1.0	.9	.6	.6	1.1	1.0	2.4	2.5	.9	.9	1.4	1.1
Reentrant rate ¹	2.0	1.8	.9	.8	3.0	2.6	5.0	4.6	1.8	1.6	4.0	3.6
New entrant rate ¹.....	.8	.7	.1	.1	.4	.4	6.0	6.0	.6	.6	1.9	1.8

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

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

[Percent distribution]

Reason, sex, and age	September 1979						
	Total unemployed		Duration of unemployment				
	Thousands of persons	Percent	Less than 5 weeks	5 to 14 weeks	15 weeks and over	15 to 26 weeks	27 weeks and over
Total, 16 years and over.....	5,798	100.0	52.7	30.5	16.8	8.7	8.1
Job losers.....	2,180	100.0	40.8	35.3	23.9	12.3	11.6
On layoff.....	619	100.0	53.5	33.1	13.5	8.5	5.0
Other job losers.....	1,561	100.0	35.8	36.2	28.1	13.8	14.2
Job leavers.....	946	100.0	57.0	28.9	14.2	8.0	6.2
Reentrants.....	1,908	100.0	61.8	26.5	11.7	5.9	5.8
New entrants.....	765	100.0	59.0	28.9	12.1	6.2	6.0
Males, 20 years and over.....	1,960	100.0	42.9	33.9	23.2	11.2	12.0
Job losers.....	1,129	100.0	37.6	35.3	27.1	13.9	13.1
On layoff.....	298	100.0	54.8	32.7	12.4	8.2	4.2
Other job losers.....	831	100.0	31.5	36.2	32.3	16.0	16.4
Job leavers.....	306	100.0	51.3	32.1	16.6	7.4	9.2
Reentrants.....	464	100.0	51.5	31.2	17.3	7.2	10.1
New entrants.....	61	100.0	(1)	(1)	(1)	(1)	(1)
Females, 20 years and over.....	2,327	100.0	53.4	29.7	16.8	9.3	7.5
Job losers.....	729	100.0	36.5	38.3	25.2	13.4	11.8
On layoff.....	259	100.0	48.9	34.8	16.3	10.2	6.1
Other job losers.....	470	100.0	29.7	40.2	30.1	15.1	15.0
Job leavers.....	410	100.0	55.1	27.0	17.9	11.3	6.6
Reentrants.....	1,025	100.0	63.0	25.1	11.9	6.5	5.4
New entrants.....	162	100.0	64.4	27.8	7.8	4.1	3.7
Both sexes, 16 to 19 years.....	1,511	100.0	64.4	27.3	8.3	4.5	3.8
Job losers.....	322	100.0	61.7	28.5	9.9	4.3	5.5
On layoff.....	62	100.0	(1)	(1)	(1)	(1)	(1)
Other job losers.....	260	100.0	60.6	28.8	10.6	4.7	5.9
Job leavers.....	229	100.0	67.8	28.0	4.1	2.7	1.4
Reentrants.....	418	100.0	70.0	24.9	5.1	3.3	1.8
New entrants.....	541	100.0	60.3	28.1	11.5	6.2	5.3

¹ Percent not shown where base is less than 75,800.

HOUSEHOLD DATA

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

Sex, age, and race	September 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	5,798	5,029	24.9	7.0	71.4	32.5	14.6	6.1	1.56
16 to 19 years	1,511	1,410	19.3	3.3	76.2	27.9	16.9	4.0	1.48
20 to 24 years	1,384	1,202	27.8	8.4	72.7	31.4	11.0	4.8	1.56
25 to 34 years	1,279	1,074	27.6	8.1	72.1	37.7	12.3	5.6	1.63
35 to 44 years	736	596	28.7	11.6	69.5	33.4	15.4	7.7	1.66
45 to 54 years	496	414	24.6	6.8	66.2	36.7	17.6	11.1	1.63
55 to 64 years	289	239	25.5	7.5	54.4	28.5	14.6	13.8	1.44
65 years and over	103	94	18.1	1.1	54.3	42.6	31.9	6.4	1.54
Males, 16 years and over	2,705	2,311	26.7	7.1	72.0	28.8	18.7	6.5	1.60
16 to 19 years	745	698	18.9	2.1	77.4	23.4	20.1	3.3	1.45
20 to 24 years	658	554	28.3	9.2	72.6	29.1	14.1	4.3	1.58
25 to 34 years	529	421	31.6	8.6	74.8	34.7	15.9	4.8	1.70
35 to 44 years	314	251	36.3	14.7	70.9	28.7	20.7	10.0	1.81
45 to 54 years	230	200	30.0	6.0	64.5	32.0	26.0	17.0	1.75
55 to 64 years	157	121	25.6	9.9	52.1	28.9	17.4	15.7	1.50
65 years and over	72	68	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Females, 16 years and over	3,093	2,717	23.4	6.9	71.0	35.7	11.0	5.7	1.54
16 to 19 years	766	712	19.7	4.2	75.1	32.3	13.8	4.8	1.50
20 to 24 years	725	649	27.1	7.7	72.7	33.3	8.3	5.1	1.54
25 to 34 years	750	654	25.1	7.8	70.0	39.6	9.9	6.1	1.59
35 to 44 years	423	346	22.8	9.2	68.2	36.7	11.8	6.1	1.55
45 to 54 years	266	214	19.6	7.5	67.3	41.6	9.8	5.6	1.51
55 to 64 years	132	118	25.4	5.1	56.8	28.0	11.9	11.9	1.39
65 years and over	31	25	(1)	(1)	(1)	(1)	(1)	(1)	(1)
White, 16 years and over	4,531	3,869	22.5	6.7	71.7	34.6	15.2	6.1	1.57
Males	2,164	1,836	24.7	6.7	73.1	30.2	19.1	7.0	1.61
Females	2,367	2,033	20.5	6.7	70.5	38.6	11.6	5.4	1.53
Black and other, 16 years and over	1,267	1,160	32.9	7.8	70.4	25.4	12.5	5.9	1.55
Males	541	476	34.2	8.6	67.6	23.3	17.4	4.8	1.56
Females	726	684	32.2	7.3	72.2	26.9	9.1	6.6	1.54

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

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

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

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

Sex and reason	September 1979								Average number of methods used
	Thousands of persons		Methods used as a percent of total jobseekers						
	Total unemployed	Total jobseekers	Public employment agency	Private employment agency	Employer directly	Placed or answered ads	Friends or relatives	Other	
Total, 16 years and over	5,798	5,029	24.9	7.0	71.4	32.5	14.6	6.1	1.56
Job losers	2,180	1,573	35.5	9.6	71.6	34.1	16.9	6.0	1.74
Job leavers	946	919	21.7	7.3	76.0	36.6	13.8	4.1	1.59
Reentrants	1,908	1,787	19.1	6.2	66.5	30.9	12.6	8.6	1.44
New entrants	765	750	20.3	3.1	76.9	28.1	15.1	2.4	1.46
Males, 16 years and over	2,705	2,311	26.7	7.1	72.0	28.8	18.7	6.5	1.60
Job losers	1,318	982	33.3	8.7	72.8	31.6	20.0	7.5	1.74
Job leavers	437	436	20.9	7.1	74.3	31.9	17.2	5.3	1.57
Reentrants	676	620	24.0	6.6	67.1	25.0	17.9	7.7	1.48
New entrants	275	274	17.5	2.2	76.3	22.3	18.6	2.6	1.39
Females, 16 years and over	3,093	2,717	23.4	6.9	71.0	35.7	11.0	5.7	1.54
Job losers	862	591	39.3	11.2	69.7	38.2	11.8	3.7	1.74
Job leavers	509	484	22.3	7.4	77.3	40.5	10.7	3.3	1.62
Reentrants	1,232	1,166	16.5	5.7	66.3	34.0	9.9	9.0	1.41
New entrants	490	476	21.8	3.8	77.3	31.5	13.0	2.3	1.50

NOTE: See note, table A-15.

A-17. Unemployed persons by duration of unemployment

Duration of unemployment	Total				Full-time workers			
	Thousands of persons		Percent distribution		Thousands of persons		Percent distribution	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
Total, 16 years and over	5,797	5,798	100.0	100.0	4,272	4,331	100.0	100.0
Less than 5 weeks	3,104	3,058	53.5	52.7	1,993	1,999	46.7	46.2
5 to 14 weeks	1,606	1,769	27.7	30.5	1,300	1,451	30.4	33.5
15 to 26 weeks	1,084	1,283	18.7	22.1	875	1,039	20.5	24.0
27 to 51 weeks	522	486	9.0	8.4	424	412	9.9	9.5
52 weeks and over	1,087	971	18.7	16.8	978	881	22.9	20.3
Average (mean) duration, in weeks	10.8	10.0	--	--	12.6	11.3	--	--
Median duration, in weeks	4.7	4.7	--	--	5.8	5.9	--	--

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

Sex, age, race, and marital status	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		15 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
	September 1979										
Total, 16 years and over	5,798	3,058	1,769	504	467	10.0	4.7	53.5	52.7	18.7	16.8
16 to 21 years	2,150	1,344	613	103	91	6.9	4.0	62.9	62.5	11.0	9.0
16 to 19 years	1,511	974	413	68	57	6.6	3.9	64.7	64.4	8.5	8.3
20 to 24 years	1,384	757	431	101	95	9.0	4.6	55.8	54.7	17.7	14.1
25 to 34 years	1,279	625	411	142	101	10.1	5.3	50.1	48.8	18.9	19.0
35 to 44 years	736	336	235	76	90	12.5	5.9	50.7	45.6	22.1	22.5
45 to 54 years	496	207	155	65	69	14.3	7.0	37.6	41.8	34.6	27.0
55 to 64 years	289	118	92	38	40	15.1	6.7	39.6	40.9	33.4	27.1
65 years and over	103	42	31	15	14	17.3	6.8	45.4	40.6	33.1	28.9
Males, 16 years and over	2,705	1,316	864	253	272	11.2	5.3	48.4	48.7	22.9	19.4
16 to 21 years	1,065	652	304	55	54	7.4	4.1	62.0	61.2	13.5	10.2
16 to 19 years	745	475	199	34	37	7.0	3.9	65.7	63.8	9.2	9.5
20 to 24 years	658	338	231	42	47	9.3	4.9	53.0	51.4	20.7	13.5
25 to 34 years	529	218	187	73	51	11.1	7.0	36.7	41.2	24.9	23.4
35 to 44 years	314	118	115	25	57	15.6	7.4	43.0	37.5	29.2	26.0
45 to 54 years	230	73	66	46	44	18.0	9.7	28.6	31.8	43.1	39.5
55 to 64 years	157	62	49	24	23	17.3	8.1	32.9	39.5	37.9	29.6
65 years and over	72	32	17	10	12	19.7	8.8	(1)	(1)	(1)	(1)
Females, 16 years and over	3,093	1,741	905	251	195	8.9	4.4	57.7	56.3	15.4	14.4
16 to 21 years	1,084	692	308	48	36	6.5	3.9	63.6	63.8	8.7	7.8
16 to 19 years	766	499	214	34	20	6.3	3.8	63.9	65.1	7.8	7.1
20 to 24 years	725	418	201	59	48	8.7	4.3	58.3	57.7	15.1	14.7
25 to 34 years	750	407	224	70	50	9.4	4.6	59.0	54.2	14.9	15.9
35 to 44 years	423	218	120	51	33	10.3	4.8	55.0	51.6	18.0	19.9
45 to 54 years	266	134	88	18	25	11.0	5.0	46.7	50.4	26.0	16.3
55 to 64 years	132	56	44	15	17	12.5	6.0	46.1	42.6	28.9	24.1
65 years and over	31	9	14	5	2	11.7	6.3	(1)	(1)	(1)	(1)
Whites, 16 years and over	4,531	2,494	1,314	393	330	9.3	4.5	55.1	55.0	17.8	15.9
Males	2,164	1,108	641	217	198	10.7	4.9	50.4	51.2	20.9	19.2
Females	2,367	1,386	673	176	131	8.1	4.3	59.0	58.6	15.3	13.0
Black and other, 16 years and over	1,267	564	455	112	137	12.2	6.1	48.3	44.5	21.8	19.6
Males	541	209	222	37	73	13.4	6.9	41.3	38.6	30.1	20.3
Females	726	355	233	75	64	11.2	5.2	53.5	48.9	15.7	19.1
Males, 16 years and over:											
Married, spouse present	951	412	301	108	130	13.4	6.6	39.4	43.3	30.8	25.0
Widowed, divorced, or separated	268	98	118	32	20	11.3	6.9	44.1	36.5	27.5	19.2
Single (never married)	1,487	807	444	113	122	9.8	4.6	54.5	54.3	17.4	15.9
Females, 16 years and over:											
Married, spouse present	1,278	740	365	93	80	8.4	4.3	57.6	57.9	16.1	13.5
Widowed, divorced, or separated	546	265	174	63	44	10.5	5.4	53.3	48.5	17.6	19.5
Single (never married)	1,269	736	366	96	71	8.7	4.3	59.7	58.0	13.6	13.2

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

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

Occupation and industry	Thousands of persons					Average (mean) duration, in weeks	Median duration, in weeks	Less than 5 weeks as a percent of unemployed in group		16 weeks and over as a percent of unemployed in group	
	Total	Less than 5 weeks	5 to 14 weeks	15 to 26 weeks	27 weeks and over			Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
	September 1979							Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
OCCUPATION											
White-collar workers	1,852	965	556	180	151	10.2	4.8	54.9	52.1	19.2	17.8
Professional and managerial	687	323	223	71	70	11.6	5.9	49.4	47.0	22.3	20.7
Sales workers	229	137	58	24	10	8.1	4.2	53.0	59.7	21.8	14.8
Clerical workers	936	505	276	84	71	9.7	4.6	59.2	54.0	16.3	16.6
Blue-collar workers	2,118	1,035	679	215	188	10.6	5.2	49.7	48.9	22.4	19.1
Craft and kindred workers	463	217	162	34	51	11.9	5.6	44.9	46.8	22.7	18.2
Operatives, except transport	993	473	318	120	81	10.7	5.6	49.8	47.7	23.4	20.3
Transport equipment operatives	185	97	48	13	26	12.2	4.8	50.0	52.6	21.5	21.2
Nonfarm laborers	477	248	150	48	31	8.7	4.8	54.8	52.0	20.3	16.5
Service workers	948	525	280	60	82	9.7	4.5	56.9	55.4	14.6	15.0
INDUSTRY¹											
Agriculture	143	100	36	7	--	4.5	3.6	66.2	70.3	6.5	4.3
Construction	368	181	123	28	37	9.9	5.2	55.1	49.1	17.4	17.5
Manufacturing	1,296	610	415	157	113	11.0	5.7	47.9	47.1	25.4	20.9
Durable goods	677	302	230	78	67	11.4	6.3	47.3	44.6	29.0	21.5
Nondurable goods	619	308	185	79	46	10.6	5.0	48.6	49.8	21.3	20.2
Transportation and public utilities	236	98	78	33	27	13.1	6.4	49.0	41.5	23.5	25.4
Wholesale and retail trade	1,157	589	364	117	88	9.7	4.9	55.3	50.9	18.8	17.7
Finance and service industries	1,504	863	429	99	113	9.4	4.4	55.3	57.4	15.2	14.1
Public administration	179	99	49	12	19	10.5	4.5	50.7	55.3	25.1	17.1
No previous work experience	766	451	223	47	46	8.6	4.2	54.8	58.8	15.4	12.1

¹ Includes wage and salary workers only.

A-20. Employed persons by sex and age

[In thousands]

Age and type of industry	Total		Males		Females	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
All industries	95,041	97,576	55,788	56,878	39,253	40,697
16 to 19 years	7,604	7,524	4,079	4,044	3,524	3,480
16 to 17 years	3,104	3,135	1,656	1,722	1,447	1,413
18 to 19 years	4,500	4,389	2,423	2,322	2,077	2,067
20 to 24 years	13,614	13,937	7,360	7,584	6,254	6,353
25 to 54 years	59,593	61,636	35,535	36,305	24,058	25,332
25 to 34 years	24,907	26,099	14,891	15,407	10,016	10,692
35 to 44 years	18,223	19,069	10,821	11,109	7,402	7,960
45 to 54 years	16,462	16,468	9,823	9,789	6,640	6,679
55 to 64 years	11,295	11,500	6,939	7,039	4,356	4,460
55 to 59 years	7,041	7,158	4,283	4,367	2,758	2,790
60 to 64 years	4,254	4,342	2,656	2,672	1,598	1,670
65 years and over	2,936	2,979	1,875	1,907	1,060	1,072
Nonagricultural industries	91,492	94,030	52,940	54,069	38,552	39,961
16 to 19 years	7,199	7,155	3,743	3,732	3,456	3,423
16 to 17 years	2,876	2,917	1,471	1,532	1,404	1,385
18 to 19 years	4,323	4,238	2,272	2,201	2,052	2,038
20 to 24 years	13,196	13,486	7,012	7,219	6,185	6,267
25 to 54 years	57,798	59,837	34,165	34,952	23,632	24,885
25 to 34 years	24,268	25,393	14,391	14,853	9,877	10,540
35 to 44 years	17,682	18,537	10,409	10,722	7,273	7,815
45 to 54 years	15,847	15,907	9,364	9,377	6,483	6,530
55 to 64 years	10,740	10,945	6,482	6,588	4,258	4,356
55 to 59 years	6,743	6,871	4,048	4,134	2,695	2,737
60 to 64 years	3,997	4,074	2,434	2,454	1,563	1,619
65 years and over	2,560	2,608	1,539	1,578	1,021	1,030
Agriculture	3,549	3,545	2,848	2,809	701	736
16 to 19 years	405	369	337	311	68	58
16 to 17 years	228	218	185	190	43	28
18 to 19 years	177	151	152	121	25	30
20 to 24 years	418	452	348	365	70	87
25 to 54 years	1,796	1,799	1,370	1,354	426	446
25 to 34 years	639	706	500	554	140	152
35 to 44 years	541	532	412	387	129	145
45 to 54 years	615	561	458	412	157	148
55 to 64 years	555	555	457	451	97	104
55 to 59 years	297	287	235	233	62	53
60 to 64 years	257	268	222	218	35	51
65 years and over	376	370	337	329	39	42

A-21. Employed persons by occupation, sex, and age
 (In thousands)

Occupation	Total		Males, 20 years and over		Females, 20 years and over		Males, 16-19 years		Females, 16-19 years	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
	TOTAL	95,041	97,576	51,709	52,835	35,728	37,217	4,079	4,044	3,524	3,480
White-collar workers	47,299	49,529	22,050	22,734	22,939	24,371	579	634	1,731	1,790
Professional and technical.....	14,204	15,108	8,090	8,492	5,980	6,470	66	78	68	69
Health workers.....	2,590	2,854	933	970	1,638	1,863	2	3	19	17
Teachers, except college.....	3,064	3,206	888	952	2,155	2,240	5	6	16	9
Other professional and technical.....	8,550	9,048	6,269	6,570	2,187	2,367	59	69	33	43
Managers and administrators, except farm.....	10,177	10,757	7,717	8,038	2,359	2,619	58	53	43	46
Salaried workers.....	8,373	8,963	6,311	6,638	1,965	2,231	54	47	43	47
Self-employed workers in retail trade.....	869	832	621	587	247	245	1	--	--	--
Self-employed workers, except retail trade.....	936	961	786	813	147	143	3	6	--	--
Sales workers.....	5,843	6,059	3,082	3,053	2,232	2,381	190	234	339	391
Retail trade.....	3,097	3,141	1,041	975	1,589	1,627	155	176	312	363
Other industries.....	2,746	2,918	2,041	2,078	643	754	35	58	28	28
Clerical workers.....	17,074	17,606	3,161	3,151	12,368	12,902	265	269	1,280	1,284
Stenographers, typists, and secretaries.....	4,723	4,769	66	61	4,287	4,385	2	4	369	318
Other clerical workers.....	12,351	12,837	3,095	3,090	8,081	8,517	263	265	911	966
Blue-collar workers	32,089	32,486	23,718	24,196	5,541	5,633	2,355	2,260	475	397
Craft and kindred workers.....	12,703	13,135	11,394	11,823	731	716	523	544	55	52
Carpenters.....	1,249	1,325	1,172	1,238	7	7	66	76	4	3
Construction craft, except carpenters.....	2,637	2,732	2,450	2,552	43	55	137	121	8	5
Mechanics and repairers.....	3,390	3,427	3,151	3,165	51	50	190	206	--	5
Metal craft.....	1,271	1,314	1,191	1,232	39	39	41	36	2	5
Blue-collar worker supervisors, not elsewhere classified.....	1,752	1,841	1,540	1,634	198	182	11	20	2	5
All other.....	2,403	2,495	1,891	2,001	394	381	78	84	41	29
Operatives, except transport.....	11,007	11,009	5,934	5,967	4,101	4,181	674	606	299	256
Durable goods manufacturing.....	4,984	4,964	3,061	2,983	1,578	1,699	242	193	104	90
Nondurable goods manufacturing.....	3,590	3,522	1,423	1,412	1,903	1,894	125	104	139	112
Other industries.....	2,433	2,523	1,449	1,572	621	589	306	308	57	54
Transport equipment operatives.....	3,606	3,655	3,165	3,169	261	303	165	172	14	11
Drivers, motor vehicles.....	3,060	3,083	2,646	2,633	252	283	148	155	15	12
All other.....	546	572	519	536	10	20	17	17	--	--
Nonfarm laborers.....	4,773	4,686	3,226	3,237	448	433	993	938	106	78
Construction.....	942	889	748	718	22	12	168	157	4	3
Manufacturing.....	1,164	1,034	858	742	161	153	128	120	17	19
Other industries.....	2,667	2,763	1,620	1,777	265	268	697	662	85	57
Service workers	12,668	12,704	3,780	3,839	6,760	6,705	856	918	1,272	1,243
Private household workers.....	1,163	1,170	14	18	938	944	13	13	198	196
Service workers, except private household.....	11,505	11,534	3,766	3,821	5,821	5,761	844	905	1,074	1,047
Food service workers.....	4,230	4,254	724	815	2,213	2,143	530	579	763	717
Protective service workers.....	1,370	1,403	1,222	1,244	118	125	27	28	3	6
All other.....	5,905	5,877	1,820	1,762	3,490	3,493	287	298	308	324
Farm workers	2,985	2,856	2,160	2,067	489	507	289	232	47	50
Farmers and farm managers.....	1,527	1,529	1,360	1,335	157	177	8	17	2	--
Farm laborers and supervisors.....	1,458	1,327	801	732	332	331	281	214	45	50
Paid workers.....	1,167	1,013	769	704	145	124	221	157	33	29
Unpaid family workers.....	291	314	32	29	187	207	60	58	12	21

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

(Percent distribution)

Occupation and race	Total		Males		Females	
	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
TOTAL						
Total, 18 years and over (thousands)	95,041	97,576	55,788	56,878	39,253	40,697
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	49.8	50.8	40.6	41.1	62.8	64.3
Professional and technical	14.9	15.5	14.6	15.1	15.4	16.1
Managers and administrators, except farm	10.7	11.0	13.9	14.2	6.1	6.5
Sales workers	6.1	6.2	5.9	5.8	6.5	6.8
Clerical workers	18.0	18.0	6.1	6.0	34.8	34.9
Blue-collar workers	33.8	33.3	46.7	46.5	15.3	14.8
Craft and kindred workers	13.4	13.5	21.4	21.7	2.0	1.9
Operatives, except transport	11.6	11.3	11.8	11.6	11.2	10.9
Transport equipment operatives	3.8	3.7	6.0	5.9	.7	.8
Nonfarm laborers	5.0	4.8	7.6	7.3	1.4	1.3
Service workers	13.3	13.0	8.3	8.4	20.5	19.5
Private household workers	1.2	1.2	(1)	.1	2.9	2.8
Other service workers	12.1	11.8	8.3	8.3	17.6	16.7
Farm workers	3.1	2.9	4.4	4.0	1.4	1.4
Farmers and farm managers	1.6	1.6	2.5	2.4	.4	.4
Farm laborers and supervisors	1.5	1.4	1.9	1.7	1.0	.9
White						
Total, 18 years and over (thousands)	84,325	86,481	50,113	50,938	34,212	35,543
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	51.4	52.4	42.1	42.7	65.1	66.2
Professional and technical	15.3	15.9	15.2	15.6	15.6	16.3
Managers and administrators, except farm	11.4	11.7	14.7	15.1	6.6	6.9
Sales workers	6.6	6.7	6.2	6.2	7.0	7.4
Clerical workers	18.1	18.1	6.0	5.9	35.8	35.6
Blue-collar workers	33.4	32.8	46.0	45.6	14.9	14.3
Craft and kindred workers	14.0	14.0	22.1	22.3	2.1	2.0
Operatives, except transport	11.1	10.7	11.4	11.1	10.6	10.3
Transport equipment operatives	3.6	3.6	5.6	5.6	.7	.8
Nonfarm laborers	4.7	4.4	6.9	6.7	1.4	1.2
Service workers	12.0	11.9	7.5	7.7	18.6	18.0
Private household workers	.9	.9	(1)	(1)	2.1	2.1
Other service workers	11.1	11.0	7.5	7.6	16.5	15.8
Farm workers	3.2	3.0	4.4	4.0	1.4	1.5
Farmers and farm managers	1.7	1.7	2.6	2.6	.5	.5
Farm laborers and supervisors	1.4	1.3	1.7	1.5	1.0	1.0
Black and other						
Total, 18 years and over (thousands)	10,716	11,094	5,675	5,940	5,041	5,154
Percent	100.0	100.0	100.0	100.0	100.0	100.0
White-collar workers	36.8	38.2	27.0	27.3	47.9	50.8
Professional and technical	11.8	12.3	9.9	10.7	13.9	14.1
Managers and administrators, except farm	5.3	5.5	7.3	6.9	3.0	3.8
Sales workers	3.0	2.7	2.6	2.4	3.3	3.0
Clerical workers	16.8	17.7	7.2	7.2	27.6	29.9
Blue-collar workers	36.8	37.5	53.2	54.3	18.3	18.2
Craft and kindred workers	8.4	9.6	14.7	17.0	1.3	1.1
Operatives, except transport	15.5	15.5	15.9	15.8	15.1	15.2
Transport equipment operatives	5.1	4.8	9.2	8.5	.6	.4
Nonfarm laborers	7.8	7.6	13.5	13.0	1.4	1.4
Service workers	23.5	21.8	15.2	14.4	32.8	30.4
Private household workers	3.8	3.5	.1	.1	8.0	7.3
Other service workers	19.7	18.4	15.1	14.3	24.9	23.1
Farm workers	2.9	2.4	4.6	4.0	1.0	.7
Farmers and farm managers	.5	.4	.9	.6	.1	(1)
Farm laborers and supervisors	2.4	2.1	3.7	3.3	.9	.6

¹ Less than 0.05 percent.

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

[In thousands]

Age and sex	September 1979								
	Nonagricultural industries					Agriculture			
	Wage and salary workers				Self employed	Unpaid family workers	Wage and salary workers	Self employed	Unpaid family workers
	Total	Private household workers	Government	Other					
Total, 16 years and over	86,955	1,344	15,373	70,239	6,629	446	1,501	1,710	335
16 to 19 years	7,054	267	445	6,341	70	31	249	41	79
16 to 17 years	2,870	204	146	2,520	27	19	143	28	47
18 to 19 years	4,183	63	299	3,821	43	12	105	13	32
20 to 24 years	13,130	117	1,460	11,552	336	20	309	120	23
25 to 34 years	23,733	181	4,485	19,066	1,585	75	361	290	55
35 to 44 years	16,827	123	3,594	13,110	1,581	130	189	295	48
45 to 54 years	14,358	224	3,030	11,103	1,442	107	155	339	67
55 to 64 years	9,804	244	2,009	7,550	1,089	52	142	369	43
65 to 69 years	6,163	126	1,238	4,799	670	38	77	187	23
70 to 74 years	3,641	118	772	2,751	419	14	65	183	21
75 years and over	2,051	187	348	1,515	526	32	95	256	19
Males, 16 years and over	49,286	208	7,635	41,443	4,736	48	1,214	1,505	89
16 to 19 years	3,669	73	201	3,395	45	18	212	42	58
16 to 17 years	1,501	55	83	1,363	19	12	124	28	38
18 to 19 years	2,168	19	117	2,032	26	6	88	13	20
20 to 24 years	6,985	28	601	6,356	225	9	249	102	14
25 to 34 years	13,761	22	2,234	11,505	1,085	6	286	260	8
35 to 44 years	9,577	5	1,761	7,811	1,144	1	142	244	--
45 to 54 years	8,334	18	1,594	6,722	1,040	3	121	286	6
55 to 64 years	5,789	26	1,041	4,721	798	2	115	335	1
65 to 69 years	3,652	12	646	2,994	481	1	65	168	--
70 to 74 years	2,137	14	396	1,727	317	1	50	166	1
75 years and over	1,171	36	203	932	399	8	89	237	2
Females, 16 years and over	37,669	1,136	7,738	28,796	1,893	398	286	204	246
16 to 19 years	3,385	194	245	2,947	25	12	37	--	21
16 to 17 years	1,370	149	63	1,158	8	7	20	--	9
18 to 19 years	2,015	44	182	1,789	17	5	17	--	13
20 to 24 years	6,145	89	859	5,196	111	11	61	17	9
25 to 34 years	9,972	159	2,251	7,561	500	69	75	30	47
35 to 44 years	7,249	117	1,833	5,299	437	129	47	50	48
45 to 54 years	6,024	207	1,436	4,381	402	104	34	53	61
55 to 64 years	4,015	218	968	2,829	291	50	27	35	42
65 to 69 years	2,511	114	592	1,805	189	37	12	18	23
70 to 74 years	1,504	105	376	1,024	102	13	15	16	20
75 years and over	880	152	145	583	127	23	6	19	17

A-24. Employed persons by industry and occupation

[In thousands]

Industry	September 1979											
	Total employed	White-collar workers				Blue-collar workers				Service workers		Farm workers
		Professional and technical workers	Managers and administrators, except farm	Sales workers	Clerical workers	Craft and kindred workers	Operatives, except transport	Transport equipment operatives	Nonfarm laborers	Private household workers	Other service workers	
Total, 16 years and over:	3,545	66	40	4	93	70	15	75	315	--	11	2,856
Agriculture	879	137	71	4	122	232	227	54	18	--	12	--
Mining	6,587	174	782	28	452	3,683	347	192	889	--	39	--
Construction	22,275	2,315	1,588	476	2,721	4,432	8,486	805	1,034	--	419	--
Manufacturing	13,468	1,592	924	179	1,582	2,930	4,964	410	647	--	241	--
Durable goods	8,806	723	663	297	1,139	1,502	3,522	395	387	--	178	--
Non-durable goods												
Transportation and public utilities	6,486	595	669	47	1,441	1,403	147	1,561	447	--	177	--
Wholesale and retail trade	19,551	398	3,813	4,051	3,395	1,539	977	664	1,160	--	-3,555	--
Wholesale trade	3,736	142	796	910	734	330	205	352	231	--	36	--
Retail trade	15,816	257	3,017	3,141	2,661	1,209	772	311	929	--	3,519	--
Finance, insurance, and real estate	5,807	335	1,192	1,254	2,561	96	12	19	80	--	257	--
Services	27,419	10,065	1,997	190	5,085	1,367	758	220	583	1,170	5,983	--
Private households	1,420	4	2	--	9	14	--	4	173	1,170	44	--
Other service industries	25,999	10,061	1,995	190	5,076	1,353	758	216	410	--	5,939	--
Public administration	5,026	1,022	605	5	1,737	313	42	63	159	--	1,080	--

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

(In thousands)

Reason not working	All Industries		Nonagricultural industries					
			Total		Wage and salary workers ¹			
	Sept. 1978				Sept. 1979		Paid absences ²		Unpaid absences^{2}
			Sept. 1978	Sept. 1979			Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979
Total, 16 years and over	4,609	4,559	4,464	4,467	2,353	2,357	1,670	1,656
Vacation	2,352	2,350	2,293	2,308	1,689	1,697	425	443
Illness	1,282	1,317	1,246	1,302	518	531	635	677
Bad weather	90	44	60	35	--	--	--	--
Industrial dispute	107	112	107	112	--	--	--	--
All other reasons	777	736	758	711	146	128	610	537
Males, 16 years and over	2,621	2,550	2,501	2,472	1,460	1,395	795	805
Vacation	1,389	1,370	1,343	1,333	1,061	1,038	199	198
Illness	705	722	676	711	306	295	307	350
All other reasons ³	527	458	483	428	92	61	289	257
Females, 16 years and over	1,988	2,008	1,962	1,995	894	962	875	851
Vacation	963	980	950	975	628	659	226	245
Illness	577	595	570	591	212	236	327	325
All other reasons ³	448	433	442	429	54	67	322	281

¹ Excludes private household.

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

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

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

Hours of work	September 1979					
	Thousands of persons			Percent distribution		
	All industries	Nonagri-cultural industries	Agricul-ture	All industries	Nonagri-cultural industries	Agricul-ture
Total, 16 years and over	93,017	89,563	3,454	100.0	100.0	100.0
1-34 hours	21,035	20,068	967	22.6	22.4	28.0
1-4 hours	690	648	42	.7	.7	1.2
5-14 hours	4,056	3,843	212	4.4	4.3	6.1
15-29 hours	10,455	9,964	491	11.2	11.1	14.2
30-34 hours	5,834	5,613	222	6.3	6.3	6.4
35 hours and over	71,983	69,494	2,487	77.4	77.6	72.0
35-39 hours	6,608	6,476	132	7.1	7.2	3.8
40 hours	38,605	38,093	512	41.5	42.5	14.8
41 hours and over	26,770	24,925	1,843	28.8	27.8	53.4
41 to 48 hours	10,299	10,023	275	11.1	11.2	8.0
48 to 59 hours	9,129	8,707	422	9.8	9.7	12.2
60 hours and over	7,342	6,195	1,146	7.9	6.9	33.2
Average hours, total at work	39.5	39.1	47.0	--	--	--
Average hours, workers on full-time schedules	43.7	43.2	55.5	--	--	--

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

[Numbers in thousands]

Reason for working less than 35 hours	September 1979					
	All industries			Nonagricultural industries		
	Total	Usually work full time	Usually work part time	Total	Usually work full time	Usually work part time
Total, 18 years and over	21,035	6,184	14,850	20,068	5,899	14,169
Economic reasons	3,096	1,307	1,789	2,873	1,190	1,683
Sleak work	1,437	871	566	1,289	778	511
Material shortages or repairs to plant and equipment	115	115	--	108	108	--
New job started during week	214	214	--	209	209	--
Job terminated during week	106	106	--	95	95	--
Could find only part-time work	1,223	--	1,223	1,172	--	1,172
Other reasons	17,940	4,878	13,062	17,195	4,709	12,486
Does not want, or unavailable for, full-time work	10,665	--	10,665	10,225	--	10,225
Vacation	978	978	--	963	963	--
Illness	1,695	1,480	215	1,641	1,452	189
Bad weather	594	594	--	544	544	--
Industrial dispute	48	48	--	48	48	--
Legal or religious holiday	194	194	--	189	189	--
Full time for this job	1,575	--	1,575	1,508	--	1,508
All other reasons	2,190	1,583	607	2,078	1,513	565
Average hours:						
Economic reasons	21.7	23.7	20.3	21.8	23.8	20.4
Other reasons	20.8	26.3	18.7	20.9	26.4	18.8
Worked 30 to 34 hours:						
Economic reasons	983	561	422	913	511	402
Other reasons	4,851	2,643	2,208	4,700	2,576	2,124

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

[Numbers in thousands]

Industry	September 1979								Average hours, total at work	Average hours, workers on full-time schedules
	Full- or part-time status									
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules						
				Total	40 hours or less	41 to 48 hours	49 hours or more			
Total, 18 years and over ¹	89,563	2,873	12,486	74,204	49,279	10,023	14,902	39.1	43.2	
Wage and salary workers	82,894	2,539	11,363	68,992	47,090	9,427	12,475	38.9	42.8	
Construction	5,164	251	269	4,644	3,180	576	888	40.3	42.5	
Manufacturing	20,767	447	731	19,589	13,188	3,200	3,201	41.4	42.6	
Durable goods	12,548	180	304	12,064	8,181	2,011	1,872	41.6	42.4	
Nondurable goods	8,219	267	427	7,525	5,008	1,189	1,328	41.1	42.9	
Transportation and public utilities	5,804	151	402	5,251	3,384	697	1,170	41.9	44.0	
Wholesale and retail trade	16,866	725	4,301	11,840	7,317	1,945	2,578	36.5	43.5	
Finance, insurance, and real estate	5,128	71	512	4,545	3,351	556	638	39.0	41.6	
Service industries	23,616	838	4,874	17,904	12,929	1,892	3,083	36.6	42.4	
Private households	1,296	161	737	398	274	42	82	22.5	44.0	
All other industries	22,320	677	4,137	17,506	12,655	1,850	3,001	37.4	42.4	
Public administration	4,740	42	251	4,447	3,300	448	699	41.1	42.6	
Self-employed workers	6,223	325	967	4,931	2,032	574	2,325	42.9	49.3	
Unpaid family workers	446	8	156	282	158	22	102	38.2	47.8	

¹ Includes mining, not shown separately.

HOUSEHOLD DATA

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

[Numbers in thousands]

Sex, age, race, and marital status	September 1979							
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules			Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 hours or more		
TOTAL								
Both sexes, 16 years and over	89,563	2,873	12,486	74,204	49,279	24,925	39.1	43.2
16 to 21 years	11,859	688	4,277	6,894	5,120	1,774	31.4	41.3
16 to 19 years	6,947	445	3,403	3,099	2,360	739	27.5	40.6
16 to 17 years	2,835	125	2,280	430	364	66	19.3	37.8
18 to 19 years	4,112	320	1,123	2,669	1,996	673	33.2	41.0
20 years and over	82,616	2,427	9,083	71,106	46,920	24,186	40.1	43.4
20 to 24 years	13,014	575	1,674	10,765	7,735	3,030	38.2	42.0
25 years and over	69,602	1,852	7,409	60,341	39,185	21,156	40.5	43.6
25 to 44 years	42,022	1,100	3,721	37,201	23,649	13,552	41.1	43.7
45 to 64 years	25,172	648	2,557	21,967	14,719	7,248	40.5	43.4
65 years and over	2,406	103	1,131	1,172	815	357	29.6	43.0
Males, 16 years and over	51,597	1,235	3,826	46,536	27,426	19,110	42.2	44.7
16 to 21 years	6,240	303	2,032	3,905	2,651	1,254	33.1	42.2
16 to 19 years	3,631	193	1,695	1,743	1,218	525	28.9	41.3
16 to 17 years	1,491	41	1,203	247	204	43	20.1	38.2
18 to 19 years	2,140	152	492	1,496	1,015	481	35.1	41.8
20 years and over	47,966	1,042	2,131	44,793	26,209	18,584	43.2	44.9
20 to 24 years	7,002	264	630	6,108	3,968	2,140	40.3	43.3
25 years and over	40,964	778	1,501	38,685	22,242	16,443	43.8	45.1
25 to 44 years	24,569	461	471	23,637	13,127	10,510	44.5	45.4
45 to 64 years	14,935	262	434	14,239	8,572	5,667	43.8	44.8
65 years and over	1,460	54	596	810	544	266	31.3	43.6
Females, 16 years and over	37,966	1,638	8,661	27,667	21,851	5,816	34.9	40.7
16 to 21 years	5,619	384	2,245	2,990	2,472	518	29.4	40.0
16 to 19 years	3,316	252	1,708	1,356	1,143	213	26.0	39.6
16 to 17 years	1,344	83	1,077	184	162	22	18.3	37.2
18 to 19 years	1,972	168	631	1,173	981	192	31.2	40.0
20 years and over	34,650	1,387	6,952	26,311	20,709	5,602	35.8	40.8
20 to 24 years	6,012	311	1,044	4,657	3,767	890	35.7	40.2
25 years and over	28,637	1,076	5,908	21,653	16,940	4,713	35.8	40.9
25 to 44 years	17,453	640	3,250	13,563	10,520	3,043	36.4	41.0
45 to 64 years	10,239	386	2,124	7,729	6,150	1,579	35.8	40.7
65 years and over	946	50	535	361	270	91	26.8	41.9
RACE								
White	79,428	2,357	11,406	65,665	42,449	23,216	39.3	43.5
Males	46,246	1,045	3,450	41,751	23,811	17,940	42.5	45.0
Females	33,182	1,312	7,956	23,914	18,638	5,276	34.8	40.8
Black and other	10,136	515	1,080	8,541	6,831	1,710	37.8	41.2
Males	5,352	190	376	4,786	3,616	1,170	39.7	42.1
Females	4,784	326	705	3,753	3,212	541	35.7	40.1
MARITAL STATUS								
Males, 16 years and over:								
Married, spouse present	35,910	605	1,111	34,194	19,360	14,834	44.0	45.2
Widowed, divorced, or separated	4,040	156	222	3,662	2,136	1,526	42.7	45.0
Single (never married)	11,647	474	2,492	8,681	5,933	2,748	36.5	42.7
Females, 16 years and over:								
Married, spouse present	21,486	813	5,115	15,558	12,315	3,243	35.0	40.7
Widowed, divorced, or separated	7,116	347	1,059	5,710	4,417	1,293	36.9	41.0
Single (never married)	9,364	476	2,487	6,401	5,122	1,279	33.3	40.5

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

[Numbers in thousands]

Occupational group and sex	September 1979								
	Total at work	On part time for economic reasons	On voluntary part time	On full-time schedules				Average hours, total at work	Average hours, workers on full-time schedules
				Total	40 hours or less	41 to 48 hours	49 hours or more		
Total, 16 years and over	90,229	2,920	12,601	74,708	49,529	10,086	15,093	39.2	40.5
White-collar workers	47,305	923	6,398	39,984	26,190	5,073	8,721	39.8	43.5
Professional and technical	14,411	201	1,443	12,767	8,325	1,551	2,891	40.7	43.6
Managers and administrators, except farm	10,290	79	472	9,739	4,488	1,456	3,795	46.2	47.7
Sales workers	5,802	202	1,428	4,172	2,467	567	1,138	37.1	44.2
Clerical workers	16,802	442	3,055	13,305	10,908	1,499	898	36.0	40.3
Blue-collar workers	30,800	1,222	2,225	27,353	17,869	4,280	5,204	40.6	43.1
Craft and kindred workers	12,490	362	480	11,648	7,291	1,903	2,454	42.1	43.6
Operatives, except transport	10,382	439	584	9,359	6,662	1,456	1,241	39.9	41.9
Transport equipment operatives	3,462	145	274	3,043	1,563	464	1,016	43.3	46.3
Nonfarm laborers	4,466	276	887	3,303	2,353	456	494	35.8	42.1
Service workers	12,124	775	3,978	7,371	5,470	733	1,168	33.0	42.3
Private household	1,125	124	613	388	269	36	83	23.9	43.5
Other service workers	10,999	651	3,365	6,983	5,202	696	1,085	33.9	42.2
Males, 16 years and over	52,092	1,265	3,897	46,930	27,613	6,982	12,335	42.2	42.3
White-collar workers	22,408	233	1,336	20,839	11,115	2,930	6,794	44.2	46.1
Professional and technical	8,231	79	418	7,734	4,574	950	2,210	43.4	45.1
Managers and administrators, except farm	7,758	55	190	7,513	3,143	1,095	3,275	47.8	48.6
Sales workers	3,162	39	331	2,792	1,434	420	938	42.6	45.8
Clerical workers	3,257	60	396	2,801	1,963	466	372	39.1	42.4
Blue-collar workers	25,137	877	1,586	22,674	14,188	3,672	4,814	41.3	43.7
Craft and kindred workers	11,766	331	377	11,058	6,859	1,829	2,370	42.3	43.7
Operatives, except transport	6,239	187	290	5,762	3,768	982	1,012	41.4	43.0
Transport equipment operatives	3,159	117	153	2,889	1,466	441	982	44.2	46.4
Nonfarm laborers	3,972	242	767	2,963	2,093	421	449	35.9	42.1
Service workers	4,547	155	975	3,417	2,310	380	727	37.6	44.0
Private household	31	4	17	10	5	2	3	23.7	52.0
Other service workers	4,516	151	958	3,407	2,305	378	724	37.7	43.9
Females, 16 years and over	38,137	1,656	8,704	27,777	21,915	3,102	2,760	35.0	37.6
White-collar workers	24,897	691	5,062	19,144	15,075	2,143	1,926	35.9	40.7
Professional and technical	6,180	122	1,025	5,033	3,750	602	681	37.1	41.3
Managers and administrators, except farm	2,532	25	283	2,224	1,344	361	519	41.5	44.3
Sales workers	2,640	162	1,096	1,382	1,034	147	201	30.6	41.1
Clerical workers	13,545	382	2,659	10,504	8,945	1,034	525	35.3	39.7
Blue-collar workers	5,663	345	639	4,679	3,680	607	392	37.2	40.5
Craft and kindred workers	724	31	103	590	430	75	85	37.9	41.9
Operatives, except transport	4,143	252	295	3,596	2,893	474	229	37.7	40.0
Transport equipment operatives	303	27	121	155	98	23	34	33.4	43.9
Nonfarm laborers	494	34	120	340	260	36	44	34.8	41.8
Service workers	7,577	620	3,003	3,954	3,160	352	442	30.2	40.9
Private household	1,094	120	596	378	262	35	81	23.9	43.3
Other service workers	6,483	500	2,407	3,576	2,897	318	361	31.3	40.6

HOUSEHOLD DATA

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

[Numbers in thousands]

Employment status	September 1979								
	Total			White			Black and other		
	Both sexes	Males	Females	Both sexes	Males	Females	Both sexes	Males	Females
Civilian noninstitutional population	7,867	4,002	3,865	6,562	3,347	3,215	1,305	656	649
Civilian labor force	1,403	759	643	1,301	707	593	102	52	50
Employed	1,181	627	554	1,133	601	532	48	26	22
Agriculture	135	110	25	131	105	26	4	5	--
Nonagricultural industries	1,046	518	528	1,002	496	506	44	22	22
Unemployed	222	132	90	168	106	62	54	26	28
Unemployment rate	15.8	17.4	14.0	12.9	15.0	10.5	52.9	(1)	(1)
Not in labor force	6,464	3,243	3,221	5,261	2,639	2,622	1,203	604	599
Keeping house	53	10	43	51	9	42	2	1	1
Going to school	6,204	3,085	3,120	5,061	2,519	2,542	1,143	566	577
Unable to work	13	6	7	12	6	6	1	--	1
All other reasons	194	142	51	137	105	32	57	37	20

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

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

Characteristics	September 1979					
	Thousands of persons			Percent distribution		
	Both sexes	Males	Females	Both sexes	Males	Females
CLASS OF WORKER						
Total	1,181	627	554	100.0	100.0	100.0
Nonagricultural industries	1,046	518	528	88.5	82.6	95.5
Wage and salary workers	977	473	503	82.7	75.4	91.0
Private household workers	424	126	298	35.9	20.1	53.9
Government workers	27	13	14	2.3	2.1	2.5
Other wage and salary workers	525	335	191	44.4	53.4	34.5
Self-employed workers	63	40	23	5.3	6.4	4.2
Unpaid family workers	7	4	2	.6	.6	.4
Agriculture	135	110	25	11.4	17.5	4.5
Wage and salary workers	61	47	13	5.2	7.5	2.4
Self-employed workers	35	29	6	3.0	4.6	1.1
Unpaid family workers	40	33	6	3.4	5.3	1.1
OCCUPATION						
Total	1,181	627	554	100.0	100.0	100.0
White-collar workers	281	184	97	23.8	29.4	17.5
Professional and technical	12	5	7	1.0	.8	1.3
Managers and administrators, except farm	2	2	--	.2	.3	--
Sales workers	214	170	44	18.1	27.2	8.0
Clerical workers	53	6	46	4.5	1.0	8.3
Blue-collar workers	259	225	34	21.9	35.9	6.1
Craft and kindred workers	4	5	--	.3	.8	--
Operatives, except transport	28	21	7	2.4	3.4	1.3
Transport equipment operatives	10	8	2	.8	1.3	.4
Nonfarm laborers	216	191	24	18.3	30.5	4.3
Service workers	547	143	404	46.4	22.8	73.1
Private household workers	309	18	290	26.2	2.9	52.4
Other service workers	238	125	114	20.2	20.0	20.6
Farm workers	94	76	19	8.0	12.1	3.4
Farmers and farm managers	3	2	1	.3	.3	.2
Farm laborers and supervisors	91	73	18	7.7	11.7	3.3

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[Numbers in thousands]

Employment status	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
TOTAL													
Total noninstitutional population ¹	161,570	161,829	162,033	162,250	162,448	162,633	162,909	163,008	163,260	163,469	163,685	163,891	164,106
Armed Forces ¹	2,123	2,122	2,117	2,108	2,094	2,094	2,090	2,082	2,078	2,076	2,082	2,090	2,092
Civilian noninstitutional population ¹	159,447	159,707	159,916	160,142	160,353	160,539	160,819	160,926	161,182	161,393	161,604	161,801	162,013
Civilian labor force	100,974	101,077	101,628	101,867	102,183	102,527	102,714	102,111	102,247	102,528	103,059	103,049	103,498
Percent of civilian population	63.3	63.3	63.6	63.6	63.7	63.9	63.9	63.5	63.4	63.5	63.8	63.7	63.9
Employed	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900	97,513
Percent of total population	58.8	58.9	59.1	59.1	59.3	59.4	59.4	59.0	59.0	59.2	59.4	59.1	59.4
Agriculture	3,406	3,374	3,275	3,387	3,232	3,311	3,343	3,186	3,184	3,260	3,262	3,322	3,400
Nonagricultural industries	91,604	91,867	92,476	92,468	93,068	93,335	93,499	92,987	93,134	93,494	93,949	93,578	94,113
Unemployed	5,964	5,836	5,877	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848	6,149	5,985
Unemployment rate	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0	5.8
Not in labor force	58,473	58,630	58,288	58,275	58,170	58,012	58,105	58,815	58,935	58,865	58,545	58,752	58,515
Males, 20 years and over													
Total noninstitutional population ¹	68,937	69,081	69,182	69,288	69,385	69,476	69,612	69,663	69,787	69,889	69,995	70,099	70,205
Civilian noninstitutional population ¹	67,236	67,382	67,486	67,600	67,726	67,816	67,939	67,997	68,123	68,227	68,319	68,417	68,522
Civilian labor force	53,459	53,593	53,938	54,033	54,333	54,485	54,444	54,243	54,261	54,395	54,567	54,527	54,653
Percent of civilian population	79.5	79.5	79.9	79.9	80.2	80.3	80.1	79.8	79.7	79.7	79.9	79.7	79.8
Employed	51,287	51,448	51,825	51,838	52,133	52,331	52,264	52,056	52,157	52,299	52,319	52,227	52,382
Percent of total population	74.4	74.5	74.9	74.8	75.1	75.3	75.1	74.7	74.7	74.8	74.7	74.5	74.6
Agriculture	2,409	2,363	2,337	2,403	2,293	2,324	2,355	2,271	2,274	2,306	2,323	2,385	2,395
Nonagricultural industries	48,878	49,085	49,488	49,435	49,841	50,007	49,909	49,785	49,883	49,993	49,996	49,843	49,987
Unemployed	2,172	2,145	2,113	2,195	2,200	2,154	2,180	2,187	2,105	2,096	2,249	2,300	2,271
Unemployment rate	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1	4.2	4.2
Not in labor force	13,777	13,789	13,548	13,567	13,393	13,331	13,495	13,754	13,862	13,832	13,752	13,890	13,869
Females, 20 years and over													
Total noninstitutional population ¹	75,873	75,998	76,110	76,227	76,337	76,440	76,589	76,645	76,782	76,896	77,014	77,127	77,245
Civilian noninstitutional population ¹	75,764	75,889	76,001	76,119	76,228	76,332	76,476	76,532	76,670	76,784	76,897	77,006	77,124
Civilian labor force	37,921	37,860	38,095	38,217	38,185	38,429	38,642	38,345	38,560	38,596	39,010	39,292	39,331
Percent of civilian population	50.1	49.9	50.1	50.2	50.1	50.3	50.5	50.1	50.3	50.3	50.7	51.0	51.0
Employed	35,691	35,726	35,887	35,990	36,019	36,252	36,440	36,165	36,323	36,373	36,861	36,968	37,178
Percent of total population	47.0	47.0	47.2	47.2	47.2	47.4	47.6	47.2	47.3	47.3	47.9	47.9	48.1
Agriculture	597	587	571	591	586	608	613	580	543	592	584	596	640
Nonagricultural industries	35,094	35,139	35,316	35,399	35,433	35,644	35,827	35,584	35,780	35,781	36,276	36,371	36,538
Unemployed	2,230	2,134	2,208	2,227	2,166	2,177	2,201	2,180	2,237	2,223	2,150	2,324	2,153
Unemployment rate	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5	5.9	5.5
Not in labor force	37,843	38,029	37,906	37,902	38,043	37,903	37,834	38,187	38,110	38,188	37,887	37,714	37,793
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,760	16,750	16,741	16,734	16,725	16,717	16,709	16,700	16,692	16,684	16,677	16,665	16,655
Civilian noninstitutional population ¹	16,446	16,436	16,429	16,422	16,400	16,391	16,404	16,397	16,389	16,381	16,387	16,377	16,367
Civilian labor force	9,594	9,624	9,595	9,617	9,665	9,613	9,628	9,523	9,426	9,537	9,481	9,230	9,514
Percent of civilian population	58.3	58.6	58.4	58.6	58.9	58.6	58.7	58.1	57.5	58.2	57.9	56.4	58.1
Employed	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031	7,705	7,953
Percent of total population	47.9	48.2	48.0	48.0	48.7	48.2	48.7	47.6	47.0	48.4	48.2	46.2	47.7
Agriculture	400	424	367	393	354	380	375	335	368	362	355	341	365
Nonagricultural industries	7,632	7,643	7,672	7,634	7,794	7,684	7,763	7,618	7,471	7,720	7,676	7,364	7,588
Unemployed	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450	1,525	1,561
Unemployment rate	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5	16.4
Not in labor force	6,852	6,812	6,834	6,805	6,735	6,778	6,776	6,874	6,963	6,844	6,906	7,147	6,853

¹ The population and Armed Forces figures are not adjusted for seasonal variations.

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

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(Numbers in thousands)

Full- and part-time employment status	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
FULL TIME													
Total, 16 years and over:													
Civilian labor force	85,899	86,185	86,391	86,631	87,025	87,373	87,567	87,430	87,300	87,637	87,700	87,596	88,153
Employed	81,247	81,680	81,900	82,034	82,525	82,789	83,067	82,774	82,792	83,180	83,077	82,822	83,422
Unemployed	4,652	4,505	4,491	4,597	4,500	4,584	4,499	4,655	4,508	4,458	4,624	4,774	4,731
Unemployment rate	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3	5.4	5.4
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,952	14,996	15,150	15,205	15,196	15,213	15,097	14,701	14,954	14,865	15,384	15,585	15,252
Employed	13,635	13,642	13,800	13,802	13,810	13,907	13,706	13,410	13,517	13,586	14,128	14,221	13,993
Unemployed	1,317	1,354	1,350	1,403	1,385	1,306	1,391	1,291	1,437	1,278	1,256	1,364	1,259
Unemployment rate	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2	8.8	8.3

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

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

(Numbers in thousands)

Characteristics	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
WHITE													
Total, 16 years and over:													
Civilian labor force	88,862	89,067	89,468	89,747	90,093	90,395	90,415	89,923	90,018	90,279	90,554	90,662	91,081
Employed	84,250	84,565	85,013	85,125	85,543	85,941	85,938	85,479	85,515	85,871	86,093	85,829	86,395
Unemployed	4,612	4,502	4,455	4,622	4,550	4,453	4,478	4,444	4,503	4,409	4,460	4,832	4,687
Unemployment rate	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9	5.3	5.1
Males, 20 years and over:													
Civilian labor force	47,684	47,791	48,103	48,202	48,466	48,639	48,527	48,411	48,401	48,535	48,617	48,573	48,675
Employed	45,968	46,098	46,477	46,492	46,737	47,006	46,877	46,755	46,792	46,883	46,855	46,736	46,859
Unemployed	1,716	1,693	1,626	1,710	1,729	1,633	1,650	1,657	1,609	1,652	1,762	1,837	1,816
Unemployment rate	3.6	3.5	3.4	3.5	3.6	3.4	3.4	3.4	3.3	3.4	3.6	3.8	3.7
Females, 20 years and over:													
Civilian labor force	32,602	32,677	32,809	32,981	32,978	33,225	33,302	33,080	33,275	33,239	33,564	33,878	33,894
Employed	30,912	31,074	31,161	31,287	31,340	31,567	31,638	31,460	31,572	31,589	31,982	32,108	32,268
Unemployed	1,690	1,603	1,648	1,694	1,638	1,658	1,664	1,619	1,703	1,650	1,582	1,769	1,626
Unemployment rate	5.2	4.9	5.0	5.1	5.0	5.0	5.0	4.9	5.1	5.0	4.7	5.2	4.8
Both sexes, 16 to 19 years:													
Civilian labor force	8,576	8,599	8,556	8,564	8,649	8,531	8,586	8,432	8,342	8,505	8,373	8,211	8,512
Employed	7,370	7,393	7,375	7,346	7,466	7,368	7,422	7,264	7,151	7,398	7,257	6,985	7,267
Unemployed	1,206	1,206	1,181	1,218	1,183	1,163	1,164	1,168	1,191	1,107	1,116	1,226	1,245
Unemployment rate	14.1	14.0	13.8	14.2	13.7	13.6	13.6	13.9	14.3	13.0	13.3	14.9	14.6
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	12,084	12,122	12,163	12,153	12,077	12,228	12,251	12,175	12,176	12,272	12,364	12,340	12,408
Employed	10,721	10,749	10,746	10,758	10,725	10,775	10,878	10,734	10,767	10,883	11,025	10,987	11,095
Unemployed	1,363	1,373	1,417	1,395	1,352	1,452	1,374	1,442	1,409	1,389	1,338	1,353	1,313
Unemployment rate	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8	11.0	10.6
Males, 20 years and over:													
Civilian labor force	5,759	5,808	5,829	5,867	5,810	5,841	5,874	5,813	5,826	5,902	5,946	5,942	5,987
Employed	5,286	5,327	5,345	5,376	5,356	5,339	5,357	5,315	5,335	5,435	5,453	5,450	5,513
Unemployed	473	481	484	491	455	502	517	498	491	467	493	492	475
Unemployment rate	8.2	8.3	8.3	8.4	7.8	8.6	8.8	8.6	8.4	7.9	8.3	8.3	7.9
Females, 20 years and over:													
Civilian labor force	5,287	5,277	5,266	5,224	5,223	5,279	5,316	5,276	5,290	5,359	5,392	5,417	5,400
Employed	4,759	4,743	4,723	4,691	4,667	4,722	4,793	4,708	4,764	4,782	4,863	4,857	4,883
Unemployed	528	534	543	533	556	557	523	568	526	577	528	560	517
Unemployment rate	10.0	10.1	10.3	10.2	10.6	10.6	9.8	10.8	9.9	10.8	9.8	10.3	9.6
Both sexes, 16 to 19 years:													
Civilian labor force	1,038	1,037	1,068	1,062	1,044	1,107	1,061	1,086	1,059	1,011	1,026	980	1,021
Employed	676	679	678	691	703	714	727	711	668	667	709	679	699
Unemployed	362	358	390	371	341	393	334	375	391	344	317	301	322
Unemployment rate	34.9	34.5	36.5	34.9	32.7	35.5	31.5	34.5	36.9	34.0	30.9	30.7	31.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

A-36. Major unemployment indicators, seasonally adjusted

(Unemployment rates)

Selected categories	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTICS													
Total (all civilian workers)	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0	5.8
Males, 20 years and over	4.1	4.0	3.9	4.1	4.0	4.0	4.0	4.0	3.9	3.9	4.1	4.2	4.2
Females, 20 years and over	5.9	5.6	5.8	5.8	5.7	5.7	5.7	5.7	5.8	5.8	5.5	5.9	5.5
Both sexes, 16-19 years	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5	16.4
White	5.2	5.1	5.0	5.2	5.1	4.9	5.0	4.9	5.0	4.9	4.9	5.3	5.1
Black and other	11.3	11.3	11.7	11.5	11.2	11.9	11.2	11.8	11.6	11.3	10.8	11.0	10.6
Married men, spouse present	2.6	2.6	2.4	2.5	2.6	2.6	2.6	2.7	2.5	2.6	2.9	3.0	2.8
Married women, spouse present	5.5	5.3	5.5	5.6	5.3	5.1	5.1	5.2	5.2	5.2	4.8	5.4	4.7
Woman who head families	8.0	7.5	7.7	7.7	7.8	8.3	8.3	8.4	8.9	9.1	8.1	7.9	7.6
Full-time workers	5.4	5.2	5.2	5.3	5.2	5.2	5.1	5.3	5.2	5.1	5.3	5.4	5.4
Part-time workers	8.8	9.0	8.9	9.2	9.1	8.6	9.2	8.8	9.6	8.6	8.2	8.8	8.3
Unemployed 15 weeks and over ¹	1.3	1.3	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.1	1.0	1.2	1.1
Labor force time lost ²	6.4	6.2	6.2	6.2	6.2	6.2	6.1	6.5	6.3	6.3	6.4	6.5	6.2
OCCUPATION													
White-collar workers	3.5	3.3	3.2	3.5	3.3	3.4	3.4	3.3	3.2	3.4	3.2	3.6	3.3
Professional and technical	2.6	2.8	2.4	3.0	2.5	2.3	2.1	2.2	2.0	2.5	2.5	2.6	2.5
Managers and administrators, except farm	2.2	1.8	2.2	1.9	2.0	1.9	2.2	2.3	2.2	2.0	1.9	2.3	2.2
Sales workers	4.3	4.1	3.1	3.6	3.8	4.3	4.1	4.0	4.0	4.5	3.5	4.2	3.9
Clerical workers	4.7	4.2	4.5	4.6	4.6	4.7	4.9	4.5	4.6	4.6	4.4	5.0	4.5
Blue-collar workers	6.8	6.8	6.4	6.8	6.4	6.4	6.6	6.9	6.7	6.5	6.8	7.6	7.1
Craft and kindred workers	4.7	4.9	4.0	4.7	4.5	4.7	4.6	4.2	4.0	4.2	4.2	4.9	4.1
Operatives, except transport	8.1	7.6	7.5	7.7	7.6	7.6	7.7	8.6	8.3	7.7	8.3	9.3	9.2
Transport equipment operatives	5.2	4.8	4.2	5.3	4.9	5.0	5.2	6.0	5.4	5.5	5.2	6.8	6.2
Nonfarm laborers	10.5	11.0	11.6	11.0	9.4	9.3	10.3	10.5	11.1	10.3	10.9	11.5	10.8
Service workers	7.4	7.1	7.4	7.7	7.9	7.1	7.2	7.4	7.2	7.2	7.2	7.0	6.7
Farm workers	3.9	4.6	3.2	3.4	2.8	3.6	3.2	3.4	3.5	3.1	4.5	3.8	4.2
INDUSTRY													
Nonagricultural private wage and salary workers ³	5.8	5.6	5.6	5.8	5.7	5.6	5.5	5.7	5.7	5.6	5.7	6.1	5.8
Construction	10.6	11.2	10.8	12.1	10.6	11.5	10.2	10.3	9.6	9.6	9.5	9.5	8.8
Manufacturing	5.3	5.1	5.1	5.0	5.0	4.8	5.2	5.4	5.4	5.3	5.8	6.2	6.1
Durable goods	4.8	4.6	4.6	4.4	4.4	4.1	4.3	4.6	4.4	4.8	5.5	5.7	5.3
Nondurable goods	6.1	6.0	5.8	6.0	5.9	5.8	6.4	6.5	7.0	6.2	6.2	6.9	7.3
Transportation	3.6	3.4	3.3	3.3	3.5	3.0	4.0	2.9	3.5	3.0	3.9	3.8	4.1
Wholesale and retail trade	6.7	6.7	6.5	6.8	6.5	6.6	6.2	6.6	6.4	6.8	6.2	6.6	6.4
Finance and service industries	5.1	4.6	5.0	5.1	5.1	4.8	4.7	4.8	5.0	4.7	4.9	5.4	4.7
Government workers	3.9	3.9	3.9	4.0	4.0	3.7	4.1	3.6	3.5	3.6	3.5	3.8	3.3
Agricultural wage and salary workers	8.7	9.5	7.9	7.7	7.2	8.9	7.7	8.6	9.3	7.7	10.4	9.9	10.3

¹ Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

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

(Numbers in thousands)

Weeks of unemployment	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
DURATION													
Both sexes, 16 years and over:													
Less than 5 weeks	2,783	2,719	2,833	2,876	2,713	2,743	2,751	2,939	2,787	2,927	2,784	3,226	2,743
5 to 14 weeks	1,861	1,789	1,774	1,979	1,877	1,870	1,857	1,874	1,935	1,782	1,970	1,743	2,050
15 weeks and over	1,268	1,317	1,196	1,208	1,251	1,260	1,305	1,235	1,213	1,086	1,052	1,191	1,133
15 to 26 weeks	663	732	685	726	728	712	729	692	705	616	600	662	627
27 weeks and over	605	585	511	482	523	548	576	543	508	470	451	529	507
Average (mean) duration, in weeks	11.5	11.8	11.0	10.7	11.2	11.3	11.7	11.0	11.1	10.4	10.0	10.5	10.6
Median duration, in weeks	5.9	5.9	5.4	5.6	5.9	6.3	5.8	5.2	5.2	5.6	6.1	4.9	5.9
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	47.1	46.7	48.8	47.4	46.4	46.7	46.5	48.6	47.0	50.5	48.0	52.4	46.3
5 to 14 weeks	31.5	30.7	30.6	32.6	32.1	31.8	31.4	31.0	32.6	30.8	33.9	28.3	34.6
15 weeks and over	21.4	22.6	20.6	19.9	21.4	21.4	22.1	20.4	20.4	18.7	18.1	19.3	19.1
15 to 26 weeks	11.2	12.6	11.8	12.0	12.5	12.1	12.3	11.4	11.9	10.6	10.3	10.7	10.6
27 weeks and over	10.2	10.0	8.8	7.9	9.0	9.3	9.7	9.0	8.6	8.1	7.8	8.6	8.5

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

Sex and age	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	5.9	5.8	5.8	5.9	5.8	5.7	5.7	5.8	5.8	5.6	5.7	6.0	5.8
16 to 19 years	16.3	16.2	16.2	16.5	15.7	16.1	15.5	16.5	16.8	15.3	15.3	16.5	16.4
16 to 17 years	19.2	19.2	19.3	20.2	18.4	18.4	18.9	19.1	19.2	16.7	17.1	18.1	16.8
18 to 19 years	14.0	14.0	14.0	13.8	13.6	14.6	13.1	14.3	15.2	14.1	14.4	15.5	16.0
20 to 24 years	9.3	8.6	9.0	9.3	8.6	8.6	8.8	8.5	8.9	8.9	9.0	9.3	9.2
25 years and over	4.0	3.9	3.8	3.9	3.9	3.9	3.9	4.0	3.8	3.8	3.9	4.1	3.8
25 to 54 years	4.1	4.2	4.0	4.2	4.2	4.1	4.1	4.2	4.0	4.0	4.0	4.3	4.1
55 years and over	3.3	3.0	2.9	2.9	2.9	3.0	3.1	3.1	3.2	2.9	3.2	3.2	2.9
Males, 16 years and over	5.1	5.1	5.0	5.1	5.1	5.0	5.0	5.1	4.9	4.7	5.0	5.2	5.2
16 to 19 years	15.5	16.1	15.9	16.7	16.1	16.5	16.0	16.2	16.1	14.1	14.9	16.0	16.2
16 to 17 years	19.1	19.9	20.1	20.7	19.1	19.2	19.9	18.0	19.0	15.8	15.2	17.3	16.6
18 to 19 years	12.6	13.2	12.7	13.6	13.5	14.7	13.2	14.2	14.1	13.5	14.9	15.3	15.6
20 to 24 years	8.6	8.5	8.5	8.9	8.4	8.2	8.4	7.8	8.0	8.0	8.8	8.9	8.8
25 years and over	3.3	3.3	3.1	3.2	3.2	3.2	3.2	3.3	3.1	3.1	3.3	3.5	3.4
25 to 54 years	3.4	3.4	3.2	3.4	3.3	3.2	3.3	3.4	3.1	3.1	3.3	3.6	3.5
55 years and over	3.0	2.8	2.5	2.6	2.8	2.8	2.8	3.0	2.9	3.1	3.4	3.2	2.9
Females, 16 years and over	7.1	6.8	6.9	6.9	6.7	6.7	6.7	6.9	7.0	6.9	6.6	7.0	6.6
16 to 19 years	17.1	16.3	16.5	16.3	15.3	15.7	14.8	16.8	17.7	16.6	15.8	17.1	16.7
16 to 17 years	19.4	18.4	18.3	19.6	17.5	17.4	17.8	20.2	19.3	17.7	19.2	18.9	17.0
18 to 19 years	15.6	14.8	15.5	14.1	13.6	14.4	13.0	14.4	16.4	14.8	13.8	15.8	16.5
20 to 24 years	10.1	8.7	9.6	9.7	8.9	9.1	9.4	9.4	9.9	9.9	9.3	9.9	9.7
25 years and over	4.9	4.9	4.9	5.0	5.0	4.9	4.8	4.9	5.0	4.8	4.7	5.0	4.6
25 to 54 years	5.2	5.2	5.2	5.3	5.4	5.3	5.2	5.2	5.2	5.3	5.0	5.4	4.9
55 years and over	3.8	3.3	3.5	3.3	3.1	3.3	3.6	3.1	3.7	2.7	2.9	3.3	3.0

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

[Numbers in thousands]

Reason for unemployment	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	2,362	2,456	2,372	2,442	2,454	2,481	2,440	2,521	2,361	2,358	2,532	2,724	2,608
On layoff	683	644	746	715	753	792	789	846	710	796	793	960	836
Other job losers	1,679	1,812	1,626	1,727	1,701	1,689	1,652	1,675	1,652	1,562	1,739	1,765	1,771
Job leavers	849	812	825	871	927	829	863	847	951	867	838	894	818
Reentrants	1,930	1,721	1,754	1,937	1,692	1,756	1,788	1,790	1,762	1,738	1,737	1,798	1,785
New entrants	816	825	872	826	823	874	822	811	841	787	694	720	803
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	39.7	42.2	40.7	40.2	41.6	41.8	41.3	42.2	39.9	41.0	43.7	44.4	43.4
On layoff	11.5	11.1	12.8	11.8	12.8	13.3	13.3	14.2	12.0	13.8	13.7	15.6	13.9
Other job losers	28.2	31.2	27.9	28.4	28.9	28.4	27.9	28.1	27.9	27.2	30.0	28.8	29.5
Job leavers	14.3	14.0	14.2	14.3	15.7	14.0	14.6	14.2	16.1	15.1	14.4	14.6	13.6
Reentrants	32.4	29.6	30.1	31.9	28.7	29.6	30.2	30.0	29.8	30.2	29.9	29.3	29.7
New entrants	13.7	14.2	15.0	13.6	14.0	14.7	13.9	13.6	14.2	13.7	12.0	11.7	13.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.5	2.3	2.3	2.5	2.6	2.5
On layoff .....	.8	.8	.8	.9	.9	.8	.8	.8	.9	.8	.8	.9	.8
Other job losers	1.9	1.7	1.7	1.9	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.7
Job leavers .....	.8	.8	.9	.8	.8	.9	.8	.8	.8	.8	.7	.7	.8

**HOUSEHOLD DATA
SEASONALLY ADJUSTED**

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

[In thousands]

Sex and age	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900	97,513
16 to 19 years	8,032	8,067	8,039	8,027	8,148	8,064	8,138	7,953	7,839	8,082	8,031	7,705	7,953
16 to 17 years	3,293	3,308	3,276	3,300	3,354	3,372	3,323	3,280	3,177	3,269	3,233	3,037	3,325
18 to 19 years	4,749	4,773	4,783	4,730	4,835	4,731	4,803	4,711	4,661	4,738	4,732	4,620	4,638
20 to 24 years	13,666	13,773	13,701	13,760	13,859	13,992	13,959	13,975	13,803	13,829	13,922	13,814	13,993
25 years and over	73,332	73,530	73,976	74,070	74,299	74,641	74,703	74,284	74,666	74,832	75,298	75,242	75,622
25 to 54 years	59,191	59,329	59,630	59,781	59,903	60,193	60,329	60,069	60,298	60,502	61,039	61,012	61,212
55 years and over	14,124	14,137	14,340	14,327	14,394	14,452	14,382	14,220	14,295	14,297	14,229	14,349	14,374
Males, 16 years and over	55,594	55,754	56,096	56,072	56,449	56,549	56,559	56,267	56,352	56,638	56,595	56,316	56,653
16 to 19 years	4,307	4,306	4,271	4,234	4,316	4,218	4,295	4,211	4,195	4,339	4,276	4,088	4,271
16 to 17 years	1,775	1,751	1,734	1,744	1,795	1,779	1,788	1,783	1,739	1,765	1,735	1,622	1,841
18 to 19 years	2,549	2,558	2,559	2,494	2,541	2,455	2,519	2,458	2,436	2,518	2,491	2,441	2,448
20 to 24 years	7,378	7,432	7,478	7,443	7,541	7,585	7,516	7,641	7,474	7,543	7,498	7,468	7,606
25 years and over	43,950	44,026	44,340	44,411	44,589	44,772	44,711	44,442	44,684	44,725	44,791	44,712	44,857
25 to 54 years	35,237	35,261	35,481	35,560	35,709	35,845	35,880	35,716	35,863	35,927	36,030	35,909	36,001
55 years and over	8,711	8,760	8,867	8,872	8,896	8,901	8,841	8,713	8,789	8,755	8,751	8,804	8,844
Females, 16 years and over	39,416	39,487	39,655	39,783	39,851	40,098	40,283	39,907	39,966	40,116	40,615	40,585	40,860
16 to 19 years	3,725	3,761	3,768	3,793	3,832	3,846	3,843	3,742	3,643	3,743	3,755	3,617	3,682
16 to 17 years	1,518	1,561	1,542	1,556	1,559	1,593	1,535	1,497	1,438	1,504	1,498	1,415	1,484
18 to 19 years	2,200	2,215	2,224	2,236	2,294	2,276	2,284	2,253	2,225	2,220	2,241	2,179	2,190
20 to 24 years	6,288	6,341	6,223	6,317	6,318	6,407	6,444	6,334	6,329	6,286	6,423	6,346	6,387
25 years and over	29,382	29,504	29,636	29,659	29,710	29,869	29,993	29,841	29,982	30,107	30,507	30,530	30,765
25 to 54 years	23,954	24,068	24,149	24,221	24,194	24,348	24,449	24,353	24,435	24,576	25,009	25,103	25,212
55 years and over	5,413	5,377	5,473	5,455	5,498	5,551	5,541	5,507	5,506	5,542	5,478	5,544	5,531

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

[In thousands]

Sex and age	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Total, 16 years and over	5,964	5,836	5,877	6,012	5,883	5,881	5,871	5,937	5,929	5,774	5,848	6,149	5,985
16 to 19 years	1,562	1,557	1,556	1,590	1,517	1,549	1,490	1,570	1,587	1,455	1,450	1,525	1,561
16 to 17 years	783	786	781	834	755	758	775	772	753	655	666	670	671
18 to 19 years	773	775	778	759	758	807	724	788	835	779	794	849	885
20 to 24 years	1,399	1,298	1,361	1,406	1,310	1,316	1,355	1,305	1,348	1,344	1,379	1,422	1,420
25 years and over	3,025	3,015	2,951	3,015	3,049	2,998	3,008	3,063	2,978	2,963	3,050	3,220	3,025
25 to 54 years	2,553	2,569	2,514	2,615	2,607	2,566	2,574	2,602	2,509	2,546	2,540	2,754	2,600
55 years and over	478	438	426	424	435	449	462	448	471	432	472	480	432
Males, 16 years and over	2,565	2,971	2,923	3,044	3,026	2,989	3,001	3,001	2,910	2,808	2,997	3,081	3,096
16 to 19 years	793	826	810	849	826	835	821	814	805	712	748	781	825
16 to 17 years	418	436	436	455	424	423	443	392	408	331	311	340	366
18 to 19 years	367	390	371	391	397	424	383	408	399	394	435	441	452
20 to 24 years	696	693	699	730	693	674	687	687	653	655	723	727	732
25 years and over	1,495	1,505	1,413	1,469	1,493	1,459	1,481	1,538	1,406	1,436	1,538	1,607	1,557
25 to 54 years	1,228	1,237	1,188	1,249	1,231	1,202	1,235	1,254	1,156	1,164	1,231	1,326	1,298
55 years and over	265	253	230	235	258	257	253	270	259	277	310	291	263
Females, 16 years and over	2,999	2,865	2,954	2,968	2,857	2,891	2,870	2,936	3,019	2,966	2,852	3,068	2,889
16 to 19 years	769	731	746	741	691	714	669	756	782	743	702	744	736
16 to 17 years	365	350	345	379	331	335	332	380	345	324	355	330	305
18 to 19 years	406	385	407	368	361	383	341	380	436	385	359	408	433
20 to 24 years	703	605	662	676	618	642	668	658	695	688	656	695	688
25 years and over	1,530	1,510	1,538	1,546	1,555	1,539	1,527	1,526	1,572	1,527	1,512	1,613	1,467
25 to 54 years	1,325	1,332	1,326	1,366	1,376	1,364	1,340	1,349	1,352	1,382	1,309	1,427	1,302
55 years and over	213	185	198	189	177	192	208	179	211	155	163	189	169

HOUSEHOLD DATA SEASONALLY ADJUSTED

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

(In thousands)

Selected categories	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
CHARACTERISTICS													
Total, 16 years and over	95,010	95,241	95,751	95,855	96,300	96,647	96,842	96,174	96,318	96,754	97,210	96,900	97,513
Married men, spouse present	38,782	38,806	38,944	39,039	39,202	39,374	39,291	38,917	38,988	39,055	39,163	39,146	39,175
Married women, spouse present	22,133	22,194	22,274	22,297	22,410	22,632	22,700	22,355	22,490	22,580	22,890	22,777	22,965
OCCUPATION													
White-collar workers	47,550	47,713	47,888	48,040	48,275	49,001	49,133	49,160	49,104	49,165	49,573	49,615	49,779
Professional and technical	14,182	14,307	14,297	14,629	14,743	15,034	15,083	15,226	15,220	15,053	15,063	14,983	15,078
Managers and administrators, except farm	10,062	9,968	10,030	10,217	10,322	10,414	10,407	10,409	10,374	10,565	10,675	10,772	10,640
Sales workers	5,898	5,986	6,192	6,092	6,055	6,141	6,067	6,079	6,091	6,065	6,161	6,085	6,114
Clerical workers	17,408	17,452	17,369	17,102	17,154	17,412	17,577	17,446	17,418	17,481	17,673	17,774	17,947
Blue-collar workers	31,891	31,986	32,202	31,962	32,491	32,331	32,085	31,582	31,826	31,958	31,949	31,767	32,287
Craft and kindred workers	12,628	12,556	12,646	12,610	12,842	12,932	12,808	12,697	12,790	13,003	12,832	12,755	13,057
Operatives, except transport	10,981	11,178	11,177	10,887	11,047	10,953	11,060	10,651	10,664	10,759	10,853	10,880	10,987
Transport equipment operatives	3,573	3,581	3,640	3,640	3,678	3,618	3,565	3,550	3,667	3,596	3,610	3,571	3,622
Nonfarm laborers	4,709	4,671	4,739	4,825	4,924	4,829	4,652	4,684	4,706	4,600	4,652	4,561	4,621
Service workers	12,754	12,951	13,009	13,007	12,777	12,770	12,856	12,909	12,754	12,946	12,697	12,591	12,796
Farm workers	2,855	2,821	2,739	2,826	2,759	2,742	2,803	2,624	2,600	2,683	2,657	2,703	2,736
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,442	1,423	1,424	1,478	1,365	1,429	1,419	1,362	1,439	1,445	1,403	1,363	1,391
Self-employed workers	1,648	1,638	1,563	1,625	1,547	1,550	1,595	1,531	1,490	1,525	1,552	1,632	1,678
Unpaid family workers	307	323	293	318	293	348	324	282	270	293	294	310	327
Nonagricultural industries:													
Wage and salary workers	84,786	85,363	85,578	85,579	86,169	86,346	86,592	86,195	86,129	86,309	86,277	86,227	86,891
Government	15,336	15,387	15,373	15,360	15,217	15,293	15,224	15,356	15,635	15,257	15,382	15,260	15,450
Private industries	69,450	69,976	70,205	70,219	70,952	71,053	71,368	70,839	70,494	71,051	70,895	70,967	71,441
Private households	1,361	1,315	1,335	1,316	1,245	1,334	1,255	1,160	1,177	1,236	1,217	1,205	1,332
Other industries	68,089	68,661	68,870	68,903	69,707	69,719	70,112	69,679	69,317	69,816	69,678	69,761	70,109
Self-employed workers	6,224	6,314	6,370	6,515	6,529	6,632	6,585	6,468	6,625	6,600	6,753	6,649	6,682
Unpaid family workers	470	453	455	460	478	456	443	471	466	482	529	443	453
PERSONS AT WORK¹													
Nonagricultural industries	86,329	86,511	86,653	87,046	87,490	87,592	87,955	86,345	87,727	87,843	89,074	89,154	88,824
Full-time schedules	71,085	71,318	71,394	71,787	72,209	72,250	72,623	71,554	72,476	72,230	73,138	73,222	73,252
Part-time for economic reasons	3,203	3,164	3,131	3,058	3,159	3,147	3,179	3,312	3,307	3,416	3,340	3,355	3,111
Usually work full-time	1,283	1,167	1,279	1,209	1,208	1,205	1,235	1,265	1,246	1,416	1,394	1,478	1,255
Usually work part-time	1,920	1,997	1,852	1,849	1,951	1,942	1,944	2,048	2,061	2,000	1,946	1,877	1,856
Part-time for noneconomic reasons	12,041	12,029	12,128	12,201	12,122	12,195	12,154	11,479	11,943	12,198	12,597	12,577	12,461

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

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

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninsti- tutional population		Civilian labor force							
			Total		Employed		Unemployed			
							Number		Percent of labor force	
Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	Sept. 1978	Sept. 1979	
VETERANS¹										
Total, 20 years and over	8,374	8,559	7,879	8,139	7,577	7,880	302	259	3.8	3.2
20 to 24 years	722	512	623	452	566	411	57	41	9.1	9.1
25 to 39 years	6,917	7,173	6,635	6,924	6,412	6,739	223	185	3.4	2.7
25 to 29 years	2,256	1,886	2,134	1,798	2,010	1,737	124	61	5.8	3.4
30 to 34 years	3,462	3,635	3,344	3,534	3,280	3,455	64	79	1.9	2.2
35 to 39 years	1,199	1,652	1,157	1,592	1,122	1,547	35	45	3.0	2.8
40 years and over	735	874	621	763	599	730	22	33	3.5	4.3
NONVETERANS²										
Total, 25 to 39 years	13,873	14,760	13,268	14,089	12,870	13,599	394	490	3.0	3.5
25 to 29 years	6,227	6,777	5,938	6,458	5,725	6,202	213	256	3.6	4.0
30 to 34 years	4,001	4,229	3,838	4,020	3,725	3,892	113	128	2.9	3.2
35 to 39 years	3,645	3,754	3,488	3,611	3,420	3,505	68	106	1.9	2.9

¹ Vietnam-era veterans are those who served between August 5, 1964 and May 1975.² Nonveterans are males who have never served in the Armed Forces. Published data are limited to those 25-39 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

NOTE: Seasonally-adjusted data are no longer being provided because the changing age composition of the Vietnam-era veterans' population distorts the ability to identify seasonality in the series.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Employment status	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Total noninstitutional population ¹	156,368	156,990	157,582	158,223	158,898	159,531	160,126	160,715	161,355	162,037	162,663	163,260	163,894
Armed Forces ¹	2,144	2,147	2,136	2,130	2,135	2,132	2,122	2,110	2,120	2,115	2,093	2,079	2,088
Civilian noninstitutional population ¹	154,224	154,843	155,446	156,094	156,764	157,399	158,004	158,605	159,235	159,922	160,570	161,181	161,806
Civilian labor force.....	95,205	95,583	96,248	97,106	97,607	98,538	99,263	100,127	100,753	101,524	102,475	103,295	103,202
Percent of civilian population.....	61.7	61.7	61.9	62.2	62.3	62.6	62.8	63.1	63.3	63.5	63.8	63.5	63.8
Employed.....	87,860	88,191	89,070	90,157	90,898	92,046	93,084	94,099	94,726	95,616	96,596	96,415	97,208
Percent of total population.....	56.2	56.2	56.5	57.0	57.2	57.7	58.1	58.5	58.7	59.0	59.4	59.1	59.3
Agriculture.....	3,309	3,253	3,170	3,300	3,202	3,302	3,326	3,314	3,378	3,345	3,295	3,210	3,328
Nonagricultural industries.....	84,552	84,937	85,900	86,857	87,697	88,744	89,758	90,785	91,348	92,270	93,301	93,205	93,880
Unemployed.....	7,345	7,392	7,178	6,949	6,708	6,492	6,179	6,028	6,027	5,908	5,878	5,880	5,994
Unemployment rate.....	7.7	7.7	7.5	7.2	6.9	6.6	6.2	6.0	6.0	5.8	5.7	5.7	5.8
Males, 20 years and over													
Total noninstitutional population ¹	66,385	66,711	67,023	67,321	67,641	67,951	68,238	68,520	68,831	69,184	69,491	69,786	70,100
Civilian noninstitutional population ¹	64,690	65,014	65,338	65,635	65,949	66,261	66,556	66,844	67,134	67,489	67,827	68,123	68,419
Civilian labor force.....	51,672	51,888	52,129	52,293	52,448	52,891	53,188	53,369	53,419	53,855	54,421	54,300	54,583
Percent of civilian population.....	79.9	79.8	79.8	79.7	79.5	79.8	79.9	79.8	79.8	80.2	79.7	79.7	79.8
Employed.....	48,633	48,786	49,156	49,538	49,843	50,397	50,777	51,151	51,239	51,704	52,243	52,171	52,309
Percent of total population.....	73.3	73.1	73.3	73.6	73.7	74.2	74.4	74.7	74.7	75.2	74.8	74.8	74.6
Agriculture.....	2,363	2,295	2,259	2,329	2,304	2,335	2,340	2,346	2,387	2,368	2,324	2,284	2,367
Nonagricultural industries.....	46,271	46,490	46,897	47,210	47,539	48,062	48,437	48,805	48,851	49,336	49,919	49,887	49,942
Unemployed.....	3,038	3,103	2,973	2,755	2,605	2,494	2,411	2,218	2,180	2,151	2,178	2,129	2,273
Unemployment rate.....	5.9	6.0	5.7	5.3	5.0	4.7	4.5	4.2	4.1	4.0	4.0	3.9	4.2
Females, 20 years and over													
Total noninstitutional population ¹	73,169	73,468	73,746	74,079	74,429	74,770	75,094	75,413	75,756	76,112	76,455	76,782	77,129
Civilian noninstitutional population ¹	73,080	73,378	73,653	73,984	74,331	74,671	74,994	75,310	75,649	76,003	76,345	76,670	77,009
Civilian labor force.....	34,510	34,735	35,045	35,559	35,842	36,277	36,715	37,228	37,679	38,057	38,419	38,500	39,211
Percent of civilian population.....	47.2	47.3	47.6	48.1	48.2	48.6	49.0	49.4	49.8	50.1	50.3	50.2	50.9
Employed.....	31,898	32,153	32,521	33,060	33,373	33,835	34,525	34,953	35,388	35,868	36,237	36,287	37,002
Percent of total population.....	43.6	43.8	44.1	44.6	44.8	45.3	46.0	46.3	46.7	47.1	47.4	47.3	48.0
Unemployed.....	2,612	2,582	2,525	2,499	2,469	2,442	2,190	2,276	2,291	2,190	2,182	2,213	2,209
Unemployment rate.....	7.6	7.4	7.2	7.0	6.9	6.7	6.0	6.1	6.1	5.8	5.7	5.7	5.6
Both sexes, 16-19 years													
Total noninstitutional population ¹	16,815	16,812	16,813	16,823	16,828	16,810	16,794	16,782	16,768	16,742	16,717	16,692	16,666
Civilian noninstitutional population ¹	16,454	16,451	16,454	16,475	16,484	16,468	16,454	16,452	16,452	16,429	16,398	16,369	16,377
Civilian labor force.....	9,024	8,960	9,073	9,255	9,316	9,371	9,360	9,529	9,655	9,612	9,635	9,495	9,408
Percent of civilian population.....	54.8	54.5	55.1	56.2	56.5	56.9	56.9	57.9	58.7	58.5	58.8	57.9	57.4
Employed.....	7,329	7,252	7,393	7,559	7,682	7,814	7,782	7,995	8,100	8,044	8,116	7,958	7,896
Percent of total population.....	43.6	43.1	44.0	45.9	45.7	46.5	46.3	47.6	48.3	48.0	48.6	47.7	47.4
Unemployed.....	1,694	1,707	1,680	1,696	1,634	1,556	1,578	1,534	1,555	1,568	1,519	1,537	1,512
Unemployment rate.....	18.8	19.1	18.5	18.3	17.5	16.6	16.9	16.1	16.1	16.3	15.8	16.2	16.1
White													
Total noninstitutional population ¹	37,602	38,105	38,574	39,084	39,620	40,107	40,568	41,028	41,526	42,034	42,521	42,977	43,462
Civilian noninstitutional population ¹	35,823	36,326	36,812	37,333	37,870	38,364	38,839	39,323	39,822	40,336	40,857	41,330	41,821
Civilian labor force.....	84,294	84,582	85,149	85,923	86,222	87,014	87,488	88,232	88,673	89,427	90,301	90,073	90,766
Percent of civilian population.....	62.1	62.0	62.2	62.6	62.5	62.9	63.0	63.3	63.4	63.7	64.1	63.7	64.0
Employed.....	78,342	78,640	79,417	80,426	81,033	82,037	82,760	83,658	84,056	84,901	85,807	85,621	86,106
Percent of total population.....	56.9	56.9	57.3	57.8	58.0	58.6	58.9	59.3	59.4	59.8	60.2	59.9	60.0
Unemployed.....	5,952	5,942	5,732	5,497	5,189	4,977	4,723	4,574	4,618	4,526	4,494	4,452	4,660
Unemployment rate.....	7.1	7.0	6.7	6.4	6.0	5.7	5.4	5.2	5.2	5.1	5.0	4.9	5.1
Black and other													
Total noninstitutional population ¹	18,766	18,885	19,008	19,139	19,279	19,424	19,557	19,687	19,829	20,003	20,142	20,282	20,432
Civilian noninstitutional population ¹	18,401	18,517	18,634	18,761	18,894	19,035	19,164	19,282	19,413	19,585	19,713	19,851	19,985
Civilian labor force.....	10,918	11,046	11,099	11,186	11,334	11,564	11,783	11,894	12,029	12,146	12,185	12,208	12,370
Percent of civilian population.....	59.3	59.6	59.6	59.6	60.0	60.8	61.5	61.7	62.0	62.0	61.8	61.5	61.9
Employed.....	9,496	9,580	9,663	9,745	9,807	10,035	10,322	10,455	10,623	10,751	10,793	10,795	11,036
Percent of total population.....	50.6	50.7	50.8	50.9	50.9	51.7	52.8	53.1	53.6	53.7	53.6	53.2	54.0
Unemployed.....	1,421	1,466	1,437	1,441	1,527	1,529	1,461	1,439	1,406	1,395	1,393	1,413	1,335
Unemployment rate.....	13.0	13.3	12.9	12.9	13.5	13.2	12.4	12.1	11.7	11.5	11.4	11.6	10.8

¹ The population and Armed Forces figures are not adjusted for seasonal variations.

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

HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES

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

[Numbers in thousands]

Full- and part-time employment status, sex, and age	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
FULL TIME													
Total, 16 years and over:													
Civilian labor force	81,003	81,595	82,007	82,723	83,205	83,761	84,501	85,255	85,941	86,402	87,321	87,455	87,816
Employed ¹	75,092	75,615	76,341	77,227	77,842	78,644	79,646	80,592	81,213	81,871	82,794	82,915	83,107
Unemployed	5,911	5,979	5,666	5,496	5,363	5,117	4,854	4,662	4,728	4,531	4,527	4,540	4,709
Unemployment rate	7.3	7.3	6.9	6.6	6.4	6.1	5.7	5.5	5.5	5.2	5.2	5.2	5.4
Males, 20 years and over:													
Civilian labor force	52,025	52,218	52,110	52,156	52,193	52,434	52,615	52,691	52,742	53,127	53,711	53,656	53,905
Employed ¹	46,300	46,411	46,705	47,089	47,337	47,843	48,231	48,609	48,733	49,170	49,729	49,724	49,718
Unemployed	2,863	2,904	2,702	2,534	2,428	2,296	2,192	2,041	2,005	1,979	1,991	1,966	2,094
Unemployment rate	5.8	5.9	5.5	5.1	4.9	4.6	4.3	4.0	4.0	3.9	3.8	3.8	4.0
Females, 20 years and over:													
Civilian labor force	29,094	29,479	29,654	30,030	30,348	30,465	30,811	31,131	31,668	31,816	32,076	32,341	32,702
Employed ¹	24,928	25,296	25,621	25,991	26,310	26,575	27,232	27,520	27,972	28,462	28,675	28,827	29,170
Unemployed	2,083	2,092	2,017	2,019	2,019	1,945	1,790	1,805	1,848	1,677	1,700	1,757	1,766
Unemployment rate	7.7	7.6	7.3	7.2	7.1	6.8	6.2	6.2	6.2	5.6	5.6	5.7	5.7
Both sexes, 16-19 years:													
Civilian labor force	5,795	5,877	5,909	6,033	6,027	5,979	5,929	6,095	6,258	5,990	6,062	5,999	5,918
Employed ¹	3,864	3,909	4,015	4,147	4,195	4,226	4,183	4,463	4,509	4,240	4,389	4,365	4,219
Unemployed	965	984	947	943	916	877	873	816	875	875	837	817	850
Unemployment rate	20.0	20.1	19.1	18.5	17.9	17.2	17.3	15.5	16.2	17.1	16.0	15.8	16.8
PART TIME													
Total, 16 years and over:													
Civilian labor force	14,263	14,013	14,257	14,362	14,406	14,770	14,766	14,831	14,807	15,117	15,169	14,840	15,407
Employed ¹	12,801	12,594	12,753	12,909	13,045	13,398	13,435	13,468	13,501	13,748	13,808	13,505	14,114
Unemployed	1,462	1,420	1,504	1,453	1,361	1,372	1,332	1,363	1,306	1,369	1,361	1,335	1,293
Unemployment rate	10.3	10.1	10.5	10.1	9.4	9.3	9.0	9.2	8.8	9.1	9.0	9.0	8.4
Males, 20 years and over:													
Civilian labor force	2,556	2,598	2,683	2,667	2,717	2,762	2,738	2,719	2,699	2,719	2,675	2,613	2,781
Employed ¹	2,339	2,380	2,450	2,437	2,517	2,551	2,543	2,535	2,512	2,536	2,509	2,444	2,588
Unemployed	217	218	233	230	200	210	195	184	188	183	166	169	193
Unemployment rate	8.5	8.4	8.7	8.6	7.3	7.6	7.1	6.8	7.0	6.7	6.2	6.5	6.9
Females, 20 years and over:													
Civilian labor force	7,490	7,335	7,457	7,527	7,486	7,748	7,733	7,883	7,831	7,918	8,092	7,917	8,267
Employed ¹	6,970	6,862	6,929	7,045	7,040	7,272	7,311	7,409	7,391	7,434	7,588	7,457	7,827
Unemployed	520	473	529	482	447	476	422	474	440	485	504	460	440
Unemployment rate	6.9	6.5	7.1	6.4	6.0	6.1	5.5	6.0	5.6	6.1	6.2	5.8	5.3
Both sexes, 16-19 years:													
Civilian labor force	4,216	4,080	4,117	4,168	4,203	4,261	4,295	4,229	4,276	4,480	4,401	4,309	4,358
Employed ¹	3,491	3,352	3,375	3,427	3,489	3,574	3,580	3,524	3,598	3,779	3,710	3,604	3,699
Unemployed	725	728	742	742	714	686	714	704	678	701	691	706	660
Unemployment rate	17.2	17.8	18.0	17.8	17.0	16.1	16.6	16.7	15.9	15.7	15.7	16.4	15.1

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Characteristics	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
WHITE													
Total, 16 years and over:													
Civilian labor force	84,294	84,582	85,149	85,923	86,222	87,014	87,484	88,232	88,673	89,427	90,301	90,073	90,766
Employed	78,342	78,640	79,417	80,426	81,033	82,037	82,760	83,658	84,056	84,901	85,807	85,621	86,106
Unemployed	5,952	5,942	5,732	5,497	5,189	4,977	4,723	4,574	4,618	4,526	4,494	4,452	4,660
Unemployment rate	7.1	7.0	6.7	6.4	6.0	5.7	5.4	5.2	5.2	5.1	5.0	4.9	5.1
Males, 20 years and over:													
Civilian labor force	46,341	46,474	46,603	46,821	46,980	47,332	47,495	47,685	47,700	48,032	48,544	48,449	48,622
Employed	43,802	43,947	44,210	44,595	44,934	45,378	45,619	45,965	45,985	46,356	46,873	46,810	46,817
Unemployed	2,538	2,527	2,392	2,226	2,045	1,955	1,876	1,720	1,715	1,676	1,671	1,639	1,805
Unemployment rate	5.5	5.4	5.1	4.8	4.4	4.1	3.9	3.6	3.6	3.5	3.4	3.4	3.7
Females, 20 years and over:													
Civilian labor force	29,852	30,058	30,358	30,774	30,948	31,311	31,644	32,075	32,403	32,822	33,168	33,198	33,779
Employed	27,789	28,016	28,369	28,838	29,046	29,462	29,986	30,357	30,684	31,174	31,515	31,541	32,120
Unemployed	2,063	2,042	1,988	1,936	1,902	1,849	1,658	1,717	1,720	1,648	1,653	1,657	1,659
Unemployment rate	6.9	6.8	6.5	6.3	6.1	5.9	5.2	5.4	5.3	5.0	5.0	5.0	4.9
Both sexes, 16 to 19 years:													
Civilian labor force	8,102	8,050	8,188	8,328	8,295	8,370	8,345	8,472	8,570	8,573	8,589	8,426	8,365
Employed	6,751	6,677	6,837	6,992	7,053	7,197	7,156	7,335	7,387	7,371	7,419	7,271	7,170
Unemployed	1,351	1,373	1,351	1,336	1,242	1,173	1,189	1,137	1,183	1,202	1,170	1,155	1,196
Unemployment rate	16.7	17.1	16.5	16.0	15.0	14.0	14.2	13.4	13.8	14.0	13.6	13.7	14.3
BLACK AND OTHER													
Total, 16 years and over:													
Civilian labor force	10,918	11,046	11,099	11,186	11,334	11,564	11,783	11,894	12,029	12,146	12,185	12,208	12,370
Employed	9,496	9,580	9,663	9,745	9,807	10,035	10,322	10,455	10,623	10,751	10,793	10,795	11,036
Unemployed	1,421	1,466	1,437	1,441	1,527	1,529	1,461	1,439	1,406	1,395	1,393	1,413	1,335
Unemployment rate	13.0	13.3	12.9	12.9	13.5	13.2	12.4	12.1	11.7	11.5	11.4	11.6	10.8
Males, 20 years and over:													
Civilian labor force	5,369	5,434	5,487	5,488	5,476	5,573	5,669	5,700	5,718	5,835	5,842	5,847	5,959
Employed	4,823	4,843	4,940	4,963	4,891	5,021	5,154	5,205	5,236	5,349	5,351	5,362	5,472
Unemployed	546	591	547	525	585	552	514	494	482	485	491	486	487
Unemployment rate	10.2	10.9	10.0	9.6	10.7	9.9	9.1	8.7	8.4	8.3	8.4	8.3	8.2
Females, 20 years and over:													
Civilian labor force	4,629	4,688	4,712	4,781	4,859	4,979	5,085	5,149	5,242	5,256	5,273	5,309	5,403
Employed	4,096	4,153	4,159	4,214	4,308	4,392	4,535	4,589	4,687	4,719	4,727	4,751	4,868
Unemployed	533	535	553	567	551	587	550	560	555	537	545	557	535
Unemployment rate	11.5	11.4	11.7	11.9	11.3	11.8	10.8	10.9	10.6	10.2	10.3	10.5	9.9
Both sexes, 16 to 19 years:													
Civilian labor force	920	924	900	917	999	1,012	1,030	1,045	1,070	1,056	1,071	1,052	1,009
Employed	577	585	563	568	608	621	633	661	700	683	715	682	696
Unemployed	342	339	337	349	391	391	397	385	370	373	356	370	313
Unemployment rate	37.2	36.7	37.4	38.0	39.1	38.6	38.6	36.8	34.6	35.3	33.3	35.2	31.1

HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES

A-47. Major unemployment indicators, seasonally adjusted

(Unemployment rates)

Selected categories	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTICS													
Total (all civilian workers)	7.7	7.7	7.5	7.2	6.9	6.6	6.2	6.0	6.0	5.8	5.7	5.7	5.8
Males, 20 years and over	5.9	6.0	5.7	5.3	5.0	4.7	4.5	4.2	4.1	4.0	4.0	3.9	4.2
Females, 20 years and over	7.6	7.4	7.2	7.0	6.9	6.7	6.0	6.1	6.1	5.8	5.7	5.7	5.6
Both sexes, 16-19 years	18.8	19.1	18.5	18.3	17.5	16.6	16.9	16.1	16.1	16.3	15.8	16.2	16.1
White	7.1	7.0	6.7	6.4	6.0	5.7	5.4	5.2	5.2	5.1	5.0	4.9	5.1
Black and other	13.0	13.3	12.9	12.9	13.5	13.2	12.4	12.1	11.7	11.5	11.4	11.6	10.8
Married men, spouse present	4.3	4.2	4.0	3.6	3.4	3.3	3.0	2.8	2.7	2.5	2.6	2.6	2.9
Married women, spouse present	7.3	7.1	6.8	6.7	6.4	6.2	5.4	5.6	5.6	5.5	5.2	5.2	5.0
Women who head families	10.3	10.0	9.6	9.3	9.7	8.8	8.2	9.4	8.6	7.7	8.1	8.8	7.9
Full-time workers	7.3	7.3	6.9	6.6	6.4	6.1	5.7	5.5	5.5	5.2	5.2	5.2	5.4
Part-time workers	10.3	10.1	10.5	10.1	9.4	9.3	9.0	9.2	8.8	9.1	9.0	9.0	8.4
Unemployed 15 weeks and over ¹	2.4	2.4	2.2	2.0	1.9	1.8	1.6	1.4	1.3	1.2	1.2	1.2	1.1
Labor force time lost ²	8.2	8.3	8.0	7.6	7.4	7.2	6.7	6.5	6.6	6.2	6.2	6.4	6.4
OCCUPATION													
White-collar workers	4.7	4.5	4.6	4.3	4.1	4.1	3.6	3.6	3.6	3.3	3.4	3.3	3.4
Professional and technical	3.1	3.2	3.2	3.1	3.0	2.8	2.6	2.5	2.6	2.7	2.3	2.2	2.6
Managers and administrators, except farm	3.4	3.0	3.0	2.9	2.5	2.7	2.2	2.0	2.1	2.0	2.0	2.2	2.1
Sales workers	5.5	5.3	5.6	5.4	5.2	4.8	4.2	4.4	4.2	3.6	4.1	4.2	3.8
Clerical workers	6.6	6.1	6.4	5.8	5.7	5.6	4.9	5.2	4.9	4.5	4.7	4.6	4.6
Blue-collar workers	9.6	9.4	8.6	8.1	7.9	7.5	7.2	6.7	6.8	6.7	6.5	6.7	7.2
Craft and kindred workers	7.0	6.8	6.2	5.5	5.4	5.2	5.1	4.4	4.4	4.6	4.6	4.1	4.4
Operatives, except transport	10.8	10.8	9.8	9.5	9.6	9.0	8.3	8.2	8.4	7.6	7.6	8.2	8.9
Transport equipment operatives	7.8	7.9	7.4	6.5	6.6	5.7	5.3	5.3	5.5	4.8	5.0	5.6	6.1
Nonfarm laborers	14.2	13.4	12.9	12.3	11.5	11.3	11.4	9.7	10.3	11.2	9.7	10.7	11.1
Service workers	8.6	9.0	8.4	8.5	8.0	7.8	7.5	7.5	7.3	7.4	7.4	7.3	7.0
Farm workers	4.3	5.2	5.1	4.7	4.4	4.2	4.2	3.3	3.8	3.8	3.2	3.3	4.2
INDUSTRY													
Nonegricultural private wage and salary workers ³	8.0	7.9	7.5	7.1	6.8	6.6	6.2	5.9	5.9	5.7	5.6	5.6	5.9
Construction	16.4	14.8	14.5	12.8	11.3	11.3	11.2	9.6	9.9	11.4	10.8	9.9	9.3
Manufacturing	7.8	7.8	7.1	6.6	6.7	6.2	5.7	5.5	5.5	5.1	5.0	5.4	6.0
Durable goods	7.3	7.5	6.8	6.0	6.2	5.7	5.2	4.9	5.1	4.5	4.3	4.6	5.5
Nondurable goods	8.5	8.3	7.7	7.5	7.6	6.8	6.5	6.5	6.1	5.9	6.1	6.6	6.8
Transportation and public utilities	5.0	5.2	4.9	4.5	4.7	4.6	3.8	3.9	3.8	3.3	3.5	3.1	3.9
Wholesale and retail trade	8.8	8.6	8.5	8.1	7.9	7.5	7.2	6.8	6.7	6.7	6.5	6.6	6.4
Finance and service industries	6.5	6.6	6.3	6.2	5.7	5.7	5.2	5.0	5.2	4.9	4.9	4.8	5.0
Government workers	4.3	4.3	4.3	4.1	4.1	4.2	3.8	4.0	3.9	3.9	3.9	3.6	3.5
Agricultural wage and salary workers	11.5	12.7	12.6	11.8	10.2	9.7	9.5	8.1	9.0	8.4	7.9	8.5	10.2

¹ Unemployment as a percent of civilian labor force.

as a percent of potentially available labor force hours.

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

³ Includes mining, not shown separately.

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Weeks of unemployment	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
DURATION													
Both sexes, 16 years and over:													
Less than 5 weeks	2,856	2,837	2,887	2,951	2,796	2,773	2,727	2,794	2,848	2,809	2,736	2,884	2,917
5 to 14 weeks	2,246	2,292	2,171	2,058	2,101	1,991	1,897	1,869	1,876	1,847	1,868	1,864	1,921
15 weeks and over	2,299	2,294	2,126	1,896	1,831	1,730	1,563	1,385	1,272	1,240	1,272	1,178	1,125
15 to 26 weeks	1,060	1,032	942	844	901	862	840	735	652	714	723	671	630
27 weeks and over	1,239	1,262	1,185	1,052	929	869	723	650	620	526	549	507	496
Average (mean duration, in weeks	15.5	15.2	14.8	14.6	13.9	13.6	12.7	12.2	11.6	11.2	11.4	10.8	10.4
Median duration, in weeks	7.8	8.0	7.4	6.9	7.1	6.9	6.6	5.7	6.0	5.6	6.0	5.3	5.6
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	38.6	38.2	40.2	42.7	41.6	42.7	44.1	46.2	47.5	47.6	46.6	48.7	48.9
5 to 14 weeks	30.3	30.9	30.2	29.8	31.2	30.7	30.7	30.9	31.3	31.3	31.8	31.5	32.2
15 weeks and over	31.1	30.9	29.6	27.5	27.2	26.6	25.3	22.9	21.2	21.0	21.6	19.9	18.9
15 to 26 weeks	14.3	13.9	13.1	12.2	13.4	13.3	13.6	12.2	10.9	12.1	12.3	11.3	10.6
27 weeks and over	16.7	17.0	16.5	15.2	13.8	13.4	11.7	10.7	10.3	8.9	9.3	8.6	8.3

A-49. Rates of unemployment by sex and age, seasonally adjusted

Sex and age	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	7.7	7.7	7.5	7.2	6.9	6.6	6.2	6.0	6.0	5.8	5.7	5.7	5.8
16 to 19 years	18.8	19.1	18.5	18.3	17.5	16.6	16.9	16.1	16.1	16.3	15.8	16.2	16.1
16 to 17 years	21.0	21.4	20.8	20.5	19.8	18.7	19.8	18.6	19.3	19.5	18.5	18.3	17.3
18 to 19 years	17.3	17.4	16.9	16.7	16.0	15.1	14.8	14.1	13.8	13.9	13.7	14.5	15.3
20 to 24 years	11.7	12.3	11.5	11.0	10.8	10.3	10.2	9.5	9.4	9.0	8.7	8.8	9.2
25 years and over	5.6	5.5	5.2	5.0	4.8	4.6	4.1	4.1	4.1	3.9	3.9	3.9	3.9
25 to 54 years	5.8	5.7	5.5	5.2	5.0	4.8	4.3	4.3	4.3	4.1	4.1	4.1	4.1
55 years and over	4.8	4.3	4.4	4.1	3.9	4.0	3.3	3.2	3.2	2.9	3.0	3.1	3.1
Males, 16 years and over	7.0	7.1	6.8	6.4	6.0	5.7	5.6	5.1	5.1	5.1	5.0	4.9	5.1
16 to 19 years	18.7	19.3	18.2	17.7	17.2	15.9	16.4	15.1	15.2	16.2	16.2	15.5	15.7
16 to 17 years	20.9	21.8	20.3	20.1	19.9	17.8	19.7	18.2	18.5	20.2	19.4	17.6	16.4
18 to 19 years	17.0	17.4	16.7	16.0	15.2	14.5	13.9	12.8	12.7	13.1	13.8	13.9	15.3
20 to 24 years	11.8	12.4	11.4	10.8	10.8	9.8	10.2	8.6	8.8	8.7	8.3	7.9	8.8
25 years and over	5.0	4.9	4.6	4.3	4.0	3.9	3.5	3.3	3.3	3.2	3.2	3.2	3.4
25 to 54 years	5.1	5.1	4.7	4.4	4.1	3.9	3.6	3.4	3.4	3.3	3.3	3.2	3.4
55 years and over	4.5	4.1	4.3	3.7	3.7	3.7	3.2	3.3	3.1	2.6	2.8	3.0	3.2
Females, 16 years and over	8.8	8.6	8.5	8.3	8.1	7.9	7.2	7.3	7.3	6.9	6.7	6.9	6.7
16 to 19 years	18.9	18.7	18.9	19.0	17.9	17.4	17.4	17.2	17.1	16.4	15.3	17.0	16.5
16 to 17 years	21.2	20.9	21.5	21.0	19.6	19.7	19.8	19.1	20.3	18.7	17.6	19.1	18.4
18 to 19 years	17.5	17.3	17.2	17.4	16.9	15.8	15.9	15.6	15.0	14.8	13.7	15.2	15.4
20 to 24 years	11.6	12.1	11.7	11.2	10.9	10.9	10.3	10.6	10.1	9.3	9.1	9.7	9.6
25 years and over	6.7	6.4	6.2	6.1	6.0	5.8	5.0	5.1	5.2	4.9	4.9	4.9	4.8
25 to 54 years	7.0	6.8	6.6	6.5	6.3	6.1	5.4	5.6	5.6	5.3	5.3	5.3	5.1
55 years and over	5.3	4.7	4.6	4.6	4.4	4.4	3.5	3.1	3.3	3.4	3.4	3.2	3.0

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

[Numbers in thousands]

Reason for unemployment	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
NUMBER OF UNEMPLOYED													
Both sexes, 16 years and over:													
Job losers	3,636	3,607	3,341	3,085	3,048	2,846	2,621	2,516	2,452	2,423	2,458	2,413	2,621
On layoff	1,084	1,012	917	840	855	763	717	658	693	702	778	784	863
Other job losers	2,552	2,595	2,424	2,245	2,192	2,083	1,903	1,858	1,759	1,722	1,681	1,629	1,758
Job leavers	954	880	908	912	864	877	872	853	848	836	873	888	850
Reentrants	1,931	1,953	1,976	1,976	1,869	1,884	1,831	1,776	1,848	1,804	1,745	1,763	1,773
New entrants	872	935	953	981	948	871	902	871	854	841	840	813	739
PERCENT DISTRIBUTION													
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	49.2	48.9	46.5	44.4	45.3	43.9	42.1	41.8	40.9	41.0	41.6	41.1	43.8
On layoff	14.7	13.7	12.8	12.1	12.7	11.8	11.5	10.9	11.5	11.9	13.1	13.3	14.4
Other job losers	34.5	35.2	33.8	32.3	32.6	32.2	30.6	30.9	29.3	29.2	28.4	27.7	29.4
Job leavers	12.9	11.9	12.7	13.1	12.8	13.5	14.0	14.2	14.1	14.2	14.8	15.1	14.2
Reentrants	26.1	26.5	27.5	28.4	27.8	29.1	29.4	29.5	30.8	30.6	29.5	30.0	29.6
New entrants	11.8	12.7	13.3	14.1	14.1	13.4	14.5	14.5	14.2	14.2	14.2	13.8	12.4
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE													
Job losers	3.8	3.8	3.5	3.2	3.1	2.9	2.6	2.5	2.4	2.4	2.4	2.4	2.5
On layoff	1.0	.9	.9	.9	.9	.9	.9	.9	.8	.8	.9	.9	.8
Other job losers	2.0	2.0	2.1	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.7	1.7	1.7
Job leavers .....	.9	1.0	1.0	1.0	1.0	.9	.9	.9	.8	.8	.8	.8	.7

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

[In thousands]

Sex and age	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
Total, 16 years and over	87,860	88,191	89,070	90,157	90,898	92,046	93,084	94,099	94,726	95,616	96,596	96,415	97,208
16 to 19 years	7,329	7,252	7,393	7,559	7,682	7,814	7,782	7,995	8,100	8,044	8,116	7,958	7,896
16 to 17 years	2,968	2,894	2,980	3,038	3,110	3,207	3,173	3,290	3,317	3,295	3,350	3,242	3,198
18 to 19 years	4,360	4,367	4,428	4,513	4,551	4,614	4,622	4,699	4,766	4,762	4,790	4,703	4,663
20 to 24 years	12,360	12,426	12,652	12,746	12,934	13,079	13,204	13,450	13,592	13,745	13,937	13,869	13,910
25 years and over	68,150	68,533	69,030	69,842	70,257	71,177	72,098	72,644	73,065	73,859	74,548	74,594	75,387
25 to 54 years	54,645	54,941	55,474	56,113	56,590	57,226	58,098	58,473	58,910	59,580	60,142	60,290	61,088
55 years and over	13,527	13,588	13,563	13,711	13,691	13,944	13,998	14,151	14,129	14,268	14,409	14,271	14,317
Males, 16 years and over	52,569	52,692	53,136	53,659	53,978	54,666	54,992	55,441	55,568	55,974	56,519	56,419	56,521
16 to 19 years	3,936	3,906	3,980	4,121	4,135	4,269	4,215	4,290	4,330	4,270	4,276	4,248	4,212
16 to 17 years	1,630	1,592	1,623	1,688	1,711	1,794	1,756	1,782	1,784	1,743	1,787	1,762	1,733
18 to 19 years	2,313	2,314	2,366	2,422	2,417	2,475	2,472	2,498	2,544	2,537	2,505	2,471	2,460
20 to 24 years	6,773	6,853	6,962	6,949	7,059	7,149	7,166	7,342	7,353	7,451	7,547	7,553	7,524
25 years and over	41,856	41,944	42,191	42,583	42,779	43,255	43,606	43,802	43,884	44,259	44,691	44,617	44,786
25 to 54 years	33,423	33,518	33,749	34,047	34,252	34,601	34,948	35,062	35,169	35,434	35,811	35,836	35,980
55 years and over	8,436	8,439	8,446	8,525	8,529	8,663	8,660	8,726	8,717	8,833	8,879	8,752	8,800
Females, 16 years and over	35,291	35,499	35,934	36,498	36,920	37,380	38,092	38,658	39,158	39,642	40,077	39,996	40,687
16 to 19 years	3,393	3,346	3,413	3,438	3,547	3,546	3,566	3,706	3,770	3,774	3,840	3,709	3,685
16 to 17 years	1,338	1,302	1,357	1,351	1,398	1,413	1,417	1,507	1,533	1,552	1,562	1,480	1,466
18 to 19 years	2,046	2,053	2,062	2,092	2,133	2,139	2,150	2,201	2,223	2,225	2,285	2,233	2,203
20 to 24 years	5,587	5,573	5,690	5,797	5,875	5,930	6,038	6,108	6,238	6,294	6,389	6,316	6,386
25 years and over	26,294	26,590	26,839	27,259	27,478	27,922	28,492	28,843	29,121	29,600	29,857	29,977	30,601
25 to 54 years	21,222	21,423	21,725	22,066	22,338	22,624	23,150	23,411	23,741	24,146	24,330	24,454	25,108
55 years and over	5,091	5,149	5,117	5,186	5,162	5,281	5,338	5,425	5,412	5,435	5,530	5,518	5,518

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-52. Employed persons by selected social and economic categories, seasonally adjusted

[In thousands]

Selected categories	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
CHARACTERISTICS													
Total, 16 years and over	87,860	88,191	89,070	90,157	90,898	92,046	93,084	94,099	94,726	95,616	96,596	96,415	97,208
Married men, spouse present	38,144	38,009	38,241	38,444	38,361	38,539	38,596	38,597	38,650	38,930	39,269	38,987	39,161
Married women, spouse present	20,419	20,488	20,731	20,908	20,969	21,286	21,648	21,719	21,902	22,255	22,581	22,475	22,877
OCCUPATION													
White-collar workers	43,824	44,293	44,500	44,770	45,318	46,146	46,609	46,968	47,384	47,880	48,803	49,143	49,655
Professional and technical Managers and administrators, except farm	13,433	13,482	13,480	13,561	13,769	13,950	14,063	14,277	14,226	14,411	14,953	15,166	15,042
Sales workers	9,340	9,465	9,516	9,520	9,697	9,906	10,100	10,101	10,151	10,072	10,381	10,449	10,696
Clerical workers	5,505	5,648	5,696	5,699	5,734	5,781	5,891	5,894	5,927	6,090	6,088	6,079	6,120
Blue-collar workers	15,547	15,698	15,809	15,990	16,117	16,509	16,555	16,687	17,079	17,308	17,381	17,449	17,798
Craft and kindred workers	28,978	29,172	29,801	30,154	30,273	30,609	31,027	31,494	31,560	32,050	32,303	31,789	32,001
Operatives, except transport Transport equipment operatives	11,307	11,370	11,665	11,867	11,918	12,069	12,158	12,313	12,468	12,604	12,861	12,830	12,881
Nonfarm laborers	10,062	10,114	10,327	10,336	10,337	10,429	10,693	10,866	10,866	11,081	11,020	10,691	10,907
Service workers	3,283	3,304	3,428	3,485	3,481	3,511	3,536	3,516	3,496	3,620	3,620	3,604	3,601
Farm workers	4,327	4,384	4,380	4,466	4,538	4,600	4,639	4,800	4,729	4,745	4,802	4,663	4,612
.....	12,144	11,993	12,095	12,423	12,474	12,571	12,690	12,880	12,808	12,989	12,801	12,869	12,695
.....	2,832	2,780	2,698	2,822	2,710	2,788	2,814	2,769	2,815	2,795	2,768	2,636	2,699
MAJOR INDUSTRY AND CLASS OF WORKER													
Agriculture:													
Wage and salary workers	1,317	1,325	1,288	1,324	1,316	1,393	1,386	1,428	1,417	1,442	1,404	1,415	1,386
Self-employed workers	1,651	1,597	1,535	1,598	1,561	1,582	1,585	1,599	1,633	1,609	1,564	1,515	1,621
Unpaid family workers	343	345	347	372	316	342	347	291	322	311	321	282	310
Nonagricultural industries:													
Wage and salary workers	78,397	78,755	79,545	80,401	81,036	82,204	83,036	84,031	84,453	85,507	86,369	86,211	86,465
Government	15,098	14,946	14,979	15,040	15,208	15,381	15,247	15,272	15,265	15,373	15,245	15,416	15,364
Private industries	63,298	63,810	64,566	65,361	65,828	66,823	67,789	68,759	69,188	70,133	71,124	70,795	71,101
Private households	1,387	1,391	1,357	1,353	1,394	1,395	1,372	1,392	1,367	1,322	1,278	1,191	1,251
Other industries	61,912	62,419	63,209	64,008	64,433	65,428	66,417	67,367	67,821	68,811	69,846	69,604	69,849
Self-employed workers	5,675	5,753	5,860	5,982	6,051	6,128	6,296	6,311	6,220	6,400	6,582	6,564	6,695
Unpaid family workers	444	467	483	509	508	469	475	487	468	456	459	473	475
PERSONS AT WORK¹													
Nonagricultural industries	79,266	79,901	80,717	81,418	82,579	83,243	84,034	85,736	86,260	86,737	87,679	87,305	89,017
Full-time schedules	64,936	65,446	66,144	66,889	67,741	68,257	69,189	70,431	71,073	71,500	72,361	72,087	73,204
Part time for economic reasons	3,244	3,411	3,350	3,273	3,328	3,230	3,144	3,330	3,272	3,118	3,162	3,345	3,268
Usually work full time	1,325	1,271	1,261	1,259	1,273	1,235	1,169	1,284	1,327	1,218	1,216	1,309	1,376
Usually work part time	1,919	2,139	2,090	2,014	2,055	1,996	1,975	2,046	1,946	1,899	1,945	2,036	1,893
Part time for noneconomic reasons	11,087	11,044	11,222	11,256	11,510	11,755	11,701	11,975	11,915	12,119	12,157	11,873	12,545

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

**HOUSEHOLD DATA
SEASONALLY ADJUSTED
QUARTERLY AVERAGES**

A-53. Job desire of persons not in labor force by current activity, reasons for not seeking work, sex, and race, seasonally adjusted

[In thousands]

Characteristic	1976		1977				1978				1979		
	III	IV	I	II	III	IV	I	II	III	IV	I	II	III
TOTAL													
Both sexes, 16 years and over:													
Total not in labor force	59,019	59,260	59,198	58,988	59,157	58,861	58,741	58,478	58,482	58,398	58,095	58,886	58,604
Do not want job now	54,561	53,775	53,798	53,210	53,244	53,108	53,747	53,252	52,745	53,110	53,492	53,753	52,711
Current activity:													
Going to school	6,736	6,324	6,174	6,153	6,202	6,191	6,255	6,227	6,010	5,964	5,932	5,974	5,970
Ill, disabled	4,835	4,604	4,718	4,525	4,539	4,397	4,508	4,598	4,399	4,633	4,566	4,573	4,455
Keeping house	30,688	30,307	30,651	30,146	30,064	30,049	29,774	29,723	29,351	29,242	29,385	29,308	28,628
Retired	8,788	8,789	8,743	9,023	9,043	9,041	9,449	9,172	9,352	9,475	9,638	9,950	9,964
Other	3,519	3,752	3,511	3,363	3,395	3,430	3,761	3,533	3,594	3,796	3,971	3,949	3,695
Want a job now	4,329	5,450	5,530	5,741	5,884	5,561	5,428	5,260	5,486	5,239	5,262	5,164	5,668
Reason not looking:													
School attendance	1,148	1,506	1,513	1,499	1,641	1,523	1,404	1,296	1,518	1,359	1,338	1,357	1,651
Ill health, disability	495	639	688	783	804	751	697	755	706	736	755	713	775
Home responsibilities	1,038	1,288	1,220	1,280	1,287	1,217	1,214	1,237	1,242	1,210	1,212	1,225	1,286
Think cannot get job	782	995	956	1,071	1,028	970	914	851	853	760	724	826	739
Job-market factors	554	729	669	746	719	670	635	541	620	485	483	517	540
Personal factors	228	266	287	325	309	340	279	310	232	275	241	309	199
Other reasons ¹	867	1,021	1,154	1,108	1,124	1,100	1,199	1,121	1,167	1,173	1,232	1,043	1,217
Males													
Total not in labor force	16,336	16,438	16,499	16,503	16,680	16,461	16,491	16,591	16,787	16,706	16,456	16,956	17,002
Do not want job now	15,193	14,763	14,826	14,666	14,782	14,677	14,902	14,905	15,026	14,990	15,045	15,409	15,147
Want a job now	1,300	1,666	1,675	1,770	1,826	1,701	1,749	1,637	1,733	1,665	1,691	1,530	1,879
Reason not looking:													
School attendance	589	720	757	777	794	751	703	638	763	702	659	674	866
Ill health, disability	203	274	303	332	327	326	323	336	318	335	373	276	345
Think cannot get job	264	343	291	313	350	309	344	305	291	275	294	264	294
Other reasons ¹	244	329	324	348	354	315	378	359	361	354	364	316	374
Females													
Total not in labor force	42,683	42,823	42,699	42,485	42,476	42,400	42,250	41,887	41,695	41,692	41,639	41,930	41,602
Do not want job now	39,368	39,012	38,972	38,544	38,461	38,431	38,844	38,347	37,719	38,120	38,447	38,344	37,564
Want a job now	3,029	3,784	3,855	3,971	4,059	3,860	3,679	3,623	3,753	3,574	3,571	3,634	3,789
Reason not looking:													
School attendance	559	785	756	722	847	771	701	658	755	658	679	683	785
Ill health, disability	292	365	384	451	477	425	374	420	388	402	381	437	430
Home responsibilities	1,038	1,288	1,220	1,280	1,287	1,217	1,214	1,237	1,242	1,210	1,212	1,225	1,286
Think cannot get job	518	652	665	758	677	661	570	546	561	485	430	562	445
Other reasons ¹	623	693	830	760	770	785	820	762	806	819	868	727	843
White													
Total not in labor force	51,529	51,744	51,663	51,410	51,648	51,350	51,355	51,091	51,149	50,909	50,556	51,257	51,055
Do not want job now	48,112	47,512	47,363	47,156	47,280	46,918	47,382	47,275	46,870	46,840	46,817	47,437	46,785
Want a job now	3,421	4,147	4,283	4,334	4,316	4,267	4,168	3,980	4,339	3,887	4,013	3,925	4,363
Reason not looking:													
School attendance	941	1,097	1,176	1,078	1,136	1,125	1,033	943	1,272	1,007	981	943	1,300
Ill health, disability	364	437	520	643	576	537	499	550	526	507	536	525	537
Home responsibilities	816	1,023	1,000	976	950	971	980	961	956	894	978	943	975
Think cannot get job	587	742	683	743	720	712	647	584	591	531	513	585	546
Other reasons ¹	713	847	905	894	933	923	1,010	943	994	947	1,005	933	1,005
Black and other													
Total not in labor force	7,483	7,471	7,535	7,575	7,560	7,471	7,381	7,388	7,384	7,439	7,528	7,643	7,615
Do not want job now	6,512	6,184	6,250	6,122	6,046	6,215	6,102	6,108	6,098	6,123	6,275	6,413	6,264
Want a job now	934	1,274	1,297	1,371	1,577	1,255	1,309	1,267	1,244	1,321	1,287	1,206	1,367
Reason not looking:													
School attendance	221	403	347	407	495	394	383	341	327	348	370	403	396
Ill health, disability	129	192	181	159	223	195	210	221	173	210	232	194	225
Home responsibilities	244	280	268	283	341	239	270	257	289	309	275	258	327
Think cannot get job	211	258	280	302	319	253	273	253	277	232	210	220	206
Other reasons ¹	128	141	221	219	199	174	174	195	178	222	199	131	213

¹ Includes small number of men not looking for work because of "home responsibilities."

HOUSEHOLD DATA QUARTERLY AVERAGES

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

[In thousands]

Reasons for not seeking work	Total		Age in years								
			16-19		20-24		25-59		60 and over		
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	
TOTAL											
Total not in labor force	57,394	57,562	5,717	5,907	4,030	3,962	22,777	22,222	24,868	25,471	
Do not want a job now	52,276	52,363	4,594	4,706	3,321	3,238	20,046	19,499	24,474	24,922	
Current activity:											
Going to school	3,280	3,233	1,933	2,034	880	755	458	411	10	35	
Ill, disabled	4,519	4,579	47	29	95	137	2,110	2,158	2,427	2,254	
Keeping house	29,602	28,875	666	550	1,783	1,686	15,047	14,476	12,105	12,164	
Retired	9,516	10,112	--	--	--	--	203	216	9,313	9,895	
Other	5,359	5,564	1,948	2,093	563	660	2,228	2,238	619	574	
Want a job now	5,116	5,198	1,123	1,199	710	726	2,730	2,724	553	549	
Reason not looking:											
School attendance	804	826	489	513	168	155	146	152	--	5	
Ill health, disability	681	743	36	48	49	51	437	479	159	166	
Home responsibilities	1,392	1,446	78	102	205	246	1,068	1,068	41	30	
Think cannot get job	905	781	208	200	139	110	398	325	162	145	
Job-market factors	627	544	160	146	110	92	296	231	63	77	
Personal factors	277	236	48	57	29	18	103	95	99	68	
Other reasons ¹	1,334	1,402	312	336	149	164	681	700	191	203	
Males											
Total not in labor force	15,749	15,987	2,429	2,539	1,043	981	3,123	3,064	9,154	9,403	
Do not want a job now	14,318	14,504	1,947	1,987	834	792	2,608	2,595	8,928	9,131	
Current activity:											
Going to school	1,686	1,587	974	962	500	401	210	208	--	15	
Ill, disabled	2,479	2,409	24	19	59	67	1,234	1,185	1,159	1,140	
Keeping house	324	338	18	16	5	2	78	84	223	235	
Retired	7,255	7,511	--	--	--	--	177	170	7,079	7,342	
Other	2,577	2,659	931	990	270	322	909	948	467	399	
Want a job now	1,430	1,483	481	553	209	188	515	468	225	272	
Reason not looking:											
School attendance	388	404	245	286	81	82	63	35	--	1	
Ill health, disability	312	336	21	20	22	18	205	209	64	88	
Think cannot get job	319	312	107	110	41	43	108	79	63	79	
Other reasons ¹	411	431	108	137	65	45	139	145	98	104	
Females											
Total not in labor force	41,644	41,575	3,288	3,367	2,987	2,981	19,655	19,158	15,714	16,069	
Do not want a job now	37,957	37,859	2,647	2,722	2,486	2,445	17,442	16,900	15,388	15,792	
Current activity:											
Going to school	1,593	1,646	957	1,071	379	354	247	200	10	20	
Ill, disabled	2,043	2,170	25	13	35	71	876	974	1,109	1,114	
Keeping house	29,279	28,538	647	534	1,779	1,684	14,973	14,390	11,881	11,925	
Retired	2,261	2,600	--	--	--	--	27	46	2,235	2,555	
Other	2,781	2,905	1,018	1,104	293	336	1,319	1,290	153	174	
Want a job now	3,687	3,716	640	644	501	537	2,216	2,257	328	277	
Reason not looking:											
School attendance	416	422	245	228	88	73	83	117	--	4	
Ill health, disability	369	407	14	26	27	33	232	270	95	78	
Home responsibilities	1,392	1,446	78	102	205	246	1,068	1,068	41	30	
Think cannot get job	587	469	100	90	97	66	290	247	99	66	
Other reasons	923	972	203	198	84	119	543	555	93	99	

¹ Includes small number of men not looking for work because of "home responsibilities."

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

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

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

(In thousands)

Reasons for not seeking work	Total		Age in years						Males		Females	
			16-24		25-59		60 and over					
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
WHITE												
Total not in labor force	50,237	50,175	7,683	7,744	19,997	19,399	22,560	23,029	13,422	13,640	36,815	36,535
Do not want a job now	46,285	46,207	6,401	6,418	17,792	17,238	22,093	22,550	12,391	12,536	33,894	33,671
Current activity:												
Going to school	2,647	2,582	2,265	2,217	377	337	6	27	1,357	1,272	1,290	1,310
Ill, disabled	3,676	3,658	111	123	1,720	1,724	1,842	1,811	2,059	1,988	1,617	1,670
Keeping house	26,916	26,286	2,062	1,944	13,636	13,086	11,220	11,255	262	294	26,654	25,992
Retired	8,667	9,127	--	--	187	204	8,480	8,924	6,656	6,836	2,011	2,291
Other	4,379	4,554	1,963	2,134	1,872	1,887	545	533	2,057	2,146	2,322	2,408
Want a job now	3,951	3,970	1,283	1,326	2,205	2,160	466	479	1,031	1,105	2,920	2,865
Reason not looking:												
School attendance	598	600	476	478	123	116	--	5	281	283	317	317
Ill health, disability	501	513	98	40	335	347	119	125	211	247	290	266
Home responsibilities ¹	1,108	1,132	184	234	889	867	36	30	--	--	1,108	1,132
Think cannot get job	598	548	194	182	265	238	139	127	205	216	393	332
Other reasons	1,146	1,177	380	392	593	592	172	192	334	359	812	818
BLACK AND OTHER												
Total not in labor force	7,156	7,387	2,064	2,122	2,783	2,823	2,309	2,443	2,327	2,347	4,829	5,040
Do not want a job now	5,993	6,158	1,513	1,528	2,253	2,262	2,220	2,373	1,929	1,969	4,064	4,189
Current activity:												
Going to school	632	652	546	572	81	73	4	8	329	315	303	337
Ill, disabled	845	921	31	47	387	434	425	442	418	421	427	500
Keeping house	2,687	2,590	388	289	1,412	1,392	885	910	62	44	2,625	2,546
Retired	849	985	--	--	16	12	831	972	599	676	250	309
Other	980	1,010	548	620	357	351	75	41	521	513	459	497
Want a job now	1,163	1,229	553	594	530	563	87	68	398	533	765	850
Reason not looking:												
School attendance	206	225	184	189	25	36	--	--	107	121	99	104
Ill health, disability	179	231	35	57	104	132	41	41	101	90	78	141
Home responsibilities ¹	284	314	99	115	180	198	5	--	--	--	284	314
Think cannot get job	306	233	152	127	132	88	22	16	113	96	193	137
Other reasons	188	226	83	106	89	109	19	11	77	72	111	154

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

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

(In thousands)

3rd Quarter 1979

Detailed reason for not seeking work	Total	Age in years				Race	
		16-19	20-24	25-59	60 and over	White	Black and other
TOTAL							
Personal factors:							
Employers think too young or old	113	24	--	29	62	100	13
Lacks education or training	90	29	8	49	6	69	21
Other personal handicap	33	4	10	19	--	28	5
Job-market factors:							
Could not find job	336	124	47	129	37	193	143
Thinks no job available	208	22	45	102	40	158	50
Males							
Personal factors:							
Employers think too young or old	45	15	--	--	31	40	5
Lacks education or training	34	16	8	7	4	23	11
Other personal handicap	11	2	--	9	--	11	--
Job-market factors:							
Could not find job	153	72	24	35	21	83	70
Thinks no job available	69	6	12	28	23	59	10
Females							
Personal factors:							
Employers think too young or old	68	9	--	29	31	60	8
Lacks education or training	56	14	--	40	2	46	10
Other personal handicap	22	2	10	10	--	17	5
Job-market factors:							
Could not find job	184	50	23	94	16	110	73
Thinks no job available	139	15	33	75	17	99	40

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

(Numbers in thousands)

Most recent work experience and reason for leaving job	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over					
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
Total, not in labor force	57,394	57,562	9,747	9,869	22,778	22,222	24,868	25,471	50,237	50,175	7,156	7,387
Never worked	8,406	8,415	3,827	3,902	2,032	2,070	2,546	2,441	6,706	6,720	1,700	1,695
Last worked over 5 years ago	28,944	28,985	335	241	11,611	10,970	17,000	17,775	25,960	25,939	2,983	3,047
Last worked 1 to 5 years ago	10,743	10,574	1,568	1,576	5,272	5,155	3,902	3,843	9,484	9,210	1,258	1,364
Left job during previous 12 months	9,301	9,588	4,015	4,150	3,862	4,026	1,422	1,412	8,087	8,306	1,214	1,282
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	43.1	42.3	59.5	59.0	39.5	37.8	6.8	5.6	43.9	42.8	37.6	38.4
Ill health, disability	8.1	9.5	2.6	3.0	10.7	13.9	16.7	16.2	7.7	8.9	11.3	13.3
Retirement, old age	8.2	8.3	--	--	2.7	2.2	46.5	50.5	9.0	9.1	3.3	3.2
Economic reasons	21.1	20.8	18.3	18.9	24.6	23.8	19.1	17.8	20.7	20.1	23.7	25.2
End of seasonal job	9.2	8.9	9.2	8.1	10.3	10.2	6.5	7.2	8.9	8.8	11.9	9.5
Slack work	5.0	5.6	3.5	4.6	6.8	6.9	4.4	5.1	4.6	5.4	7.8	7.3
End of temporary job	6.8	6.3	5.6	6.1	7.6	6.7	8.2	5.5	7.2	6.0	4.0	8.3
All other reasons	19.4	19.1	19.5	19.1	22.5	22.3	10.9	10.0	18.7	19.0	24.1	20.0
Males, not in labor force	15,749	15,987	3,472	3,520	3,123	3,064	9,155	9,403	13,422	13,640	2,327	2,347
Never worked	1,705	1,837	1,453	1,548	215	237	36	53	1,204	1,283	501	554
Last worked over 5 years ago	7,332	7,479	61	25	1,205	1,102	6,066	6,353	6,436	6,574	895	906
Last worked 1 to 5 years ago	3,638	3,494	349	304	1,056	1,008	2,233	2,183	3,170	3,047	468	448
Left job during previous 12 months	3,074	3,176	1,608	1,647	648	718	818	813	2,612	2,736	462	440
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	34.3	34.6	56.1	57.2	19.3	19.1	3.2	2.5	34.6	35.1	32.6	31.6
Ill health, disability	11.6	13.5	3.5	3.5	26.3	29.9	16.3	19.0	11.3	13.1	13.4	15.9
Retirement, old age	17.5	15.9	--	--	9.7	6.4	57.9	56.5	19.6	17.2	5.2	7.5
Economic reasons	18.7	18.0	19.2	20.9	21.5	15.9	15.4	14.2	17.1	16.4	27.9	27.7
End of seasonal job	8.3	8.2	10.1	10.0	7.1	6.8	5.5	6.0	7.4	7.2	13.4	15.0
Slack work	4.8	5.2	3.5	5.7	9.3	5.2	4.0	4.2	3.9	5.2	9.9	5.7
End of temporary job	5.6	4.5	5.6	5.2	5.1	3.9	5.9	3.9	5.8	4.1	4.5	7.0
All other reasons	17.9	18.0	21.2	18.3	23.2	28.7	7.2	7.9	17.3	18.1	21.0	17.3
Females, not in labor force	41,644	41,575	6,275	6,347	19,655	19,158	15,714	16,069	36,815	36,535	4,829	5,040
Never worked	6,701	6,578	2,374	2,355	1,817	1,835	2,508	2,388	5,502	5,437	1,199	1,141
Last worked over 5 years ago	21,612	21,505	274	215	10,405	9,868	10,933	11,422	19,524	19,365	2,088	2,141
Last worked 1 to 5 years ago	7,105	7,079	1,220	1,272	4,215	4,146	1,668	1,660	6,314	6,163	790	916
Left job during previous 12 months	6,27	6,412	2,407	2,504	3,216	3,309	604	599	5,475	5,570	752	842
Percent distribution by reason	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
School, home responsibilities	47.5	46.0	61.8	60.2	43.5	41.9	11.6	9.8	48.4	46.7	40.7	41.9
Ill health, disability	6.4	7.5	2.1	2.6	7.6	10.4	17.4	12.4	5.9	6.8	10.0	11.9
Retirement, old age	3.7	4.6	--	--	1.3	1.2	31.0	42.4	3.9	5.2	2.1	1.0
Economic reasons	22.2	22.2	17.8	17.6	25.2	25.5	24.0	22.7	22.4	21.9	21.2	23.9
End of seasonal job	9.7	9.2	8.6	6.9	10.9	10.9	8.0	8.8	9.6	9.5	10.9	6.7
Slack work	5.1	5.8	3.6	3.9	6.3	7.2	5.0	6.2	4.9	5.5	6.5	8.2
End of temporary job	7.4	7.2	5.6	6.8	8.1	7.4	11.1	7.7	7.9	6.9	3.7	9.0
All other reasons	20.2	19.7	18.4	19.7	22.4	21.0	15.9	12.7	19.4	19.4	26.0	21.4

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

(In thousands)

Work-seeking intentions and work history	Total		Age in years						White		Black and other	
			16-24		25-59		60 and over					
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
Total	49,183	49,054	5,770	5,753	19,106	18,435	24,307	24,867	43,535	43,435	5,648	5,619
Do not intend to seek work	8,209	8,507	3,977	4,116	3,671	3,786	561	605	6,701	6,739	1,508	1,768
Intend to seek work in the next 12 months	1,250	1,236	1,078	1,075	155	136	18	23	898	833	352	403
Never worked	1,185	1,204	36	17	1,012	1,017	137	170	1,020	961	165	243
Last worked over 5 years ago	1,734	1,826	507	589	1,038	1,039	190	203	1,374	1,405	360	421
Last worked 1 to 5 years ago	4,041	4,240	2,358	2,438	1,468	1,593	216	208	3,409	3,540	631	699
Worked during previous 12 months	Males											
Do not intend to seek work	13,217	13,314	1,809	1,815	2,493	2,379	8,914	9,120	11,441	11,541	1,776	1,772
Intend to seek work in the next 12 months	2,532	2,673	1,662	1,705	629	684	241	282	1,981	2,098	551	575
Never worked	469	503	435	478	34	24	--	1	333	325	135	178
Last worked over 5 years ago	143	164	15	2	92	99	36	63	110	118	33	45
Last worked 1 to 5 years ago	468	456	173	142	197	219	97	94	365	364	103	92
Worked during previous 12 months	1,452	1,550	1,039	1,085	307	342	106	124	1,172	1,291	280	259
Females												
Do not intend to seek work	35,966	35,741	3,959	3,939	16,613	16,056	15,394	15,746	32,094	31,894	3,872	3,847
Intend to seek work in the next 12 months	5,677	5,834	2,315	2,408	3,042	3,103	321	322	4,720	4,641	957	1,193
Never worked	782	733	641	598	121	112	18	22	565	508	217	225
Last worked over 5 years ago	1,041	1,041	21	15	919	918	100	108	910	843	132	198
Last worked 1 to 5 years ago	1,266	1,371	334	443	839	820	92	109	1,009	1,041	257	329
Worked during previous 12 months	2,589	2,689	1,317	1,353	1,163	1,252	110	84	2,237	2,249	351	440

**HOUSEHOLD DATA
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A-59. Employment status of the civilian noninstitutional population by sex, age, race, and Hispanic origin

[Numbers in thousands]

Employment status	Total		White		Black ¹		Hispanic origin ²	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
TOTAL								
Civilian noninstitutional population	159,235	161,806	139,822	141,821	16,678	17,060	7,829	8,037
Civilian labor force	101,841	104,244	89,585	91,647	10,431	10,660	4,978	5,135
Percent of population	64.0	64.4	64.1	64.6	62.5	62.5	63.6	63.9
Employment	95,786	98,231	84,997	87,028	9,125	9,366	4,523	4,716
Agriculture	3,801	3,733	3,447	3,394	270	274	255	239
Nonagricultural industries	91,986	94,498	81,550	83,634	8,855	9,092	4,267	4,477
Unemployment	6,055	6,013	4,588	4,615	1,306	1,294	456	419
Unemployment rate	5.9	5.8	5.1	5.0	12.5	12.1	9.2	8.2
Not in labor force	57,394	57,562	50,237	50,175	6,247	6,401	2,851	2,902
Males, 20 years and over								
Civilian noninstitutional population	67,134	68,419	59,621	60,670	6,411	6,579	3,218	3,306
Civilian labor force	53,814	54,972	48,067	48,982	4,851	5,050	2,736	2,815
Percent of population	80.2	80.3	80.6	80.7	75.7	76.8	85.0	85.1
Employment	51,825	52,899	46,528	47,363	4,460	4,631	2,579	2,660
Agriculture	2,545	2,524	2,294	2,279	197	199	187	174
Nonagricultural industries	49,280	50,375	44,234	45,084	4,261	4,432	2,392	2,487
Unemployment	1,989	2,073	1,539	1,619	392	420	157	155
Unemployment rate	3.7	3.8	3.2	3.3	8.1	8.3	5.7	5.5
Not in labor force	13,320	13,448	11,554	11,688	1,561	1,527	482	491
Females, 20 years and over								
Civilian noninstitutional population	75,649	77,009	66,277	67,317	8,049	8,266	3,547	3,653
Civilian labor force	37,292	38,801	32,049	33,400	4,492	4,580	1,650	1,721
Percent of population	49.3	50.4	48.4	49.6	55.8	55.4	46.5	47.1
Employment	34,886	36,479	30,236	31,650	3,962	4,057	1,468	1,576
Agriculture	695	713	643	662	33	39	35	36
Nonagricultural industries	34,191	35,766	29,593	30,988	3,930	4,019	1,433	1,539
Unemployment	2,406	2,323	1,813	1,751	530	522	181	185
Unemployment rate	6.5	6.0	5.7	5.2	11.8	11.4	11.0	8.4
Not in labor force	38,357	38,208	34,228	33,917	3,556	3,687	1,898	1,932
Both sexes, 16-19 years								
Civilian noninstitutional population	16,452	16,377	13,924	13,834	2,218	2,215	1,063	1,078
Civilian labor force	10,735	10,471	9,469	9,264	1,088	1,025	593	599
Percent of population	65.3	63.9	68.0	67.0	49.1	46.5	55.8	55.6
Employment	9,075	8,854	8,233	8,015	703	678	476	480
Agriculture	560	496	510	453	40	36	34	29
Nonagricultural industries	8,515	8,358	7,723	7,563	664	641	442	451
Unemployment	1,660	1,617	1,236	1,249	384	352	117	119
Unemployment rate	15.5	15.4	13.1	13.5	35.3	34.2	19.8	19.9
Not in labor force	5,717	5,907	4,456	4,570	1,131	1,186	471	479

¹ Data relate to black workers only. According to the 1970 Census, they comprised about 89 percent of the "black and other" population group.

² Data on persons of Hispanic origin are tabulated separately, without regard to race, which means that they are also included in the data for white and black workers. At the time of the Census, approximately 96 percent of their population was white.

HOUSEHOLD DATA QUARTERLY AVERAGES

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

(Numbers in thousands)

Employment status	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
TOTAL								
Civilian noninstitutional population	7,829	8,037	4,602	4,801	1,090	1,093	618	600
Civilian labor force	4,978	5,135	3,022	3,179	575	588	424	387
Percent of population	63.6	63.9	65.7	66.2	52.8	53.8	68.6	64.5
Employment	4,523	4,716	2,755	2,928	489	520	397	357
Agriculture	255	239	227	218	13	3	5	2
Nonagricultural industries	4,267	4,477	2,528	2,711	476	517	392	355
Unemployment	456	419	267	250	86	68	27	29
Unemployment rate	9.2	8.2	8.8	7.9	15.0	11.5	6.4	7.6
Not in labor force	2,851	2,902	1,579	1,622	515	505	194	214
Males, 20 years and over								
Civilian noninstitutional population	3,218	3,306	1,979	2,041	404	401	245	243
Civilian labor force	2,736	2,815	1,716	1,797	332	324	207	195
Percent of population	85.0	85.1	86.7	88.0	82.2	80.8	84.5	80.2
Employment	2,579	2,660	1,629	1,700	295	294	199	190
Agriculture	187	174	164	159	11	1	5	2
Nonagricultural industries	2,392	2,487	1,466	1,541	284	292	193	187
Unemployment	157	155	87	97	37	30	8	5
Unemployment rate	5.7	5.5	5.0	5.4	11.1	9.3	3.9	2.7
Not in labor force	482	491	263	244	72	77	39	48
Females, 20 years and over								
Civilian noninstitutional population	3,547	3,653	1,974	2,066	514	533	315	294
Civilian labor force	1,650	1,721	924	974	170	194	186	165
Percent of population	46.5	47.1	46.8	47.1	33.1	36.4	59.0	56.1
Employment	1,468	1,576	814	885	140	177	176	152
Agriculture	35	36	33	34	—	1	—	—
Nonagricultural industries	1,433	1,539	780	852	140	176	176	152
Unemployment	181	145	111	89	30	17	9	13
Unemployment rate	11.0	8.4	12.0	9.1	17.5	8.8	4.9	7.6
Not in labor force	1,898	1,932	1,050	1,092	345	339	130	129
Both sexes, 16-19 years								
Civilian noninstitutional population	1,063	1,078	648	694	172	159	58	64
Civilian labor force	593	599	382	408	73	70	32	27
Percent of population	55.8	55.6	59.0	58.8	42.4	44.0	55.2	42.2
Employment	476	480	312	343	54	50	22	15
Agriculture	34	29	30	25	2	1	—	—
Nonagricultural industries	442	451	282	318	52	49	22	15
Unemployment	117	119	70	65	20	21	10	11
Unemployment rate	19.8	19.9	18.3	16.0	27.0	29.3	(2)	(2)
Not in labor force	471	479	266	286	99	89	26	37

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

NOTE: See note, table A-59.

² Percent not shown where base is less than 60,000.

HOUSEHOLD DATA QUARTERLY AVERAGES

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

(In thousands)

Selected categories	Total		White		Black and other		Hispanic origin ¹	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
CHARACTERISTICS								
Total, 18 years and over	95,786	98,231	84,997	87,028	10,789	11,203	4,523	4,716
Males	56,768	57,707	51,011	51,702	5,757	6,005	2,851	2,935
Females	39,018	40,524	33,986	35,326	5,032	5,198	1,672	1,782
OCCUPATION								
White-collar workers	47,013	49,268	43,140	45,018	3,873	4,250	1,439	1,488
Professional and technical	13,891	14,691	12,666	13,332	1,225	1,359	326	359
Managers and administrators, except farm	10,232	10,778	9,707	10,194	525	583	274	286
Sales workers	5,952	6,145	5,619	5,846	333	299	169	169
Clerical workers	16,937	17,655	15,148	15,646	1,789	2,009	670	674
Blue-collar workers	32,605	33,047	28,578	28,893	4,027	4,154	2,129	2,268
Craft and kindred workers	12,819	13,244	11,871	12,186	948	1,058	625	668
Operatives, except transport	11,033	11,074	9,381	9,386	1,652	1,688	914	1,033
Transport equipment operatives	3,510	3,616	2,976	3,076	534	540	199	205
Nonfarm laborers	5,242	5,113	4,350	4,245	893	868	391	362
Service workers	12,986	12,870	10,389	10,359	2,596	2,510	738	764
Farm workers	3,183	3,046	2,890	2,758	293	289	216	197
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	1,671	1,636	1,404	1,359	267	277	234	213
Self-employed workers	1,725	1,711	1,651	1,658	74	53	18	18
Unpaid family workers	404	385	391	377	13	9	4	8
Nonagricultural industries:								
Wage and salary workers	85,233	87,260	75,234	76,836	10,000	10,424	4,046	4,246
Government	14,889	14,981	12,439	12,521	2,450	2,461	611	604
Private industries	70,345	72,279	62,794	64,315	7,550	7,964	3,436c	3,641
Private households	1,407	1,287	961	888	445	399	79	95
Other industries	68,938	70,992	61,833	63,427	7,105	7,565	3,357c	3,546
Self-employed workers	6,286	6,764	5,877	6,350	409	414	202	218
Unpaid family workers	467	474	439	449	27	26	18	14
FULL- AND PART-TIME STATUS²								
Full-time schedules	80,014	81,967	71,116	72,633	8,899	9,334	3,860	4,080
Part time for economic reasons	3,810	3,768	3,090	3,079	720	688	260	242
Part time for noneconomic reasons	11,962	12,497	10,791	11,315	1,171	1,181	402	394

¹ See footnote 2, table A-59.

² Employed persons "with a job but not at work" during the survey period are distributed

proportionately among the full- and part-time employed categories.

c=corrected.

HOUSEHOLD DATA QUARTERLY AVERAGES

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

[In thousands]

Selected categories	Total Hispanic origin ¹		Mexican origin		Puerto Rican origin		Cuban origin	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
CHARACTERISTICS								
Total, 16 years and over	4,523	4,716	2,755	2,928	489	520	397	357
Males	2,851	2,935	1,808	1,890	318	326	211	201
Females	1,672	1,782	947	1,038	170	194	186	156
OCCUPATION								
White-collar workers	1,439	1,488	739	797	165	182	169	156
Professional and technical	326	359	161	170	42	58	33	41
Managers and administrators, except farm	274	286	149	149	27	26	34	31
Sales workers	169	169	71	83	20	17	27	21
Clerical workers	670	674	358	395	76	81	75	63
Blue-collar workers	2,129	2,268	1,382	1,497	219	230	175	159
Craft and kindred workers	625	668	417	452	44	50	61	45
Operatives, except transport	914	1,033	539	638	126	127	92	86
Transport equipment operatives	199	205	135	135	22	25	8	16
Nonfarm laborers	391	362	291	272	27	28	14	12
Service workers	738	764	439	458	93	106	48	40
Farm workers	216	197	193	179	11	2	5	2
MAJOR INDUSTRY AND CLASS OF WORKER								
Agriculture:								
Wage and salary workers	234	213	209	196	13	3	4	2
Self-employed workers	18	18	15	14	1	—	1	1
Unpaid family workers	4	8	3	7	—	—	—	—
Nonagricultural industries:								
Wage and salary workers	4,046	4,246	2,398	2,584	468	503	364	325
Government	611	604	379	352	77	98	34	44
Private industries	3,436	3,641	2,018	2,231	390	405	330	281
Private households	79	95	47	54	2	5	1	4
Other industries	3,357	3,546	1,971	2,177	388	400	329	277
Self-employed workers	202	218	119	116	7	14	28	30
Unpaid family workers	18	14	11	12	—	—	—	—
FULL- AND PART-TIME STATUS²								
Full-time schedules	3,860	4,080	2,334	2,507	428	465	339	309
Part time for economic reasons	260	242	180	178	26	16	14	11
Part time for noneconomic reasons	402	394	240	243	35	40	44	37

¹ See footnote 1, table A-60.

² See footnote 2, table A-61.

HOUSEHOLD DATA QUARTERLY AVERAGES

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

(In thousands)

Sex and age	Total		White		Black ¹		Hispanic origin ²	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
Total, 16 years and over	95,786	98,231	84,997	87,028	9,125	9,366	4,523	4,716
16 to 19 years	9,075	8,854	8,233	8,015	703	678	476	480
16 to 17 years	3,876	3,758	3,542	3,420	270	273	196	170
18 to 19 years	5,199	5,096	4,691	4,595	434	405	280	310
20 to 24 years	14,012	14,339	12,469	12,675	1,320	1,400	778	842
25 years and over	72,699	75,038	64,295	66,337	7,102	7,288	3,269	3,394
25 to 54 years	58,615	60,767	51,601	53,442	5,880	6,091	2,897	3,029
55 years and over	14,084	14,272	12,694	12,895	1,223	1,197	372	366
Males, 16 years and over	56,768	57,707	51,011	51,702	4,843	5,013	2,851	2,935
16 to 19 years	4,942	4,808	4,483	4,339	384	382	272	274
16 to 17 years	2,132	2,081	1,941	1,886	154	156	112	96
18 to 19 years	2,811	2,727	2,542	2,453	230	226	160	178
20 to 24 years	7,685	7,860	6,888	6,989	683	731	502	503
25 years and over	44,140	45,039	39,640	40,373	3,776	3,900	2,077	2,157
25 to 54 years	35,364	36,178	31,672	32,309	3,079	3,220	1,819	1,908
55 years and over	8,777	8,862	7,968	8,065	697	681	258	249
Females, 16 years and over	39,018	40,524	33,986	35,326	4,281	4,353	1,672	1,782
16 to 19 years	4,132	4,046	3,750	3,677	319	295	204	206
16 to 17 years	1,744	1,677	1,601	1,554	115	117	84	74
18 to 19 years	2,388	2,369	2,149	2,143	204	178	120	131
20 to 24 years	6,327	6,479	5,581	5,686	636	669	276	339
25 years and over	28,559	30,000	24,656	25,964	3,326	3,388	1,192	1,237
25 to 54 years	23,251	24,590	19,929	21,133	2,801	2,871	1,078	1,121
55 years and over	5,308	5,410	4,727	4,831	525	517	115	116

¹ See footnote 1, table A-59.

² See footnote 2, table A-59.

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

Sex and age	Total		White		Black ¹		Hispanic origin ²	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
Total, 16 years and over	5.9	5.8	5.1	5.0	12.5	12.1	9.2	8.2
16 to 19 years	15.5	15.4	13.1	13.5	35.3	34.2	19.8	19.9
16 to 17 years	18.2	16.4	15.6	14.6	40.6	34.9	24.9	26.5
18 to 19 years	13.3	14.7	11.0	12.6	31.6	33.6	15.7	15.7
20 to 24 years	9.1	9.0	7.4	7.5	22.1	20.6	11.7	9.1
25 years and over	3.9	3.8	3.5	3.4	7.2	7.4	6.7	6.0
25 to 54 years	4.2	4.1	3.7	3.6	7.7	7.9	6.9	6.0
55 years and over	2.9	2.8	2.7	2.7	4.5	4.5	5.6	5.4
Males, 16 years and over	4.7	4.8	4.0	4.2	10.6	10.5	7.1	6.9
16 to 19 years	14.0	14.5	11.9	12.8	32.2	30.3	18.1	18.3
16 to 17 years	17.0	15.2	14.8	13.6	36.3	31.8	25.4	24.9
18 to 19 years	11.6	14.0	9.5	12.2	29.1	29.3	12.2	14.3
20 to 24 years	7.9	8.0	6.6	6.9	18.8	17.5	9.4	7.5
25 years and over	2.9	3.0	2.6	2.7	5.8	6.3	4.8	5.0
25 to 54 years	3.0	3.1	2.6	2.7	6.3	6.8	4.9	5.1
55 years and over	2.6	2.7	2.5	2.6	3.9	4.2	4.8	4.6
Females, 16 years and over	7.7	7.2	6.7	6.3	14.6	14.0	12.5	10.2
16 to 19 years	17.1	16.6	14.4	14.2	38.8	38.6	21.8	21.8
16 to 17 years	19.5	17.8	16.6	15.7	45.6	38.7	24.3	28.5
18 to 19 years	15.3	15.6	12.7	13.2	34.1	38.5	20.0	17.5
20 to 24 years	10.6	10.1	8.4	8.1	25.5	23.7	15.7	11.3
25 years and over	5.5	5.1	5.0	4.6	8.6	8.5	9.8	7.6
25 to 54 years	6.0	5.5	5.5	5.0	9.2	9.1	10.1	7.7
55 years and over	3.3	3.0	3.1	2.8	5.4	4.8	7.4	7.2

¹ See footnote 1, table A-59.

² See footnote 2, table A-59.

HOUSEHOLD DATA QUARTERLY AVERAGES

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

[In thousands]

Weeks of unemployment	Total		White		Black and other		Hispanic origin ¹	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
Duration								
Total, 16 years and over	6,055	6,013	4,588	4,619	1,467	1,394	456	419
Less than 5 weeks	2,994	3,051	2,363	2,411	631	640	258	227
5 to 14 weeks	1,935	1,967	1,411	1,470	524	497	128	127
15 weeks and over	1,127	995	815	738	312	257	70	65
15 to 26 weeks	519	511	391	396	129	115	31	40
27 weeks and over	608	484	424	342	184	142	39	25
Average (mean) duration, in weeks	11.1	9.9	10.5	9.4	13.0	11.5	9.7	9.2
Median duration, in weeks	5.1	4.9	4.9	4.8	6.3	5.7	4.4	4.6
Percent distribution								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than 5 weeks	49.4	50.7	51.5	52.2	43.0	45.9	56.6	54.2
5 to 14 weeks	32.0	32.7	30.7	31.8	35.7	35.7	28.1	30.3
15 weeks and over	18.6	16.5	17.8	16.0	21.3	18.4	15.4	15.5
15 to 26 weeks	8.6	8.5	8.5	8.6	8.8	8.2	6.8	9.5
27 weeks and over	10.0	8.0	9.2	7.4	12.5	10.2	8.6	6.0

¹ See footnote 2, table A-59.

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

[Numbers in thousands]

Reason for unemployment	Total		White		Black and other		Hispanic origin ¹	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978c	III 1979
NUMBER OF UNEMPLOYED								
Total, 16 years and over	6,055	6,013	4,588	4,619	1,467	1,394	456	419
Job losers	2,225	2,374	1,734	1,871	492	503	197	198
On layoff	595	742	473	610	122	132	44	53
Other job losers	1,630	1,632	1,261	1,261	369	371	152	145
Job leavers	940	943	772	791	169	151	60	52
Reentrants	1,896	1,817	1,413	1,349	483	469	117	98
New entrants	993	879	670	608	324	271	82	72
PERCENT DISTRIBUTION								
Total unemployed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Job losers	36.7	39.5	37.8	40.5	33.5	36.1	43.1	47.3
On layoff	9.8	12.3	10.3	13.2	8.3	9.5	9.6	12.6
Other job losers	26.9	27.1	27.5	27.3	25.2	26.6	33.3	34.6
Job leavers	15.5	15.7	16.8	17.1	11.5	10.8	13.2	12.4
Reentrants	31.3	30.2	30.8	29.2	32.9	33.6	25.7	23.4
New entrants	16.4	14.6	14.6	13.2	22.1	19.4	18.0	17.2
UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE								
Job losers	2.2	2.3	1.9	2.0	4.0	4.0	4.0	3.9
Job leavers .....	.9	.9	.9	.9	1.4	1.2	1.2	1.0
Reentrants	1.9	1.7	1.6	1.5	3.9	3.7	2.4	1.9
New entrants	1.0	.8	.7	.7	2.6	2.2	1.6	1.4

¹ See footnote 2, table A-59.

c=corrected.

HOUSEHOLD DATA QUARTERLY AVERAGES

Corrected data for 2nd quarter 1978

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

(Numbers in thousands)

Veteran status and age	Not seasonally adjusted									
	Civilian noninsti- tutional population		Civilian labor force							
			Total		Employed		Unemployed			
	Number						Percent of labor force			
II 1978 ^a	II 1979	II 1978 ^c	II 1979	II 1978 ^c	II 1979	II 1978 ^c	II 1979	II 1978 ^c	II 1979	
VETERANS¹										
Total, 20 years and over	8,306	8,512	7,835	8,097	7,519	7,772	316	325	4.0	4.0
20 to 24 years	784	579	697	533	638	483	60	50	8.6	9.3
25 to 39 years	6,819	7,106	6,542	6,865	6,304	6,613	238	252	3.6	3.7
25 to 29 years	2,417	2,003	2,290	1,906	2,172	1,801	117	105	5.1	5.5
30 to 34 years	3,327	3,591	3,211	3,485	3,124	3,371	88	114	2.7	3.3
35 to 39 years	1,075	1,512	1,041	1,473	1,008	1,441	33	32	3.1	2.2
40 years and over	703	827	596	699	577	676	19	24	3.2	3.4
NONVETERANS²										
Total, 25 to 39 years	13,583	14,464	12,936	13,722	12,447	13,263	489	459	3.8	3.3
25 to 29 years	6,015	6,598	5,679	6,244	5,422	5,997	257	247	4.5	4.0
30 to 34 years	3,991	4,148	3,826	3,947	3,697	3,831	129	116	3.4	2.9
35 to 39 years	3,577	3,719	3,431	3,532	3,328	3,436	103	96	3.0	2.7

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

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

NOTE: Seasonally-adjusted data are no longer being provided because the changing age composition of the Vietnam-era veterans' population distorts the ability to identify seasonality in the series.
c=corrected.

HOUSEHOLD DATA QUARTERLY AVERAGES

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

[Numbers in thousands]

Veteran status and age	Not seasonally adjusted										
	Civilian noninstitutional population		Civilian labor force								
			Total		Employed		Unemployed		Percent of labor force		
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	
VETERANS¹											
Total, 20 years and over	8,352	8,550	7,891	8,156	7,548	7,852	343	304	4.3	3.7	
20 to 24 years	736	530	668	483	598	439	70	44	10.5	9.2	
25 to 39 years	6,892	7,157	6,615	6,927	6,362	6,691	253	236	3.8	3.4	
25 to 29 years	2,297	1,916	2,169	1,835	2,034	1,749	136	86	6.3	4.7	
30 to 34 years	3,428	3,624	3,323	3,517	3,238	3,407	85	110	2.6	3.1	
35 to 39 years	1,167	1,617	1,123	1,575	1,090	1,535	33	40	2.9	2.5	
40 years and over	724	864	608	746	589	722	19	23	3.1	3.1	
NONVETERANS²											
Total, 25 to 39 years	13,801	14,684	13,185	13,993	12,749	13,479	436	514	3.3	3.7	
25 to 29 years	6,172	6,730	5,891	6,405	5,654	6,141	237	264	4.0	4.1	
30 to 34 years	3,995	4,208	3,812	4,005	3,700	3,867	112	138	2.9	3.4	
35 to 39 years	3,634	3,746	3,482	3,583	3,395	3,472	87	112	2.5	3.1	

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

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

NOTE: Seasonally-adjusted data are no longer being provided because the changing age composition of the Vietnam-era veterans' population distorts the ability to identify seasonality in the series.

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

[Numbers in thousands]

Employment status	Veterans ¹						Nonveterans					
	White		Black and other		Hispanic origin ²		White		Black and other		Hispanic origin ²	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
Total, 25 to 39 years:												
Civilian noninstitutional population	6,226	6,435	666	722	259	251	11,964	12,755	1,837	1,909	962	1,061
Civilian labor force	5,997	6,244	618	683	244	237	11,517	12,265	1,668	1,727	909	994
Employed	5,793	6,051	568	640	230	225	11,187	11,881	1,562	1,598	863	940
Unemployed	204	193	50	43	14	12	330	384	106	129	46	54
Unemployment rate	3.4	3.1	8.1	6.3	5.7	5.1	2.9	3.1	6.4	7.5	5.1	5.4
25 to 29 years												
Civilian noninstitutional population	2,053	1,674	244	242	110	87	5,396	5,916	776	814	394	445
Civilian labor force	1,945	1,604	224	231	102	81	5,189	5,669	702	736	375	415
Employed	1,841	1,534	192	215	91	74	5,013	5,459	641	682	359	389
Unemployed	104	70	32	16	11	7	176	210	61	54	16	26
Unemployment rate	5.3	4.4	14.3	6.9	10.8	8.6	3.4	3.7	8.7	7.3	4.3	6.3
30 to 34 years												
Civilian noninstitutional population	3,120	3,291	308	333	107	118	3,449	3,626	546	582	279	320
Civilian labor force	3,032	3,205	291	312	101	112	3,318	3,484	494	520	258	302
Employed	2,961	3,116	277	291	99	108	3,234	3,391	466	475	241	288
Unemployed	71	89	14	21	2	4	84	93	28	45	17	14
Unemployment rate	2.3	2.8	14.8	6.7	2.0	3.6	2.5	2.7	5.7	8.7	6.6	4.6
35 to 39 years												
Civilian noninstitutional population	1,053	1,470	114	147	42	46	3,119	3,233	515	513	289	296
Civilian labor force	1,020	1,435	103	140	41	44	3,010	3,112	472	471	276	277
Employed	991	1,401	99	134	40	43	2,940	3,031	455	441	263	263
Unemployed	29	34	4	6	1	1	70	81	17	30	13	14
Unemployment rate	2.8	2.4	3.9	4.3	(3)	(3)	2.3	2.6	3.6	6.4	4.7	5.1

¹ See footnote 1, table A-67.

² See footnote 2, table A-59.

³ Percent not shown where base is less than 80,000.

HOUSEHOLD DATA QUARTERLY AVERAGES

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

(Numbers in thousands)

Employment status	Metropolitan areas						Nonmetropolitan areas					
	Total		Central cities		Suburbs		Total		Farm		Nonfarm	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
Total												
Civilian noninstitutional population	107,629	110,258	45,425	46,047	62,204	64,211	51,606	51,548	4,867	4,673	46,739	46,875
Civilian labor force	69,520	72,042	28,373	29,138	41,147	42,904	32,322	32,202	3,187	3,106	29,135	29,096
Percent of population	64.6	65.3	62.5	63.3	66.1	66.8	62.6	62.5	65.5	66.5	62.3	62.1
Employed	65,236	67,764	26,266	27,021	38,970	40,743	30,550	30,467	3,109	3,035	27,441	27,432
Unemployed	4,283	4,278	2,107	2,117	2,176	2,161	1,772	1,735	77	72	1,695	1,663
Unemployment rate	6.2	5.9	7.4	7.3	5.3	5.0	5.5	5.4	2.4	2.3	5.8	5.7
Not in labor force	38,110	38,216	17,052	16,909	21,058	21,307	19,284	19,346	1,681	1,567	17,603	17,779
Males, 20 years and over												
Civilian noninstitutional population	45,284	46,392	18,674	18,953	26,610	27,439	21,850	22,028	2,199	2,142	19,651	19,886
Civilian labor force	36,667	37,711	14,514	14,893	22,153	22,818	17,148	17,260	1,849	1,803	15,299	15,457
Percent of population	81.0	81.3	77.7	78.6	83.3	83.2	78.5	78.4	84.1	84.2	77.9	77.7
Employed	35,222	36,195	13,746	14,081	21,476	22,114	16,603	16,704	1,829	1,778	14,774	14,926
Unemployed	1,444	1,517	767	812	677	705	545	556	20	24	525	532
Unemployment rate	3.9	4.0	5.3	5.5	3.1	3.1	3.2	3.2	1.1	1.4	3.4	3.4
Not in labor force	8,617	8,680	4,160	4,061	4,457	4,619	4,702	4,767	349	339	4,353	4,428
Females, 20 years and over												
Civilian noninstitutional population	51,332	52,703	22,366	22,626	28,966	30,077	24,317	24,306	2,086	1,979	22,231	22,327
Civilian labor force	25,744	27,269	11,234	11,630	14,510	15,639	11,548	11,532	922	914	10,626	10,618
Percent of population	50.2	51.7	50.2	51.4	50.1	52.0	47.5	47.4	44.2	46.2	47.8	47.6
Employed	24,090	25,626	10,437	10,839	13,653	14,787	10,796	10,853	884	889	9,912	9,964
Unemployed	1,654	1,643	797	792	857	851	752	679	38	25	714	654
Unemployment rate	6.4	6.0	7.1	6.8	5.9	5.4	6.5	5.9	4.1	2.7	6.7	6.2
Not in labor force	25,588	25,434	11,132	10,995	14,456	14,439	12,768	12,774	1,164	1,065	11,604	11,709
Both sexes, 16-19 years												
Civilian noninstitutional population	11,013	11,163	4,385	4,468	6,628	6,695	5,439	5,215	583	553	4,856	4,662
Civilian labor force	7,109	7,061	2,625	2,615	4,484	4,446	3,626	3,409	415	390	3,211	3,019
Percent of population	64.6	63.3	59.9	58.5	67.7	66.4	66.7	65.4	71.2	70.5	66.1	64.8
Employed	5,924	5,943	2,083	2,101	3,841	3,842	3,151	2,910	396	367	2,755	2,543
Unemployed	1,186	1,118	543	514	643	604	475	499	19	23	456	476
Unemployment rate	16.7	15.8	20.7	19.7	14.3	13.6	13.1	14.6	4.7	5.8	14.2	15.8
Not in labor force	3,904	4,102	1,760	1,853	2,144	2,249	1,813	1,805	168	163	1,645	1,642
White												
Civilian noninstitutional population	93,003	94,865	34,924	35,275	58,079	59,590	46,820	46,956	4,538	4,416	42,282	42,540
Civilian labor force	60,186	62,126	21,874	22,441	38,312	39,685	29,399	29,520	3,004	2,960	26,395	26,560
Percent of population	64.7	65.5	62.6	63.6	66.0	66.6	62.8	62.9	66.2	67.0	62.4	62.4
Employed	57,036	58,959	20,610	21,145	36,426	37,814	27,961	28,069	2,940	2,903	25,021	25,166
Unemployed	3,150	3,167	1,265	1,296	1,885	1,871	1,438	1,451	64	57	1,374	1,394
Unemployment rate	5.2	5.1	5.8	5.8	4.9	4.7	4.9	4.9	2.1	1.9	5.2	5.2
Not in labor force	32,817	32,738	13,051	12,834	19,766	19,904	17,420	17,436	1,534	1,456	15,886	15,980
Black and other												
Civilian noninstitutional population	14,627	15,393	10,500	10,772	4,127	4,621	4,786	4,592	329	256	4,457	4,336
Civilian labor force	9,334	9,915	6,498	6,697	2,836	3,218	2,923	2,682	183	146	2,740	2,536
Percent of population	63.8	64.4	61.2	62.2	68.7	69.6	61.1	58.4	55.5	57.0	61.5	58.5
Employed	8,201	8,804	5,656	5,876	2,545	2,928	2,589	2,399	169	131	2,420	2,268
Unemployed	1,133	1,111	843	821	290	290	334	283	14	15	320	268
Unemployment rate	12.1	11.2	13.0	12.3	10.2	9.0	11.4	10.6	7.4	10.4	11.7	10.6
Not in labor force	5,293	5,477	4,002	4,075	1,291	1,402	1,863	1,910	146	110	1,717	1,800

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

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

(Number in thousands)

Employment status	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
Total												
Civilian noninstitutional population	29,009	28,594	130,226	133,212	11,213	10,931	96,417	99,277	17,796	17,613	33,810	33,935
Civilian labor force	16,558	16,394	85,283	87,850	6,154	6,108	63,366	65,934	10,405	10,286	21,917	21,916
Percent of population	57.1	57.3	65.5	65.9	54.9	55.6	65.7	66.4	58.5	58.4	64.8	64.6
Employed	15,145	15,057	80,641	83,174	5,401	5,408	59,835	62,355	9,744	9,649	20,806	20,819
Unemployed	1,413	1,337	4,642	4,676	752	699	3,531	3,579	660	638	1,111	1,097
Unemployment rate	8.5	8.2	5.4	5.3	12.2	11.4	5.6	5.4	6.3	6.2	5.1	5.0
Not in labor force	12,451	12,200	44,943	45,362	5,059	4,873	33,050	33,343	7,391	7,327	11,892	12,019
White												
Civilian noninstitutional population	20,413	20,148	119,409	121,673	5,753	5,537	87,250	89,328	14,660	14,611	32,160	32,345
Civilian labor force	11,816	11,777	77,769	79,870	3,214	3,133	56,972	58,993	8,603	8,644	20,797	20,876
Percent of population	57.9	58.5	65.1	65.6	55.9	56.6	65.3	66.0	58.7	59.2	64.7	64.5
Employed	11,098	11,073	73,899	75,955	2,928	2,873	54,108	56,086	8,170	8,200	19,791	19,868
Unemployed	718	704	3,870	3,915	286	260	2,864	2,907	432	443	1,006	1,008
Unemployment rate	6.1	6.0	5.0	4.9	8.9	8.3	5.0	4.9	5.0	5.1	4.8	4.8
Not in labor force	8,597	8,371	41,641	41,804	2,539	2,404	30,278	30,335	6,057	5,967	11,363	11,469
Black and other												
Civilian noninstitutional population	8,596	8,446	10,817	11,539	5,460	5,444	9,167	9,949	3,136	3,002	1,650	1,590
Civilian labor force	4,742	4,617	7,514	7,980	2,940	2,974	6,394	6,941	1,802	1,643	1,120	1,040
Percent of population	55.2	54.7	69.5	69.2	53.8	54.6	69.8	69.8	57.5	54.7	67.9	65.4
Employed	4,048	3,984	6,742	7,219	2,474	2,535	5,727	6,269	1,574	1,448	1,015	950
Unemployed	694	633	773	761	466	439	667	672	228	194	106	89
Unemployment rate	14.6	13.7	10.3	9.5	15.9	14.8	10.4	9.7	12.7	11.8	9.4	8.6
Not in labor force	3,854	3,829	3,302	3,558	2,520	2,469	2,773	3,008	1,334	1,359	530	550

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

Sex, age, and race	Total United States				Metropolitan areas				Nonmetropolitan areas			
	Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas		Poverty areas		Nonpoverty areas	
	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979	III 1978	III 1979
Total												
Both sexes, 16 years and over	8.5	8.2	5.4	5.3	12.2	11.4	5.6	5.4	6.3	6.2	5.1	5.0
Males, 20 years and over	5.6	5.1	3.3	3.5	9.1	7.6	3.5	3.7	3.6	3.6	3.0	3.0
Females, 20 years and over	9.2	8.9	5.9	5.5	11.2	11.9	5.9	5.5	7.9	6.9	5.9	5.4
Both sexes, 16-19 years	20.2	21.5	14.5	14.3	29.8	27.9	15.3	14.6	14.6	17.6	12.4	13.3
White												
Both sexes, 16 years and over	6.1	6.0	5.0	4.9	8.9	8.3	5.0	4.9	5.0	5.1	4.8	4.8
Males, 20 years and over	4.1	3.9	3.1	3.2	6.8	6.2	3.1	3.3	3.1	3.1	2.8	3.0
Females, 20 years and over	7.0	6.3	5.5	5.1	9.1	8.6	5.3	5.1	6.2	5.5	5.8	5.2
Both sexes, 16-19 years	12.9	16.3	13.1	13.1	19.1	18.6	13.7	13.2	10.8	15.5	11.5	12.7
Black and other												
Both sexes, 16 years and over	14.6	13.7	10.3	9.5	15.9	14.8	10.4	9.7	12.7	11.8	9.4	8.6
Males, 20 years and over	9.8	8.6	6.6	7.0	12.1	9.5	6.7	7.6	6.3	7.0	5.8	2.7
Females, 20 years and over	13.8	14.2	9.9	8.6	13.2	14.7	10.2	8.3	14.8	13.2	7.9	10.2
Both sexes, 16-19 years	36.1	32.9	31.4	28.7	39.6	36.5	32.3	29.5	30.4	26.8	27.7	24.8

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Family relationship	III 1978				III 1979			
	Total	Percent of unemployed:			Total	Percent of unemployed:		
		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time		With no employed person in family	With at least one employed person in family	With at least one person in family employed full time
TOTAL								
Unemployed, total	6,055	36.9	63.1	57.8	6,013	36.8	63.2	57.7
Unemployed, in families ¹	5,207	26.6	73.4	67.3	5,180	26.6	73.4	66.9
Husbands ²	968	50.5	49.5	41.4	1,038	46.3	53.7	43.2
Wives	1,288	10.5	89.5	85.2	1,226	12.2	87.8	83.0
Relatives in husband-wife families	1,728	9.7	90.3	86.1	1,769	9.7	90.3	85.9
Women who head families	436	79.6	20.4	14.4	412	81.3	18.7	14.1
Relatives of female heads	787	31.6	68.4	57.6	735	32.8	67.2	57.7
Unemployed, not in families ³	848	—	—	—	833	—	—	—
White								
Unemployed, total	4,588	35.2	64.8	60.2	4,619	34.5	65.5	60.3
Unemployed, in families ¹	3,860	24.5	75.5	70.2	3,974	23.9	76.1	70.1
Husbands ²	805	50.4	49.6	41.5	864	45.7	54.3	43.4
Wives	1,084	10.0	90.0	85.8	1,046	10.9	89.1	84.7
Relatives in husband-wife families	1,346	8.7	91.3	87.7	1,418	9.1	90.9	86.7
Women who head families	263	77.2	22.8	19.4	241	78.0	22.0	17.8
Relatives of female heads	436	29.6	70.4	61.0	405	30.4	69.6	62.5
Unemployed, not in families ³	654	—	—	—	645	—	—	—
Black⁴								
Unemployed, total	1,306	42.6	57.4	49.7	1,294	44.6	55.4	48.3
Unemployed, in families ¹	1,143	34.4	65.6	56.8	1,123	36.2	63.8	55.7
Husbands ²	139	51.8	48.2	38.8	153	49.7	50.3	41.2
Wives	175	12.6	87.4	82.9	156	20.5	79.5	71.2
Relatives in husband-wife families	325	13.8	86.2	79.4	328	12.2	87.8	82.9
Women who head families	167	82.6	17.4	7.2	165	86.7	13.3	8.5
Relatives of female heads	337	34.4	65.6	53.4	321	35.8	64.2	51.4
Unemployed, not in families ³	163	—	—	—	171	—	—	—

¹ In primary families only.

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

³ Includes unrelated individuals and persons in secondary families.

⁴ According to the 1970 Census, black workers comprised about 89 percent of the "black and other" population group.

**HOUSEHOLD DATA
QUARTERLY AVERAGES**

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

(Numbers in thousands)

Family relationship	III 1978				III 1979			
	Total	Percent of employed:			Total	Percent of employed:		
		With no other employed person in family	With another employed person in family	With another person in family employed full time		With no other employed person in family	With another employed person in family	With another person in family employed full time
TOTAL								
Employed, total	95,786	37.2	62.8	54.9	98,231	37.1	62.9	54.9
Employed, in families ¹	82,536	27.1	72.9	63.7	84,189	26.6	73.4	64.0
Husbands ²	39,549	40.6	59.4	45.4	40,173	39.6	60.4	45.9
Wives	21,167	8.2	91.8	87.8	22,189	8.1	91.9	88.0
Relatives in husband-wife families	13,806	5.7	94.3	91.2	13,574	5.9	94.1	91.0
Women who head families	4,401	64.0	36.0	26.7	4,570	64.2	35.8	26.5
Relatives of female heads	3,613	26.4	73.6	62.8	3,683	25.5	74.5	64.6
Employed, not in families ³	13,250	—	—	—	14,042	—	—	—
White								
Employed, total	84,997	36.7	63.3	55.2	87,028	36.7	63.3	55.1
Employed, in families ¹	73,546	26.9	73.1	63.8	74,848	26.4	73.6	64.1
Husbands ²	36,067	41.1	58.9	44.6	36,567	40.2	59.8	44.9
Wives	18,984	7.9	92.1	88.1	19,862	7.9	92.1	88.4
Relatives in husband-wife families	12,536	5.6	94.4	91.7	12,242	5.8	94.2	91.3
Women who head families	3,237	61.4	38.6	28.9	3,356	61.2	38.8	28.7
Relatives of female heads	2,722	26.7	73.3	63.3	2,821	25.4	74.6	65.4
Employed, not in families ³	11,451	—	—	—	12,180	—	—	—
Black⁴								
Employed, total	9,125	41.7	58.3	50.7	9,366	41.8	58.2	51.4
Employed, in families ¹	7,617	30.2	69.8	60.8	7,794	30.0	70.0	61.8
Husbands ²	2,881	35.3	64.7	53.6	2,964	34.2	65.8	54.9
Wives	1,787	11.5	88.5	83.0	1,870	11.7	88.3	83.8
Relatives in husband-wife families	1,008	7.7	92.3	85.4	1,036	6.9	93.1	87.6
Women who head families	1,104	71.6	28.4	20.6	1,129	73.3	26.7	19.8
Relatives of female heads	837	25.1	74.9	61.6	795	26.2	73.8	61.8
Employed, not in families ³	1,508	—	—	—	1,572	—	—	—

¹ See footnote 1, table A-72.

² See footnote 2, table A-72.

³ See footnote 3, table A-72.

⁴ See footnote 4, table A-72.

ESTABLISHMENT DATA HISTORICAL EMPLOYMENT

B-1. Employees on nonagricultural payrolls by industry division, 1919 to date

Year and month	Total	Goods-producing				Service-producing										
		Total	Mining	Construc- tion	Manufactur- ing	Total	Transportation and public utilities	Wholesale and retail trade			Finance, insurance, and real estate	Services	Government			
								Total	Wholesale trade	Retail trade			Total	Federal	State and local	
1919.....	27,078	12,828	1,133	1,036	10,659	14,250	3,711	4,514	-	-	1,096	2,253	2,676	-	-	
1920.....	27,340	12,760	1,239	863	10,658	14,580	3,998	4,467	-	-	1,160	2,352	2,603	-	-	
1925.....	28,766	12,489	1,089	1,461	9,939	16,277	3,826	5,576	-	-	1,218	2,857	2,800	-	-	
1926.....	29,806	12,911	1,185	1,570	10,156	16,895	3,942	5,784	-	-	1,290	3,033	2,846	-	-	
1927.....	29,962	12,738	1,114	1,623	10,001	17,224	3,895	5,908	-	-	1,352	3,154	2,915	-	-	
1928.....	23,986	12,618	1,050	1,621	9,947	17,368	3,828	5,874	-	-	1,420	3,251	2,995	-	-	
1929.....	11,324	13,301	1,087	1,512	10,702	18,023	3,916	6,123	-	-	1,494	3,425	3,065	533	2,532	
1930.....	29,409	11,958	1,009	1,387	9,562	17,451	3,685	5,797	-	-	1,460	3,361	3,148	526	2,622	
1931.....	26,635	10,272	873	1,229	8,170	16,363	3,254	5,284	-	-	1,392	3,169	3,264	560	2,704	
1932.....	23,615	8,647	731	985	6,931	14,968	2,816	4,683	-	-	1,326	2,918	3,225	559	2,666	
1933.....	23,699	8,965	744	824	7,397	14,734	2,672	4,755	-	-	1,280	2,861	3,166	565	2,601	
1934.....	25,940	10,261	883	877	8,501	15,679	2,750	5,281	-	-	1,304	3,045	3,299	652	2,647	
1935.....	27,039	10,893	897	927	9,069	16,146	2,786	5,431	-	-	1,320	3,128	3,481	753	2,728	
1936.....	29,068	11,933	946	1,160	9,827	17,135	2,973	5,809	-	-	1,373	3,312	3,668	826	2,842	
1937.....	11,011	12,936	1,015	1,127	10,794	18,075	3,134	6,265	-	-	1,417	3,503	3,756	833	2,923	
1938.....	29,194	11,401	891	1,070	9,440	17,793	2,863	6,179	-	-	1,410	3,458	3,883	829	3,054	
1939.....	30,603	12,297	854	1,165	10,278	18,306	2,936	6,426	1,762	4,664	1,447	3,502	3,995	905	3,090	
1940.....	32,361	13,221	925	1,311	10,985	19,140	3,038	6,750	1,835	4,914	1,485	3,665	4,202	996	3,206	
1941.....	36,539	15,963	957	1,814	13,192	20,574	3,274	7,210	1,960	5,251	1,525	3,905	4,660	1,340	3,320	
1942.....	40,106	18,470	992	2,198	15,280	21,636	3,460	7,118	1,906	5,212	1,509	4,066	5,483	2,213	3,270	
1943.....	42,434	20,114	925	1,587	17,602	22,320	3,647	6,982	1,822	5,160	1,481	4,130	6,080	2,905	3,175	
1944.....	41,864	19,328	892	1,108	17,328	22,536	3,229	7,058	1,845	5,214	1,461	4,145	6,043	2,928	3,116	
1945.....	40,374	17,507	836	1,147	15,524	22,867	3,906	7,314	1,949	5,365	1,481	4,222	5,944	2,808	3,137	
1946.....	41,652	17,248	862	1,683	14,703	24,404	4,061	8,376	2,291	6,084	1,675	4,697	5,595	2,254	3,341	
1947.....	43,857	18,509	955	2,009	15,545	25,348	4,166	8,955	2,471	6,485	1,728	5,025	5,474	1,892	3,582	
1948.....	44,866	18,774	994	2,198	15,582	26,092	4,189	9,272	2,605	6,667	1,800	5,181	5,650	1,863	3,787	
1949.....	43,754	17,565	930	2,194	14,441	26,189	4,001	9,264	2,602	6,662	1,828	5,240	5,856	1,908	3,948	
1950.....	45,197	18,506	901	2,364	15,241	26,691	4,034	9,386	2,635	6,751	1,888	5,357	6,026	1,928	4,098	
1951.....	47,819	19,959	929	2,637	16,393	27,860	4,226	9,742	2,727	7,015	1,956	5,547	6,389	2,302	4,087	
1952.....	48,793	20,198	898	2,668	16,632	28,595	4,248	10,004	2,812	7,192	2,035	5,699	6,609	2,420	4,188	
1953.....	50,202	21,074	866	2,659	17,549	29,128	4,290	10,247	2,854	7,393	2,111	5,835	6,645	2,305	4,340	
1954.....	48,990	19,751	791	2,646	16,314	29,239	4,084	10,235	2,867	7,368	2,200	5,969	6,751	2,188	4,563	
1955.....	50,641	20,513	792	2,839	16,882	30,128	4,141	10,535	2,926	7,610	2,298	6,240	6,914	2,187	4,727	
1956.....	52,369	21,104	822	3,039	17,243	31,265	4,244	10,858	3,018	7,840	2,389	6,497	7,278	2,209	5,069	
1957.....	52,853	20,964	828	2,962	17,174	31,889	4,241	10,886	3,028	7,858	2,438	6,708	7,616	2,217	5,399	
1958.....	51,324	19,513	751	2,817	15,945	31,811	3,976	10,750	2,980	7,770	2,481	6,765	7,839	2,191	5,648	
1959 ¹	53,268	20,411	732	3,004	16,675	32,857	4,011	11,127	3,082	8,045	2,549	7,087	8,083	2,233	5,850	
1960.....	54,189	20,434	712	2,926	16,796	33,755	4,004	11,391	3,143	8,248	2,629	7,378	8,353	2,270	6,083	
1961.....	53,999	19,857	672	2,859	16,326	34,142	3,903	11,337	3,133	8,204	2,688	7,620	8,594	2,279	6,315	
1962.....	55,549	20,451	650	2,948	16,853	35,098	3,906	11,566	3,198	8,368	2,754	7,982	8,890	2,340	6,550	
1963.....	56,653	20,640	635	3,010	16,995	36,013	3,903	11,778	3,248	8,530	2,830	8,277	9,225	2,358	6,868	
1964.....	58,283	21,005	634	3,097	17,274	37,278	3,951	12,160	3,337	8,823	2,911	8,660	9,596	2,348	7,248	
1965.....	60,765	21,926	632	3,232	18,062	38,839	4,036	12,716	3,466	9,250	2,977	9,036	10,074	2,378	7,626	
1966.....	63,901	23,158	627	3,317	19,214	40,743	4,158	13,245	3,597	9,648	3,058	9,498	10,784	2,564	8,290	
1967.....	65,803	23,308	613	3,248	19,447	42,495	4,268	13,606	3,689	9,917	3,185	10,045	11,391	2,719	8,672	
1968.....	67,897	23,737	606	3,350	19,781	44,160	4,318	14,099	3,774	10,320	3,337	10,567	11,839	2,737	9,102	
1969.....	70,384	24,362	619	3,575	20,167	46,023	4,442	14,705	3,907	10,798	3,512	11,169	12,195	2,758	9,437	
1970.....	70,880	23,577	623	3,588	19,367	47,302	4,515	15,040	3,993	11,047	3,645	11,548	12,554	2,731	9,823	
1971.....	71,214	22,935	609	3,704	18,623	48,278	4,476	15,352	4,001	11,351	3,772	11,797	12,881	2,696	10,185	
1972.....	73,675	23,668	628	3,889	19,151	50,007	4,541	15,949	4,113	11,836	3,908	12,276	13,334	2,684	10,649	
1973.....	76,790	24,893	642	4,097	20,154	51,897	4,656	16,607	4,277	12,329	4,046	12,857	13,732	2,663	11,068	
1974.....	78,265	24,794	697	4,020	20,077	53,471	4,725	16,987	4,433	12,554	4,148	13,441	14,170	2,724	11,446	
1975.....	76,945	22,600	752	3,525	18,323	54,345	4,542	17,060	4,415	12,645	4,165	13,892	14,686	2,748	11,937	
1976.....	79,382	23,352	779	3,576	18,997	56,030	4,582	17,755	4,546	13,209	4,271	14,551	14,871	2,733	12,138	
1977.....	82,423	24,346	813	3,851	19,682	58,077	4,713	18,516	4,708	13,808	4,467	15,303	15,079	2,727	12,352	
1978.....	86,446	25,597	851	4,271	20,476	60,849	4,927	19,499	4,957	14,542	4,727	16,200	15,476	2,753	12,723	
1978: SEPT.....	87,483	26,375	910	4,644	20,821	61,108	5,000	19,741	5,014	14,727	4,779	16,456	15,132	2,744	12,388	
1978: OCT.....	88,100	26,407	913	4,662	20,832	61,693	5,039	19,813	5,050	14,763	4,788	16,497	15,556	2,746	12,810	
1978: NOV.....	88,622	26,407	920	4,584	20,903	62,215	5,063	20,095	5,069	15,026	4,817	16,537	15,703	2,746	12,957	
1978: DEC.....	88,893	26,220	916	4,402	20,902	62,673	5,084	20,523	5,092	15,431	4,832	16,547	15,687	2,733	12,954	
1979: JAN.....	87,128	25,671	910	3,998	20,763	61,457	5,010	19,765	5,066	14,699	4,829	16,353	15,500	2,730	12,770	
1979: FEB.....	87,331	25,647	915	3,957	20,775	61,684	5,028	19,548	5,067	14,481	4,845	16,545	15,718	2,738	12,980	
1979: MAR.....	88,207	26,039	926	4,226	20,887	62,168	5,060	19,690	5,098	14,592	4,870	16,749	15,799	2,740	13,059	
1979: APR.....	88,820	26,252	932	4,413	20,907	62,568	4,989	19,957	5,112	14,845	4,900	16,897	15,825	2,750	13,075	
1979: MAY.....	89,671	26,594	944	4,662	20,988	63,077	5,125	20,119	5,146	14,973	4,936	17,039	15,858	2,773	13,085	
1979: JUN.....	90,541	27,083	968	4,881	21,234	63,458	5,231	20,222	5,211	15,011	5,003	17,239	15,763	2,824	12,939	
1979: JUL.....	89,618	26,934	976	4,993	20,965	62,684	5,200	20,118	5,208	14,910	5,032	17,314	15,020	2,838	12,182	
1979: AUG.....	89,633	27,030	983	5,041	21,006	62,603	5,206	20,123	5,211	14,912	5,055	17,318	14,901	2,813	12,088	
1979: SEPT.....	90,264	27,179	981	4,967	21,231	63,085	5,231	20,255	5,214	15,041	5,023	17,279	15,297	2,770	12,527	

¹ Data include Alaska and Hawaii beginning 1960. This inclusion has resulted in an increase of 212,000 (0.4 percent) in the nonagricultural total for the March 1960 benchmark month.
p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, data beginning in 1977 may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^p	Sept.-p 1979	Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979
-	TOTAL	86,862	87,483	89,618	89,633	90,264	-	-	-	-	-
-	PRIVATE SECTOR	72,103	72,351	74,598	74,732	74,967	59,040	59,297	60,961	61,066	61,281
-	MINING	916	910	976	983	981	692	688	730	737	734
10	METAL MINING	94.0	92.9	100.3	100.9	-	72.7	72.1	76.9	77.1	-
101	Iron ores	25.4	25.2	25.4	25.6	-	20.6	20.6	20.4	20.3	-
102	Copper ores	29.2	28.9	32.8	33.1	-	22.2	22.1	25.2	25.4	-
11, 12	COAL MINING	250.2	250.4	258.6	260.4	-	208.7	209.1	215.9	218.4	-
12	BITUMINOUS COAL AND LIGNITE MINING	247.2	247.4	255.6	257.4	-	206.1	206.4	213.2	215.7	-
13	OIL AND GAS EXTRACTION	446.3	441.9	485.8	490.4	-	310.1	306.7	333.1	336.3	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	190.4	187.2	207.6	208.4	-	93.6	90.8	97.8	97.8	-
138	Oil and gas field services	255.9	254.7	278.2	282.0	-	216.5	215.9	235.3	238.5	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	125.6	124.3	130.9	131.3	-	100.4	99.9	104.4	104.9	-
142	Crushed and broken stone	42.2	41.8	43.5	43.4	-	35.8	35.4	36.7	36.6	-
144	Sand and gravel	39.6	38.8	42.4	42.0	-	-	-	-	-	-
147	Chemical and fertilizer minerals	23.6	23.8	24.5	25.0	-	-	-	-	-	-
-	CONSTRUCTION	4,688	4,644	4,993	5,041	4,967	3,785	3,751	4,039	4,089	4,010
15	GENERAL BUILDING CONTRACTORS	1,359.6	1,336.3	1,421.3	1,436.0	-	1,075.9	1,055.6	1,118.9	1,131.4	-
152	Residential building construction	728.4	712.7	749.7	756.8	-	566.2	553.7	577.0	582.4	-
153	Operative builders	86.1	84.8	89.7	89.5	-	57.6	56.5	59.3	58.8	-
154	Nonresidential building construction	545.1	538.8	581.9	589.7	-	452.1	445.4	482.6	490.2	-
16	HEAVY CONSTRUCTION CONTRACTORS	962.7	959.1	1,011.4	1,013.8	-	798.6	796.9	858.1	861.0	-
161	Highway and street construction	326.0	319.8	355.9	358.5	-	285.5	279.9	312.5	315.1	-
162	Heavy construction, except highway	636.7	639.3	655.5	655.3	-	513.1	517.0	545.6	545.9	-
17	SPECIAL TRADE CONTRACTORS	2,365.4	2,349.0	2,560.1	2,591.5	-	1,910.4	1,898.4	2,062.2	2,097.0	-
171	Plumbing, heating, air conditioning	546.5	543.8	560.7	566.5	-	421.1	420.2	427.4	434.8	-
172	Painting, paper hanging, decorating	159.9	153.3	179.7	181.3	-	136.6	130.6	153.0	155.2	-
173	Electrical work	390.7	392.7	419.6	425.6	-	306.7	309.9	330.4	336.4	-
174	Masonry, stonework, and plastering	378.1	375.7	429.4	437.3	-	329.8	328.0	375.2	382.1	-
175	Carpentering and flooring	152.2	148.7	158.3	157.5	-	121.2	117.7	123.8	123.9	-
176	Roofing and sheet metal work	175.6	173.7	193.2	195.9	-	145.6	144.3	157.6	160.1	-
-	MANUFACTURING	20,619	20,821	20,965	21,006	21,231	14,787	15,004	14,946	14,971	15,222
24, 25, 32-39	DURABLE GOODS	12,251	12,441	12,712	12,609	12,822	8,744	8,938	9,031	8,921	9,147
20-23, 26-31	NONDURABLE GOODS	8,368	8,380	8,253	8,397	8,409	6,043	6,066	5,915	6,050	6,075
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	775.4	766.4	776.8	778.7	778.7	665.5	656.4	664.1	665.9	664.5
241	Logging camps and logging contractors	90.8	90.7	96.5	97.5	-	74.6	74.6	81.0	82.2	-
242	Sawmills and planing mills	235.3	233.3	237.8	238.1	-	210.9	209.0	213.0	212.8	-
2421	Sawmills and planing mills, general	194.7	192.8	196.9	196.7	-	175.1	173.4	176.8	176.4	-
2426	Hardwood dimension and flooring	33.8	33.5	32.6	33.0	-	29.8	29.4	28.7	28.9	-
243	Millwork, plywood, and structural members	229.6	227.0	227.4	226.6	-	195.0	192.2	191.5	190.8	-
2431	Millwork	81.2	80.3	77.5	77.1	-	67.3	66.4	63.1	62.6	-
2434	Wood kitchen cabinets	51.7	50.5	52.0	52.2	-	43.6	42.2	44.0	44.4	-
2436	Hardwood veneer and plywood	27.4	27.4	26.9	27.3	-	24.5	24.5	23.7	24.3	-
2436	Softwood veneer and plywood	50.4	50.1	51.7	50.8	-	44.2	43.9	45.2	44.2	-
244	Wooden containers	44.7	43.1	44.6	43.3	-	39.5	38.1	39.4	38.0	-
245	Wood buildings and mobile homes	91.3	88.7	86.6	87.1	-	75.0	72.3	69.3	69.9	-
2451	Mobile homes	61.2	60.3	59.0	59.9	-	52.3	51.3	49.1	50.0	-
249	Miscellaneous wood products	83.7	83.6	83.9	86.1	-	70.5	70.2	69.9	72.2	-
25	FURNITURE AND FIXTURES	489.0	493.5	475.5	485.8	490.1	401.4	405.7	386.2	395.4	398.8
251	Household furniture	326.1	330.2	312.3	318.4	-	276.7	280.6	262.6	268.3	-
2511	Wood household furniture	144.3	145.8	137.3	141.3	-	127.6	129.0	121.0	124.8	-
2512	Upholstered household furniture	102.1	102.6	97.4	98.6	-	84.5	85.0	79.6	80.6	-
2514	Metal household furniture	29.6	31.1	29.7	29.3	-	23.5	24.8	23.5	23.2	-
2515	Mattresses and bedsprings	33.2	33.4	31.6	32.5	-	26.0	26.3	24.2	25.1	-
252	Office furniture	47.1	47.3	46.2	47.3	-	38.3	38.5	36.8	37.9	-
253	Public building and related furniture	25.8	26.2	25.0	25.2	-	19.6	20.0	18.9	19.2	-
254	Partitions and fixtures	62.8	62.9	65.7	65.7	-	47.8	47.9	49.8	49.7	-
259	Miscellaneous furniture and fixtures	27.2	26.9	26.3	29.2	-	19.0	18.7	18.1	20.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979 ^a	Sept.-p 1979	Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979 ^a	Sept.-p 1979
32	STONE, CLAY, AND GLASS PRODUCTS	713.9	712.8	727.1	727.9	726.8	568.2	566.6	574.9	573.4	572.3
321	Flat glass	19.8	19.6	20.4	20.4	-	15.6	15.0	15.6	15.6	-
322	Glass and glassware, pressed or blown	135.9	136.3	132.3	131.2	-	116.6	117.3	113.2	112.2	-
3221	Glass containers	77.8	76.9	74.4	73.1	-	68.8	68.2	65.5	64.2	-
3229	Pressed and blown glass, nec	58.1	59.4	57.9	58.1	-	47.8	49.1	47.7	48.0	-
323	Products of purchased glass	47.9	48.3	49.6	50.5	-	34.3	34.6	36.0	36.4	-
324	Cement, hydraulic	33.1	32.5	33.7	33.5	-	26.4	25.8	27.1	26.9	-
325	Structural clay products	51.7	51.0	50.9	50.5	-	41.0	40.2	39.8	38.9	-
326	Pottery and related products	46.0	46.3	45.6	46.4	-	39.0	39.1	38.3	39.1	-
327	Concrete, gypsum, and plaster products	223.4	221.9	230.2	230.6	-	176.6	175.4	181.3	181.2	-
3271	Concrete block and brick	25.7	25.4	26.6	26.4	-	18.2	18.0	19.1	18.9	-
3272	Concrete products, nec	74.8	74.7	75.5	76.2	-	58.8	58.7	58.3	58.9	-
3273	Ready-mixed concrete	100.8	100.0	105.7	105.4	-	81.5	80.8	85.5	84.8	-
329	Misc. nonmetallic mineral products	143.2	143.9	151.3	151.4	-	108.3	108.7	113.0	112.3	-
3291	Abrasive products	28.6	28.3	30.1	29.9	-	19.7	19.3	20.8	20.7	-
3292	Asbestos products	22.6	22.4	22.7	23.1	-	17.4	17.4	17.7	17.9	-
3296	Mineral wool	30.8	30.8	31.7	32.0	-	-	-	-	-	-
33	PRIMARY METAL INDUSTRIES	1,215.5	1,230.8	1,260.7	1,242.1	1,251.1	952.4	968.0	989.2	972.5	984.2
331	Blast furnace and basic steel products	569.0	566.7	580.8	576.5	-	449.4	448.5	460.2	455.3	-
3312	Blast furnaces and steel mills	480.6	478.6	490.5	486.6	-	381.9	380.8	390.0	385.9	-
3317	Steel pipe and tubes	30.6	30.7	31.5	31.3	-	23.6	23.8	24.8	24.5	-
332	Iron and steel foundries	228.3	240.3	240.2	229.9	-	184.2	195.9	195.1	184.8	-
3321	Gray iron foundries	143.9	152.3	148.5	139.0	-	118.0	126.2	122.2	113.1	-
3322	Malleable iron foundries	22.2	22.6	22.4	20.5	-	18.0	18.4	17.8	16.0	-
3325	Steel foundries, nec	51.9	53.2	55.0	56.1	-	41.5	42.7	44.0	44.6	-
333	Primary nonferrous metals	70.9	71.3	73.5	73.5	-	55.4	55.7	57.1	57.0	-
3334	Primary aluminum	36.4	36.2	37.9	37.9	-	29.6	29.4	30.4	30.4	-
335	Nonferrous rolling and drawing	210.6	213.3	219.4	216.5	-	153.3	155.9	159.5	159.1	-
3351	Copper rolling and drawing	33.3	33.2	34.1	33.8	-	25.8	25.8	26.3	26.3	-
3353	Aluminum sheet, plate, and foil	34.7	34.9	36.2	36.0	-	26.1	26.1	27.7	27.7	-
3357	Nonferrous wire drawing and insulating	82.7	84.8	87.8	86.5	-	61.1	62.8	64.3	62.7	-
336	Nonferrous foundries	91.4	93.7	97.5	96.0	-	75.5	77.3	79.6	78.2	-
3361	Aluminum foundries	51.5	52.4	55.3	54.4	-	43.1	43.9	46.0	45.1	-
34	FABRICATED METAL PRODUCTS	1,672.6	1,696.8	1,715.7	1,717.9	1,736.8	1,266.0	1,289.4	1,292.9	1,292.7	1,312.5
341	Metal cans and shipping containers	80.4	80.3	79.5	79.7	-	68.1	67.7	67.5	67.5	-
3411	Metal cans	66.6	66.5	64.8	65.1	-	56.9	56.4	55.3	55.6	-
342	Cutlery, hand tools, and hardware	181.0	183.3	181.8	181.8	-	140.2	142.4	139.9	140.0	-
3423.5	Hand and edge tools, and hand saws and blades	63.4	63.8	64.1	65.2	-	49.6	49.9	49.9	51.0	-
3429	Hardware, nec	101.5	103.2	102.1	100.6	-	78.7	80.5	79.0	77.5	-
343	Plumbing and heating, except electric	73.4	74.9	74.7	76.8	-	54.1	55.8	55.3	57.1	-
3432	Plumbing fittings and brass goods	27.7	28.2	29.0	29.6	-	22.5	22.9	23.9	24.3	-
3433	Heating equipment, except electric	35.3	36.0	34.3	35.6	-	24.5	25.3	23.5	24.8	-
344	Fabricated structural metal products	512.0	514.9	523.1	523.8	-	364.4	366.9	369.1	368.3	-
3441	Fabricated structural metal	100.1	100.7	105.1	107.3	-	71.6	72.4	75.7	77.8	-
3442	Metal doors, sash, and trim	87.5	88.2	87.8	88.9	-	66.3	66.9	65.9	67.1	-
3443	Fabricated plate work (boiler shops)	146.9	147.1	149.0	145.6	-	96.2	96.1	96.3	92.0	-
3444	Sheet metal work	105.4	106.5	109.1	109.0	-	78.7	79.8	80.9	80.4	-
3446	Architectural metal work	30.8	31.1	31.4	31.6	-	22.3	22.6	22.8	22.8	-
345	Screw machine products, bolts, etc.	110.0	111.1	119.8	120.0	-	85.9	87.3	94.1	94.5	-
3451	Screw machine products	52.1	52.9	57.2	57.3	-	42.8	43.8	47.5	47.6	-
3452	Bolts, nuts, rivets, and washers	57.9	58.2	62.6	62.7	-	43.1	43.5	46.6	46.9	-
346	Metal forgings and stampings	295.8	309.1	296.7	293.5	-	237.5	250.1	236.7	232.8	-
3462	Iron and steel forgings	51.1	53.1	55.2	54.0	-	40.9	42.3	43.2	41.8	-
3465	Automotive stampings	108.3	118.7	102.3	97.2	-	89.9	99.9	84.2	79.2	-
3469	Metal stampings, nec	125.3	126.3	128.3	130.9	-	98.1	99.4	100.9	102.8	-
347	Metal services, nec	103.6	104.5	108.1	108.4	-	85.2	85.8	88.4	88.6	-
3471	Plating and polishing	71.1	71.3	73.1	73.2	-	59.2	59.4	60.4	60.6	-
3479	Metal coating and allied services	32.5	33.2	35.0	35.2	-	26.0	26.4	28.0	28.0	-
348	Ordnance and accessories, nec	61.4	60.8	61.5	61.7	-	43.1	42.5	42.3	42.3	-
3483	Ammunition, exc. for small arms, nec	26.5	26.2	26.4	26.7	-	18.7	18.3	18.2	18.4	-
349	Misc. fabricated metal products	255.0	257.9	270.5	272.2	-	187.5	190.9	199.6	201.6	-
3494	Valves and pipe fittings	100.6	101.4	107.2	107.3	-	68.3	69.0	73.0	73.3	-
3496	Misc. fabricated wire products	53.4	54.2	56.0	57.2	-	40.9	41.9	43.3	44.4	-
35	MACHINERY, EXCEPT ELECTRICAL	2,312.6	2,344.4	2,485.1	2,469.8	2,498.8	1,505.6	1,539.4	1,621.7	1,603.2	1,639.8
351	Engines and turbines	134.2	137.0	142.8	142.7	-	86.4	89.4	93.6	93.4	-
3511	Turbines and turbine generator sets	43.8	43.8	41.5	41.3	-	23.3	23.2	21.2	21.1	-
3519	Internal combustion engines, nec	90.4	93.2	101.3	101.4	-	63.1	66.2	72.4	72.3	-
352	Farm and garden machinery	154.3	162.3	178.2	171.6	-	105.0	113.4	125.4	118.4	-
3523	Farm machinery and equipment	137.3	144.3	157.3	152.6	-	94.0	101.2	110.8	105.6	-
353	Construction and related machinery	379.9	383.6	411.4	411.6	-	252.7	256.0	272.8	271.5	-
3531	Construction machinery	166.4	168.5	177.2	177.5	-	113.2	115.2	120.8	120.3	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979	Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979
MACHINERY, EXCEPT ELECTRICAL—Continued											
3532	Mining machinery	36.0	36.4	38.8	39.2	-	22.9	23.3	24.4	24.6	-
3533	Oil field machinery	79.0	79.2	86.5	86.2	-	54.5	54.9	59.1	59.0	-
3535	Conveyers and conveying equipment	33.6	33.6	36.5	37.0	-	19.9	19.7	20.9	21.2	-
3537	Industrial trucks and tractors	36.0	36.3	39.9	39.8	-	24.9	25.2	27.7	27.7	-
354	Metalworking machinery	343.6	348.1	366.4	368.4	-	249.2	254.4	265.0	265.7	-
3541	Machine tools, metal cutting types	72.1	72.8	79.0	78.7	-	46.3	47.3	50.3	49.7	-
3542	Machine tools, metal forming types	24.6	25.1	27.0	26.8	-	15.9	16.6	17.6	17.4	-
3544	Special dies, tools, jigs, and fixtures	127.8	129.0	134.3	134.1	-	102.2	103.6	107.2	106.4	-
3545	Machine tool accessories	62.4	62.9	66.4	68.1	-	44.4	44.9	46.4	47.9	-
3546	Power driven hand tools	32.8	34.4	35.2	36.2	-	24.4	25.8	26.8	27.7	-
355	Special industry machinery	196.9	199.0	207.1	208.3	-	122.7	124.2	128.5	130.3	-
3551	Food products machinery	45.6	46.1	48.0	48.3	-	28.1	28.3	30.0	30.4	-
3552	Textile machinery	25.7	26.8	26.7	27.1	-	18.4	18.9	18.6	19.0	-
3555	Printing trades machinery	38.2	38.4	42.5	42.5	-	22.7	22.7	24.9	25.5	-
356	General industrial machinery	311.4	315.3	325.8	324.2	-	206.2	210.2	213.6	211.6	-
3561	Pumps and pumping equipment	59.6	60.0	60.8	60.2	-	36.7	37.1	36.7	35.9	-
3562	Ball and roller bearings	55.5	56.9	57.4	57.9	-	42.4	43.7	43.8	44.1	-
3563	Air and gas compressors	30.7	30.9	30.9	30.7	-	17.6	17.9	18.0	17.8	-
3564	Blowers and fans	39.4	39.5	41.7	40.8	-	25.1	25.2	25.5	24.6	-
3566	Speed changers, drives, and gears	25.1	25.5	27.9	27.7	-	17.2	17.5	19.0	18.8	-
3568	Power transmission equipment, nec	23.9	24.0	24.7	24.2	-	17.2	17.5	17.9	17.5	-
357	Office and computing machines	350.4	352.8	387.8	388.6	-	156.4	160.0	177.7	178.0	-
3573	Electronic computing equipment	278.1	278.9	311.3	313.1	-	113.2	114.8	132.7	133.4	-
358	Refrigeration and service machinery	183.0	184.2	185.7	177.2	-	128.5	130.1	128.8	120.8	-
3585	Refrigeration and heating equipment	126.6	127.4	128.1	120.2	-	89.0	90.1	89.1	81.6	-
359	Misc. machinery, except electrical	258.9	262.1	279.9	277.2	-	198.5	201.7	216.3	213.5	-
3592	Carburetors, pistons, rings, valves	39.5	41.3	43.8	42.8	-	30.9	32.6	34.7	33.8	-
3599	Machinery, except electrical, nec	219.4	220.8	236.1	234.4	-	167.6	169.1	181.6	179.7	-
ELECTRIC AND ELECTRONIC EQUIPMENT											
36	Electric distributing equipment	2,007.3	2,029.3	2,111.7	2,091.9	2,124.4	1,311.5	1,332.6	1,373.9	1,357.3	1,383.4
361	Transformers	121.9	122.0	121.7	112.1	-	87.0	87.2	86.7	79.5	-
3612	Switchgear and switchboard apparatus	55.1	55.4	56.0	52.0	-	38.7	39.2	40.0	37.6	-
3613	Electrical industrial apparatus	66.8	66.6	65.7	60.1	-	48.3	48.0	46.7	41.9	-
362	Motors and generators	246.9	250.1	264.1	253.3	-	176.7	179.8	190.4	179.4	-
3621	Industrial controls	134.3	136.8	139.3	130.1	-	100.2	102.7	105.4	96.4	-
3622	Household appliances	66.2	66.8	73.8	73.4	-	43.1	43.6	48.0	47.1	-
363	Household refrigerators and freezers	185.3	184.0	176.5	174.8	-	146.1	145.0	139.4	137.5	-
3632	Household laundry equipment	44.2	42.4	38.7	37.1	-	34.6	33.0	31.3	29.6	-
3633	Electric housewares and fans	23.5	23.0	23.5	23.1	-	18.4	17.9	18.4	18.1	-
3634	Electric lighting and wiring equipment	54.7	55.5	52.1	52.5	-	44.0	44.8	41.4	41.9	-
364	Electric lamps	217.8	223.3	226.6	222.7	-	164.9	169.4	170.8	166.6	-
3641	Current-carrying wiring devices	37.2	37.9	38.4	34.2	-	32.5	33.3	34.0	30.1	-
3643	Noncurrent-carrying wiring devices	90.9	92.9	97.3	98.3	-	64.1	65.9	68.0	68.3	-
3644	Residential lighting fixtures	21.5	22.0	22.8	22.8	-	15.4	15.9	16.7	16.6	-
3645	Radio and TV receiving equipment	26.3	26.9	27.4	27.9	-	20.6	20.8	21.1	21.7	-
365	Radio and TV receiving sets	115.0	119.0	110.1	109.5	-	84.8	88.9	81.5	80.7	-
3651	Communication equipment	90.9	93.5	88.8	88.2	-	66.0	68.7	64.5	63.8	-
366	Telephone and telegraph apparatus	496.4	499.4	532.2	534.3	-	241.1	243.9	262.8	265.9	-
3661	Radio and TV communication equipment	150.9	151.7	161.7	162.0	-	103.9	105.0	113.1	113.9	-
3662	Electronic components and accessories	345.5	347.7	370.5	372.3	-	137.2	138.9	149.7	152.0	-
367	Electronic tubes	463.6	466.7	519.7	523.1	-	291.1	294.5	325.0	329.1	-
3671-3	Semiconductors and related devices	41.2	41.6	44.6	44.3	-	27.1	27.4	28.6	28.1	-
3674	Electronic components, nec	171.4	172.0	195.7	195.9	-	79.8	80.9	90.5	92.0	-
3679	Misc. electrical equipment and supplies	183.6	185.2	204.6	207.4	-	130.0	131.5	145.1	147.9	-
369	Storage batteries	160.4	164.8	160.8	162.1	-	119.8	123.9	117.3	118.6	-
3691	Engine electrical equipment	30.1	31.2	29.2	31.5	-	23.7	24.6	22.7	25.0	-
3694	Engine electrical equipment	75.6	78.3	74.2	72.4	-	59.4	62.0	56.9	55.2	-
TRANSPORTATION EQUIPMENT											
37	Motor vehicles and equipment	1,941.0	2,034.8	2,027.7	1,938.8	2,049.7	1,313.6	1,412.0	1,376.9	1,286.7	1,409.1
371	Motor vehicles and car bodies	942.4	1,023.4	969.1	874.4	-	711.6	799.1	740.3	645.0	-
3711	Truck and bus bodies	419.2	474.6	433.8	368.9	-	293.1	354.4	313.5	247.4	-
3713	Motor vehicle parts and accessories	46.8	48.4	49.5	41.8	-	37.9	39.5	39.3	31.6	-
3714	Truck trailers	443.6	467.3	451.3	429.1	-	354.8	379.0	360.5	338.9	-
3715	Aircraft and parts	32.8	33.1	34.5	34.6	-	25.8	26.2	27.0	27.1	-
372	Aircraft	530.6	541.8	607.0	609.8	-	277.1	286.5	328.1	330.0	-
3721	Aircraft engines and engine parts	296.3	300.3	338.7	341.2	-	139.4	143.4	167.5	169.8	-
3724	Aircraft equipment, nec	130.5	135.2	148.6	149.2	-	72.2	75.8	84.3	84.7	-
3728	Ship and boat building and repairing	103.8	106.3	119.7	119.4	-	65.5	67.3	76.3	75.5	-
373	Ship building and repairing	217.5	219.8	213.1	213.4	-	175.1	176.8	172.0	172.6	-
3731	Boat building and repairing	164.6	166.5	163.5	166.4	-	131.9	133.1	131.5	134.6	-
3732	Railroad equipment	52.9	53.3	49.6	47.0	-	43.2	43.7	40.5	38.0	-
374	Guided missiles, space vehicles, parts	64.3	65.5	70.8	70.7	-	48.4	50.2	54.2	54.3	-
376	Guided missiles and space vehicles	93.1	93.1	99.0	99.7	-	28.6	28.6	32.1	32.1	-
3761	Guided missiles and space vehicles	74.2	74.1	78.0	78.5	-	20.7	20.7	23.1	23.3	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979	Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979
TRANSPORTATION EQUIPMENT—Continued											
379	Miscellaneous transportation equipment	74.8	74.0	50.1	51.6	-	58.2	57.4	35.4	37.3	-
3792	Travel trailers and campers	53.0	52.2	29.7	30.2	-	42.8	42.1	21.9	22.7	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	661.7	662.0	692.9	695.5	698.1	404.9	406.6	420.1	421.3	422.0
381	Measuring and controlling devices	65.7	65.7	73.0	73.6	-	32.2	32.7	36.7	36.8	-
382	Environmental controls	217.7	218.5	229.4	230.8	-	137.9	138.9	146.0	146.6	-
3822	Process control instruments	46.6	47.2	46.2	46.9	-	31.7	32.5	32.1	32.8	-
3823	Instruments to measure electricity	48.8	49.0	51.2	49.6	-	25.6	25.5	26.9	25.0	-
3825	Optical instruments and lenses	85.8	85.6	92.6	95.4	-	54.9	54.8	58.6	60.7	-
383	Medical instruments and supplies	28.1	28.4	31.4	31.7	-	15.6	16.0	17.3	17.7	-
384	Surgical and medical instruments	139.4	139.7	145.9	145.9	-	92.7	92.8	95.6	94.4	-
3841	Surgical appliances and supplies	59.4	59.3	61.9	61.9	-	39.7	39.4	40.1	39.1	-
3842	Ophthalmic goods	62.6	63.0	66.2	66.3	-	41.7	42.1	43.8	43.8	-
385	Photographic equipment and supplies	44.5	44.9	44.1	45.1	-	32.8	33.1	32.3	33.0	-
386	Watches, clocks, and watchcases	135.8	133.9	141.2	139.2	-	70.2	69.1	71.0	70.3	-
387	Signs and advertising displays	30.5	30.9	27.9	29.2	-	23.5	24.0	21.2	22.5	-
MISCELLANEOUS MANUFACTURING											
39	INDUSTRIES	461.9	470.6	438.6	460.9	467.0	354.5	360.9	331.5	352.9	360.0
391	Jewelry, silverware, and plated ware	65.1	65.4	56.7	59.3	-	48.5	48.4	41.0	43.5	-
3911	Jewelry, precious metal	43.2	43.0	35.8	37.6	-	31.9	31.3	25.8	27.5	-
393	Musical instruments	25.5	25.9	23.6	24.1	-	20.9	21.3	19.0	19.7	-
394	Toys and sporting goods	125.2	130.2	118.8	128.1	-	97.1	101.2	90.7	99.0	-
3942, 4	Dolls, games, toys, and children's vehicles	65.0	68.8	58.2	67.0	-	49.9	52.9	43.0	50.8	-
3949	Sporting and athletic goods, nec	60.2	61.4	60.6	61.1	-	47.2	48.3	47.7	48.2	-
395	Pens, pencils, office and art supplies	38.0	38.4	41.4	41.6	-	27.5	27.7	29.8	30.0	-
396	Costume jewelry and notions	63.6	65.5	54.9	62.0	-	51.5	53.1	43.6	50.0	-
3961	Costume jewelry	35.4	36.9	28.4	35.0	-	28.8	30.2	22.5	28.5	-
399	Miscellaneous manufactures	144.5	145.2	143.2	145.8	-	109.0	109.2	107.4	110.7	-
3993	Signs and advertising displays	48.1	48.4	49.6	50.1	-	34.8	35.1	35.9	36.6	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	1,819.7	1,825.5	1,737.8	1,814.9	1,831.3	1,261.8	1,273.4	1,193.3	1,266.8	1,284.3
201	Meat products	358.3	358.5	367.7	367.3	-	295.9	296.3	307.2	306.5	-
2011	Meat packing plants	169.3	169.6	165.1	166.0	-	136.4	136.8	134.4	135.2	-
2013	Sausages and other prepared meats	72.0	71.4	70.0	69.8	-	52.8	52.5	51.7	51.3	-
2016	Poultry dressing plants	104.5	104.9	118.8	117.9	-	95.6	95.8	109.2	108.2	-
202	Dairy products	188.1	185.3	188.5	187.5	-	100.3	98.0	101.1	101.1	-
2022	Cheese, natural and processed	32.7	32.5	33.4	33.5	-	25.5	25.4	26.0	26.2	-
2026	Fluid milk	118.9	117.9	118.0	117.2	-	52.0	51.2	51.4	51.3	-
203	Preserved fruits and vegetables	327.1	338.8	255.3	320.8	-	278.8	290.4	209.6	272.0	-
2032	Canned specialties	26.4	28.1	24.8	26.2	-	18.7	20.0	16.9	18.7	-
2033	Canned fruits and vegetables	161.5	165.4	99.4	156.6	-	143.7	146.9	83.0	138.0	-
2037	Frozen fruits and vegetables	50.9	58.2	52.1	57.2	-	43.6	51.2	45.6	49.5	-
204	Grain mill products	145.3	146.5	145.4	145.5	-	98.0	99.6	99.0	99.4	-
2041	Flour and other grain mill products	25.6	25.9	26.5	26.5	-	16.1	16.2	16.6	16.6	-
2048	Prepared feeds, nec	59.5	59.2	59.9	59.2	-	37.6	37.7	38.5	38.0	-
205	Bakery products	235.7	235.7	235.1	235.5	-	137.7	137.4	137.9	137.8	-
2051	Bread, cake, and related products	192.7	191.9	192.4	192.1	-	103.6	102.5	104.5	104.3	-
2052	Cookies and crackers	43.0	43.8	42.7	43.4	-	34.1	34.9	33.4	33.5	-
206	Sugar and confectionery products	107.0	112.6	100.2	108.1	-	81.1	86.5	75.0	82.5	-
2061-3	Cane and beet sugar	29.1	32.1	25.3	25.9	-	20.5	23.5	17.4	17.8	-
2065	Confectionery products	57.3	59.4	54.3	61.2	-	45.7	47.6	42.9	49.6	-
207	Fats and oils	41.6	40.4	38.8	38.8	-	29.6	29.0	27.8	28.1	-
208	Beverages	238.9	233.3	234.8	235.5	-	112.1	110.6	108.9	108.7	-
2082	Malt beverages	52.6	50.9	51.3	50.8	-	35.6	34.1	35.8	35.0	-
2088	Bottled and canned soft drinks	140.7	137.2	142.1	142.7	-	51.1	49.5	50.0	49.9	-
209	Misc. foods and kindred products	177.7	174.4	172.0	175.9	-	128.3	125.6	126.8	130.7	-
21	TOBACCO MANUFACTURES	72.1	75.7	62.1	67.6	69.7	57.4	61.4	48.6	53.8	55.8
211	Cigarettes	44.6	44.1	44.7	44.5	-	34.4	34.3	34.9	34.7	-
22	TEXTILE MILL PRODUCTS	900.3	903.1	875.5	889.7	889.9	783.4	786.6	762.2	775.0	776.5
221	Weaving mills, cotton	147.2	147.6	149.0	150.7	-	132.1	132.5	134.2	135.6	-
222	Weaving mills, synthetics	123.7	124.8	123.4	124.6	-	110.5	111.6	110.3	111.6	-
223	Weaving and finishing mills, wool	20.9	20.8	20.2	21.1	-	17.4	17.4	16.7	17.6	-
224	Narrow fabric mills	25.8	25.8	23.3	25.3	-	22.4	22.6	20.3	22.0	-
225	Knitting mills	242.7	241.3	227.3	233.3	-	210.0	208.6	196.8	202.0	-
2251	Women's hosiery, except socks	28.5	28.8	29.7	30.3	-	25.3	25.7	26.7	27.1	-
2262	Hosiery, nec	35.4	34.9	34.7	34.7	-	32.1	31.7	31.5	31.7	-
2263	Knit outerwear mills	83.9	82.7	72.6	77.6	-	71.9	70.7	62.4	66.8	-
2264	Knit underwear mills	34.2	34.1	32.0	33.6	-	29.4	29.2	27.6	29.0	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

(In thousands)

1972 SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979	Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979
	TEXTILE MILL PRODUCTS—Continued										
2257	Circular knit fabric mills	34.9	35.0	33.6	32.5	-	29.4	29.5	27.9	26.8	-
226	Textile finishing, except wool	78.3	79.3	75.4	75.9	-	66.3	67.3	63.3	63.8	-
2261	Finishing plants, cotton	33.3	33.2	31.8	32.1	-	27.9	27.8	26.5	26.7	-
2262	Finishing plants, synthetics	28.5	29.5	27.7	27.6	-	24.3	25.2	23.4	23.3	-
227	Floor covering mills	61.4	62.1	61.5	61.1	-	49.8	50.5	50.2	49.8	-
228	Yarn and thread mills	130.3	131.2	126.9	130.7	-	118.7	119.5	115.2	119.1	-
2281	Yarn mills, except wool	87.1	87.8	86.0	88.5	-	80.5	81.2	79.4	82.0	-
2282	Throwing and winding mills	21.9	22.1	20.8	21.5	-	19.4	19.7	18.4	19.0	-
229	Miscellaneous textile goods	70.0	70.2	68.5	67.0	-	56.2	56.6	55.2	53.5	-
		1,337.7	1,348.1	1,278.7	1,306.9	1,311.6	1,152.1	1,161.3	1,088.5	1,114.7	1,118.8
	APPAREL AND OTHER TEXTILE PRODUCTS										
23	Men's and boys' suits and coats	92.3	91.6	86.1	87.0	-	81.1	80.4	73.7	74.7	-
232	Men's and boys' furnishings	369.1	369.5	356.8	369.4	-	320.5	319.9	306.5	317.2	-
2321	Men's and boys' shirts and nightwear	108.7	108.2	101.3	107.3	-	94.9	94.3	88.3	93.5	-
2327	Men's and boys' separate trousers	80.7	80.4	77.6	79.4	-	71.0	70.7	67.2	68.9	-
2328	Men's and boys' work clothing	94.9	96.4	99.5	102.0	-	80.9	82.0	83.8	85.5	-
233	Women's and misses' outerwear	442.8	448.0	424.3	433.6	-	383.4	388.3	362.3	372.1	-
2331	Women's and misses' blouses and waists	60.0	61.2	58.8	59.8	-	52.7	53.9	51.2	52.1	-
2335	Women's and misses' dresses	170.3	173.8	164.6	168.1	-	150.9	153.7	144.0	148.2	-
2337	Women's and misses' suits and coats	68.6	68.8	65.2	69.0	-	58.9	59.4	56.3	59.8	-
2339	Women's and misses' outerwear, nec.	143.9	144.2	135.7	136.7	-	120.9	121.3	110.8	112.0	-
234	Women's and children's undergarments	92.4	93.6	85.5	90.0	-	78.8	79.9	71.8	76.1	-
2341	Women's and children's underwear	72.6	73.6	67.5	70.6	-	63.2	64.0	57.6	60.6	-
2342	Brassieres and allied garments	19.8	20.0	18.0	19.4	-	15.6	15.9	14.2	15.5	-
236	Children's outerwear	70.0	69.4	66.6	65.8	-	59.8	59.5	57.6	56.6	-
2361	Children's dresses and blouses	25.8	26.4	25.6	24.3	-	23.1	23.8	23.2	21.8	-
238	Misc. apparel and accessories	60.6	60.7	54.5	57.0	-	52.5	52.4	46.7	48.9	-
239	Misc. fabricated textile products	191.8	195.4	185.2	185.0	-	159.8	163.6	153.1	153.0	-
2391	Curtains and draperies	31.5	31.3	28.5	30.4	-	27.6	27.5	24.4	26.4	-
2392	House furnishings, nec.	52.0	52.6	50.9	52.2	-	43.4	44.0	42.2	43.6	-
2396	Automotive and apparel trimmings	35.9	38.3	35.1	33.2	-	29.7	32.0	28.9	27.0	-
		703.8	701.9	719.6	723.8	721.8	527.9	527.7	547.5	550.8	551.0
	PAPER AND ALLIED PRODUCTS										
26	Paper and pulp mills	196.2	194.3	204.3	204.5	-	147.1	145.8	154.0	154.0	-
261, 268	Paper mills, except building paper	167.0	165.5	174.2	174.4	-	124.2	123.3	129.8	129.9	-
263	Paperboard mills	68.9	69.1	72.3	72.8	-	53.8	54.3	57.4	57.9	-
264	Misc. converted paper products	223.2	222.3	227.5	230.4	-	160.4	160.4	169.0	171.7	-
2641	Paper coating and glazing	57.3	57.5	61.1	62.6	-	31.2	32.4	39.4	41.1	-
2642	Envelopes	24.1	23.9	24.0	24.6	-	18.9	18.8	18.9	19.6	-
2643	Bags, except textile bags	49.9	50.2	52.2	52.8	-	39.2	39.3	40.7	41.0	-
265	Paperboard containers and boxes	215.5	216.2	215.5	216.1	-	166.6	167.2	167.1	167.2	-
2651	Folding paperboard boxes	46.4	46.7	46.5	46.8	-	36.9	37.2	37.0	37.2	-
2653	Corrugated and solid fiber boxes	107.7	107.8	108.3	108.4	-	79.7	79.8	80.5	80.6	-
2654	Sanitary food containers	28.2	28.0	28.3	28.2	-	23.5	23.2	23.8	23.3	-
		1,199.8	1,192.3	1,245.8	1,245.4	1,247.1	673.9	666.3	701.2	702.1	705.6
	PRINTING AND PUBLISHING										
27	Newspapers	411.8	400.7	422.5	421.8	-	166.5	156.6	168.7	168.6	-
272	Periodicals	80.3	80.3	82.4	82.9	-	14.5	14.1	14.0	14.1	-
273	Books	99.9	98.0	102.8	101.8	-	49.1	47.7	52.7	51.2	-
2731	Book publishing	71.4	69.9	73.9	73.2	-	25.1	24.1	28.3	27.1	-
2732	Book printing	28.5	28.1	28.9	28.6	-	24.0	23.6	24.4	24.1	-
274	Miscellaneous publishing	45.7	46.4	48.9	49.2	-	27.5	28.2	29.2	29.5	-
275	Commercial printing	391.5	396.1	410.4	410.9	-	289.0	293.1	303.1	305.0	-
2751	Commercial printing, letterpress	168.0	170.8	172.6	171.6	-	124.2	127.1	126.9	126.5	-
2752	Commercial printing, lithographic	202.2	204.0	216.1	217.0	-	147.1	148.4	158.2	159.9	-
276	Manifold business forms	44.9	45.6	48.7	48.8	-	32.1	32.5	34.5	34.5	-
278	Blankbooks and bookbinding	62.2	62.0	66.1	66.2	-	51.9	51.1	54.8	54.9	-
279	Printing trade services	39.4	39.8	40.5	40.2	-	28.7	29.1	29.8	29.9	-
		1,108.0	1,102.7	1,123.0	1,120.2	1,114.8	633.6	631.7	641.1	638.8	637.2
	CHEMICALS AND ALLIED PRODUCTS										
28	Industrial inorganic chemicals	168.5	167.4	171.8	172.4	-	94.6	93.7	92.7	92.8	-
2619	Industrial inorganic chemicals, nec.	110.0	109.2	111.2	110.3	-	60.3	60.0	59.9	58.8	-
282	Plastics materials and synthetics	218.1	215.9	220.4	219.1	-	148.7	146.9	150.3	149.5	-
2821	Plastics materials and resins	85.0	83.6	86.2	85.6	-	52.6	51.3	52.9	52.3	-
2824	Organic fibers, noncellulosic	97.2	96.6	97.6	96.6	-	69.6	69.2	70.2	69.5	-
283	Drugs	188.8	187.2	192.7	192.7	-	89.6	88.3	95.2	94.9	-
2834	Pharmaceutical preparations	151.3	150.0	154.3	153.9	-	68.5	67.6	73.2	73.0	-
284	Soap, cleaners, and toilet goods	139.1	140.7	139.0	138.8	-	85.4	86.9	83.8	83.2	-
2841	Soap and other detergents	40.9	41.3	40.9	40.8	-	25.9	26.4	26.3	26.2	-
2844	Toilet preparations	58.2	59.3	56.1	56.4	-	37.1	38.0	34.3	34.4	-
2842, 3	Polishing, sanitation, and finishing preparations	40.0	40.1	42.0	41.6	-	22.4	22.5	23.2	22.6	-
285	Paints and allied products	71.0	70.1	71.6	71.7	-	38.1	37.0	37.6	37.6	-
286	Industrial organic chemicals	166.5	165.7	166.9	166.2	-	85.7	86.4	86.9	86.6	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979	Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
2865	Cyclic crudes and intermediates.....	37.1	37.1	37.9	37.9	-	22.9	23.0	23.9	23.9	-
2861,9	Gum, wood, and industrial organic chemicals, nec.....	129.4	128.6	129.0	128.3	-	62.8	63.4	63.0	62.7	-
287	Agricultural chemicals.....	65.2	65.7	68.7	68.4	-	40.1	41.0	43.4	43.0	-
289	Miscellaneous chemical products.....	90.8	90.0	91.4	90.9	-	51.4	51.5	51.2	51.2	-
	PETROLEUM AND COAL PRODUCTS										
29	Petroleum refining.....	213.5	211.6	218.0	219.0	216.4	140.1	138.7	143.2	143.8	143.0
291	Petroleum refining.....	166.9	165.2	170.8	171.7	-	105.2	103.9	107.9	108.3	-
295	Paving and roofing materials.....	35.2	35.2	35.4	35.5	-	27.6	27.7	27.9	28.1	-
	RUBBER AND MISC. PLASTICS PRODUCTS										
30	Tires and inner tubes.....	127.8	127.5	122.4	120.9	-	93.0	92.7	87.3	87.0	-
301	Rubber and plastics footwear.....	24.6	24.7	21.7	23.1	-	21.6	21.6	18.9	20.4	-
302	Reclaimed rubber, and rubber and plastics hose and belting.....	24.0	23.3	23.4	23.6	-	18.0	17.3	17.6	17.8	-
303,4	Fabricated rubber products, nec.....	114.1	114.4	116.4	115.0	-	89.4	89.9	91.6	90.5	-
306	Miscellaneous plastics products.....	463.0	471.7	483.5	482.7	-	367.7	375.7	383.6	381.1	-
	LEATHER AND LEATHER PRODUCTS										
31	Leather tanning and finishing.....	22.9	21.8	19.8	19.9	-	19.4	18.5	16.5	16.7	-
311	Footwear, except rubber.....	160.3	159.0	133.6	148.4	-	140.4	138.9	114.5	127.0	-
314	Men's footwear, except athletic.....	63.7	64.2	53.9	57.3	-	56.2	56.7	46.5	49.7	-
3143	Women's footwear, except athletic.....	64.0	63.2	51.6	61.5	-	56.0	55.0	44.4	52.1	-
3144	Luggage.....	18.0	18.1	17.4	17.9	-	14.1	14.0	13.6	14.0	-
316	Handbags and personal leather goods.....	32.6	32.8	31.3	33.5	-	27.4	27.7	26.6	28.8	-
317											
	TRANSPORTATION AND PUBLIC UTILITIES										
-		4,951	5,000	5,200	5,206	5,231	4,157	4,197	4,359	4,362	4,390
	RAILROAD TRANSPORTATION										
40	Class I railroads.....	532.6	534.2	558.4	563.5	-	-	-	-	-	-
4011	Class I railroads.....	489.1	490.7	513.2	517.9	-	-	-	-	-	-
	LOCAL AND INTERURBAN PASSENGER TRANSIT										
41	Local and suburban transportation.....	219.0	261.8	222.5	218.5	-	199.3	241.8	203.2	199.7	-
411	Taxis.....	69.9	70.9	72.0	72.3	-	64.7	65.7	66.9	67.0	-
412	Taxis.....	63.4	63.6	62.6	61.9	-	-	-	-	-	-
413	Intercity highway transportation.....	38.3	37.0	39.0	39.9	-	35.3	34.1	36.2	37.0	-
413	School buses.....	34.2	76.6	36.4	32.8	-	-	-	-	-	-
415											
	TRUCKING AND WAREHOUSING										
42	Trucking and trucking terminals.....	1,337.5	1,352.2	1,401.8	1,393.4	-	1,186.0	1,198.9	1,240.0	1,231.1	-
421,3	Trucking and trucking terminals.....	1,247.3	1,262.0	1,313.7	1,304.4	-	1,137.8	1,120.8	1,164.4	1,154.8	-
422	Public warehousing.....	90.2	90.2	88.1	89.0	-	78.2	78.1	75.6	76.3	-
42											
	WATER TRANSPORTATION										
44		212.7	213.4	234.8	238.4	-	-	-	-	-	-
	TRANSPORTATION BY AIR										
45	Air transportation.....	405.3	406.1	430.3	433.4	-	-	-	-	-	-
451,2	Air transportation.....	363.1	364.0	383.6	386.8	-	-	-	-	-	-
	PIPE LINES, EXCEPT NATURAL GAS										
46		20.5	19.6	20.2	19.8	-	15.0	14.2	14.5	14.2	-
	TRANSPORTATION SERVICES										
47		171.4	172.5	187.9	189.0	-	-	-	-	-	-
	COMMUNICATION										
48	Telephone communication.....	1,259.3	1,257.6	1,318.5	1,323.5	-	954.6	951.1	995.3	997.8	-
481	Telephone communication.....	1,009.4	1,007.3	1,056.2	1,060.0	-	751.8	748.0	779.3	780.8	-
483	Radio and television broadcasting.....	183.0	183.1	191.9	193.4	-	144.2	144.6	154.2	155.4	-
	ELECTRIC, GAS, AND SANITARY SERVICES										
49	Electric services.....	793.0	782.5	826.0	826.4	-	649.6	639.0	674.9	675.3	-
491	Electric services.....	360.0	356.8	379.1	379.7	-	291.1	287.9	306.8	307.4	-
492	Gas production and distribution.....	168.4	165.3	174.3	174.2	-	138.4	135.3	142.8	142.9	-
493	Combination utility services.....	195.9	192.4	199.1	198.7	-	160.7	156.9	161.6	161.1	-
495	Sanitary services.....	44.3	44.2	47.5	47.8	-	39.1	39.2	42.2	42.4	-
	WHOLESALE AND RETAIL TRADE										
-		19,622	19,741	20,118	20,123	20,255	17,282	17,391	17,667	17,675	17,775
	WHOLESALE TRADE										
50,51		5,008	5,014	5,208	5,211	5,214	4,132	4,133	4,281	4,282	4,282
	WHOLESALE TRADE - DURABLE GOODS										
50	Motor vehicles and automotive equipment.....	2,918	2,920	3,076	3,077	-	2,405	2,402	2,528	2,527	-
501	Motor vehicles and automotive equipment.....	424.1	424.7	438.9	439.3	-	349.0	348.6	358.5	358.5	-
502	Furniture and home furnishing.....	102.3	103.2	105.4	105.7	-	82.8	83.4	85.6	86.0	-
503	Lumber and construction materials.....	183.7	182.2	190.8	190.0	-	153.9	152.6	160.1	159.5	-
504	Sporting goods, toys, and hobby goods.....	64.0	63.7	63.8	63.5	-	53.3	53.0	52.5	52.0	-
505	Metals and minerals, except petroleum.....	144.7	144.5	155.6	154.9	-	117.3	117.8	126.7	126.2	-
506	Electrical goods.....	391.8	394.7	414.4	415.6	-	322.9	324.6	338.9	339.1	-
507	Hardware, plumbing, and heating equipment.....	233.0	232.3	242.9	244.2	-	193.8	192.9	201.6	202.3	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979	Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979
	WHOLESALE TRADE-DURABLE GOODS—										
	Continued										
508	Machinery, equipment, and supplies	1,178.5	1,177.5	1,255.9	1,255.5	-	966.7	963.9	1,027.9	1,026.8	-
509	Miscellaneous durable goods	196.2	197.1	208.6	208.2	-	164.8	165.6	176.3	176.2	-
51	WHOLESALE TRADE-NONDURABLE GOODS	2,090.0	2,094.0	2,132.0	2,134.0	-	1,727.0	1,731.0	1,753.0	1,755.0	-
511	Paper and paper products	134.6	134.6	140.8	140.3	-	109.2	109.4	114.1	114.2	-
512	Drugs, proprietaries, and sundries	138.4	139.9	141.2	142.8	-	118.2	119.4	121.4	122.8	-
513	Apparel, piece goods, and notions	164.1	164.7	169.8	171.0	-	130.7	131.5	134.7	135.8	-
514	Groceries and related products	640.7	646.1	653.6	654.2	-	556.3	561.4	563.4	562.9	-
516	Chemicals and allied products	116.7	114.7	117.5	118.0	-	83.5	82.1	85.6	85.9	-
517	Petroleum and petroleum products	230.4	227.3	223.4	221.3	-	176.1	172.9	163.7	162.9	-
518	Beer, wine, and distilled beverages	132.7	132.6	141.6	141.8	-	113.2	112.7	120.5	120.8	-
519	Miscellaneous nondurable goods	390.7	385.5	403.9	404.2	-	323.7	318.3	334.2	334.4	-
52-59	RETAIL TRADE	14,614	14,727	14,910	14,912	15,041	13,150	13,258	13,386	13,393	13,493
52	BUILDING MATERIALS AND GARDEN										
	SUPPLIES	621.8	617.1	637.8	632.2	-	532.4	527.8	544.4	540.6	-
521	Lumber and other building materials	336.8	332.2	344.3	341.4	-	291.1	286.6	295.4	293.6	-
525	Hardware stores	142.3	141.2	147.9	146.9	-	121.7	120.8	127.8	126.9	-
53	GENERAL MERCHANDISE STORES	2,249.4	2,286.0	2,181.7	2,165.2	-	2,095.2	2,134.4	2,028.7	2,010.4	-
531	Department stores	1,831.3	1,861.0	1,757.9	1,738.1	-	1,716.6	1,748.5	1,645.4	1,625.0	-
533	Variety stores	283.2	291.9	275.8	277.2	-	263.3	272.2	254.6	254.5	-
539	Misc. general merchandise stores	134.9	133.1	148.0	149.9	-	115.3	113.7	128.7	130.9	-
54	FOOD STORES	2,183.4	2,197.7	2,265.4	2,260.6	-	2,013.5	2,027.1	2,089.0	2,086.8	-
541	Grocery stores	1,913.0	1,921.8	1,995.0	1,992.8	-	1,767.9	1,776.1	1,842.3	1,842.2	-
542	Meat markets and freezer provisioners	49.1	49.1	51.7	51.1	-	-	-	-	-	-
546	Retail bakeries	121.5	125.3	124.5	123.0	-	111.2	114.9	114.4	113.0	-
55	AUTOMOTIVE DEALERS AND SERVICE										
	STATIONS	1,879.6	1,878.9	1,802.4	1,801.4	-	1,614.2	1,614.6	1,533.7	1,533.2	-
551.2	New and used car dealers	898.7	899.7	892.0	885.8	-	752.0	752.4	740.8	734.6	-
553	Auto and home supply stores	261.5	262.4	264.1	261.9	-	228.2	229.0	231.4	228.4	-
564	Gasoline service stations	633.8	632.7	552.6	561.3	-	561.1	561.7	481.4	490.8	-
56	APPAREL AND ACCESSORY STORES	880.4	893.9	903.5	911.1	-	761.0	772.0	776.2	783.2	-
561	Men's and boys' clothing and furnishings	135.4	134.2	138.0	136.6	-	115.6	114.4	117.6	116.0	-
562	Women's ready-to-wear stores	334.0	342.0	343.5	345.2	-	290.6	296.8	298.1	299.8	-
565	Family clothing stores	163.8	164.6	169.7	174.0	-	145.5	146.0	148.7	152.7	-
566	Shoe stores	164.7	169.0	169.6	170.7	-	137.1	141.3	140.0	141.0	-
57	FURNITURE AND HOME FURNISHINGS										
	STORES	590.3	597.2	609.7	609.3	-	489.3	495.1	504.9	504.0	-
571	Furniture and home furnishings	359.1	363.3	364.8	364.8	-	302.5	305.9	306.5	306.4	-
572	Household appliance stores	86.1	86.9	90.5	90.7	-	73.0	73.8	77.2	77.4	-
573	Radio, television, and music stores	145.1	147.0	154.4	153.8	-	113.8	115.4	121.2	120.2	-
58	EATING AND DRINKING PLACES	4,426.1	4,446.2	4,670.0	4,690.2	-	4,080.4	4,094.8	4,295.7	4,318.0	-
59	MISCELLANEOUS RETAIL	1,782.9	1,809.6	1,839.1	1,841.9	-	1,563.7	1,592.1	1,613.8	1,617.0	-
591	Drug stores and proprietary stores	485.3	488.1	507.3	506.9	-	441.7	444.5	461.6	461.7	-
592	Liquor stores	122.7	123.2	136.0	137.6	-	-	-	-	-	-
594	Miscellaneous shopping goods stores	531.4	542.4	553.4	556.0	-	454.3	466.0	472.1	473.5	-
596	Nonstore retailers	272.6	279.9	252.9	256.0	-	253.9	261.0	236.7	240.2	-
598	Fuel and ice dealers	96.0	97.2	96.6	96.2	-	80.7	81.9	81.4	81.0	-
599	Retail stores, nec.	222.6	225.8	238.4	235.0	-	186.6	189.9	199.6	196.7	-
-	FINANCE, INSURANCE, AND REAL										
	ESTATE ²	4,809	4,779	5,032	5,055	5,023	3,665	3,638	3,841	3,854	3,813
60	BANKING	1,443.5	1,434.6	1,504.1	1,510.2	-	1,129.3	1,119.5	1,167.4	1,171.2	-
602	Commercial and stock savings banks	1,318.0	1,310.2	1,372.5	1,378.3	-	1,026.9	1,018.1	1,059.9	1,063.7	-
61	CREDIT AGENCIES OTHER THAN BANKS	522.7	522.4	553.3	556.2	-	402.5	401.9	425.6	428.4	-
612	Savings and loan associations	222.1	221.8	239.7	240.8	-	174.2	173.5	186.1	187.1	-
614	Personal credit institutions	201.4	201.6	211.7	212.4	-	152.9	153.0	161.8	162.6	-
62	SECURITY, COMMODITY BROKERS, AND										
	SERVICES	192.5	193.1	207.7	208.7	-	-	-	-	-	-
621	Security brokers and dealers	155.3	155.7	166.3	167.2	-	-	-	-	-	-
63	INSURANCE CARRIERS	1,186.4	1,182.8	1,219.3	1,222.4	-	827.4	825.8	858.0	856.9	-
631	Life insurance	520.2	517.8	525.8	526.7	-	309.4	309.2	315.5	314.7	-

See footnotes at end of table.

**ESTABLISHMENT DATA
EMPLOYMENT**

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979	Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979
	INSURANCE CARRIERS—Continued										
632	Medical service and health insurance	136.6	136.1	137.7	137.8	-	110.3	109.6	110.4	110.7	-
633	Fire, marine, and casualty insurance	455.4	455.7	480.0	481.6	-	346.9	346.9	369.7	369.4	-
64	INSURANCE AGENTS, BROKERS, AND SERVICE	410.2	410.5	431.9	437.6	-	-	-	-	-	-
65	REAL ESTATE	921.2	905.6	979.2	982.2	-	-	-	-	-	-
651	Real estate operators and lessors	431.4	425.3	451.8	454.3	-	-	-	-	-	-
653	Real estate agents and managers	334.5	328.6	360.3	360.6	-	-	-	-	-	-
655	Subdividers and developers	131.5	128.2	142.4	142.5	-	-	-	-	-	-
66	COMBINED REAL ESTATE, INSURANCE, ETC.	27.6	27.3	26.9	27.2	-	-	-	-	-	-
67	HOLDING AND OTHER INVESTMENT OFFICES.	104.7	103.0	109.6	110.8	-	-	-	-	-	-
-	SERVICES	16,498	16,456	17,314	17,318	17,279	14,672	14,628	15,379	15,378	15,337
70	HOTELS AND OTHER LODGING PLACES	1,089.1	1,016.1	1,166.0	1,167.2	-	-	-	-	-	-
701	Hotels, motels, and tourist courts	1,011.8	971.7	1,090.2	1,086.9	-	933.9	893.9	1,004.9	1,001.8	-
72	PERSONAL SERVICES	892.3	903.1	886.3	886.0	-	-	-	-	-	-
721	Laundry, cleaning, and garment services	355.6	357.1	352.7	349.2	-	317.9	318.7	314.8	310.8	-
723	Beauty shops	276.2	280.0	274.8	277.0	-	254.8	258.9	253.5	255.6	-
726	Funeral service and crematories	69.3	69.4	72.4	72.0	-	-	-	-	-	-
73	BUSINESS SERVICES	2,659.9	2,686.7	2,835.2	2,869.2	-	2,314.7	2,343.8	2,466.4	2,499.8	-
731	Advertising	143.3	143.7	149.3	149.0	-	105.6	105.8	110.5	110.2	-
732	Credit reporting and collection	77.0	77.3	76.7	75.8	-	-	-	-	-	-
733	Mailing, reproduction, stenographic	101.5	105.0	101.4	102.9	-	-	-	-	-	-
734	Services to buildings	458.9	455.4	488.4	493.3	-	412.4	409.4	441.3	445.6	-
736	Personnel supply services	454.2	474.5	486.3	499.6	-	-	-	-	-	-
737	Computer and data processing services	224.9	226.7	259.2	260.3	-	183.7	185.2	213.5	215.0	-
75	AUTO REPAIR, SERVICES, AND GARAGES	553.6	557.0	571.9	565.6	-	475.2	478.9	488.6	482.1	-
753	Automotive repair shops	350.8	351.4	361.3	357.6	-	299.6	300.8	307.3	303.2	-
76	MISCELLANEOUS REPAIR SERVICES	258.2	258.8	278.6	278.2	-	220.7	221.0	239.0	237.7	-
78	MOTION PICTURES	228.9	219.6	223.3	226.1	-	201.2	192.7	200.5	202.5	-
781	Motion picture production and services	80.6	78.0	73.3	76.2	-	68.2	66.2	64.1	66.8	-
783	Motion picture theaters	137.3	130.6	139.2	139.3	-	-	-	-	-	-
79	AMUSEMENT AND RECREATION SERVICES	820.1	781.7	833.1	815.6	-	752.0	713.5	761.3	739.2	-
80	HEALTH SERVICES	4,855.4	4,852.7	5,073.2	5,093.2	-	4,329.7	4,321.3	4,516.6	4,536.7	-
801	Offices of physicians	689.1	687.0	720.8	724.6	-	568.4	563.3	590.1	593.8	-
802	Offices of dentists	299.1	301.4	314.5	316.9	-	259.0	261.9	275.1	274.7	-
805	Nursing and personal care facilities	936.2	934.1	988.5	998.6	-	845.9	843.3	890.7	901.1	-
806	Hospitals	2,572.1	2,569.9	2,665.1	2,668.1	-	2,348.4	2,344.9	2,431.0	2,436.0	-
81	LEGAL SERVICES	442.0	433.9	473.0	471.0	-	382.0	374.8	406.3	405.1	-
82	EDUCATIONAL SERVICES	871.6	996.4	906.9	892.9	-	-	-	-	-	-
821	Elementary and secondary schools	192.7	224.4	207.7	204.4	-	-	-	-	-	-
822	Colleges and universities	575.3	664.1	589.1	579.9	-	-	-	-	-	-
83	SOCIAL SERVICES	1,041.1	984.1	1,121.2	1,100.5	-	-	-	-	-	-
86	MEMBERSHIP ORGANIZATIONS	1,512.0	1,506.2	1,588.3	1,588.0	-	-	-	-	-	-
89	MISCELLANEOUS SERVICES	884.6	876.7	954.1	961.1	-	735.1	726.3	793.2	797.0	-
891	Engineering and architectural services	487.2	477.1	525.8	527.2	-	413.9	403.3	447.7	448.6	-
893	Accounting, auditing, and bookkeeping	272.7	274.1	293.2	297.2	-	216.1	217.5	233.8	235.7	-
-	GOVERNMENT ⁴	14,759	15,132	15,020	14,901	15,297	-	-	-	-	-
-	FEDERAL GOVERNMENT	2,793	2,744	2,838	2,813	2,770	-	-	-	-	-
-	Executive	2,738.5	2,691.9	2,783.0	2,760.0	-	-	-	-	-	-
-	Department of Defense	918.6	905.4	908.5	977.0	-	-	-	-	-	-
-	Postal Service	649.0	651.9	665.4	665.0	-	-	-	-	-	-
-	Other executive agencies	1,170.9	1,134.6	1,209.1	1,118.0	-	-	-	-	-	-
-	Manufacturing activities	123.6	122.2	122.8	121.8	-	-	-	-	-	-
-	Shipbuilding	71.9	71.0	71.9	71.5	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT

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

[In thousands]

1972 SIC Code	Industry	All employees					Production workers ¹				
		Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979 ^p	Sept.-p 1979	Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979 ^p	Sept.-p 1979
-	Executive—Continued										
-	Transportation and public utilities, except Postal Service	48.4	48.1	52.2	52.1	-	-	-	-	-	-
-	Services	405.2	392.8	397.1	397.2	-	-	-	-	-	-
-	Hospitals	235.8	230.0	229.3	228.6	-	-	-	-	-	-
-	Legislative	41.0	39.3	41.2	40.0	-	-	-	-	-	-
-	Judicial	13.0	13.0	13.4	13.0	-	-	-	-	-	-
-	STATE AND LOCAL GOVERNMENT	11,966	12,388	12,182	12,088	12,527	-	-	-	-	-
-	State government	3,226.1	3,349.8	3,268.5	3,277.7	-	-	-	-	-	-
-	Hospitals	552.3	553.2	562.4	563.7	-	-	-	-	-	-
-	State education	1,126.3	1,298.2	1,162.3	1,164.7	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	943.1	910.9	931.1	928.6	-	-	-	-	-	-
-	Local government	8,740.0	9,038.0	8,913.2	8,809.8	-	-	-	-	-	-
-	Transportation and public utilities	573.1	571.5	593.1	593.3	-	-	-	-	-	-
-	Hospitals	517.0	515.5	533.2	534.6	-	-	-	-	-	-
-	Local education	4,299.3	4,837.0	4,360.8	4,306.1	-	-	-	-	-	-
-	General administration including executive, legislative, and judicial functions	2,970.2	2,761.4	3,011.3	2,968.4	-	-	-	-	-	-

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

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

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

⁴ Prepared by the U.S. Civil Service Commission. Data relate to civilian employment only and exclude Central Intelligence and National Security Agencies.

* Not available.

p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

B-3. Women employees on nonagricultural payrolls by industry

[In thousands]

1972 SIC Code	Industry	June 1978	July 1978	May 1979	June 1979	July 1979
-	TOTAL	35,493	34,591	37,004	37,134	36,341
-	PRIVATE SECTOR	28,201	28,057	29,501	29,780	29,617
-	MINING	78	79	89	93	94
10	METAL MINING	7.1	7.2	7.9	8.6	8.8
11, 12	COAL MINING	8.4	8.4	8.9	9.2	9.2
13	OIL AND GAS EXTRACTION	54.2	55.5	63.1	65.6	66.9
131, 2	Crude petroleum, natural gas, and natural gas liquids.....	35.6	36.3	40.3	42.3	43.2
138	Oil and gas field services.....	18.6	19.2	22.8	23.3	23.7
14	NONMETALLIC MINERALS, EXCEPT FUELS	8.1	8.2	8.8	9.3	9.5
142	Crushed and broken stone.....	2.5	2.5	2.7	2.8	2.8
144	Sand and gravel.....	2.6	2.6	2.9	3.1	3.2
-	CONSTRUCTION	341	344	365	379	385
15	GENERAL BUILDING CONTRACTORS	126.8	126.9	132.2	136.2	140.1
152	Residential building construction.....	77.5	77.3	79.3	81.5	84.7
153	Operative builders.....	16.9	16.6	17.0	18.0	17.9
154	Nonresidential building construction.....	32.4	33.0	35.9	36.7	37.5
16	HEAVY CONSTRUCTION CONTRACTORS	51.5	52.7	52.8	56.5	57.9
161	Highway and street construction.....	14.2	14.9	16.8	18.8	19.9
162	Heavy construction, except highway.....	37.3	37.8	36.0	37.7	38.0
17	SPECIAL TRADE CONTRACTORS	162.2	164.0	180.2	185.8	187.3
171	Plumbing, heating, air conditioning.....	44.3	45.1	47.8	48.1	49.3
172	Painting, paper hanging, decorating.....	10.0	10.2	11.7	12.6	13.0
173	Electrical work.....	29.2	29.4	30.5	31.5	32.1
174	Masonry, stonework, and plastering.....	18.5	18.8	22.0	21.9	22.3
175	Carpentering and flooring.....	12.9	13.2	15.1	16.8	16.2
176	Roofing and sheet metal work.....	11.2	11.2	12.6	13.1	13.1
-	MANUFACTURING	6,274	6,148	6,445	6,534	6,414
24, 25, 32-39	DURABLE GOODS	2,906	2,867	3,080	3,121	3,075
20-23, 26-31	NONDURABLE GOODS	3,368	3,281	3,365	3,413	3,339
	DURABLE GOODS					
24	LUMBER AND WOOD PRODUCTS	109.6	107.9	114.1	115.9	114.1
241	Logging camps and logging contractors.....	5.1	5.1	4.9	5.3	5.5
242	Sawmills and planing mills.....	21.5	21.1	22.3	22.9	22.6
2421	Sawmills and planing mills, general.....	14.9	14.7	15.3	15.7	15.7
243	Millwork, plywood, and structural members.....	44.1	43.9	47.0	47.1	46.6
244	Wooden containers.....	7.5	7.3	7.5	7.8	7.7
245	Wood buildings and mobile homes.....	10.7	10.7	11.0	11.4	11.1
249	Miscellaneous wood products.....	20.7	19.8	21.4	21.4	20.6
25	FURNITURE AND FIXTURES	141.4	137.4	143.7	143.2	140.2
251	Household furniture.....	106.1	102.3	106.4	106.0	103.2
2511	Wood household furniture.....	45.0	43.4	45.1	45.3	43.0
2512	Upholstered household furniture.....	36.3	34.8	36.3	36.5	35.2
2515	Mattresses and bedsprings.....	8.7	8.7	8.7	8.6	8.7
252	Office furniture.....	10.2	10.3	11.2	11.1	11.3
253	Public building and related furniture.....	5.0	5.0	5.3	5.4	5.3
254	Partitions and fixtures.....	9.8	9.5	10.6	11.0	10.8
259	Miscellaneous furniture and fixtures.....	10.3	10.3	10.2	9.7	9.6
32	STONE, CLAY, AND GLASS PRODUCTS	130.4	129.9	133.9	136.6	135.3
322	Glass and glassware, pressed or blown.....	47.0	46.7	43.9	44.8	44.3
3221	Glass containers.....	28.1	27.8	25.0	25.7	25.2
3229	Pressed and blown glass, nec.....	18.9	18.9	18.9	19.1	19.1
323	Products of purchased glass.....	11.7	11.6	13.6	14.2	13.9
324	Cement, hydraulic.....	1.7	1.7	1.7	1.8	1.8
325	Structural clay products.....	6.4	6.0	6.7	6.8	6.7
326	Pottery and related products.....	16.2	15.9	16.4	16.4	16.0
327	Concrete, gypsum, and plaster products.....	14.7	14.9	15.5	15.8	16.0
329	Misc. nonmetallic mineral products.....	29.8	30.1	32.8	33.5	33.3
33	PRIMARY METAL INDUSTRIES	120.5	121.9	134.4	137.7	136.8
331	Blast furnace and basic steel products.....	39.3	40.0	43.5	45.5	46.8
3312	Blast furnaces and steel mills.....	30.5	31.4	33.9	35.7	37.1
332	Iron and steel foundries.....	17.5	18.5	21.4	21.5	20.8

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	June 1978	July 1978	May 1979	June 1979	July 1979
PRIMARY METAL INDUSTRIES—Continued						
3321	Gray iron foundries	9.6	9.7	10.5	10.6	10.1
3322	Malleable iron foundries	1.6	1.6	1.8	1.8	1.8
3325	Steel foundries, nec	4.0	4.2	4.7	4.7	4.6
333	Primary nonferrous metals	4.5	4.7	4.7	5.0	5.1
3334	Primary aluminum	1.7	1.8	1.9	2.1	2.2
335	Nonferrous rolling and drawing	39.5	39.1	43.0	43.6	42.7
3351	Copper rolling and drawing	3.6	3.8	3.9	4.1	4.0
3353	Aluminum sheet, plate, and foil	4.3	4.0	4.4	4.6	4.6
3357	Nonferrous wire drawing and insulating	23.1	22.8	25.4	25.4	24.6
336	Nonferrous foundries	14.9	14.8	16.6	16.8	16.1
3361	Aluminum foundries	7.2	7.1	8.0	8.1	8.0
34	FABRICATED METAL PRODUCTS	346.9	338.5	362.0	366.4	358.6
341	Metal cans and shipping containers	13.5	13.4	13.7	13.8	13.8
3411	Metal cans	11.9	11.8	11.8	11.9	11.9
342	Cutlery, hand tools, and hardware	62.1	60.3	62.9	63.2	60.9
3423, 5	Hand and edge tools, and hand saws and blades	17.1	16.8	17.3	17.7	17.3
3429	Hardware, nec	37.9	36.4	38.4	38.3	36.7
343	Plumbing and heating, except electric	17.7	17.0	19.3	19.6	19.1
344	Fabricated structural metal products	70.2	69.5	72.2	73.4	73.9
3441	Fabricated structural metal	7.0	6.9	7.4	7.7	7.6
3442	Metal doors, sash, and trim	24.3	23.7	23.3	23.8	24.2
3443	Fabricated plate work (boiler shops)	14.8	15.0	16.2	16.3	16.5
3444	Sheet metal work	14.6	14.3	15.3	15.5	15.5
345	Screw machine products, bolts, etc.	23.3	22.8	26.3	26.5	26.2
3451	Screw machine products	12.0	11.6	13.5	13.6	13.3
3452	Bolts, nuts, rivets, and washers	11.3	11.2	12.8	12.9	12.9
346	Metal forgings and stampings	58.7	56.2	59.8	60.6	58.2
3462	Iron and steel forgings	3.5	3.6	4.6	4.7	4.5
3465	Automotive stampings	15.1	14.4	15.2	15.3	14.1
3469	Metal stampings, nec	37.8	36.0	37.9	38.5	37.5
347	Metal services, nec	26.6	25.2	26.7	27.1	26.0
3471	Plating and polishing	19.0	17.6	18.4	18.5	17.7
3479	Metal coating and allied services	7.6	7.6	8.3	8.6	8.3
348	Ordnance and accessories, nec	16.7	16.7	17.5	17.7	17.7
349	Misc. fabricated metal products	58.1	57.4	63.6	64.5	62.8
3494	Valves and pipe fittings	21.0	21.0	23.3	23.6	23.4
3496	Misc. fabricated wire products	13.1	12.8	14.7	14.9	14.3
35	MACHINERY, EXCEPT ELECTRICAL	429.2	429.7	471.0	473.2	476.3
351	Engines and turbines	22.3	22.6	25.7	25.3	25.2
3511	Turbines and turbine generator sets	5.9	6.0	5.8	5.8	5.8
3519	Internal combustion engines, nec	16.4	16.6	19.9	19.5	19.4
352	Farm and garden machinery	23.3	22.9	26.5	26.9	27.0
3523	Farm machinery and equipment	17.7	17.8	20.4	20.8	20.9
353	Construction and related machinery	40.5	40.8	44.6	45.8	46.0
3531	Construction machinery	14.2	14.2	14.0	14.3	14.3
3533	Oil field machinery	9.3	9.4	11.3	11.6	11.8
354	Metalworking machinery	52.4	52.4	57.8	58.6	58.2
3541	Machine tools, metal cutting types	8.5	8.6	9.9	10.0	10.2
3544	Special dies, tools, jigs, and fixtures	14.1	14.2	16.2	16.0	15.8
3545	Machine tool accessories	12.6	12.6	14.0	14.4	14.1
355	Special industry machinery	29.1	29.0	30.6	31.1	31.4
3551	Food products machinery	6.0	5.9	6.5	6.5	6.6
3552	Textile machinery	5.1	4.9	5.2	5.3	5.3
3555	Printing trades machinery	7.1	7.2	7.2	7.4	7.4
356	General industrial machinery	57.2	57.0	61.8	62.6	62.8
3561	Pumps and pumping equipment	10.4	10.4	11.1	11.2	11.1
3562	Ball and roller bearings	13.2	13.0	13.6	13.9	13.8
357	Office and computing machines	120.2	122.0	134.6	134.7	139.2
3573	Electronic computing equipment	93.5	95.3	106.7	108.6	112.5
358	Refrigeration and service machinery	37.5	37.0	40.7	39.1	37.6
3585	Refrigeration and heating equipment	24.5	24.4	27.6	25.9	24.7
359	Misc. machinery, except electrical	46.7	46.0	48.7	49.1	48.9
3599	Machinery, except electrical, nec	36.8	36.4	36.9	37.3	37.5
36	ELECTRIC AND ELECTRONIC EQUIPMENT	836.0	825.8	887.0	903.9	893.7
361	Electric distributing equipment	43.4	42.6	44.3	45.4	44.2
3612	Transformers	19.5	19.1	19.5	19.8	19.2
3613	Switchgear and switchboard apparatus	23.9	23.5	24.8	25.6	25.0
362	Electrical industrial apparatus	94.2	93.8	101.1	102.9	101.5
3621	Motors and generators	53.0	52.8	57.1	57.6	56.4
3622	Industrial controls	28.6	28.3	29.9	30.9	30.5
363	Household appliances	65.8	63.8	58.2	59.3	58.7
3632	Household refrigerators and freezers	13.7	13.4	10.1	10.4	9.8
3633	Household laundry equipment	5.4	5.6	4.9	5.1	5.0
3634	Electric housewares and fans	28.2	27.0	25.5	25.6	25.9
364	Electric lighting and wiring equipment	99.9	97.4	106.9	108.0	105.3
3641	Electric lamps	23.4	23.3	24.6	24.8	24.5

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	June 1978	July 1978	May 1979	June 1979	July 1979
ELECTRIC AND ELECTRONIC EQUIPMENT—Continued						
3643	Current-carrying wiring devices	44.3	43.4	48.6	49.2	48.3
365	Radio and TV receiving equipment	60.5	59.2	58.0	60.0	57.9
3651	Radio and TV receiving sets	45.9	44.6	46.1	46.9	45.4
366	Communication equipment	175.7	175.8	192.8	195.5	197.1
3661	Telephone and telegraph apparatus	71.9	72.0	76.9	77.7	78.8
3662	Radio and TV communication equipment	103.8	103.8	115.9	117.8	118.3
367	Electronic components and accessories	240.8	238.3	267.5	273.8	272.6
3671-3	Electronic tubes	15.8	16.0	16.8	17.0	17.0
3674	Semiconductors and related devices	80.5	80.5	89.7	91.9	93.0
3679	Electronic components, nec.	98.4	96.7	110.8	113.3	111.4
369	Misc. electrical equipment and supplies	55.7	54.9	58.2	59.0	56.4
3694	Engine electrical equipment	27.1	26.5	27.0	27.3	25.9
TRANSPORTATION EQUIPMENT						
37	Motor vehicles and equipment	294.0	293.2	327.0	327.0	321.6
371	Motor vehicles and equipment	134.0	133.1	149.9	149.0	141.7
3711	Motor vehicles and car bodies	52.9	51.8	58.5	58.2	55.9
3713	Truck and bus bodies	5.0	5.1	5.9	6.3	6.2
3714	Motor vehicle parts and accessories	74.0	74.2	83.0	82.0	77.2
372	Aircraft and parts	91.1	92.8	109.8	111.4	113.4
3721	Aircraft	52.2	53.5	63.8	64.3	65.6
3724	Aircraft engines and engine parts	20.3	20.5	23.7	24.4	24.9
3728	Aircraft equipment, nec.	18.6	18.8	22.3	22.7	22.9
373	Ship and boat building and repairing	23.0	22.5	23.2	23.2	22.9
3731	Ship building and repairing	14.4	14.2	14.6	15.3	15.3
374	Railroad equipment	5.8	5.6	6.2	6.3	6.4
376	Guided missiles, space vehicles, parts	18.0	18.2	20.2	20.5	20.8
3761	Guided missiles and space vehicles	14.9	15.1	16.7	16.9	17.2
379	Miscellaneous transportation equipment	15.8	14.9	11.1	9.7	9.6
INSTRUMENTS AND RELATED PRODUCTS						
38	Engineering and scientific instruments	279.3	275.9	293.9	299.2	293.0
381	Engineering and scientific instruments	19.3	19.1	22.1	22.3	22.5
382	Measuring and controlling devices	93.4	92.1	97.9	99.6	99.2
3822	Environmental controls	24.5	24.0	23.1	23.6	23.1
3823	Process control instruments	16.7	16.0	16.9	16.8	16.9
3825	Instruments to measure electricity	37.9	38.1	42.1	43.2	42.9
383	Optical instruments and lenses	9.4	9.5	10.3	10.6	10.8
384	Medical instruments and supplies	74.5	73.3	79.3	80.6	76.8
3841	Surgical and medical instruments	33.1	33.0	36.7	37.2	34.2
3842	Surgical appliances and supplies	33.1	32.0	34.3	35.0	34.4
385	Ophthalmic goods	25.0	24.6	26.4	26.4	25.2
386	Photographic equipment and supplies	37.8	38.0	39.4	40.9	40.8
387	Watches, clocks, and watchcases	19.9	19.3	18.5	18.8	17.7
MISCELLANEOUS MANUFACTURING INDUSTRIES						
39	Jewelry, silverware, and plated ware	218.5	206.6	212.8	217.4	205.4
391	Jewelry, silverware, and plated ware	30.7	27.6	28.3	27.8	26.4
393	Musical instruments	12.3	11.5	11.3	11.0	10.5
394	Toys and sporting goods	66.1	65.1	62.8	65.5	62.1
394.2, 4	Dolls, games, toys, and children's vehicles	35.7	34.7	32.1	35.2	32.6
3949	Sporting and athletic goods, nec.	30.4	30.4	30.7	30.3	29.5
395	Pens, pencils, office and art supplies	20.7	20.3	22.6	22.8	22.7
396	Costume jewelry and notions	37.1	31.7	36.8	38.2	32.5
399	Miscellaneous manufactures	51.6	50.4	51.0	52.1	51.2
NONDURABLE GOODS						
FOOD AND KINDRED PRODUCTS						
20	Meat products	487.3	503.9	480.6	501.4	510.9
201	Meat products	108.2	108.9	111.8	117.5	118.4
2011	Meat packing plants	26.6	27.1	27.3	28.2	28.3
2013	Sausages and other prepared meats	20.8	21.0	21.2	21.5	21.5
2016	Poultry dressing plants	54.2	54.5	56.7	60.8	61.6
202	Dairy products	38.1	38.2	36.9	38.5	38.8
2026	Fluid milk	19.7	19.6	19.2	19.3	19.5
203	Preserved fruits and vegetables	97.7	111.7	93.1	99.9	109.2
2032	Canned specialties	8.9	8.4	8.7	8.5	8.5
2033	Canned fruits and vegetables	28.6	42.3	25.1	27.4	39.3
2037	Frozen fruits and vegetables	26.0	23.2	27.0	29.2	25.7
204	Grain mill products	28.6	28.5	28.5	28.8	28.8
205	Bakery products	62.9	63.0	62.4	62.7	61.9
2051	Bread, cake, and related products	42.6	42.7	42.4	42.5	41.9
2052	Cookies and crackers	20.3	20.3	20.0	20.2	20.0
206	Sugar and confectionery products	36.7	36.5	38.4	39.1	39.2
207	Fats and oils	5.3	5.3	5.2	5.2	5.1
209	Beverages	36.2	36.6	35.6	36.7	36.7
2082	Malt beverages	5.7	5.9	5.9	6.2	6.4
2086	Bottled and canned soft drinks	16.4	16.6	17.0	17.5	17.6
209	Misc. foods and kindred products	73.6	75.2	68.7	73.0	72.8
TOBACCO MANUFACTURES						
21	Cigarettes	22.5	22.0	22.1	21.6	21.1
211	Cigarettes	13.5	13.8	13.4	13.4	13.4

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	June 1978	July 1978	May 1979	June 1979	July 1979
22	TEXTILE MILL PRODUCTS	428.3	416.0	422.6	427.7	414.0
221	Weaving mills, cotton	63.0	61.9	65.1	65.5	65.0
222	Weaving mills, synthetics	49.6	49.4	51.6	51.9	50.9
223	Weaving and finishing mills, wool	8.1	7.7	8.3	8.2	7.8
224	Narrow fabric mills	15.6	14.8	15.6	15.8	13.8
225	Knitting mills	157.5	152.7	148.2	151.7	146.1
2251	Women's hosiery, except socks	21.5	20.9	23.0	23.6	23.0
2252	Hosiery, nec	26.1	25.6	25.3	25.8	25.1
2253	Knit outerwear mills	59.8	57.7	52.4	53.9	51.2
2254	Knit underwear mills	25.3	24.8	24.8	25.3	24.0
2257	Circular knit fabric mills	14.1	13.3	13.0	13.3	13.2
226	Textile finishing, except wool	24.0	23.1	23.5	23.3	22.6
2261	Finishing plants, cotton	10.0	10.0	10.3	10.2	10.1
2262	Finishing plants, synthetic	6.8	6.4	6.2	6.4	6.1
227	Floor covering mills	24.9	24.5	24.6	25.1	25.0
228	Yarn and thread mills	64.6	61.7	64.7	65.3	62.2
2281	Yarn mills, except wool	40.9	39.7	41.2	41.5	39.9
2282	Throwing and winding mills	12.5	12.0	12.6	12.8	12.0
229	Miscellaneous textile goods	21.0	20.2	21.0	20.9	20.6
23	APPAREL AND OTHER TEXTILE PRODUCTS	1,104.0	1,035.7	1,076.5	1,078.9	1,032.5
231	Men's and boys' suits and coats	72.6	68.9	68.8	68.7	66.3
232	Men's and boys' furnishings	320.0	296.3	309.8	311.9	300.4
2321	Men's and boys' shirts and nightwear	95.9	90.7	92.3	94.0	88.4
2327	Men's and boys' separate trousers	68.9	64.7	65.8	66.5	64.3
2328	Men's and boys' work clothing	83.8	73.1	84.7	84.5	83.3
233	Women's and misses' outerwear	383.0	360.9	381.3	380.7	361.1
2331	Women's and misses' blouses and waists	53.7	50.7	54.8	55.0	51.8
2335	Women's and misses' dresses	148.0	139.9	149.4	148.2	142.3
2337	Women's and misses' suits and coats	56.7	52.3	55.5	57.9	53.3
2339	Women's and misses' outerwear, nec	124.6	118.0	121.6	119.6	113.7
234	Women's and children's undergarments	81.5	77.2	78.1	78.3	73.9
2341	Women's and children's underwear	65.0	61.3	62.2	62.4	59.0
2342	Brassieres and allied garments	16.5	15.9	15.9	15.9	14.9
236	Children's outerwear	62.5	59.4	57.9	58.9	56.9
2361	Children's dresses and blouses	24.5	24.0	23.1	23.3	22.9
238	Misc. apparel and accessories	49.0	44.5	45.5	45.6	42.5
239	Misc. fabricated textile products	121.8	115.3	121.7	121.5	118.1
2391	Curtains and draperies	25.0	22.2	23.3	24.2	22.7
2392	House furnishings, nec	32.4	31.5	32.2	32.8	32.3
2396	Automotive and apparel trimmings	18.3	16.3	19.5	18.0	17.3
26	PAPER AND ALLIED PRODUCTS	162.3	159.4	163.2	167.3	164.8
261, 2,6	Paper and pulp mills	26.0	26.5	25.7	27.0	27.3
262	Paper mills, except building paper	23.2	23.6	23.0	24.0	24.3
263	Paperboard mills	6.1	6.2	6.3	6.5	6.6
264	Misc. converted paper products	78.4	76.7	79.0	80.4	79.0
265	Paperboard containers and boxes	51.8	50.0	52.2	53.4	51.9
27	PRINTING AND PUBLISHING	454.7	453.9	478.9	482.6	485.4
271	Newspapers	143.0	143.3	148.8	151.6	153.3
272	Periodicals	47.2	47.8	49.4	49.9	50.0
273	Books	53.8	53.4	55.7	55.0	55.0
274	Miscellaneous publishing	25.1	24.2	25.5	25.8	26.1
275	Commercial printing	118.4	116.9	128.6	127.3	127.3
2751	Commercial printing, letterpress	53.9	53.0	57.4	57.3	57.1
2752	Commercial printing, lithographic	59.5	59.1	65.7	64.7	65.1
276	Manifold business forms	13.8	13.8	15.3	15.6	15.6
278	Blankbooks and bookbinding	31.5	32.2	33.6	34.8	34.7
279	Printing trade services	8.3	8.4	8.8	9.0	9.2
28	CHEMICALS AND ALLIED PRODUCTS	260.5	262.2	269.6	275.6	275.7
281	Industrial inorganic chemicals	22.4	23.0	24.0	25.0	25.4
2819	Industrial inorganic chemicals, nec	15.2	15.7	16.1	16.6	16.8
282	Plastics materials and synthetics	44.9	45.2	46.5	47.5	47.7
2821	Plastics materials and resins	10.3	10.4	10.8	11.4	11.5
2824	Organic fibers, noncellulosic	26.1	26.3	26.6	27.1	27.0
283	Drugs	75.0	75.2	78.1	79.8	79.4
2834	Pharmaceutical preparations	64.0	64.1	66.6	68.0	67.4
284	Soap, cleaners, and toilet goods	54.3	54.8	54.8	55.8	55.6
2841	Soap and other detergents	9.1	9.2	9.0	9.3	9.3
2844	Toilet preparations	32.3	32.7	32.3	32.8	32.9
285	Paints and allied products	12.2	12.2	12.7	13.0	13.2
286	Industrial organic chemicals	24.2	24.4	24.4	24.8	24.7
2861,9	Gum, wood, and industrial organic chemicals, nec	19.6	19.8	19.6	20.0	19.9
287	Agricultural chemicals	9.1	8.9	10.0	10.2	10.1
289	Miscellaneous chemical products	18.4	18.5	19.1	19.5	19.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	June 1978	July 1978	May 1979	June 1979	July 1979
29	PETROLEUM AND COAL PRODUCTS	25.4	25.5	25.9	27.2	27.6
291	Petroleum refining	20.6	20.7	20.9	22.1	22.3
30	RUBBER AND MISC. PLASTICS PRODUCTS	262.2	254.7	273.1	276.4	271.4
301	Tires and inner tubes	12.2	12.0	12.6	12.0	12.0
302	Rubber and plastics footwear	14.0	12.3	13.5	13.8	12.6
303,4	Reclaimed rubber, and rubber and plastics hose and belting	6.6	6.3	5.9	6.3	6.2
306	Fabricated rubber products, nec	40.1	38.8	41.7	41.6	41.0
307	Miscellaneous plastics products	189.3	185.3	199.4	202.7	199.6
31	LEATHER AND LEATHER PRODUCTS	160.9	147.5	152.1	154.5	135.4
311	Leather tanning and finishing	3.3	3.1	3.1	3.1	2.9
314	Footwear, except rubber	109.8	100.7	101.9	103.1	88.2
3143	Men's footwear, except athletic	42.4	37.9	38.4	38.8	33.6
3144	Women's footwear, except athletic	44.7	42.0	42.7	43.7	35.8
316	Luggage	9.4	8.9	9.6	9.7	9.6
317	Handbags and personal leather goods	23.4	21.5	23.6	24.3	22.3
-	TRANSPORTATION AND PUBLIC UTILITIES	1,137	1,124	1,216	1,242	1,227
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	54.6	33.3	60.9	57.2	36.3
411	Local and suburban transportation	9.1	9.0	10.6	10.5	10.7
412	Taxicabs	6.9	6.9	7.4	7.3	7.1
413	Intercity highway transportation	4.5	4.7	4.5	4.6	4.7
415	School buses	31.7	10.6	35.7	32.2	11.7
42	TRUCKING AND WAREHOUSING	142.6	142.8	152.3	156.7	157.3
421,3	Trucking and trucking terminals	127.4	127.5	136.3	140.6	141.0
422	Public warehousing	15.2	15.3	16.0	16.1	16.3
44	WATER TRANSPORTATION	18.5	18.3	19.0	19.8	20.4
45	TRANSPORTATION BY AIR	124.8	126.7	126.4	136.5	136.8
451,2	Air transportation	118.0	119.9	118.9	128.8	129.1
46	PIPE LINES, EXCEPT NATURAL GAS	2.0	2.0	2.1	2.3	2.2
47	TRANSPORTATION SERVICES	77.6	76.9	83.0	85.9	86.5
48	COMMUNICATION	563.0	569.7	611.4	618.4	619.9
481	Telephone communication	495.1	501.1	535.8	542.0	543.0
483	Radio and television broadcasting	53.1	53.3	58.9	59.7	59.8
49	ELECTRIC, GAS, AND SANITARY SERVICES	133.9	135.0	139.2	142.9	144.9
491	Electric services	59.3	59.3	62.6	64.1	64.8
492	Gas production and distribution	33.8	34.5	34.8	35.8	36.4
493	Combination utility services	31.8	32.1	32.2	33.2	33.7
495	Sanitary services	4.4	4.4	4.6	4.7	4.8
-	WHOLESALE AND RETAIL TRADE	8,251	8,217	8,635	8,658	8,603
50,51	WHOLESALE TRADE	1,233	1,226	1,299	1,313	1,310
50	WHOLESALE TRADE-DURABLE GOODS	668	670	717	726	726
501	Motor vehicles and automotive equipment	87.9	89.0	94.4	94.9	94.5
502	Furniture and home furnishings	35.2	35.4	38.0	38.3	37.9
503	Lumber and construction materials	28.8	28.9	32.1	32.2	32.2
504	Sporting goods, toys, and hobby goods	23.4	22.9	21.5	22.3	22.1
505	Metals and minerals, except petroleum	25.5	25.6	27.7	28.0	28.1
506	Electrical goods	106.1	106.3	115.8	116.7	116.1
507	Hardware, plumbing, and heating equipment	61.1	61.7	66.4	67.2	67.9
508	Machinery, equipment, and supplies	253.1	254.7	271.8	276.7	279.2
509	Miscellaneous durable goods	48.6	47.0	49.0	49.6	48.0
51	WHOLESALE TRADE-NONDURABLE GOODS	565	556	582	587	584
511	Paper and paper products	38.9	38.8	41.1	41.5	41.4
512	Drugs, proprietaries, and sundries	59.2	58.3	63.8	63.8	63.6
513	Apparel, piece goods, and notions	78.7	76.9	80.5	81.1	81.2
514	Groceries and related products	154.5	148.9	142.9	147.4	146.1
516	Chemicals and allied products	28.3	29.0	30.0	30.5	30.4
517	Petroleum and petroleum products	47.1	47.7	48.2	49.3	49.5
518	Beer, wine, and distilled beverages	19.2	19.3	20.7	20.7	21.0
519	Miscellaneous nondurable goods	107.0	107.1	116.9	117.4	117.6

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

(In thousands)

1972 SIC Code	Industry	June 1978	July 1978	May 1979	June 1979	July 1979
52-59	RETAIL TRADE	7, 018	6, 991	7, 336	7, 345	7, 293
52	BUILDING MATERIALS AND GARDEN SUPPLIES	146. 5	146. 1	156. 6	154. 7	153. 4
521	Lumber and other building materials	58. 8	59. 6	61. 8	62. 5	62. 8
525	Hardware stores	48. 9	48. 8	51. 9	52. 5	52. 7
53	GENERAL MERCHANDISE STORES	1, 517. 4	1, 510. 7	1, 479. 9	1, 473. 0	1, 462. 2
531	Department stores	1, 210. 8	1, 207. 1	1, 172. 4	1, 160. 0	1, 149. 7
533	Variety stores	219. 0	216. 9	217. 1	216. 3	214. 8
539	Misc. general merchandise stores	87. 6	86. 7	90. 4	96. 7	97. 7
54	FOOD STORES	891. 7	886. 8	935. 0	937. 4	937. 6
541	Grocery stores	741. 4	740. 4	785. 1	789. 0	793. 9
542	Meat markets and freezer provisioners	14. 3	14. 3	16. 7	17. 3	17. 3
546	Retail bakeries	73. 5	72. 2	74. 5	74. 8	72. 7
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	299. 7	303. 1	313. 9	318. 2	312. 8
551,2	New and used car dealers	120. 3	121. 1	127. 6	127. 2	125. 5
553	Auto and home supply stores	47. 0	46. 6	47. 1	48. 2	47. 5
554	Gasoline service stations	116. 9	119. 6	123. 1	125. 2	122. 7
56	APPAREL AND ACCESSORY STORES	602. 5	596. 1	637. 3	635. 6	625. 1
561	Men's and boys' clothing and furnishings	57. 9	57. 9	59. 6	60. 5	60. 0
562	Women's ready-to-wear stores	295. 5	290. 4	314. 1	310. 3	303. 0
565	Family clothing stores	119. 0	118. 4	126. 2	127. 4	127. 1
566	Shoe stores	66. 1	65. 2	74. 0	72. 8	71. 7
57	FURNITURE AND HOME FURNISHING STORES	184. 2	183. 1	195. 6	197. 4	197. 3
571	Furniture and home furnishings	124. 6	124. 8	128. 7	128. 5	127. 9
572	Household appliance stores	23. 3	23. 0	23. 3	24. 6	24. 6
573	Radio, television, and music stores	36. 3	35. 3	43. 6	44. 3	44. 8
58	EATING AND DRINKING PLACES	2, 454. 7	2, 449. 1	2, 630. 6	2, 654. 0	2, 636. 5
59	MISCELLANEOUS RETAIL	921. 4	915. 5	986. 9	974. 4	967. 9
591	Drug stores and proprietary stores	281. 7	283. 3	303. 7	308. 6	309. 9
592	Liquor stores	25. 4	25. 9	34. 1	33. 4	33. 5
594	Miscellaneous shopping goods stores	312. 3	310. 8	334. 6	334. 0	333. 6
596	Nonstore retailers	152. 0	150. 8	142. 8	140. 5	139. 0
598	Fuel and ice dealers	21. 2	21. 0	22. 4	21. 8	21. 6
599	Retail stores, nec	109. 3	104. 2	128. 7	115. 3	110. 6
-	FINANCE, INSURANCE, AND REAL ESTATE	2, 719	2, 743	2, 856	2, 897	2, 915
60	BANKING	987. 2	993. 4	1, 033. 1	1, 047. 3	1, 053. 8
602	Commercial and stock savings banks	908. 8	914. 3	950. 9	964. 0	969. 7
61	CREDIT AGENCIES OTHER THAN BANKS	332. 0	335. 0	355. 7	361. 2	363. 5
612	Savings and loan associations	158. 8	160. 6	170. 6	173. 7	174. 9
614	Personal credit institutions	112. 7	113. 2	121. 5	123. 2	123. 9
62	SECURITY, COMMODITY BROKERS, AND SERVICES	72. 5	73. 2	78. 1	80. 2	81. 3
621	Security brokers and dealers	57. 4	57. 7	61. 9	63. 4	64. 2
63	INSURANCE CARRIERS	693. 8	700. 7	726. 4	733. 5	736. 5
631	Life insurance	270. 2	272. 4	276. 2	279. 0	281. 2
632	Medical service and health insurance	98. 4	98. 5	99. 7	99. 9	99. 8
633	Fire, marine, and casualty insurance	275. 4	279. 1	299. 1	302. 5	303. 7
64	INSURANCE AGENTS, BROKERS, AND SERVICE	244. 7	247. 4	260. 3	263. 2	263. 9
65	REAL ESTATE	321. 4	325. 1	330. 6	338. 2	342. 8
651	Real estate operators and lessors	129. 5	132. 1	130. 2	134. 0	135. 8
653	Real estate agents and managers	143. 3	144. 5	153. 2	156. 0	158. 3
655	Subdividers and developers	32. 1	31. 9	29. 7	30. 7	31. 1
66	COMBINED REAL ESTATE, INSURANCE, ETC.	16. 8	17. 0	16. 9	17. 3	17. 0
67	HOLDING AND OTHER INVESTMENT OFFICES.	50. 3	51. 0	54. 4	55. 6	56. 2
-	SERVICES	9, 401	9, 402	9, 895	9, 977	9, 979
70	HOTELS AND OTHER LODGING PLACES	551. 4	580. 9	552. 0	605. 0	636. 2
701	Hotels, motels, and tourist courts	524. 7	542. 1	532. 7	578. 6	593. 3

**ESTABLISHMENT DATA
WOMEN EMPLOYEES**

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

[In thousands]

1972 SIC Code	Industry	June 1978	July 1978	May 1979	June 1979	July 1979
72	PERSONAL SERVICES	604.4	595.9	610.9	605.1	597.6
721	Laundry, cleaning, and garment services	225.7	223.3	224.6	224.0	220.5
723	Beauty shops	246.9	244.0	250.2	247.6	247.4
726	Funeral service and crematories	17.9	17.9	18.8	18.9	19.1
73	BUSINESS SERVICES	1,091.3	1,104.7	1,196.2	1,213.0	1,209.9
731	Advertising	62.2	65.0	67.6	68.5	69.0
732	Credit reporting and collection	58.5	58.5	57.4	56.7	56.9
733	Mailing, reproduction, stenographic	47.2	47.9	51.7	50.6	50.5
734	Services to buildings	159.6	160.3	170.2	175.7	174.2
736	Personnel supply services	251.1	256.1	282.7	286.5	281.9
737	Computer and data processing services	100.8	103.4	119.6	120.2	122.0
75	AUTO REPAIR, SERVICES, AND GARAGES	89.5	88.8	94.8	95.0	96.4
753	Automotive repair shops	41.5	40.8	43.2	43.3	45.2
76	MISCELLANEOUS REPAIR SERVICES	49.2	48.5	56.4	58.0	58.5
78	MOTION PICTURES	80.6	84.1	81.5	83.6	84.8
781	Motion picture production and services	20.6	21.4	21.0	20.9	21.3
783	Motion picture theaters	54.1	56.9	54.7	56.8	57.5
79	AMUSEMENT AND RECREATION SERVICES	308.3	314.6	299.1	327.2	333.1
80	HEALTH SERVICES	3,915.7	3,925.8	4,062.3	4,118.4	4,123.2
801	Offices of physicians	535.3	537.4	556.5	563.0	563.0
802	Offices of dentists	257.2	256.3	270.7	274.1	269.7
805	Nursing and personal care facilities	820.0	824.3	860.5	877.6	880.4
806	Hospitals	2,059.1	2,064.9	2,111.2	2,137.9	2,146.7
81	LEGAL SERVICES	308.9	310.6	323.7	330.6	330.5
82	EDUCATIONAL SERVICES	494.4	437.1	550.9	485.8	442.2
821	Elementary and secondary schools	148.0	120.9	146.5	139.8	123.8
822	Colleges and universities	287.4	258.9	338.7	281.5	255.9
83	SOCIAL SERVICES	706.8	728.9	782.7	776.7	789.7
89	MISCELLANEOUS SERVICES	260.2	260.3	281.0	285.8	286.6
891	Engineering and architectural services	92.2	93.1	99.5	102.9	104.3
893	Accounting, auditing, and bookkeeping	115.9	114.3	125.3	126.0	125.3
-	GOVERNMENT	7,292	6,534	7,503	7,354	6,724
-	FEDERAL GOVERNMENT	888	897	871	890	895
-	STATE AND LOCAL GOVERNMENT	6,404	5,637	6,632	6,464	5,829
-	State government	1,478.9	1,417.0	1,539.0	1,464.6	1,418.6
-	Hospitals	313.7	312.7	331.0	330.6	327.2
-	State education	550.5	485.8	637.3	557.8	509.6
-	General administration including executive, legislative, and judicial functions	423.6	421.5	385.3	384.8	385.5
-	Local government	4,924.8	4,220.4	5,092.6	4,999.3	4,410.7
-	Transportation and public utilities	75.4	76.8	88.0	88.6	88.5
-	Hospitals	395.3	397.8	408.6	415.2	418.7
-	Local education	3,300.1	2,536.9	3,509.7	3,351.0	2,679.4
-	General administration including executive, legislative, and judicial functions	959.8	1,004.2	894.0	935.9	1,000.3

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these

revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA SEASONALLY ADJUSTED EMPLOYMENT

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

(In thousands)

Industry division and group	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
TOTAL	87,032	87,424	87,840	88,133	88,433	88,700	89,039	89,036	89,398	89,626	89,713	89,718	89,853
GOODS-PRODUCING	25,767	25,941	26,120	26,272	26,382	26,448	26,627	26,565	26,651	26,674	26,723	26,595	26,615
MINING	904	910	919	922	927	937	940	940	944	949	956	965	974
CONSTRUCTION	4,352	4,398	4,429	4,469	4,497	4,486	4,614	4,559	4,648	4,662	4,688	4,668	4,655
MANUFACTURING	20,511	20,633	20,772	20,881	20,958	21,025	21,073	21,066	21,059	21,063	21,079	20,962	20,986
DURABLE GOODS	12,308	12,419	12,510	12,583	12,640	12,715	12,751	12,752	12,739	12,760	12,786	12,721	12,753
Lumber and wood products	748	752	760	765	768	768	769	761	762	757	753	751	760
Furniture and fixtures	488	490	492	494	497	496	493	490	487	485	488	486	485
Stone, clay, and glass products	698	701	704	710	709	712	718	714	715	715	711	709	711
Primary metal industries	1,222	1,229	1,242	1,247	1,250	1,256	1,259	1,260	1,254	1,257	1,256	1,242	1,242
Fabricated metal products	1,678	1,692	1,706	1,718	1,725	1,733	1,732	1,732	1,730	1,737	1,730	1,716	1,718
Machinery, except electrical	2,344	2,369	2,382	2,404	2,419	2,437	2,450	2,465	2,471	2,484	2,500	2,495	2,499
Electric and electronic equipment	2,011	2,025	2,037	2,050	2,065	2,079	2,093	2,101	2,106	2,124	2,131	2,094	2,105
Transportation equipment	2,004	2,037	2,057	2,063	2,069	2,094	2,094	2,084	2,077	2,057	2,073	2,082	2,085
Instruments and related products	661	666	670	674	679	682	685	689	688	693	694	695	697
Miscellaneous manufacturing ind.	454	458	460	458	459	458	458	455	449	451	450	451	451
NONDURABLE GOODS	8,203	8,214	8,262	8,298	8,318	8,310	8,322	8,314	8,320	8,303	8,293	8,241	8,233
Food and kindred products	1,701	1,708	1,725	1,736	1,735	1,729	1,736	1,728	1,725	1,720	1,707	1,701	1,707
Tobacco manufactures	68	69	69	69	68	68	69	69	70	69	68	62	63
Textile mill products	898	897	897	899	900	899	897	892	893	892	892	885	885
Apparel and other textile products	1,332	1,330	1,330	1,333	1,339	1,327	1,324	1,325	1,324	1,312	1,324	1,300	1,296
Paper and allied products	698	692	700	703	706	711	716	717	714	715	718	717	717
Printing and publishing	1,191	1,199	1,212	1,218	1,225	1,229	1,232	1,234	1,236	1,242	1,250	1,247	1,246
Chemicals and allied products	1,098	1,098	1,102	1,106	1,109	1,108	1,108	1,111	1,114	1,119	1,116	1,110	1,110
Petroleum and coal products	209	210	210	211	211	212	213	213	213	212	212	214	214
Rubber and misc. plastic products	750	755	763	770	774	779	780	781	784	775	777	763	753
Leather and leather products	258	256	254	253	251	248	247	244	247	247	229	242	242
SERVICE-PRODUCING	61,265	61,483	61,720	61,861	62,051	62,252	62,412	62,471	62,747	62,952	62,990	63,123	63,238
TRANSPORTATION AND PUBLIC UTILITIES	4,941	5,014	5,038	5,054	5,071	5,094	5,116	5,024	5,130	5,190	5,169	5,190	5,169
WHOLESALE AND RETAIL TRADE ..	19,653	19,744	19,829	19,858	19,965	20,016	20,054	20,088	20,129	20,116	20,122	20,112	20,164
WHOLESALE TRADE	4,999	5,025	5,054	5,077	5,102	5,118	5,134	5,138	5,156	5,180	5,182	5,185	5,198
RETAIL TRADE	14,654	14,719	14,775	14,781	14,863	14,898	14,920	14,950	14,973	14,936	14,940	14,927	14,966
FINANCE, INSURANCE, AND REAL ESTATE	4,774	4,793	4,827	4,847	4,868	4,884	4,899	4,915	4,936	4,958	4,972	5,005	5,018
SERVICES	16,423	16,464	16,554	16,630	16,670	16,763	16,833	16,880	16,954	17,051	17,092	17,147	17,245
GOVERNMENT	15,474	15,468	15,472	15,472	15,477	15,495	15,510	15,564	15,598	15,637	15,635	15,669	15,642
FEDERAL	2,755	2,760	2,757	2,734	2,758	2,757	2,757	2,758	2,770	2,788	2,785	2,782	2,781
STATE AND LOCAL	12,719	12,708	12,715	12,738	12,719	12,738	12,753	12,806	12,828	12,849	12,850	12,887	12,861

p=preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT**

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

[In thousands]

Industry division and group	1978						1979						
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
TOTAL	35,328	35,435	35,577	35,748	35,951	36,074	36,271	36,385	36,517	36,669	36,789	36,916	37,102
GOODS-PRODUCING	6,649	6,667	6,684	6,735	6,781	6,827	6,865	6,877	6,899	6,920	6,939	6,960	6,971
MINING	78	79	80	81	82	83	84	85	87	87	89	91	92
CONSTRUCTION	338	339	340	342	343	345	350	353	357	362	367	374	379
MANUFACTURING	6,233	6,249	6,264	6,312	6,356	6,399	6,431	6,439	6,455	6,471	6,483	6,495	6,500
DURABLE GOODS	2,899	2,907	2,927	2,960	2,985	3,012	3,029	3,053	3,069	3,082	3,087	3,102	3,109
Lumber and wood products	107	107	108	109	110	112	112	113	114	114	114	113	113
Furnitures and fixtures	143	143	143	144	145	146	146	146	145	145	144	145	146
Stone, clay, and glass products	129	129	129	130	130	132	131	132	134	134	134	135	134
Primary metal industries	122	123	125	126	127	129	130	131	131	134	134	138	137
Fabricated metal products	343	343	345	349	352	355	357	360	361	361	362	363	363
Machinery, except electrical	432	434	438	444	446	453	456	460	464	469	473	473	479
Electric and electronic equipment	838	839	842	849	855	863	870	877	884	887	892	902	907
Transportation equipment	293	294	300	309	315	318	320	326	326	326	326	323	321
Instruments and related products	278	280	281	282	286	286	289	291	293	294	295	296	296
Miscellaneous manufacturing ind.	214	215	216	218	219	218	218	217	217	218	213	214	213
NONDURABLE GOODS	3,334	3,342	3,337	3,352	3,371	3,387	3,402	3,386	3,386	3,389	3,396	3,393	3,391
Food and kindred products	495	488	486	493	503	509	512	507	509	508	511	511	502
Tobacco manufactures	26	24	25	26	25	26	25	25	25	26	26	25	24
Textile mill products	424	424	424	424	424	425	425	424	423	422	422	424	422
Apparel and other textile products	1,077	1,082	1,083	1,081	1,080	1,081	1,087	1,075	1,071	1,072	1,072	1,062	1,073
Paper and allied products	160	160	159	159	160	161	163	163	165	165	164	164	165
Printing and publishing	455	459	458	462	467	470	474	476	477	479	479	482	487
Chemicals and allied products	260	260	260	262	264	266	268	268	268	269	271	273	274
Petroleum and coal products	25	25	25	25	25	25	25	25	25	26	26	27	27
Rubber and misc. plastics products	262	264	260	264	269	271	271	273	273	273	275	275	279
Leather and leather products	150	156	157	156	154	153	152	150	150	149	150	150	138
SERVICE-PRODUCING	28,679	28,768	28,893	29,013	29,170	29,247	29,406	29,508	29,618	29,749	29,850	29,956	30,131
TRANSPORTATION AND PUBLIC UTILITIES	1,132	1,142	1,149	1,163	1,170	1,179	1,195	1,205	1,209	1,202	1,214	1,233	1,236
WHOLESALE AND RETAIL TRADE ..	8,294	8,332	8,357	8,400	8,449	8,423	8,526	8,552	8,595	8,627	8,673	8,670	8,684
WHOLESALE TRADE	1,232	1,238	1,242	1,262	1,271	1,279	1,286	1,290	1,297	1,297	1,307	1,310	1,317
RETAIL TRADE	7,062	7,094	7,115	7,138	7,178	7,144	7,240	7,262	7,298	7,330	7,366	7,360	7,367
FINANCE, INSURANCE, AND REAL ESTATE	2,721	2,738	2,749	2,767	2,787	2,802	2,817	2,826	2,837	2,850	2,862	2,880	2,892
SERVICES	9,365	9,436	9,469	9,512	9,581	9,640	9,672	9,710	9,754	9,798	9,846	9,898	9,939
GOVERNMENT	7,167	7,120	7,169	7,171	7,183	7,203	7,196	7,215	7,223	7,272	7,255	7,275	7,380
FEDERAL	876	878	877	877	874	866	863	862	862	861	866	875	874
STATE AND LOCAL	6,291	6,242	6,292	6,294	6,309	6,337	6,333	6,353	6,361	6,411	6,389	6,400	6,506

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

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA

SEASONALLY ADJUSTED EMPLOYMENT

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

[In thousands]

Industry division and group	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
TOTAL PRIVATE	58,570	58,876	59,248	59,470	59,688	59,883	60,161	60,051	60,326	60,495	60,544	60,474	60,590
GOODS-PRODUCING	18,872	19,016	19,163	19,289	19,372	19,409	19,555	19,475	19,542	19,537	19,560	19,419	19,437
MINING	683	688	695	697	700	707	707	708	708	709	713	723	729
CONSTRUCTION	3,470	3,512	3,535	3,571	3,587	3,574	3,695	3,633	3,722	3,732	3,757	3,731	3,710
MANUFACTURING	14,719	14,816	14,933	15,021	15,085	15,128	15,153	15,134	15,112	15,096	15,090	14,965	14,998
DURABLE GOODS	8,819	8,908	8,983	9,042	9,085	9,138	9,158	9,146	9,119	9,123	9,124	9,056	9,090
Lumber and wood products	639	643	649	654	656	655	657	649	649	646	643	640	647
Furniture and fixtures	401	403	404	406	408	406	404	401	397	395	398	395	394
Stone, clay, and glass products	553	555	559	563	562	564	569	563	564	565	560	557	558
Primary metal industries	960	960	980	985	987	992	995	995	987	991	988	973	976
Fabricated metal products	1,273	1,285	1,296	1,306	1,310	1,317	1,315	1,314	1,310	1,316	1,309	1,293	1,296
Machinery, except electrical	1,541	1,559	1,567	1,585	1,595	1,610	1,615	1,625	1,628	1,632	1,641	1,631	1,641
Electric and electronic equipment	1,317	1,326	1,338	1,346	1,360	1,369	1,378	1,384	1,384	1,393	1,395	1,363	1,367
Transportation equipment	1,384	1,411	1,428	1,434	1,439	1,456	1,455	1,446	1,438	1,417	1,426	1,438	1,445
Instruments and related products	406	409	412	414	418	421	422	423	421	424	422	422	422
Miscellaneous manufacturing ind.	345	349	350	349	350	348	348	346	341	344	342	344	344
NONDURABLE GOODS	5,900	5,903	5,950	5,979	6,000	5,990	5,995	5,988	5,993	5,973	5,966	5,909	5,908
Food and kindred products	1,156	1,161	1,176	1,189	1,191	1,184	1,191	1,187	1,184	1,181	1,170	1,160	1,165
Tobacco manufactures	55	55	55	55	55	54	55	56	56	55	54	49	50
Textile mill products	781	781	783	783	785	783	781	777	778	777	778	770	771
Apparel and other textile products	1,146	1,143	1,142	1,142	1,149	1,137	1,131	1,131	1,133	1,122	1,130	1,108	1,104
Paper and allied products	524	520	526	530	532	537	542	543	541	541	547	545	547
Printing and publishing	664	672	681	685	690	694	696	696	700	701	707	705	703
Chemicals and allied products	629	629	632	635	637	636	635	636	636	640	639	634	635
Petroleum and coal products	136	137	138	138	138	139	139	140	139	139	138	139	140
Rubber and misc. plastics products	587	590	599	606	609	614	614	614	616	607	609	594	587
Leather and leather products	222	220	218	216	214	212	211	208	210	210	194	205	206
SERVICE-PRODUCING	39,698	39,860	40,085	40,181	40,316	40,474	40,606	40,576	40,784	40,958	40,984	41,055	41,153
TRANSPORTATION AND PUBLIC UTILITIES	4,143	4,206	4,228	4,235	4,248	4,268	4,283	4,197	4,293	4,351	4,333	4,345	4,334
WHOLESALE AND RETAIL TRADE	17,322	17,392	17,468	17,487	17,578	17,618	17,648	17,662	17,691	17,689	17,681	17,676	17,704
WHOLESALE TRADE	4,117	4,142	4,157	4,175	4,194	4,206	4,222	4,221	4,237	4,257	4,255	4,256	4,265
RETAIL TRADE	13,205	13,250	13,311	13,312	13,384	13,412	13,426	13,441	13,454	13,432	13,426	13,420	13,439
FINANCE, INSURANCE, AND REAL ESTATE	3,634	3,647	3,676	3,690	3,705	3,716	3,729	3,743	3,756	3,777	3,788	3,808	3,809
SERVICES	14,599	14,615	14,713	14,769	14,785	14,872	14,946	14,974	15,044	15,141	15,182	15,226	15,306

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

p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED EMPLOYMENT

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

Year and month	Over 1-month span	Over 3-month span	Over 6-month span	Over 12-month span
1976				
January.....	77.0	85.8	86.9	84.0
February.....	70.3	84.3	85.8	83.7
March.....	69.2	82.3	79.4	85.2
April.....	70.6	73.8	72.4	77.6
May.....	59.6	64.8	67.7	82.6
June.....	51.7	62.5	71.5	80.2
July.....	59.0	56.4	60.8	78.2
August.....	54.4	68.3	66.9	77.3
September.....	68.9	55.8	68.6	78.8
October.....	47.4	66.9	73.8	79.4
November.....	65.1	62.2	77.9	80.8
December.....	66.0	78.8	78.2	82.6
1977				
January.....	73.0	80.2	86.3	80.5
February.....	67.2	84.3	84.6	81.4
March.....	72.4	82.6	84.0	82.8
April.....	71.5	81.7	82.3	84.6
May.....	70.3	76.5	79.1	85.2
June.....	65.1	72.7	77.6	86.6
July.....	70.3	70.3	75.3	84.9
August.....	57.8	70.9	76.7	83.1
September.....	67.2	67.7	79.7	83.1
October.....	64.2	76.2	80.5	82.8
November.....	73.3	79.7	84.0	81.1
December.....	75.3	79.4	82.3	82.0
1978				
January.....	68.3	80.2	83.1	81.4
February.....	69.2	75.6	79.1	83.1
March.....	69.5	77.3	77.6	81.1
April.....	68.0	69.8	73.5	82.0
May.....	57.8	67.2	72.7	81.7
June.....	66.6	66.6	71.2	82.3
July.....	64.5	69.5	73.0	81.4
August.....	60.5	67.2	77.3	78.2
September.....	62.5	71.2	79.7	77.9
October.....	73.0	78.2	82.3	73.5
November.....	75.9	81.1	82.3	76.2
December.....	74.4	82.3	80.5	71.8
1979				
January.....	70.3	76.5	74.1	71.8
February.....	65.1	72.1	67.4	69.5p
March.....	60.5	57.8	61.9	67.7p
April.....	44.8	55.2	58.1	
May.....	54.7	51.5	50.9p	
June.....	57.0	58.4	50.0p	
July.....	61.6	55.2p		
August.....	48.3p	54.7p		
September.....	55.5p			
October.....				
November.....				
December.....				

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

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
1 ALABAMA	1,361.6	1,358.2	1,351.5	16.0	15.9	16.0	84.2	81.8	81.0	369.4	362.7	361.7
2 Birmingham	356.2	359.3	356.7	9.0	9.0	9.1	25.9	23.5	23.6	70.1	69.6	68.6
3 Huntsville	118.7	121.6	120.2	(1)	(1)	(1)	4.7	4.6	4.7	34.9	35.9	35.1
4 Mobile	148.1	146.8	145.3	(1)	(1)	(1)	12.1	12.5	12.1	31.0	28.8	28.7
5 Montgomery	104.4	108.2	107.7	(1)	(1)	(1)	6.9	8.0	8.1	15.8	16.3	16.3
6 Tuscaloosa	48.5	48.2	48.6	1.1	1.3	1.4	3.3	3.3	3.2	9.1	9.0	9.1
7 ALASKA	179.3	170.7	174.8	5.8	5.5	5.3	15.0	11.8	12.7	17.7	16.5	18.1
8 ARIZONA	872.7	932.5	932.7	19.4	21.8	22.0	71.6	79.5	79.2	127.2	140.0	140.8
9 Phoenix	542.7	580.7	581.0	.2	.2	.2	45.2	51.4	51.0	92.9	103.0	103.2
10 Tucson	157.4	166.8	167.0	5.9	7.0	7.1	12.5	13.9	14.1	16.0	18.7	18.8
11 ARKANSAS	732.0	744.4	743.8	4.9	5.4	5.4	39.9	41.9	41.7	219.2	216.9	214.3
12 Fayetteville-Springdale	60.9	62.2	62.8	(1)	(1)	(1)	3.3	3.5	3.5	18.4	19.0	19.0
13 Fort Smith	67.1	66.7	65.6	.8	.8	.8	3.1	3.5	3.4	24.8	24.5	23.5
14 Little Rock-North Little Rock	173.7	178.9	178.4	(1)	(1)	(1)	9.6	10.2	10.4	31.6	31.3	30.9
15 Pine Bluff	30.5	30.5	30.4	(1)	(1)	(1)	2.5	2.1	2.1	6.3	6.3	6.3
16 CALIFORNIA	9,295.7	9,631.4	9,679.1	37.7	39.4	39.5	442.0	449.6	457.2	1,931.6	1,973.6	2,017.7
17 Anaheim-Santa Ana-Garden Grove	755.5	800.0	803.7	2.3	2.4	2.3	49.3	50.0	50.5	199.5	213.8	214.3
18 Bakersfield	122.3	126.5	125.2	10.1	10.5	10.6	7.2	7.2	7.2	9.5	9.7	9.9
19 Fresno	175.9	182.7	184.3	.9	.9	.9	12.0	13.4	13.5	25.5	25.4	26.1
20 Los Angeles-Long Beach	3,426.6	3,559.2	3,555.4	11.5	11.8	11.7	111.7	115.8	116.7	882.2	921.7	920.9
21 Modesto	92.7	89.2	96.3	.1	.1	.1	6.3	6.6	6.8	27.5	21.9	28.8
22 Oxnard-Simi Valley-Ventura	136.2	138.5	136.0	2.3	2.4	2.4	7.2	7.7	7.6	21.5	20.7	21.2
23 Riverside-San Bernardino-Ontario	403.1	424.9	424.1	2.3	2.5	2.5	28.3	29.9	30.5	64.6	66.6	67.4
24 Sacramento	375.1	390.6	396.4	.4	.4	.4	23.6	25.7	26.3	30.5	28.0	32.0
25 Salinas-Seaside-Monterey	84.4	85.7	84.9	.6	.6	.6	3.8	3.6	3.6	10.0	10.1	9.7
26 San Diego	599.3	624.4	627.4	.7	.7	.7	40.0	41.3	41.6	89.9	98.3	98.9
27 San Francisco-Oakland	1,491.2	1,534.1	1,534.3	1.9	2.0	2.0	71.7	73.5	73.7	204.5	207.7	207.6
28 San Jose	599.3	627.5	634.4	.1	.1	.1	25.3	25.2	25.9	209.2	222.4	229.3
29 Santa Barbara-Santa Maria-Lompoc	111.7	114.1	111.5	1.1	1.1	1.1	4.9	5.2	5.2	14.8	15.6	15.2
30 Santa Rosa	84.1	86.4	86.0	.4	.5	.5	5.6	5.5	5.8	13.3	13.9	14.4
31 Stockton	119.4	118.3	123.9	.1	.1	.1	6.1	6.5	6.6	26.1	21.0	26.4
32 Vallejo-Fairfield-Napa	96.2	98.6	97.6	.3	.3	.3	5.1	5.3	5.3	10.8	11.1	11.4
33 COLORADO	1,149.2	1,186.6	1,192.5	28.6	31.7	31.8	80.3	82.2	83.0	169.4	180.3	182.4
34 Denver-Boulder	725.6	752.0	757.6	15.7	17.9	17.9	48.4	51.5	52.3	116.7	122.4	123.5
35 CONNECTICUT	1,356.1	1,397.6	1,389.5	(2)	(2)	(2)	53.8	54.4	54.8	414.0	428.1	423.4
36 Bridgeport	160.7	165.7	166.0	(2)	(2)	(2)	5.9	6.6	6.7	63.4	66.3	66.5
37 Hartford	365.2	382.5	380.3	(2)	(2)	(2)	13.6	14.0	14.1	84.5	92.9	91.7
38 New Britain	58.9	58.0	58.5	(2)	(2)	(2)	2.4	2.4	2.4	28.0	26.9	26.9
39 New Haven-West Haven	187.3	189.6	188.3	(2)	(2)	(2)	6.7	6.7	7.0	45.0	45.6	43.9
40 Stamford	103.5	107.6	107.6	(2)	(2)	(2)	5.1	5.4	5.4	30.1	30.9	30.9
41 Waterbury	87.3	88.9	90.2	(2)	(2)	(2)	3.5	3.8	3.8	32.9	32.9	33.4
42 DELAWARE	248.6	250.6	246.8	(1)	(1)	(1)	16.4	15.6	15.6	67.6	69.1	66.9
43 Wilmington	213.4	217.8	213.1	(1)	(1)	(1)	15.5	14.3	14.3	61.7	64.3	61.2
44 DISTRICT OF COLUMBIA	603.4	615.0	612.6	(1)	(1)	(1)	15.7	15.3	15.3	15.3	15.3	15.3
45 Washington SMSA	1,476.5	1,507.4	1,499.6	(1)	(1)	(1)	85.1	82.4	81.8	52.1	54.0	53.9
46 FLORIDA	3,104.8	3,241.0	3,240.3	9.3	9.7	9.8	215.2	231.6	233.8	422.7	440.4	444.4
47 Daytona Beach	69.7	74.5	72.9	(1)	(1)	(1)	4.1	4.6	4.6	7.2	7.9	7.9
48 Fort Lauderdale-Hollywood	283.5	295.3	294.9	(1)	(1)	(1)	22.8	24.9	25.0	35.5	38.3	38.7
49 Gainesville	58.8	61.1	60.6	(1)	(1)	(1)	3.3	3.3	3.5	3.9	3.9	3.9
50 Jacksonville	275.9	279.6	281.6	(1)	(1)	(1)	15.8	15.5	15.7	32.0	31.9	32.9
51 Miami	648.2	663.1	663.6	(1)	(1)	(1)	32.6	35.3	35.9	95.1	96.1	96.8
52 Orlando	248.1	259.2	256.5	(1)	(1)	(1)	16.1	16.7	17.6	31.3	34.1	34.1
53 Pensacola	94.0	95.5	95.2	(1)	(1)	(1)	6.3	6.7	6.7	13.3	13.2	13.1
54 Sarasota	60.4	61.8	61.7	(1)	(1)	(1)	6.6	6.4	6.3	6.0	6.4	6.6
55 Tallahassee	65.1	66.9	67.2	(1)	(1)	(1)	3.4	3.5	3.5	2.4	2.5	2.5
56 Tampa-St. Petersburg	466.2	481.7	479.1	(1)	(1)	(1)	31.4	32.9	32.5	67.2	68.9	68.4
57 West Palm Beach-Boca Raton	166.0	178.6	179.3	(1)	(1)	(1)	15.3	16.7	16.6	22.8	25.3	25.6
58 GEORGIA	1,992.8	2,012.2	2,014.8	7.7	7.8	7.9	100.5	95.8	96.1	507.7	516.1	515.9
59 Albany	41.4	43.8	43.7	(1)	(1)	(1)	3.4	4.1	4.0	10.3	11.3	11.4
60 Atlanta	843.2	858.3	852.9	(1)	(1)	(1)	39.2	37.6	39.8	130.0	134.9	131.9
61 Augusta	120.6	120.9	121.1	(1)	(1)	(1)	7.7	6.9	6.8	35.6	36.5	36.4
62 Columbus	80.6	81.9	82.5	(1)	(1)	(1)	5.4	4.9	4.9	20.4	20.8	21.0
63 Macon	95.1	94.8	94.9	(1)	(1)	(1)	4.6	4.4	4.4	15.9	14.6	15.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	
71.2	71.8	72.0	272.2	275.1	275.5	58.6	59.2	59.2	194.4	199.2	200.2	295.6	292.5	285.9	1
28.2	28.9	29.0	84.7	87.5	87.8	22.9	23.3	23.3	62.7	65.2	65.3	52.7	52.3	50.0	2
2.7	2.7	2.7	22.0	22.7	22.9	3.6	3.5	3.5	17.8	18.3	18.2	33.0	33.9	33.1	3
10.9	11.1	11.3	36.9	36.4	36.3	7.0	7.3	7.2	26.9	27.2	27.0	23.3	23.5	22.7	4
5.0	5.1	5.1	24.5	24.4	24.4	6.0	6.1	6.1	18.4	19.0	18.9	27.8	29.3	28.8	5
1.8	1.7	1.7	9.4	9.3	9.3	1.7	1.7	1.7	6.0	5.8	5.8	16.1	16.1	16.4	6
17.8	17.6	17.9	30.4	29.2	29.8	8.3	7.8	7.8	30.8	30.4	30.7	53.5	51.9	52.5	7
45.0	48.4	48.6	211.1	226.0	226.3	50.1	52.8	53.0	171.1	184.2	184.2	177.2	179.8	178.6	8
27.0	28.9	29.2	140.5	151.0	151.7	38.6	40.1	40.3	106.4	115.4	115.4	91.9	90.7	90.0	9
8.1	8.7	8.7	35.8	37.5	37.4	7.1	7.7	7.7	32.8	34.8	34.8	39.2	38.5	38.4	10
41.6	44.1	43.9	161.9	164.2	165.3	31.1	32.2	32.3	105.9	113.2	113.6	127.5	126.5	127.3	11
3.3	3.5	3.4	14.7	14.9	15.1	2.3	2.3	2.3	8.2	8.7	8.8	10.7	10.3	10.7	12
3.3	3.5	3.5	14.8	14.7	14.7	2.4	2.5	2.6	11.0	11.3	11.2	6.9	5.9	5.9	13
12.4	12.8	12.8	40.4	41.8	41.5	12.1	12.3	12.3	31.7	34.7	34.9	35.9	35.8	35.6	14
3.6	3.8	3.8	6.2	6.1	6.0	1.2	1.2	1.2	4.7	4.9	5.0	6.0	6.1	6.0	15
517.0	541.4	539.5	2,157.4	2,269.9	2,276.5	558.5	587.4	590.0	1,977.5	2,109.6	2,120.8	1,674.0	1,660.5	1,637.9	16
24.0	26.3	26.4	185.8	199.6	201.0	47.3	52.7	53.3	155.8	166.0	166.6	91.5	89.2	89.3	17
7.4	7.6	7.6	31.2	32.7	32.1	4.4	4.6	4.6	20.4	21.4	21.4	32.1	32.8	31.8	18
10.2	10.6	10.7	48.2	50.5	51.1	9.6	10.1	10.3	33.4	34.5	34.8	36.1	37.3	36.9	19
192.3	205.1	203.2	796.4	827.9	827.2	214.2	218.5	219.3	767.1	800.4	802.8	451.2	458.0	453.6	20
3.9	3.7	3.9	20.5	22.1	22.3	2.8	3.1	3.1	15.8	16.4	16.5	15.8	15.3	14.8	21
5.8	6.2	6.1	33.3	34.3	34.1	5.8	6.1	6.1	25.7	27.6	27.4	34.6	33.5	31.1	22
21.7	23.2	23.1	98.6	105.2	104.9	17.0	17.7	17.8	81.6	86.6	86.4	89.0	93.2	91.5	23
20.7	21.9	22.0	86.1	91.7	93.2	18.9	20.5	20.7	68.2	74.3	74.9	126.7	128.1	126.9	24
5.0	4.9	4.9	22.2	22.4	22.5	3.9	4.1	4.1	18.6	18.9	18.9	20.3	21.1	20.6	25
26.6	27.1	27.5	142.0	148.9	149.5	33.5	35.2	35.5	140.0	143.6	145.5	126.6	129.3	128.2	26
127.6	129.6	126.6	340.2	359.8	361.0	133.3	139.1	140.0	322.7	338.1	339.7	289.3	284.3	283.7	27
20.0	20.9	21.1	114.4	119.2	119.6	23.8	25.2	25.6	130.7	137.0	137.3	75.8	77.5	75.5	28
4.3	4.4	4.4	29.7	30.3	30.3	4.8	4.9	4.9	29.7	30.5	30.4	22.4	22.1	20.0	29
4.2	4.2	4.3	20.3	21.3	21.3	5.2	5.3	5.3	16.3	16.5	16.6	18.8	19.2	17.8	30
8.3	8.3	8.4	26.5	27.7	28.0	4.8	5.0	5.0	22.3	23.6	23.8	25.2	26.1	25.6	31
4.4	4.4	4.4	20.2	20.7	20.8	3.3	3.5	3.5	17.4	17.9	18.0	34.7	35.4	33.9	32
70.4	74.8	75.4	290.6	293.1	294.6	68.8	72.0	72.6	237.8	244.4	245.8	203.3	208.0	206.8	33
48.6	50.8	52.7	183.1	185.0	185.9	48.6	51.0	51.4	152.2	158.3	158.9	112.3	115.0	114.9	34
56.6	58.7	58.8	284.3	296.7	295.9	97.5	100.5	100.6	269.9	281.1	280.9	180.1	178.2	175.1	35
5.7	6.1	6.2	32.7	33.0	33.0	6.8	6.8	6.9	30.6	31.5	31.5	15.6	15.3	15.2	36
14.1	14.4	14.4	76.8	79.7	79.2	55.4	57.4	57.5	71.1	75.1	74.3	49.8	49.0	49.1	37
1.4	1.4	1.5	10.1	10.2	10.5	1.7	1.7	1.7	9.5	9.6	9.7	5.8	5.8	5.8	38
14.9	14.9	14.9	39.6	40.3	40.4	10.5	10.7	10.7	45.9	46.8	46.8	24.6	24.6	24.7	39
3.7	3.9	3.8	23.9	24.5	24.5	7.3	7.5	7.5	24.5	26.1	26.2	8.9	9.3	9.4	40
2.9	2.9	2.9	15.5	15.9	15.9	3.2	3.3	3.3	18.8	19.4	20.3	10.5	10.8	10.6	41
12.7	12.8	12.9	55.3	53.6	53.1	11.6	11.7	11.7	43.6	44.7	44.8	41.3	43.0	41.9	42
12.2	12.3	12.3	43.6	43.1	42.5	10.3	10.4	10.4	38.0	39.6	39.8	32.2	33.8	32.6	43
25.7	26.1	26.2	65.7	66.0	66.1	33.9	34.3	34.2	157.7	158.7	159.5	289.4	299.3	296.0	44
65.1	67.4	67.3	280.6	282.9	282.7	85.9	89.8	89.6	363.0	372.6	373.8	544.7	558.3	550.5	45
190.4	207.1	207.8	795.8	811.5	810.7	220.5	239.9	241.8	671.1	702.5	702.8	578.8	598.3	589.2	46
2.7	2.8	2.8	20.3	20.4	19.9	4.1	4.3	4.4	19.1	21.2	19.8	12.2	13.3	13.5	47
13.9	14.6	14.5	79.7	80.7	80.4	24.1	25.3	25.2	68.9	71.4	71.2	38.6	40.1	39.9	48
1.5	1.5	1.5	12.5	11.8	11.6	2.6	2.7	2.7	7.9	8.2	8.3	27.1	29.7	29.1	49
22.3	23.4	23.6	72.9	73.2	73.2	28.0	28.4	28.5	54.0	55.8	56.1	50.9	51.4	51.6	50
62.7	69.5	69.7	163.4	162.5	161.5	46.4	49.6	49.8	150.5	157.3	157.4	97.5	92.8	92.5	51
11.8	13.0	13.1	71.1	71.8	69.7	16.7	18.3	18.3	66.0	69.5	68.4	35.1	35.8	35.3	52
4.8	5.4	5.6	22.2	22.4	22.4	4.2	4.5	4.5	17.6	18.4	18.4	25.6	24.9	24.5	53
2.7	2.7	2.8	17.2	17.4	16.9	4.8	4.9	4.8	14.8	14.5	14.9	8.3	9.5	9.4	54
2.2	2.3	2.3	13.6	13.9	14.5	3.0	3.1	3.1	9.2	11.5	11.6	31.3	30.1	29.7	55
27.6	28.1	28.1	130.6	131.2	130.9	34.6	37.2	37.7	105.6	110.0	109.6	69.2	73.4	71.9	56
7.5	8.0	8.0	42.3	44.3	44.0	13.3	14.4	14.4	36.5	38.2	38.6	28.3	31.7	32.1	57
128.2	128.8	128.7	459.4	462.7	462.8	102.6	105.9	106.6	302.4	306.4	306.1	384.3	388.7	390.6	58
1.8	1.9	2.0	9.7	9.2	9.1	1.7	1.8	1.8	5.0	5.2	5.3	9.5	10.2	10.2	59
77.3	79.5	78.2	238.4	236.6	236.1	59.0	62.3	62.9	158.0	160.5	159.1	141.3	146.9	144.9	60
4.2	4.3	4.3	24.4	24.5	24.3	4.3	4.4	4.4	14.7	15.5	16.0	29.7	28.8	28.8	61
3.4	3.5	3.5	17.3	17.5	17.3	5.2	5.3	5.3	11.1	10.8	10.9	17.9	19.1	19.6	62
4.5	4.6	4.6	19.8	19.7	19.4	5.8	5.8	5.9	15.2	15.1	15.1	29.3	30.5	30.4	63

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
GEORGIA—Continued												
1 Savannah	84.9	83.1	84.5	(1)	(1)	(1)	6.0	5.2	4.8	17.0	16.8	16.6
HAWAII												
2 Honolulu	379.2	385.5	383.8	(1)	(1)	(1)	20.7	22.1	21.9	25.8	26.5	25.9
3 Honolulu	313.2	318.8	317.0	(1)	(1)	(1)	17.3	18.2	17.6	19.4	20.1	19.6
IDAHO³												
4 Boise City	338.8	338.5	340.5	4.2	4.5	4.4	22.8	21.2	21.1	59.0	60.3	60.5
5 Boise City	82.9	84.9	(*)	(1)	(1)	(*)	7.0	6.5	(*)	9.5	10.3	(*)
ILLINOIS												
6 Chicago-Gary	4,811.1	4,897.6	4,898.4	27.9	28.8	28.2	194.4	188.6	191.2	1,234.5	1,240.9	1,240.0
7 Bloomington-Normal	46.8	46.9	47.5	(2)	(2)	(2)	1.8	1.6	1.6	6.9	7.0	7.2
8 Champaign-Urbana-Rantoul	65.1	69.3	67.8	(2)	(2)	(2)	3.2	3.2	3.3	7.7	8.1	8.1
9 Chicago-Gary	3,454.5	3,521.9	(*)	4.9	5.1	(*)	155.0	156.0	(*)	940.8	950.7	(*)
10 Chicago SMSA ⁴	3,194.0	3,262.2	3,261.5	4.8	5.0	5.0	136.9	137.5	137.7	837.0	844.1	842.4
11 Davenport-Rock Island-Moline	157.7	164.8	164.9	(2)	(2)	(2)	8.1	7.5	7.6	46.5	51.2	51.6
12 Decatur	52.8	54.8	54.7	(2)	(2)	(2)	3.3	3.5	3.5	19.4	19.2	19.1
13 Kankakee	34.0	33.6	33.7	(2)	(2)	(2)	1.2	1.2	1.2	9.6	9.5	9.6
14 Peoria	151.0	153.8	153.6	(2)	(2)	(2)	9.5	9.8	9.8	51.8	51.7	51.3
15 Rockford	120.8	123.5	122.9	(2)	(2)	(2)	3.9	3.6	3.6	55.8	57.4	57.1
16 Springfield	88.8	84.4	88.8	(2)	(2)	(2)	4.2	4.2	4.3	8.1	7.7	7.7
INDIANA												
17 Anderson	2,227.5	2,258.3	2,249.3	10.2	10.2	10.3	111.5	122.1	121.5	742.2	740.2	731.6
18 Evansville	52.4	51.4	51.2	(1)	(1)	(1)	1.3	1.2	1.3	25.2	23.9	23.6
19 Fort Wayne	126.1	126.9	126.1	2.6	2.6	2.6	8.2	8.0	8.1	38.6	39.1	37.7
20 Gary-Hammond-East Chicago ⁴	174.2	178.7	180.1	(1)	(1)	(1)	7.9	8.2	8.6	62.0	61.9	62.1
21 Indianapolis	260.5	260.1	259.4	(1)	(1)	(1)	18.1	18.5	18.6	103.8	105.4	104.2
22 Lafayette-West Lafayette	512.4	524.1	520.4	(1)	(1)	(1)	19.9	20.7	20.8	128.7	130.8	127.2
23 Muncie	53.4	55.4	54.6	(1)	(1)	(1)	2.1	2.3	2.3	12.4	12.5	12.5
24 South Bend	48.0	48.8	47.4	(1)	(1)	(1)	2.1	2.0	2.1	13.9	14.6	13.2
25 Terre Haute	110.5	113.1	112.3	(1)	(1)	(1)	5.2	4.9	4.9	34.8	34.6	34.2
26 Terre Haute	63.3	63.9	64.0	1.4	1.5	1.5	2.5	2.9	3.1	18.0	17.0	17.0
IOWA												
27 Cedar Rapids	1,092.5	1,125.5	1,120.5	2.6	2.5	2.5	66.1	65.8	66.6	245.4	258.8	258.1
28 Des Moines	82.9	83.9	84.7	(1)	(1)	(1)	4.4	3.9	4.3	28.9	28.9	29.2
29 Dubuque	178.3	181.5	181.1	(1)	(1)	(1)	9.5	8.8	8.9	25.4	26.5	26.1
30 Sioux City	43.5	45.4	45.3	(1)	(1)	(1)	2.2	2.5	2.4	16.8	17.7	17.7
31 Waterloo-Cedar Falls	50.9	51.0	50.7	(1)	(1)	(1)	4.2	4.0	3.6	9.7	9.1	9.2
32 Waterloo-Cedar Falls	63.6	68.0	67.6	(1)	(1)	(1)	3.2	3.4	3.3	22.0	24.3	24.1
KANSAS												
33 Lawrence	910.4	944.4	944.3	12.9	13.4	13.9	51.5	56.3	57.5	186.2	197.8	197.5
34 Topeka	24.8	25.7	26.6	(2)	(2)	(2)	1.3	1.5	1.5	4.1	4.8	4.7
35 Wichita	84.7	86.3	86.2	.3	.3	.3	4.2	4.0	4.1	11.4	12.4	11.7
36 Wichita	193.4	206.1	206.4	2.1	2.2	2.3	10.9	12.7	13.1	60.0	67.6	67.9
KENTUCKY												
37 Lexington-Fayette	1,246.9	1,264.3	1,268.5	58.8	59.3	58.6	79.1	76.7	78.4	291.6	289.9	287.9
38 Louisville	144.5	149.1	149.8	(1)	(1)	(1)	8.8	10.1	10.3	29.8	30.7	30.8
39 Owensboro	404.8	416.4	414.3	(1)	(1)	(1)	22.6	22.1	22.5	110.3	107.4	108.1
40 Owensboro	30.7	31.4	31.6	.9	.8	.8	2.5	2.7	2.8	7.2	6.8	6.7
LOUISIANA												
41 Alexandria	1,415.7	1,443.2	1,444.8	73.6	77.4	78.2	120.1	124.6	124.9	209.0	211.0	213.3
42 Baton Rouge	49.6	50.7	50.5	(1)	(1)	(1)	3.7	3.6	3.4	6.1	6.5	6.6
43 Lafayette	186.5	183.4	185.2	1.1	1.1	1.1	25.8	24.8	25.6	24.8	25.1	25.1
44 Lake Charles	62.9	67.4	67.8	11.8	12.3	12.2	5.2	6.5	6.5	3.6	3.9	4.2
45 Monroe	58.5	59.2	59.1	1.8	1.9	1.9	6.2	5.6	5.6	12.1	12.7	12.7
46 New Orleans	49.0	50.0	50.1	.4	.3	.3	4.9	4.6	4.7	8.5	8.8	8.7
47 Shreveport	471.6	475.5	476.4	16.0	16.3	16.4	29.4	29.0	28.8	52.0	53.1	52.3
48 Shreveport	141.6	145.7	146.2	5.3	5.5	5.4	10.0	11.1	11.4	28.5	27.9	28.0
MAINE												
49 Lewiston-Auburn	423.7	415.7	422.9	(1)	(1)	(1)	21.9	20.5	20.0	112.7	109.2	116.7
50 Portland	34.5	33.4	35.5	(1)	(1)	(1)	1.4	1.4	1.5	12.5	10.7	12.1
51 Portland	90.6	88.7	89.3	(1)	(1)	(1)	4.4	4.3	4.2	17.3	17.2	17.9
MARYLAND												
52 Baltimore	1,612.1	1,635.7	1,614.6	(1)	(1)	(1)	112.1	111.5	111.0	243.5	246.6	240.9
53 Baltimore	889.1	898.7	881.6	(1)	(1)	(1)	54.5	54.6	55.5	163.6	165.0	159.2
MASSACHUSETTS												
54 Boston	2,555.2	2,572.3	2,581.0	(1)	(1)	(1)	83.0	83.6	85.1	655.8	655.6	662.9
55 Brockton	1,386.4	1,398.4	1,392.7	(1)	(1)	(1)	42.2	43.1	44.0	285.3	285.3	282.7
56 Fall River	56.0	56.3	57.1	-	-	-	2.0	1.9	2.0	12.5	12.7	13.1
57 Lawrence-Haverhill	57.8	57.4	58.2	(1)	(1)	(1)	1.9	2.1	2.1	21.0	20.2	20.9
58 Lowell	108.4	107.0	107.6	(1)	(1)	(1)	3.1	3.1	3.2	41.5	39.0	39.7
59 New Bedford	70.9	74.0	75.2	(1)	(1)	(1)	3.0	3.0	3.1	23.8	25.2	26.3
60 Springfield-Chicopee-Holyoke	66.9	66.9	67.4	(1)	(1)	(1)	1.9	1.7	1.8	26.5	26.0	26.4
61 Springfield-Chicopee-Holyoke	231.1	238.1	238.7	(1)	(1)	(1)	6.3	6.3	6.4	67.1	67.4	68.0

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	
9.5	9.8	9.7	19.3	19.5	19.7	4.0	4.2	4.3	13.7	13.4	13.6	15.4	14.1	15.9	1
29.0	29.1	28.8	96.6	97.0	96.2	28.7	29.6	29.8	88.9	92.7	92.2	89.5	88.5	89.0	2
23.8	24.3	24.1	80.3	80.5	80.0	25.2	26.0	26.1	72.1	75.0	74.7	75.1	74.7	74.9	3
20.0	20.3	20.4	82.2	82.4	82.5	22.6	23.1	23.2	59.7	61.2	61.4	68.3	65.5	67.0	4
4.7	4.7	(*)	21.4	21.3	(*)	8.8	9.4	(*)	13.8	14.6	(*)	17.7	18.1	(*)	5
291.8	302.6	303.1	1,091.0	1,102.9	1,102.3	289.4	300.2	300.1	912.6	938.3	940.3	769.7	795.3	793.2	6
3.1	3.2	3.2	11.4	11.6	11.6	7.4	7.5	7.5	7.2	7.7	7.6	9.0	8.5	8.8	7
2.6	2.7	2.7	15.4	16.4	16.4	2.3	2.4	2.4	9.5	9.8	9.7	24.4	26.8	25.3	8
212.8	219.0	(*)	754.9	770.1	(*)	216.3	222.9	(*)	669.2	683.1	(*)	500.6	515.2	(*)	9
197.6	204.0	204.4	704.9	718.7	718.5	207.4	213.4	213.6	634.2	650.2	650.1	471.1	489.3	489.7	10
6.9	8.0	8.0	41.7	42.2	42.2	6.7	6.7	6.8	23.1	23.3	23.2	24.7	25.8	25.6	11
3.6	4.8	4.8	11.2	11.3	11.3	2.5	2.6	2.6	8.4	8.8	8.8	4.3	4.7	4.6	12
1.3	1.5	1.5	8.2	8.0	8.0	1.1	1.0	1.0	6.2	6.2	6.2	6.4	6.3	6.3	13
7.6	8.0	8.0	35.5	36.1	36.1	7.4	7.6	7.6	26.9	28.0	28.2	12.2	12.6	12.5	14
5.1	5.1	5.0	24.5	25.1	25.1	4.0	4.2	4.2	16.0	17.1	16.9	11.5	11.1	11.1	15
4.8	4.8	4.8	21.5	19.6	21.8	6.7	6.8	6.5	17.8	16.3	17.9	25.6	25.0	25.7	16
108.5	112.0	112.0	479.4	484.5	485.2	98.3	101.1	101.0	319.4	327.6	329.3	357.9	360.7	358.4	17
1.5	1.5	1.5	10.6	10.4	10.5	1.7	1.7	1.7	6.8	6.8	6.8	5.3	5.9	5.8	18
6.7	6.8	6.8	29.7	30.1	30.3	4.3	4.4	4.4	23.5	24.1	24.2	12.5	11.8	12.0	19
10.6	11.4	11.4	40.5	42.2	42.6	9.7	10.2	10.2	26.8	27.1	27.4	16.7	17.7	17.8	20
15.2	15.6	15.6	50.0	51.3	51.7	8.9	9.1	9.1	35.0	34.6	34.7	29.5	25.6	25.5	21
30.8	31.4	31.5	125.0	129.4	129.4	35.3	36.1	36.0	84.5	88.5	88.7	88.2	87.2	86.8	22
1.6	1.6	1.6	11.3	11.4	11.6	2.8	2.8	2.7	8.6	8.9	9.0	14.6	15.9	14.9	23
2.0	2.2	2.2	11.4	11.2	11.2	1.5	1.6	1.6	7.6	7.7	7.7	9.5	9.5	9.4	24
5.3	5.3	5.3	26.7	27.6	27.5	5.0	5.3	5.3	22.0	22.7	22.7	11.5	12.7	12.4	25
4.0	4.0	4.0	15.8	15.9	16.0	2.0	2.1	2.1	8.8	9.1	9.0	10.8	11.4	11.3	26
56.4	58.0	57.8	282.8	293.4	290.5	56.5	58.7	59.1	192.6	197.3	200.0	190.2	190.9	186.1	27
4.0	4.0	4.0	18.2	18.5	18.5	4.3	4.4	4.4	14.5	15.1	15.1	8.6	9.1	9.2	28
11.2	11.7	11.8	47.7	48.0	48.1	19.8	20.6	20.6	37.3	38.4	38.5	27.4	27.5	27.2	29
1.6	1.6	1.6	9.0	9.1	9.3	1.3	1.3	1.3	9.1	9.3	9.2	3.4	4.0	4.0	30
4.0	4.1	4.1	13.4	13.4	13.4	2.8	2.8	2.8	10.8	11.1	11.2	6.1	6.5	6.4	31
2.6	2.6	2.6	14.2	14.8	14.8	2.0	2.1	2.1	10.3	10.9	10.9	9.2	10.0	9.8	32
63.8	67.6	67.2	222.1	225.1	224.5	46.1	47.8	47.7	159.0	165.8	166.7	168.8	170.6	169.3	33
1.4	1.5	1.5	5.3	5.5	5.5	.8	.8	.8	3.1	3.2	3.3	8.9	8.4	9.3	34
7.5	7.5	7.5	19.1	19.2	19.4	5.7	5.9	6.0	16.1	16.9	16.8	20.7	20.4	20.4	35
10.3	10.9	10.9	43.0	44.5	44.3	9.2	9.4	9.3	36.2	37.3	37.4	21.8	21.5	21.2	36
68.8	70.0	69.6	269.2	283.1	281.6	49.2	51.2	51.0	203.4	208.4	212.1	226.8	225.7	229.3	37
6.9	7.6	7.6	32.7	33.4	33.8	6.9	7.1	7.1	25.0	27.4	27.2	34.3	32.8	33.0	38
24.5	25.4	25.7	93.5	100.4	100.6	22.2	23.4	23.3	72.3	75.7	75.7	59.4	62.1	58.4	39
2.2	2.3	2.3	7.6	7.6	7.6	1.1	1.2	1.2	5.1	5.8	6.0	4.1	4.2	4.2	40
110.5	111.5	111.6	337.8	342.8	342.6	70.0	73.1	72.6	242.8	246.9	247.0	251.9	255.9	254.6	41
2.5	2.6	2.6	11.0	11.1	11.0	3.1	3.3	3.3	9.5	9.9	9.9	13.7	13.7	13.7	42
9.7	9.6	9.6	40.4	38.6	38.8	10.6	11.0	11.0	27.7	26.4	26.5	46.4	46.8	47.5	43
4.4	4.6	4.7	16.2	17.3	17.4	1.9	2.1	2.2	12.0	12.7	12.6	7.8	8.0	8.0	44
3.2	3.1	3.0	12.9	13.0	13.0	2.5	2.6	2.6	9.0	9.1	9.1	10.8	11.2	11.2	45
2.4	2.4	2.5	12.9	12.7	12.7	3.3	3.4	3.4	7.3	8.2	8.2	9.3	9.6	9.6	46
48.1	48.0	48.2	118.8	118.5	118.7	28.4	29.7	29.6	104.9	105.5	105.8	74.0	75.4	76.6	47
9.7	10.4	10.4	34.4	34.8	35.1	6.5	6.8	6.8	24.4	24.5	24.7	22.8	24.7	24.4	48
18.6	19.3	19.3	96.4	94.8	95.7	16.2	16.5	16.5	78.9	78.7	78.7	79.0	76.7	76.0	49
1.1	1.1	1.1	7.7	8.1	8.8	1.5	1.6	1.6	6.8	7.2	7.2	3.5	3.3	3.2	50
5.5	5.5	5.5	25.1	23.1	23.1	6.9	7.2	7.3	19.3	19.3	19.4	12.1	12.1	11.9	51
85.9	87.2	86.0	381.8	382.5	381.8	87.3	90.9	90.9	322.0	334.3	335.1	379.5	382.7	368.9	52
59.4	61.8	61.1	191.6	188.6	188.3	52.4	54.2	54.2	171.3	176.2	176.7	196.3	198.3	186.6	53
114.4	115.2	116.3	555.5	567.7	567.3	150.3	154.9	154.9	570.3	595.9	597.2	425.9	399.4	397.3	54
68.6	69.6	70.1	297.8	304.2	303.1	102.0	106.9	106.6	371.4	386.1	383.9	219.1	203.2	202.3	55
4.0	4.4	4.4	14.7	14.8	14.9	2.1	2.2	2.3	8.9	9.3	9.4	11.8	11.0	11.0	56
1.9	2.0	2.0	12.2	12.2	12.3	2.6	2.6	2.6	10.2	10.4	10.5	8.0	7.9	7.8	57
3.9	4.0	4.0	22.3	23.1	23.0	3.8	3.8	3.8	16.3	16.6	16.8	17.5	17.4	17.1	58
3.3	3.6	3.7	15.0	15.7	15.7	2.1	2.3	2.3	10.9	11.7	11.6	12.8	12.5	12.5	59
2.4	2.4	2.5	12.7	12.6	12.6	2.0	2.0	2.0	9.0	9.3	9.3	12.4	12.9	12.8	60
9.1	10.0	10.0	47.5	51.0	51.1	12.6	13.2	13.3	43.5	46.2	46.4	45.0	44.0	43.5	61

ESTABLISHMENT DATA

STATE AND AREA EMPLOYMENT

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
MASSACHUSETTS—Continued												
1 Worcester	160.9	163.8	164.8	(1)	(1)	(1)	4.9	5.2	5.3	47.2	47.4	48.4
2 MICHIGAN	(*)	3,577.6	3,525.2	(*)	12.1	12.0	(*)	157.5	162.8	(*)	1,114.8	1,057.7
3 Ann Arbor	(*)	136.1	134.2	(*)	(1)	(1)	(*)	3.4	3.4	(*)	44.8	42.9
4 Battle Creek	(*)	67.9	67.5	(*)	(1)	(1)	(*)	2.4	2.4	(*)	24.0	23.7
5 Bay City	(*)	36.3	35.8	(*)	(1)	(1)	(*)	1.4	1.4	(*)	11.4	10.9
6 Detroit	(*)	1,778.3	1,754.0	(*)	1.2	1.2	(*)	68.3	69.9	(*)	566.7	539.5
7 Flint	(*)	203.0	190.5	(*)	(1)	(1)	(*)	7.2	7.0	(*)	86.1	73.8
8 Grand Rapids	(*)	258.9	259.7	(*)	(1)	(1)	(*)	14.4	15.3	(*)	90.0	90.2
9 Jackson	(*)	55.3	55.1	(*)	(1)	(1)	(*)	2.1	2.1	(*)	16.2	15.9
10 Kalamazoo-Portage	(*)	106.2	105.6	(*)	(1)	(1)	(*)	5.2	5.4	(*)	35.0	34.7
11 Lansing-East Lansing	(*)	191.6	180.3	(*)	(1)	(1)	(*)	7.6	7.7	(*)	46.5	35.2
12 Muskegon-Norton Shores-Musk. Hgts.	(*)	62.9	63.1	(*)	(1)	(1)	(*)	3.1	3.1	(*)	22.9	23.1
13 Saginaw	(*)	92.8	90.9	(*)	(1)	(1)	(*)	3.3	3.3	(*)	36.8	34.6
14 MINNESOTA	1,706.3	1,768.1	1,769.8	18.0	18.4	18.4	93.9	101.6	103.4	372.5	382.2	386.2
15 Duluth-Superior	63.2	64.1	63.5	(1)	(1)	(1)	2.7	2.8	3.0	8.1	8.5	8.6
16 Minneapolis-St. Paul	1,014.1	1,063.6	1,063.0	(1)	(1)	(1)	48.8	56.3	57.1	236.7	245.6	244.8
17 MISSISSIPPI	823.8	829.2	820.1	9.1	9.5	9.4	50.0	49.9	49.5	237.7	232.5	233.1
18 Jackson	139.8	144.3	143.0	1.1	1.2	1.2	8.6	10.4	9.8	19.2	19.0	19.1
19 MISSOURI	1,925.5	1,958.0	1,959.7	8.0	8.9	8.8	92.4	94.4	95.6	445.0	451.3	451.2
20 Kansas City	616.6	627.1	626.1	.5	.6	.6	31.3	32.2	33.2	117.6	124.0	122.8
21 St. Joseph	36.0	35.6	35.4	(2)	(2)	(2)	2.4	2.1	2.1	9.3	9.3	9.1
22 St. Louis	960.4	982.6	974.1	2.5	2.6	2.6	44.0	48.8	48.6	247.0	250.4	245.1
23 Springfield	80.5	80.7	81.3	(2)	(2)	(2)	4.0	4.3	3.9	18.3	18.2	18.4
24 MONTANA	287.5	298.0	300.2	7.2	8.3	8.3	19.4	18.8	19.0	27.2	28.6	28.8
25 Billings	45.7	47.3	47.8	(1)	(1)	(1)	2.9	3.0	3.1	4.2	4.4	4.3
26 Great Falls	31.2	31.6	31.7	(1)	(1)	(1)	2.0	2.1	2.1	1.9	2.0	2.0
27 NEBRASKA	604.3	616.9	616.1	1.7	1.7	1.7	37.2	37.1	37.3	93.3	97.0	96.7
28 Lincoln	97.6	97.3	98.6	(2)	(2)	(2)	5.0	5.1	5.1	13.8	14.1	14.0
29 Omaha	255.3	262.4	260.9	(2)	(2)	(2)	13.6	12.8	13.0	34.8	36.4	36.8
30 NEVADA	364.8	380.7	382.2	3.9	4.1	4.1	28.0	28.2	28.2	18.2	19.6	19.5
31 Las Vegas	192.8	201.7	203.0	.2	.2	.2	14.0	14.1	14.3	6.4	7.2	7.1
32 Reno	109.7	114.3	114.2	.6	.6	.7	9.5	9.0	8.7	8.2	8.6	8.5
33 NEW HAMPSHIRE	374.7	389.8	394.5	.5	.5	.5	19.8	22.4	22.7	111.0	112.1	114.8
34 Manchester	72.5	72.8	74.0	(2)	(2)	(2)	3.9	3.9	4.0	19.3	17.7	18.7
35 Nashua	56.2	59.3	60.0	(2)	(2)	(2)	3.1	3.5	3.5	25.4	26.3	26.9
36 NEW JERSEY	3,040.9	3,068.1	3,071.2	2.6	2.7	2.7	119.3	121.4	122.0	796.1	786.9	793.3
37 Atlantic City	81.3	89.9	91.5	—	—	—	3.7	7.4	7.3	8.7	8.0	8.1
38 Camden	328.2	329.3	330.1	.1	.1	.1	15.3	15.1	14.9	70.5	69.6	70.6
39 Hackensack	387.7	392.3	390.0	(1)	(1)	(1)	14.7	14.0	14.4	111.8	112.2	113.1
40 Jersey City	240.6	235.8	236.2	—	—	—	4.0	4.0	4.0	74.2	68.3	68.7
41 Long Branch-Asbury Park	160.8	161.9	161.8	(1)	(1)	(1)	6.9	6.1	5.9	24.1	24.1	24.2
42 New Bruns.-Perth Amboy-Sayreville	280.4	286.2	286.8	(1)	(1)	(1)	12.3	10.5	10.6	91.3	90.6	91.3
43 Newark	928.2	940.1	939.2	.9	.9	.9	34.2	35.2	35.2	248.3	251.8	250.2
44 Paterson-Clifton-Passaic	191.9	197.6	196.7	(1)	(1)	(1)	6.7	7.3	7.6	67.7	69.1	69.5
45 Trenton	159.6	164.0	163.3	(1)	(1)	(1)	3.4	3.1	3.3	36.4	37.2	36.6
46 Vineland-Milville-Bridgeton	57.9	58.0	58.7	(1)	(1)	(1)	1.8	1.9	1.9	20.1	18.8	19.6
47 NEW MEXICO	453.3	470.0	471.2	25.1	27.3	27.4	37.9	38.1	38.6	33.7	34.9	35.3
48 Albuquerque	181.3	187.3	187.1	(1)	(1)	(1)	16.3	16.1	16.3	17.4	18.0	18.2
49 NEW YORK	7,120.7	7,138.9	7,151.9	6.8	6.5	7.1	216.6	215.5	219.2	1,500.4	1,486.1	1,498.3
50 Albany-Schenectady-Troy	336.4	331.0	334.8	(1)	(1)	(1)	12.2	11.7	11.9	62.3	58.7	59.1
51 Binghamton	117.3	118.1	118.7	(1)	(1)	(1)	5.4	5.6	5.7	42.4	42.2	42.8
52 Buffalo	513.3	516.2	510.6	(1)	(1)	(1)	21.4	20.7	21.2	143.6	146.0	140.3
53 Elmira	37.9	37.6	37.5	(1)	(1)	(1)	1.7	1.3	1.4	11.6	11.6	11.1
54 Monroe County	330.0	338.8	336.4	(1)	(1)	(1)	11.7	11.1	11.3	133.4	138.0	135.3
55 Nassau-Suffolk	880.6	889.3	886.3	(1)	(1)	(1)	37.5	34.5	34.4	159.2	160.9	161.5
56 New York-Northeastern New Jersey	6,593.8	6,641.0	(*)	3.0	3.0	(*)	192.0	191.6	(*)	1,382.1	1,374.2	(*)
57 New York and Nassau-Suffolk	4,565.0	4,573.2	4,577.6	1.7	1.7	1.7	120.1	121.0	122.8	788.7	770.3	785.0
58 New York SMSA	3,684.4	3,683.9	3,691.3	1.5	1.5	1.5	82.6	86.5	88.3	629.6	609.4	623.5
59 New York City	3,255.6	3,251.0	3,259.7	1.3	1.3	1.3	64.3	69.6	71.0	541.1	518.9	533.2
60 Poughkeepsie	93.1	96.3	96.1	(1)	(1)	(1)	3.4	3.3	3.3	31.0	32.5	32.5
61 Rochester	408.9	415.8	414.6	(1)	(1)	(1)	14.2	13.7	13.8	155.3	159.0	157.4

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	
6.8	6.7	6.7	34.2	35.7	35.5	8.5	8.9	8.9	30.2	31.8	31.9	29.1	28.1	28.1	1
(*)	155.9	154.6	(*)	748.2	751.9	(*)	151.8	151.8	(*)	638.0	640.9	(*)	599.4	593.5	2
(*)	3.8	3.8	(*)	20.3	20.5	(*)	3.7	3.7	(*)	21.5	21.6	(*)	38.6	38.3	3
(*)	2.4	2.4	(*)	11.7	11.7	(*)	3.8	3.8	(*)	11.0	10.9	(*)	12.6	12.6	4
(*)	1.8	1.8	(*)	8.5	8.5	(*)	1.2	1.2	(*)	6.1	6.2	(*)	5.9	5.8	5
(*)	86.3	85.5	(*)	362.3	365.2	(*)	87.3	87.6	(*)	349.6	348.5	(*)	256.7	256.7	6
(*)	6.7	6.7	(*)	40.9	41.3	(*)	6.0	6.0	(*)	29.1	28.9	(*)	27.0	26.8	7
(*)	10.3	10.2	(*)	58.5	58.7	(*)	9.8	9.8	(*)	45.3	45.3	(*)	30.6	30.2	8
(*)	5.3	5.3	(*)	11.3	11.3	(*)	1.5	1.5	(*)	10.3	10.5	(*)	8.6	8.5	9
(*)	3.7	3.7	(*)	21.4	21.6	(*)	4.1	4.1	(*)	20.0	20.0	(*)	16.8	16.1	10
(*)	5.5	5.1	(*)	35.5	35.7	(*)	9.1	9.3	(*)	26.3	26.8	(*)	61.1	60.5	11
(*)	2.9	2.9	(*)	12.2	12.2	(*)	1.8	1.8	(*)	9.4	9.6	(*)	10.6	10.4	12
(*)	4.6	4.6	(*)	18.2	18.3	(*)	3.9	3.9	(*)	13.6	13.7	(*)	12.4	12.5	13
92.7	100.7	100.5	432.2	441.4	441.9	88.5	91.9	92.3	336.4	351.9	353.0	272.0	279.8	274.1	14
7.8	7.4	6.8	17.2	17.3	16.7	2.3	2.3	2.3	12.4	12.4	12.9	12.7	13.3	13.2	15
57.3	65.3	65.2	253.8	260.6	262.2	65.6	68.6	68.9	211.6	221.2	222.2	140.3	145.9	142.6	16
38.4	39.8	39.8	161.4	164.4	164.5	31.9	32.3	32.3	114.6	118.8	116.5	180.7	182.1	175.1	17
8.9	8.9	8.9	34.7	36.3	36.2	11.0	11.0	11.0	25.8	26.4	26.4	30.5	31.2	30.4	18
133.6	138.4	138.1	469.1	472.1	475.2	104.3	106.7	106.3	356.6	365.4	366.3	316.5	320.8	318.2	19
51.9	54.1	53.8	158.8	156.1	155.6	41.9	42.9	42.7	124.8	128.3	129.1	89.8	88.9	88.3	20
2.1	2.1	2.1	8.9	8.9	9.0	1.8	1.8	1.8	6.2	6.3	6.3	5.3	5.1	5.0	21
67.9	72.4	72.1	219.6	219.3	218.3	53.8	54.9	55.1	193.5	199.4	199.1	132.1	134.8	133.2	22
6.3	6.5	6.5	23.2	23.2	23.4	3.3	3.4	3.4	15.9	15.6	16.2	9.4	9.5	9.5	23
22.3	24.0	24.2	74.9	79.4	81.1	12.3	14.2	14.3	54.5	55.4	54.9	69.6	69.3	69.5	24
4.1	4.4	4.4	15.5	16.3	16.7	2.2	2.3	2.3	9.5	9.9	9.9	7.3	7.0	7.0	25
2.0	2.2	2.2	10.5	10.8	10.8	2.0	2.1	2.1	6.7	6.5	6.6	6.1	6.0	5.9	26
44.8	47.1	47.1	154.7	159.0	158.8	39.5	40.9	40.8	108.5	110.9	111.7	124.6	123.2	122.0	27
6.8	7.2	7.2	21.2	22.1	22.3	7.0	7.2	7.1	16.0	15.6	16.0	27.8	26.0	26.9	28
23.3	24.4	24.2	66.5	68.5	68.5	23.1	24.1	24.0	53.9	55.7	55.8	40.1	40.5	38.6	29
22.0	23.6	23.8	72.0	76.4	77.1	14.8	15.8	15.9	155.7	159.9	160.6	50.2	53.1	53.0	30
12.5	13.2	13.3	40.1	43.4	43.8	7.9	8.4	8.5	88.8	90.4	91.1	22.9	24.8	24.7	31
7.1	7.7	7.8	21.9	23.0	23.1	5.5	5.9	6.0	43.5	45.1	45.0	13.4	14.4	14.4	32
13.0	13.4	13.4	85.8	90.8	91.7	17.7	19.0	19.0	72.5	75.6	76.6	54.4	56.0	55.8	33
4.4	4.8	4.8	18.9	19.5	19.5	5.3	5.5	5.5	13.2	13.5	13.6	7.5	7.9	7.9	34
1.6	1.7	1.7	11.0	12.0	12.1	1.8	1.9	1.9	8.1	8.3	8.5	5.2	5.6	5.4	35
188.8	189.4	189.5	677.6	689.4	688.3	151.7	154.9	155.2	569.6	592.2	592.9	535.2	531.2	527.3	36
3.6	3.8	3.8	23.6	22.8	23.3	4.6	4.9	4.9	20.8	26.4	27.8	16.3	16.6	16.3	37
15.5	15.7	15.5	83.2	83.9	83.5	15.4	16.0	16.2	66.6	66.9	67.3	61.7	62.0	62.0	38
20.8	20.3	19.9	113.7	111.4	110.0	15.5	16.2	16.2	70.4	75.8	75.2	40.8	42.4	41.2	39
28.4	26.8	26.9	43.9	45.2	45.1	8.5	9.1	9.1	30.4	29.6	29.4	51.1	52.8	53.0	40
6.1	6.1	6.1	42.2	44.0	44.1	7.2	7.3	7.3	41.2	42.0	41.8	33.0	32.3	32.4	41
20.4	22.8	23.0	62.1	66.3	66.5	9.4	9.9	9.9	38.6	40.8	40.7	46.3	45.3	44.8	42
70.2	69.7	70.2	175.3	176.7	176.9	62.8	63.4	63.0	181.5	189.7	190.3	155.0	152.7	152.5	43
7.7	7.3	7.1	40.8	41.5	41.4	9.7	9.8	9.8	30.6	33.0	32.7	28.6	29.6	28.6	44
5.8	5.9	5.9	24.6	25.9	25.4	6.7	7.0	7.0	38.1	38.0	37.9	44.6	46.9	47.2	45
3.1	3.0	3.0	9.2	9.7	9.6	2.4	2.4	2.4	8.6	9.2	9.2	12.7	13.0	13.0	46
26.5	27.4	27.7	103.8	108.7	110.1	20.3	21.6	21.7	91.7	93.8	93.6	114.3	118.2	116.8	47
10.2	11.2	11.3	46.0	47.7	48.5	10.2	11.1	11.1	41.1	42.1	42.2	40.1	41.1	39.5	48
427.5	429.1	428.5	1,456.0	1,463.4	1,461.2	591.7	600.0	600.2	1,591.7	1,629.5	1,631.3	1,330.0	1,308.7	1,306.1	49
15.6	15.4	15.4	67.9	67.4	68.3	15.2	15.4	15.4	67.7	67.6	68.3	95.5	94.8	96.4	50
4.8	4.7	4.7	22.4	22.1	22.0	3.7	3.7	3.7	17.9	18.5	18.5	20.7	21.3	21.2	51
27.6	28.4	28.4	115.3	116.9	117.0	21.7	22.3	22.3	93.9	93.8	93.8	89.8	88.0	87.6	52
1.4	1.4	1.4	8.4	8.4	8.4	1.0	1.0	1.0	6.6	6.7	6.8	7.2	7.2	7.2	53
10.0	9.9	9.9	61.6	62.3	62.1	14.9	15.4	15.4	61.9	64.7	64.9	36.4	37.4	37.4	54
35.2	35.7	35.4	228.6	232.0	230.3	47.9	48.6	48.6	194.2	197.9	197.4	178.0	179.6	178.6	55
462.2	462.5	(*)	1,374.3	1,387.1	(*)	593.1	601.7	(*)	1,458.2	1,503.4	(*)	1,128.9	1,117.5	(*)	56
314.7	315.4	314.8	938.4	943.6	938.3	487.1	492.9	493.4	1,107.1	1,137.6	1,134.7	807.1	790.7	786.9	57
279.5	279.6	279.4	709.8	711.6	708.0	439.2	444.3	444.8	913.1	939.9	937.4	629.1	611.1	608.3	58
257.9	257.8	257.5	611.8	611.8	608.1	419.4	424.0	424.7	810.2	833.9	832.6	549.7	533.7	531.3	59
3.0	3.0	3.0	15.7	15.8	15.8	2.6	2.6	2.6	16.2	16.8	16.8	21.1	22.2	22.0	60
13.0	12.9	12.9	79.0	79.4	79.3	16.6	17.1	17.2	74.3	76.5	76.9	56.4	57.1	57.0	61

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
NEW YORK—Continued												
1 Rockland County ⁹	79.8	79.6	79.5	(1)	(1)	(1)	2.7	2.2	2.3	15.9	15.7	15.6
2 Syracuse	254.4	255.8	257.5	(1)	(1)	(1)	10.0	11.2	11.4	60.8	59.5	61.0
3 Utica-Rome	116.7	117.8	118.4	(1)	(1)	(1)	3.8	4.2	4.3	31.7	31.8	32.1
4 Westchester County ⁹	336.4	341.0	339.8	(1)	(1)	(1)	14.6	13.9	14.2	71.4	73.6	73.6
5 NORTH CAROLINA	2,253.8	2,305.2	2,319.2	4.8	4.9	4.8	116.6	127.0	127.0	807.1	808.1	811.6
6 Asheville	69.9	70.5	70.4	(1)	(1)	(1)	3.8	3.4	3.4	21.9	21.3	21.5
7 Charlotte-Gastonia	306.6	310.3	311.1	(1)	(1)	(1)	16.5	16.6	16.5	86.8	87.4	88.0
8 Greensboro-Winston-Salem-High Pt.	368.8	374.6	375.3	(1)	(1)	(1)	17.6	16.2	16.0	145.9	147.8	148.4
9 Raleigh-Durham	243.5	249.0	250.3	(1)	(1)	(1)	13.0	13.2	12.9	38.8	41.9	42.4
10 NORTH DAKOTA	237.6	247.2	248.8	4.9	6.1	6.2	23.2	24.5	24.9	15.7	16.8	17.1
11 Fargo-Moorhead	59.8	62.1	62.4	(2)	(2)	(2)	5.3	5.5	5.7	5.0	5.3	5.3
12 OHIO	4,403.9	4,496.6	4,473.2	32.7	32.2	32.2	201.4	206.1	208.5	1,380.5	1,379.5	1,354.5
13 Akron	265.1	270.9	267.3	.4	.4	.4	10.0	10.1	10.3	84.9	83.9	80.8
14 Canton	156.4	163.3	162.9	1.2	1.2	1.2	7.4	7.6	7.4	57.1	60.0	59.9
15 Cincinnati	600.5	620.9	619.4	.4	.4	.4	29.0	30.1	30.4	173.3	173.9	171.7
16 Cleveland	918.6	932.4	925.2	1.6	1.4	1.6	36.2	37.4	37.6	278.8	278.8	271.3
17 Columbus	492.3	510.1	510.0	.9	.9	.9	23.6	24.3	24.7	100.1	98.9	98.3
18 Dayton	353.7	362.3	357.9	.5	.5	.5	15.6	16.8	17.0	110.5	109.4	103.6
19 Toledo	300.1	307.0	305.7	.7	.6	.6	13.4	13.0	13.4	91.4	90.9	88.9
20 Youngstown-Warren	211.3	218.1	216.0	.5	.5	.5	9.3	9.7	9.7	79.5	80.6	78.7
21 OKLAHOMA	1,037.0	1,079.3	1,082.8	56.1	59.6	59.6	61.4	60.5	61.1	173.5	180.0	181.8
22 Oklahoma City	362.8	386.5	388.5	12.8	13.3	13.5	21.5	21.3	21.4	47.7	53.4	53.9
23 Tulsa	274.0	278.4	279.0	17.9	18.3	18.2	15.5	15.1	15.1	57.1	58.8	59.4
24 OREGON	1,015.1	1,047.4	1,058.3	2.2	2.3	2.3	54.4	59.0	60.3	229.7	234.2	241.0
25 Eugene-Springfield	103.3	103.9	104.7	(1)	(1)	(1)	6.2	5.7	5.9	22.5	22.0	22.7
26 Jackson County	-	-	-	-	-	-	-	-	-	8.3	8.0	8.2
27 Portland	527.1	542.9	545.7	(1)	(1)	(1)	28.8	28.2	28.9	110.1	117.3	118.1
28 Salem	91.7	89.4	94.7	(1)	(1)	(1)	5.1	5.2	5.3	21.0	16.0	20.5
29 PENNSYLVANIA	4,709.6	4,699.4	4,690.3	54.1	52.3	52.0	220.7	205.7	205.5	1,375.1	1,374.3	1,366.4
30 Allentown-Bethlehem-Easton	261.1	260.0	260.6	(1)	(1)	(1)	10.4	8.8	8.9	110.2	109.6	110.6
31 Altoona	52.8	52.4	52.4	(1)	(1)	(1)	2.5	2.1	2.1	12.9	12.9	13.1
32 Delaware Valley ¹⁰	1,550.8	1,560.2	1,553.6	(1)	(1)	(1)	61.0	59.9	59.9	378.0	384.5	381.0
33 Erie	115.2	117.5	117.2	(1)	(1)	(1)	4.6	3.8	3.7	44.2	45.0	45.3
34 Harrisburg	218.1	215.8	216.0	(1)	(1)	(1)	11.0	8.5	8.6	42.5	43.3	43.9
35 Johnstown	89.6	90.0	90.4	9.8	8.9	9.0	3.3	3.1	3.2	20.7	20.4	20.9
36 Lancaster	148.4	149.6	149.8	(1)	(1)	(1)	8.7	8.8	8.6	60.5	60.1	60.4
37 Northeast Pennsylvania	245.2	239.6	241.2	1.2	1.2	1.2	13.7	12.8	13.1	73.3	68.4	69.7
38 Philadelphia SMSA	1,877.3	1,889.9	1,883.9	(1)	(1)	(1)	76.3	75.1	74.9	448.5	454.3	451.5
39 Philadelphia City ¹¹	800.5	797.7	798.8	(1)	(1)	(1)	19.5	19.1	19.3	149.9	146.7	146.5
40 Pittsburgh	950.0	949.4	937.2	12.2	11.4	11.2	55.1	51.5	51.8	253.1	258.0	246.7
41 Reading	133.9	138.1	138.3	(1)	(1)	(1)	5.7	5.6	5.7	52.5	53.4	53.7
42 Scranton ¹²	88.4	85.4	86.8	(1)	(1)	(1)	2.3	2.2	2.4	28.7	26.7	27.7
43 Wilkes-Barre-Hazleton ¹³	127.7	124.2	124.1	1.1	1.1	1.1	9.8	8.9	9.1	40.3	37.1	37.3
44 Williamsport	50.3	49.5	49.7	(1)	(1)	(1)	2.1	2.2	2.3	18.6	18.0	17.9
45 York	151.0	151.2	152.0	(1)	(1)	(1)	7.6	7.2	7.0	64.1	64.3	65.4
46 RHODE ISLAND	405.1	400.1	407.2	(1)	(1)	(1)	15.6	14.3	15.2	137.0	131.6	136.2
47 Providence-Warwick-Pawtucket	415.0	409.5	417.4	(1)	(1)	(1)	15.8	14.5	15.4	153.4	147.0	152.4
48 SOUTH CAROLINA	1,135.1	1,165.1	1,167.3	1.9	2.0	2.0	71.3	68.6	68.3	391.0	391.4	394.1
49 Charleston-North Charleston	138.8	144.6	144.0	(1)	(1)	(1)	11.1	11.1	11.1	18.9	19.3	19.6
50 Columbia	167.7	171.4	171.6	(1)	(1)	(1)	8.8	8.2	8.0	26.1	26.7	26.9
51 Greenville-Spartanburg	255.0	255.0	256.8	(1)	(1)	(1)	16.8	16.2	16.5	104.9	103.7	104.9
52 SOUTH DAKOTA	238.5	239.3	238.4	2.6	2.9	3.0	14.7	15.2	15.1	24.7	26.1	26.5
53 Rapid City	29.5	29.6	29.8	(2)	(2)	(2)	3.2	2.8	2.8	7.7	7.7	7.6
54 Sioux Falls	52.7	52.9	52.6	(2)	(2)	(2)	4.2	4.1	4.1	7.1	7.6	7.7
55 TENNESSEE	1,713.2	1,715.0	1,720.2	10.8	10.5	11.1	92.5	97.3	97.4	527.1	510.5	516.4
56 Chattanooga	167.8	165.9	166.6	1.4	1.3	1.4	7.6	7.1	7.1	55.8	53.7	54.3
57 Knoxville	197.4	196.9	196.0	1.7	1.6	1.6	12.9	12.5	12.6	53.9	53.0	53.9
58 Memphis	350.3	353.7	352.9	.2	.2	.2	13.7	14.3	14.5	64.6	63.4	62.9
59 Nashville-Davidson	348.9	350.9	351.7	(1)	(1)	(1)	21.6	21.8	22.0	81.9	80.5	80.7

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	
3.4	3.4	3.4	16.8	17.4	17.4	2.4	2.5	2.5	17.5	17.5	17.6	21.1	20.9	20.7	1
14.6	14.9	15.0	58.1	59.3	59.1	15.3	15.7	15.6	48.1	47.8	48.4	47.5	47.4	47.0	2
3.9	4.0	4.0	22.0	22.2	22.2	5.6	5.6	5.6	19.9	20.9	20.8	29.9	29.2	29.5	3
17.5	17.8	17.8	78.0	79.2	79.2	17.0	17.4	17.2	82.9	86.1	84.8	55.0	53.1	53.0	4
109.0	114.0	114.5	444.5	460.8	465.6	87.0	90.2	90.7	325.6	339.3	340.5	359.2	360.9	364.5	5
3.5	3.5	3.5	13.9	14.2	14.3	2.3	2.4	2.4	13.6	14.4	14.3	10.9	11.3	11.0	6
29.1	29.7	29.7	75.4	78.0	78.2	19.9	20.3	20.2	46.7	46.9	46.7	32.2	31.4	31.8	7
20.6	21.2	21.2	74.8	76.8	77.3	17.4	17.8	17.8	54.1	55.2	55.1	38.4	39.6	39.5	8
12.3	13.4	13.4	47.8	48.6	49.0	14.6	15.0	15.1	51.7	53.7	53.9	65.3	63.2	63.6	9
15.0	16.1	16.3	67.7	69.1	70.1	10.7	11.2	11.2	45.4	47.3	47.5	55.0	56.1	55.5	10
4.1	4.4	4.4	19.0	19.3	19.6	3.7	3.9	3.9	12.4	13.1	13.1	10.3	10.6	10.4	11
223.8	237.8	238.8	969.0	994.2	995.3	194.4	205.3	205.1	785.5	829.3	831.6	616.6	612.0	607.1	12
13.9	15.0	15.1	59.5	62.5	62.6	9.3	9.7	9.7	48.7	50.8	51.1	38.6	38.6	37.5	13
6.9	7.5	7.5	34.5	35.7	35.8	5.6	6.0	6.0	27.3	28.9	28.8	16.6	16.3	16.3	14
33.6	35.9	36.0	137.9	142.9	143.2	30.8	32.4	32.5	118.2	128.9	129.4	77.3	76.5	76.0	15
48.0	49.8	49.8	210.8	217.2	217.7	46.3	47.3	47.3	179.5	190.7	191.4	117.4	109.7	108.4	16
24.9	26.9	27.2	118.6	124.5	125.1	34.8	37.4	37.3	97.1	102.7	102.7	92.2	94.6	93.9	17
13.0	14.1	14.2	75.2	78.0	78.2	12.7	13.3	13.3	65.1	68.7	69.6	61.1	61.5	61.6	18
20.6	21.6	21.7	68.5	70.8	71.1	10.2	10.7	10.6	56.4	59.3	59.6	38.9	40.1	39.8	19
9.8	10.5	10.4	46.6	48.7	48.6	6.8	6.9	7.0	35.8	37.4	37.5	23.0	23.8	23.6	20
62.0	64.4	64.0	248.5	255.3	256.8	51.5	53.7	53.8	174.3	184.8	186.3	209.7	221.0	219.4	21
21.7	22.8	22.8	88.1	94.8	95.9	23.3	24.4	24.5	62.4	67.8	68.0	85.3	88.7	88.5	22
20.7	21.2	21.1	67.6	67.2	67.4	13.6	14.3	14.4	52.9	54.8	54.7	28.7	28.7	28.7	23
57.7	60.7	60.7	249.3	258.9	261.2	65.3	68.0	68.7	174.8	178.4	178.3	181.7	185.9	185.8	24
5.2	5.5	5.5	25.7	25.7	25.6	5.3	5.4	5.3	18.8	19.1	19.0	19.6	20.5	20.7	25
34.4	35.9	35.8	136.8	136.9	137.8	41.1	43.2	43.8	101.5	103.5	103.8	74.4	77.9	77.5	26
3.2	3.4	3.4	18.2	18.7	18.7	5.3	5.6	5.5	13.6	13.7	13.7	25.3	26.8	27.6	27
262.7	266.4	266.9	967.2	956.9	956.1	228.7	239.6	239.7	886.9	911.7	911.6	714.2	692.5	692.1	28
13.7	14.2	14.3	49.7	49.2	49.1	8.4	8.7	8.7	38.8	40.0	40.0	29.9	29.5	29.0	29
8.2	7.7	7.7	11.8	12.0	12.3	1.3	1.3	1.3	8.6	8.9	8.8	7.5	7.5	7.1	30
83.3	82.9	82.8	322.7	323.4	319.3	104.4	108.1	107.8	357.3	363.4	362.5	244.1	238.0	240.3	31
5.1	5.2	5.1	23.0	24.5	24.5	4.5	4.5	4.4	19.7	19.7	19.6	14.1	14.8	14.6	32
16.1	16.1	16.2	44.4	43.9	43.8	12.0	11.8	11.9	37.0	36.7	36.6	55.1	55.5	55.0	33
5.3	5.1	5.1	16.9	17.0	17.1	3.6	3.7	3.8	14.9	15.5	15.5	15.1	16.3	15.8	34
6.5	6.7	6.7	33.4	34.2	34.2	5.2	5.4	5.4	20.3	20.9	21.0	13.8	13.5	13.5	35
13.3	13.3	13.5	51.8	51.2	51.5	9.2	9.6	9.7	42.6	42.9	42.5	40.1	40.2	40.0	36
98.8	98.6	98.3	405.8	407.3	402.9	119.8	124.1	123.9	422.7	430.5	430.0	305.4	300.0	302.4	37
56.4	56.9	57.0	148.8	149.8	148.7	68.6	70.3	70.1	197.5	201.6	200.6	159.8	153.3	156.6	38
57.6	58.5	58.6	209.8	214.6	214.4	43.9	45.3	44.9	195.5	195.2	194.9	122.8	114.9	114.7	39
5.9	6.4	6.4	26.3	27.7	27.7	5.9	6.1	6.1	22.3	23.4	23.4	15.3	15.5	15.3	40
4.5	4.6	4.6	19.5	19.1	19.2	3.3	3.4	3.4	16.8	16.7	16.6	13.3	12.7	12.9	41
6.8	6.8	6.9	27.3	26.7	26.7	5.1	5.3	5.3	17.7	17.9	17.8	19.6	20.4	19.9	42
2.5	2.5	2.5	10.6	10.2	10.3	1.9	2.0	2.0	7.4	7.8	7.9	7.2	6.8	6.8	43
7.0	6.7	6.7	31.1	31.5	31.5	4.0	4.3	4.3	19.5	19.6	19.7	17.7	17.6	17.4	44
13.5	13.6	13.5	81.3	79.9	80.5	20.0	20.5	20.6	76.7	79.1	79.2	61.0	61.1	62.0	45
13.4	13.5	13.5	81.6	80.4	80.8	20.2	20.7	20.8	73.4	75.6	75.8	57.2	57.8	58.7	46
49.9	52.4	52.0	216.5	225.8	226.3	44.9	47.1	47.2	148.2	161.5	161.2	211.4	216.3	216.2	47
8.5	8.9	8.7	30.6	31.1	31.2	6.0	6.3	6.2	21.4	23.3	23.2	42.3	44.6	44.0	48
8.7	9.3	9.3	37.5	38.2	38.3	13.1	13.8	13.8	25.0	25.6	25.7	48.5	49.6	49.6	49
10.3	10.3	10.2	49.8	49.6	49.9	8.8	8.8	8.8	32.6	34.7	34.7	31.8	31.7	31.8	50
13.2	13.3	13.2	65.2	63.3	63.2	11.2	11.7	12.0	50.8	50.8	52.2	56.1	56.0	53.2	51
1.9	1.9	1.9	8.6	9.5	9.5	1.5	1.4	1.5	6.6	6.0	6.1	5.0	5.3	5.4	52
4.8	4.8	4.9	15.6	15.3	14.7	3.4	3.0	3.1	11.5	11.8	11.8	6.1	6.3	6.3	53
83.5	84.0	83.8	368.3	368.5	368.7	73.9	75.9	76.2	267.5	274.0	273.6	289.6	294.3	293.0	54
6.8	6.9	6.9	30.7	30.5	30.2	9.4	9.7	9.8	26.2	26.0	26.1	29.9	30.7	30.8	55
7.7	7.9	7.9	41.8	41.7	41.5	7.9	8.2	8.2	30.3	30.7	30.7	41.2	41.3	39.6	56
25.7	26.5	26.4	94.4	94.1	94.2	19.1	19.4	19.2	68.2	70.7	70.7	64.4	65.1	64.8	57
19.1	19.6	19.6	79.0	80.6	80.9	21.9	22.7	22.7	64.8	65.0	64.6	60.6	60.7	61.2	58

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

State and area	Total			Mining			Construction			Manufacturing		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
1 TEXAS	5,263.0	5,510.6	5,509.4	185.8	198.1	199.7	395.8	412.2	413.9	959.5	1,002.3	998.9
2 Amarillo	71.8	73.0	73.1	(1)	(1)	(1)	5.0	5.5	5.5	8.6	9.6	9.7
3 Austin	218.4	226.3	225.5	(1)	(1)	(1)	13.3	14.3	14.7	26.5	27.7	28.0
4 Beaumont-Port Arthur-Orange	145.2	142.7	143.3	(1)	(1)	(1)	14.6	14.1	15.0	41.7	41.4	41.4
5 Corpus Christi	111.2	114.4	113.8	5.0	5.2	5.2	11.8	13.3	13.5	13.9	14.2	13.8
6 Dallas-Fort Worth	1,286.3	1,366.8	1,364.9	19.5	21.3	21.5	71.7	79.8	79.1	285.4	304.6	300.6
7 El Paso	150.0	155.2	154.6	(1)	(1)	(1)	9.1	7.9	7.8	30.3	31.6	31.0
8 Galveston-Texas City	69.3	68.0	67.9	(1)	(1)	(1)	4.8	4.6	4.8	12.1	12.2	12.1
9 Houston	1,275.3	1,321.3	1,318.6	62.1	62.2	62.7	142.3	141.9	140.2	210.9	217.9	217.8
10 Lubbock	85.9	86.7	87.2	(1)	(1)	(1)	5.6	6.1	5.9	13.5	12.4	12.4
11 San Antonio	364.3	370.3	369.7	1.9	1.9	1.9	24.6	25.2	25.3	47.0	47.2	47.3
12 Waco	66.0	67.8	67.8	(1)	(1)	(1)	3.9	3.4	3.4	16.2	17.2	17.2
13 Wichita Falls	48.9	49.9	49.9	2.7	2.5	2.5	2.5	2.9	2.9	9.1	9.5	9.4
14 UTAH	525.5	550.6	556.5	16.9	18.0	18.0	38.4	39.8	40.4	81.7	85.4	87.3
15 Salt Lake City-Ogden	376.5	392.3	396.3	7.2	7.6	7.6	26.4	27.3	27.6	55.1	57.6	58.5
16 VERMONT	192.1	195.7	196.8	.8	.8	.8	11.4	10.4	10.9	48.8	49.6	50.5
17 Burlington ¹⁴	50.3	52.7	52.9	-	-	-	-	-	-	13.0	13.8	13.9
18 Springfield ¹⁴	14.2	14.8	14.7	-	-	-	-	-	-	5.9	6.2	6.2
19 VIRGINIA	2,067.4	2,118.3	2,120.6	21.5	25.5	25.2	144.7	148.2	148.2	411.4	410.5	414.1
20 Bristol	27.7	27.7	28.0	(1)	(1)	(1)	1.6	1.7	1.7	9.6	9.4	9.7
21 Lynchburg	69.1	72.2	72.3	(1)	(1)	(1)	4.0	4.2	4.1	29.1	29.8	29.9
22 Newport News-Hampton	147.7	150.5	149.7	(1)	(1)	(1)	8.7	8.1	8.2	33.7	33.3	33.1
23 Norfolk-Virginia Beach-Poitsmouth	280.2	282.6	282.2	(1)	(1)	(1)	20.8	20.4	20.4	29.9	29.6	29.8
24 Northern Virginia ¹⁵	413.4	421.2	420.5	.3	.4	.4	30.4	30.2	30.3	15.7	16.5	16.5
25 Petersburg-Colonial Hgts.-Hopewell	46.3	48.2	47.8	(1)	(1)	(1)	2.7	2.8	2.7	11.9	11.5	11.5
26 Richmond	320.5	320.7	322.0	.4	.4	.4	20.3	19.8	19.5	54.4	54.6	55.3
27 Roanoke	102.6	105.1	104.7	.2	.1	.1	6.7	6.3	6.4	21.4	20.9	20.8
28 WASHINGTON	1,517.7	1,608.9	(*)	3.0	3.2	(*)	104.0	114.3	(*)	290.5	314.9	(*)
29 Seattle-Everett	712.0	762.1	(*)	(1)	(1)	(*)	44.8	51.1	(*)	152.5	167.2	(*)
30 Spokane	124.8	126.5	(*)	(1)	(1)	(*)	9.3	8.3	(*)	18.2	18.5	(*)
31 Tacoma	133.9	142.7	(*)	(1)	(1)	(*)	8.9	10.0	(*)	21.6	21.9	(*)
32 WEST VIRGINIA	623.1	630.2	630.2	67.3	69.4	68.7	43.4	40.4	41.7	126.3	122.6	123.5
33 Charleston	110.8	109.0	109.7	6.7	6.6	6.6	7.5	5.3	6.7	19.7	19.2	19.0
34 Huntington-Ashland	103.5	104.8	104.9	.6	1.0	1.0	6.6	7.0	7.1	29.5	28.9	29.0
35 Parkersburg-Marietta	57.0	57.4	57.7	.5	.5	.5	3.8	4.2	4.3	18.2	17.9	18.2
36 Wheeling	66.1	64.5	65.1	7.1	6.8	6.8	4.3	3.0	3.6	13.7	13.4	13.5
37 WISCONSIN	1,903.4	1,970.0	1,974.8	3.0	3.1	3.1	93.6	95.2	95.9	575.1	580.3	582.6
38 Appleton-Oshkosh	123.1	127.6	128.2	(1)	(1)	(1)	6.8	7.4	7.4	48.9	50.4	50.8
39 Eau Claire	44.0	44.5	44.5	(1)	(1)	(1)	2.0	1.8	1.9	9.3	8.6	8.6
40 Green Bay	76.3	77.3	78.0	(1)	(1)	(1)	4.1	3.9	3.9	22.4	22.3	22.6
41 Kenosha	43.8	43.2	45.0	(1)	(1)	(1)	1.5	1.5	1.5	18.4	17.7	19.3
42 La Crosse	40.3	41.7	40.1	(1)	(1)	(1)	1.6	1.9	2.1	10.6	10.9	9.0
43 Madison	158.1	162.3	163.3	(1)	(1)	(1)	8.6	8.5	8.7	20.2	18.7	19.2
44 Milwaukee	650.7	675.0	676.5	(1)	(1)	(1)	25.7	26.3	26.6	209.8	211.7	213.5
45 Racine	69.6	71.7	71.7	(1)	(1)	(1)	2.8	2.5	2.5	30.1	31.6	31.8
46 WYOMING	198.5	215.0	218.9	29.4	34.1	34.9	24.5	27.6	28.1	9.6	10.8	11.0
47 Casper	37.1	46.1	47.1	7.6	10.9	11.0	4.1	6.3	6.3	1.7	1.9	2.0
48 Cheyenne	26.3	27.7	27.7	(1)	(1)	(1)	2.2	3.0	3.0	1.5	1.5	1.6

1 Combined with services.
2 Combined with construction.
3 Revised to 1979 benchmark; not strictly comparable with previously published data.
4 Area included in Chicago-Gary Standard Consolidated Statistical area.
5 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.
6 Subarea of New York-Northeastern New Jersey.
7 Subarea of Rochester Standard Metropolitan Statistical Area.
8 Area included in New York and Nassau-Suffolk combined SMSA's.
9 Subarea of New York Standard Metropolitan Statistical Area.
10 Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

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

SOURCE—Cooperating State agencies listed on inside back cover.

**ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT**

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

(In thousands)

Transportation and public utilities			Wholesale and retail trade			Finance, insurance, and real estate			Services			Government			
AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	
338.4	354.8	356.9	1,287.2	1,334.8	1,336.7	300.9	313.2	314.4	899.4	935.6	939.9	896.0	959.6	949.0	1
6.8	6.9	7.0	22.3	21.7	21.6	3.6	3.6	3.6	14.2	14.8	14.6	11.3	10.9	11.1	2
6.7	6.7	6.6	44.3	47.1	47.4	13.3	13.4	13.5	35.5	37.6	37.5	74.8	79.5	77.8	3
10.9	11.1	10.8	31.9	30.0	29.9	5.4	5.5	5.5	23.4	23.8	23.9	17.3	16.8	16.8	4
6.6	6.3	6.7	26.6	26.5	26.3	5.2	5.4	5.5	17.7	18.5	18.2	24.4	24.7	24.6	5
84.0	89.9	90.2	340.9	360.4	364.1	96.1	100.7	101.3	227.4	242.8	242.7	161.3	167.3	165.4	6
10.4	10.6	10.6	37.6	39.0	39.1	6.9	7.3	7.4	24.9	25.6	25.7	30.8	33.2	33.0	7
6.9	6.8	6.7	13.4	12.8	12.7	4.5	4.6	4.6	10.9	10.5	10.4	16.7	16.5	16.6	8
95.0	100.2	99.5	303.5	314.8	313.7	76.5	80.7	80.6	247.4	259.4	260.0	137.6	144.2	144.1	9
4.9	4.9	5.0	25.5	25.4	25.8	4.4	4.6	4.6	15.2	15.8	15.8	16.8	17.5	17.7	10
16.0	17.0	16.9	91.3	93.9	93.5	24.7	25.0	24.9	68.3	69.8	69.9	90.5	90.3	90.0	11
3.2	3.3	3.3	15.1	15.5	15.5	3.8	4.1	4.2	12.6	13.2	13.2	11.2	11.1	11.0	12
2.4	2.4	2.4	12.2	12.1	12.3	2.2	2.3	2.3	7.4	7.6	7.5	10.4	10.6	10.6	13
33.2	34.9	35.3	129.2	133.8	135.2	24.9	26.4	26.5	91.4	99.4	100.6	110.0	112.8	113.2	14
26.3	27.5	27.8	95.6	99.6	100.4	20.2	21.5	21.7	64.0	69.7	70.8	81.7	81.6	81.9	15
8.7	8.9	9.0	40.4	42.2	42.2	7.5	7.9	7.8	43.1	43.5	43.7	31.4	32.4	31.9	16
2.3	2.3	2.2	10.9	11.8	11.8	-	-	-	10.5	11.2	11.2	-	-	-	17
.7	.7	.7	2.2	2.3	2.3	-	-	-	2.8	2.8	2.8	-	-	-	18
104.4	114.0	113.8	435.7	443.3	444.3	99.6	103.5	103.6	371.7	377.9	376.5	478.4	495.4	494.9	19
1.0	1.0	1.0	6.3	6.4	6.4	.9	.9	.9	3.2	3.4	3.4	5.1	4.9	4.9	20
2.5	2.7	2.7	11.3	11.9	11.9	3.1	3.5	3.5	9.5	10.4	10.5	9.6	9.7	9.7	21
5.0	5.1	5.1	27.7	28.2	28.1	5.0	5.2	5.1	28.1	29.9	29.6	39.5	40.7	40.5	22
17.3	18.2	18.1	69.0	70.5	70.7	14.8	15.0	14.8	52.2	51.6	51.8	76.2	77.3	76.6	23
27.8	29.1	29.0	97.7	98.9	98.6	25.6	26.7	26.7	101.1	104.7	104.7	114.8	114.7	114.3	24
1.3	1.6	1.6	9.0	8.7	8.8	1.3	1.3	1.3	5.8	6.0	6.1	14.3	16.3	15.8	25
19.2	20.2	20.2	73.4	71.7	71.4	25.0	26.3	26.4	57.1	57.7	57.7	70.7	70.0	71.1	26
6.9	10.0	10.0	25.6	26.0	25.9	5.8	6.0	5.9	19.1	19.1	19.1	16.9	16.7	16.5	27
86.9	94.6	(*)	375.4	393.5	(*)	86.6	92.5	(*)	283.8	303.6	(*)	287.5	292.3	(*)	28
47.8	51.7	(*)	175.4	184.1	(*)	50.6	52.8	(*)	132.9	143.1	(*)	108.0	112.1	(*)	29
8.0	7.8	(*)	34.9	36.2	(*)	8.1	8.1	(*)	27.5	28.3	(*)	18.8	19.3	(*)	30
6.6	7.1	(*)	32.5	34.5	(*)	6.8	7.1	(*)	28.0	29.3	(*)	29.5	32.8	(*)	31
39.6	42.8	43.9	126.6	129.4	131.0	20.6	21.2	21.3	88.6	89.4	90.0	110.7	114.9	110.0	32
9.5	9.8	9.8	25.5	25.6	25.8	4.9	4.9	5.0	18.5	18.7	18.7	18.5	18.9	18.3	33
9.2	9.6	9.6	22.7	23.2	23.3	3.7	3.7	3.7	14.2	14.4	14.4	17.0	17.0	16.7	34
2.6	2.6	2.6	12.1	12.2	12.2	1.9	1.9	1.9	8.4	8.2	8.2	9.6	10.0	9.9	35
3.8	3.8	3.8	14.7	15.1	15.1	2.4	2.5	2.5	12.8	12.5	12.6	7.3	7.5	7.3	36
86.2	88.3	88.5	437.4	463.4	466.8	87.6	92.0	92.3	344.4	364.4	367.8	276.1	283.5	277.8	37
4.0	4.0	4.1	25.1	25.9	26.3	4.8	5.2	5.2	19.6	20.4	20.5	13.9	14.3	14.0	38
2.5	2.6	2.6	11.7	12.6	12.7	1.4	1.4	1.5	9.1	9.7	9.7	7.9	7.8	7.7	39
5.2	5.5	5.4	19.2	20.1	20.4	2.7	2.8	2.8	13.0	13.1	13.4	9.7	9.6	9.4	40
2.4	1.6	1.7	8.3	8.6	8.6	.9	1.0	1.0	7.0	7.4	7.5	5.2	5.5	5.4	41
2.4	2.4	2.4	10.8	11.1	11.3	.9	1.0	1.0	8.7	9.2	9.2	5.3	5.2	5.1	42
5.6	5.8	5.9	35.0	36.1	36.6	11.9	12.9	13.0	27.4	29.1	29.3	49.5	51.2	50.7	43
32.0	33.3	33.6	147.2	154.7	155.2	35.7	37.0	37.0	129.7	139.7	139.8	70.6	72.3	70.7	44
2.3	2.4	2.4	12.7	13.2	13.2	2.2	2.3	2.3	10.9	11.1	11.1	8.6	8.6	8.5	45
15.0	17.2	17.4	46.3	50.2	51.6	6.7	7.2	7.3	30.6	32.1	33.0	36.4	35.8	35.6	46
2.6	2.8	2.8	10.0	13.0	13.3	1.4	1.5	1.5	5.2	5.4	5.6	4.5	4.3	4.6	47
3.6	3.8	3.7	6.8	7.8	8.1	1.6	1.5	1.5	4.3	3.6	3.4	6.3	6.5	6.4	48

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1978	Sept. 1978	July 1979	Aug. ^P 1979 ^P	Sept. ^P 1979 ^P	Aug. 1978	Sept. 1978	July 1979	Aug. ^P 1979 ^P	Sept. ^P 1979 ^P
-	TOTAL PRIVATE	\$206.70	\$208.94	\$221.76	\$222.84	\$224.55	\$5.71	\$5.82	\$6.16	\$6.19	\$6.29
-	MINING	337.31	345.83	355.28	365.49	375.38	7.79	7.95	8.52	8.48	8.59
10	METAL MINING	341.88	357.81	378.39	390.10	-	8.40	8.56	9.32	9.40	-
101	Iron ores	361.96	373.05	405.34	415.47	-	8.68	8.84	9.56	9.73	-
102	Copper ores	341.75	362.75	416.78	410.98	-	8.63	8.72	9.67	9.67	-
11, 12	COAL MINING	386.80	392.62	391.03	412.40	-	9.67	9.84	(*)	10.31	-
12	BITUMINOUS COAL AND LIGNITE MINING ...	387.60	393.81	392.15	413.60	-	9.69	9.87	(*)	10.34	-
13	OIL AND GAS EXTRACTION	315.70	326.24	337.90	342.21	-	7.00	7.17	7.75	7.69	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	328.02	345.24	361.74	358.94	-	8.02	8.22	8.78	8.67	-
138	Oil and gas field services	311.14	317.51	328.55	335.71	-	6.62	6.77	7.35	7.33	-
14	NONMETALLIC MINERALS, EXCEPT FUELS ...	299.46	299.38	316.23	322.00	-	6.44	6.48	6.95	7.00	-
142	Crushed and broken stone	299.08	301.11	316.24	324.08	-	6.27	6.26	6.70	6.78	-
-	CONSTRUCTION	329.99	332.11	348.35	354.16	360.24	8.73	8.88	9.24	9.32	9.48
15	GENERAL BUILDING CONTRACTORS	294.48	294.28	312.54	315.73	-	8.09	8.22	8.61	8.65	-
152	Residential building construction	279.36	277.89	295.20	297.83	-	7.76	7.85	8.20	8.25	-
153	Operative builders	262.55	259.15	272.12	281.42	-	7.02	7.10	7.58	7.71	-
154	Nonresidential building construction	317.58	318.56	338.37	341.14	-	8.63	8.80	9.22	9.22	-
16	HEAVY CONSTRUCTION CONTRACTORS	340.29	346.08	359.31	370.09	-	8.18	8.40	8.70	8.77	-
161	Highway and street construction	341.39	340.20	364.99	376.47	-	7.83	7.93	8.41	8.46	-
162	Heavy construction, except highway	339.80	349.40	355.69	366.87	-	3.39	8.67	8.87	8.97	-
17	SPECIAL TRADE CONTRACTORS	346.89	348.50	362.73	367.41	-	9.35	9.47	9.83	9.93	-
171	Plumbing, heating, air conditioning	362.70	369.19	379.62	381.27	-	9.57	9.69	9.99	10.06	-
172	Painting, paper hanging, decorating	316.39	314.35	318.62	322.37	-	8.74	8.83	8.95	9.03	-
173	Electrical work	400.13	401.57	424.27	427.39	-	10.42	10.54	11.02	11.13	-
174	Masonry, stonework, and plastering	321.28	318.29	337.92	345.68	-	9.05	9.12	9.60	9.71	-
175	Carpentering and flooring	299.65	306.09	311.17	315.76	-	8.37	8.55	8.79	8.82	-
176	Roofing and sheet metal work	283.66	280.06	296.67	298.94	-	8.27	8.36	8.70	8.69	-
-	MANUFACTURING	249.27	255.60	267.73	267.60	272.96	6.17	6.28	6.71	6.69	6.79
24, 25, 32-39	DURABLE GOODS	268.71	277.79	288.86	287.65	293.54	6.57	6.71	7.15	7.12	7.23
20-23, 26-31	NONDURABLE GOODS	220.18	223.51	236.38	237.98	240.95	5.56	5.63	6.03	6.04	6.10
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	226.63	229.60	245.46	249.20	255.10	5.68	5.74	6.23	6.23	6.33
241	Logging camps and logging contractors	294.26	306.06	331.97	333.66	-	7.32	7.52	8.32	8.30	-
242	Sawmills and planing mills	241.31	242.76	262.68	263.63	-	5.90	5.95	6.47	6.43	-
2421	Sawmills and planing mills, general	256.05	256.44	276.62	279.34	-	6.23	6.27	6.83	6.78	-
2426	Hardwood dimension and flooring	160.80	163.22	175.80	174.87	-	4.00	4.04	4.33	4.35	-
243	Millwork, plywood, and structural members	222.32	224.07	233.92	239.37	-	5.60	5.63	6.06	6.06	-
2431	Millwork	213.84	214.09	221.54	223.69	-	5.40	5.42	5.83	5.81	-
2434	Wood kitchen cabinets	202.00	206.92	200.38	208.90	-	5.14	5.16	5.46	5.44	-
2435	Hardwood veneer and plywood	178.15	178.36	189.37	192.32	-	4.51	4.55	4.77	4.82	-
2436	Softwood veneer and plywood	284.62	286.63	306.83	317.65	-	7.08	7.13	7.69	7.71	-
244	Wooden containers	158.12	158.30	169.93	172.66	-	4.15	4.21	4.46	4.52	-
245	Wood buildings and mobile homes	204.34	206.27	210.74	217.17	-	5.28	5.33	5.59	5.70	-
2451	Mobile homes	201.17	202.69	206.82	216.22	-	5.28	5.32	5.53	5.69	-
249	Miscellaneous wood products	185.00	187.53	200.80	204.62	-	4.66	4.70	5.02	5.04	-
25	FURNITURE AND FIXTURES	186.44	188.02	191.52	195.84	198.01	4.72	4.76	5.04	5.10	5.17
251	Household furniture	174.00	174.33	178.42	183.94	-	4.45	4.47	4.72	4.79	-
2511	Wood household furniture	163.15	161.87	169.40	171.94	-	4.12	4.14	4.40	4.42	-
2512	Upholstered household furniture	181.45	184.99	181.77	191.11	-	4.75	4.78	4.98	5.11	-
2514	Metal household furniture	175.41	175.95	190.51	192.27	-	4.58	4.57	4.91	5.02	-
2515	Mattresses and bedspings	200.88	202.36	198.32	207.97	-	5.06	5.11	5.36	5.43	-
252	Office furniture	207.36	211.82	211.58	219.35	-	5.12	5.23	5.37	5.47	-
253	Public building and related furniture	207.56	217.04	183.81	196.13	-	5.05	5.18	5.12	5.23	-
254	Partitions and fixtures	224.40	229.64	238.70	243.82	-	5.61	5.67	6.20	6.22	-
259	Miscellaneous furniture and fixtures	207.95	206.06	211.50	190.40	-	5.16	5.23	5.61	5.60	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979	Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979
-	TOTAL PRIVATE	36.2	35.9	36.0	36.0	35.7	-	-	-	-	-
-	MINING	43.3	43.5	41.7	43.1	43.7	-	-	-	-	-
10	METAL MINING	40.7	41.8	40.6	41.5	-	-	-	-	-	-
101	Iron ores	41.7	42.2	42.4	42.7	-	-	-	-	-	-
102	Copper ores	39.6	41.6	43.1	42.5	-	-	-	-	-	-
11, 12	COAL MINING	40.0	39.9	37.1	(*)	-	-	-	-	-	-
12	BITUMINOUS COAL AND LIGNITE MINING	40.0	39.9	37.1	(*)	-	-	-	-	-	-
13	OIL AND GAS EXTRACTION	45.1	45.5	43.6	44.5	-	-	-	-	-	-
131, 2	Crude petroleum, natural gas, and natural gas liquids	40.9	42.0	41.2	41.4	-	-	-	-	-	-
138	Oil and gas field services	47.0	46.9	44.7	45.8	-	-	-	-	-	-
14	NONMETALLIC MINERALS, EXCEPT FUELS	46.5	46.2	45.5	46.0	-	-	-	-	-	-
142	Crushed and broken stone	47.7	48.1	47.2	47.8	-	-	-	-	-	-
-	CONSTRUCTION	37.8	37.4	37.7	38.0	38.0	-	-	-	-	-
15	GENERAL BUILDING CONTRACTORS	36.4	35.8	36.3	36.5	-	-	-	-	-	-
152	Residential building construction	36.0	35.4	36.0	36.1	-	-	-	-	-	-
153	Operative builders	37.4	36.5	35.9	36.5	-	-	-	-	-	-
154	Nonresidential building construction	36.8	36.2	36.7	37.0	-	-	-	-	-	-
16	HEAVY CONSTRUCTION CONTRACTORS	41.6	41.2	41.3	42.2	-	-	-	-	-	-
161	Highway and street construction	43.6	42.9	43.4	44.5	-	-	-	-	-	-
162	Heavy construction, except highway	40.5	40.3	40.1	40.9	-	-	-	-	-	-
17	SPECIAL TRADE CONTRACTORS	37.1	36.8	36.9	37.0	-	-	-	-	-	-
171	Plumbing, heating, air conditioning	37.9	38.1	38.0	37.9	-	-	-	-	-	-
172	Painting, paper hanging, decorating	36.2	35.6	35.6	35.7	-	-	-	-	-	-
173	Electrical work	38.4	38.1	38.5	38.4	-	-	-	-	-	-
174	Masonry, stonework, and plastering	35.5	34.9	35.2	35.6	-	-	-	-	-	-
175	Carpentering and flooring	35.8	35.8	35.4	35.8	-	-	-	-	-	-
176	Roofing and sheet metal work	34.3	33.5	34.1	34.4	-	-	-	-	-	-
-	MANUFACTURING	40.4	40.7	39.9	40.0	40.2	3.6	3.9	3.2	3.3	3.6
24, 25, 32-39	DURABLE GOODS	40.9	41.4	40.4	40.4	40.6	3.7	4.2	3.4	3.4	3.6
20-23, 26-31	NONDURABLE GOODS	39.6	39.7	39.2	39.4	39.5	3.4	3.6	3.0	3.2	3.5
	DURABLE GOODS										
24	LUMBER AND WOOD PRODUCTS	39.9	40.0	39.4	40.0	40.3	3.9	3.9	3.4	3.7	-
241	Logging camps and logging contractors	40.2	40.7	39.9	40.2	-	4.7	4.9	4.0	4.9	-
242	Sawmills and planing mills	40.9	40.8	40.6	41.0	-	4.8	4.7	4.3	4.6	-
2421	Sawmills and planing mills, general	41.1	40.9	40.5	41.2	-	5.1	4.9	4.7	4.9	-
2426	Hardwood dimension and flooring	40.2	40.4	40.6	40.2	-	4.0	3.9	3.2	3.3	-
243	Millwork, plywood, and structural members	39.7	39.8	38.6	39.5	-	3.3	3.4	2.9	3.1	-
2431	Millwork	39.6	39.5	38.0	38.5	-	2.5	2.6	1.8	2.0	-
2434	Wood kitchen cabinets	39.3	40.1	36.7	38.4	-	2.6	2.6	2.3	2.1	-
2435	Hardwood veneer and plywood	39.5	39.2	39.7	39.9	-	3.8	3.8	3.6	3.7	-
2436	Softwood veneer and plywood	40.2	40.2	39.9	41.2	-	4.8	4.9	4.3	4.8	-
244	Wooden containers	38.1	37.6	38.1	38.2	-	3.0	3.1	2.6	2.7	-
245	Wood buildings and mobile homes	38.7	38.7	37.7	38.1	-	2.8	2.7	2.1	2.3	-
2451	Mobile homes	38.1	38.1	37.4	38.0	-	2.1	2.0	1.6	1.9	-
249	Miscellaneous wood products	39.7	39.9	40.0	40.6	-	3.3	3.8	3.2	3.4	-
25	FURNITURE AND FIXTURES	39.5	39.5	38.0	38.4	38.3	2.8	2.9	1.9	2.2	-
251	Household furniture	39.1	39.0	37.8	38.4	-	2.6	2.8	1.8	2.1	-
2511	Wood household furniture	39.6	39.1	38.5	38.9	-	3.3	3.3	2.2	2.5	-
2512	Upholstered household furniture	38.2	38.7	36.5	37.4	-	1.7	2.1	1.0	1.3	-
2514	Metal household furniture	38.3	38.5	38.8	38.3	-	1.5	1.6	2.0	1.5	-
2515	Mattresses and bedspings	39.7	39.6	37.0	38.3	-	3.7	4.3	2.1	3.2	-
252	Office furniture	40.5	40.5	39.4	40.1	-	2.7	2.7	1.9	2.3	-
253	Public building and related furniture	41.1	41.9	35.9	37.5	-	3.1	3.1	2.1	2.3	-
254	Partitions and fixtures	40.0	40.5	38.5	39.2	-	3.3	3.7	2.7	3.0	-
259	Miscellaneous furniture and fixtures	40.3	39.4	37.7	34.0	-	2.8	2.6	1.8	2.1	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^P	Sept. 1979 ^P	Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^P	Sept. 1979 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	\$269.86	\$272.81	\$285.94	\$288.42	\$288.27	\$6.41	\$6.48	\$6.89	\$6.90	\$6.98
321	Flat glass	343.80	352.29	353.56	365.82	-	7.94	8.08	8.54	8.71	-
322	Glass and glassware, pressed or blown	270.28	271.22	290.24	286.40	-	6.69	6.73	7.22	7.16	-
3221	Glass containers	286.71	284.72	303.91	301.85	-	7.01	7.03	7.56	7.49	-
3229	Pressed and blown glass, nec	246.54	252.00	270.68	265.72	-	6.21	6.30	6.75	6.71	-
323	Products of purchased glass	253.15	271.57	241.18	238.46	-	6.22	6.42	6.20	6.21	-
324	Cement, hydraulic	370.02	380.80	412.13	409.07	-	8.81	8.96	9.72	9.58	-
325	Structural clay products	208.38	213.91	229.34	224.68	-	5.12	5.23	5.58	5.48	-
326	Pottery and related products	201.88	205.28	216.03	213.33	-	5.23	5.25	5.67	5.57	-
327	Concrete, gypsum, and plaster products	286.33	285.56	301.34	309.47	-	6.42	6.49	6.88	6.97	-
3271	Concrete block and brick	265.39	265.64	287.84	293.20	-	5.82	5.89	6.34	6.53	-
3272	Concrete products, nec	241.83	247.66	256.39	266.17	-	5.69	5.80	6.09	6.19	-
3273	Ready-mixed concrete	323.51	318.35	334.28	343.35	-	7.11	7.17	7.58	7.63	-
329	Misc. nonmetallic mineral products	266.28	268.39	283.59	287.73	-	6.31	6.36	6.85	6.90	-
3291	Abrasive products	251.10	252.72	268.13	266.67	-	6.20	6.24	6.67	6.65	-
3292	Asbestos products	286.01	289.29	291.75	288.93	-	6.53	6.62	7.03	7.03	-
33	PRIMARY METAL INDUSTRIES	347.36	356.17	373.35	370.87	373.42	8.31	8.42	9.04	9.09	9.13
331	Blast furnace and basic steel products	397.44	409.34	438.06	433.46	-	9.60	9.70	10.48	10.65	-
3312	Blast furnaces and steel mills	409.70	422.84	452.28	447.01	-	9.92	10.02	10.82	11.01	-
3317	Steel pipe and tubes	314.57	328.25	340.70	346.92	-	7.58	7.76	8.33	8.46	-
332	Iron and steel foundries	302.70	312.06	311.55	302.48	-	7.19	7.36	7.75	7.60	-
3321	Gray iron foundries	310.55	319.50	316.40	304.52	-	7.29	7.50	7.92	7.69	-
3322	Malleable iron foundries	309.20	317.16	322.76	303.06	-	7.73	7.87	8.34	8.06	-
3325	Steel foundries, nec	288.42	297.22	302.66	308.80	-	6.90	7.01	7.40	7.55	-
333	Primary nonferrous metals	364.59	363.58	393.33	403.10	-	8.66	8.74	9.57	9.69	-
3334	Primary aluminum	388.03	383.16	409.86	427.38	-	9.13	9.30	10.12	10.20	-
335	Nonferrous rolling and drawing	311.16	320.54	333.26	334.11	-	7.27	7.42	7.86	7.88	-
3351	Copper rolling and drawing	300.91	304.10	303.84	314.76	-	6.87	6.88	7.20	7.32	-
3353	Aluminum sheet, plate, and foil	372.70	388.37	404.92	403.79	-	8.79	8.99	9.55	9.66	-
3357	Nonferrous wire drawing and insulating	290.60	300.18	303.88	303.36	-	6.87	7.03	7.34	7.24	-
336	Nonferrous foundries	254.00	260.19	264.40	262.94	-	6.18	6.30	6.66	6.59	-
3361	Aluminum foundries	261.76	271.01	277.78	269.60	-	6.40	6.61	6.91	6.74	-
34	FABRICATED METAL PRODUCTS	259.72	265.74	274.04	276.21	281.64	6.35	6.45	6.80	6.82	6.92
341	Metal cans and shipping containers	366.17	361.88	410.86	404.52	-	8.21	8.30	9.01	9.07	-
3411	Metal cans	377.27	373.64	427.31	419.33	-	8.44	8.55	9.33	9.36	-
342	Cutlery, hand tools, and hardware	246.24	250.71	255.19	253.23	-	6.08	6.16	6.51	6.46	-
3423, 5	Hand and edge tools, and hand saws and blades	230.47	238.19	254.23	253.68	-	5.82	5.94	6.34	6.39	-
3429	Hardware, nec	261.81	264.27	259.11	256.58	-	6.37	6.43	6.73	6.63	-
343	Plumbing and heating, except electric	221.36	223.11	233.58	238.55	-	5.59	5.62	6.02	6.07	-
3432	Plumbing fittings and brass goods	215.72	216.86	232.00	235.76	-	5.42	5.49	5.80	5.85	-
3433	Heating equipment, except electric	217.23	222.24	221.63	227.89	-	5.57	5.57	5.91	5.95	-
344	Fabricated structural metal products	245.02	249.28	261.88	269.20	-	6.08	6.14	6.58	6.68	-
3441	Fabricated structural metal	261.99	264.45	285.07	291.99	-	6.39	6.45	6.97	7.07	-
3442	Metal doors, sash, and trim	191.97	194.93	205.14	212.79	-	4.86	4.91	5.26	5.36	-
3443	Fabricated plate work (boiler shops)	266.38	274.73	283.20	294.44	-	6.61	6.75	7.08	7.27	-
3444	Sheet metal work	248.46	250.74	262.47	269.28	-	6.29	6.30	6.73	6.80	-
3446	Architectural metal work	244.22	243.00	250.49	254.80	-	6.06	6.00	6.39	6.50	-
345	Screw machine products, bolts, etc.	255.00	260.22	263.53	266.20	-	6.00	6.08	6.35	6.43	-
3451	Screw machine products	237.30	240.24	247.46	250.66	-	5.65	5.72	5.97	6.04	-
3452	Bolts, nuts, rivets, and washers	273.05	280.99	280.64	283.18	-	6.35	6.43	6.73	6.84	-
346	Metal forgings and stampings	301.81	315.33	312.38	307.97	-	7.29	7.49	7.79	7.68	-
3462	Iron and steel forgings	331.85	340.85	322.34	319.20	-	7.92	8.02	8.55	8.40	-
3465	Automotive stampings	368.90	384.88	393.95	380.14	-	8.68	8.93	9.47	9.34	-
3469	Metal stampings, nec	227.93	235.34	238.80	245.43	-	5.67	5.74	6.00	6.06	-
347	Metal services, nec	207.14	210.37	220.95	223.04	-	5.14	5.22	5.51	5.59	-
3471	Plating and polishing	197.60	202.61	212.51	213.40	-	4.94	5.04	5.38	5.43	-
3479	Metal coating and allied services	228.93	228.17	239.13	243.72	-	5.57	5.62	5.79	5.93	-
348	Ordnance and accessories, nec	251.07	256.63	267.20	277.03	-	6.23	6.29	6.68	6.79	-
3483	Ammunition, exc. for small arms, nec	222.34	225.81	244.10	249.56	-	5.79	5.85	6.39	6.35	-
349	Misc. fabricated metal products	245.22	249.90	261.46	262.68	-	6.04	6.11	6.44	6.47	-
3494	Valves and pipe fittings	263.94	269.19	278.80	281.67	-	6.36	6.44	6.80	6.87	-
3496	Misc. fabricated wire products	212.40	216.80	230.45	228.34	-	5.31	5.42	5.69	5.68	-
35	MACHINERY, EXCEPT ELECTRICAL	280.80	290.07	302.82	302.82	311.92	6.75	6.89	7.35	7.35	7.48
351	Engines and turbines	333.68	346.44	363.85	345.20	-	8.06	8.19	8.81	8.92	-
3511	Turbines and turbine generator sets	299.09	318.78	315.19	271.21	-	7.44	7.59	7.86	8.12	-
3519	Internal combustion engines, nec	346.93	356.16	377.73	366.22	-	8.28	8.40	9.08	9.11	-
352	Farm and garden machinery	289.84	307.57	344.32	319.95	-	7.21	7.52	8.14	7.90	-
3523	Farm machinery and equipment	298.56	318.48	358.64	328.02	-	7.39	7.73	8.36	8.02	-
353	Construction and related machinery	306.37	313.34	321.94	329.96	-	7.26	7.39	7.91	7.97	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^P	Sept. 1979 ^P	Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^P	Sept. 1979 ^P
32	STONE, CLAY, AND GLASS PRODUCTS	42.1	42.1	41.5	41.8	41.3	5.2	5.2	4.7	4.8	-
321	Flat glass	43.3	43.6	41.4	42.0	-	6.2	5.8	4.3	4.3	-
322	Glass and glassware, pressed or blown	40.4	40.3	40.2	40.0	-	4.2	4.3	4.1	4.1	-
3221	Glass containers	40.9	40.5	40.2	40.3	-	4.9	4.9	4.5	4.4	-
3229	Pressed and blown glass, nec	39.7	40.0	40.1	39.6	-	3.3	3.5	3.5	3.7	-
323	Products of purchased glass	40.7	42.3	38.9	38.4	-	3.7	4.9	2.2	2.1	-
324	Cement, hydraulic	42.0	42.5	42.4	42.7	-	4.4	4.7	4.3	4.5	-
325	Structural clay products	40.7	40.9	41.1	41.0	-	4.3	4.4	4.1	4.2	-
326	Pottery and related products	38.6	39.1	38.1	38.3	-	2.5	2.6	2.1	2.5	-
327	Concrete, gypsum, and plaster products	44.6	44.0	43.8	44.4	-	7.5	7.2	6.7	7.0	-
3271	Concrete block and brick	45.6	45.1	45.4	44.9	-	8.0	7.7	7.5	7.5	-
3272	Concrete products, nec	42.5	42.7	42.1	43.0	-	6.5	6.5	5.5	6.0	-
3273	Ready-mixed concrete	45.5	44.4	44.1	45.0	-	7.9	7.2	7.2	7.4	-
329	Misc. nonmetallic mineral products	42.2	42.2	41.4	41.7	-	4.6	4.6	4.2	4.1	-
3291	Abrasive products	40.5	40.5	40.2	40.1	-	3.3	3.5	3.3	3.1	-
3292	Asbestos products	43.8	43.7	41.5	41.1	-	5.3	5.5	3.1	3.0	-
33	PRIMARY METAL INDUSTRIES	41.8	42.3	41.3	40.8	40.9	4.2	4.5	3.9	3.7	-
331	Blast furnace and basic steel products	41.4	42.2	41.8	40.7	-	3.6	3.9	3.8	3.4	-
3312	Blast furnaces and steel mills	41.3	42.2	41.8	40.6	-	3.6	3.9	3.8	3.3	-
3317	Steel pipe and tubes	41.5	42.3	40.9	41.3	-	3.9	4.7	3.4	3.1	-
332	Iron and steel foundries	42.1	42.4	40.2	39.8	-	4.9	5.2	3.3	3.4	-
3321	Gray iron foundries	42.6	42.6	40.0	39.6	-	5.4	5.7	3.1	3.1	-
3322	Malleable iron foundries	40.0	40.3	38.7	37.6	-	3.5	4.2	2.8	2.6	-
3325	Steel foundries, nec	41.8	42.4	40.9	40.9	-	4.1	4.5	4.0	4.2	-
333	Primary nonferrous metals	42.1	41.6	41.1	41.6	-	3.8	3.5	4.2	4.2	-
3334	Primary aluminum	42.5	41.2	40.5	41.9	-	4.2	3.9	3.9	4.2	-
335	Nonferrous rolling and drawing	42.8	43.2	42.4	42.4	-	5.4	5.7	5.1	5.0	-
3351	Copper rolling and drawing	43.8	44.2	42.2	43.0	-	6.0	6.3	5.0	5.6	-
3353	Aluminum sheet, plate and foil	42.4	43.2	42.4	41.8	-	6.8	7.3	6.7	6.1	-
3357	Nonferrous wire drawing and insulating	42.3	42.7	41.4	41.9	-	5.0	5.1	4.2	4.1	-
336	Nonferrous foundries	41.1	41.3	39.7	39.9	-	3.5	3.8	2.7	2.9	-
3361	Aluminum foundries	40.9	41.0	40.2	40.0	-	3.6	3.9	3.0	3.1	-
34	FABRICATED METAL PRODUCTS	40.9	41.2	40.3	40.5	40.7	3.7	4.1	3.2	3.3	-
341	Metal cans and shipping containers	44.6	43.6	45.6	44.6	-	5.3	5.5	5.9	5.7	-
3411	Metal cans	44.7	43.7	45.8	44.8	-	5.0	5.3	5.8	5.7	-
342	Cutlery, hand tools, and hardware	40.5	40.7	39.2	39.2	-	3.6	3.5	2.4	2.3	-
3423, 5	Hand and edge tools, and hand saws and blades	39.6	40.1	40.1	39.7	-	2.8	3.2	2.9	2.8	-
3429	Hardware, nec	41.1	41.1	38.5	38.7	-	4.2	3.8	2.1	1.9	-
343	Plumbing and heating, except electric	39.6	39.7	38.8	39.3	-	2.6	3.0	2.5	2.6	-
3432	Plumbing fittings and brass goods	39.8	39.5	40.0	40.3	-	2.8	2.9	2.8	3.2	-
3433	Heating equipment, except electric	39.0	39.9	37.5	38.3	-	2.1	3.0	2.0	2.1	-
344	Fabricated structural metal products	40.3	40.6	39.8	40.3	-	3.3	3.7	2.9	3.2	-
3441	Fabricated structural metal	41.0	41.0	40.9	41.3	-	3.9	4.1	3.6	3.8	-
3442	Metal doors, sash, and trim	39.5	39.7	39.0	39.7	-	3.1	3.0	2.5	3.1	-
3443	Fabricated plate work (boiler shops)	40.3	40.7	40.0	40.5	-	3.0	3.4	2.5	2.9	-
3444	Sheet metal work	39.5	39.8	39.0	39.6	-	3.2	3.7	2.8	3.1	-
3446	Architectural metal work	40.3	40.5	39.2	39.2	-	2.6	3.0	1.9	2.5	-
345	Screw machine products, bolts, etc.	42.5	42.8	41.5	41.4	-	5.3	5.6	4.1	4.4	-
3451	Screw machine products	42.0	42.0	41.4	41.5	-	5.2	5.5	4.3	4.5	-
3452	Bolts, nuts, rivets, and washers	43.0	43.7	41.7	41.4	-	5.4	5.8	3.8	4.3	-
346	Metal forgings and stampings	41.4	42.1	40.1	40.1	-	4.3	5.0	3.6	3.3	-
3462	Iron and steel forgings	41.9	42.5	37.7	38.0	-	5.5	5.8	3.5	3.0	-
3465	Automotive stampings	42.5	43.1	41.6	40.7	-	4.7	5.9	4.3	3.1	-
3469	Metal stampings, nec	40.2	41.0	39.8	40.5	-	3.3	3.7	3.0	3.3	-
347	Metal services, nec	40.3	40.3	40.1	39.9	-	3.7	4.0	3.3	3.6	-
3471	Plating and polishing	40.0	40.2	39.5	39.3	-	3.4	3.8	3.0	3.1	-
3479	Metal coating and allied services	41.1	40.6	41.3	41.1	-	4.4	4.5	4.1	4.6	-
348	Ordinance and accessories, nec	40.3	40.8	40.0	40.8	-	3.2	3.6	2.5	2.8	-
3483	Ammunition, exc. for small arms, nec	38.4	38.6	38.2	39.3	-	1.6	1.5	1.5	2.2	-
349	Misc. fabricated metal products	40.6	40.9	40.6	40.6	-	3.2	3.6	3.0	3.2	-
3494	Valves and pipe fittings	41.5	41.8	41.0	41.0	-	3.4	3.7	3.5	3.6	-
3496	Misc. fabricated wire products	40.0	40.0	40.5	40.2	-	3.0	3.3	3.2	3.2	-
35	MACHINERY, EXCEPT ELECTRICAL	41.6	42.1	41.2	41.2	41.7	4.0	4.5	3.7	3.7	-
351	Engines and turbines	41.4	42.3	41.3	38.7	-	3.6	4.2	3.6	3.0	-
3511	Turbines and turbine generator sets	40.2	42.0	40.1	33.4	-	3.9	4.8	3.2	3.0	-
3519	Internal combustion engines, nec	41.9	42.4	41.6	40.2	-	3.5	4.0	3.7	3.0	-
352	Farm and garden machinery	40.2	40.9	42.3	40.5	-	3.4	4.5	4.4	3.7	-
3523	Farm machinery and equipment	40.4	41.2	42.9	40.9	-	3.5	4.8	4.7	3.9	-
353	Construction and related machinery	42.2	42.4	40.7	41.4	-	3.9	3.9	3.1	3.3	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1978	Sept. 1978	July 1979	Aug. ^P 1979 ^P	Sept. ^B 1979 ^B	Aug. 1978	Sept. 1978	July 1979	Aug. ^P 1979 ^P	Sept. ^B 1979 ^B
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	\$334.02	\$342.74	\$350.47	\$362.66	-	\$8.01	\$8.18	\$8.74	\$8.76	-
3532	Mining machinery	294.42	306.59	338.19	334.74	-	7.01	7.13	8.11	7.97	-
3533	Oil field machinery	294.13	300.08	298.16	305.03	-	6.70	6.82	7.15	7.28	-
3535	Conveyers and conveying equipment	263.30	254.56	280.43	293.28	-	6.21	6.09	6.79	7.05	-
3537	Industrial trucks and tractors	271.17	273.50	283.46	280.92	-	6.63	6.72	7.14	7.13	-
354	Metalworking machinery	301.10	311.14	319.07	322.93	-	6.97	7.12	7.49	7.51	-
3541	Machine tools, metal cutting types	310.87	326.03	323.09	334.61	-	7.13	7.31	7.62	7.71	-
3542	Machine tools, metal forming types	314.81	321.00	324.28	310.00	-	7.39	7.50	7.89	7.75	-
3544	Special dies, tools, jigs, and fixtures	328.55	338.90	348.73	347.42	-	7.45	7.65	7.98	7.95	-
3545	Machine tool accessories	268.82	274.56	293.83	303.97	-	6.34	6.43	6.93	7.02	-
3546	Power driven hand tools	219.92	233.38	237.61	243.36	-	5.43	5.61	5.97	5.95	-
355	Special industry machinery	261.70	271.00	283.39	285.19	-	6.43	6.53	6.98	6.99	-
3551	Food products machinery	280.69	283.45	297.48	301.18	-	6.78	6.83	7.40	7.40	-
3552	Textile machinery	211.85	220.58	225.44	231.09	-	5.27	5.38	5.65	5.65	-
3555	Printing trades machinery	255.19	279.47	287.65	292.73	-	6.51	6.77	7.12	7.21	-
356	General industrial machinery	277.43	284.81	298.66	301.02	-	6.75	6.83	7.32	7.36	-
3561	Pumps and pumping equipment	269.34	279.62	290.80	295.40	-	6.70	6.82	7.27	7.33	-
3562	Ball and roller bearings	282.35	287.85	314.75	314.91	-	6.82	6.87	7.53	7.57	-
3563	Air and gas compressors	299.06	307.30	302.91	298.15	-	7.07	7.13	7.37	7.38	-
3564	Blowers and fans	246.65	244.42	271.67	269.61	-	6.09	6.08	6.61	6.69	-
3566	Speed changers, drives, and gears	311.10	317.99	346.20	347.92	-	7.32	7.26	8.07	8.11	-
3568	Power transmission equipment, nec	268.62	281.96	283.50	291.33	-	6.52	6.65	7.00	7.02	-
357	Office and computing machines	230.72	235.41	247.04	252.34	-	5.60	5.70	6.04	6.11	-
3573	Electronic computing equipment	231.28	237.22	249.48	256.47	-	5.60	5.73	6.07	6.18	-
3578	Refrigeration and service machinery	249.90	255.41	263.61	266.12	-	6.11	6.26	6.64	6.62	-
3585	Refrigeration and heating equipment	255.85	262.63	274.05	273.38	-	6.21	6.39	6.75	6.75	-
359	Misc. machinery, except electrical	271.47	284.00	290.99	290.17	-	6.51	6.62	7.08	7.06	-
3592	Carburetors, pistons, rings, valves	298.00	322.27	334.97	329.65	-	7.34	7.46	8.19	8.18	-
3599	Machinery, except electrical, nec	266.48	276.49	282.36	282.91	-	6.36	6.46	6.87	6.85	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	236.16	240.17	248.29	251.86	\$257.84	5.86	5.93	6.27	6.36	\$6.43
361	Electric distributing equipment	236.02	244.22	248.22	244.51	-	5.96	6.03	6.30	6.19	-
3612	Transformers	230.68	231.09	234.23	235.17	-	5.64	5.65	5.96	5.85	-
3613	Switchgear and switchboard apparatus	239.86	254.64	259.91	253.50	-	6.23	6.35	6.58	6.50	-
362	Electrical industrial apparatus	240.19	245.01	258.32	256.48	-	5.96	6.02	6.41	6.38	-
3621	Motors and generators	245.62	251.53	259.05	252.40	-	6.11	6.18	6.46	6.31	-
3622	Industrial controls	220.57	225.84	249.64	258.15	-	5.57	5.59	6.21	6.47	-
363	Household appliances	234.95	233.60	250.43	253.24	-	5.83	5.84	6.34	6.51	-
3632	Household refrigerators and freezers	259.78	249.60	279.61	280.86	-	6.20	6.24	6.87	7.22	-
3633	Household laundry equipment	271.56	267.42	299.88	313.39	-	6.91	6.91	7.35	7.70	-
3634	Electric housewares and fans	199.08	201.87	200.69	205.64	-	4.94	4.96	5.24	5.30	-
364	Electric lighting and wiring equipment	220.30	223.11	228.13	230.66	-	5.48	5.55	5.79	5.81	-
3641	Electric lamps	244.36	246.60	246.25	258.32	-	5.96	6.00	6.25	6.41	-
3643	Current-carrying wiring devices	207.87	207.03	217.85	222.31	-	5.12	5.15	5.46	5.53	-
3644	Noncurrent-carrying wiring devices	219.64	223.91	234.52	235.73	-	5.45	5.57	6.06	6.06	-
3645	Residential lighting fixtures	167.25	170.31	173.50	179.18	-	4.46	4.47	4.59	4.63	-
365	Radio and TV receiving equipment	213.44	218.14	223.88	228.76	-	5.39	5.44	5.97	6.02	-
3651	Radio and TV receiving sets	215.12	220.57	229.36	231.86	-	5.46	5.57	6.10	6.15	-
366	Communication equipment	278.66	283.86	292.23	303.62	-	6.78	6.84	7.18	7.46	-
3661	Telephone and telegraph apparatus	278.29	284.01	294.89	326.09	-	6.94	7.03	7.21	7.82	-
3662	Radio and TV communication equipment	279.05	283.41	289.98	286.48	-	6.66	6.70	7.16	7.18	-
367	Electronic components and accessories	196.31	199.00	207.73	210.45	-	4.92	5.00	5.34	5.41	-
3671-3	Electronic tubes	253.37	260.00	276.34	270.40	-	6.21	6.25	6.74	6.76	-
3674	Semiconductors and related devices	224.27	228.33	230.44	241.80	-	5.47	5.61	5.97	6.20	-
3679	Electronic components, nec	181.63	183.06	196.28	196.56	-	4.61	4.67	5.02	5.04	-
369	Misc. electrical equipment and supplies	281.80	292.99	291.20	292.66	-	6.89	7.06	7.28	7.28	-
3691	Storage batteries	302.10	311.53	284.99	307.34	-	7.21	7.33	7.48	7.57	-
3694	Engine electrical equipment	311.71	324.66	329.26	321.20	-	7.64	7.88	8.09	8.03	-
37	TRANSPORTATION EQUIPMENT	318.61	343.31	349.70	341.38	349.57	7.79	8.04	8.55	8.45	8.61
371	Motor vehicles and equipment	345.69	378.43	373.51	357.50	-	8.35	8.64	9.11	8.96	-
3711	Motor vehicles and car bodies	349.77	395.95	409.45	389.86	-	8.90	9.04	9.89	9.92	-
3713	Truck and bus bodies	273.78	280.49	287.82	276.51	-	6.76	6.96	7.38	6.93	-
3714	Motor vehicle parts and accessories	358.52	382.73	362.50	350.27	-	8.28	8.62	8.82	8.67	-
3715	Truck trailers	224.47	232.64	235.30	236.54	-	5.57	5.73	6.08	6.16	-
372	Aircraft and parts	317.18	325.46	346.46	345.68	-	7.57	7.64	8.21	8.25	-
3721	Aircraft	326.98	328.67	356.59	357.42	-	7.73	7.77	8.43	8.51	-
3724	Aircraft engines and engine parts	318.27	339.10	355.73	351.07	-	7.82	7.96	8.49	8.48	-
3728	Aircraft equipment, nec	294.41	302.40	315.03	313.02	-	6.96	7.00	7.43	7.40	-
373	Ship and boat building and repairing	255.42	265.59	272.12	288.80	-	6.60	6.69	7.18	7.33	-
3731	Shipbuilding and repairing	270.59	282.66	286.90	303.76	-	7.01	7.12	7.55	7.69	-
3732	Boat building and repairing	207.58	212.65	224.85	235.95	-	5.35	5.37	5.98	6.05	-
374	Railroad equipment	306.75	321.60	381.55	377.87	-	8.03	8.04	9.02	9.04	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979	Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979
MACHINERY, EXCEPT ELECTRICAL—Continued											
3531	Construction machinery	41.7	41.9	40.1	41.4	-	3.2	3.4	2.3	2.5	-
3532	Mining machinery	42.0	43.0	41.7	42.0	-	3.5	3.4	3.0	3.4	-
3533	Oil field machinery	43.9	44.0	41.7	41.9	-	5.2	5.4	4.5	4.5	-
3535	Conveyers and conveying equipment	42.4	41.8	41.3	41.6	-	4.6	3.9	4.0	4.2	-
3537	Industrial trucks and tractors	40.9	40.7	39.7	39.4	-	3.7	3.3	2.5	2.8	-
364	Metalworking machinery	43.2	43.7	42.6	43.0	-	5.1	5.9	5.3	5.4	-
3541	Machine tools, metal cutting types	43.6	44.6	42.4	43.4	-	5.6	6.3	5.5	5.9	-
3542	Machine tools, metal forming types	42.6	42.8	41.1	40.3	-	5.6	6.2	6.0	4.9	-
3544	Special dies, tools, jigs, and fixtures	44.1	44.3	43.7	43.7	-	6.1	6.7	5.9	5.8	-
3545	Machine tool accessories	42.4	42.7	42.4	43.3	-	4.3	5.1	5.1	5.5	-
3546	Power driven hand tools	40.5	41.6	39.8	40.9	-	2.8	4.1	3.1	4.0	-
385	Special industry machinery	40.7	41.5	40.6	40.8	-	3.6	4.2	3.4	3.5	-
3551	Food products machinery	41.4	41.5	40.2	40.7	-	3.4	3.7	2.9	3.1	-
3552	Textile machinery	40.2	41.0	39.9	40.9	-	2.5	3.4	2.4	2.4	-
3555	Printing trades machinery	39.2	41.9	40.4	40.6	-	3.3	4.9	3.6	4.0	-
356	General industrial machinery	41.1	41.7	40.8	40.9	-	3.9	4.5	3.6	3.7	-
3561	Pumps and pumping equipment	40.2	41.0	40.0	40.3	-	3.1	3.8	3.0	3.1	-
3562	Ball and roller bearings	41.4	41.9	41.8	41.6	-	4.9	5.4	4.5	4.5	-
3563	Air and gas compressors	42.3	43.1	41.1	40.4	-	4.5	4.6	3.0	2.9	-
3564	Blowers and fans	40.5	40.2	41.1	40.3	-	3.4	3.5	3.4	3.8	-
3566	Speed changers, drives, and gears	42.5	43.8	42.9	42.9	-	4.9	5.1	4.9	5.0	-
3568	Power transmission equipment, nec	41.2	42.4	40.5	41.5	-	4.0	5.3	4.1	4.0	-
357	Office and computing machines	41.2	41.3	40.9	41.3	-	3.1	3.4	2.3	2.5	-
3573	Electronic computing equipment	41.3	41.4	41.1	41.5	-	3.1	3.5	2.4	2.6	-
358	Refrigeration and service machinery	40.9	40.8	39.7	40.2	-	3.1	3.5	2.2	2.6	-
3585	Refrigeration and heating equipment	41.2	41.1	40.6	40.5	-	3.3	3.7	2.6	2.9	-
359	Misc. machinery, except electrical	41.7	42.9	41.1	41.1	-	4.5	5.0	4.2	4.1	-
3592	Carburetors, pistons, rings, valves	40.6	43.2	40.9	40.3	-	3.2	4.2	3.7	3.1	-
3599	Machinery, except electrical, nec	41.9	42.6	41.1	41.3	-	4.8	5.2	4.3	4.3	-
36	ELECTRIC AND ELECTRONIC EQUIPMENT	40.3	40.5	39.6	39.6	40.1	2.8	3.1	2.4	2.6	-
361	Electric distributing equipment	39.6	40.5	39.4	39.5	-	2.6	2.9	2.7	2.4	-
3612	Transformers	40.9	40.9	39.3	40.2	-	3.0	3.1	2.9	2.8	-
3613	Switchgear and switchboard apparatus	38.5	40.1	39.5	39.0	-	2.3	2.8	2.5	2.0	-
362	Electrical industrial apparatus	40.3	40.7	40.3	40.2	-	2.9	3.2	2.9	2.8	-
3621	Motors and generators	40.2	40.7	40.1	40.0	-	3.1	3.3	2.8	2.9	-
3622	Industrial controls	39.6	40.4	40.2	39.9	-	2.0	2.4	2.4	2.3	-
363	Household appliances	40.3	40.0	39.5	38.9	-	2.2	2.5	2.1	2.5	-
3632	Household refrigerators and freezers	41.9	40.0	40.7	38.9	-	2.0	1.6	2.7	2.6	-
3633	Household laundry equipment	39.3	38.7	40.8	40.7	-	1.3	.9	1.1	1.7	-
3634	Electric housewares and fans	40.3	40.7	38.3	38.8	-	2.9	3.5	1.8	2.4	-
364	Electric lighting and wiring equipment	40.2	40.2	39.4	39.7	-	2.9	3.1	2.3	2.4	-
3641	Electric lamps	41.0	41.1	39.4	40.3	-	2.4	2.9	1.3	1.8	-
3643	Current-carrying wiring devices	40.6	40.2	39.9	40.2	-	3.0	3.1	2.9	2.9	-
3644	Noncurrent-carrying wiring devices	40.3	40.2	38.7	38.9	-	2.9	3.3	1.6	2.2	-
3645	Residential lighting fixtures	37.5	38.1	37.8	38.7	-	1.9	1.9	2.0	1.9	-
365	Radio and TV receiving equipment	39.6	40.1	37.5	38.0	-	2.1	2.8	2.0	2.2	-
3651	Radio and TV receiving sets	39.4	39.6	37.6	37.7	-	1.8	2.2	1.8	1.9	-
366	Communication equipment	41.1	41.5	40.7	40.7	-	3.0	3.3	2.6	2.7	-
3661	Telephone and telegraph apparatus	40.1	40.4	40.9	41.7	-	3.1	3.2	2.9	3.3	-
3662	Radio and TV communication equipment	41.9	42.3	40.5	39.9	-	3.0	3.3	2.4	2.2	-
367	Electronic components and accessories	39.9	39.8	38.9	38.9	-	2.6	2.9	2.5	2.7	-
3671-3	Electronic tubes	40.8	41.6	41.0	40.0	-	1.9	2.4	1.9	1.9	-
3674	Semiconductors and related devices	41.0	40.7	38.6	39.0	-	3.2	4.1	3.0	3.6	-
3679	Electronic components, nec	39.4	39.2	39.1	39.0	-	2.5	2.6	2.4	2.6	-
369	Misc. electrical equipment and supplies	40.9	41.5	40.0	40.2	-	3.7	4.4	2.1	2.4	-
3691	Storage batteries	41.9	42.5	38.1	40.6	-	5.1	5.5	2.5	3.7	-
3694	Engine electrical equipment	40.8	41.2	40.7	40.0	-	3.7	4.6	2.1	1.7	-
37	TRANSPORTATION EQUIPMENT	40.9	42.7	40.9	40.4	40.6	4.5	5.5	4.3	4.0	-
371	Motor vehicles and equipment	41.4	43.8	41.0	39.9	-	5.4	6.8	4.5	4.0	-
3711	Motor vehicles and car bodies	39.3	43.8	41.4	39.3	-	5.1	6.8	5.7	5.6	-
3713	Truck and bus bodies	40.5	40.3	39.0	39.9	-	3.5	3.6	2.9	3.4	-
3714	Motor vehicle parts and accessories	43.3	44.4	41.1	40.4	-	6.0	7.3	3.9	3.1	-
3715	Truck trailers	40.3	40.6	38.7	38.4	-	3.0	3.7	2.4	2.0	-
372	Aircraft and parts	41.9	42.6	42.2	41.9	-	4.3	4.6	4.7	4.5	-
3721	Aircraft	42.3	42.3	42.3	42.0	-	3.9	3.8	4.2	4.1	-
3724	Aircraft engines and engine parts	40.7	42.6	41.9	41.4	-	4.4	5.4	5.2	4.9	-
3728	Aircraft equipment, nec	42.3	43.2	42.4	42.3	-	5.1	5.6	5.2	4.9	-
373	Ship and boat building and repairing	38.7	39.7	37.9	39.4	-	2.5	2.5	3.2	3.2	-
3731	Ship building and repairing	38.6	39.7	38.0	39.5	-	2.6	2.3	3.5	3.5	-
3732	Boat building and repairing	38.8	39.6	37.6	39.0	-	2.4	3.0	2.2	2.3	-
374	Railroad equipment	38.2	40.0	42.3	41.8	-	3.1	4.0	5.0	5.1	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^P	Sept. 1979 ^P	Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^P	Sept. 1979 ^P
TRANSPORTATION EQUIPMENT—Continued											
378	Guided missiles, space vehicles, parts	\$316.83	\$326.04	\$337.43	\$342.79	-	\$7.49	\$7.60	\$8.21	\$8.28	-
3761	Guided missiles and space vehicles	312.07	322.82	336.56	346.94	-	7.63	7.76	8.31	8.36	-
379	Miscellaneous transportation equipment	218.99	223.51	240.92	255.06	-	5.53	5.63	6.34	6.54	-
3792	Travel trailers and campers	195.32	195.33	199.82	215.28	-	5.06	5.10	5.52	5.85	-
38	INSTRUMENTS AND RELATED PRODUCTS	233.78	237.15	248.25	246.83	\$253.15	5.73	5.77	6.16	6.14	\$6.22
381	Engineering and scientific instruments	254.10	255.78	262.68	266.67	-	6.05	6.09	6.47	6.52	-
382	Measuring and controlling devices	236.47	241.43	254.20	252.94	-	5.81	5.86	6.20	6.23	-
3822	Environmental controls	224.07	227.40	232.46	231.87	-	5.56	5.56	5.90	5.87	-
3823	Process control instruments	244.73	258.26	261.04	254.41	-	5.94	6.02	6.26	6.19	-
3825	Instruments to measure electricity	245.78	245.63	272.16	270.27	-	5.98	6.05	6.48	6.56	-
383	Optical instruments and lenses	264.11	268.14	295.24	298.15	-	6.03	6.15	6.71	6.70	-
384	Medical instruments and supplies	196.81	202.81	204.67	199.30	-	4.97	5.02	5.33	5.19	-
3841	Surgical and medical instruments	192.10	199.26	199.17	185.25	-	4.72	4.79	5.12	4.75	-
3842	Surgical appliances and supplies	204.62	207.76	209.55	211.25	-	5.22	5.22	5.50	5.53	-
385	Ophthalmic goods	178.02	181.35	190.90	192.37	-	4.60	4.65	4.92	4.92	-
386	Photographic equipment and supplies	306.29	306.25	323.11	321.26	-	7.19	7.24	7.73	7.76	-
387	Watches, clocks, and watchcases	178.49	179.25	175.31	183.05	-	4.44	4.47	4.70	4.73	-
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	182.83	185.42	194.66	195.55	197.85	4.70	4.73	5.03	5.04	5.06
391	Jewelry, silverware, and plated ware	183.52	187.89	192.84	198.06	-	4.73	4.83	5.17	5.16	-
3911	Jewelry, precious metal	175.86	179.17	187.90	192.28	-	4.64	4.74	5.12	5.06	-
393	Musical instruments	182.10	183.28	199.98	204.41	-	4.61	4.64	4.95	5.01	-
394	Toys and sporting goods	164.21	167.96	169.72	175.80	-	4.31	4.34	4.55	4.59	-
3942, 4	Dolls, games, toys, and children's vehicles	158.12	160.61	166.36	172.54	-	4.15	4.15	4.46	4.47	-
3949	Sporting and athletic goods, nec	171.52	176.09	172.70	179.36	-	4.49	4.55	4.63	4.72	-
395	Pens, pencils, office and art supplies	199.67	199.84	210.42	215.02	-	4.93	4.91	5.17	5.27	-
396	Costume jewelry and notions	155.01	156.21	165.59	157.75	-	4.09	4.10	4.29	4.31	-
3961	Costume jewelry	145.08	145.47	154.16	154.25	-	3.90	3.90	4.10	4.08	-
399	Miscellaneous manufactures	208.43	211.47	221.99	222.55	-	5.25	5.30	5.62	5.62	-
3993	Signs and advertising displays	217.65	218.51	229.32	228.54	-	5.51	5.56	5.88	5.86	-
NONDURABLE GOODS											
20	FOOD AND KINDRED PRODUCTS	233.56	236.96	251.83	252.46	253.49	5.81	5.88	6.28	6.28	6.29
201	Meat products	235.22	244.62	261.29	261.23	-	5.94	6.07	6.42	6.45	-
2011	Meat packing plants	288.05	309.40	331.57	327.76	-	7.13	7.28	7.82	7.86	-
2013	Sausages and other prepared meats	272.40	273.43	305.78	306.59	-	6.81	6.87	7.55	7.57	-
2016	Poultry dressing plants	148.23	146.29	163.41	166.24	-	3.85	3.87	4.19	4.23	-
202	Dairy products	244.78	249.13	263.13	263.34	-	5.87	5.96	6.28	6.30	-
2022	Cheese, natural and processed	225.62	222.16	244.58	244.80	-	5.53	5.61	5.98	6.00	-
2026	Fluid milk	254.40	262.30	275.62	275.18	-	6.00	6.10	6.47	6.49	-
203	Preserved fruits and vegetables	209.04	204.22	208.74	220.40	-	5.20	5.17	5.38	5.51	-
2032	Canned specialties	249.48	248.64	252.72	280.37	-	5.94	5.92	6.24	6.49	-
2033	Canned fruits and vegetables	216.28	209.48	204.06	220.47	-	5.38	5.25	5.37	5.61	-
2037	Frozen fruits and vegetables	200.41	195.61	198.01	206.44	-	4.90	4.99	5.17	5.11	-
204	Grain mill products	279.40	287.51	302.03	305.29	-	6.35	6.49	6.88	6.97	-
2041	Flour and other grain mill products	315.10	330.62	327.36	329.36	-	6.85	7.11	7.04	7.16	-
2048	Prepared feeds, nec	220.25	229.62	250.32	250.86	-	5.04	5.16	5.60	5.65	-
205	Bakery products	236.38	239.68	255.18	253.60	-	6.03	6.13	6.56	6.57	-
2051	Bread, cake, and related products	237.90	241.02	256.97	254.31	-	6.10	6.18	6.64	6.64	-
2052	Cookies and crackers	231.64	234.62	248.85	249.56	-	5.82	5.97	6.30	6.35	-
206	Sugar and confectionery products	225.19	227.66	236.01	239.90	-	5.73	5.72	6.13	6.12	-
2061-3	Cane and beet sugar	282.77	274.11	293.79	289.30	-	6.88	6.87	7.29	7.38	-
2065	Confectionery products	192.79	198.69	208.07	213.40	-	5.06	5.03	5.49	5.50	-
207	Fats and oils	270.57	272.44	297.64	293.23	-	6.22	6.22	6.78	6.71	-
208	Beverages	279.86	285.31	306.27	308.66	-	6.91	7.01	7.47	7.51	-
2082	Malt beverages	386.16	393.76	433.75	434.42	-	9.35	9.42	10.23	10.27	-
2088	Bottled and canned soft drinks	214.43	213.44	227.00	229.90	-	5.23	5.27	5.55	5.58	-
209	Misc. foods and kindred products	189.25	193.54	197.47	198.02	-	5.02	5.12	5.41	5.44	-
21	TOBACCO MANUFACTURES	229.77	228.31	246.56	249.24	261.03	6.16	5.93	6.83	6.70	6.78
211	Cigarettes	287.23	289.94	277.54	298.58	-	7.48	7.59	7.84	7.92	-
22	TEXTILE MILL PRODUCTS	177.83	179.89	185.54	192.23	195.77	4.38	4.42	4.65	4.77	4.81
221	Weaving mills, cotton	185.09	188.09	194.81	208.66	-	4.57	4.61	4.81	5.04	-
222	Weaving mills, synthetics	195.72	196.98	203.20	206.35	-	4.66	4.69	4.92	5.07	-
223	Weaving and finishing mills, wool	182.10	188.52	186.98	191.88	-	4.42	4.51	4.77	4.87	-
224	Narrow fabric mills	161.60	163.61	173.23	171.43	-	4.05	4.08	4.32	4.34	-
225	Knitting mills	156.78	156.72	166.66	168.58	-	4.02	4.06	4.34	4.39	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979	Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979
TRANSPORTATION EQUIPMENT—Continued											
376	Guided missiles, space vehicles, parts	42.3	42.9	41.1	41.4	-	4.2	4.5	4.4	4.5	-
3761	Guided missiles and space vehicles	40.9	41.6	40.5	41.5	-	3.4	3.6	3.7	3.9	-
379	Miscellaneous transportation equipment	39.6	39.7	38.0	39.0	-	2.6	2.8	1.2	1.4	-
3792	Travel trailers and campers	38.6	38.3	36.2	36.8	-	2.5	2.5	.9	.9	-
INSTRUMENTS AND RELATED PRODUCTS											
38	Engineering and scientific instruments	40.8	41.1	40.3	40.2	40.7	2.5	2.8	2.1	2.3	-
381	Measuring and controlling devices	42.0	42.0	40.6	40.9	-	3.4	3.5	3.2	3.5	-
382	Environmental controls	40.7	41.2	41.0	40.6	-	2.1	2.6	2.2	2.3	-
3822	Process control instruments	40.3	40.9	39.4	39.5	-	2.0	2.2	1.5	1.4	-
3823	Instruments to measure electricity	41.1	42.9	41.7	41.1	-	2.6	3.8	2.8	2.7	-
3825	Optical instruments and lenses	41.1	40.6	42.0	41.2	-	1.9	1.9	1.9	2.1	-
383	Medical instruments and supplies	43.8	43.6	44.0	44.5	-	3.3	3.8	3.5	4.1	-
384	Surgical and medical instruments	39.6	40.4	38.4	38.4	-	2.3	2.6	1.7	1.8	-
3841	Surgical appliances and supplies	40.7	41.6	38.9	39.0	-	2.6	3.1	1.9	2.2	-
3842	Ophthalmic goods	39.2	39.8	38.1	38.2	-	2.4	2.4	1.6	1.7	-
385	Photographic equipment and supplies	38.7	39.0	38.8	39.1	-	1.8	2.1	1.4	2.0	-
386	Watches, clocks, and watchcases	42.6	42.3	41.8	41.4	-	3.1	3.5	2.4	2.5	-
387	Watches, clocks, and watchcases	40.2	40.1	37.3	38.7	-	1.9	2.5	.8	1.3	-
MISCELLANEOUS MANUFACTURING INDUSTRIES											
39	Jewelry, silverware, and plated ware	38.9	39.2	38.7	38.8	39.1	2.4	2.6	1.8	2.2	-
391	Jewelry, precious metal	38.8	38.9	37.3	38.5	-	2.4	2.8	.8	2.0	-
3911	Musical instruments	37.9	37.8	36.7	38.0	-	2.1	2.5	.8	1.8	-
393	Toys and sporting goods	39.5	39.5	40.4	40.8	-	2.2	2.1	1.0	2.0	-
394	Dolls, games, toys, and children's vehicles	38.1	38.7	37.3	38.3	-	1.8	2.1	1.4	1.9	-
3942, 4	Sporting and athletic goods, nec	38.1	38.7	37.3	38.6	-	1.8	2.6	1.3	2.0	-
3949	Pens, pencils, office and art supplies	38.2	38.7	37.3	38.0	-	1.7	1.7	1.5	1.7	-
395	Costume jewelry and notions	40.5	40.7	40.7	40.8	-	2.8	2.8	2.9	3.3	-
396	Costume jewelry	37.9	38.1	38.6	36.6	-	2.4	2.7	1.4	1.6	-
3961	Miscellaneous manufactures	37.2	37.3	37.6	35.6	-	2.2	2.6	.9	1.3	-
399	Signs and advertising displays	39.7	39.9	39.5	39.6	-	2.8	3.0	2.4	2.7	-
3993	Signs and advertising displays	39.5	39.3	39.0	39.0	-	2.5	2.4	2.2	2.4	-
NONDURABLE GOODS											
FOOD AND KINDRED PRODUCTS											
20	Meat products	40.2	40.3	40.1	40.2	40.3	4.4	4.6	4.1	4.5	-
201	Meat packing plants	39.6	40.3	40.7	40.5	-	3.9	4.5	4.6	4.5	-
2011	Sausages and other prepared meats	40.4	42.5	42.4	41.7	-	4.2	5.7	5.2	5.2	-
2013	Poultry dressing plants	40.0	39.8	40.5	40.5	-	3.7	3.7	4.0	3.8	-
2016	Dairy products	38.5	37.8	39.0	39.3	-	3.6	3.5	4.2	4.2	-
202	Cheese, natural and processed	41.7	41.8	41.9	41.8	-	4.3	4.5	4.3	4.3	-
2022	Fluid milk	40.8	39.6	40.9	40.8	-	3.8	3.4	3.9	4.2	-
2026	Preserved fruits and vegetables	42.4	43.0	42.6	42.4	-	4.5	5.2	4.5	4.5	-
203	Canned specialties	40.2	39.5	38.8	40.0	-	5.4	5.1	3.9	5.5	-
2032	Canned fruits and vegetables	42.0	42.0	40.5	43.2	-	5.6	6.4	3.4	6.6	-
2033	Frozen fruits and vegetables	40.2	39.9	38.0	39.3	-	6.2	6.1	4.8	6.2	-
2037	Grain mill products	40.9	39.2	38.3	40.4	-	4.8	4.1	3.4	5.3	-
204	Flour and other grain mill products	44.0	44.3	43.9	43.8	-	6.4	7.1	6.4	6.3	-
2041	Prepared feeds, nec	46.0	46.5	46.5	46.0	-	6.8	8.2	8.2	7.3	-
2048	Bakery products	43.7	44.5	44.7	44.4	-	6.6	7.4	7.1	6.6	-
205	Bread, cake, and related products	39.2	39.1	38.9	38.6	-	3.4	3.6	3.5	3.2	-
2061	Cookies and crackers	39.0	39.0	38.7	38.3	-	3.7	4.1	3.9	3.5	-
2062	Sugar and confectionery products	39.8	39.3	39.5	39.3	-	2.4	2.3	2.1	2.2	-
206	Cane and beet sugar	39.3	39.8	38.5	39.2	-	2.9	3.3	2.2	3.0	-
2061-3	Confectionery products	41.1	39.9	40.3	39.2	-	4.3	4.3	3.8	3.3	-
2065	Fats and oils	38.1	39.5	37.9	38.8	-	2.0	2.6	1.7	2.9	-
207	Beverages	43.5	43.8	43.9	43.7	-	6.0	6.1	6.3	6.0	-
208	Malt beverages	40.5	40.7	41.0	41.1	-	4.3	4.5	4.1	4.3	-
2082	Bottled and canned soft drinks	41.3	41.8	42.4	42.3	-	5.1	5.4	5.5	5.4	-
2086	Misc. foods and kindred products	41.0	40.5	40.9	41.2	-	4.8	4.3	4.2	4.5	-
209	Misc. foods and kindred products	37.7	37.8	36.5	36.4	-	3.8	3.8	2.9	3.0	-
TOBACCO MANUFACTURES											
21	Cigarettes	37.3	38.5	36.1	37.2	38.5	2.0	2.2	.9	1.3	-
211	Cigarettes	38.4	38.2	35.4	37.7	-	2.1	2.4	.9	1.3	-
TEXTILE MILL PRODUCTS											
22	Weaving mills, cotton	40.6	40.7	39.9	40.3	40.7	3.7	3.8	3.2	3.5	-
221	Weaving mills, synthetics	40.5	40.8	40.5	41.4	-	3.6	3.9	3.6	4.4	-
222	Weaving and finishing mills, wool	42.0	42.0	41.3	40.7	-	4.3	4.3	4.0	3.6	-
223	Narrow fabric mills	41.2	41.8	39.2	39.4	-	3.7	4.1	3.3	3.4	-
224	Knitting mills	39.9	40.1	40.1	39.5	-	2.9	3.0	2.4	2.5	-
225	Knitting mills	39.0	38.6	38.4	38.4	-	3.0	2.9	2.5	2.6	-

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings					
		Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^P	Sept. 1979 ^P	Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^P	Sept. 1979 ^P	
	TEXTILE MILL PRODUCTS—Continued											
2251	Women's hosiery, except socks	\$151.98	\$152.46	\$158.18	\$165.36	-	53.79	\$3.85	\$4.13	\$4.24	-	-
2252	Hosiery, nec	143.63	143.24	154.57	156.11	-	3.76	3.83	4.10	4.13	-	-
2253	Knit outerwear mills	150.02	148.37	160.45	164.97	-	3.99	4.01	4.29	4.33	-	-
2254	Knit underwear mills	141.00	142.12	151.10	140.48	-	3.75	3.74	4.04	4.06	-	-
2257	Circular knit fabric mills	181.15	185.89	188.97	195.37	-	4.44	4.49	4.76	4.86	-	-
228	Textile finishing, except wool	194.69	199.08	194.71	200.45	-	4.68	4.74	4.88	5.06	-	-
2261	Finishing plants, cotton	197.60	203.34	196.61	214.02	-	4.75	4.83	4.94	5.22	-	-
2262	Finishing plants, synthetics	206.00	210.15	204.00	213.61	-	4.87	4.91	5.10	5.21	-	-
227	Floor covering mills	191.20	195.11	196.10	206.91	-	4.52	4.58	4.83	4.88	-	-
228	Yarn and thread mills	167.68	170.15	175.20	181.65	-	4.12	4.15	4.38	4.49	-	-
2281	Yarn mills, except wool	167.68	170.56	176.92	184.46	-	4.12	4.16	4.39	4.51	-	-
2282	Throwing and winding mills	157.51	166.30	163.46	169.03	-	3.87	3.95	4.17	4.29	-	-
229	Miscellaneous textile goods	197.89	199.96	201.60	210.23	-	4.78	4.83	5.04	5.14	-	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	141.48	143.60	149.74	149.88	\$149.53	3.93	4.00	4.23	4.21	\$4.26	-
231	Men's and boys' suits and coats	171.70	171.59	182.52	181.71	-	4.73	4.74	5.07	5.09	-	-
232	Men's and boys' furnishings	129.22	129.60	139.29	140.09	-	3.55	3.60	3.88	3.87	-	-
2321	Men's and boys' shirts and nightwear	129.03	129.15	137.25	137.26	-	3.45	3.50	3.75	3.73	-	-
2327	Men's and boys' separate trousers	129.50	131.67	137.41	137.02	-	3.65	3.73	3.96	3.96	-	-
2328	Men's and boys' work clothing	127.78	127.08	141.73	141.74	-	3.52	3.53	3.81	3.80	-	-
233	Women's and misses' outerwear	135.88	136.06	139.95	142.13	-	3.95	3.99	4.19	4.23	-	-
2331	Women's and misses' blouses and waists	129.17	128.00	139.48	134.64	-	3.68	3.71	3.94	3.96	-	-
2335	Women's and misses' dresses	134.94	135.79	133.76	138.13	-	4.04	4.09	4.26	4.33	-	-
2337	Women's and misses' suits and coats	147.40	149.55	155.84	160.78	-	4.31	4.36	4.57	4.62	-	-
2339	Women's and misses' outerwear, nec	134.19	133.70	139.90	139.95	-	3.78	3.82	4.02	4.01	-	-
234	Women's and children's undergarments	131.39	134.29	134.78	141.64	-	3.59	3.61	3.84	3.87	-	-
2341	Women's and children's underwear	128.48	130.63	133.79	140.22	-	3.52	3.54	3.79	3.80	-	-
2342	Brassieres and allied garments	144.71	147.84	139.66	147.44	-	3.89	3.86	4.06	4.13	-	-
236	Children's outerwear	127.44	129.60	139.08	138.99	-	3.54	3.60	3.80	3.85	-	-
2361	Children's dresses and blouses	122.14	125.32	140.62	132.90	-	3.52	3.55	3.77	3.83	-	-
238	Misc. apparel and accessories	139.84	143.17	149.65	150.06	-	3.80	3.88	4.10	4.10	-	-
239	Misc. fabricated textile products	175.49	182.83	187.29	179.93	-	4.57	4.70	4.89	4.76	-	-
2391	Curtains and draperies	131.57	131.95	136.16	139.48	-	3.49	3.50	3.71	3.78	-	-
2392	House furnishing, nec	150.11	156.78	162.99	165.33	-	3.94	4.02	4.19	4.25	-	-
2396	Automotive and apparel trimmings	292.13	311.88	308.83	277.89	-	7.34	7.57	7.98	7.45	-	-
26	PAPER AND ALLIED PRODUCTS	282.71	287.91	304.73	307.15	310.43	6.59	6.68	7.17	7.21	7.27	-
261, 2,6	Paper and pulp mills	340.36	348.53	376.52	378.00	-	7.53	7.66	8.33	8.40	-	-
262	Paper mills, except building paper	340.50	349.61	379.02	380.45	-	7.50	7.65	8.33	8.38	-	-
263	Paperboard mills	346.66	350.95	367.60	360.30	-	7.79	7.94	8.47	8.44	-	-
264	Misc. converted paper products	239.67	244.55	259.97	263.08	-	5.86	5.95	6.31	6.37	-	-
2641	Paper coating and glazing	290.98	292.07	309.06	312.05	-	6.72	6.84	7.04	7.06	-	-
2642	Envelopes	217.06	218.90	234.77	234.37	-	5.44	5.50	5.84	5.83	-	-
2643	Bags, except textile bags	236.44	240.09	249.60	251.08	-	5.67	5.73	6.00	6.05	-	-
265	Paperboard containers and boxes	251.51	257.05	260.94	267.90	-	5.96	6.02	6.38	6.44	-	-
2651	Folding paperboard boxes	262.84	272.12	267.08	271.41	-	6.17	6.27	6.53	6.54	-	-
2653	Corrugated and solid fiber boxes	267.27	271.92	274.96	284.08	-	6.23	6.28	6.69	6.78	-	-
2654	Sanitary food containers	229.91	232.13	247.28	254.40	-	5.54	5.54	5.93	6.00	-	-
27	PRINTING AND PUBLISHING	246.56	251.46	258.06	263.41	267.90	6.54	6.60	6.90	6.95	7.05	-
271	Newspapers	233.56	235.96	249.32	252.62	-	6.91	6.80	7.29	7.28	-	-
272	Periodicals	224.65	232.25	241.70	240.21	-	5.82	5.94	6.48	6.44	-	-
273	Books	237.46	236.02	241.02	246.25	-	5.82	5.96	6.18	6.25	-	-
2731	Book publishing	232.41	226.55	232.25	237.60	-	5.56	5.75	5.85	5.94	-	-
2732	Book printing	242.78	245.35	250.97	255.42	-	6.10	6.18	6.57	6.60	-	-
274	Miscellaneous publishing	211.39	209.66	212.40	227.40	-	5.76	5.84	6.00	6.00	-	-
275	Commercial printing	263.35	269.99	273.79	280.86	-	6.77	6.87	7.13	7.22	-	-
2751	Commercial printing, letterpress	248.84	252.85	251.08	258.91	-	6.43	6.50	6.66	6.76	-	-
2752	Commercial printing, lithographic	270.36	279.27	286.65	293.92	-	6.95	7.07	7.35	7.46	-	-
276	Manifold business forms	253.17	260.00	275.11	277.04	-	6.19	6.25	6.71	6.76	-	-
278	Blankbooks and bookbinding	196.67	201.85	201.17	202.90	-	5.03	5.11	5.28	5.27	-	-
279	Printing trade services	327.33	338.13	335.77	345.98	-	8.48	8.67	8.93	9.01	-	-
28	CHEMICALS AND ALLIED PRODUCTS	295.11	299.46	316.92	319.77	322.21	7.06	7.13	7.60	7.65	7.69	-
281	Industrial inorganic chemicals	325.78	329.52	346.52	349.03	-	7.72	7.79	8.29	8.37	-	-
2819	Industrial inorganic chemicals, nec	320.08	324.90	346.11	349.83	-	7.75	7.81	8.34	8.45	-	-
282	Plastics materials and synthetics	294.68	297.22	311.54	312.66	-	6.95	7.01	7.40	7.48	-	-
2821	Plastics materials and resins	331.36	334.18	344.71	346.92	-	7.60	7.70	8.13	8.26	-	-
2824	Organic fibers, noncellulosic	271.47	275.70	293.02	293.15	-	6.51	6.58	6.96	7.03	-	-
283	Drugs	265.15	270.03	281.80	286.18	-	6.42	6.46	6.89	6.98	-	-
2834	Pharmaceutical preparations	255.78	260.76	273.10	275.65	-	6.30	6.36	6.76	6.84	-	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979	Aug. 1978	Sept. 1978	July 1979	Aug.-p 1979	Sept.-p 1979
	TEXTILE MILL PRODUCTS—Continued										
2251	Women's hosiery, except socks	40.1	39.6	38.3	39.0	-	3.2	3.0	3.1	3.7	-
2252	Hosiery, nec	38.2	37.4	37.7	37.8	-	2.2	2.2	2.3	2.2	-
2253	Knit outerwear mills	37.6	37.0	37.4	38.1	-	2.4	2.1	1.8	2.2	-
2254	Knit underwear mills	37.6	38.0	37.4	34.0	-	1.8	2.0	1.0	.9	-
2257	Circular knit fabric mills	40.8	41.4	39.7	40.2	-	4.8	4.9	3.9	3.6	-
226	Textile finishing, except wool	41.6	42.0	39.9	40.8	-	4.1	4.5	2.7	3.4	-
2261	Finishing plants, cotton	41.6	42.1	39.8	41.0	-	4.2	4.9	2.9	3.2	-
2262	Finishing plants, synthetics	42.3	42.8	40.0	41.0	-	4.4	4.6	2.6	4.1	-
227	Floor covering mills	42.3	42.6	40.6	42.4	-	4.9	5.0	4.4	5.0	-
228	Yarn and thread mills	40.7	41.0	40.0	40.5	-	3.6	3.8	3.1	3.7	-
2281	Yarn mills, except wool	40.7	41.0	40.3	40.9	-	3.6	3.9	3.3	3.9	-
2282	Throwing and winding mills	40.7	42.1	39.2	39.4	-	3.7	4.2	2.9	3.4	-
229	Miscellaneous textile goods	41.4	41.4	40.0	40.9	-	4.0	4.3	2.6	3.6	-
23	APPAREL AND OTHER TEXTILE PRODUCTS	36.0	35.9	35.4	35.6	35.1	1.3	1.4	.9	1.2	-
231	Men's and boys' suits and coats	36.3	36.2	36.0	35.7	-	.9	1.0	.4	.6	-
232	Men's and boys' furnishings	36.4	36.0	35.9	36.2	-	1.0	1.0	.8	1.1	-
2321	Men's and boys' shirts and nighwear	37.4	36.9	36.6	36.8	-	1.2	1.0	.8	1.1	-
2327	Men's and boys' separate trousers	35.5	35.3	34.7	34.6	-	.9	1.0	.7	1.1	-
2328	Men's and boys' work clothing	36.3	36.0	37.2	37.3	-	.9	1.0	1.0	1.3	-
233	Women's and misses' outerwear	34.4	34.1	33.4	33.6	-	1.3	1.3	.7	1.0	-
2331	Women's and misses' blouses and waists	35.1	34.5	35.4	34.0	-	1.1	1.0	.7	.8	-
2335	Women's and misses' dresses	33.4	33.2	31.4	31.9	-	1.2	1.3	.7	1.0	-
2337	Women's and misses' suits and coats	34.2	34.3	34.1	34.8	-	1.3	1.4	.8	1.2	-
2339	Women's and misses' outerwear, nec	35.5	35.0	34.8	34.9	-	1.4	1.3	.8	1.0	-
234	Women's and children's undergarments	36.6	37.2	35.1	36.6	-	1.1	1.5	.7	1.4	-
2341	Women's and children's underwear	36.5	36.9	35.3	36.9	-	1.2	1.5	.8	1.5	-
2342	Brassieres and allied garments	37.2	38.3	34.4	35.7	-	.9	1.3	.5	1.1	-
236	Children's outerwear	36.0	36.0	36.6	36.1	-	1.4	1.4	1.1	1.8	-
2361	Children's dresses and blouses	34.7	35.3	37.3	34.7	-	1.4	1.7	1.6	1.0	-
238	Misc. apparel and accessories	36.8	36.9	36.5	36.0	-	1.5	1.7	.7	1.1	-
239	Misc. fabricated textile products	38.4	38.9	38.3	37.8	-	2.1	2.8	1.8	1.6	-
2391	Curtains and draperies	37.7	37.7	36.7	36.9	-	1.6	1.7	.6	.9	-
2392	House furnishings, nec	38.1	39.0	38.9	38.9	-	1.7	2.3	2.1	2.2	-
2396	Automotive and apparel trimmings	39.8	41.2	38.7	37.3	-	3.2	5.3	2.8	1.4	-
26	PAPER AND ALLIED PRODUCTS	42.9	43.1	42.5	42.6	42.7	5.2	5.6	4.9	5.0	-
261, 2, 6	Paper and pulp mills	45.2	45.5	45.2	45.0	-	6.8	7.3	7.0	6.7	-
262	Paper mills, except building paper	45.4	45.7	45.5	45.4	-	6.9	7.5	7.0	6.8	-
263	Paperboard mills	44.5	44.2	43.4	43.4	-	7.3	7.2	7.2	7.1	-
264	Misc. converted paper products	40.9	41.1	41.2	41.3	-	3.8	4.3	3.5	3.7	-
2641	Paper coating and glazing	43.3	42.7	43.9	44.2	-	5.5	6.1	5.0	5.2	-
2642	Envelopes	39.9	39.8	40.2	40.2	-	3.3	3.5	2.7	3.0	-
2643	Bags, except textile bags	41.7	41.9	41.6	41.5	-	3.9	4.2	3.5	3.6	-
265	Paperboard containers and boxes	42.2	42.7	40.9	41.6	-	4.4	4.8	3.5	4.0	-
2651	Folding paperboard boxes	42.6	43.4	40.9	41.5	-	4.6	5.3	3.4	3.8	-
2653	Corrugated and solid fiber boxes	42.9	43.3	41.1	41.9	-	4.9	5.5	4.0	4.6	-
2654	Sanitary food containers	41.5	41.9	41.7	42.4	-	4.0	3.9	3.3	3.5	-
27	PRINTING AND PUBLISHING	37.7	38.1	37.4	37.9	38.0	3.2	3.5	2.6	2.9	-
271	Newspapers	33.8	34.7	34.2	34.7	-	1.9	2.0	1.8	2.0	-
272	Periodicals	38.6	39.1	37.3	37.3	-	2.6	4.0	1.6	2.1	-
273	Books	40.8	39.6	39.0	39.4	-	4.6	4.2	3.3	3.7	-
2731	Book publishing	41.8	39.4	39.7	40.0	-	3.6	2.4	2.3	2.8	-
2732	Book printing	39.8	39.7	38.2	38.7	-	5.6	6.1	4.4	4.7	-
274	Miscellaneous publishing	36.7	35.9	35.4	37.9	-	2.1	2.1	1.6	2.3	-
275	Commercial printing	38.9	39.3	38.4	38.9	-	3.8	4.2	3.0	3.5	-
2751	Commercial printing, letterpress	38.7	38.9	37.7	38.3	-	3.5	3.8	2.5	2.9	-
2752	Commercial printing, lithographic	38.9	39.5	39.0	39.4	-	3.9	4.4	3.1	3.8	-
276	Manifold business forms	40.9	41.6	41.0	41.1	-	4.0	4.4	3.4	3.5	-
278	Blankbooks and bookbinding	39.1	39.5	38.1	38.5	-	2.5	2.8	2.0	2.1	-
279	Printing trade service	38.6	39.0	37.6	38.4	-	4.0	4.2	3.5	4.0	-
28	CHEMICALS AND ALLIED PRODUCTS	41.8	42.0	41.7	41.8	41.9	3.5	3.7	3.5	3.5	-
281	Industrial inorganic chemicals	42.2	42.3	41.8	41.7	-	3.9	4.0	4.0	3.7	-
2819	Industrial inorganic chemicals, nec	41.3	41.6	41.5	41.4	-	3.4	3.6	3.4	3.2	-
282	Plastics materials and synthetics	42.4	42.4	42.1	41.8	-	3.4	3.4	3.5	3.5	-
2821	Plastics materials and resins	43.6	43.4	42.4	42.0	-	4.7	4.8	4.3	4.2	-
2824	Organic fibers, noncellulosic	41.7	41.9	42.1	41.7	-	2.5	2.6	3.0	3.0	-
283	Drugs	41.3	41.8	40.9	41.0	-	2.6	2.9	2.4	2.5	-
2834	Pharmaceutical preparations	40.6	41.0	40.4	40.3	-	2.5	2.8	2.4	2.4	-

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979	Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	\$271.35	\$275.37	\$289.04	\$295.20	-	\$6.70	\$6.70	\$7.19	\$7.20	-
2841	Soap and other detergents	384.52	380.16	410.40	420.78	-	8.68	8.64	9.50	9.52	-
2844	Toilet preparations	207.52	216.78	218.69	224.04	-	5.49	5.53	5.71	5.73	-
2842, 3	Polishing, sanitation, and finishing preparations	245.43	250.51	255.67	259.13	-	6.06	6.14	6.44	6.43	-
285	Paints and allied products	262.91	265.37	283.30	280.28	-	6.32	6.41	6.81	6.77	-
286	Industrial organic chemicals	347.73	358.24	392.34	392.30	-	8.24	8.37	9.04	9.06	-
2865	Cyclic crudes and intermediates	310.84	329.80	366.96	362.88	-	7.49	7.76	8.34	8.40	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	361.68	368.51	402.19	404.05	-	8.51	8.59	9.31	9.31	-
287	Agricultural chemicals	287.28	289.67	308.80	317.37	-	6.84	6.98	7.37	7.45	-
289	Miscellaneous chemical products	271.17	274.23	292.93	295.18	-	6.55	6.64	7.11	7.13	-
29	PETROLEUM AND COAL PRODUCTS	379.28	386.28	414.10	408.10	\$422.24	8.62	8.70	9.39	9.36	\$9.51
291	Petroleum refining	401.26	409.40	442.10	433.59	-	9.31	9.39	10.14	10.06	-
295	Paving and roofing materials	326.31	329.69	338.78	339.94	-	6.77	6.84	7.27	7.39	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	227.40	231.84	239.19	237.01	242.20	5.56	5.60	5.95	5.94	6.01
301	Tires and inner tubes	348.21	352.00	346.86	344.92	-	7.95	8.00	8.46	8.58	-
302	Rubber and plastics footwear	139.50	147.44	155.39	155.88	-	3.76	3.80	4.10	4.07	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	237.42	245.10	247.05	252.35	-	5.68	5.74	6.10	6.17	-
306	Fabricated rubber products, nec	212.78	217.71	225.72	229.82	-	5.28	5.31	5.70	5.76	-
307	Miscellaneous plastics products	204.93	209.41	221.10	218.25	-	5.06	5.12	5.50	5.47	-
31	LEATHER AND LEATHER PRODUCTS	144.35	145.04	154.61	154.03	157.50	3.87	3.92	4.19	4.22	4.28
311	Leather tanning and finishing	196.86	203.45	203.87	213.56	-	5.10	5.19	5.51	5.62	-
314	Footwear, except rubber	139.13	137.98	150.63	148.06	-	3.72	3.77	4.06	4.09	-
3143	Men's footwear, except athletic	147.45	146.25	157.78	158.47	-	3.87	3.90	4.23	4.26	-
3144	Women's footwear, except athletic	133.92	131.39	145.10	139.52	-	3.60	3.67	3.89	3.93	-
316	Luggage	148.78	159.89	153.79	160.28	-	4.11	4.23	4.32	4.44	-
317	Handbags and personal leather goods	138.38	141.38	147.57	151.50	-	3.70	3.75	4.01	4.04	-
	TRANSPORTATION AND PUBLIC UTILITIES	307.89	307.68	329.20	336.47	337.16	7.64	7.75	8.23	8.37	8.45
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	342.27	324.41	417.63	(*)	-	7.64	8.01	9.47	(*)	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	214.70	190.95	235.00	234.38	-	5.85	5.70	6.25	6.25	-
411	Local and suburban transportation	286.47	277.09	295.65	289.76	-	6.97	6.91	7.09	7.05	-
413	Intercity highway transportation	313.36	304.05	366.43	356.18	-	8.29	8.33	9.07	9.04	-
42	TRUCKING AND WAREHOUSING	318.71	321.17	334.27	338.89	-	7.85	7.93	8.42	8.43	-
421, 3	Trucking and trucking terminals	326.01	327.65	341.48	346.18	-	8.01	8.09	8.58	8.59	-
422	Public warehousing	218.51	223.97	230.23	233.19	-	5.56	5.67	5.98	6.01	-
46	PIPE LINES, EXCEPT NATURAL GAS	355.97	372.54	388.63	390.41	-	8.64	8.87	9.41	9.34	-
48	COMMUNICATION	302.30	305.92	301.25	329.64	-	7.52	7.61	7.55	8.20	-
481	Telephone communication	314.61	318.27	309.91	344.69	-	7.73	7.82	7.69	8.49	-
4817	Switchboard operating employees ³	229.91	227.74	216.92	238.66	-	6.44	6.47	6.38	7.04	-
4818	Line construction employees ⁴	431.41	437.81	416.22	482.33	-	9.44	9.58	9.27	10.44	-
483	Radio and television broadcasting	250.50	254.39	260.91	265.34	-	6.68	6.73	6.83	6.91	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	318.66	324.79	339.49	341.95	-	7.66	7.77	8.22	8.22	-
491	Electric services	323.53	330.36	347.36	349.03	-	7.74	7.81	8.33	8.33	-
492	Gas production and distribution	288.56	292.41	307.09	309.26	-	7.09	7.22	7.62	7.58	-
493	Combination utility services	354.05	363.32	376.90	380.38	-	8.47	8.63	9.06	9.10	-
495	Sanitary services	270.67	272.21	277.79	279.81	-	6.28	6.39	6.71	6.71	-
	WHOLESALE AND RETAIL TRADE	156.91	155.80	168.17	167.66	166.91	4.67	4.75	5.05	5.05	5.12
50, 51	WHOLESALE TRADE	230.88	234.39	249.21	248.96	251.04	5.92	6.01	6.39	6.40	6.47
50	WHOLESALE TRADE-DURABLE GOODS	234.04	236.79	251.37	251.77	-	5.91	6.01	6.38	6.39	-
501	Motor vehicles and automotive equipment	215.21	215.39	230.47	230.06	-	5.49	5.58	5.94	5.96	-
502	Furniture and home furnishings	202.77	203.74	227.24	228.05	-	5.35	5.39	5.98	5.97	-
503	Lumber and construction materials	239.60	244.40	256.31	257.00	-	5.99	6.11	6.44	6.49	-
504	Sporting goods, toys, and hobby goods	226.42	228.89	240.75	246.24	-	5.99	6.12	6.42	6.48	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979	Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979
	CHEMICALS AND ALLIED PRODUCTS—Cont'd										
284	Soap, cleaners, and toilet goods	40.5	41.1	40.2	41.0	-	3.3	3.8	2.9	2.9	-
2841	Soap and other detergents	44.3	44.0	43.2	44.2	-	5.7	5.8	5.1	4.9	-
2844	Toilet preparations	37.8	39.2	38.3	39.1	-	1.7	2.6	1.4	1.7	-
2842, 3	Polishing, sanitation, and finishing preparations	40.5	40.8	39.7	40.3	-	3.3	3.5	2.5	2.6	-
285	Paints and allied products	41.6	41.4	41.6	41.4	-	3.5	4.0	3.4	3.3	-
286	Industrial organic chemicals	42.2	42.8	43.4	43.3	-	3.7	4.3	4.4	4.6	-
2865	Cyclic crudes and intermediates	41.5	42.5	44.0	43.2	-	3.4	5.0	4.5	4.6	-
2861, 9	Gum, wood, and industrial organic chemicals, nec	42.5	42.9	43.2	43.4	-	3.8	4.1	4.4	4.6	-
287	Agricultural chemicals	42.0	41.5	41.9	42.6	-	4.4	4.8	4.3	4.7	-
289	Miscellaneous chemical products	41.4	41.3	41.2	41.4	-	3.4	3.6	3.1	3.8	-
29	PETROLEUM AND COAL PRODUCTS	44.0	44.4	44.1	43.6	44.4	4.4	4.7	4.5	4.4	-
291	Petroleum refining	43.1	43.6	43.6	43.1	-	3.2	3.7	3.7	3.6	-
295	Paving and roofing materials	48.2	48.2	46.6	46.0	-	9.1	9.0	8.0	7.9	-
30	RUBBER AND MISC. PLASTICS PRODUCTS	40.9	41.4	40.2	39.9	40.3	3.7	4.0	3.0	3.1	-
301	Tires and inner tubes	43.8	44.0	41.0	40.2	-	5.4	5.8	3.7	3.5	-
302	Rubber and plastics footwear	37.1	38.8	37.9	38.3	-	2.1	2.5	1.4	1.9	-
303, 4	Reclaimed rubber, and rubber and plastics hose and belting	41.8	42.7	40.5	40.9	-	4.3	4.9	4.2	4.3	-
306	Fabricated rubber products, nec	40.3	41.0	39.6	39.9	-	3.3	3.7	2.6	2.8	-
307	Miscellaneous plastics products	40.5	40.9	40.2	39.9	-	3.4	3.7	3.0	3.1	-
31	LEATHER AND LEATHER PRODUCTS	37.3	37.0	36.9	36.5	36.8	1.7	1.8	1.4	1.5	-
311	Leather tanning and finishing	38.6	39.2	37.0	38.0	-	2.4	2.8	1.8	2.0	-
314	Footwear, except rubber	37.4	36.6	37.1	36.2	-	1.7	1.5	1.4	1.5	-
3143	Men's footwear, except athletic	38.1	37.5	37.3	37.2	-	1.6	1.5	.9	1.4	-
3144	Women's footwear, except athletic	37.2	35.8	37.3	35.5	-	2.1	1.8	2.1	1.6	-
316	Luggage	36.2	37.8	35.6	36.1	-	1.5	2.7	.9	.5	-
317	Handbags and personal leather goods	37.4	37.7	36.8	37.5	-	2.1	2.5	1.6	2.1	-
-	TRANSPORTATION AND PUBLIC UTILITIES	40.3	39.7	40.0	40.2	39.9	-	-	-	-	-
	RAILROAD TRANSPORTATION:										
4011	Class I railroads ²	44.8	40.5	44.1	(*)	-	-	-	-	-	-
41	LOCAL AND INTERURBAN PASSENGER TRANSIT	36.7	33.5	37.6	37.5	-	-	-	-	-	-
411	Local and suburban transportation	41.1	40.1	41.7	41.1	-	-	-	-	-	-
413	Intercity highway transportation	37.8	36.5	40.4	39.4	-	-	-	-	-	-
42	TRUCKING AND WAREHOUSING	40.6	40.5	39.7	40.2	-	-	-	-	-	-
421, 3	Trucking and trucking terminals	40.7	40.5	39.8	40.3	-	-	-	-	-	-
422	Public warehousing	39.3	39.5	38.5	38.8	-	-	-	-	-	-
46	PIPE LINES, EXCEPT NATURAL GAS	41.2	42.0	41.3	41.8	-	-	-	-	-	-
48	COMMUNICATION	40.2	40.2	39.9	40.2	-	-	-	-	-	-
481	Telephone communication	40.7	40.7	40.3	40.6	-	-	-	-	-	-
4817	Switchboard operating employees ³	35.7	35.2	34.0	33.9	-	-	-	-	-	-
4818	Line construction employees ⁴	45.7	45.7	44.9	46.2	-	-	-	-	-	-
483	Radio and television broadcasting	37.5	37.8	38.2	38.4	-	-	-	-	-	-
49	ELECTRIC, GAS, AND SANITARY SERVICES	41.6	41.8	41.3	41.6	-	-	-	-	-	-
491	Electric services	41.8	42.3	41.7	41.9	-	-	-	-	-	-
492	Gas production and distribution	40.7	40.5	40.3	40.8	-	-	-	-	-	-
493	Combination utility services	41.8	42.1	41.6	41.8	-	-	-	-	-	-
495	Sanitary services	43.1	42.6	41.4	41.7	-	-	-	-	-	-
-	WHOLESALE AND RETAIL TRADE	33.6	32.8	33.3	33.2	32.6	-	-	-	-	-
50, 51	WHOLESALE TRADE	39.0	39.0	39.0	38.9	38.8	-	-	-	-	-
50	WHOLESALE TRADE-DURABLE GOODS	39.6	39.4	39.4	39.4	-	-	-	-	-	-
501	Motor vehicles and automotive equipment	39.2	38.6	38.8	38.6	-	-	-	-	-	-
502	Furniture and home furnishings	37.9	37.8	38.0	38.2	-	-	-	-	-	-
503	Lumber and construction materials	40.0	40.0	39.8	39.6	-	-	-	-	-	-
504	Sporting goods, toys, and hobby goods	37.8	37.4	37.5	38.0	-	-	-	-	-	-

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1978	Sept. 1978	July 1979	Aug. ^p 1979 ^p	Sept. ^p 1979 ^p	Aug. 1978	Sept. 1978	July 1979	Aug. ^p 1979 ^p	Sept. ^p 1979 ^p
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	\$267.92	\$269.60	\$291.00	\$301.66	-	\$6.80	\$6.86	\$7.33	\$7.43	-
506	Electrical goods	233.24	238.55	250.65	251.79	-	5.95	6.07	6.46	6.54	-
507	Hardware, plumbing, and heating equipment	220.77	221.76	236.78	237.31	-	5.69	5.76	6.15	6.18	-
508	Machinery, equipment, and supplies	247.63	252.05	265.72	264.11	-	6.16	6.27	6.61	6.57	-
509	Miscellaneous durable goods	199.87	202.54	211.38	216.31	-	5.06	5.18	5.42	5.49	-
51	WHOLESALE TRADE-NONDURABLE GOODS	225.55	229.80	246.14	244.86	-	5.92	6.00	6.41	6.41	-
511	Paper and paper products	259.47	262.79	271.50	275.96	-	7.07	7.18	7.50	7.54	-
512	Drugs, proprietaries, and sundries	231.87	238.08	247.76	245.70	-	6.07	6.20	6.52	6.50	-
513	Apparel, piece goods, and notions	198.56	203.32	220.29	218.96	-	5.44	5.54	5.97	5.95	-
514	Groceries and related products	230.83	232.16	251.02	248.97	-	5.98	6.03	6.42	6.45	-
516	Chemicals and allied products	261.97	268.62	293.10	297.00	-	6.70	6.87	7.49	7.50	-
517	Petroleum and petroleum products	274.53	281.16	305.69	302.97	-	6.95	7.10	7.70	7.67	-
518	Beer, wine, and distilled beverages	267.57	268.46	276.40	273.06	-	7.06	7.14	7.43	7.36	-
519	Miscellaneous nondurable goods	181.23	188.05	200.93	201.46	-	4.82	4.91	5.26	5.26	-
52-59	RETAIL TRADE	133.24	131.33	142.07	141.93	\$140.15	4.19	4.25	4.51	4.52	\$4.58
52	BUILDING MATERIALS AND GARDEN SUPPLIES	183.22	183.16	192.50	194.43	-	4.71	4.82	5.00	5.05	-
521	Lumber and other building materials	203.77	202.00	212.22	214.52	-	4.97	5.05	5.24	5.31	-
525	Hardware stores	137.35	137.36	149.39	150.30	-	3.88	3.97	4.22	4.27	-
53	GENERAL MERCHANDISE STORES	123.11	119.02	133.59	133.76	-	4.09	4.09	4.38	4.40	-
531	Department stores	127.93	123.68	139.84	140.00	-	4.25	4.25	4.57	4.59	-
533	Variety stores	102.12	97.47	110.77	109.80	-	3.45	3.42	3.62	3.60	-
539	Misc. general merchandise stores	98.56	94.96	107.01	105.65	-	3.20	3.23	3.52	3.51	-
54	FOOD STORES	171.93	170.45	185.23	183.71	-	5.21	5.31	5.63	5.67	-
541	Grocery stores	178.49	177.55	192.81	190.64	-	5.36	5.48	5.79	5.83	-
546	Retail bakeries	119.17	115.24	132.58	132.14	-	3.92	3.96	4.39	4.39	-
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	189.62	186.63	205.13	205.13	-	4.99	4.99	5.37	5.37	-
551, 2	New and used car dealers	232.32	229.58	241.57	244.29	-	6.05	6.01	6.21	6.28	-
553	Auto and home supply stores	188.13	184.13	200.65	200.16	-	4.49	4.48	4.93	4.87	-
554	Gasoline service stations	130.31	128.06	146.06	146.93	-	3.64	3.68	4.08	4.07	-
56	APPAREL AND ACCESSORY STORES	112.48	111.59	120.50	118.21	-	3.70	3.77	4.03	3.98	-
561	Men's and boys' clothing and furnishings	137.15	138.02	151.07	149.70	-	4.22	4.26	4.62	4.55	-
562	Women's ready-to-wear stores	98.84	96.88	107.22	104.99	-	3.42	3.46	3.71	3.71	-
565	Family clothing stores	110.49	109.91	114.76	113.66	-	3.53	3.58	3.89	3.84	-
566	Shoe stores	120.78	124.20	127.41	123.49	-	3.96	4.21	4.29	4.13	-
57	FURNITURE AND HOME FURNISHINGS STORES	173.04	173.46	184.25	185.44	-	4.82	4.90	5.19	5.18	-
571	Furniture and home furnishings	177.86	176.75	188.15	189.92	-	5.01	5.05	5.33	5.32	-
572	Household appliance stores	184.50	186.58	199.47	200.20	-	4.92	5.07	5.48	5.50	-
573	Radio, television, and music stores	153.06	156.72	164.72	164.01	-	4.24	4.39	4.64	4.62	-
56	EATING AND DRINKING PLACES⁵	90.24	88.35	94.26	93.98	-	3.20	3.26	3.44	3.43	-
59	MISCELLANEOUS RETAIL	135.30	133.22	146.17	147.27	-	4.10	4.15	4.47	4.49	-
591	Drug stores and proprietary stores	123.97	120.67	133.81	132.89	-	3.85	3.88	4.13	4.14	-
594	Miscellaneous shopping goods stores	123.77	121.20	132.82	134.20	-	3.82	3.86	4.19	4.22	-
596	Nonstore retailers	167.17	166.41	181.17	184.28	-	4.79	4.88	5.36	5.42	-
596	Fuel and ice dealers	199.21	205.52	221.38	222.91	-	5.27	5.38	5.75	5.76	-
599	Retail stores, nec	135.79	135.24	154.47	152.78	-	4.14	4.20	4.57	4.52	-
-	FINANCE, INSURANCE, AND REAL ESTATE⁶	179.71	180.91	192.56	191.50	194.39	4.91	4.97	5.29	5.29	5.37
60	BANKING	154.45	155.92	165.71	163.62	-	4.22	4.26	4.54	4.52	-
602	Commercial and stock savings banks	151.16	152.62	163.16	161.09	-	4.13	4.17	4.47	4.45	-
61	CREDIT AGENCIES OTHER THAN BANKS	163.84	163.60	174.17	173.33	-	4.44	4.47	4.72	4.71	-
612	Savings and loan associations	154.34	154.21	168.82	164.71	-	4.24	4.26	4.60	4.55	-
614	Personal credit institutions	160.95	160.31	168.54	170.94	-	4.35	4.38	4.58	4.62	-
63	INSURANCE CARRIERS	195.83	196.42	209.62	212.01	-	5.25	5.28	5.65	5.73	-
631	Life insurance	194.09	194.99	207.89	210.08	-	5.26	5.27	5.68	5.74	-
632	Medical service and health insurance	186.73	188.38	207.20	208.10	-	4.94	5.01	5.54	5.52	-
633	Fire, marine, and casualty insurance	199.18	199.23	210.53	213.65	-	5.34	5.37	5.69	5.79	-

See footnotes at end of table.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979	Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979
	WHOLESALE TRADE-DURABLE GOODS—Continued										
505	Metals and minerals, except petroleum	39.4	39.3	39.7	40.6	-	-	-	-	-	
506	Electrical goods	39.2	39.3	38.8	38.5	-	-	-	-	-	
507	Hardware, plumbing, and heating equipment	38.8	38.5	38.5	38.4	-	-	-	-	-	
508	Machinery, equipment, and supplies	40.2	40.2	40.2	40.2	-	-	-	-	-	
509	Miscellaneous durable goods	39.5	39.1	39.0	39.4	-	-	-	-	-	
51	WHOLESALE TRADE-NONDURABLE GOODS ..	38.1	38.3	38.4	38.2	-	-	-	-	-	
511	Paper and paper products	36.7	36.6	36.2	36.6	-	-	-	-	-	
512	Drugs, proprietaries, and sundries	38.2	38.4	38.0	37.8	-	-	-	-	-	
513	Apparel, piece goods, and notions	36.5	36.7	36.9	36.8	-	-	-	-	-	
514	Groceries and related products	38.6	38.5	39.1	38.6	-	-	-	-	-	
516	Chemicals and allied products	39.1	39.1	39.8	39.6	-	-	-	-	-	
517	Petroleum and petroleum products	39.5	39.6	39.7	39.5	-	-	-	-	-	
518	Beer, wine, and distilled beverages	37.9	37.6	37.2	37.1	-	-	-	-	-	
519	Miscellaneous nondurable goods	37.6	38.3	38.2	38.3	-	-	-	-	-	
52-59	RETAIL TRADE	31.8	30.9	31.5	31.4	30.6	-	-	-	-	
52	BUILDING MATERIALS AND GARDEN SUPPLIES										
521	Lumber and other building materials	41.0	40.0	40.5	40.4	-	-	-	-	-	
525	Hardware stores	35.4	34.6	35.4	35.2	-	-	-	-	-	
53	GENERAL MERCHANDISE STORES	30.1	29.1	30.5	30.4	-	-	-	-	-	
531	Department stores	30.1	29.1	30.6	30.5	-	-	-	-	-	
533	Variety stores	29.6	28.5	30.6	30.5	-	-	-	-	-	
539	Misc. general merchandise stores	30.8	29.4	30.4	30.1	-	-	-	-	-	
54	FOOD STORES	33.0	32.1	32.9	32.4	-	-	-	-	-	
541	Grocery stores	33.3	32.4	33.3	32.7	-	-	-	-	-	
546	Retail bakeries	30.4	29.1	30.2	30.1	-	-	-	-	-	
55	AUTOMOTIVE DEALERS AND SERVICE STATIONS	38.0	37.4	38.2	38.2	-	-	-	-	-	
551.2	New and used car dealers	38.4	38.2	38.9	38.9	-	-	-	-	-	
553	Auto and home supply stores	41.9	41.1	40.7	41.1	-	-	-	-	-	
554	Gasoline service stations	35.8	34.8	35.8	36.1	-	-	-	-	-	
56	APPAREL AND ACCESSORY STORES	30.4	29.6	29.9	29.7	-	-	-	-	-	
561	Men's and boys' clothing and furnishings	32.5	32.4	32.7	32.9	-	-	-	-	-	
562	Women's ready-to-wear stores	28.9	28.0	28.9	28.3	-	-	-	-	-	
565	Family clothing stores	31.3	30.7	29.5	29.6	-	-	-	-	-	
566	Shoe stores	30.5	29.5	29.7	29.9	-	-	-	-	-	
57	FURNITURE AND HOME FURNISHINGS STORES	35.9	35.4	35.5	35.8	-	-	-	-	-	
571	Furniture and home furnishings	35.5	35.0	35.3	35.7	-	-	-	-	-	
572	Household appliance stores	37.5	36.8	36.4	36.4	-	-	-	-	-	
573	Radio, television, and music stores	36.1	35.7	35.5	35.5	-	-	-	-	-	
58	EATING AND DRINKING PLACES	28.2	27.1	27.4	27.4	-	-	-	-	-	
59	MISCELLANEOUS RETAIL	33.0	32.1	32.7	32.8	-	-	-	-	-	
591	Drug stores and proprietary stores	32.2	31.1	32.4	32.1	-	-	-	-	-	
594	Miscellaneous shopping goods stores	32.4	31.4	31.7	31.8	-	-	-	-	-	
596	Nonstore retailers	34.9	34.1	33.8	34.0	-	-	-	-	-	
598	Fuel and ice dealers	37.8	38.2	38.5	38.7	-	-	-	-	-	
599	Retail stores, nec	32.8	32.2	33.8	33.8	-	-	-	-	-	
-	FINANCE, INSURANCE, AND REAL ESTATE	36.6	36.4	36.4	36.2	36.2	-	-	-	-	
60	BANKING	36.6	36.6	36.5	36.2	-	-	-	-	-	
602	Commercial and stock savings banks	36.6	36.6	36.5	36.2	-	-	-	-	-	
61	CREDIT AGENCIES OTHER THAN BANKS	36.9	36.6	36.9	36.8	-	-	-	-	-	
612	Savings and loan associations	36.4	36.2	36.7	36.2	-	-	-	-	-	
614	Personal credit institutions	37.0	36.6	36.8	37.0	-	-	-	-	-	
63	INSURANCE CARRIERS	37.3	37.2	37.1	37.0	-	-	-	-	-	
631	Life insurance	36.9	37.0	36.6	36.6	-	-	-	-	-	
632	Medical service and health insurance	37.8	37.6	37.4	37.7	-	-	-	-	-	
633	Fire, marine, and casualty insurance	37.3	37.1	37.0	36.9	-	-	-	-	-	

See footnotes at end of table.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

1972 SIC Code	Industry	Average weekly earnings					Average hourly earnings				
		Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^p	Sept. 1979 ^p	Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^p	Sept. 1979 ^p
-	SERVICES	\$163.68	\$165.14	\$176.16	\$175.96	\$177.56	\$4.93	\$5.05	\$5.29	\$5.30	\$5.43
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	114.60	114.50	126.40	125.05	-	3.57	3.67	3.95	3.92	-
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	131.54	130.79	142.00	142.07	-	3.78	3.78	4.14	4.13	-
723	Beauty shops	118.50	119.45	129.98	127.20	-	3.86	3.78	4.22	4.13	-
73	BUSINESS SERVICES	168.48	167.89	180.84	180.18	-	5.09	5.15	5.48	5.46	-
731	Advertising	259.20	259.56	270.51	270.47	-	7.18	7.19	7.62	7.39	-
734	Services to buildings	122.82	122.40	130.97	129.88	-	4.45	4.50	4.78	4.74	-
737	Computer and data processing services	213.49	216.22	236.06	233.87	-	5.77	5.94	6.38	6.39	-
75	AUTO REPAIR, SERVICES, AND GARAGES	192.91	190.32	212.06	217.16	-	5.05	5.13	5.61	5.67	-
753	Automotive repair shops	216.11	214.34	230.29	237.80	-	5.43	5.51	5.92	5.99	-
76	MISCELLANEOUS REPAIR SERVICES	245.62	251.32	262.92	263.49	-	5.11	6.10	6.46	6.49	-
78	MOTION PICTURES	184.30	183.48	183.26	195.05	-	6.29	6.60	6.43	6.82	-
781	Motion picture production and services	363.44	368.24	369.10	397.41	-	9.44	9.54	9.44	10.19	-
79	AMUSEMENT AND RECREATION SERVICES	144.82	145.66	157.23	156.46	-	4.31	4.76	4.75	4.77	-
80	HEALTH SERVICES	159.51	161.35	172.86	171.46	-	4.79	4.86	5.16	5.18	-
801	Offices of physicians	164.67	169.50	176.25	174.95	-	4.96	5.09	5.39	5.35	-
802	Offices of dentists	137.47	135.78	148.03	146.72	-	4.66	4.65	5.14	5.13	-
805	Nursing and personal care facilities	112.05	111.91	123.31	119.58	-	3.58	3.61	3.89	3.87	-
806	Hospitals	175.10	177.33	189.81	190.44	-	5.09	5.17	5.47	5.52	-
81	LEGAL SERVICES	212.50	212.02	235.64	230.86	-	6.25	6.31	6.89	6.77	-
89	MISCELLANEOUS SERVICES	274.94	277.40	291.82	293.76	-	7.16	7.30	7.72	7.67	-
891	Engineering and architectural services	294.39	299.54	311.42	315.83	-	7.51	7.72	8.11	8.14	-
893	Accounting, auditing, and bookkeeping	238.52	236.86	260.73	255.15	-	6.31	6.35	6.99	6.75	-

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

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

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

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

⁵ Money payments only; tips, not included.

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

* Not available.

p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

1972 SIC Code	Industry	Average weekly hours					Average overtime hours				
		Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979	Aug. 1978	Sept. 1978	July 1979	Aug. p 1979	Sept. p 1979
-	SERVICES	33.2	32.7	33.3	33.2	32.7	-	-	-	-	-
	HOTELS AND OTHER LODGING PLACES:										
701	Hotels, motels, and tourist courts	32.1	31.2	32.0	31.9	-	-	-	-	-	
	PERSONAL SERVICES:										
721	Laundry, cleaning, and garment services	34.8	34.6	34.3	34.4	-	-	-	-	-	
723	Beauty shops	30.7	31.6	30.8	30.8	-	-	-	-	-	
73	BUSINESS SERVICES	33.1	32.6	33.0	33.0	-	-	-	-	-	
731	Advertising	36.1	36.1	35.5	36.6	-	-	-	-	-	
734	Services to buildings	27.6	27.2	27.4	27.4	-	-	-	-	-	
737	Computer and data processing services	37.0	36.4	37.0	36.6	-	-	-	-	-	
75	AUTO REPAIR, SERVICES, AND GARAGES	38.2	37.1	37.8	38.3	-	-	-	-	-	
753	Automotive repair shops	39.8	38.9	38.9	39.7	-	-	-	-	-	
76	MISCELLANEOUS REPAIR SERVICES	40.2	41.2	40.7	40.6	-	-	-	-	-	
78	MOTION PICTURES	29.3	27.8	28.5	28.6	-	-	-	-	-	
781	Motion picture production and services	38.5	38.6	39.1	39.0	-	-	-	-	-	
79	AMUSEMENT AND RECREATION SERVICES	33.6	30.6	33.1	32.8	-	-	-	-	-	
80	HEALTH SERVICES	33.3	33.2	33.5	33.1	-	-	-	-	-	
801	Offices of physicians	33.2	33.3	32.7	32.7	-	-	-	-	-	
802	Offices of dentists	29.5	29.2	28.8	28.6	-	-	-	-	-	
805	Nursing and personal care facilities	31.3	31.0	31.7	30.9	-	-	-	-	-	
806	Hospitals	34.4	34.3	34.7	34.5	-	-	-	-	-	
81	LEGAL SERVICES	34.0	33.6	34.2	34.1	-	-	-	-	-	
89	MISCELLANEOUS SERVICES	38.4	38.0	37.8	38.3	-	-	-	-	-	
891	Engineering and architectural services	39.2	38.8	38.4	38.8	-	-	-	-	-	
893	Accounting, auditing, and bookkeeping	37.8	37.3	37.3	37.8	-	-	-	-	-	

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	1978								1979				
	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May
Executive Branch													
Total employment	2,702.9	2,747.5	2,760.3	2,738.5	2,691.9	2,694.5	2,694.4	2,681.2	2,677.5	2,686.3	2,688.3	2,697.4	2,720.3
Average weekly hours	39.5	39.6	39.8	39.7	39.5	39.9	39.9	40.1	39.7	39.7	39.5	39.5	39.4
Average overtime hours	1.1	1.1	1.2	1.2	1.3	1.3	1.2	1.5	1.2	1.1	1.1	1.1	1.0
Indexes (1967=100):													
Average weekly earnings	226.0	226.5	227.7	226.8	230.0	242.0	239.2	244.3	243.2	242.4	240.6	239.8	238.9
Average hourly earnings	225.4	225.4	225.4	225.1	229.5	238.9	242.2	240.0	241.4	240.5	240.0	239.2	238.9
Department of Defense													
Total employment	911.3	924.8	927.1	918.6	905.4	905.8	905.3	902.0	896.0	895.0	892.0	890.0	896.6
Average weekly hours	40.0	40.0	40.1	40.1	39.7	39.9	40.0	39.8	39.9	39.9	39.9	39.9	39.9
Average overtime hours .....	.9	1.0	.9	1.0	1.2	1.0	.8	.9	.8	.9	.9	.8	.8
Indexes (1967=100):													
Average weekly earnings	222.0	221.5	220.4	221.2	223.3	232.5	233.7	234.1	234.7	234.7	235.2	234.4	235.2
Average hourly earnings	223.7	223.2	221.5	222.3	226.7	234.9	235.4	237.1	237.1	237.1	237.6	236.8	237.6
Postal Service													
Total employment	648.3	648.3	647.5	649.0	651.9	646.9	651.4	651.4	653.0	655.2	655.4	655.0	659.5
Average weekly hours	39.9	40.0	40.2	39.9	39.7	41.5	41.2	42.6	41.2	41.0	40.2	40.2	39.8
Average overtime hours	1.5	1.6	1.8	1.5	1.8	2.3	1.9	3.1	2.6	1.8	1.6	1.7	1.3
Indexes (1967=100):													
Average weekly earnings	254.3	259.7	261.9	260.3	259.3	278.7	275.9	289.4	280.8	276.9	271.5	271.8	268.1
Average hourly earnings	246.0	250.6	251.5	251.8	252.1	259.5	258.5	262.2	263.1	260.7	260.7	261.0	260.1
Other Agencies													
Total employment	1,143.3	1,174.4	1,185.7	1,170.9	1,134.6	1,141.8	1,137.7	1,127.8	1,128.5	1,136.1	1,140.9	1,152.4	1,164.2
Average weekly hours	38.8	39.0	39.3	39.3	39.1	39.0	39.0	38.8	38.7	38.8	38.8	38.8	38.8
Average overtime hours	1.0	1.0	1.1	1.2	1.2	1.1	1.0	1.0	.9	1.0	1.0	1.0	1.1
Indexes (1967=100):													
Average weekly earnings	213.4	212.0	214.6	213.4	218.3	229.1	231.4	227.7	229.9	229.7	227.7	226.7	226.0
Average hourly earnings	213.4	210.9	211.9	210.6	216.6	228.0	230.2	227.7	230.4	229.7	227.7	226.7	226.0

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

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

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

Major industry group	Average hourly earnings excluding overtime ¹				
	Aug. 1978	Sept. 1978	July 1979	Aug. 1979 ^p	Sept. 1979 ^p
MANUFACTURING	\$5.90	\$5.99	\$6.45	\$6.43	\$6.50
DURABLE GOODS	6.28	6.39	6.86	6.84	6.93
Lumber and wood products	5.41	5.48	5.97	5.95	-
Furniture and fixtures	4.56	4.59	4.92	4.95	-
Stone, clay, and glass products	6.03	6.10	6.52	6.53	-
Primary metal industries	7.91	8.00	8.64	8.70	-
Fabricated metal products	6.07	6.14	6.54	6.56	-
Machinery, except electrical	6.44	6.54	7.04	7.03	-
Electric and electronic equipment	5.66	5.71	6.08	6.16	-
Transportation equipment	7.38	7.55	8.12	8.05	-
Instruments and related products	5.56	5.58	6.01	5.97	-
Miscellaneous manufacturing industries	4.56	4.58	4.91	4.89	-
NONDURABLE GOODS	5.34	5.38	5.81	5.80	5.84
Food and kindred products	5.51	5.56	5.97	5.95	-
Tobacco manufactures	6.00	5.76	6.74	6.58	-
Textile mill products	4.19	4.22	4.48	4.57	-
Apparel and other textile products	3.86	3.92	4.17	4.15	-
Paper and allied products	6.21	6.27	6.78	6.81	-
Printing and publishing	6.27	6.31	6.67	6.69	-
Chemicals and allied products	6.78	6.83	7.30	7.34	-
Petroleum and coal products	8.21	8.26	8.93	8.90	-
Rubber and misc. plastics products	5.32	5.34	5.73	5.72	-
Leather and leather products	3.78	3.83	4.11	4.14	-

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

p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

Industry	Gross average weekly earnings			Spendable average weekly earnings ²					
				Worker with no dependents			Married worker with 3 dependents		
	Aug. 1978	July 1979	Aug.-p 1979 ^p	Aug. 1978	July 1979	Aug.-p 1979 ^p	Aug. 1978	July 1979	Aug.-p 1979 ^p
TOTAL PRIVATE:									
Current dollars	\$206.70	\$221.76	\$222.84	\$167.55	\$179.35	\$180.13	\$182.96	\$196.26	\$197.11
1967 dollars	104.55	101.08	100.60	84.75	81.75	81.32	92.54	89.45	88.99
MINING:									
Current dollars	337.31	355.28	365.49	255.12	269.13	275.65	279.69	296.10	303.54
1967 dollars	170.62	161.93	165.01	129.04	122.67	124.45	141.47	134.96	137.04
CONSTRUCTION:									
Current dollars	329.99	348.35	354.16	250.51	264.70	268.41	274.43	291.05	295.29
1967 dollars	166.91	158.77	159.89	126.71	120.65	121.18	138.81	132.66	133.31
MANUFACTURING:									
Current dollars	249.27	267.73	267.60	197.40	211.61	211.52	214.87	231.16	231.06
1967 dollars	126.08	122.03	120.81	99.85	96.45	95.49	108.68	105.36	104.32
TRANSPORTATION AND PUBLIC UTILITIES:									
Current dollars	307.89	329.20	336.47	236.23	252.47	257.11	258.53	277.10	282.40
1967 dollars	155.74	150.05	151.91	119.49	115.07	116.08	130.77	126.30	127.49
WHOLESALE AND RETAIL TRADE:									
Current dollars	156.91	168.17	167.66	131.27	140.00	139.62	144.65	157.26	156.91
1967 dollars	79.37	76.65	75.69	66.40	63.81	63.03	73.17	71.68	70.84
FINANCE, INSURANCE, AND REAL ESTATE:									
Current dollars	179.71	192.56	191.50	148.13	158.07	157.30	162.41	173.53	172.80
1967 dollars	90.90	87.77	86.46	74.93	72.05	71.02	82.15	79.09	78.01
SERVICES:									
Current dollars	163.68	176.16	175.96	136.35	145.98	145.83	149.93	162.64	162.50
1967 dollars	82.79	80.29	79.44	68.97	66.54	65.84	75.84	74.13	73.36
CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W, All items, 1967=100)	199.7	219.4	221.5						

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

^p=preliminary (applicable to earnings data only).

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

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA HOURS AND EARNINGS

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

[1967=100]

Industry division and group	Aug. 1978	Sept. 1978	July 1979	Aug. ^p 1979 ^p	Sept. ^p 1979 ^p
	Hours				
TOTAL PRIVATE	124.6	124.2	127.9	128.1	127.6
GOODS-PRODUCING	109.4	111.0	110.8	111.6	113.1
MINING	149.9	149.6	152.3	158.8	160.5
CONSTRUCTION	138.7	136.0	147.4	150.3	147.4
MANUFACTURING	102.8	105.3	102.8	103.1	105.3
DURABLE GOODS	103.8	107.5	105.9	104.6	107.9
Lumber and wood products	117.7	116.3	115.9	117.9	118.6
Furniture and fixtures	109.8	110.9	101.5	105.1	105.9
Stone, clay, and glass products	115.1	114.7	114.7	115.2	113.7
Primary metal industries	95.3	98.0	97.9	95.1	96.4
Fabricated metal products	103.5	106.2	104.2	104.5	106.8
Machinery, except electrical	107.5	111.3	114.6	113.3	117.2
Electric and electronic equipment	102.3	104.5	105.3	104.0	107.4
Transportation equipment	92.5	103.6	96.8	89.5	98.5
Instruments and related products	123.3	124.7	126.2	126.3	128.1
Miscellaneous manufacturing industries	103.5	106.0	96.0	102.8	105.6
NONDURABLE GOODS	101.3	102.1	98.3	100.8	101.6
Food and kindred products	104.4	105.6	98.4	104.8	106.6
Tobacco manufactures	75.2	83.0	61.6	70.4	75.4
Textile mill products	91.5	92.1	87.5	89.8	90.8
Apparel and other textile products	93.1	93.6	86.6	89.0	88.1
Paper and allied products	100.5	101.0	103.3	104.3	104.6
Printing and publishing	100.1	100.1	103.2	104.7	105.7
Chemicals and allied products	107.5	107.7	108.6	108.4	108.5
Petroleum and coal products	125.9	125.8	129.0	128.1	129.9
Rubber and misc. plastics products	146.8	150.4	146.5	145.0	146.4
Leather and leather products	71.9	70.5	60.5	65.3	65.5
SERVICE-PRODUCING	135.2	133.3	139.8	139.6	137.8
TRANSPORTATION AND PUBLIC UTILITIES	111.2	110.6	115.8	116.5	116.3
WHOLESALE AND RETAIL TRADE	130.8	128.9	132.8	132.5	130.7
WHOLESALE TRADE	129.4	129.4	134.2	134.0	133.6
RETAIL TRADE	131.4	128.6	132.3	132.0	129.5
FINANCE, INSURANCE, AND REAL ESTATE	142.8	141.1	148.8	148.8	146.9
SERVICES	150.2	147.6	157.7	157.4	154.8

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

p = preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
HOURS AND EARNINGS**

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

[1967=100]

Industry division and group	Aug. 1978	Sept. 1978	July 1979	Aug. ^P 1979 ^P	Sept. 1979 ^P
	Payrolls				
TOTAL PRIVATE	265.6	269.8	294.1	295.7	299.7
GOODS-PRODUCING	242.7	250.2	266.6	268.8	275.8
MINING	366.5	372.9	406.9	422.3	432.4
CONSTRUCTION	294.5	293.6	331.2	340.4	339.6
MANUFACTURING	224.5	234.2	244.4	244.3	253.2
DURABLE GOODS	227.6	240.5	252.6	248.6	260.5
Lumber and wood products.....	282.3	282.4	305.1	310.5	317.3
Furniture and fixtures.....	222.7	227.1	220.1	230.4	235.3
Stone, clay, and glass products.....	261.5	263.3	280.4	281.9	281.7
Primary metal industries.....	237.3	247.2	265.1	259.1	263.5
Fabricated metal products.....	220.6	229.9	238.1	239.6	248.2
Machinery, except electrical.....	227.7	240.5	264.2	261.3	275.0
Electric and electronic equipment.....	216.2	223.5	238.1	238.5	249.2
Transportation equipment.....	209.7	242.4	241.0	220.0	246.8
Instruments and related products.....	248.0	252.5	272.8	272.3	279.5
Miscellaneous manufacturing industries.....	207.1	213.6	205.5	220.3	227.7
NONDURABLE GOODS	219.2	223.3	230.4	236.9	240.9
Food and kindred products.....	229.9	235.2	234.3	249.3	254.3
Tobacco manufactures.....	204.3	217.1	185.3	207.8	225.1
Textile mill products.....	194.7	198.0	197.9	208.2	212.3
Apparel and other textile products.....	180.5	184.3	180.4	184.7	185.1
Paper and allied products.....	230.4	234.9	257.7	261.8	264.6
Printing and publishing.....	199.5	201.5	217.3	222.1	227.3
Chemicals and allied products.....	244.5	247.4	266.0	267.2	269.0
Petroleum and coal products.....	303.3	305.9	338.7	335.0	345.4
Rubber and misc. plastics products.....	297.2	306.7	317.4	313.8	320.7
Leather and leather products.....	134.6	133.9	122.6	133.4	135.6
SERVICE-PRODUCING	285.4	286.6	317.8	319.0	320.2
TRANSPORTATION AND PUBLIC UTILITIES	262.7	265.1	294.6	301.5	303.9
WHOLESALE AND RETAIL TRADE	271.4	271.6	297.5	297.3	297.0
WHOLESALE TRADE	266.2	270.3	298.0	298.0	300.5
RETAIL TRADE	274.3	272.2	297.3	296.9	295.0
FINANCE, INSURANCE, AND REAL ESTATE	271.4	271.7	305.0	304.6	305.5
SERVICES	323.7	325.9	364.4	364.2	366.9

ESTABLISHMENT DATA SEASONALLY ADJUSTED HOURS

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

Industry	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
TOTAL PRIVATE	35.8	35.8	35.8	35.8	35.8	35.7	35.9	35.3	35.7	35.6	35.6	35.6	35.6
MINING	43.1	43.1	43.3	43.4	43.4	43.1	43.1	42.9	42.8	43.0	41.6	43.2	43.3
CONSTRUCTION	37.0	36.9	36.8	37.0	37.1	36.6	37.1	35.5	37.1	37.2	36.8	37.2	37.6
MANUFACTURING	40.5	40.5	40.6	40.6	40.6	40.6	40.6	39.1	40.2	40.1	40.2	40.1	40.0
<i>Overtime hours</i>	3.6	3.6	3.7	3.7	3.7	3.7	3.7	2.7	3.5	3.4	-	.0	-
DURABLE GOODS	41.2	41.3	41.3	41.4	41.4	41.4	41.4	39.5	40.9	40.7	40.7	40.6	40.5
<i>Overtime hours</i>	3.8	3.9	4.0	4.0	4.1	4.1	4.0	2.7	3.8	3.6	3.5	3.3	3.3
Lumber and wood products	39.6	40.0	40.0	39.9	39.9	39.6	40.0	39.1	39.4	39.4	39.3	39.6	39.9
Furniture and fixtures	39.1	39.1	39.1	39.2	38.9	38.8	39.1	38.1	38.5	38.5	38.4	38.1	37.9
Stone, clay, and glass products	41.8	41.9	41.9	41.9	41.8	41.6	42.0	41.2	41.7	41.6	41.4	41.4	41.1
Primary metal industries	42.0	42.2	42.2	42.2	42.3	42.2	42.0	41.8	41.4	41.2	41.3	41.0	40.6
Fabricated metal products	41.1	40.9	41.1	41.3	41.1	41.3	41.3	39.1	40.7	40.7	40.8	40.6	40.6
Machinery, except electrical	42.1	42.0	42.2	42.4	42.3	42.5	42.4	40.5	42.0	42.0	41.9	41.5	41.7
Electric and electronic equipment	40.3	40.4	40.4	40.5	40.5	40.7	40.7	39.0	40.4	40.3	40.2	39.7	39.9
Transportation equipment	42.6	42.7	42.7	42.8	42.8	42.7	42.3	37.9	41.5	40.8	40.9	41.6	40.5
Instruments and related products	41.0	40.9	40.9	40.9	41.1	41.2	41.2	40.3	40.8	40.6	40.7	40.4	40.6
Miscellaneous manufacturing ind	39.0	38.9	38.9	38.9	39.0	39.0	39.0	37.6	38.6	38.9	39.3	39.0	38.9
NONDURABLE GOODS	39.5	39.4	39.5	39.4	39.5	39.3	39.4	38.6	39.2	39.2	39.2	39.2	39.2
<i>Overtime hours</i>	3.2	3.2	3.2	3.2	3.2	3.2	3.3	2.7	3.0	3.0	3.0	3.0	3.1
Food and kindred products	39.7	39.8	39.8	39.9	40.0	39.8	40.0	39.6	39.8	39.8	39.8	39.6	39.7
Tobacco manufactures	38.0	37.1	37.5	38.1	37.2	36.9	38.0	37.6	38.9	37.6	38.5	37.6	38.0
Textile mill products	40.5	40.3	40.4	40.4	40.7	40.1	40.3	38.8	40.0	40.1	40.1	40.1	40.5
Apparel and other textile products	35.8	35.3	35.6	35.5	35.3	35.4	35.4	34.2	35.2	35.2	35.3	35.3	35.0
Paper and allied products	42.8	42.8	43.0	42.8	42.8	42.7	42.8	41.8	42.6	42.5	42.5	42.6	42.4
Printing and publishing	37.7	37.7	37.8	37.6	37.7	37.7	37.7	37.1	37.4	37.4	37.5	37.7	37.6
Chemicals and allied products	41.9	42.0	42.1	41.8	42.0	42.0	41.9	41.7	41.9	41.7	41.9	42.0	41.8
Petroleum and coal products	43.8	43.9	44.1	43.8	43.5	43.6	44.0	43.9	43.7	43.3	43.6	43.7	43.8
Rubber and misc. plastics products	41.2	41.1	41.1	41.2	41.4	41.2	41.3	39.7	40.9	40.7	40.6	40.1	40.1
Leather and leather products	37.2	37.0	36.9	36.7	36.8	36.4	36.3	35.6	36.1	36.4	36.6	36.4	37.0
TRANSPORTATION AND PUBLIC UTILITIES	39.7	40.0	39.9	40.0	40.0	40.0	40.0	39.2	39.8	39.8	39.7	39.8	39.9
WHOLESALE AND RETAIL TRADE	32.8	32.9	32.8	32.8	32.5	32.5	32.7	32.8	32.6	32.6	32.6	32.5	32.6
WHOLESALE TRADE	38.9	38.9	38.8	38.9	38.7	38.7	39.0	38.7	39.0	38.8	38.8	38.7	38.7
RETAIL TRADE	30.9	31.0	30.9	30.9	30.6	30.6	30.7	30.9	30.6	30.6	30.6	30.5	30.6
FINANCE, INSURANCE, AND REAL ESTATE	36.5	36.5	36.4	36.3	36.3	36.4	36.4	36.5	36.1	36.2	36.3	36.1	36.3
SERVICES	32.7	32.7	32.7	32.6	32.6	32.6	32.8	32.7	32.7	32.7	32.8	32.7	32.7

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

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

[1967=100]

Industry division and group	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
TOTAL PRIVATE	122.2	123.0	123.7	124.2	124.4	124.7	125.7	123.6	125.4	125.7	125.7	125.4	125.8
GOODS-PRODUCING	107.2	107.9	108.9	109.8	110.3	110.2	111.3	106.8	110.3	110.1	109.9	109.3	109.5
MINING	147.3	148.4	150.6	151.3	152.0	152.5	152.5	152.0	151.6	152.5	148.4	156.3	157.9
CONSTRUCTION	124.3	125.5	126.0	127.9	128.9	126.7	132.7	124.9	133.7	134.4	133.9	134.4	135.1
MANUFACTURING	102.8	103.4	104.4	105.1	105.6	105.8	106.0	102.0	104.7	104.3	104.4	103.3	103.3
DURABLE GOODS	105.6	106.8	107.9	108.8	109.2	109.9	110.1	105.0	108.3	107.9	107.9	106.8	106.8
Lumber and wood products	112.1	113.9	115.0	115.6	115.9	114.9	116.4	112.4	113.3	112.7	111.9	112.3	114.3
Furniture and fixtures	108.6	109.2	109.4	110.2	109.9	109.1	109.4	105.8	105.9	105.3	105.9	104.3	103.4
Stone, clay, and glass products	111.2	111.8	112.6	113.4	113.0	112.8	114.9	111.5	113.1	113.0	111.5	110.9	110.3
Primary metal industries	96.6	97.9	99.1	99.6	100.1	100.3	100.2	99.7	97.9	97.9	97.8	95.6	95.0
Fabricated metal products	104.6	105.1	106.5	107.8	107.6	108.7	108.6	102.7	106.6	107.1	106.7	104.9	105.2
Machinery, except electrical	111.4	112.4	113.5	115.3	115.8	117.4	117.5	113.0	117.4	117.6	118.0	116.2	117.5
Electric and electronic equipment	102.7	103.7	104.6	105.5	106.6	107.8	108.5	104.4	108.2	108.6	108.5	104.7	105.5
Transportation equipment	101.4	103.6	104.9	105.6	105.9	106.9	105.9	94.3	102.6	99.4	100.3	102.9	100.7
Instruments and related products	124.2	124.8	125.7	126.3	128.2	129.4	129.7	127.2	128.1	128.4	128.1	127.2	127.8
Miscellaneous manufacturing ind	100.9	101.8	102.1	101.8	102.3	101.7	101.7	97.5	98.7	100.3	100.7	100.6	100.3
NONDURABLE GOODS	98.6	98.5	99.5	99.8	100.3	99.8	100.1	97.8	99.5	99.1	99.1	98.1	98.0
Food and kindred products	94.5	95.2	96.4	97.7	98.1	97.0	98.1	96.8	97.0	96.8	95.9	94.6	95.3
Tobacco manufactures	73.4	71.7	72.4	73.6	71.8	70.0	73.4	73.9	76.5	72.6	73.0	64.7	66.7
Textile mill products	91.0	90.6	91.0	91.0	91.9	90.3	90.6	86.7	89.5	89.6	89.8	88.8	89.8
Apparel and other textile products	92.1	90.6	91.3	91.0	91.0	90.3	89.9	86.8	89.5	88.7	89.5	87.8	86.7
Paper and allied products	99.6	98.8	100.4	100.7	101.1	101.8	103.0	100.8	102.3	102.1	103.2	103.1	103.0
Printing and publishing	98.6	99.8	101.4	101.5	102.5	103.1	103.4	101.7	103.1	103.3	104.4	104.7	104.1
Chemicals and allied products	107.1	107.3	108.1	107.8	108.7	108.5	108.1	107.7	108.3	108.4	108.8	108.2	107.8
Petroleum and coal products	121.8	123.0	124.4	123.6	122.7	123.9	125.0	125.7	124.2	123.1	123.0	124.2	125.4
Rubber and misc. plastics products	147.2	147.6	149.9	152.0	153.5	154.0	154.4	148.4	153.4	150.4	150.5	145.0	143.3
Leather and leather products	71.3	70.2	69.4	68.4	67.9	66.6	66.1	63.9	65.4	66.0	61.3	64.4	65.8
SERVICE-PRODUCING	132.7	133.5	134.0	134.2	134.2	134.8	135.8	135.3	135.9	136.5	136.7	136.6	137.1
TRANSPORTATION AND PUBLIC UTILITIES	109.2	111.7	112.0	112.5	112.8	113.3	113.7	109.2	113.4	115.0	114.2	114.8	114.8
WHOLESALE AND RETAIL TRADE	128.2	129.0	129.2	129.5	129.0	129.3	130.2	130.6	130.2	130.0	129.9	129.5	130.0
WHOLESALE TRADE	129.1	129.4	129.6	130.5	130.5	130.8	132.3	131.3	132.8	132.8	132.7	132.4	132.7
RETAIL TRADE	128.0	128.8	129.0	129.0	128.5	128.7	129.3	130.3	129.1	128.9	128.9	128.4	129.0
FINANCE, INSURANCE, AND REAL ESTATE	141.3	141.8	142.6	142.7	143.3	144.1	144.6	145.5	144.5	145.7	146.5	146.5	147.3
SERVICES	147.2	147.3	148.3	148.4	148.6	149.5	151.1	151.0	151.7	152.6	153.5	153.5	154.3

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

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**ESTABLISHMENT DATA
SEASONALLY ADJUSTED**

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

Industry	1978				1979								
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug. ^P	Sept. ^P
Hourly Earnings Index ² (1967=100)													
TOTAL PRIVATE (In current dollars).....	216.5	218.1	219.2	220.9	222.6	224.0	225.2	226.8	227.5	229.0	230.9	232.2	233.7
MINING.....	246.7	248.9	249.9	250.9	252.1	253.7	256.1	264.1	262.7	264.9	266.9	265.4	265.6
CONSTRUCTION.....	210.0	210.5	211.6	213.0	213.8	216.7	216.5	218.1	220.4	220.4	222.1	222.9	223.8
MANUFACTURING.....	219.2	220.8	222.4	224.2	225.4	227.2	228.7	231.0	232.3	233.9	235.4	236.5	237.9
TRANSPORTATION AND PUBLIC UTILITIES.....	234.4	235.4	236.3	239.0	240.8	241.7	243.1	241.7	243.7	246.4	251.3	254.3	255.4
WHOLESALE AND RETAIL TRADE.....	210.1	211.7	213.0	214.7	217.7	218.1	219.4	220.9	221.0	222.6	223.8	225.3	226.5
FINANCE, INSURANCE, AND REAL ESTATE.....	198.2	199.6	200.7	202.1	202.4	204.2	204.8	207.5	207.0	208.0	210.8	211.5	214.1
SERVICES.....	215.2	217.2	217.7	219.3	220.8	222.2	223.3	225.0	224.3	225.7	227.0	228.2	230.7
TOTAL PRIVATE (In 1967 dollars) ³	108.9	108.7	108.6	108.7	108.5	107.8	107.3	106.9	106.1	105.7	105.6	105.1	-
Average hourly earnings													
TOTAL PRIVATE.....	\$5.78	\$5.84	\$5.87	\$5.92	\$5.96	\$6.00	\$6.04	\$6.04	\$6.09	\$6.13	\$6.18	\$6.22	\$6.25
MINING.....	7.89	7.98	8.06	8.08	8.18	8.23	8.28	8.56	8.43	8.49	8.49	8.57	8.52
CONSTRUCTION.....	8.77	8.78	8.85	8.88	8.94	9.06	9.03	9.11	9.20	9.19	9.27	9.32	9.36
MANUFACTURING.....	6.26	6.33	6.38	6.43	6.46	6.51	6.56	6.56	6.65	6.68	6.72	6.74	6.77
TRANSPORTATION AND PUBLIC UTILITIES.....	7.68	7.73	7.74	7.83	7.88	7.92	7.96	7.91	7.99	8.09	8.25	8.34	8.37
WHOLESALE AND RETAIL TRADE.....	4.75	4.79	4.81	4.85	4.92	4.93	4.96	4.99	5.00	5.03	5.07	5.09	5.11
FINANCE, INSURANCE, AND REAL ESTATE.....	4.98	5.03	5.06	5.09	5.09	5.14	5.16	5.22	5.21	5.23	5.30	5.32	5.39
SERVICES.....	5.05	5.09	5.11	5.14	5.18	5.22	5.24	5.27	5.26	5.31	5.35	5.39	5.43
Average weekly earnings													
TOTAL PRIVATE:													
Current dollars.....	206.92	209.07	210.15	211.94	213.37	214.20	216.84	213.21	217.41	218.23	220.01	221.43	222.50
1967 dollars ²	104.03	104.22	104.14	104.30	103.98	103.13	103.31	100.48	101.40	100.75	100.60	100.24	-
Real spendable earnings (married worker with 3 dependents, 1967 dollars) ³	92.07	92.09	91.95	91.97	92.46	91.66	91.68	89.35	89.96	89.34	89.12	88.73	-

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

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

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

⁴ See footnote 2, table C-5.

p = preliminary.

NOTE: See note to table C-10.

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

Industry division	Millions of hours (Annual rate) ²			Percent change		
	JULY 1979	AUGUST 1979p	SEPTEMBER 1979p	Sept. 1978 to Sept. 1979	July 1979 to Aug. 1979	Aug. 1979 to Sept. 1979
TOTAL.....	169,272	169,002	169,453	2.8	-0.2	0.3
PRIVATE SECTOR.....	138,224	138,121	138,709	3.2	-0.1	0.4
MINING.....	2,094	2,186	2,228	8.9	4.4	1.9
CONSTRUCTION.....	8,984	9,060	9,152	8.8	0.8	1.0
MANUFACTURING.....	43,698	43,206	43,309	1.0	-1.1	0.2
DURABLE GOODS.....	26,797	26,413	26,540	1.8	-1.4	0.5
NONDURABLE GOODS.....	16,901	16,793	16,770	-0.1	-0.6	-0.1
TRANSPORTATION AND PUBLIC UTILITIES.....	10,679	10,748	10,724	5.1	0.7	-0.2
WHOLESALE AND RETAIL TRADE.....	34,172	34,212	34,315	1.8	0.1	0.3
FINANCE, INSURANCE, AND REAL ESTATE.....	9,391	9,409	9,494	4.4	0.2	0.9
SERVICES.....	29,208	29,299	29,487	5.1	0.3	0.6
GOVERNMENT.....	31,047	30,880	30,744	1.0	-0.5	-0.4

¹ Data refer to hours of all employees—production workers, nonsupervisory workers and salaried workers—and are based largely on establishment data. See *BLS Handbook of Methods for Surveys and Studies*, BLS Bulletin 1010—Chapter 30, Productivity Measure: Private Economy and Major Sectors.

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

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, establishment data in this table may differ from data published earlier. See article in this issue for additional information.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

[1967 = 100]

Item	Annual average		Quarterly indexes										
			1976	1977				1978				1979	
	1977	1978	IV	I	II	III	IV	I	II	III	IV	I	II
PRIVATE BUSINESS SECTOR:													
Output per hour of all persons	118.8	120.1	117.2	118.5	118.0	119.7	119.3	119.1	119.8	120.6	120.8	120.0	119.3
Output	133.8	140.7	127.8	131.0	132.8	135.2	136.1	136.9	140.3	141.8	144.0	144.4	143.3
Hours	112.6	117.2	109.1	110.6	112.5	112.9	114.0	114.9	117.1	117.5	119.2	120.4	120.1
Compensation per hour	213.5	233.1	203.7	207.7	211.1	215.9	219.5	225.7	230.3	235.6	240.7	247.3	252.9
Real compensation per hour	117.6	119.3	117.2	117.2	116.8	118.0	118.4	119.5	119.0	119.2	119.1	119.3	118.1
Unit labor costs	179.7	194.2	173.8	175.2	178.9	180.3	183.9	189.5	192.2	195.3	199.2	206.1	212.9
Unit nonlabor payments	165.5	174.0	158.0	161.4	164.6	167.8	168.4	164.6	173.6	176.7	180.9	180.4	183.0
Implicit price deflator	174.8	187.2	168.3	170.5	173.9	176.0	178.6	180.9	185.8	188.9	192.9	197.2	202.0
NONFARM BUSINESS SECTOR:													
Output per hour of all persons	116.5	117.7	114.9	116.4	115.9	117.0	116.8	116.7	117.4	118.3	118.6	117.7	116.5
Output	134.3	141.5	128.3	131.7	133.4	135.6	136.4	137.3	141.1	142.7	145.0	145.5	144.1
Hours	115.3	120.2	111.6	113.2	115.1	115.9	116.8	117.6	120.2	120.6	122.2	123.5	123.7
Compensation per hour	209.8	229.3	199.9	204.1	207.5	211.8	215.8	222.2	226.5	231.5	236.7	242.8	247.4
Real compensation per hour	115.6	117.3	115.0	115.2	114.9	115.7	116.4	117.6	117.0	117.1	117.2	117.1	115.6
Unit labor costs	180.1	194.7	173.9	175.4	179.0	181.0	184.8	190.3	192.9	195.7	199.5	206.2	212.5
Unit nonlabor payments	163.8	169.6	157.0	159.1	163.2	167.0	165.8	160.9	168.9	172.7	175.7	173.9	176.9
Implicit price deflator	174.5	186.1	168.1	169.8	173.6	176.2	178.3	180.2	184.7	187.8	191.4	195.1	200.3
MANUFACTURING:													
Output per hour of all persons	127.5	128.9	124.6	125.4	127.4	128.7	128.3	126.4	128.0	130.1	130.8	130.1	130.9
Output	128.2	134.5	121.2	124.2	128.1	129.9	130.8	130.1	133.4	135.9	138.5	140.1	139.7
Hours	100.6	104.4	97.2	99.0	100.5	100.9	101.9	102.9	104.2	104.4	105.9	107.7	106.7
Compensation per hour	212.4	231.1	201.4	206.4	210.9	214.6	218.4	224.4	228.1	233.1	238.4	244.3	250.2
Real compensation per hour	117.0	118.3	115.9	116.5	116.2	117.3	117.8	118.8	117.8	117.9	118.0	117.8	116.8
Unit labor costs	166.6	179.4	161.6	164.6	164.7	166.7	170.2	177.5	178.1	179.1	182.2	187.9	191.1
DURABLE GOODS													
Output per hour of all persons	121.5	122.1	119.4	119.5	121.7	122.6	122.2	119.6	121.8	123.4	123.7	122.8	123.7
Output	122.5	129.6	115.4	117.8	122.2	124.4	125.5	124.4	128.3	131.3	134.5	136.2	135.4
Hours	100.8	106.1	96.6	98.6	100.4	101.5	102.7	104.0	105.4	106.4	108.7	110.9	109.4
Compensation per hour	214.4	232.5	202.7	208.2	211.8	216.5	220.4	225.9	229.5	234.3	239.7	245.8	251.5
Real compensation per hour	118.1	119.0	116.6	117.5	117.2	118.3	118.9	119.6	118.6	118.5	118.6	118.5	117.5
Unit labor costs	176.4	190.4	169.7	174.3	174.0	176.6	180.4	188.8	188.5	189.9	193.7	200.2	203.3
NONDURABLE GOODS													
Output per hour of all persons	137.2	139.9	133.1	135.1	136.6	138.7	138.3	137.6	138.3	141.3	142.5	142.2	143.0
Output	137.6	142.3	130.6	134.6	137.6	138.8	139.3	139.3	141.6	143.2	145.1	146.3	146.7
Hours	100.3	101.7	98.1	99.6	100.7	100.1	100.7	101.2	102.4	101.4	101.8	102.9	102.6
Compensation per hour	208.9	227.6	199.7	203.6	206.6	210.9	214.5	221.2	224.8	229.9	234.2	239.8	246.0
Real compensation per hour	115.1	116.5	114.9	114.9	114.4	115.3	115.7	117.1	116.2	116.3	115.9	115.6	114.9
Unit labor costs	152.3	162.7	150.0	150.7	151.2	152.1	155.1	160.7	162.6	162.7	164.3	168.7	172.1
NONFINANCIAL CORPORATIONS:													
Output per all-employee hour	117.1	119.1	115.6	116.8	116.6	117.8	117.3	117.6	118.9	119.6	120.1	119.6	118.6
Output	141.2	150.0	134.8	138.4	140.4	142.7	143.4	144.7	149.7	151.4	154.2	155.1	153.9
Hours	120.6	126.0	116.6	118.5	120.4	121.0	122.3	123.1	125.9	126.6	128.3	129.7	129.8
Compensation per hour	208.1	227.0	198.2	202.5	205.9	210.2	213.9	220.3	224.4	229.1	234.0	240.4	245.0
Real compensation per hour	114.7	116.2	114.1	114.3	114.0	114.9	115.4	116.6	115.9	115.9	115.8	115.9	114.4
Total unit costs	181.8	193.3	176.3	177.7	180.5	182.4	186.3	190.8	191.6	194.0	196.8	202.3	208.2
Unit labor costs	177.7	190.6	171.5	173.4	176.6	178.4	182.3	187.3	188.7	191.5	194.8	201.0	206.5
Unit nonlabor costs	194.3	201.8	191.3	191.0	192.4	194.8	198.7	201.5	200.8	201.6	203.1	206.5	213.4
Unit profits	122.7	127.2	107.0	114.1	123.3	130.9	122.2	107.1	129.2	132.7	138.7	130.3	128.1
Implicit price deflator	173.0	183.5	166.0	168.3	172.0	174.7	176.8	178.3	182.3	184.9	188.2	191.6	196.3

p=preliminary.
r=revised.

**PRODUCTIVITY
SEASONALLY ADJUSTED**

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

Item	Quarterly percent change						Annual percent change					
	IV 1977 to I 1978	I 1978 to II 1978	II 1978 to III 1978	III 1978 to IV 1978	IV 1978 to I 1979	I 1979 to II 1979	I 1977 to I 1978	II 1977 to II 1978	III 1977 to III 1978	IV 1977 to IV 1978	I 1978 to I 1979	II 1978 to II 1979
	PRIVATE BUSINESS SECTOR:											
Output per hour of all persons	-0.8	2.5	2.6	0.8	-2.8	-2.4	0.5	1.6	0.7	1.3	0.7	-0.5
Output	2.4	10.5	4.2	6.4	1.2	-3.1	4.4	5.7	4.8	5.8	5.5	2.1
Hours	3.2	7.9	1.5	5.6	4.1	-0.7	3.9	4.1	4.1	4.5	4.8	2.6
Compensation per hour	11.8	8.4	9.4	9.0	11.4	9.3	8.7	9.1	9.1	9.7	9.6	9.8
Real compensation per hour	3.7	-1.6	0.5	-0.1	0.4	-3.8	2.0	1.9	1.0	0.6	-0.2	-0.8
Unit labor costs	12.7	5.8	6.6	8.2	14.6	12.0	8.1	7.5	8.4	8.3	8.8	10.3
Unit nonlabor payments	-8.8	23.8	7.4	9.7	-1.1	5.9	2.0	5.5	5.3	7.4	9.6	5.4
Implicit price deflator	5.3	11.2	6.9	8.7	9.3	10.0	6.1	6.8	7.4	8.0	9.0	8.7
NONFARM BUSINESS SECTOR:												
Output per hour of all persons	-0.2	2.4	2.9	1.3	-3.0	-4.3	0.3	1.3	1.1	1.6	0.9	-0.8
Output	2.7	11.5	4.5	6.8	1.2	-3.8	4.2	5.7	5.2	6.3	5.9	2.1
Hours	2.9	8.9	1.6	5.4	4.3	0.5	3.9	4.4	4.1	4.7	5.0	2.9
Compensation per hour	12.3	8.0	9.1	9.4	10.7	7.8	8.9	9.2	9.3	9.7	9.3	9.2
Real compensation per hour	4.1	-1.9	0.3	0.2	-0.3	-5.1	2.1	1.9	1.2	0.6	-0.5	-1.3
Unit labor costs	12.5	5.5	6.0	8.0	14.1	12.7	8.5	7.8	8.1	8.0	8.3	10.1
Unit nonlabor payments	11.4	21.4	9.3	7.2	-4.1	7.1	1.1	3.5	3.4	6.0	8.1	4.8
Implicit price deflator	4.4	10.2	7.0	7.8	8.1	11.0	6.1	6.4	6.6	7.3	8.3	8.5
MANUFACTURING:												
Output per hour of all persons	-5.7	5.1	6.8	2.0	-2.3	2.8	0.8	0.5	1.1	1.9	2.9	2.3
Output	-2.2	10.6	7.6	8.1	4.6	-1.1	4.7	4.1	4.6	5.9	7.7	4.7
Hours	3.8	5.2	0.8	5.9	7.0	-3.8	3.9	3.6	3.5	3.9	4.7	2.4
Compensation per hour	11.5	6.7	9.2	9.3	10.4	9.9	8.7	8.7	8.6	9.1	8.9	9.7
Real compensation per hour	3.4	-3.2	0.3	0.1	-0.5	-3.3	2.0	1.4	0.6	0.1	-0.8	-0.9
Unit labor costs	18.3	1.4	2.2	7.1	13.0	6.9	7.9	8.1	7.4	7.1	5.9	7.3
DURABLE GOODS												
Output per hour of all persons	-8.1	7.3	5.3	-1.3	-3.1	3.1	0.1	0.0	0.6	1.3	2.6	1.6
Output	-3.6	13.3	9.6	10.0	5.3	-2.4	5.6	5.0	5.6	7.1	9.5	5.5
Hours	5.0	5.5	4.0	8.6	8.6	-5.3	5.5	5.0	4.9	5.8	6.7	3.8
Compensation per hour	10.4	6.5	8.6	9.7	10.4	9.7	8.5	8.3	8.2	8.8	8.8	9.6
Real compensation per hour	2.4	-3.3	-0.2	0.4	-0.5	-3.4	1.8	1.1	0.1	-0.2	-0.9	-0.9
Unit labor costs	20.2	-0.8	3.1	8.3	13.9	6.5	8.4	8.3	7.5	7.4	6.0	7.9
NONDURABLE GOODS												
Output per hour of all persons	-2.1	2.0	9.1	3.4	-1.0	2.2	1.8	1.2	1.9	3.0	3.3	3.4
Output	-0.1	6.8	4.8	5.3	3.4	0.9	3.4	2.9	3.2	4.1	5.1	3.6
Hours	2.0	4.6	-4.0	1.8	4.5	-1.3	1.6	1.7	1.3	1.1	1.7	0.2
Compensation per hour	13.0	6.8	9.3	7.8	9.9	10.8	8.6	8.8	9.0	9.2	8.4	9.4
Real compensation per hour	4.8	-3.0	0.4	-1.3	-1.0	-2.5	1.9	1.6	0.9	0.2	-1.2	-1.1
Unit labor costs	15.4	4.7	0.1	4.2	11.0	8.3	6.7	7.5	7.0	6.0	4.9	5.8
NONFINANCIAL CORPORATIONS:												
Output per all-employee hour	0.9	4.6	2.3	1.8	-1.8	-3.3	0.7	2.0	1.5	2.4	1.7	-0.3
Output	3.6	14.5	4.6	7.6	2.5	-3.0	4.6	6.7	6.1	7.5	7.2	2.8
Hours	2.7	9.5	2.2	5.6	4.4	0.3	3.9	4.6	4.6	5.0	5.4	3.1
Compensation per hour	12.4	7.7	8.7	8.8	11.3	7.9	8.8	9.0	9.0	9.4	9.1	9.2
Real compensation per hour	4.3	-2.3	-0.1	-0.3	0.3	-5.0	2.0	1.7	0.9	0.4	-0.6	-1.3
Total unit costs	9.9	1.8	5.1	5.9	11.7	12.2	7.3	6.2	6.4	5.6	6.1	8.7
Unit labor costs	11.4	2.9	6.2	6.9	13.4	11.6	8.0	6.8	7.4	6.8	7.3	9.5
Unit nonlabor costs	5.6	-1.3	1.7	2.9	6.8	14.0	5.5	4.3	3.5	2.2	2.5	6.3
Unit profits	-40.8	111.3	11.4	19.5	-22.1	-6.8	-6.1	4.7	1.4	13.6	21.7	-0.9
Implicit price deflator	3.6	9.3	5.7	7.3	7.6	10.1	6.0	6.0	5.8	6.4	7.5	7.7

p=preliminary.
r=revised.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
ALABAMA	\$224.41	\$240.98	\$247.99	41.1	40.5	41.4	\$5.46	\$5.95	\$5.99
Birmingham	260.80	295.20	298.75	41.2	41.0	41.9	6.33	7.20	7.13
Mobile	271.10	301.08	301.68	41.2	41.3	41.9	6.58	7.29	7.20
ALASKA	386.69	362.44	(*)	46.2	41.0	(*)	8.37	8.84	(*)
ARIZONA	247.46	271.73	276.08	40.7	40.8	40.9	6.08	6.66	6.75
Phoenix	249.08	267.85	271.89	40.9	40.4	40.4	6.09	6.63	6.73
Tucson	232.46	251.08	256.86	39.4	38.1	38.8	5.90	6.59	6.62
ARKANSAS	189.37	206.44	207.76	39.7	39.7	39.8	4.77	5.20	5.22
Fayetteville-Springdale	165.46	188.50	183.22	38.3	40.8	38.9	4.32	4.62	4.71
Fort Smith	196.00	212.22	214.49	39.2	39.3	39.5	5.00	5.40	5.43
Little Rock-North Little Rock	211.75	229.70	233.63	38.5	39.4	39.8	5.50	5.83	5.87
Pine Bluff	257.23	277.89	290.02	42.8	41.6	42.4	6.01	6.68	6.84
CALIFORNIA	259.05	282.58	285.51	40.1	39.8	40.1	6.46	7.10	7.12
Anaheim-Santa Ana-Garden Grove	243.58	252.45	258.55	40.8	39.2	39.9	5.97	6.44	6.48
Bakersfield	270.18	308.66	306.03	39.5	40.4	39.9	6.84	7.64	7.67
Fresno	236.22	235.21	261.14	39.7	37.1	40.3	5.95	6.34	6.48
Los Angeles-Long Beach	238.00	265.86	267.47	40.0	40.1	40.1	5.95	6.63	6.67
Modesto	262.51	275.41	268.35	40.2	39.4	38.5	6.53	6.99	6.97
Oxnard-Simi Valley-Ventura	223.20	246.72	252.41	40.0	39.1	39.5	5.58	6.31	6.39
Riverside-San Bernardino-Ontario	272.70	294.44	293.38	40.4	40.5	40.3	6.75	7.27	7.28
Sacramento	281.30	296.06	309.87	39.9	38.4	40.4	7.05	7.71	7.67
Salinas-Seaside-Monterey	258.86	268.60	262.13	39.4	39.5	37.5	6.57	6.80	6.99
San Diego	245.63	254.18	258.14	39.3	37.6	38.3	6.25	6.76	6.74
San Francisco-Oakland	312.00	336.48	339.15	40.0	39.4	39.9	7.80	8.54	8.50
San Jose	281.93	297.34	302.84	41.4	40.4	41.2	6.81	7.36	7.35
Santa Barbara-Santa Maria-Lompoc	228.73	243.84	239.94	38.9	38.1	37.2	5.88	6.40	6.45
Santa Rosa	229.48	253.65	256.97	36.6	38.2	38.7	6.27	6.64	6.64
Stockton	287.34	291.43	306.82	40.7	38.6	40.8	7.06	7.55	7.52
Vallejo-Fairfield-Napa	277.80	301.39	310.95	39.8	39.5	40.7	6.98	7.63	7.64
COLORADO	243.75	264.71	267.30	39.0	39.1	39.6	6.25	6.77	6.75
Denver-Boulder	242.11	264.23	267.34	38.8	38.8	39.2	6.24	6.81	6.82
CONNECTICUT	247.70	266.66	264.96	41.7	41.6	41.4	5.94	6.41	6.40
Bridgeport	263.26	287.31	281.35	43.3	43.4	42.5	6.08	6.62	6.62
Hartford	268.39	297.08	290.50	42.2	42.5	41.5	6.36	6.99	7.00
New Britain	259.86	277.72	278.99	42.6	42.4	42.4	6.10	6.55	6.58
New Haven-West Haven	254.79	271.17	270.85	41.7	41.4	41.1	6.11	6.55	6.59
Stamford	253.76	281.43	272.43	41.6	43.7	42.7	6.10	6.44	6.38
Waterbury	219.76	235.41	237.38	42.1	41.3	41.5	5.22	5.70	5.72
DELAWARE	267.30	278.78	278.25	41.7	39.6	38.7	6.41	7.04	7.19
Wilmington	303.28	317.21	317.30	40.6	39.8	38.0	7.47	7.97	8.35
DISTRICT OF COLUMBIA:									
Washington SMSA	264.21	290.60	287.04	39.2	40.3	39.0	6.74	7.20	7.36
FLORIDA	206.64	216.00	218.69	41.0	40.0	40.2	5.04	5.40	5.44
Fort Lauderdale-Hollywood	192.88	204.29	208.35	40.1	39.9	40.3	4.81	5.12	5.17
Jacksonville	250.98	254.16	260.89	41.9	40.6	40.7	5.99	6.26	6.41
Miami	175.08	187.11	195.53	39.7	38.9	39.5	4.41	4.81	4.95
Orlando	222.07	231.80	231.16	41.2	41.1	41.5	5.39	5.64	5.57
Pensacola	263.93	301.15	303.25	42.5	43.9	44.4	6.21	6.86	6.83
Tampa-St. Petersburg	213.42	229.96	234.36	41.2	40.7	40.9	5.18	5.65	5.73
West Palm Beach-Boca Raton	237.73	230.84	239.02	42.3	36.7	38.0	5.62	6.29	6.29
GEORGIA	195.05	212.50	214.08	40.3	40.4	40.7	4.84	5.26	5.26
Atlanta	214.40	253.78	242.40	38.7	40.8	40.0	5.54	6.22	6.06
Savannah	273.49	309.40	305.20	42.8	44.2	43.6	6.39	7.00	7.00
HAWAII	217.32	229.80	238.37	38.6	38.3	39.4	5.63	6.00	6.05
Honolulu	207.18	221.56	228.90	37.6	37.3	38.6	5.51	5.94	5.93
IDAHO	273.32	278.51	(*)	39.9	38.1	(*)	6.85	7.31	(*)
Boise City	230.89	(*)	(*)	37.3	(*)	(*)	6.19	(*)	(*)

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
ILLINOIS	\$271.18	\$298.12	\$301.87	39.9	40.5	40.9	\$6.80	\$7.36	\$7.39
Bloomington—Normal	248.97	264.33	274.51	41.0	40.6	41.3	6.07	6.52	6.64
Champaign—Urbana—Rantoul	250.20	258.52	262.30	38.5	38.5	38.7	6.51	6.72	6.78
Chicago SMSA	267.48	282.39	285.16	40.6	40.1	40.3	6.59	7.04	7.08
Deavenport—Rock Island—Moline	276.51	340.25	346.72	38.6	39.1	39.4	7.17	8.71	8.81
Decatur	299.82	331.07	343.01	41.1	40.8	42.0	7.30	8.12	8.16
Peoria	329.86	341.90	363.05	39.4	37.9	39.5	8.38	9.03	9.19
Rockford	279.17	289.26	301.47	41.8	40.6	41.7	6.67	7.13	7.23
Springfield	309.36	325.13	318.73	41.8	42.3	41.8	7.39	7.69	7.63
INDIANA	297.05	319.52	317.14	41.2	40.6	40.4	7.21	7.87	7.85
Gary—Hammond—East Chicago	402.17	435.35	(*)	42.2	41.7	(*)	9.53	10.44	(*)
Indianapolis	297.49	314.52	(*)	41.9	40.9	(*)	7.10	7.69	(*)
IOWA	273.34	321.47	300.31	39.5	40.9	38.9	6.92	7.86	7.72
Cedar Rapids	295.37	316.71	319.55	39.7	40.5	40.5	7.44	7.82	7.89
Des Moines	282.21	315.54	320.00	38.5	39.1	40.0	7.33	8.07	8.00
Dubuque	341.07	434.78	315.46	40.7	46.5	37.2	8.38	9.35	8.48
Sioux City	244.20	291.10	292.11	38.7	41.0	41.2	6.31	7.10	7.09
Waterloo—Cedar Falls	396.26	453.55	456.46	45.6	47.0	47.4	8.69	9.65	9.63
KANSAS	(*)	269.94	272.69	(*)	40.9	40.7	(*)	6.60	6.70
Topeka	(*)	275.25	276.29	(*)	40.3	40.1	(*)	6.83	6.89
Wichita	(*)	295.96	291.17	(*)	42.1	41.3	(*)	7.03	7.05
KENTUCKY	245.39	263.64	264.91	39.2	39.0	38.9	6.26	6.76	6.81
Louisville	283.91	305.96	306.06	40.5	40.1	39.8	7.01	7.63	7.69
LOUISIANA	268.27	282.40	298.45	41.4	40.0	41.8	6.48	7.06	7.14
Baton Rouge	334.54	379.28	357.06	42.4	43.1	40.3	7.89	8.80	8.86
New Orleans	253.99	257.56	283.15	39.5	37.6	40.8	6.43	6.85	6.94
Shreveport	244.96	257.20	268.30	41.1	40.0	40.9	5.96	6.43	6.56
MAINE	197.88	219.89	218.80	40.8	40.2	40.0	4.85	5.47	5.47
Lewiston—Auburn	162.47	177.93	178.69	38.5	38.1	38.1	4.22	4.67	4.69
Portland	197.90	204.09	206.90	39.9	38.8	38.6	4.96	5.26	5.36
MARYLAND	261.14	284.00	284.49	40.3	40.0	39.9	6.48	7.10	7.13
Baltimore	280.57	300.51	303.06	40.9	40.5	40.3	6.86	7.42	7.52
MASSACHUSETTS	222.15	238.60	(*)	40.1	40.1	(*)	5.54	5.95	(*)
Boston	242.59	270.60	(*)	39.9	41.0	(*)	6.08	6.60	(*)
Brockton	177.17	181.05	(*)	38.6	37.1	(*)	4.59	4.88	(*)
Fall River	156.60	189.50	(*)	36.0	37.9	(*)	4.35	5.00	(*)
Lawrence—Haverhill	218.99	232.66	(*)	39.6	39.5	(*)	5.53	5.89	(*)
Lowell	193.00	199.26	(*)	38.6	36.9	(*)	5.00	5.40	(*)
New Bedford	189.70	197.10	(*)	38.4	37.4	(*)	4.94	5.27	(*)
Springfield—Chicopee—Holyoke	226.19	238.98	(*)	41.2	40.3	(*)	5.49	5.93	(*)
Worcester	230.85	241.80	(*)	40.5	39.0	(*)	5.70	6.20	(*)
MICHIGAN	(*)	361.15	349.47	(*)	41.1	40.5	(*)	8.79	8.63
Ann Arbor	(*)	383.17	377.05	(*)	42.0	41.7	(*)	9.12	9.04
Battle Creek	(*)	362.95	368.11	(*)	41.4	41.3	(*)	8.77	8.91
Bay City	(*)	313.31	310.99	(*)	41.1	41.3	(*)	7.62	7.53
Detroit	(*)	390.64	384.54	(*)	41.5	41.3	(*)	9.41	9.31
Flint	(*)	408.79	375.79	(*)	41.7	39.1	(*)	9.80	9.61
Grand Rapids	(*)	290.32	288.07	(*)	40.0	39.8	(*)	7.26	7.24
Jackson	(*)	308.50	329.04	(*)	40.3	42.6	(*)	7.66	7.72
Kalamazoo—Portage	(*)	329.46	319.78	(*)	40.4	39.7	(*)	8.16	8.06
Lansing—East Lansing	(*)	388.63	347.78	(*)	42.1	39.2	(*)	9.23	8.87
Muskegon—Norton Shores—Muskegon Heights	(*)	315.77	319.51	(*)	40.4	41.2	(*)	7.82	7.76
Saginaw	(*)	397.20	368.76	(*)	40.3	38.8	(*)	9.86	9.50
MINNESOTA	259.20	273.44	275.12	40.5	39.4	39.7	6.40	6.94	6.93
Duluth—Superior	234.69	259.96	261.69	38.6	38.8	39.0	6.08	6.70	6.71
Minneapolis—St. Paul	279.48	290.66	295.94	40.8	39.6	40.1	6.85	7.34	7.38
MISSISSIPPI	184.63	192.76	198.80	40.4	39.1	40.0	4.57	4.93	4.97
Jackson	204.85	224.68	216.12	41.3	41.0	40.7	4.96	5.48	5.31

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
ILLINOIS	\$271.18	\$298.12	\$301.87	39.9	40.5	40.9	\$6.80	\$7.36	\$7.39
Bloomington—Normal	248.97	264.33	274.51	41.0	40.6	41.3	6.07	6.52	6.64
Champaign—Urbana—Rantoul	250.20	258.52	262.30	38.5	38.5	38.7	6.51	6.72	6.78
Chicago SMSA	267.48	282.39	285.16	40.6	40.1	40.3	6.59	7.04	7.08
Deavenport—Rock Island—Moline	276.51	340.25	346.72	38.6	39.1	39.4	7.17	8.71	8.81
Decatur	299.82	331.07	343.01	41.1	40.8	42.0	7.30	8.12	8.16
Peoria	329.86	341.90	363.05	39.4	37.9	39.5	8.38	9.03	9.19
Rockford	279.17	289.26	301.47	41.8	40.6	41.7	6.67	7.13	7.23
Springfield	309.36	325.13	318.73	41.8	42.3	41.8	7.39	7.69	7.63
INDIANA	297.05	319.52	317.14	41.2	40.6	40.4	7.21	7.87	7.85
Gary—Hammond—East Chicago	402.17	435.35	(*)	42.2	41.7	(*)	9.53	10.44	(*)
Indianapolis	297.49	314.52	(*)	41.9	40.9	(*)	7.10	7.69	(*)
IOWA	273.34	321.47	300.31	39.5	40.9	38.9	6.92	7.86	7.72
Cedar Rapids	295.37	316.71	319.55	39.7	40.5	40.5	7.44	7.82	7.89
Des Moines	282.21	315.54	320.00	38.5	39.1	40.0	7.33	8.07	8.00
Dubuque	341.07	434.78	315.46	40.7	46.5	37.2	8.38	9.35	8.48
Sioux City	244.20	291.10	292.11	38.7	41.0	41.2	6.31	7.10	7.09
Waterloo—Cedar Falls	396.26	453.55	456.46	45.6	47.0	47.4	8.69	9.65	9.63
KANSAS	(*)	269.94	272.69	(*)	40.9	40.7	(*)	6.60	6.70
Topeka	(*)	275.25	276.29	(*)	40.3	40.1	(*)	6.83	6.89
Wichita	(*)	295.96	291.17	(*)	42.1	41.3	(*)	7.03	7.05
KENTUCKY	245.39	263.64	264.91	39.2	39.0	38.9	6.26	6.76	6.81
Louisville	283.91	305.96	306.06	40.5	40.1	39.8	7.01	7.63	7.69
LOUISIANA	268.27	282.40	298.45	41.4	40.0	41.8	6.48	7.06	7.14
Baton Rouge	334.54	379.28	357.06	42.4	43.1	40.3	7.89	8.80	8.86
New Orleans	253.99	257.56	283.15	39.5	37.6	40.8	6.43	6.85	6.94
Shreveport	244.96	257.20	268.30	41.1	40.0	40.9	5.96	6.43	6.56
MAINE	197.88	219.89	218.80	40.8	40.2	40.0	4.85	5.47	5.47
Lewiston—Auburn	162.47	177.93	178.69	38.5	38.1	38.1	4.22	4.67	4.69
Portland	197.90	204.09	206.90	39.9	38.8	38.6	4.96	5.26	5.36
MARYLAND	261.14	284.00	284.49	40.3	40.0	39.9	6.48	7.10	7.13
Baltimore	280.57	300.51	303.06	40.9	40.5	40.3	6.86	7.42	7.52
MASSACHUSETTS	222.15	238.60	(*)	40.1	40.1	(*)	5.54	5.95	(*)
Boston	242.59	270.60	(*)	39.9	41.0	(*)	6.08	6.60	(*)
Brockton	177.17	181.05	(*)	38.6	37.1	(*)	4.59	4.88	(*)
Fall River	156.60	189.50	(*)	36.0	37.9	(*)	4.35	5.00	(*)
Lawrence—Haverhill	218.99	232.66	(*)	39.6	39.5	(*)	5.53	5.89	(*)
Lowell	193.00	199.26	(*)	38.6	36.9	(*)	5.00	5.40	(*)
New Bedford	189.70	197.10	(*)	38.4	37.4	(*)	4.94	5.27	(*)
Springfield—Chicopee—Holyoke	226.19	238.98	(*)	41.2	40.3	(*)	5.49	5.93	(*)
Worcester	230.85	241.80	(*)	40.5	39.0	(*)	5.70	6.20	(*)
MICHIGAN	(*)	361.15	349.47	(*)	41.1	40.5	(*)	8.79	8.63
Ann Arbor	(*)	383.17	377.05	(*)	42.0	41.7	(*)	9.12	9.04
Battle Creek	(*)	362.95	368.11	(*)	41.4	41.3	(*)	8.77	8.91
Bay City	(*)	313.31	310.99	(*)	41.1	41.3	(*)	7.62	7.53
Detroit	(*)	390.64	384.54	(*)	41.5	41.3	(*)	9.41	9.31
Flint	(*)	408.79	375.79	(*)	41.7	39.1	(*)	9.80	9.61
Grand Rapids	(*)	290.32	288.07	(*)	40.0	39.8	(*)	7.26	7.24
Jackson	(*)	308.50	329.04	(*)	40.3	42.6	(*)	7.66	7.72
Kalamazoo—Portage	(*)	329.46	319.78	(*)	40.4	39.7	(*)	8.16	8.06
Lansing—East Lansing	(*)	388.63	347.78	(*)	42.1	39.2	(*)	9.23	8.87
Muskegon—Norton Shores—Muskegon Heights	(*)	315.77	319.51	(*)	40.4	41.2	(*)	7.82	7.76
Saginaw	(*)	397.20	368.76	(*)	40.3	38.8	(*)	9.86	9.50
MINNESOTA	259.20	273.44	275.12	40.5	39.4	39.7	6.40	6.94	6.93
Duluth—Superior	234.69	259.96	261.69	38.6	38.8	39.0	6.08	6.70	6.71
Minneapolis—St. Paul	279.48	290.66	295.94	40.8	39.6	40.1	6.85	7.34	7.38
MISSISSIPPI	184.63	192.76	198.80	40.4	39.1	40.0	4.57	4.93	4.97
Jackson	204.85	224.68	216.12	41.3	41.0	40.7	4.96	5.48	5.31

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
	MISSOURI	\$235.07	\$260.35	\$263.25	38.6	38.8	39.0	\$6.09	\$6.71	$6.75
Kansas City	274.72	299.65	304.84	40.4	39.9	39.9	6.80	7.51	7.64
St. Joseph	225.15	250.58	252.80	39.5	39.4	40.0	5.70	6.36	6.32
St. Louis	283.91	294.47	296.74	40.1	38.9	39.2	7.08	7.57	7.57
Springfield	222.96	240.98	241.59	40.1	39.7	39.8	5.56	6.07	6.07
MONTANA	338.35	361.65	353.56	42.4	42.9	42.7	7.98	8.43	8.28
NEBRASKA	239.37	268.27	274.73	41.2	41.4	41.5	5.81	6.48	6.62
Lincoln	237.55	255.81	259.25	38.5	38.7	39.4	6.17	6.61	6.58
Omaha	259.43	283.72	288.56	40.6	41.0	40.7	6.39	6.92	7.09
NEVADA	250.88	257.94	281.50	37.5	38.1	40.1	6.69	6.77	7.02
Las Vegas	328.02	312.12	(*)	40.1	36.0	(*)	8.18	8.67	(*)
NEW HAMPSHIRE	199.39	215.17	218.43	40.2	39.7	40.3	4.96	5.42	5.42
Manchester	175.89	189.36	194.50	39.0	38.1	38.9	4.51	4.97	5.00
Nashua	221.66	238.55	239.54	41.2	41.2	41.3	5.38	5.79	5.80
NEW JERSEY	255.85	274.23	273.98	41.4	41.3	41.2	6.18	6.64	6.64
Atlantic City	172.59	198.51	203.84	38.1	39.0	39.2	4.53	5.09	5.20
Camden ²	247.23	269.43	267.96	40.2	40.7	40.6	6.15	6.62	6.60
Hackensack ³	246.96	258.49	260.15	43.1	42.1	42.3	5.73	6.14	6.15
Jersey City ³	246.80	265.98	266.26	40.0	40.3	40.9	6.17	6.60	6.51
New Brunswick—Perth Amboy—Sayreville ³	274.80	299.06	296.00	41.2	40.8	40.0	6.67	7.33	7.40
Newark ³	258.49	278.70	281.05	42.1	42.1	42.2	6.14	6.62	6.66
Paterson—Clifton—Passaic ³	241.16	253.89	259.72	40.6	40.3	40.9	5.94	6.30	6.35
Trenton	267.08	283.56	282.98	40.9	40.8	40.6	6.53	6.95	6.97
NEW MEXICO	184.32	214.11	215.60	38.4	39.0	39.2	4.80	5.49	5.50
Albuquerque	170.50	214.01	211.46	38.4	38.7	38.8	4.44	5.53	5.45
NEW YORK	237.98	257.94	258.33	39.4	39.2	39.5	6.04	6.58	6.54
Albany—Schenectady—Troy	265.60	278.59	282.20	40.0	40.2	40.2	6.64	6.93	7.02
Binghamton	217.31	239.72	242.90	39.8	40.7	41.1	5.46	5.89	5.91
Buffalo	323.59	341.88	342.66	41.7	40.7	40.6	7.76	8.40	8.44
Elmira	243.01	264.96	260.34	40.3	40.7	40.3	6.03	6.51	6.46
Monroe County ⁴	304.47	333.32	334.54	41.2	41.1	41.2	7.39	8.11	8.12
Nassau—Suffolk ⁵	223.83	240.30	244.55	39.2	39.2	39.7	5.71	6.13	6.16
New York—Northeastern New Jersey	227.34	245.63	(*)	39.4	39.3	(*)	5.77	6.25	(*)
New York and Nassau—Suffolk ³	205.13	224.69	225.34	37.5	37.7	38.0	5.47	5.96	5.93
New York SMSA ⁵	200.88	220.82	220.71	37.2	37.3	37.6	5.40	5.92	5.87
New York City ⁶	197.25	215.65	216.50	36.8	36.8	37.2	5.36	5.86	5.82
Poughkeepsie	258.23	269.01	270.94	43.4	42.7	42.6	5.95	6.30	6.36
Rochester	286.59	314.61	314.77	41.0	40.7	41.2	6.99	7.73	7.64
Rockland County ⁶	244.76	248.35	250.85	42.2	39.8	40.2	5.80	6.24	6.24
Syracuse	274.03	284.72	288.97	41.9	40.5	41.4	6.54	7.03	6.98
Utica—Rome	230.68	244.51	247.95	40.4	39.5	39.8	5.71	6.19	6.23
Westchester County ⁶	230.29	262.03	252.13	39.5	41.2	40.6	5.83	6.36	6.21
NORTH CAROLINA	180.29	192.76	193.45	39.8	39.5	39.4	4.53	4.88	4.91
Asheville	176.67	193.19	191.92	39.7	40.5	39.9	4.45	4.77	4.81
Charlotte—Gastonia	185.19	196.26	198.99	40.7	40.3	40.2	4.55	4.87	4.95
Greensboro—Winston-Salem—High Point	196.31	209.08	211.18	39.9	39.3	39.4	4.92	5.32	5.36
Raleigh—Durham	201.50	220.40	226.33	39.9	40.0	40.2	5.05	5.51	5.63
NORTH DAKOTA	232.88	230.83	241.80	41.0	38.6	40.1	5.68	5.98	6.03
Fargo— Moorhead	249.89	257.63	264.67	40.5	38.8	39.8	6.17	6.64	6.65
OHIO	305.87	324.66	318.24	41.9	41.2	40.8	7.30	7.88	7.80
Akron	304.68	310.54	313.59	42.2	40.7	41.1	7.22	7.63	7.63
Canton	310.34	337.77	328.04	40.2	41.7	40.7	7.72	8.10	8.06
Cincinnati	287.28	304.20	302.63	42.0	41.5	41.4	6.84	7.33	7.31
Cleveland	314.71	337.60	327.47	42.3	42.2	41.4	7.44	8.00	7.91
Columbus	268.21	278.87	282.40	40.7	39.5	40.0	6.59	7.06	7.06
Dayton	310.06	334.51	323.75	42.3	41.4	41.4	7.33	8.08	7.82
Toledo	317.52	325.61	328.05	42.0	40.1	40.4	7.56	8.12	8.12
Youngstown—Warren	358.94	386.87	374.00	41.4	41.2	40.0	8.67	9.39	9.35

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA HOURS AND EARNINGS

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
OKLAHOMA	\$239.72	\$265.28	\$267.55	40.7	40.5	40.6	\$5.89	\$6.55	\$6.59
Oklahoma City	229.89	261.81	271.58	39.5	41.1	41.4	5.82	6.37	6.56
Tulsa	255.15	286.31	283.51	40.5	40.1	40.1	6.30	7.14	7.07
OREGON	280.47	316.29	312.02	38.9	39.0	39.1	7.21	8.11	7.98
Eugene—Springfield	312.05	352.76	(*)	39.6	40.5	(*)	7.88	8.71	(*)
Jackson County	291.78	322.04	(*)	38.8	38.8	(*)	7.52	8.30	(*)
Portland	265.18	296.44	297.99	38.1	38.3	38.5	6.96	7.74	7.74
PENNSYLVANIA	257.44	277.31	279.49	40.1	39.9	39.7	6.42	6.95	7.04
Allentown—Bethlehem—Easton	252.29	277.59	282.21	38.4	38.5	38.5	6.57	7.21	7.33
Altoona	208.45	235.38	235.95	37.9	39.1	39.0	5.50	6.02	6.05
Delaware Valley	266.12	281.30	284.00	40.2	39.9	40.0	6.62	7.05	7.10
Erie	262.06	282.40	286.75	41.4	40.4	41.2	6.33	6.99	6.96
Harrisburg	228.05	265.74	268.79	39.8	41.2	41.1	5.73	6.45	6.54
Johnstown	264.03	302.30	298.90	39.0	40.2	39.8	6.77	7.52	7.51
Lancaster	225.20	245.01	244.82	40.0	40.7	40.6	5.63	6.02	6.03
Northeast Pennsylvania	187.75	198.97	202.74	37.4	37.4	37.4	5.02	5.32	5.42
Philadelphia SMSA	263.31	279.60	281.50	40.2	40.0	40.1	6.55	6.99	7.02
Pittsburgh	315.52	349.00	345.32	40.4	41.4	40.2	7.81	8.43	8.59
Reading	227.95	244.22	250.75	38.9	38.1	38.4	5.86	6.41	6.53
Scranton	197.79	207.50	207.37	39.4	39.6	39.2	5.02	5.24	5.29
Wilkes-Barre—Hazleton	180.36	192.96	198.53	36.0	35.8	35.9	4.95	5.39	5.53
Williamsport	229.77	236.74	245.55	40.1	38.0	39.1	5.73	6.23	6.28
York	239.87	255.23	258.75	41.5	41.3	41.4	5.78	6.18	6.25
RHODE ISLAND	181.50	199.17	195.71	38.7	38.9	38.3	4.69	5.12	5.11
Providence—Warwick—Pawtucket	181.58	198.90	195.20	38.8	39.0	38.5	4.68	5.10	5.07
SOUTH CAROLINA	193.73	207.98	209.50	40.7	40.7	40.6	4.76	5.11	5.16
Charleston—North Charleston	221.40	230.22	227.92	41.0	39.9	39.5	5.40	5.77	5.77
Columbia	186.12	203.26	206.44	39.6	39.7	39.7	4.70	5.12	5.20
Greenville—Spartanburg	191.76	204.62	207.87	40.8	40.6	40.6	4.70	5.04	5.12
SOUTH DAKOTA	215.66	252.11	242.65	41.0	44.7	42.2	5.26	5.64	5.75
Rapid City	178.82	174.03	185.33	35.2	35.3	35.3	5.08	4.93	5.25
Sioux Falls	271.58	363.79	336.54	42.5	52.8	47.2	6.39	6.89	7.13
TENNESSEE	206.92	217.71	220.40	40.1	39.8	40.0	5.16	5.47	5.51
Chattanooga	215.13	221.29	228.58	40.9	39.8	40.6	5.26	5.56	5.63
Knoxville	247.52	264.31	259.77	41.6	40.6	40.4	5.95	6.51	6.43
Memphis	240.49	257.51	261.53	40.9	39.8	40.8	5.88	6.47	6.41
Nashville—Davidson	228.80	239.19	237.01	41.3	40.2	39.9	5.54	5.95	5.94
TEXAS	244.36	259.94	263.98	41.7	40.3	40.8	5.86	6.45	6.47
Amarillo	229.39	257.64	265.43	40.6	43.3	43.3	5.65	5.95	6.13
Austin	187.05	196.80	200.16	41.2	40.0	40.6	4.54	4.92	4.93
Beaumont—Port Arthur—Orange	343.99	369.46	372.28	41.0	40.6	41.0	8.39	9.10	9.08
Corpus Christi	278.36	306.36	309.44	41.3	41.4	42.1	6.74	7.40	7.35
Dallas—Fort Worth	224.82	237.94	240.57	41.1	39.2	40.5	5.47	6.07	5.94
El Paso	182.22	183.54	195.82	39.7	38.0	39.4	4.59	4.83	4.97
Galveston—Texas City	387.90	406.81	410.73	43.1	42.2	42.3	9.00	9.64	9.71
Houston	306.07	327.51	330.79	43.6	42.7	42.3	7.02	7.67	7.82
Lubbock	178.35	192.76	196.61	39.9	39.1	39.8	4.47	4.93	4.94
San Antonio	180.24	188.80	196.99	39.7	40.0	40.7	4.54	4.72	4.84
Waco	210.83	227.77	229.55	40.7	40.6	40.7	5.18	5.61	5.64
Wichita Falls	216.80	233.79	246.43	40.6	38.9	40.8	5.34	6.01	6.04
UTAH	224.43	245.36	245.78	39.1	38.7	39.2	5.74	6.34	6.27
Salt Lake City—Ogden	214.50	229.88	230.30	39.0	38.7	39.3	5.50	5.94	5.86
VERMONT	210.64	220.65	228.22	40.9	39.9	40.9	5.15	5.53	5.58
Burlington	240.55	242.49	260.22	42.5	41.1	42.8	5.66	5.90	6.08
Springfield	241.34	246.14	266.90	41.9	39.7	41.9	5.76	6.20	6.37
VIRGINIA	203.78	224.40	225.44	39.8	40.0	39.9	5.12	5.61	5.65
Bristol	179.83	198.15	194.18	38.1	37.6	36.5	4.72	5.27	5.32
Lynchburg	211.53	226.89	219.45	40.6	40.3	38.5	5.21	5.63	5.70
Norfolk—Virginia Beach—Portsmouth	225.18	263.13	259.12	40.5	41.7	41.0	5.56	6.31	6.32
Northern Virginia	242.84	246.64	254.78	41.3	39.4	39.5	5.88	6.26	6.45
Petersburg-Colonial Heights-Hopewell	244.86	272.20	291.80	38.2	38.5	39.7	6.41	7.07	7.35

See footnotes at end of table.

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

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

State and area	Average weekly earnings			Average weekly hours			Average hourly earnings		
	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P	AUG 1978	JULY 1979	AUG 1979P
VIRGINIA—Continued									
Richmond	\$250.22	\$268.13	\$268.09	40.1	39.9	39.6	\$6.24	\$6.72	\$6.77
Roanoke	187.60	199.17	208.38	40.0	38.9	40.7	4.69	5.12	5.12
WASHINGTON	300.65	326.02	(*)	39.3	38.4	(*)	7.65	8.49	(*)
Seattle—Everett	305.35	325.08	(*)	39.4	38.7	(*)	7.75	8.40	(*)
Spokane	259.94	280.36	(*)	40.3	36.6	(*)	6.45	7.66	(*)
Tacoma	294.14	310.22	(*)	38.5	36.8	(*)	7.64	8.43	(*)
WEST VIRGINIA	272.95	287.96	295.57	39.5	39.5	39.2	6.91	7.29	7.54
Charleston	313.12	321.57	321.77	42.2	41.6	41.2	7.42	7.73	7.81
Huntington—Ashland	294.71	316.40	326.70	39.4	39.5	39.6	7.48	8.01	8.25
Parkersburg—Marietta	278.92	311.41	303.89	40.6	41.8	40.9	6.87	7.45	7.43
Wheeling	288.56	310.59	313.80	41.4	40.6	40.7	6.97	7.65	7.71
WISCONSIN	273.35	291.02	293.76	41.1	40.5	40.8	6.64	7.18	7.20
Appleton—Oshkosh	267.62	296.77	294.61	41.6	42.0	41.9	6.43	7.07	7.04
Eau Claire	269.96	288.05	297.78	40.5	40.6	41.5	6.66	7.10	7.18
Green Bay	280.75	302.12	302.87	42.7	41.3	42.2	6.57	7.31	7.17
Kenosha	336.08	329.55	364.88	42.1	40.1	41.7	7.98	8.23	8.76
La Crosse	214.37	234.56	222.12	39.1	39.8	40.1	5.49	5.89	5.54
Madison	275.76	299.38	291.27	40.5	40.2	40.2	6.81	7.44	7.24
Milwaukee	300.84	318.56	323.57	40.8	40.4	40.7	7.38	7.89	7.94
Racine	292.17	313.04	301.00	40.9	40.9	39.8	7.14	7.66	7.56
WYOMING	252.63	251.10	253.46	40.1	37.2	38.0	6.30	6.75	6.67
Casper	286.63	316.61	313.62	40.2	38.1	39.8	7.13	8.31	7.88
Cheyenne	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

¹ Data for 1979 are not strictly comparable with earlier years.

² Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Burlington, Camden, and Gloucester Counties, New Jersey.

³ Subarea of New York-Northeastern New Jersey.

⁴ Subarea of Rochester Standard Metropolitan Statistical Area.

⁵ Area included in New York and Nassau-Suffolk combined SMSA's.

⁶ Subarea of New York Standard Metropolitan Statistical Area.

⁷ Subarea of Philadelphia, Pennsylvania Standard Metropolitan Statistical Area: Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pennsylvania.

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

⁹ Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area: Luzerne County.

¹⁰ Subarea of Washington, D.C. Standard Metropolitan Statistical Area: Alexandria, Fairfax, Falls Church, Manassas, and Manassas Park cities and Arlington, Fairfax, Loudoun, and Prince William Counties, Virginia.

p=preliminary.

* Not available.

SOURCE—Cooperating State agencies listed on inside back cover.

ESTABLISHMENT DATA LABOR TURNOVER

D-1. Labor turnover rates in manufacturing, 1969 to date

[Per 100 employees]

Year	Annual average	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions													
1969	4.7	4.6	3.9	4.4	4.5	4.8	6.6	5.1	5.6	5.9	5.0	3.6	2.9
1970	4.0	4.0	3.6	3.7	3.7	4.2	5.4	4.4	5.1	4.7	3.8	3.0	2.4
1971	3.9	3.5	3.1	3.5	3.6	4.0	4.9	4.0	5.3	4.8	3.9	3.3	2.5
1972	4.5	4.1	3.7	4.0	4.1	4.9	5.4	4.7	6.1	5.4	4.8	3.7	2.7
1973	4.8	4.7	4.1	4.5	4.6	5.4	5.9	5.2	6.3	5.8	5.2	3.8	2.6
1974	4.2	4.2	3.7	4.1	4.5	5.1	5.4	4.9	5.5	4.9	3.8	2.4	1.8
1975	3.7	2.9	2.7	3.2	3.7	4.0	4.5	4.6	5.2	4.6	3.7	2.8	2.2
1976	3.9	3.9	3.5	4.2	3.9	4.5	4.8	4.2	5.1	4.4	3.5	2.9	2.2
1977	4.0	3.7	3.7	4.0	3.8	4.6	4.9	4.3	5.3	4.6	3.9	3.1	2.4
1978	4.1	3.8	3.2	3.8	4.0	4.7	4.9	4.4	5.4	4.9	4.3	3.3	2.4
1979	-	4.0	3.4	3.8	3.9	4.7	4.8	4.3	5.0 ^P				
New hires													
1969	3.7	3.3	3.0	3.4	3.5	3.8	5.4	3.9	4.3	4.8	4.0	2.8	2.1
1970	2.8	2.9	2.5	2.6	2.6	2.8	3.9	3.0	3.5	3.4	2.7	1.9	1.4
1971	2.6	2.0	1.9	2.2	2.3	2.7	3.5	2.7	3.4	3.4	2.7	2.2	1.6
1972	3.3	2.6	2.5	2.8	2.9	3.7	4.2	3.5	4.5	4.3	3.9	2.9	2.1
1973	3.9	3.5	3.2	3.5	3.7	4.5	5.0	4.1	5.1	4.8	4.4	3.1	2.0
1974	3.2	3.2	2.8	3.1	3.3	4.0	4.3	3.7	4.2	3.9	2.9	1.7	1.0
1975	2.0	1.3	1.2	1.3	1.6	2.0	2.5	2.6	3.1	3.1	2.5	1.8	1.3
1976	2.6	2.1	2.1	2.7	2.6	3.1	3.6	2.9	3.6	3.2	2.5	1.9	1.3
1977	2.8	2.2	2.1	2.6	2.7	3.5	3.7	3.0	4.0	3.5	3.0	2.2	1.6
1978	3.1	2.5	2.2	2.7	2.9	3.6	3.9	3.3	4.2	3.9	3.5	2.6	1.7
1979	-	2.8	2.5	2.8	2.9	3.6	3.8	3.1	3.7 ^P				
Recalls													
1976	1.0	1.4	1.0	1.2	1.0	1.0	.9	1.1	1.1	.8	.7	.7	.7
1977	.9	1.2	1.3	1.1	.9	.8	.8	.9	1.0	.8	.6	.6	.6
1978	.7	1.0	.7	.8	.8	.8	.7	.8	.9	.7	.6	.5	.5
1979	-	.9	.7	.7	.7	.8	.7	.9	1.0 ^P				
Total separations													
1969	4.9	4.5	4.0	4.4	4.5	4.6	4.6	5.3	6.2	6.6	5.4	4.3	4.2
1970	4.8	4.8	4.3	4.4	4.8	4.6	4.4	5.3	5.6	6.0	5.3	4.3	4.1
1971	4.2	4.2	3.5	3.7	3.9	3.7	3.8	4.8	5.5	5.3	4.3	3.7	3.8
1972	4.3	4.1	3.5	3.9	3.8	3.9	4.2	4.8	5.5	5.5	4.4	3.8	3.7
1973	4.7	4.3	3.8	4.3	4.2	4.4	4.5	5.2	6.5	5.8	5.0	4.2	4.0
1974	4.9	5.0	4.1	4.4	4.3	4.4	4.2	4.9	6.2	5.5	5.1	5.0	5.2
1975	4.2	6.1	4.5	4.2	4.0	3.9	3.7	4.4	4.7	4.4	4.1	3.5	3.4
1976	3.8	3.7	3.0	3.5	3.6	3.4	3.6	4.3	4.9	4.7	4.1	3.4	3.5
1977	3.8	3.9	3.4	3.4	3.4	3.5	3.5	4.3	5.1	4.9	3.8	3.4	3.4
1978	3.9	3.6	3.1	3.5	3.6	3.7	3.8	4.1	5.3	4.8	4.1	3.5	3.4
1979	-	3.8	3.2	3.6	3.6	3.8	3.9	4.3	5.8 ^P				
Quits													
1969	2.7	2.3	2.1	2.4	2.6	2.7	2.6	2.7	4.0	4.4	3.0	2.1	1.6
1970	2.1	2.1	1.9	2.0	2.1	2.1	2.1	2.1	3.0	3.3	2.1	1.4	1.2
1971	1.8	1.5	1.3	1.5	1.6	1.7	1.8	1.8	2.8	2.9	2.0	1.5	1.2
1972	2.3	1.7	1.6	1.9	2.0	2.2	2.2	2.2	3.6	3.5	2.5	2.0	1.6
1973	2.8	2.3	2.1	2.5	2.5	2.8	2.8	2.8	4.6	4.0	3.1	2.3	1.6
1974	2.4	2.2	2.0	2.3	2.4	2.7	2.5	2.6	4.0	3.3	2.2	1.4	1.0
1975	1.4	1.1	.9	1.0	1.1	1.3	1.4	1.5	2.5	2.1	1.6	1.2	.9
1976	1.7	1.3	1.2	1.6	1.7	1.7	1.8	1.9	2.8	2.5	1.7	1.2	1.0
1977	1.8	1.4	1.3	1.6	1.7	1.9	1.9	1.9	3.1	2.8	1.9	1.5	1.2
1978	2.1	1.5	1.4	1.8	2.0	2.1	2.2	2.1	3.5	3.1	2.3	1.7	1.3
1979	-	1.8	1.6	1.9	2.0	2.1	2.1	2.0	3.3 ^P				
Layoffs													
1969	1.2	1.2	1.0	1.0	.9	.9	1.0	1.6	1.1	1.1	1.3	1.3	1.8
1970	1.8	1.7	1.5	1.6	1.7	1.5	1.5	2.3	1.7	1.7	2.2	2.1	2.2
1971	1.6	1.9	1.4	1.4	1.4	1.2	1.2	2.1	1.8	1.5	1.5	1.5	1.8
1972	1.1	1.5	1.1	1.1	1.0	.9	1.1	1.7	.9	.9	1.0	1.0	1.3
1973	.9	1.1	.8	.8	.7	.7	.7	1.4	.8	.8	.8	1.1	1.6
1974	1.5	1.8	1.3	1.1	.9	.8	.8	1.4	1.1	1.2	1.8	2.8	3.6
1975	2.1	4.0	2.9	2.5	2.1	1.8	1.6	2.0	1.3	1.5	1.6	1.7	1.9
1976	1.3	1.6	1.0	1.1	1.1	.9	.9	1.6	1.1	1.3	1.5	1.5	1.8
1977	1.1	1.7	1.4	1.0	.9	.8	.8	1.5	1.0	1.1	1.1	1.1	1.5
1978	.9	1.2	.9	.9	.8	.7	.7	1.0	.8	.8	.9	1.0	1.4
1979	-	1.1	.8	.8	.9	.7	.8	1.4	1.4 ^P				

^Ppreliminary.

NOTE: See note to table C-1.

ESTABLISHMENT DATA
LABOR TURNOVER

D-2. Labor turnover rates, by industry

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P
-	MANUFACTURING	4.3	5.0	3.1	3.7	0.9	1.0	4.3	5.8	2.0	3.3	1.4	1.4
24, 25, 32-39	DURABLE GOODS	3.7	4.2	2.7	3.1	.7	.8	4.0	5.4	1.7	2.8	1.3	1.4
20-23, 26-31	NONDURABLE GOODS	5.2	6.1	3.7	4.6	1.2	1.3	4.8	6.3	2.5	4.1	1.4	1.2
	DURABLE GOODS												
24	LUMBER AND WOOD PRODUCTS	5.7	6.5	4.9	5.7	.6	.6	5.5	7.6	3.6	5.4	.7	.8
242	Sawmills and planing mills	4.5	-	3.8	-	.4	-	4.3	-	2.9	-	.4	-
2421	Sawmills and planing mills, general	3.9	-	3.4	-	.3	-	3.7	-	2.6	-	.3	-
243	Millwork, plywood, and structural members	5.4	-	4.7	-	.6	-	5.6	-	3.4	-	.9	-
2431	Millwork	4.5	-	3.6	-	.7	-	5.4	-	2.9	-	1.6	-
244	Wooden containers	7.1	-	6.4	-	.6	-	8.5	-	6.5	-	.9	-
245	Wood buildings and mobile homes	9.9	-	9.1	-	.7	-	9.3	-	6.0	-	1.2	-
2451	Mobile homes	11.4	-	10.7	-	.6	-	10.4	-	7.2	-	.6	-
249	Miscellaneous wood products	5.1	-	4.2	-	.6	-	5.2	-	3.1	-	1.2	-
25	FURNITURE AND FIXTURES	5.9	7.2	4.4	5.6	1.3	1.4	5.9	7.8	3.2	4.7	1.5	1.5
251	Household furniture	6.4	-	4.6	-	1.6	-	6.4	-	3.6	-	1.5	-
2511	Wood household furniture	6.8	-	4.9	-	1.8	-	7.1	-	4.0	-	1.8	-
2512	Upholstered household furniture	5.4	-	4.3	-	1.0	-	5.5	-	3.2	-	1.3	-
2515	Mattresses and bedsprings	6.4	-	5.6	-	.6	-	5.6	-	3.5	-	.6	-
252	Office furniture	4.7	-	3.3	-	1.3	-	4.0	-	2.0	-	1.1	-
254	Partitions and fixtures	5.7	-	5.0	-	.7	-	5.3	-	2.9	-	1.1	-
32	STONE, CLAY, AND GLASS PRODUCTS	4.3	4.7	3.4	3.8	.7	.8	3.8	5.8	2.1	3.6	.8	1.1
322	Glass and glassware, pressed or blown	3.6	-	2.3	-	1.0	-	3.2	-	1.2	-	1.0	-
3221	Glass containers	3.2	-	2.0	-	1.0	-	2.6	-	1.2	-	.7	-
3229	Pressed and blown glass, nec	4.2	-	2.7	-	1.0	-	4.0	-	1.1	-	1.4	-
323	Products of purchased glass	3.5	-	2.6	-	.7	-	4.6	-	2.2	-	1.2	-
324	Cement, hydraulic	1.0	-	.9	-	.1	-	1.2	-	.5	-	.1	-
325	Structural clay products	5.9	-	5.2	-	.6	-	6.2	-	4.3	-	.9	-
326	Pottery and related products	3.6	-	3.2	-	.3	-	3.2	-	2.0	-	.4	-
327	Concrete, gypsum, and plaster products	5.8	-	5.0	-	.7	-	4.3	-	2.8	-	.5	-
329	Misc. nonmetallic mineral products	3.8	-	2.7	-	1.0	-	3.4	-	1.6	-	.9	-
33	PRIMARY METAL INDUSTRIES	2.5	2.6	1.7	1.7	.5	.6	3.1	4.4	1.0	1.8	1.1	1.5
331	Blast furnace and basic steel products	2.0	-	1.1	-	.5	-	2.0	-	.4	-	.6	-
3312	Blast furnaces and steel mills	1.9	-	1.0	-	.5	-	1.8	-	.2	-	.5	-
332	Iron and steel foundries	2.9	-	2.3	-	.4	-	4.9	-	1.7	-	1.9	-
3321	Gray iron foundries	2.6	-	2.1	-	.3	-	5.1	-	1.8	-	2.0	-
3325	Steel foundries, nec	3.1	-	2.6	-	.4	-	3.1	-	1.6	-	.4	-
333	Primary nonferrous metals	1.4	-	1.1	-	.1	-	1.5	-	.6	-	.2	-
336	Nonferrous rolling and drawing	2.4	-	1.7	-	.5	-	2.3	-	.9	-	.7	-
3361	Copper rolling and drawing	2.2	-	1.9	-	.2	-	2.2	-	1.1	-	.3	-
3363	Aluminum sheet, plate, and foil	1.1	-	.9	-	(1)	-	1.5	-	.4	-	.7	-
3357	Nonferrous wire drawing and insulating	2.8	-	1.6	-	1.1	-	2.7	-	.8	-	1.1	-
336	Nonferrous foundries	4.7	-	3.4	-	1.0	-	6.8	-	2.2	-	3.3	-
3361	Aluminum foundries	4.7	-	3.5	-	1.0	-	7.1	-	2.1	-	3.6	-
34	FABRICATED METAL PRODUCTS	4.1	4.7	3.1	3.7	.8	.8	4.5	5.8	2.1	3.3	1.5	1.5
341	Metal cans and shipping containers	3.8	-	1.7	-	1.5	-	3.4	-	.9	-	1.4	-
3411	Metal cans	3.9	-	1.5	-	1.8	-	3.2	-	.7	-	1.4	-
342	Cutlery, hand tools, and hardware	3.1	-	2.5	-	.5	-	4.4	-	1.6	-	2.0	-
3423, 5	Hand and edge tools, and hand saws and blades	3.1	-	2.6	-	.4	-	3.5	-	1.6	-	1.1	-
3429	Hardware, nec	3.0	-	2.5	-	.4	-	4.8	-	1.7	-	2.2	-
343	Plumbing and heating, except electric	4.4	-	3.7	-	.6	-	4.0	-	2.3	-	.9	-
344	Fabricated structural metal products	4.8	-	4.0	-	.7	-	4.2	-	2.5	-	.8	-
3441	Fabricated structural metal	5.7	-	4.9	-	.7	-	4.5	-	2.6	-	.7	-
3442	Metal doors, sash, and trim	5.9	-	5.1	-	.7	-	5.4	-	3.7	-	.6	-
3443	Fabricated plate work (boiler shops)	3.1	-	2.4	-	.6	-	2.7	-	1.4	-	.6	-
3444	Sheet metal work	5.2	-	4.5	-	.6	-	4.7	-	2.9	-	1.0	-
345	Screw machine products, bolts, etc.	3.6	-	3.1	-	.4	-	4.1	-	2.2	-	.7	-
3451	Screw machine products	4.6	-	4.0	-	.6	-	4.8	-	2.8	-	.5	-
3452	Bolts, nuts, rivets, and washers	2.7	-	2.3	-	.3	-	3.4	-	1.7	-	.8	-
346	Metal forgings and stampings	3.7	-	2.0	-	1.2	-	5.9	-	1.6	-	3.3	-
3462	Iron and steel forgings	1.9	-	1.5	-	.3	-	5.2	-	1.0	-	3.4	-
3465	Automotive stampings	3.6	-	.5	-	2.0	-	7.8	-	1.0	-	6.0	-
3469	Metal stampings, nec	4.6	-	3.4	-	1.0	-	4.9	-	2.3	-	1.4	-
347	Metal services, nec	5.9	-	4.9	-	.8	-	6.4	-	3.3	-	1.6	-
348	Ordnance and accessories, nec	1.9	-	1.5	-	.3	-	1.5	-	.9	-	.2	-
349	Misc. fabricated metal products	3.8	-	2.8	-	.9	-	3.9	-	2.0	-	1.1	-
3494	Valves and pipe fittings	3.1	-	2.1	-	.8	-	2.6	-	1.4	-	.5	-
3496	Misc. fabricated wire products	5.9	-	4.3	-	1.3	-	6.5	-	3.3	-	2.1	-

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		July 1979	Aug. 1979 ^p	July 1979	Aug. 1979 ^p	July 1979	Aug. 1979 ^p	July 1979	Aug. 1979 ^p	July 1979	Aug. 1979 ^p	July 1979	Aug. 1979 ^p
35	MACHINERY, EXCEPT ELECTRICAL	3.0	3.0	2.3	2.3	0.4	0.3	2.8	3.8	1.3	2.2	0.6	0.6
351	Engines and turbines	4.2	—	.9	—	2.4	—	3.6	—	.4	—	1.9	—
3511	Turbines and turbine generator sets	1.5	—	.5	—	.1	—	2.4	—	.3	—	.3	—
3519	Internal combustion engines, nec	5.3	—	1.1	—	3.3	—	4.1	—	.5	—	2.5	—
352	Farm and garden machinery	3.3	—	2.8	—	.2	—	3.2	—	1.6	—	.8	—
3523	Farm machinery and equipment	3.3	—	2.7	—	.2	—	2.6	—	1.6	—	.3	—
353	Construction and related machinery	2.6	—	1.9	—	.4	—	2.3	—	1.2	—	.5	—
3531	Construction machinery	1.8	—	1.3	—	.3	—	1.6	—	.8	—	.2	—
3533	Oil field machinery	4.2	—	3.0	—	1.0	—	3.6	—	1.8	—	1.0	—
354	Metalworking machinery	2.8	—	2.2	—	.3	—	2.6	—	1.3	—	.5	—
3541	Machine tools, metal cutting types	1.9	—	1.7	—	.1	—	1.4	—	.8	—	.1	—
3544	Special dies, tools, jigs, and fixtures	3.4	—	2.4	—	.4	—	3.5	—	1.6	—	.7	—
3545	Machine tool accessories	2.6	—	2.3	—	.2	—	2.4	—	1.3	—	.3	—
355	Special industry machinery	2.5	—	2.1	—	.2	—	2.2	—	1.2	—	.3	—
3551	Food products machinery	2.2	—	1.9	—	.2	—	2.2	—	1.2	—	.3	—
3552	Textile machinery	3.0	—	2.1	—	.5	—	3.7	—	1.8	—	1.2	—
356	General industrial machinery	2.5	—	2.0	—	.3	—	2.4	—	1.1	—	.6	—
3561	Pumps and pumping equipment	1.8	—	1.6	—	.1	—	1.8	—	1.0	—	.2	—
3562	Ball and roller bearings	2.5	—	1.8	—	.2	—	2.0	—	.7	—	.5	—
3564	Blowers and fans	3.3	—	2.7	—	.4	—	4.0	—	1.4	—	1.8	—
357	Office and computing machines	3.3	—	2.9	—	.2	—	2.2	—	1.3	—	.1	—
3573	Electronic computing equipment	3.2	—	2.8	—	.2	—	2.0	—	1.2	—	.1	—
358	Refrigeration and service machinery	2.9	—	2.0	—	.6	—	4.4	—	1.4	—	1.9	—
3585	Refrigeration and heating equipment	2.9	—	1.9	—	.5	—	4.9	—	1.4	—	2.3	—
359	Misc. machinery, except electrical	3.8	—	3.3	—	.4	—	3.8	—	2.3	—	.6	—
36	ELECTRIC AND ELECTRONIC EQUIPMENT	3.5	4.0	2.5	2.9	.6	.6	3.7	5.0	1.6	2.9	1.1	.9
361	Electric distributing equipment	3.3	—	2.3	—	.5	—	3.3	—	1.6	—	.4	—
3612	Transformers	2.9	—	1.9	—	.4	—	2.9	—	1.3	—	.5	—
3613	Switchgear and switchboard apparatus	3.6	—	2.7	—	.5	—	3.6	—	1.9	—	.4	—
362	Electrical industrial apparatus	2.4	—	1.8	—	.2	—	3.0	—	1.3	—	.9	—
3621	Motors and generators	2.4	—	1.7	—	.2	—	3.7	—	1.4	—	1.5	—
3622	Industrial controls	2.7	—	2.1	—	.3	—	2.4	—	1.3	—	.3	—
363	Household appliances	4.2	—	2.5	—	1.1	—	5.4	—	1.7	—	2.1	—
3632	Household refrigerators and freezers	5.5	—	1.6	—	2.5	—	7.8	—	1.9	—	3.3	—
3633	Household laundry equipment	2.7	—	1.3	—	1.0	—	1.8	—	.8	—	(1)	—
3634	Electric housewares and fans	4.5	—	3.5	—	.7	—	4.9	—	2.5	—	1.3	—
364	Electric lighting and wiring equipment	4.2	—	2.5	—	1.4	—	5.1	—	1.6	—	2.6	—
3641	Electric lamps	1.3	—	.7	—	.3	—	2.2	—	.7	—	.8	—
3643	Current-carrying wiring devices	3.5	—	2.7	—	.5	—	3.3	—	1.5	—	1.0	—
365	Radio and TV receiving equipment	3.9	—	2.0	—	1.1	—	4.6	—	1.4	—	2.3	—
3651	Radio and TV receiving sets	3.9	—	1.8	—	1.1	—	4.4	—	1.2	—	2.1	—
366	Communication equipment	2.6	—	2.1	—	.3	—	1.9	—	1.0	—	.3	—
3661	Telephone and telegraph apparatus	1.8	—	1.3	—	.4	—	1.3	—	.5	—	.3	—
3662	Radio and TV communication equipment	2.9	—	2.4	—	.2	—	2.2	—	1.2	—	.3	—
367	Electronic components and accessories	4.6	—	3.8	—	.5	—	4.0	—	2.5	—	.6	—
3671-3	Electronic tubes	1.8	—	1.2	—	.2	—	2.5	—	.7	—	1.0	—
3674	Semiconductors and related devices	3.7	—	3.3	—	.2	—	2.6	—	1.7	—	.1	—
3679	Electronic components, nec	5.7	—	4.6	—	.9	—	5.1	—	3.2	—	1.0	—
369	Misc. electrical equipment and supplies	3.5	—	1.9	—	1.3	—	5.3	—	1.3	—	2.2	—
3694	Engine electrical equipment	2.8	—	1.3	—	1.2	—	5.6	—	1.0	—	3.4	—
37	TRANSPORTATION EQUIPMENT	3.2	—	1.9	—	.8	—	5.0	—	1.1	—	2.9	—
371	Motor vehicles and equipment	2.3	—	1.2	—	.5	—	7.2	—	.9	—	5.1	—
3711	Motor vehicles and car bodies	2.2	—	1.3	—	.3	—	7.4	—	.8	—	5.8	—
3713	Truck and bus bodies	3.6	—	2.5	—	1.0	—	3.8	—	2.3	—	.7	—
3714	Motor vehicle parts and accessories	2.1	—	.7	—	.6	—	7.6	—	.8	—	5.2	—
3715	Truck trailers	5.5	—	4.3	—	1.1	—	5.5	—	2.5	—	1.3	—
372	Aircraft and parts	2.8	—	2.4	—	.1	—	1.7	—	1.0	—	.1	—
3721	Aircraft	2.6	—	2.2	—	.1	—	1.5	—	.9	—	.1	—
3724	Aircraft engines and engine parts	2.2	—	1.8	—	.1	—	1.4	—	.6	—	.2	—
3728	Aircraft equipment, nec	4.1	—	3.7	—	.2	—	2.8	—	1.8	—	.1	—
373	Ship and boat building and repairing	7.5	—	3.6	—	3.8	—	5.9	—	2.4	—	2.5	—
3731	Ship building and repairing	8.5	—	4.0	—	4.4	—	5.4	—	2.2	—	2.3	—
3732	Boat building and repairing	5.9	—	3.1	—	2.7	—	2.5	—	1.2	—	.6	—
374	Railroad equipment	4.2	—	1.8	—	1.8	—	3.7	—	.6	—	1.3	—
376	Guided missiles, space vehicles, parts	2.9	—	1.9	—	.4	—	1.4	—	.7	—	.2	—
3761	Guided missiles and space vehicles	3.0	—	1.8	—	.5	—	1.2	—	.6	—	.2	—
379	Miscellaneous transportation equipment	6.5	—	2.8	—	3.2	—	7.2	—	2.6	—	3.9	—
38	INSTRUMENTS AND RELATED PRODUCTS	2.7	3.1	2.2	2.5	.3	.4	2.3	4.0	1.3	2.6	.4	.5
381	Engineering and scientific instruments	2.2	—	2.0	—	.1	—	1.7	—	1.2	—	.2	—
382	Measuring and controlling devices	3.2	—	2.4	—	.4	—	2.4	—	1.3	—	.5	—
3822	Environmental controls	3.2	—	1.8	—	1.0	—	2.7	—	1.2	—	.9	—
3823	Process control instruments	2.4	—	2.0	—	.1	—	2.1	—	1.3	—	.1	—
3825	Instruments to measure electricity	3.9	—	3.0	—	.4	—	2.2	—	1.3	—	.4	—

See footnotes at end of table.

**ESTABLISHMENT DATA
LABOR TURNOVER**

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P
INSTRUMENTS AND RELATED PRODUCTS—Cont'd													
383	Optical instruments and lenses	3.0	—	2.8	—	0.1	—	2.0	—	1.4	—	0.1	—
384	Medical instruments and supplies	2.6	—	2.2	—	.3	—	2.9	—	1.7	—	.5	—
3841	Surgical and medical instruments	3.1	—	2.6	—	.3	—	3.3	—	2.1	—	.5	—
3842	Surgical appliances and supplies	2.3	—	1.8	—	.3	—	2.8	—	1.5	—	.6	—
386	Ophthalmic goods	3.9	—	2.7	—	.6	—	4.3	—	2.2	—	1.3	—
386	Photographic equipment and supplies	1.6	—	1.5	—	(¹)	—	1.1	—	.6	—	.1	—
387	Watches, clocks, and watchcases	3.3	—	2.1	—	1.0	—	3.4	—	2.0	—	.5	—
39	MISCELLANEOUS MANUFACTURING INDUSTRIES	6.2	7.2	4.4	5.9	1.5	1.0	6.2	7.4	2.6	4.7	2.2	1.2
391	Jewelry, silverware, and plated ware	4.9	—	2.4	—	2.3	—	6.7	—	2.0	—	4.0	—
393	Musical instruments	4.4	—	2.3	—	1.7	—	5.5	—	2.5	—	2.2	—
394	Toys and sporting goods	9.4	—	7.1	—	2.0	—	7.3	—	3.0	—	2.2	—
3942,4	Dolls, games, toys, and children's vehicles	13.4	—	9.8	—	3.3	—	8.1	—	3.9	—	1.7	—
3949	Sporting and athletic goods, nec	5.6	—	4.5	—	.7	—	6.5	—	2.2	—	2.6	—
395	Pens, pencils, office and art supplies	3.7	—	2.7	—	1.0	—	4.4	—	1.9	—	1.3	—
396	Costume jewelry and notions	6.7	—	3.9	—	2.3	—	8.6	—	4.1	—	3.7	—
399	Miscellaneous manufactures	4.7	—	3.9	—	.7	—	4.7	—	2.1	—	1.3	—
NONDURABLE GOODS													
20	FOOD AND KINDRED PRODUCTS	9.0	10.9	6.4	8.2	2.4	2.5	6.0	8.3	3.3	5.6	1.8	1.7
201	Meat products	8.1	—	6.3	—	1.4	—	6.6	—	5.0	—	.7	—
2011	Meat packing plants	5.2	—	3.0	—	1.8	—	3.7	—	1.9	—	1.0	—
2013	Sausages and other prepared meats	5.4	—	3.4	—	1.8	—	4.4	—	2.3	—	1.2	—
2016	Poultry dressing plants	13.5	—	12.2	—	.7	—	11.8	—	10.7	—	.1	—
202	Dairy products	4.0	—	3.2	—	.6	—	3.4	—	2.3	—	.5	—
203	Preserved fruits and vegetables	26.1	—	17.1	—	8.8	—	11.8	—	4.8	—	6.1	—
204	Grain mill products	4.2	—	3.1	—	.9	—	3.4	—	1.9	—	.7	—
205	Bakery products	3.9	—	3.5	—	.3	—	3.2	—	2.2	—	.5	—
2051	Bread, cake, and related products	3.8	—	3.5	—	.2	—	3.3	—	2.3	—	.4	—
2052	Cookies and crackers	4.6	—	3.5	—	.8	—	3.0	—	1.7	—	.7	—
206	Sugar and confectionery products	6.9	—	3.2	—	3.5	—	4.7	—	1.7	—	2.2	—
207	Fats and oils	3.5	—	2.8	—	.6	—	3.9	—	1.9	—	1.1	—
208	Beverages	5.5	—	3.9	—	1.4	—	4.4	—	2.4	—	1.0	—
2082	Malt beverages	4.5	—	1.7	—	2.6	—	3.8	—	.6	—	1.8	—
2086	Bottled and canned soft drinks	6.1	—	5.3	—	.7	—	4.8	—	3.5	—	.4	—
209	Misc. foods and kindred products	9.3	—	6.8	—	2.2	—	8.3	—	3.7	—	3.4	—
21	TOBACCO MANUFACTURES	3.8	—	.9	—	1.8	—	2.3	—	.6	—	1.2	—
211	Cigarettes .....	.6	—	.3	—	.2	—	1.0	—	.3	—	.2	—
22	TEXTILE MILL PRODUCTS	5.1	5.8	3.8	4.6	1.0	.8	5.5	6.5	3.1	4.4	1.3	.9
221	Weaving mills, cotton	4.2	—	3.3	—	.2	—	4.2	—	2.7	—	.3	—
222	Weaving mills, synthetics	4.5	—	3.5	—	.7	—	4.4	—	3.0	—	.5	—
223	Weaving and finishing mills, wool	5.3	—	4.2	—	.9	—	7.3	—	3.3	—	2.8	—
224	Narrow fabric mills	10.6	—	3.5	—	6.9	—	12.1	—	3.0	—	8.2	—
225	Knitting mills	5.1	—	3.9	—	1.0	—	5.2	—	3.2	—	1.1	—
2251	Women's hosiery, except socks	5.8	—	5.2	—	.5	—	5.3	—	3.9	—	.6	—
2252	Hosiery, nec	5.3	—	4.7	—	.5	—	5.1	—	4.1	—	.3	—
2253	Knit outerwear mills	6.0	—	4.2	—	1.5	—	5.7	—	3.2	—	1.7	—
2254	Knit underwear mills	4.0	—	3.5	—	.4	—	4.1	—	3.0	—	.5	—
2267	Circular knit fabric mills	4.1	—	2.9	—	1.0	—	5.9	—	2.6	—	1.0	—
226	Textile finishing, except wool	5.5	—	3.1	—	2.0	—	6.7	—	2.4	—	2.5	—
227	Floor covering mills	4.6	—	3.6	—	.8	—	4.9	—	3.1	—	.9	—
228	Yarn and thread mills	6.8	—	5.4	—	1.0	—	7.0	—	4.5	—	1.3	—
229	Miscellaneous textile goods	3.5	—	2.6	—	.7	—	4.5	—	2.0	—	1.5	—
23	APPAREL AND OTHER TEXTILE PRODUCTS	5.9	7.0	3.9	4.8	1.8	1.9	7.1	7.9	3.4	4.8	2.8	2.1
231	Men's and boys' suits and coats	4.5	—	1.7	—	1.9	—	5.9	—	1.8	—	3.4	—
232	Men's and boys' furnishings	6.2	—	4.8	—	1.2	—	6.6	—	4.3	—	1.3	—
2321	Men's and boys' shirts and nightwear	5.7	—	4.4	—	1.0	—	5.8	—	4.0	—	.9	—
2327	Men's and boys' separate trousers	5.4	—	4.5	—	.8	—	6.1	—	4.0	—	1.2	—
2328	Men's and boys' work clothing	7.0	—	6.0	—	.8	—	7.7	—	5.5	—	1.4	—
233	Women's and misses' outerwear	5.8	—	3.1	—	2.4	—	7.4	—	2.9	—	3.5	—
234	Women's and children's undergarments	5.7	—	3.7	—	1.7	—	6.2	—	3.2	—	2.1	—
2341	Women's and children's underwear	5.8	—	3.9	—	1.7	—	6.0	—	3.5	—	1.7	—
2342	Brassieres and allied garments	5.2	—	3.1	—	1.9	—	7.0	—	2.3	—	3.7	—
236	Children's outerwear	3.8	—	2.8	—	.7	—	5.5	—	2.9	—	1.8	—
238	Misc. apparel and accessories	6.6	—	4.5	—	1.8	—	7.7	—	3.5	—	3.0	—
239	Misc. fabricated textile products	7.1	—	4.8	—	2.1	—	8.8	—	3.4	—	4.1	—
26	PAPER AND ALLIED PRODUCTS	2.9	3.2	2.2	2.6	.5	.4	2.7	4.6	1.3	2.8	.6	.8
261,2,6	Paper and pulp mills	1.6	—	1.2	—	.3	—	1.3	—	.6	—	.3	—
262	Paper mills, except building paper	1.4	—	1.1	—	.2	—	1.1	—	.5	—	.2	—

See footnotes at end of table.

ESTABLISHMENT DATA LABOR TURNOVER

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

1972 SIC Code	Industry	Accession rates						Separation rates					
		Total		New hires		Recalls		Total		Quits		Layoffs	
		July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P	July 1979	Aug. 1979 ^P
PAPER AND ALLIED PRODUCTS—Continued													
263	Paperboard mills	1.6	—	1.1	—	0.4	—	2.0	—	0.7	—	0.6	—
264	Misc. converted paper products	3.7	—	3.0	—	.6	—	3.3	—	1.9	—	.5	—
265	Paperboard containers and boxes	3.6	—	2.7	—	.6	—	3.6	—	1.7	—	.9	—
2651	Folding paperboard boxes	3.8	—	3.2	—	.5	—	2.7	—	1.5	—	.4	—
2653	Corrugated and solid fiber boxes	3.1	—	2.4	—	.5	—	3.4	—	1.7	—	.5	—
PRINTING AND PUBLISHING													
27	Printing and publishing	3.5	3.8	2.9	3.2	.4	0.5	3.3	4.6	2.1	3.3	.6	.6
271	Newspapers	3.6	—	3.3	—	.1	—	3.3	—	2.7	—	.1	—
272	Periodicals	2.4	—	2.3	—	.1	—	2.6	—	1.9	—	.3	—
273	Books	3.5	—	2.6	—	.8	—	3.6	—	1.7	—	1.4	—
274	Miscellaneous publishing	3.9	—	3.2	—	.6	—	3.6	—	2.4	—	.6	—
275	Commercial printing	3.3	—	2.5	—	.7	—	3.1	—	1.7	—	.8	—
2751	Commercial printing, letterpress	3.6	—	2.3	—	1.2	—	3.6	—	2.0	—	1.0	—
2752	Commercial printing, lithographic	3.2	—	2.7	—	.4	—	2.8	—	1.5	—	.7	—
278	Blankbooks and bookbinding	4.7	—	4.1	—	.6	—	5.2	—	3.1	—	1.1	—
CHEMICALS AND ALLIED PRODUCTS													
28	Chemicals and allied products	1.9	1.9	1.5	1.6	.2	.2	1.6	3.0	.8	1.9	.3	.4
281	Industrial inorganic chemicals	1.3	—	1.1	—	.1	—	1.1	—	.5	—	.2	—
2819	Industrial inorganic chemicals, nec	1.2	—	1.0	—	.1	—	1.1	—	.5	—	.2	—
282	Plastics materials and synthetics	1.1	—	.9	—	.1	—	1.1	—	.5	—	.2	—
2821	Plastics materials and resins	1.6	—	1.4	—	.1	—	1.2	—	.6	—	(¹)	—
2824	Organic fibers, noncellulosic	.4	—	.3	—	(¹)	—	.8	—	.3	—	.1	—
283	Drugs	1.7	—	1.3	—	.3	—	1.4	—	.7	—	.3	—
2834	Pharmaceutical preparations	1.7	—	1.3	—	.3	—	1.4	—	.7	—	.3	—
284	Soap, cleaners, and toilet goods	3.8	—	3.0	—	.6	—	2.4	—	1.4	—	.4	—
2841	Soap and other detergents	2.0	—	1.1	—	.8	—	1.2	—	.7	—	.1	—
2844	Toilet preparations	5.4	—	4.2	—	.7	—	2.8	—	1.6	—	.6	—
285	Paints and allied products	2.7	—	2.5	—	.1	—	2.3	—	1.5	—	.2	—
288	Industrial organic chemicals	1.4	—	1.2	—	(¹)	—	1.1	—	.5	—	.2	—
287	Agricultural chemicals	2.3	—	1.8	—	.4	—	2.9	—	.9	—	1.3	—
289	Miscellaneous chemical products	2.1	—	1.6	—	.3	—	2.2	—	1.1	—	.6	—
PETROLEUM AND COAL PRODUCTS													
29	Petroleum and coal products	2.6	2.0	2.3	1.8	.1	.1	1.8	3.1	.8	1.7	.4	.6
291	Petroleum refining	2.0	—	1.9	—	(¹)	—	1.2	—	.4	—	.3	—
295	Paving and roofing materials	5.1	—	4.0	—	.7	—	4.7	—	2.5	—	1.0	—
RUBBER AND MISC. PLASTICS PRODUCTS													
30	Rubber and misc. plastics products	5.2	5.4	4.0	4.4	.9	.7	5.5	7.5	2.9	4.4	1.3	1.7
301	Tires and inner tubes	1.4	—	.8	—	.1	—	2.8	—	.6	—	1.4	—
302	Rubber and plastics footwear	5.8	—	4.5	—	.7	—	9.6	—	4.5	—	3.2	—
303,4	Reclaimed rubber, and rubber and plastics hose and belting	2.8	—	1.8	—	.6	—	4.2	—	1.8	—	1.6	—
306	Fabricated rubber products, nec	4.2	—	3.0	—	.8	—	5.1	—	2.2	—	1.4	—
307	Miscellaneous plastics products	6.5	—	5.1	—	1.1	—	6.1	—	3.7	—	1.1	—
LEATHER AND LEATHER PRODUCTS													
31	Leather and leather products	7.7	11.4	4.6	6.7	2.6	4.4	11.3	10.7	4.2	6.8	5.9	2.6
311	Leather tanning and finishing	6.8	—	3.6	—	3.1	—	7.9	—	2.4	—	4.7	—
314	Footwear, except rubber	7.8	—	4.9	—	2.4	—	12.4	—	4.6	—	6.4	—
3143	Men's footwear, except athletic	7.1	—	5.1	—	1.6	—	8.9	—	4.6	—	3.2	—
3144	Women's footwear, except athletic	7.1	—	4.3	—	2.4	—	15.4	—	4.6	—	9.3	—
NONMANUFACTURING:													
MINING													
—	MINING	5.0	5.2	3.7	4.2	.7	.7	4.3	5.5	2.7	3.7	.7	.5
METAL MINING													
10	Metal mining	3.6	3.4	2.4	2.7	.5	.2	3.2	5.4	1.5	2.5	.5	1.7
101	Iron ores	3.4	—	.9	—	.7	—	4.6	—	.4	—	1.5	—
102	Copper ores	2.7	—	2.1	—	.2	—	1.4	—	.7	—	.1	—
BITUMINOUS COAL AND LIGNITE MINING													
12	Bituminous coal and lignite mining	1.5	1.6	.8	.9	.5	.5	1.5	2.4	.5	1.0	.6	.8
OIL AND GAS EXTRACTION													
13	Oil and gas extraction	7.4	8.0	5.6	6.6	.9	1.0	6.5	7.7	4.4	5.8	.8	.2
131, 2	Crude petroleum, natural gas, and natural gas liquids	2.6	—	2.0	—	.3	—	1.6	—	1.0	—	.1	—
138	Oil and gas field services	10.9	—	8.2	—	1.3	—	10.1	—	7.0	—	1.3	—
NONMETALLIC MINERALS, EXCEPT FUELS													
14	Nonmetallic minerals, except fuels	4.2	3.4	3.5	3.1	.4	.3	2.8	3.5	1.8	2.4	.4	.2
142	Crushed and broken stone	4.0	—	3.1	—	.6	—	2.7	—	2.0	—	.3	—
144	Sand and gravel	5.5	—	4.8	—	.5	—	3.6	—	2.0	—	.8	—
COMMUNICATION:													
481	Telephone communication	1.4	—	1.3	—	(¹)	—	1.0	—	.5	—	.1	—

¹ Less than 0.05.

^P preliminary.

ESTABLISHMENT DATA
SEASONALLY ADJUSTED LABOR TURNOVER

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

[Per 100 employees]

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total accessions												
1969	4.9	4.8	4.9	4.9	4.7	5.0	4.7	4.5	4.7	4.6	4.5	4.6
1970	4.4	4.4	4.0	4.0	4.1	4.1	4.1	3.9	3.9	3.8	3.7	3.8
1971	3.8	3.7	3.7	3.8	3.8	3.8	3.8	4.0	4.0	3.9	4.0	4.2
1972	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.5	4.5	4.6	4.7	4.9
1973	5.0	5.2	5.1	4.9	4.8	4.7	4.6	4.6	4.8	4.8	5.0	4.7
1974	4.7	4.6	4.5	4.6	4.5	4.3	4.3	4.1	4.0	3.8	3.3	3.1
1975	3.0	3.1	3.2	3.7	3.6	3.8	4.1	4.0	3.9	3.8	3.8	3.8
1976	4.2	4.1	4.2	4.0	4.0	3.8	3.9	3.8	3.8	3.7	3.8	3.9
1977	4.0	4.4	4.1	3.9	4.0	4.0	4.0	3.9	3.9	4.0	4.1	4.3
1978	4.1	3.9	4.0	4.1	4.0	4.0	4.0	4.0	4.1	4.3	4.4	4.5
1979	4.3	4.2	4.0	3.9	4.0	4.0	3.9	3.8 ^P				
New hires												
1969	3.7	3.8	3.9	3.8	3.7	3.9	3.7	3.5	3.7	3.6	3.5	3.5
1970	3.3	3.2	2.9	2.8	2.7	2.8	2.8	2.7	2.6	2.5	2.4	2.4
1971	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.6	2.5	2.7	2.9
1972	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.3	3.4	3.6	3.7	4.0
1973	4.0	4.2	4.1	4.0	4.0	3.8	3.7	3.7	3.8	3.9	4.1	3.8
1974	3.8	3.7	3.6	3.5	3.5	3.3	3.3	3.1	3.0	2.7	2.3	1.9
1975	1.6	1.6	1.5	1.7	1.8	1.9	2.3	2.3	2.4	2.3	2.4	2.5
1976	2.6	2.7	2.9	2.8	2.7	2.7	2.7	2.6	2.5	2.4	2.5	2.6
1977	2.7	2.8	2.9	2.9	3.0	2.8	2.8	2.8	2.8	2.9	2.9	3.2
1978	3.0	2.9	3.0	3.1	3.0	3.0	3.0	3.0	3.1	3.3	3.4	3.5
1979	3.3	3.3	3.1	3.0	3.0	3.0	2.8	2.7 ^P				
Total separations												
1969	4.6	4.9	4.9	4.8	4.8	5.0	4.8	4.9	4.9	5.0	4.9	4.9
1970	5.0	5.2	4.9	5.2	5.0	4.8	4.5	4.8	4.8	5.0	4.7	4.4
1971	4.3	4.1	4.0	4.1	4.2	4.1	4.2	4.6	4.3	4.1	4.1	4.1
1972	4.2	4.1	4.2	4.2	4.2	4.5	4.5	4.2	4.3	4.1	4.3	4.4
1973	4.6	4.7	4.8	4.6	4.6	4.7	4.9	4.6	4.5	4.7	4.8	4.8
1974	5.1	5.0	4.9	4.7	4.6	4.5	4.5	4.8	4.4	4.8	5.2	4.9
1975	5.2	5.1	4.6	4.6	4.6	4.3	4.0	3.9	3.9	3.8	3.8	3.5
1976	3.6	3.6	3.8	3.9	3.8	3.9	4.0	3.9	3.9	3.8	3.7	3.7
1977	3.9	4.1	3.7	3.7	3.8	3.7	4.0	3.8	3.9	3.8	3.8	3.9
1978	3.7	3.9	3.8	4.0	4.0	4.0	3.8	3.9	3.7	3.9	4.0	4.0
1979	4.1	4.0	3.9	3.9	4.0	4.1	4.0	4.4 ^P				
Quits												
1969	2.7	2.7	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6
1970	2.4	2.5	2.3	2.3	2.1	2.2	2.1	2.0	2.0	1.9	1.8	1.9
1971	1.8	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9
1972	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.5	2.6
1973	2.8	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.9	2.9	2.7
1974	2.7	2.8	2.7	2.6	2.6	2.5	2.5	2.4	2.2	2.0	1.8	1.7
1975	1.4	1.3	1.2	1.2	1.3	1.4	1.4	1.5	1.4	1.5	1.6	1.5
1976	1.6	1.7	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.6	1.6	1.7
1977	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	1.9	2.0
1978	1.9	2.0	2.0	2.1	2.1	2.1	2.0	2.1	2.1	2.2	2.2	2.2
1979	2.3	2.2	2.1	2.1	2.0	2.0	1.9	1.9 ^P				
Layoffs												
1969	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.2	1.3	1.3	1.4
1970	1.5	1.7	1.8	1.9	1.9	1.9	1.5	1.9	1.9	2.2	2.0	1.7
1971	1.7	1.5	1.5	1.5	1.6	1.5	1.5	2.0	1.7	1.5	1.4	1.3
1972	1.2	1.2	1.1	1.2	1.2	1.4	1.4	1.1	1.0	1.0	.9	.9
1973	.9	.8	.9	.8	.9	.9	1.2	1.0	.9	.8	1.0	1.1
1974	1.4	1.3	1.2	1.1	1.1	1.1	1.1	1.4	1.3	1.8	2.5	2.5
1975	2.9	3.0	2.7	2.6	2.5	2.2	1.7	1.6	1.7	1.5	1.5	1.3
1976	1.2	1.0	1.2	1.3	1.3	1.3	1.4	1.3	1.4	1.4	1.3	1.2
1977	1.3	1.5	1.1	1.1	1.1	1.1	1.3	1.2	1.1	1.1	1.0	1.0
1978	.9	1.0	1.0	1.0	1.0	1.0	.8	1.0	.8	.9	.9	.9
1979	.9	.9	.9	1.1	1.0	1.1	1.2	1.6 ^P				

p-preliminary.

NOTE: In accordance with usual practice, BLS has revised establishment survey data to reflect a new benchmark and updated seasonal adjustment factors. Because of these revisions, data beginning in 1974 may differ from data published earlier. See article in this issue for additional information.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	June 1979	July 1979 ^P	June 1979	July 1979 ^P	June 1979	July 1979 ^P	June 1979	July 1979 ^P	June 1979	July 1979 ^P	June 1979	July 1979 ^P
ALABAMA:												
Birmingham	3.1	3.2	2.3	1.7	0.5	1.2	2.4	2.8	1.1	1.1	0.4	1.0
Mobile	4.2	4.9	3.6	1.9	.4	2.9	2.5	4.2	1.3	1.1	.4	2.5
ALASKA	45.1	30.0	39.3	29.0	4.4	.7	6.8	19.3	4.2	10.1	1.2	7.5
ARIZONA	6.4	5.5	5.6	4.9	.6	.4	4.9	4.7	3.3	3.1	.4	.4
Phoenix	6.5	5.6	5.9	5.1	.5	.4	5.2	4.9	3.4	3.2	.4	.5
ARKANSAS	6.6	6.7	5.6	5.2	.7	1.1	7.2	6.7	4.5	4.5	1.6	1.0
Fort Smith	6.3	5.6	4.6	4.3	.9	.3	5.7	7.3	3.3	4.7	1.0	.9
Little Rock—North Little Rock	4.5	4.7	3.9	3.8	.4	.7	4.5	4.8	2.6	3.0	.4	.5
Pine Bluff	3.1	2.9	2.6	2.4	.4	.4	3.1	3.7	2.0	2.2	.2	.6
COLORADO	6.4	5.1	5.9	4.4	.3	.5	4.8	4.1	3.5	2.9	.2	.3
Denver—Boulder	5.7	4.3	5.3	4.0	.2	.2	4.6	3.9	3.3	2.7	.2	.2
CONNECTICUT	3.3	2.7	2.7	2.2	.3	.3	2.4	2.4	1.4	1.4	.2	.3
Hartford	3.7	2.8	3.3	2.3	.2	.3	2.1	2.2	1.4	1.3	.1	.3
DELAWARE	2.8	2.4	1.8	1.4	.3	.5	1.9	1.9	1.0	.8	.5	.6
Wilmington	2.4	2.2	1.5	1.2	.2	.5	1.6	1.7	.6	.7	.5	.6
FLORIDA	5.9	5.4	5.3	4.5	.4	.7	6.8	5.9	3.5	3.2	2.1	1.4
Fort Lauderdale—Hollywood	7.3	6.2	7.0	5.9	.2	.1	6.4	5.5	4.7	3.8	.7	.5
Jacksonville	5.5	4.5	4.9	3.8	.5	.6	11.6	3.7	2.5	2.3	7.9	.8
Miami	6.1	6.3	5.6	4.9	.5	1.4	5.8	6.3	3.9	3.4	.8	1.7
Orlando	4.5	5.2	3.9	4.7	.4	.2	5.0	6.7	3.1	2.4	1.0	3.1
Pensacola	2.2	2.0	2.1	1.8	(¹)	.1	1.9	2.9	1.4	1.0	.1	1.3
Tampa—St. Petersburg	6.6	6.5	6.1	5.7	.4	.7	7.3	6.0	4.4	3.9	1.7	.7
West Palm Beach—Boca Raton	5.8	8.2	5.4	6.6	.3	1.5	5.4	8.0	2.7	4.6	1.5	(¹)
GEORGIA	4.5	4.1	3.7	3.4	.4	.5	3.9	3.9	2.6	2.7	.4	.4
Atlanta ²	4.2	4.0	3.6	2.8	.3	.7	3.8	3.4	2.2	1.8	.7	.8
HAWAII ³	5.2	2.6	2.4	1.8	2.6	.7	3.9	3.3	1.1	1.5	2.2	1.3
IDAHO ⁴	7.4	4.6	5.4	4.2	1.7	.2	5.3	4.3	3.0	2.6	1.1	.7
ILLINOIS:												
Chicago SMSA	4.3	3.1	3.7	2.6	.3	.3	3.8	3.3	2.0	1.8	.5	.4
INDIANA ⁵	3.2	2.8	2.2	1.7	.6	.7	3.6	3.9	1.3	1.3	1.3	1.8
Indianapolis ⁶	3.2	2.6	2.4	1.9	.4	.2	3.2	2.9	1.4	1.1	.7	.8
IOWA	4.3	3.5	3.4	2.4	.5	.7	4.7	3.1	1.9	1.7	2.1	.7
Cedar Rapids	4.3	2.2	3.1	1.4	.9	.6	2.6	2.2	1.2	1.1	.9	.5
Des Moines	4.9	3.1	3.1	2.1	.5	(¹)	5.5	4.1	2.0	2.5	2.0	.1
KANSAS	6.2	5.3	5.6	4.7	.4	.4	5.5	7.1	3.9	3.4	.5	2.6
Topeka	4.6	3.9	4.6	3.1	(¹)	.8	7.2	6.7	3.5	2.5	2.1	3.7
Wichita	6.5	5.4	5.7	4.7	.6	.4	5.5	4.5	3.9	3.5	.3	(¹)
KENTUCKY	3.2	3.5	2.2	2.4	.5	.6	3.1	3.8	1.4	1.7	.8	1.1
Louisville	3.1	2.3	1.8	1.4	.4	.4	2.7	1.6	.9	.8	.4	.2
LOUISIANA												
New Orleans	5.7	4.0	5.1	3.5	.4	.4	5.8	5.2	2.9	3.4	1.5	.5
MAINE	7.5	5.1	5.2	4.0	2.0	.9	5.4	6.7	3.2	2.6	1.3	3.2
Portland	5.8	4.1	5.2	3.5	.5	.3	4.4	4.1	2.7	2.6	.8	.6
MARYLAND	3.4	3.7	2.4	2.5	1.0	1.0	2.9	3.4	1.2	1.3	.9	1.5
Baltimore	3.4	3.1	2.2	2.1	1.0	.8	2.6	3.4	.9	1.0	.9	1.7
MASSACHUSETTS	4.4	(*)	3.6	(*)	.5	(*)	3.9	(*)	2.0	(*)	1.1	(*)
Boston	4.2	(*)	3.5	(*)	.4	(*)	3.4	(*)	1.7	(*)	.9	(*)
MICHIGAN	2.8	2.5	2.0	1.4	.5	.7	2.7	6.6	1.0	1.0	1.0	4.5
Detroit	2.5	2.0	1.8	1.1	.4	.5	2.5	8.2	.9	.9	.8	6.5
Flint	1.9	1.3	1.6	1.1	(¹)	(¹)	2.2	3.2	.5	.4	.9	1.9
Grand Rapids	4.1	3.1	3.4	2.5	.5	.3	3.4	4.1	1.5	1.4	1.1	1.6
Lansing—East Lansing	4.1	.6	2.7	.5	.4	(¹)	2.2	1.1	.9	.1	.3	.8

See footnotes at end of table.

**ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER**

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

(Per 100 employees)

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	June 1979	July 1979 ^P	June 1979	July 1979 ^P	June 1979	July 1979 ^P	June 1979	July 1979 ^P	June 1979	July 1979 ^P	June 1979	July 1979 ^P
MINNESOTA	6.0	4.2	5.2	3.6	0.5	0.4	4.2	3.4	2.6	2.3	0.8	0.5
Minneapolis—St. Paul	5.2	3.8	4.8	3.4	.2	.2	3.6	2.9	2.2	2.1	.6	.2
MISSISSIPPI:												
Jackson	4.8	6.9	4.3	3.6	.4	3.1	4.0	5.9	2.9	3.8	.2	.8
MISSOURI	3.9	3.2	3.2	2.5	.5	.5	3.3	3.2	2.0	1.8	.5	.7
Kansas City	4.0	3.5	3.5	3.0	.3	.3	3.5	6.7	2.0	2.0	.5	3.8
St. Louis	3.3	2.5	2.6	1.8	.6	.6	2.5	2.5	1.2	1.1	.5	.7
MONTANA	5.0	3.0	3.9	2.6	.6	.2	1.8	2.0	1.3	1.7	.1	.2
NEBRASKA	4.6	3.9	4.2	3.5	.2	.2	4.2	3.7	3.1	2.7	.3	.3
NEVADA	10.7	8.0	10.2	7.5	.2	.5	8.5	7.3	6.2	5.1	.7	.6
NEW HAMPSHIRE	6.4	6.2	5.6	4.7	.5	1.3	6.3	7.8	4.2	3.5	1.2	3.5
NEW JERSEY:												
Camden ⁷	5.1	3.8	3.8	2.0	.8	1.5	4.0	4.7	1.1	1.1	1.5	2.6
Hackensack	4.5	4.8	3.6	3.3	.7	1.4	3.7	7.3	1.9	2.2	.6	4.3
Jersey City	3.6	4.5	2.7	2.0	.8	2.0	3.0	3.7	1.1	1.2	1.3	1.7
Newark	3.7	3.4	3.1	2.2	.3	.9	4.3	5.2	1.3	1.2	2.2	2.9
New Brunswick—Perth Amboy—Sayreville	4.0	4.7	3.2	2.7	.3	1.7	3.0	5.0	1.7	1.5	.4	2.4
Paterson—Clifton—Passaic	4.7	6.0	4.1	2.5	.5	1.9	6.9	8.3	1.9	1.5	2.3	5.8
Trenton	4.4	3.8	3.6	1.8	.6	1.6	4.2	6.3	1.6	1.4	1.7	3.9
NEW YORK	4.5	4.5	3.2	2.6	1.1	1.7	3.8	5.2	1.4	1.3	1.6	3.0
Albany—Schenectady—Troy	3.6	3.0	2.3	1.7	.9	.8	3.1	3.1	1.1	1.0	1.1	1.0
Binghamton	3.3	2.5	2.7	2.0	.4	.5	2.9	5.0	1.5	1.3	.2	2.6
Buffalo	3.1	2.8	1.9	2.1	.9	.6	2.7	3.8	.8	.7	1.2	2.3
Elmira	4.1	2.8	2.9	2.3	.9	.3	2.8	3.5	1.2	.7	.6	1.4
Monroe County ⁸	4.5	2.1	4.1	1.6	.2	.3	1.9	2.7	.9	.8	.5	1.3
Nassau—Suffolk ⁹	5.3	5.1	4.2	3.6	.9	1.4	4.6	5.1	2.3	2.3	1.4	1.8
New York and Nassau—Suffolk	5.0	5.3	3.4	3.0	1.4	2.2	4.2	6.6	1.5	1.6	1.9	4.0
New York SMSA ⁹	4.9	5.4	3.2	2.8	1.6	2.4	4.1	7.0	1.3	1.4	2.0	4.6
New York City ¹⁰	5.2	5.8	3.3	3.0	1.7	2.7	4.4	7.8	1.3	1.4	2.2	5.3
Rochester	4.7	3.4	4.0	2.2	.5	1.0	2.1	3.0	1.0	.9	.5	1.5
Syracuse	3.9	2.8	2.3	1.7	1.3	.9	2.4	3.0	1.0	1.0	.8	1.3
Utica—Rome	3.6	2.9	2.7	1.8	.6	1.0	2.2	5.0	1.0	1.2	.6	3.3
Westchester County ¹⁰	3.1	3.0	2.4	2.0	.4	.8	2.7	2.5	1.3	1.2	.7	.6
NORTH CAROLINA	4.8	4.4	4.2	3.7	.3	.3	4.3	4.2	3.0	3.0	.3	.3
Charlotte—Gastonia	5.3	5.6	4.8	5.0	.3	.3	5.0	5.3	3.7	4.3	.3	.1
Greensboro—Winston-Salem—High Point	4.8	3.9	4.0	3.3	.2	.2	3.7	3.4	2.6	2.5	.3	.2
NORTH DAKOTA	8.3	5.4	6.8	4.2	1.2	.8	7.1	5.9	5.3	4.1	1.3	.6
Fargo—Moorhead	7.3	5.9	4.1	4.7	2.3	.9	3.9	3.2	2.7	1.7	.1	.4
OHIO	3.5	2.5	2.5	1.5	(*)	(*)	2.7	3.4	1.1	1.0	.8	1.6
Akron	2.7	2.0	2.1	1.5	(*)	(*)	2.3	3.7	.9	.9	.7	1.9
Canton	4.4	2.4	2.9	1.6	(*)	(*)	2.5	2.2	.9	.8	.3	.3
Cincinnati	3.4	2.9	2.4	2.0	(*)	(*)	2.7	3.0	1.0	1.0	.6	1.0
Cleveland	3.5	2.8	2.7	1.8	(*)	(*)	3.1	3.9	1.3	1.1	.8	1.6
Columbus	2.8	2.4	2.0	1.6	(*)	(*)	2.5	2.3	1.4	1.0	.5	.6
Dayton	3.1	2.3	2.4	1.6	(*)	(*)	3.0	3.7	1.1	1.1	.9	1.4
Toledo	2.9	2.8	2.1	1.2	(*)	(*)	2.9	3.3	.8	.7	1.2	1.4
Youngstown—Warren	3.2	2.2	1.7	1.0	(*)	(*)	2.1	1.9	.6	.5	.5	.5
OKLAHOMA	6.6	6.4	6.0	5.8	.4	.4	6.3	5.9	4.6	4.4	.5	.4
Oklahoma City	7.2	7.0	6.2	6.4	.9	.5	6.8	5.8	4.9	4.4	.4	.3
Tulsa ¹¹	5.6	5.4	5.2	4.9	.2	.4	6.0	5.4	4.0	3.6	.5	.4
OREGON ⁵	6.3	4.5	5.1	3.6	.9	.7	3.9	3.9	2.4	2.4	.6	.6
Portland ⁵	6.4	4.9	5.1	3.9	.8	.8	4.6	4.1	2.6	2.5	.9	.6
PENNSYLVANIA	3.6	3.2	2.6	1.8	.7	1.2	2.8	3.3	1.2	1.1	1.0	1.5
Allentown—Bethlehem—Easton	3.1	3.4	2.2	1.7	.7	1.5	2.5	3.2	1.1	.8	.8	1.9
Altoona	2.6	1.5	1.3	1.0	1.2	.4	1.2	1.4	.8	.7	.1	.2
Erie	3.7	2.5	2.3	1.5	.9	.7	2.2	3.0	1.0	1.2	.4	.9
Harrisburg	4.2	5.3	3.6	3.3	.3	1.7	2.4	2.5	1.4	1.4	.2	.6
Johnstown	2.4	2.8	1.0	1.2	1.3	1.5	2.5	2.8	.7	.8	.7	.9
Lancaster	4.6	3.0	4.1	2.3	.3	.6	3.4	3.2	2.1	1.9	.7	.7

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA LABOR TURNOVER

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

[Per 100 employees]

State and area	Accession rates						Separation rates					
	Total		New hires		Recalls		Total		Quits		Layoffs	
	June 1979	July 1979 ^p	June 1979	July 1979 ^p	June 1979	July 1979 ^p	June 1979	July 1979 ^p	June 1979	July 1979 ^p	June 1979	July 1979 ^p
PENNSYLVANIA—Continued												
Northeast Pennsylvania	3.9	4.5	2.3	1.4	1.4	2.8	3.6	5.7	1.3	1.1	1.9	4.0
Philadelphia SMSA	3.7	3.1	2.7	2.1	.7	.8	3.1	3.0	1.2	1.1	1.0	1.1
Pittsburgh	2.8	2.6	2.1	1.6	.4	.7	2.0	2.6	.6	.6	.7	1.1
Reading	3.4	4.1	2.5	2.0	.8	2.1	3.1	4.7	1.5	1.4	1.0	2.7
Scranton ¹²	3.8	5.0	1.9	1.2	1.8	3.6	4.3	4.4	1.2	.7	2.7	3.3
Wilkes-Barre—Hazleton ¹²	3.2	3.9	1.9	1.3	1.0	2.0	2.4	5.8	1.2	1.1	.9	4.0
Williamsport	2.3	1.4	1.4	.5	.6	.8	1.9	3.8	.6	.7	.9	2.8
York	4.1	4.1	3.2	2.4	.7	1.6	3.7	3.7	2.0	1.6	1.2	1.4
RHODE ISLAND												
Providence—Warwick—Pawtucket	5.8	8.0	4.8	3.2	.6	4.5	5.5	8.5	3.2	2.6	1.3	5.2
.....	5.7	8.2	4.8	3.3	.6	4.8	5.3	8.5	3.1	2.6	1.1	5.2
SOUTH CAROLINA												
Charleston—North Charleston	4.4	4.7	3.8	3.4	.2	.8	4.1	4.7	2.6	2.7	.5	1.0
Columbia	3.3	4.4	3.0	3.9	.3	.4	5.2	9.4	2.7	1.9	1.3	6.2
Greenville—Spartanburg	4.6	3.6	4.0	3.1	.2	.3	4.0	3.3	2.7	2.3	.3	.2
.....	4.9	4.4	4.3	3.7	.3	.3	4.8	4.6	3.0	3.1	.5	.5
SOUTH DAKOTA												
Sioux Falls	6.3	5.3	5.2	4.6	.3	.2	4.6	3.8	3.4	2.9	.3	.3
.....	4.3	5.2	4.0	5.1	.3	(¹)	3.1	3.9	2.5	3.0	.2	.3
TENNESSEE:												
Memphis	3.1	2.8	2.6	2.2	.3	.5	3.0	3.1	1.6	1.4	.5	.7
TEXAS:												
Dallas—Fort Worth	6.4	6.0	6.0	5.6	.2	.2	5.7	5.5	4.2	4.1	.3	.3
Houston	4.9	4.4	4.8	4.1	.1	.2	4.5	4.1	3.2	2.9	.2	.2
San Antonio	6.3	5.2	5.8	4.9	.3	.2	5.7	4.8	3.9	3.7	.7	.1
UTAH⁴												
Salt Lake City—Ogden ⁴	6.3	5.2	5.4	4.7	.7	.2	5.6	4.9	3.8	3.3	.9	.4
.....	5.9	4.8	5.5	4.5	.2	.1	5.0	4.3	3.7	3.1	.5	.2
VERMONT												
Burlington	5.1	4.8	4.2	2.7	.7	1.8	3.7	4.3	2.2	1.8	.7	1.8
Springfield	4.3	2.7	4.0	2.5	.1	(¹)	2.4	2.4	1.1	1.1	.7	.8
.....	3.7	2.6	3.1	2.0	.6	.5	2.4	2.4	1.6	1.0	.5	.9
VIRGINIA												
Richmond	4.0	3.4	3.0	2.6	.7	.6	3.3	3.0	1.8	1.8	.7	.4
.....	2.4	1.6	1.8	1.2	.2	.4	1.8	1.6	.8	.8	.1	.2
WASHINGTON:												
Seattle—Everett ¹³	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
WISCONSIN												
Milwaukee	4.5	5.0	3.5	3.2	.6	1.4	2.9	3.7	1.4	1.5	.6	1.3
.....	3.6	3.9	2.7	1.9	.3	1.5	2.8	4.3	1.2	1.3	.5	1.6
WYOMING												
.....	10.6	7.0	9.8	6.4	.8	.5	8.1	8.2	5.9	6.1	.7	.1

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

¹⁰ Excludes new-hire rate for transportation equipment.
¹¹ Excludes canning and preserving.
¹² Subarea of Northeast Pennsylvania Standard Metropolitan Statistical Area.
¹³ Excludes canning and preserving, printing and publishing.
^p preliminary.
^{*} Not available.

SOURCE: Cooperating State agencies listed on inside back cover.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1978	JUL. 1979	AUG. 1979P	AUG. 1978	JUL. 1979	AUG. 1979P	AUG. 1978	JUL. 1979	AUG. 1979P
ALABAMA	1,618.5	1,659.7	1,636.1	100.6	133.5	115.7	6.2	8.0	7.1
Birmingham	376.2	385.1	381.5	19.6	24.1	22.5	5.2	6.3	5.9
Huntsville	136.5	141.9	139.4	9.9	11.0	10.1	7.3	7.7	7.3
Mobile	180.9	186.3	181.9	12.5	17.0	15.9	6.9	9.1	8.7
Montgomery	117.1	122.3	121.4	6.9	7.6	6.9	5.9	6.3	5.7
Tuscaloosa	51.4	51.0	51.2	3.5	3.1	3.0	6.7	6.2	5.9
ALASKA	192.6	195.0	194.8	18.2	15.0	13.2	9.5	7.7	6.8
ARIZONA	972.4	1,030.9	1,017.6	57.3	54.4	49.1	5.9	5.3	4.8
Phoenix	588.7	624.2	616.8	29.9	27.6	25.0	5.1	4.4	4.0
Tucson	175.3	183.4	181.6	9.4	7.6	6.7	5.4	4.2	3.7
ARKANSAS	939.5	1,004.5	1,002.3	52.1	58.1	60.8	5.5	5.8	6.1
Fayetteville-Springdale	71.2	76.8	77.0	2.9	3.1	3.1	4.1	4.0	4.0
Fort Smith ¹	82.9	86.2	84.8	5.2	6.0	6.6	6.3	6.9	7.8
Little Rock-North Little Rock	177.3	192.1	192.4	7.8	7.6	8.5	4.4	3.9	4.4
Pine Bluff	37.0	38.7	38.6	2.4	2.2	2.3	6.4	5.7	6.0
CALIFORNIA ²	10,761.7	11,076.2	11,119.3	749.6	690.7	705.5	7.0	6.2	6.3
Anaheim-Santa Ana-Garden Grove	1,019.2	1,074.5	1,084.8	62.1	43.9	48.6	6.1	4.1	4.5
Bakersfield	178.3	185.7	183.5	15.2	13.3	14.1	8.5	7.1	7.7
Fresno	268.8	269.2	284.3	20.6	16.9	19.4	7.7	6.3	6.8
Los Angeles-Long Beach ²	3,438.0	3,525.0	3,478.0	193.0	223.0	210.0	5.6	6.3	6.0
Modesto	136.5	139.1	143.7	11.2	16.0	11.3	8.2	11.5	7.9
Oxnard-Simi Valley-Ventura	219.4	219.6	219.5	24.7	16.2	18.2	11.3	7.4	8.3
Riverside-San Bernardino-Ontario	552.4	575.6	573.7	48.5	39.2	43.9	8.8	6.8	7.7
Sacramento	449.9	470.6	478.9	36.4	32.7	33.5	8.1	7.0	7.0
Salinas-Seaside-Monterey	129.7	132.3	132.5	9.7	7.6	8.9	7.5	5.8	6.7
San Diego	700.4	729.2	735.5	49.4	43.2	44.9	7.1	5.9	6.1
San Francisco-Oakland	1,591.6	1,630.1	1,642.6	113.0	86.3	98.6	7.1	5.3	6.0
San Jose	676.9	705.8	716.1	40.1	35.7	35.0	5.9	5.1	4.9
Santa Barbara-Santa Maria-Lompoc	140.1	142.0	141.7	11.0	8.4	9.6	7.9	5.9	6.8
Santa Rosa	121.5	124.5	127.2	9.2	7.7	8.2	7.6	6.2	6.4
Stockton	165.1	162.3	171.1	14.4	14.4	14.0	8.7	8.9	8.2
Vallejo-Fairfield-Napa	121.9	125.2	125.8	8.1	7.8	8.4	6.7	6.2	6.6
COLORADO	1,306.4	1,386.2	1,386.6	65.7	66.3	60.5	5.0	4.8	4.4
Denver-Boulder	759.0	806.9	811.0	36.9	36.4	33.1	4.9	4.5	4.1
CONNECTICUT	1,525.4	1,608.6	1,581.9	79.1	86.8	75.8	5.2	5.4	4.8
Bridgeport	184.7	192.7	191.5	9.8	11.0	9.4	5.3	5.7	4.9
Hartford	367.5	384.2	380.1	18.0	17.2	16.6	4.9	4.5	4.4
New Britain	70.8	74.1	72.3	4.4	4.0	3.4	6.2	5.4	4.7
New Haven-West Haven	196.9	210.8	205.9	9.7	11.1	10.7	4.9	5.3	5.2
Stamford	119.0	124.8	122.7	4.6	5.4	4.4	3.8	4.3	3.6
Waterbury	108.8	113.2	110.8	6.4	7.9	5.7	5.9	7.0	5.1
DELAWARE	280.2	277.4	276.1	25.5	22.1	22.5	9.1	7.9	8.2
Wilmington ¹	239.6	241.9	239.6	22.3	18.6	19.3	9.3	7.7	8.1
DISTRICT OF COLUMBIA	337.2	327.3	321.7	28.5	27.4	23.8	8.5	8.4	7.4
Washington SMSA ¹	1,588.2	1,621.8	1,605.5	75.4	77.4	73.4	4.7	4.8	4.6
FLORIDA ²	3,682.2	3,893.0	3,833.6	242.6	256.1	232.8	6.6	6.6	6.1
Fort Lauderdale-Hollywood	373.8	395.5	390.7	22.5	21.9	19.8	6.0	5.5	5.1
Jacksonville	302.2	313.6	313.5	16.6	18.6	18.1	5.5	5.9	5.8
Miami	696.7	725.9	718.0	45.9	44.5	39.8	6.6	6.1	5.5
Orlando	296.7	317.3	308.9	19.2	21.3	18.3	6.5	6.7	5.9
Pensacola	112.4	116.2	114.8	5.6	7.0	6.1	5.0	6.0	5.3
Tampa-St. Petersburg	558.8	589.7	579.4	32.8	33.3	30.6	5.9	5.7	5.3
West Palm Beach-Boca Raton	200.2	220.7	217.7	15.6	17.7	14.9	7.8	8.0	6.9
GEORGIA	2,353.3	2,360.9	2,366.1	146.8	132.4	127.8	6.2	5.6	5.4
Albany	48.6	51.5	50.9	3.6	3.3	3.1	7.3	6.5	6.1
Atlanta	914.1	915.9	910.6	59.5	44.5	49.4	6.5	4.9	5.4
Augusta	126.6	128.2	127.4	7.9	7.6	7.1	6.3	5.9	5.6
Columbus ¹	86.1	89.4	89.1	6.1	6.3	5.9	7.0	7.1	6.6
Macon	102.6	102.3	101.4	6.5	6.3	5.8	6.3	6.2	5.7
Savannah	92.0	90.5	91.0	5.7	5.5	5.1	6.2	6.0	5.6

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
	AUG. 1978	JUL. 1979	AUG. 1979P	Number			Percent of labor force		
				AUG. 1978	JUL. 1979	AUG. 1979P	AUG. 1978	JUL. 1979	AUG. 1979P
HAWAII	404.3	404.3	403.0	31.6	25.1	23.8	7.8	6.2	5.9
Honolulu	316.9	317.0	315.7	24.0	19.1	18.3	7.6	6.0	5.8
IDaho	425.2	425.9	425.3	23.5	21.4	22.3	5.5	5.0	5.2
Boise City	89.0	89.0	88.6	2.7	3.6	3.4	3.1	4.1	3.8
ILLINOIS²	5,418.0	5,479.8	5,414.8	324.7	277.7	251.6	6.0	5.1	4.6
Bloomington—Normal	58.0	58.5	58.0	2.0	1.9	1.5	3.4	3.2	2.7
Champaign—Urbana—Rantoul	75.8	80.0	77.6	3.7	3.3	2.9	4.9	4.1	3.7
Chicago	3,467.8	3,513.5	3,481.5	203.5	169.8	152.8	5.9	4.8	4.4
Davenport—Rock Island—Moline ¹	180.3	187.7	184.4	9.1	7.4	6.5	5.0	3.9	3.5
Decatur	60.1	60.2	59.4	5.3	3.5	3.4	8.8	5.9	5.6
Peoria	176.9	180.1	177.7	8.2	7.7	6.8	4.6	4.3	3.8
Rockford	138.1	141.0	139.4	7.0	6.8	6.3	5.1	4.8	4.5
Springfield	103.0	97.8	101.0	6.1	5.1	4.6	6.0	5.2	4.5
INDIANA	2,602.1	2,653.3	2,617.3	136.0	171.4	172.7	5.2	6.5	6.6
Anderson	60.0	60.5	59.9	3.5	5.2	5.7	5.9	8.6	9.5
Evansville ¹	143.5	143.2	141.4	8.1	8.1	7.8	5.6	5.6	5.5
Fort Wayne	187.1	195.9	192.9	8.2	12.0	11.3	4.4	6.1	5.9
Gary—Hammond—East Chicago	293.3	292.7	290.2	16.1	18.1	19.3	5.5	6.2	6.6
Indianapolis	585.1	599.1	590.4	28.9	32.8	36.0	4.9	5.5	6.1
Lafayette—West Lafayette	59.0	61.4	59.7	2.1	3.2	2.8	3.5	5.1	4.7
Muncie	56.0	56.6	55.7	4.2	4.1	4.4	7.5	7.3	7.9
South Bend	140.4	144.5	141.0	7.6	9.7	8.7	5.4	6.7	6.2
Terre Haute	81.1	82.2	80.9	4.1	4.9	4.7	5.1	6.0	5.8
IOWA	1,427.6	1,472.3	1,426.0	52.3	51.1	46.4	3.7	3.5	3.3
Cedar Rapids	84.0	86.9	85.7	2.4	2.7	2.5	2.8	3.1	2.9
Des Moines	178.8	182.4	178.9	7.4	6.7	6.2	4.1	3.7	3.5
Dubuque	43.9	46.1	45.2	2.2	2.1	2.1	5.1	4.6	4.7
Sioux City ¹	56.2	56.7	55.2	3.5	3.5	3.3	6.3	6.2	5.9
Waterloo—Cedar Falls	64.8	69.5	68.0	2.9	2.7	2.7	4.5	3.9	3.9
KANSAS	1,169.4	1,209.8	1,191.2	34.0	47.1	42.5	2.9	3.9	3.6
Topeka	96.2	98.3	96.9	3.3	4.8	4.4	3.4	4.9	4.5
Wichita	218.8	231.8	229.6	6.7	9.0	8.2	3.1	3.9	3.6
KENTUCKY	1,593.0	1,558.1	1,583.7	84.7	87.6	89.0	5.3	5.6	5.6
Lexington—Fayette	162.9	162.1	164.6	5.6	6.4	5.7	3.4	4.0	3.4
Louisville ¹	421.1	418.5	426.8	23.7	22.0	29.1	5.6	5.3	6.8
Owensboro	38.3	37.9	38.6	2.0	2.1	2.1	5.3	5.5	5.5
LOUISIANA	1,639.6	1,673.0	1,663.2	115.8	113.4	107.5	7.1	6.8	6.5
Alexandria	67.3	68.8	67.8	5.7	5.8	5.4	8.4	8.5	8.0
Baton Rouge	202.1	201.5	201.3	13.3	13.6	13.1	6.6	6.7	6.5
Lafayette	65.3	69.5	69.3	2.9	3.1	3.2	4.5	4.5	4.6
Lake Charles	66.8	67.2	66.2	5.4	4.7	4.4	8.1	7.0	6.7
Monroe	52.9	53.6	53.4	4.1	3.7	3.8	7.7	6.9	7.0
New Orleans	464.5	469.9	465.3	33.1	31.1	29.4	7.1	6.6	6.3
Shreveport	150.6	155.0	153.7	10.0	9.3	8.8	6.6	6.0	5.7
MAINE	496.6	504.4	499.5	26.6	43.4	29.8	5.4	8.6	6.0
Lewiston—Auburn	36.0	37.7	36.9	1.7	4.8	2.1	4.6	12.6	5.7
Portland	85.6	84.9	83.7	3.7	5.1	3.9	4.3	6.1	4.7
MARYLAND	2,070.1	2,142.8	2,122.2	110.6	125.6	130.4	5.3	5.9	6.1
Baltimore	1,047.7	1,074.5	1,063.9	63.1	69.1	78.0	6.0	6.4	7.3
MASSACHUSETTS²	2,898.3	2,948.3	2,936.0	194.7	146.2	137.6	6.7	5.0	4.7
Boston	1,391.4	1,402.8	1,392.1	93.0	66.5	64.5	6.7	4.7	4.6
Brockton	81.8	80.8	81.7	5.8	4.6	4.4	7.1	5.7	5.3
Fall River ¹	82.8	81.3	81.0	5.3	5.1	4.0	6.4	6.3	4.9
Lawrence—Haverhill ¹	142.3	141.8	141.1	10.5	9.2	7.8	7.3	6.5	5.6
Lowell	114.9	122.5	123.7	8.7	6.3	6.1	7.6	5.1	4.9
New Bedford	84.0	87.7	86.8	7.3	5.9	4.8	8.7	6.7	5.6
Springfield—Chicopee—Holyoke	276.8	290.1	291.4	16.7	11.6	11.7	6.0	4.0	4.0
Worcester	197.1	204.8	205.4	10.8	8.7	8.4	5.5	4.2	4.1
MICHIGAN²	4,211.0	4,403.6	4,319.1	338.1	338.7	325.0	8.0	7.7	7.5
Ann Arbor	131.0	143.0	142.0	8.2	7.7	8.5	6.2	5.4	6.0

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
	AUG. 1978	JUL. 1979	AUG. 1979P	Number			Percent of labor force		
				AUG. 1978	JUL. 1979	AUG. 1979P	AUG. 1978	JUL. 1979	AUG. 1979P
MICHIGAN—Continued									
Battle Creek	82.5	83.7	82.9	5.6	5.0	4.7	6.8	6.0	5.7
Bay City	54.0	53.7	53.6	3.5	3.4	3.8	6.5	6.3	7.1
Detroit	2,008.9	2,086.2	2,053.3	164.3	164.9	161.0	8.2	7.9	7.8
Flint	223.1	235.6	227.0	25.3	24.3	28.4	11.3	10.3	12.5
Grand Rapids	287.9	304.8	301.3	14.9	17.0	13.8	5.2	5.6	4.6
Jackson	65.5	70.8	70.1	3.6	4.9	4.5	5.5	6.9	6.5
Kalamazoo—Portage	129.6	132.7	131.2	8.0	7.2	6.2	6.1	5.5	4.7
Lansing—East Lansing	223.2	241.6	232.4	23.8	18.9	22.3	10.7	7.8	9.6
Muskegon—Norton Shores—Muskegon Heights	77.5	79.6	78.4	6.4	6.7	5.4	8.3	8.5	6.9
Saginaw	104.0	106.8	105.9	6.4	6.8	8.5	6.1	6.4	8.0
MINNESOTA									
Duluth—Superior ¹	119.9	120.5	118.9	5.2	6.6	6.0	4.4	5.4	5.0
Minneapolis—St. Paul	1,057.8	1,083.7	1,073.4	31.8	33.2	32.7	3.0	3.1	3.1
MISSISSIPPI									
Jackson	983.5	1,003.7	985.1	74.1	57.7	52.8	7.5	5.7	5.4
.....	144.2	146.9	146.6	7.7	5.4	5.0	5.3	3.6	3.4
MISSOURI									
Kansas City ¹	690.2	708.1	700.8	30.9	32.6	30.9	4.5	4.6	4.4
St. Joseph	44.4	44.7	44.1	2.1	2.0	2.1	4.8	4.5	4.7
St. Louis ¹	1,094.6	1,120.0	1,112.8	71.1	55.8	63.4	6.5	5.0	5.7
Springfield	100.7	103.1	102.9	4.1	3.6	3.9	4.1	3.5	3.8
MONTANA									
Billings	393.6	398.9	396.8	20.2	17.1	16.7	5.1	4.3	4.2
.....	55.0	54.8	55.1	2.3	1.7	1.7	4.1	3.2	3.2
Great Falls	37.0	36.0	36.0	2.3	2.1	2.0	6.2	5.8	5.7
NEBRASKA									
Lincoln	788.6	799.8	783.9	19.1	23.6	22.5	2.4	3.0	2.9
.....	109.6	107.6	108.1	2.4	3.1	2.8	2.2	2.9	2.6
Omaha ¹	279.8	275.5	272.2	9.8	11.3	11.4	3.5	4.1	4.2
NEVADA									
Las Vegas	342.6	353.6	354.1	13.0	19.0	17.2	3.8	5.4	4.9
.....	181.6	187.8	188.2	8.3	11.9	10.6	4.6	6.3	5.6
Reno	101.3	104.2	104.1	1.9	3.6	3.3	1.8	3.4	3.2
NEW HAMPSHIRE									
Manchester	439.0	465.0	462.9	13.0	17.3	12.1	3.0	3.7	2.6
.....	79.5	85.0	84.2	2.7	3.7	2.1	3.4	4.4	2.5
Nashua	58.0	62.0	61.6	1.6	2.3	1.5	2.8	3.7	2.4
NEW JERSEY									
Atlantic City	3,494.6	3,610.2	3,595.6	235.8	286.9	259.0	6.7	7.9	7.2
.....	95.2	104.7	104.6	6.8	9.8	8.5	7.2	9.4	8.1
Jersey City	257.9	256.6	250.6	26.2	28.5	24.1	10.1	11.2	9.6
Long Branch—Asbury Park	231.7	234.8	232.6	15.6	18.2	16.6	6.7	7.8	7.1
Newark	966.5	981.1	968.7	63.3	82.2	70.6	6.6	8.4	7.3
New Brunswick—Perth Amboy—Sayreville	318.8	326.8	327.4	21.0	22.8	22.5	6.6	7.0	6.9
Paterson—Clifton—Passaic	215.7	220.1	219.3	17.1	21.0	21.4	7.9	9.5	9.8
Trenton	157.1	164.4	160.9	8.0	12.6	10.2	5.1	7.6	6.3
Vineland—Millville—Bridgeton	63.3	62.7	62.8	5.3	6.0	5.4	8.3	9.6	8.6
NEW MEXICO									
Albuquerque	535.7	541.9	540.8	29.2	33.5	32.7	5.4	6.2	6.1
.....	197.5	198.9	198.5	11.0	12.1	11.8	5.6	6.1	6.0
NEW YORK²									
Albany—Schenectady—Troy	7,974.3	8,214.1	8,122.9	580.2	610.5	594.9	7.3	7.4	7.3
.....	377.5	382.4	381.8	21.1	19.5	20.0	5.6	5.1	5.2
Binghamton ¹	139.4	146.2	144.3	8.1	8.8	8.3	5.8	6.0	5.7
Buffalo	581.0	593.5	589.8	47.1	39.2	47.7	8.1	6.6	8.1
Elmira	40.5	41.8	41.6	2.7	2.4	2.8	6.7	5.7	6.6
Nassau—Suffolk	1,277.8	1,324.6	1,307.5	89.4	79.0	81.8	7.0	6.0	6.3
New York	3,637.0	3,734.8	3,676.7	291.6	347.2	312.8	8.0	9.3	8.5
New York City ²	3,034.0	3,118.0	3,066.0	254.0	318.0	282.0	8.4	10.2	9.2
Poughkeepsie	103.9	110.0	108.5	5.2	4.6	4.3	5.0	4.2	3.9
Rochester	461.8	486.0	483.6	24.0	24.2	27.4	5.2	5.0	5.7
Syracuse	301.8	307.8	306.4	20.0	16.9	18.3	6.6	5.5	6.0
Utica—Rome	138.8	144.2	142.8	8.6	8.3	8.2	6.2	5.7	5.8
NORTH CAROLINA									
Asheville	2,722.2	2,781.4	2,745.5	99.1	155.0	128.2	3.6	5.6	4.7
.....	84.3	86.0	84.6	2.9	4.2	3.5	3.5	4.9	4.1
Charlotte—Gastonia	323.9	331.8	329.1	9.1	15.7	13.3	2.8	4.7	4.1

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1978	JUL. 1979	AUG. 1979P	AUG. 1978	JUL. 1979	AUG. 1979P	AUG. 1978	JUL. 1979	AUG. 1979P
NORTH CAROLINA—Continued									
Greensboro—Winston-Salem—High Point	407.1	419.0	413.6	13.3	21.3	17.6	3.3	5.1	4.3
Raleigh—Durham	268.2	277.8	274.9	7.0	11.7	9.3	2.6	4.2	3.4
NORTH DAKOTA									
Fargo—Moorehead ¹	321.1	335.8	331.9	11.9	10.1	8.3	3.7	3.0	2.5
.....	72.0	73.2	71.9	2.9	2.5	2.3	4.0	3.5	3.1
OHIO²									
Akron	5,031.6	5,106.6	5,154.7	262.4	337.8	354.3	5.2	6.6	6.9
Canton	301.5	305.2	306.7	16.7	21.7	21.1	5.5	7.1	6.9
Cincinnati ¹	182.0	186.5	186.9	9.2	11.9	10.7	5.1	6.4	5.7
Cleveland	660.9	671.9	680.5	34.2	39.6	43.1	5.2	5.9	6.3
Columbus	942.1	944.7	947.9	42.4	53.2	52.4	4.5	5.6	5.5
Dayton	535.9	546.3	549.9	25.2	30.2	27.9	4.7	5.5	5.1
Toledo ¹	380.9	393.1	395.0	17.4	30.9	32.8	4.6	7.9	8.3
Youngstown—Warren	364.8	372.7	372.8	22.6	28.4	27.7	6.2	7.6	7.4
.....	238.2	239.9	248.8	17.0	17.8	26.3	7.1	7.4	10.6
OKLAHOMA									
Oklahoma City	1,264.6	1,305.5	1,288.2	45.1	46.3	42.2	3.6	3.5	3.3
Tulsa	383.1	403.8	401.5	12.4	12.8	12.1	3.2	3.2	3.0
.....	305.0	308.4	304.1	10.1	10.9	9.3	3.3	3.5	3.0
OREGON									
Eugene—Springfield	1,206.0	1,217.2	1,224.1	63.0	80.2	78.8	5.2	6.6	6.4
Portland ¹	124.0	125.8	126.5	7.7	10.0	10.1	6.2	7.9	8.0
Salem	575.0	585.4	585.3	27.0	32.4	31.5	4.7	5.5	5.4
.....	119.0	115.0	120.1	5.3	7.5	6.2	4.4	6.5	5.2
PENNSYLVANIA²									
Allentown—Bethlehem—Easton ¹	5,300.0	5,397.9	5,319.9	346.2	340.3	372.8	6.5	6.3	7.0
Altoona	297.0	305.2	299.0	18.3	20.3	20.9	6.2	6.7	7.0
Erie	56.9	58.9	58.0	3.9	4.3	5.0	6.8	7.3	8.6
Harrisburg	122.8	128.4	125.7	7.8	7.6	8.8	6.3	5.9	7.0
Johnstown	217.7	221.6	218.6	10.1	9.6	11.1	4.6	4.3	5.1
Lancaster	108.1	110.8	110.3	9.2	8.7	10.6	8.5	7.8	9.6
Northeast Pennsylvania	173.3	178.2	175.6	7.1	7.2	8.3	4.1	4.1	4.7
Philadelphia ¹	280.8	290.7	282.3	20.9	28.0	25.1	7.4	9.6	8.9
Pittsburgh	2,083.6	2,126.3	2,179.1	154.8	138.6	156.2	7.4	6.5	7.2
Reading	1,000.0	1,030.2	1,003.2	56.1	52.6	59.9	5.6	5.1	6.0
Williamsport	145.9	154.9	151.0	8.0	8.7	8.4	5.5	5.6	5.6
York	53.6	55.4	54.7	3.7	4.4	5.3	6.9	8.0	9.7
.....	166.8	172.9	167.8	9.2	10.1	8.8	5.5	5.8	5.2
RHODE ISLAND									
Providence—Warwick—Pawtucket ¹	439.5	460.0	460.5	30.0	32.5	27.1	6.8	7.1	5.9
.....	442.8	458.1	N.A.	31.0	32.8	N.A.	7.0	7.2	N.A.
SOUTH CAROLINA									
Charleston—North Charleston	1,313.6	1,344.0	1,338.0	73.5	65.9	60.5	5.6	4.9	4.5
Columbia	151.5	158.0	157.0	9.6	8.5	7.7	6.3	5.4	4.9
Greenville—Spartanburg	168.0	174.0	173.8	6.7	6.9	6.2	4.0	3.9	3.6
.....	258.4	260.8	261.8	11.5	10.0	9.2	4.4	3.8	3.5
SOUTH DAKOTA									
Sioux Falls	348.2	352.1	346.5	10.1	10.5	9.2	2.9	3.0	2.7
.....	60.9	61.2	59.8	1.6	1.3	1.2	2.7	2.2	2.0
TENNESSEE									
Chattanooga ¹	1,930.9	2,018.1	2,004.0	102.0	136.6	116.0	5.3	6.8	5.8
Knoxville	185.9	191.3	191.0	9.7	13.4	12.1	5.2	7.0	6.3
Memphis ¹	203.7	210.9	208.5	8.6	9.7	8.6	4.2	4.6	4.1
Nashville—Davidson	375.0	388.1	386.3	21.7	21.8	20.5	5.8	5.6	5.3
.....	394.0	410.8	409.3	16.2	22.6	20.2	4.1	5.5	4.9
TEXAS²									
Amarillo	6,030.5	6,287.2	6,180.5	305.1	297.4	285.2	5.1	4.7	4.6
Austin	85.9	88.9	87.6	3.1	3.4	3.3	3.6	3.9	3.7
Beaumont—Port Arthur—Orange	234.0	249.2	244.3	8.6	8.8	8.0	3.7	3.5	3.3
Corpus Christi	164.8	164.7	162.5	11.0	11.1	10.2	6.7	6.8	6.3
Dallas—Fort Worth	131.6	136.1	134.0	7.7	7.5	7.5	5.8	5.5	5.6
El Paso	1,403.3	1,498.8	1,476.6	64.2	59.5	59.0	4.6	4.0	4.0
Galveston—Texas City	168.5	173.8	170.6	16.5	15.0	14.2	9.8	8.6	8.3
Houston	84.7	84.2	82.5	5.1	4.8	4.5	6.0	5.7	5.4
Lubbock	1,361.9	1,419.3	1,396.1	57.8	53.5	51.1	4.2	3.8	3.7
San Antonio	101.4	103.9	102.3	4.1	4.1	3.8	4.1	3.9	3.7
Waco	407.2	416.8	409.8	27.9	27.4	26.0	6.8	6.6	6.4
Wichita Falls	76.5	79.3	78.4	3.8	3.5	3.6	4.9	4.5	4.6
.....	58.9	60.5	59.4	2.2	2.3	1.9	3.7	3.8	3.2

See footnotes at end of table.

STATE AND AREA UNEMPLOYMENT DATA

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

(Numbers in thousands)

State and area	Labor force			Unemployment					
				Number			Percent of labor force		
	AUG. 1978	JUL. 1979	AUG. 1979P	AUG. 1978	JUL. 1979	AUG. 1979P	AUG. 1978	JUL. 1979	AUG. 1979P
UTAH	547.5	581.6	584.6	19.1	22.1	22.2	3.5	3.8	3.8
Salt Lake City—Ogden	362.0	384.6	387.5	13.0	14.4	15.0	3.6	3.7	3.9
VERMONT	239.5	245.1	244.8	12.4	11.2	10.3	5.2	4.6	4.2
VIRGINIA	2,468.2	2,519.1	2,502.2	125.5	118.4	113.7	5.1	4.7	4.5
Lynchburg	73.5	76.9	76.7	3.4	3.1	3.0	4.7	4.1	3.9
Newport News—Hampton	157.4	166.5	164.2	9.1	9.6	8.5	5.7	5.8	5.2
Norfolk—Virginia Beach—Portsmouth ¹	321.8	325.2	322.9	18.9	18.0	17.3	5.9	5.5	5.4
Petersburg—Colonial Heights—Hopewell	59.5	61.0	60.4	3.5	3.2	3.3	5.8	5.3	5.4
Richmond	322.3	325.2	325.2	11.5	11.4	11.2	3.6	3.5	3.4
Roanoke	108.5	111.3	110.7	4.8	4.5	4.7	4.4	4.1	4.3
WASHINGTON	1,779.9	1,882.1	1,889.4	112.7	117.6	109.1	6.3	6.2	5.8
Seattle—Everett	766.8	826.4	832.1	40.9	42.6	39.4	5.3	5.2	4.7
Spokane	143.3	147.0	146.1	7.9	8.9	7.7	5.5	6.1	5.3
Tacoma	165.9	175.5	176.1	12.1	12.0	11.3	7.3	6.8	6.4
WEST VIRGINIA	718.3	747.6	741.9	44.3	48.8	40.9	6.2	6.5	5.5
Charleston	116.9	119.8	119.9	3.6	4.8	4.2	3.1	4.0	3.5
Huntington—Ashland ¹	117.6	119.9	120.6	6.3	7.0	7.0	5.3	5.9	5.8
Parkersburg—Marietta ¹	66.9	69.6	70.2	3.2	4.0	3.7	4.7	5.7	5.3
Wheeling ¹	78.5	78.3	78.9	3.5	4.4	3.9	4.5	5.6	4.9
WISCONSIN	2,350.8	2,415.7	2,398.8	112.0	119.2	97.1	4.8	4.9	4.0
Appleton—Oshkosh	148.8	N.A.	152.4	6.4	N.A.	5.8	4.3	N.A.	3.8
Eau Claire	51.5	N.A.	54.5	3.3	N.A.	2.7	6.4	N.A.	4.9
Green Bay	89.8	N.A.	89.8	4.6	N.A.	3.9	5.1	N.A.	4.3
Kenosha	62.8	N.A.	62.4	4.6	N.A.	3.0	7.4	N.A.	4.8
La Crosse	44.5	N.A.	45.2	2.3	N.A.	1.8	5.1	N.A.	4.1
Madison	176.1	N.A.	179.5	6.6	N.A.	5.7	3.7	N.A.	3.2
Milwaukee	717.3	N.A.	734.4	30.4	N.A.	25.1	4.2	N.A.	3.4
Racine	90.8	N.A.	90.8	5.5	N.A.	4.1	6.0	N.A.	4.5
WYOMING	222.3	236.9	237.4	6.1	5.7	5.7	2.7	2.4	2.4

¹ Includes interstate portion of area located in adjacent State.

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

NOTE: Estimates for 1978 have been benchmarked to 1978 Current Population Survey annual averages. Except in the 10 States and 2 areas designated by footnote 2, estimates for 1979 are pro-

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

p=preliminary.

N.A.=not available.

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

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

Explanatory Notes

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

Introduction

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

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

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

RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

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

Employment

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

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

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

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

Hours of work

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

COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

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

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

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

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

COMPARABILITY OF THE PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

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

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

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

Household data

(A tables)

COLLECTION AND COVERAGE

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

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

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

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

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

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

CONCEPTS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Nonveterans are males who never served in the Armed Forces.

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

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

HISTORIC COMPARABILITY

Raised lower age limit

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

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

Noncomparability of labor force levels

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

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

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

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

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

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

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

Changes in occupational classification system

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

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

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

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

Changes in sample design

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

One major change made after every decennial census is to change the sample design to make use of the recently collected census materials. Also, occasionally the sample is expanded in terms of number of sample areas and number of sample persons. In 1953, a rotation plan was introduced in which a sample unit would be interviewed for 4 months, leave the sample for eight months, and then return to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added to the sample to account for the population in these States. After the 1960 census, selection of a major portion of the sample from census address lists was begun, though a portion of the sample is still collected using area sampling. Following the 1970 census, the ultimate sampling unit was changed from a non-contiguous cluster of six housing units to a usually contiguous cluster of four housing units. A recent change was introduced in January 1978, when a supplemental sample of housing units, selected in 24 States and the District of Columbia and designed to provide more reliable annual

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

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

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

be vacant or otherwise not eligible for interview.

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

average estimates for States, was incorporated with the existing design. A coverage improvement sample was included in computing the estimates beginning in October 1978 in order to provide coverage of mobile homes and new construction housing units that previously had no chance for selection in the CPS sample. This sample is composed of approximately 450 sample household units which represent 237,000 occupied mobile homes and 600,000 new construction housing units. These new construction units are composed of those units where building permits were issued prior to January 1970 and construction was not completed by the time of the 1970 Census (i.e., April 1970). The extent of other sources of housing undercoverage is unknown but believed to be small. The inclusion of this coverage improvement sample in the CPS does not have a significant effect on the estimates.

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

ESTIMATING METHODS

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

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

1. *Noninterview adjustment.* The weights for all interviewed households are adjusted to the extent needed to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of

the respondent for other reasons. This adjustment is made separately by combinations of sample areas within each State and the District of Columbia, and within these, for six groups—two race categories (white, and black and other) within three residence categories. For sample areas which are Standard Metropolitan Statistical Areas (SMSA's), these residence categories are the central cities, and the urban and the rural balance of the SMSA's. For other sample areas, the residence categories are urban, rural nonfarm, and rural farm. The proportion of sample households not interviewed varies from 3 to 5 percent depending on weather, vacations, etc.

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

a. *First-stage ratio estimate.* In the CPS, a portion of the 614 sample areas are chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The procedure is performed at two geographic levels: First, by the four census regions (Northeast, North Central, South and West), and secondly, for each of the 46 States which contains nonsample areas. The procedure corrects for the differences that existed at the time of the 1970 census between the distribution by race and residence of the population in the sample areas and the known race-residence distribution in the portions of the census region or State represented by these areas. The regional adjustment is performed by

metropolitan-nonmetropolitan residence and race, while the State adjustment is done by urban-rural status and race.

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

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

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

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

Rounding of estimates

The sums of individual items may not always equal the totals shown in the same tables because of independent rounding of totals

and components to the nearest thousand. Differences, however, are insignificant.

Reliability of the estimates

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

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

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

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

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

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

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

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

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

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

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

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

Tables C through G provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table H contains factors for use with table G for computing standard errors, as described below, for monthly level and month-to-month change for percentages. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. The standard

error for estimated changes from one month to the next is more closely related to the monthly level for the characteristic than to the size of the specific month-to-month change itself. Thus, in order to use the generalized standard errors for month-to-month change as given in the tables of standard errors, it is necessary to obtain the monthly estimate for the characteristic. It should be noted that the tables of standard errors for month-to-month change apply only to estimates of change between two consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table I contains factors for use with tables C, E, G and H to compute approximate standard errors, as described below, for levels, labor force participation rates and percentages as pertaining to year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note, that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50 and for the 1956-1966 period they should be multiplied by 1.22.

Table A. Standard errors of major employment status categories

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

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

Illustration. Assume that the tables showed that the number of persons working a specific number of hours was 12,000,000, an increase of 400,000 over the previous month. Linear interpolation in the second column of table C shows that the standard error on an estimate of 12,000,000 is about 150,000. The 68 percent confidence interval as shown by these data is from 11,850,000 to 12,150,000. Therefore, a conclusion that the average estimate derived from all possible samples lies within a range computed in this way would be correct for roughly 58 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in column one of table D the standard error on a month-to-month change of 400,000 when the monthly level is approximately 12,000,000 is about 111,000.

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

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

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

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

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

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

Table B. Standard errors of unemployment rates for major characteristics

Selected categories	Standard error of—		Selected categories	Standard error of—	
	Monthly level	Consecutive month change		Monthly level	Consecutive month change
Total (all civilian workers) . . . . .	.11	.11	OCCUPATION—Continued		
Males, 20 years and over . . . . .	.13	.13	Blue collar workers—Continued		
Females, 20 years and over . . . . .	.17	.18	Operatives, except transport . . . . .	.35	.40
Both sexes, 16-19 years . . . . .	.55	.65	Transport equipment operatives . . . . .	.49	.55
White workers . . . . .	.11	.11	Nonfarm laborers . . . . .	.62	.71
Black (and other) workers . . . . .	.45	.47	Service workers . . . . .	.31	.34
Married men, spouse present . . . . .	.12	.13	Farm workers . . . . .	.55	.62
Married women, spouse present . . . . .	.21	.22			
Full-time workers . . . . .	.11	.12	INDUSTRY		
Part-time workers . . . . .	.32	.40	Nonagricultural private wage and salary workers . . . . .	.12	.13
Unemployed 15 weeks and over . . . . .	.06	.07	Construction . . . . .	.58	.66
OCCUPATION			Manufacturing . . . . .	.72	.74
White-collar workers . . . . .	.12	.13	Durable goods . . . . .	.27	.30
Professional and technical . . . . .	.18	.20	Nondurable goods . . . . .	.36	.40
Managers and administrators, except farm . . . . .	.19	.21	Transportation and public utilities . . . . .	.31	.35
Sales workers . . . . .	.37	.41	Wholesale and retail trade . . . . .	.25	.28
Clerical workers . . . . .	.23	.26	Finance and service industries . . . . .	.17	.19
Blue-collar workers . . . . .	.20	.22	Government workers . . . . .	.21	.23
Craft and kindred workers . . . . .	.27	.30	Agricultural wage and salary workers	1.09	1.24

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

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

¹ When determining the standard error of an estimate for a group which is a subset of the age, sex, race groups listed, use the standard error for the next larger group, e.g., when determining the standard error on the estimated number of employed persons age 20 to 54 years use the column for total employed.

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

(In thousands)

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

¹ See footnote 1, table C.

² Part-time labor force for unemployment also includes persons

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

Table E. Standard errors of unemployment rates

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

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

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

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

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

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

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

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

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

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

Establishment data

(B, C, and D tables)

COLLECTION

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

Federal-State cooperation

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

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

Shuttle schedules

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

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

CONCEPTS

Industrial classification

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

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

Industry employment

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

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

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

Industry hours and earnings

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Labor turnover

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

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

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

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

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

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

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

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

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

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

Relationship of labor turnover to employment series

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

ESTIMATING METHODS

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

The "link relative" technique

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

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

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

See footnotes at end of table.

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

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

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

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

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

Size and regional stratification

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

Benchmark adjustments

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

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

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

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

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

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

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

THE SAMPLE

Design

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

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

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

Coverage

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

Reliability of the employment estimates

Although the relatively large size of the BLS establishment sample assures a high degree of accuracy, the estimates derived from it may differ from the figures that would be obtained if it were possible to take a complete census using the same schedules and procedures. As discussed under the previous section, a "link relative" technique is used to estimate employment. This requires the use of the previous month's estimate as the base in computing the current month's estimate. Thus, small sampling and response errors may cumulate over several months. To remove this accumulated error, the estimates are usually adjusted annually to new benchmarks. In addition to taking account of sampling and response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table N presents the average percent revisions (based on the 1967 SIC) of the

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[In percent]

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

¹ Based on 1967 SIC.

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

³ Relative errors relate to March 1971 data.

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

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

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

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

¹ Based on 1967 SIC.

² Assuming 12-month intervals between benchmark revisions.

³ Relative errors relate to March 1971 data.

Table P. Errors of preliminary employment estimates¹

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

¹ Based on 1967 SIC.

STATISTICS FOR STATES AND AREAS

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

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

PRODUCTIVITY DATA

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

Definition

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

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

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

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

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

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

Notes on the data

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

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

State and area unemployment data

(E table)

FEDERAL-STATE COOPERATIVE PROGRAM

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

ESTIMATING METHODS

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

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

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

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

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

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

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

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

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

U=total entrant unemployment

E=total employment

X=total experienced unemployment

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

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

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

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

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

Seasonal adjustment

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

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

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

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

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

Revised seasonally adjusted series for major components of the labor force based on data through December 1978, new seasonal factors for the 12 major components of the civilian labor force, and a description of the seasonal adjustment methodology are published in the February 1979 *Employment and Earnings*. Many additional series, which are either components or aggregates of the series presented, are available from the BLS upon request.

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

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

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

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

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

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

U.S. Department of Labor

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