EMPLOYMENT AND EARNINGS
U.S. Departmentof Labor

Bureau of Labor Statistics
September 1990

In this issue: Establishment data adjusted
to new benchmarks and the 1987 SIC


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Employment and Earnings may be ordered through the Superintendent of Documents, U.S. Government Printing Office. Washington, DC 20402. Subscription price per year $\$ 25$ domestic and $\$ 31.25$ foreign. Single copy $\$ 8.50$ domestic and $\$ 10.63$ foreign. Annual supplement $\$ 14$ domestic and $\$ 17.50$ foreign. Prices are subject to change by the U.S. Government Printing Office

Correspondence concerning subscriptions, including address changes and missing issues, should be sent to the Superintendent of Documents. Phone (202) 275-3054. Communications on material in this publication should be addressed to: Editors. Employment and Earnings. Bureau of Labor Statistics. Washington, DC 20212. or phone: Gloria P. Green (202) 523-1959.

Second class postage paid at Washington. DC, and at additional mailing addresses

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## Calendar of Features

 in Emplovment and Earnings, special features appear in most of the issues as shown below
## Household data

| Annual averages | Jan. |
| :--- | :--- |
| Union affiliation | Jan. |
| Earnings by detailed occupation | Jan. |
| Revised seasonally adjusted series |  |
| Quarterly averages: Seasonally ad;usted data, persons |  |
| not in labor force, persons of Hispanic origin, |  |
| Vietnam-era veterans and nonveterans. family |  |
| relationship data, weekly earnings, data, and metro- |  |
| politan-nonmetropolitan and poverty-nonpoverty |  |
| area datia |  |

## Establishment data

National annual averages

Industry divisions (preliminary) Jan.
Industry detail (final) Mar.

Women employees (tinad) Mar.
National data revised to reflect new benchmarks and
new seanonal adiustment fator, June

Revised hivorical matonal data (2)

State and area annual averages May
Area detimitons May

State and area labor force data

Annual averages May

[^0]
# Employment and Earnings 

Vol. 37 No. 9 September 1990

Editors: Gloria Peterson Green, Rosalie K. Epstein


#### Abstract

Editors' Note Beginning with this issue, national estimates of employment, hours, and earnings from the monthly survey of business establishments have been revised to reflect March 1989 benchmarks (comprehensive counts of employment) and updated seasonal adjustment factors, which incorporate the experience through May 1990. In addition, industry detail is classified in accordance with the 1987 Standard Industrial Classification Manual, and all constant-dollar and other 1977-based series have been rebased to $1982=100$.

The article, beginning on page 6, discusses the effects of the revisions, and provides new seasonal adjustment factors to be used to calculate establishment-based estimates for August 1990-April 1991. Revised current data appear in tables B-1 through B-7 and C-1 through C-7. Revised historical data (unadjusted and seasonally adjusted) from the earliest dates of availability will be published in a forthcoming bulletin, Employment, Hours, and Earnings, United States, 1909-90.


## Contents

Page
List of statistical tables ..... 2
Employment and unemployment developments, August 1990 ..... 4
BLS establishment estimates revised to March 1989 benchmarks and 1987 SIC codes ..... 6
Statistical tables:
Historical-
Household data ..... 35
Establishment data:
Employment ..... 73
Hours and earnings ..... 109
Not seasonally adjusted-
Household data ..... 38
Establishment data:
Employment:
National ..... 74
State and area ..... 91
Hours and earnings:
National ..... 112
State and area ..... 136
State and area labor force data ..... 144
Seasonally adjusted-
Household data ..... 65
Establishment data:
Employment ..... 86
Hours and earnings ..... 133
Productivity data ..... 141
Explanatory notes ..... 149

## MONTHLY HOUSEHOLD DATA

Page
Employment Status
A- 1. Employment status of the noninstitutional population 16 years and over, 1956 to date ..... 35
A- 2. Employment status of the noninstitutional population 16 years and over by sex, 1979 to date ..... 36
A- 3. Employment status of the civilian noninstitutional population 16 years and over, 1956 to date ..... 37
A- 4. Employment status of the civilian noninstitutional population by age, sex, and race ..... 38
A- 5. Employment status of the black-and-other civilian noninstitutional population by age and sex ..... 41
A- 6. Employment status of the civilian noninstitutional population by race, sex, and age ..... 42
A- 7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin. ..... 43
A- 8. Employment status of male Vietnam-era veterans and nonveterans by age ..... 45
A- 9. Employed and unemployed full- and part-time workers by sex, age, and race ..... 46
A-10. Employment status of persons in families by family relationship. ..... 47
Characteristics of the Unemployed
A-11. Unemployed persons by marital status, race, age, and sex. ..... 48
A-12. Unemployed persons by occupation and sex ..... 49
A-13. Unemployed persons by industry and sex ..... 50
A-14. Unemployed persons by reason for unemployment, sex, and race ..... 51
A-15. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment ..... 52
A-16. Unemployed persons by duration of unemployment ..... 52
A-17. Unemployed persons by sex, age, race, marital status, and duration of unemployment ..... 53
A-18. Unemployed persons by occupation, industry, and duration of unemployment. ..... 54
A-19. Unemployed jobseekers by sex, age, race, and jobsearch methods used ..... 55
A-20. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used ..... 55
Characteristics of the Employed
A-21. Employed civilians in agriculture and nonagricultural industries by age and sex ..... 56
A-22. Employed civilians by occupation, sex, and age ..... 57
A-23. Employed civilians by occupation, race, and sex ..... 58
A-24. Employed civilians by age, sex, and class of worker ..... 59
A-25. Employed civilians by industry and occupation ..... 60
A-26. Employed civilians with a job but not at work by reason, sex, and pay status ..... 60
A-27. Persons at work by hours of work and type of industry ..... 61
A-28. Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status ..... 61
A-29. Persons at work in nonagricultural industries by class of worker and full- or part-time status ..... 62
A-30. Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status ..... 63
A-31. Persons at work in nonfarm occupations by sex and full- or part-time status. ..... 64
Seasonally Adjusted Employment and Unemployment Data
A-32. Employment status of the noninstitutional population, including Armed Forces stationed in the United States, by sex, seasonally adjusted ..... 65
A-33. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted ..... 66
A-34. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted ..... 67
A-35. Employed civilians by selected social and economic categories, seasonally adjusted ..... 68
A-36. Employed civilians by sex and age, seasonally adjusted ..... 69
A-37. Unemployed persons by sex and age, seasonally adjusted ..... 69
A-38. Unemployment rates by sex and age, seasonally adjusted ..... 70
A-39. Selected unemployment indicators, seasonally adjusted... ..... 70
A-40. Unemployed persons by duration of unemployment, seasonally adjusted ..... 71
A-41. Unemployed persons by reason for unemployment, seasonally adjusted ..... 71

## MONTHLY ESTABLISHMENT DATA

## Employment-National

B- 1. Employees on nonfarm payrolls by major industry, 1938 to date ..... 73
B- 2. Employees on nonfarm payrolls by detailed industry ..... 74
B- 3. Women employees on nonfarm payrolls by major industry and manufacturing group ..... 85
B- 4. Employees on nonfarm payrolls by major industry and manufacturing group, seasonally adjusted ..... 86
B- 5. Women employees on nonfarm payrolls by major industry and manufacturing group, seasonally adjusted ..... 87
B- 6. Production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted ..... 88
B- 7. Diffusion indexes of employment change, seasonally adjusted ..... 89
Employment-States and Areas
B. 8. Employees on nonfarm payrolls in States and selected areas by major industry ..... 91
Hours and Earnings-National
C- 1. Average hours and earnings of production or nonsupervisory workers on private nonfarm payrolls by major industry, 1964 to date ..... 109
C- 2. Average hours and earnings of production or nonsupervisory workers on private nonfarm payrolls by detailed industry ..... 112
C- 2a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing ..... 130
C- 3. Average hourly earnings, excluding overtime, of production workers on manufacturing payrolls ..... 131
C- 4. Average hourly and weekly earnings of production or nonsupervisory workers on private nonfarm payrolls by major industry, in current and constant (1982) dollars ..... 132
C- 5. Average weekly hours of production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted ..... 133
C- 6. Indexes of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted ..... 134
C- 7. Average hourly and weekly earnings of production or nonsupervisory workers on private nonfarm payrolls, seasonally adjusted ..... 135
Hours and Earnings-States and Areas
C- 8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas ..... 136

## PRODUCTIVITY DATA

C- 9. Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted ..... 141
C-10. Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted ..... 142
C-11. Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates ..... 143
MONTHLY STATE AND AREA LABOR FORCE DATA
D- 1. Labor force status by State and selected metropolitan areas ..... 144

# Employment and Unemployment Developments, August 1990 

Employment continued to be weak in August and unemployment rose slightly. The civilian worker unemployment rate edged up to 5.6 percent in August, after a more substantial increase in July.
Nonfarm payroll employment, as measured by the survey of business establishments, was little changed at 110.7 million in August, the second consecutive month it has failed to show any growth. Total civilian employment, as measured by the survey of households, fell for the second month in a row, to 117.7 million in August.

## Unemployment

Both the number of unemployed persons and the civilian worker unemployment rate edged up in August, after seasonal adjustment, with the number of unemployed reaching 7.0 million and the rate 5.6 percent. Prior to July, the jobless rate had fluctuated around the 5.3-percent mark for nearly 2 years. (See table A-33.)
Over-the-month movements in the jobless rates for most individual worker groups were very small but generally upward. August rates were 5.0 percent for adult men, 4.9 percent for adult women, 16.7 percent for teenagers, 4.8 percent for whites, 11.8 percent for blacks, and 7.8 percent for Hispanics. (See tables A-33 and A-34.)

The number of unemployed persons who lost their last jobs rose by 280,000 in August, while there was little change in the number who voluntarily left their last jobs or in the number who were entering the labor force. The number of newly unemployed persons, those jobless for less than 5 weeks, rose by 200,000 to 3.3 million. (See tables A-40 and A-41.)

## Civilian employment and the labor force

Total civilian employment fell by 300,000 , seasonally adjusted, to a level of 117.7 million. Most of this decline occurred among teenagers. Total employment has declined by 730,000 in the last 2 months. As a result, the proportion of the working-age population that is employed (the employment-population ratio) declined to 62.5 percent in August, down by half a percentage point over the past 2 months. (See table A-33.)

The number of persons in the civilian labor force, 124.7 million, and the labor force participation rate, 66.2 percent, were little changed over the month, after seasonal ad-
justment. Over the past year, the labor force has increased by only 570,000 , as growth in the working-age population has slowed and the percentage participating in the labor force has diminished. Virtually all of the reduced labor force participation has occurred among teenagers, whose participation rate was down by about $5-1 / 2$ percentage points from a year earlier. (See table A-33.)

## Industry payroll employment

Payroll employment continued to be weak in August, as job declines occurred throughout the goods-producing sector. These losses were only partly offset by small gains in the service-producing sector. Largely because of a further decline in the number of temporary census workers, total payroll employment edged down by 75,000 over the month, following a decrease of 90,000 (as revised) in July. Employment growth in the private sector, which had been slowing since early 1989 , has essentially halted during the last 2 months. (See table B-4.)

Goods-producing employment fell by 90,000 in August. The number of manufacturing jobs declined by 45,000 , with virtually all of the losses occurring in durable goods industries, particularly in electronic equipment and transportation equipment. Since reaching a post-recession peak in January 1989, the number of factory jobs has declined by 455,000 . The industries with the largest losses include electronic equipment $(-100,000)$, motor vehicles $(-80,000)$, apparel $(-55,000)$, fabricated metals $(-50,000)$, and instruments $(-40,000)$.

Construction employment continued its recent downtrend with a 40,000 reduction in August and has lost nearly 100,000 jobs in the last 3 months. Employment in mining, which had grown by 60,000 since last July, decreased by 7,000 in August.

In the service-producing sector, the number of services industry jobs rose by 70,000 in August. Much of the gain came from health services, which has accounted for more than a quarter of the total job growth over the past year. In contrast, business services showed no change in August, following a small decline in July; this industry, which had seen rapid job gains during much of the expansion, has had much slower growth since early 1989.

State and local governments continued their employment expansion in August, adding 60,000 jobs. Overall
government employment fell by 65,000 jobs, however, because of further reductions in the number of decennial census workers (which was down by an estimated 120,000 over the month). Retail trade showed little change over the month and has been unusually sluggish for most of this year. The wholesale trade, transportation and public utilities, and finance, insurance, and real estate industries all experienced small job gains in August after incurring small losses in the prior month.

## Weekly hours

The average workweek of production or nonsupervisory workers on private nonfarm payrolls was unchanged in August at 34.5 hours, seasonally adjusted. In manufacturing, the workweek and overtime each edged up by 0.1 hour to 41.0 and 3.9 hours, respectively. (See table C-5.)

The index of aggregate weekly hours of private production or nonsupervisory workers-which combines the effects of employment and hours-inched downward in August to $124.6(1982=100)$, after seasonal adjustment. The index for manufacturing also edged down, to 107.2. Both indexes have shown little change thus far during 1990. (See table C-6.)

## Hourly and weekly earnings

After seasonal adjustment, average hourly and weekly earnings each edged up 0.2 percent. Prior to seasonal adjustment, average hourly earnings declined 1 cent to $\$ 9.99$, while average weekly earnings fell $\$ 1.35$ to $\$ 347.65$. Over the year, average hourly earnings rose 4.0 percent and average weekly earnings were up 3.7 percent. (See tables C-1 and C-7.)

## Note on temporary census workers

The number of temporary workers associated with the 1990 census has an impact on the employment levels for the Federal Government, as well as for higher aggregates. The estimate of these workers was 22,000 in January, 27,000 in February, 117,000 in March, 178,000 in April, 378,000 in May, 367,000 in June, and 194,000 in July. For August, the estimated number (preliminary) was 74,000 , which may be subject to significant revision.

| Scheduled Release Dates |  |  |  |
| :--- | :--- | :--- | :--- |
| Employment and unemployment data are scheduled for initial release on the <br> following dates: |  |  |  |
| Reference month | Release date | Reference month | Release date |
| September | October 5 | December | January 4 |
| October | November 2 | January | February 1 |
| November | December 7 | February | March 8 |

# Establishment Estimates Revised to March 1989 Benchmarks and 1987 SIC Codes 

*Patricia M. Getz

With the release of data for August 1990, the Bureau of Labor Statistics introduced its annual revision of national estimates of employment, hours, and earnings from the monthly sample survey of nonfarm establishments. Each year, the sample estimates are adjusted to new benchmarks, which are comprehensive universe counts of employment based primarily on unemployment insurance reports filed by all employers with State employment security agencies. This year's benchmark revision marks the fourth time during the 1980's that there has been essentially no net revision at the total nonfarm level.

Also effective with this release, all industry series have been converted to 1987 Standard Industrial Classification (SIC) codes. ${ }^{1}$ This new structure replaces the 1972 sIC coding structure previously in effect for the industry estimates. The SIC restructuring affected approximately onethird of all published industry series. The impact of SIC restructuring at the total nonfarm and major industry division levels was negligible; however, there were significant effects for some of the detailed industries.

All data from April 1988 forward have been revised to incorporate both the March 1989 benchmarks and the effects of the sIC revision. Historical (pre-1988) data for industry series affected by sIC redefinitions have been reconstructed where possible. Historical data for the industry series unaffected by the SIC revision remain as previously published.

As is the usual practice with the introduction of new benchmarks, the Bureau has also revised all seasonally adjusted series for the previous 5 -year period and has introduced new seasonal adjustment factors to be used to adjust data in the months ahead.

In addition, all published constant-dollar and indexed series have been recomputed on a 1982 base, replacing the previously published 1977-based data. This type of rebasing generally accompanies a major SIC redefinition.

[^1]
## Conversion to the 1987 sIC coding structure

The sIC coding system is periodically updated to reflect structural and technological changes in the economy. Growing, emerging industries may be recognized with independent SIC codes for the first time, while SIC codes for declining industries may be eliminated by collapsing them with other like industries into a single sic code.

The 1987 SIC revision marks the first full sic restructuring since 1972; there were minor updates to the sIC system in 1977.

Scope of the SIC restructuring. Approximately two-thirds of the published industry series were unaffected by the SIC revision. There were almost no changes in scope at the major industry division levels, with only very minor shifts between wholesale and retail trade and between the finance, insurance, and real estate division and services. However, there were several significant redefinitions at the 2 -digit level. The most notable were in two divisions, manufacturing and services. In manufacturing, a substantial realignment took place between electronic and other electrical equipment (sIC 36) and instruments and related products (SIC 38). Rubber and miscellaneous plastics products (SIC 30 ) and stone, clay, and glass products (SIC 32) were also noticeably affected, but to a much lesser degree. In services, a new 2 -digit code (SIC 87) was established for "engineering and management services." Most of these activities had previously been classified in business services (SIC 73) or miscellaneous services (SIC 89).

At the 3- and 4-digit sIc levels, changes in scope were both more prevalent and more substantial. Table 1 lists all 1987 sIc-based published series which are not equivalent to a 1972 sIc-based series and relates them to the 1972-based series from which they were derived. Ratios indicate the percentage of employment in each old series that was allocated to the new series. Table 1 also lists the beginning year that all-employee data are available for each of these series. Table 2 lists the 44 previously published 1972-based industry series which were deleted in the conversion to the 1987 SIC structure. It indicates which 1987 -based series these were converted to and the percentage of employment from the old series which went
to each new series. ${ }^{2}$ It should be noted that, in addition to industry stratification changes required by the SIC redefinitions, some changes were made to improve estimating efficiencies.

Reconstruction of estimates. All restructured industries were reestimated using the 1987 sic-coded sample data from January 1988 forward. Some aggregate level industries, without scope changes, have also been affected by the retabulations because they are formed from the summation of restratified, reestimated component industries.

Historical estimates prior to 1988 could not be retabulated from sample data, because sample records carry only 1972 sic codes. For industries with relatively minor scope changes, historical data were reconstructed back to the inception of the series, wherever possible. The reconstruction of historical series was done by adjusting the existing 1972-based employment series for the percentage of employment lost or the percentage of employment gained from other industries, using ratios derived from first quarter 1988 universe employment data. The first quarter 1988 data represent the only dual sIC-coded data available for developing these adjustment ratios.

Hours and earnings data for restructured series were derived by computing a weighted average of the component series they were derived from. The weights are the percentages of employment each old series contributed to the new series.

## Effect of the sic restructuring and the current benchmark adjustment

The net impact of the SIC restructuring and the adjustment to March 1989 benchmark levels on total nonfarm employment was an upward revision of only 9,000 from the previously published level. Table 3 presents, for March 1989, previously published estimates based on the 1972 SIC codes, retabulated estimates based on the 1987 SIC, and the newly published benchmark levels. It displays separately the revision effects due to SIC restructuring and those due to benchmarking, and shows the net effect, which is the sum of the two.

Effects due to SIC restructuring. As table 3 indicates, the SIC revision had a large impact on only a few major industries. For total nonfarm employment, the SIC revision effect, due entirely to restratification and not to any scope change, was 56,000 or less than 0.05 percent. At the major division levels, the impact varied from 1,000 in mining to 65,000 in services. Almost all of the effect at the major division levels was also from the restratification of industries within these aggregates, not from SIC scope changes.

[^2]At the detailed industry level, the largest effects of the SIC revision were in business services $(-928,000)$, instruments and related products $(+301,000)$, and electronic and other electrical equipment $(-292,000)$.

Effects due to 1989 benchmarks. The benchmark effect shown in table 3 represents a comparison of March 1989 estimates retabulated under the 1987 SIC structure and the March 1989 benchmark levels. Estimates previously published were based on the 1972 SIC coding structure; however, March 1989 benchmark levels were available only on a 1987 sIC basis. Therefore it was necessary to retabulate estimates on the 1987 SIC structure prior to benchmarking. For total nonfarm employment, the benchmark level stands at $107,026,000$. This represents a benchmark adjustment of $-47,000$ or less than 0.05 percent. This is considerably smaller than last year's benchmark error of $-326,000$ and marks the fourth time during the 1980's that the benchmark error has been virtually zero. (See table 4.)

As in previous years when the aggregate benchmark revision was very small, there were large, but offsetting errors among major divisions. Benchmark revisions were uniformly downward among the goods-producing divisions (mining, construction, and manufacturing), continuing the pattern of overestimation of these industries over the last several years. Within manufacturing, this tendency toward overestimation was widely diffused, with 15 of the 20 2-digit industries revised downward. Altogether, goods-producing industries were revised downward by 286,000.

Offsets to overestimation in the goods-producing sector occurred in the service-producing industries, which were revised upward by a total of 239,000 . The two largest revisions occurred in trade and services, 142,000 and 223,000 , respectively. Transportation and public utilities, and finance, insurance, and real estate had downward revisions of unusually large magnitudes compared with earlier years.

Revised estimates were computed each month from March 1989 forward (the postbenchmark period), based on the new benchmark levels. On a seasonally adjusted basis, the monthly revision increased from $-77,000$ in March 1989 to $-153,000$ by May 1990, with larger differences in some of the intervening months. These revisions reflect restratification effects from the SIC revision and a recomputation of both the bias adjustment and the seasonal adjustment factors. Table 5 shows the extent of the revisions for 1989 and 1990, in both level and change, through a comparison of seasonally adjusted monthly data as previously published and as revised.

Monthly estimates of employment, hours, and earnings are published in considerable industry detail. Table 6 indicates the size of revisions for the 265 published 3-digit industries. Within this group, more than one-fourth had revisions under 1 percent, and two-thirds had revisions under 3 percent. As has generally been the case, the small-
est industries in employment size tended to have the largest percentage revisions. (See table 6.)

## Effect of revisions on other series

As with the all-employee data, estimates were recomputed from sample data for women workers and production workers and for hours and earnings in industries affected by the SIC revision, from January 1988 forward. Table 7 shows the results of these recomputations for hours and earnings data for March 1989. As with the allemployee data, there are few significant changes at the published aggregate levels. Among average weekly hours estimates, only transportation and public utilities showed a significant effect from recomputation, a downward revision of 0.6 percent. Among average hourly earnings series, both electronic and other electrical equipment and instruments and related products showed large, partially offsetting changes, due to SIC redefinitions. Other differences were much less significant. At the total private level, hours and earnings were unchanged.

In addition to the sic revision effect, small revisions, due to the routine benchmarking process, can occur in the series on women workers and production and nonsupervisory workers. Although there are no benchmark employment levels for these series, they are revised by computing ratios of employment for the particular series to all employees prior to revision and then applying the ratios to the revised all-employee figures. Revisions at the basic cell level are added to produce the summary level revisions.

A verage weekly hours and average hourly earnings are estimated directly from reported figures at the estimating cell level and are not benchmarked. However, the broader industry groups of the hours and earnings series require a weighting mechanism to yield meaningful averages. The production or nonsupervisory worker employment estimates for the basic cells are used as weights for the hours and earnings estimates for broader industry groupings. Adjustments of the all-employee estimates to new benchmarks may alter the weights, which, in turn, may change the estimates for hours and earnings of production and nonsupervisory workers at higher levels of aggregation.

Generally, new employment benchmarks have little impact on hours and earnings estimates for major groupings. To influence the hours and earnings estimates of a broader group, employment revisions have to be relatively large and must affect industries which have substantially different hours or earnings averages than the other industries in their group. Occasionally, corrections of errors in the reported payroll data for individual establishments may also change the averages of selected industries.

## Benchmark adjustment procedure

The annual benchmark adjustment procedure serves both as a measure of the quality of the sample estimates and as a base for producing more accurate future monthly
measures of current industry employment levels from the sample. The benchmark levels are derived primarily from summations of the employment figures on the mandatory unemployment insurance (UI) contribution reports filed with the State employment security agencies by all employers covered by the UI laws. The figures compiled from these reports are adjusted where necessary to reflect minor discrepancies in industry coding between the establishments in the survey and the corresponding establishments in the population. The final benchmark levels are determined by adding to the adjusted UI-based figures estimates of employment in those industries that are not fully covered by UI laws. For the private sector, these are primarily in transportation and services.

Normally, new benchmarks are determined for March of each year for the most detailed industrial classification levels and size groups at which estimates are made, amounting to 1,700 estimating cells. The time required to complete the benchmark process-from the full collection of the UI population data to publication of the revised industry estimates-is usually about 15 months. Revised employment estimates for the period between the prior and the current benchmark are derived by spreading the March 1989 difference over the prior 11 months, adding 11/12's of the difference to the February 1989 estimates, 10/12's to the January 1989 estimates, and so forth. Revised estimates for the postbenchmark period are derived by extrapolating the new benchmark levels using the existing monthly sample links and revised bias adjustment factors. (See the next section.)

## Why estimates differ from benchmarks

Differences between population benchmarks and sam-ple-based estimates result from both sampling and nonsampling error. Sampling error occurs any time a sample is used to make inferences about a population. As with any sample-based estimates, a certain amount of error is to be expected in the estimation of employment, hours, and earnings from the establishment survey. A complete monthly count of all establishments would provide the most accurate levels of employment by detailed industry. However, given the more than 5 million employers in the population, the collection of such monthly figures would be prohibitively expensive and too time consuming to compile. The current sample of over 340,000 establishments provides preliminary estimates within a month following the reference period. Additionally, sources of nonsampling error can be more easily controlled in a sample.

Both the benchmark levels and the sample-based estimates are subject to several sources of nonsampling error. Major sources of these nonsampling errors are: (1) an inability to measure employment in new firms from the time of their inception, due to the time lag between the creation of new firms and their inclusion in the sample; (2) proce-
dures for handling changes in industrial classification; (3) the quality of the various source data used to derive the benchmark; (4) an inability to cover completely all firms in the target population; and (5) other errors in coverage, response, processing, and collection.

Bias adjustment factors. In order to compensate for the inability of the survey to capture the entry of new firms, the Bureau calculates monthly bias adjustment factors. To do so, each year, 3- to 5 -year averages of the relative differences between the March benchmark levels and sam-ple-based estimates are computed for most 3-digit industries. These are average annual bias adjustment factors and are updated to reflect current rates of employment change for the most recent quarter for the same industries. The updated factors are applied to the sample-based estimates for each estimating cell level in the industry. Finally, the estimates for the cells are aggregated to produce the monthly published estimates.

Changes in industrial classification. Establishments are classified by industry according to major product or activity. Differences in the classification of establishments between the population and the sample can be an important source of nonsampling error. As part of a continuing quality maintenance program, approximately one-third of all employers are requested to refile industry classification information each year. This information can result in changes in industry classification. In addition, industry codes of establishments in the sample are reviewed each year and are reconciled to the corresponding codes of the establishment in the population file. Since these changes are introduced once a year, at the time of the revision to new benchmarks, they contribute to benchmark adjustment. At the more detailed industry levels, changes in classification can be an important cause of benchmark adjustments. As the estimates are aggregated to higher level industry groupings, these classification changes cancel out, so that the net difference is zero for total nonfarm employment.

Benchmark source material. The principal source of benchmark data for private industries is the "ES-202 report," which contains employment data reported to State employment security agencies by employers covered by State UI laws. UI coverage is now extended to approximately 98 percent of employees in the total nonfarm sector and 99 percent of those in the private nonfarm sector. Employment counts for the executive, legislative, and judicial branches of the Federal Government are derived from official summaries prepared by the U.S. Office of Personnel Management (OPM). These summaries are complete counts of Federal workers and are not usually subject to
revision. ${ }^{3}$ The official opm summaries do not provide detail on Federal employment by industry, such as hospitals, on a current monthly basis. These are estimated by bls from a sample of Federal establishments.

BLS uses several sources to obtain employment counts for the remaining industries partially covered or exempt from mandatory UI coverage. Data on employees covered under Social Security laws, published by the Bureau of the Census in County Business Patterns, are used to augment UI data for nonoffice insurance sales workers and to derive benchmark figures for religious organizations, private schools, and hospitals. Benchmarks for State and local government hospitals and educational institutions are based on the Annual Survey of Governments conducted by the Bureau of the Census. Benchmark data for employees of church-sponsored schools are obtained through State agency surveys. Data for interstate railroads are obtained from the Interstate Commerce Commission.

## Seasonal adjustment procedure

BlS uses the X-11 ARIMA (Auto-Regressive Integrated Moving Average) seasonal adjustment procedure, developed by Statistics Canada, ${ }^{4}$ to seasonally adjust establish-ment-based employment, hours, and earnings data. The ARIMA option is used to project the unadjusted data forward for 1 year prior to seasonally adjusting the series. The use of ARIMA projections lessens the need for revisions of historical data in future seasonal adjustments. ARIMA projections are not used in series where the projections do not meet test requirements. ${ }^{5}$

In June 1989, the Bureau introduced the practice of computing and publishing projected factors twice a year for use in seasonally adjusting establishment-based employment, hours, and earnings data. This schedule was affected by the incorporation of the 1987 SIC revision. Thus, in this issue of Employment and Earnings, seasonal adjustment factors are provided for the 9 -month period August 1990-April 1991. Factors for the 6-month period May-October 1991 will appear in the June 1991 issue, reestablishing the practice of publishing 6 months of factors.

All published seasonally adjusted series have been revised for the most recent 5 years (1985-90) for the incorporation of new seasonal factors, as usual. In addition, series affected by the SIC revision which were reconstructed for years prior to 1985 have been seasonally adjusted again, based on the 1987 SIC-based estimates.

[^3]Beginning with the publication of April-July 1990 factors, a new moving-holiday extension of X-11 ARIMA was used to seasonally adjust the average weekly hours series and manufacturing overtime hours series. ${ }^{6}$ Historical seasonally adjusted series have been recomputed from January 1980 forward to incorporate this adjustment.

All series are seasonally adjusted using the multiplicative models under X-11 arima. 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. The seasonal adjustment factors that will be used for the period August 1990 through April 1991 for all published series are shown in tables 9 through 14. Seasonally adjusted data are not published for a small number of series characterized by small seasonal components relative to their trend-cycle

[^4]and/or irregular components. These series are identified in tables 10 and 12; they are used, however, in aggregating to broader seasonally adjusted levels.

## Publication of revised data

Data for detailed industry categories of employment, hours, and earnings will be presented in a historical bulletin, Employment, Hours, and Earnings, United States, 1909-90. It will contain all of the historical data revised as a result of the 1987 SIC revision, the March 1989 benchmarks, updated seasonal adjustment factors, and the rebasing of constant-dollar and indexed series, as well as prior data unaffected by these revisions.

Employment estimates are published monthly in Employment and Earnings for most of the significant nonfarm industries. Those industries for which monthly data are not published are either too small or are not represented by a sufficient sample. Table 8 contains the March 1989 benchmark figures for these industries.

Table 1. Published industries restructured under the 1987 SIC and relationship of employment to the 1972 SIC industries


See footnotes at end of table.

Table 1. Published industries restructured under the 1987 SIC and relationship of employment to the 1972 SIC industries-Continued


See footnotes at end of table.

Table 1. Published industries restructured under the 1987 SIC and relationship of employment to the 1972 SIC industries-Continued

| 1987 SIC industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { code } \end{gathered}$ | $\begin{gathered} 1972 \\ \text { SIC } \\ \text { code } \end{gathered}$ | $\begin{gathered} 1972 \text { to } 1987 \\ \text { ratio }^{1} \end{gathered}$ | Beginning year for allemployee series |
| :---: | :---: | :---: | :---: | :---: |
| Durable goods-Continued |  |  |  |  |
| Medical instruments and supplies | 384 | 369 | 20.7178 | 1988 |
|  | 384 | 384 | 100.0000 |  |
| Costume jewelry and notions | 396 | 396 | 85.8026 | 1988 |
| Miscellaneous manufactures | 399 | 396 | 14.1973 | 1972 |
|  | 399 | 399 | 100.0000 |  |
| Nondurable goods | - | - | $\begin{array}{r} 2.3127 \\ 399.0283 \end{array}$ | 1939 |
| Food and kindred products: |  |  |  |  |
| Poultry slaughtering and processing .. | 2015 | 2016 | 100.0000 | 1972 |
|  | 2015 | 2017 | 100.0000 |  |
| Preserved fruits and vegetables | 203 | 203 | 95.8883 | 1972 |
| Canned specialties .. | 2032 | 2032 | 99.8392 | 1972 |
| Prepared feeds, nec. | 2048 | 2047 | 20.1742 | 1972 |
|  | 2048 | 2048 | 100.0000 |  |
| Bakery products | 205 | 203 | 3.5699 | 1972 |
|  | 205 | 205 | 100.0000 |  |
| Cookies, crackers, and frozen bakery products, except bread. | 2052,3 | 2038 | 100.0000 | 1988 |
| Sugar and confectionery products ..... | 206 | 203 | . 5247 | 1972 |
|  | 206 | 206 | 100.0000 |  |
|  | 206 | 209 | . 7356 |  |
| Candy and other confectionery products | 2064 | 2065 | 89.1262 | 1988 |
| Miscellaneous food and kindred products. | 209 | 203 | . 0169 | 1972 |
|  | 209 | 209 | 99.2643 |  |
| Textile mill products: |  |  |  |  |
| Knitting mills | 225 | 225 | 100.0000 | 1958 |
|  | 225 | 229 | 5.3622 |  |
| Yarn and thread mills: |  |  |  |  |
| Yarn spinning mills | 2281 | 2281 | 100.0000 | 1972 |
|  | 2281 | 2283 | 81.6835 |  |
| Throwing and winding mills | 2282 | 2282 | 100.0000 | 1972 |
|  | 2282 | 2283 | 18.1135 |  |
| Miscellaneous textile goods | 229 | 229 | 94.6377 | 1958 |
| Apparel and other textile products: |  |  |  |  |
| Men's and boys' shirts ... | 2321 | 2321 | 93.9364 | 1958 |
| Men's and boys' trousers and slacks | 2325 | 2327 | 100.0000 | 1988 |
|  | 2325 | 2328 | 44.8317 |  |
| Men's and boys' work clothing | 2326 | 2328 | 55.1683 | 1988 |
| Paper and allied products | 26 | 26 | 99.3481 | 1939 |
| Paper mills . . . . . . . . . . | 262 | 262 | 100.0000 | 1972 |
|  | 262 | 266 | 35.1768 |  |
| Sanitary food containers | 2656 | 2654 | 69.2511 | 1988 |
| Folding paperboard boxes | 2657 | 2651 | 100.0000 | 1988 |
|  | 2657 | 2654 | 30.7489 |  |
| Paper, coated and laminated, nec. | 2672 | 2641 | 70.3688 | 1988 |
| Bags: plastics, laminated, and coated | 2673 | 2643 | 63.3756 | 1988 |
| Printing and publishing: |  |  |  |  |
| Commercial printing . | 275 | 275 | 99.0699 |  |
| Commercial printing, nec. | 2759 | 2751 | 100.0000 | 1972 |
|  | 2759 | 2753 | 75.3906 |  |
| Printing trade services | 279 | 275 | . .9300 | 1972 |
|  | 279 | 279 | 100.0000 |  |
| Chemicals and allied products: |  |  |  |  |
| Industrial inorganic chemicals . . . . . . . . . . . . . | 281 | 281 | 100.0000 | 1972 |
| Industrial inorganic chemicals, nec. . . . . . . . . | 2819 | 2819 | .100 .000 | 1972 |
|  | 2819 | 2861,9 | . 1621 | 1972 |
|  | 286 | 286 | 99.8709 | 1972 |
| Industrial organic chemicals ...... Industrial organic chemicals, nec. | 2869 | 2861,9 | 96.9608 | 1972 |
| Rubber and miscellaneous plastics products | 30 | 32 | 5.4958 | 1939 |
|  | 30 | 35 | . 1745 |  |
|  | 30 | 30 | 99.6150 |  |
| Hose, belting, gaskets, and packing | 305 | 329 | 27.3135 | 1972 |
|  | 305 | 303,4 | 96.9608 |  |
| Rubber and plastics hose and belting | 3052 | 303,4 | 95.8367 | 1972 |

See footnotes at end of table.

Table 1. Published industries restructured under the 1987 SIC and relationship of employment to the 1972 SIC industries-Continued

| 1987 SIC industry | 1987 SIC code | $\begin{gathered} 1972 \\ \text { SIC } \\ \text { code } \end{gathered}$ | $\begin{gathered} 1972 \text { to } 1987 \\ \text { ratio } \end{gathered}$ | Beginning year for atlemployee series |
| :---: | :---: | :---: | :---: | :---: |
| Nondurable goods-Continued Fabricated rubber products, nec. $\qquad$ |  |  |  |  |
|  | 306 | 355 | 2.1522 | 1972 |
|  | 306 | 303,4 | 3.3092 |  |
|  | 306 | 306 | 100.0000 |  |
|  | 308 | 307 | 99.4734 | 1958 |
| Transportation and public utilties: |  |  |  |  |
| Transportation | - | - | ${ }^{4} 99.9567$ | 1964 |
| Water transportation . ......................... | 44 | 44 | 99.2348 | 1964 |
| Water transportation of freight, nec. | 444 | 443,4 | 88.6249 | 1988 |
|  | 444 | 445 | . 6366 |  |
| Water transportation services . . . . . . . . . . . . . . . | 449 | 445 | 76.2996 | 1988 |
|  | 449 | 446 | 98.5600 |  |
| Air transportation, scheduled | 451 | 451 | 100.0000 | 1988 |
|  | 451 | 452 | 54.5385 |  |
| Freight transportation arrangement . . . . . . . . . . | 473 | 471 | 100.0000 | 1988 |
|  | 473 | 472 | 21.6219 |  |
| Communications and public utilities . . . . . . . . . . . . . | 48,49 | 48,49 | 100.0000 | 1964 |
|  | 48,49 | 48,49 | ${ }^{4} .0433$ |  |
| Radio and television broadcasting | 483 | 483 | 96.1980 | 1958 |
| Television broadcasting stations ........... | 4833 | 4833 | 92.4351 | 1982 |
| Cable and other pay television service . | 484 | 483 | 3.8019 | 1988 |
|  | 484 | 489 | 75.7386 |  |
| Electric, gas, and sanitary services | 49 | 44 | . 7651 | 1964 |
|  | 49 | 49 | 100.0000 |  |
| Sanitary services . | 495 | 446 | 1.4399 | 1972 |
|  | 495 | 495 | 100.0000 |  |
| Wholesale trade | 50-51 | 50.51 | 100.0000 | 1939 |
|  | 50-51 | 52-59 | . 1156 |  |
| Durable goods | 50 | 50 | 100.0000 | 1972 |
|  | 50 | 59 | . 9010 |  |
| Motor vehicles, parts, and supplies | 501 | 501 | 100.0000 | 1972 |
|  | 501 5013 | 593 5013 | 28.0278 94.7311 |  |
| Motor vehicle supplies and new parts . . . . . . . Construction materials, nec | 5013 | 5013 | 94.7311 | 1982 |
| Construction materials, nec . . . . . . . . . . . . . . . . | 5039 | 5039 | 43.9563 | 1988 |
| Professional and commercial equipment | 504 504 | 504 | 31.4240 | 1988 |
|  | 504 5045 | 508 | 48.0348 |  |
| Computers, peripherals and software ........ | 5045 | 5081 | 55.4221 | 1988 |
| Electrical goods ............................. | 506 | 506 | 98.8809 | 1958 |
| Electrical apparatus and equipment .......... | 5063 | 5063 | 71.3835 | 1988 |
| Electronic parts and equipment ... | 5065 | 5065 | 100.0000 | 1988 |
| Machinery, equipment, and supplies | 508 508 | 506 508 | 1.1190 51.9651 | 1982 |
| Industrial machinery and equipment | 5084 | 5063 | 2.1547 | 1982 |
|  | 5084 | 5084 | 100.0000 |  |
| Miscellaneous wholesale trade durable goods | 509 | 504 | 68.5759 | 1988 |
|  | 509 | 509 | 100.0000 |  |
| Retail trade | 52-59 | 52-59 | 99.8844 | 1939 |
|  | 531 | 531 | 97.3542 | 1958 |
| Department stores . . . . . . . . . . . . . . . . . . . . . . Miscellaneous general merchandise stores . . . . | 539 | 531 | 2.6457 | 1988 |
| Automotive dealers, nec. . . . . . . . . . . . . . . . . . . . | 539 | 539 | 100.0000 |  |
|  | 559 | 556,9 | 32.5205 | 1988 |
| Radio, television, and electronic stores .......... | 5731 | 5732 | 66.2163 | 1988 |
| Record and prerecorded tape stores | 5735 | 5733 | 64.8882 | 1988 |
| Miscellaneous retail establishments ... | 59 | 59 | 99.0989 | 1972 |
| Fuel dealers. | 598 | 598 | 99.4440 | 1958 |
| Retail stores, nec | 599 | 598 | . 5559 | 1972 |
|  | 599 | 599 | 100.0000 |  |
| Finance, insurance, and real estate ................ | 60-65,67 | 60-67 | 99.9972 | 1939 |
| Finance | 60-62,67 | 60-62,67 | 100.0000 | 1972 |
|  | 60-62,67 | 66 | 4.7158 |  |
| Depository institutions . . . . . . . . . . . . . . . . . . . . . | 60 | 60 | 100.0000 | 1988 |
|  | 60 | 61 | 59.1658 |  |
| Commercial banks ........................... | 602 | 602 | 98.5649 | 1972 |
| State commercial banks .................. | 6022 | 6022 6023,4 | 97.3501 96.1098 | 1988 |

See footnotes at end of table.

Table 1. Published industries restructured under the 1987 SIC and relationship of employment to the 1972 SIC industries -Continued

| 1987 SIC industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { code } \end{gathered}$ | $\begin{gathered} 1972 \\ \text { SIC } \\ \text { code } \end{gathered}$ | $\begin{aligned} & 1972 \text { to } 1987 \\ & \text { ratio }^{1} \end{aligned}$ | Beginning year for allemployee series |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
|  |  |  |  |  |
| Savings institutions, except Federal. | 603 | 603 | 100.0000 100.0000 |  |
|  | 6036 | 6022 | 2.6498 | 1988 |
|  | 6036 | 603 | 100.0000 |  |
|  | 6036 | 6123 | 100.0000 |  |
|  | 6036 | 6124,5 | 100.0000 |  |
| Credit unions Nondepository institutions | 606 | 614 | 48.2236 | 1988 |
|  | 61 | 61 | 40.8341 | 1988 |
|  | 61 614 | 66 614 | 4.6990 51.7763 | 1988 |
| Personal credit institutions | 614 | 66 | 3.2421 | 1980 |
| Business credit institutions | 615 | 615 | 99.4323 | 1972 |
|  | 615 | 611,3 | 38.6389 |  |
|  | 615 | 66 | 1.4632 |  |
| Commodity contracts brokers, dealers, and exchanges Security and commodity services | 622,3 | 622,3,8 | 29.4979 | 1988 |
|  | 628 | 622,3,8 | 73.7368 | 1988 |
| Insurance | 63,64 | 63 | 100.0000 | 1972 |
|  | 63,64 | 64 | 100.0000 |  |
| Insurance agents, brokers, and services | 64 | 64 | 100.0000 | 1972 |
| Real estate | 65 | 66 65 | 56.2094 100.0000 | 1972 |
| Real estate agents and managers | 65 | 66 | 37.2352 | 1972 |
|  | 653 | 653 | 100.0000 | 1972 |
| Services | 653 | 66 | 37.3684 |  |
|  | - | - | 5.0028 | 1939 |
|  |  |  | ${ }^{5} 100.0000$ |  |
|  | 72 | 72 | 90.7985 | 1958 |
| Personal services . . . . . . . . . . . . . . . Laundry, cleaning, and garment services | 721 | 721 | 100.0000 | 1972 |
| Miscellaneous personal services | 729 | 725,9 | 5.7028 |  |
| Business services ................. | 73 | 72 | 56.8650 1.6354 | 1988 |
|  | 73 | 73 | 82.4314 |  |
| Personnel supply services Help supply services. | 736 | 736 | 96.4391 | 1972 |
|  | 7363 | 7362 | 100.0000 | 1982 |
| Prepackaged software | 7363 | 7369 | 54.5216 |  |
|  | 7372 | 7372 | 28.4660 | 1988 |
| Data processing and preparation | 7374 738 | 7374 | 74.5430 | 1988 |
| Miscellaneous business services | 738 | 735 | 100.0000 | 1988 |
| Detective and armored car services | 738 | 739 | 50.7965 |  |
|  | 7381 | 7393 | 91.8657 | 1982 |
| Motion pictures | 78 78 | 73 | 1.8798 | 1988 |
| Amusement and recreation services | 79 | 72 | 100.0000 7.5660 | 1988 |
|  | 79 | 79 | 99.2701 |  |
| Miscellaneous amusement and recreation services | 799 | 725,9 |  | 1988 |
|  | 799 | 793 | 3.8330 | 1988 |
|  | 799 | 791,9 | 90.9632 |  |
| Health services: |  |  |  |  |
| Offices and clinics of medical doctors | 801 | 801 | 100.0000 | 1972 |
|  | 801 | 808 | 38.9567 |  |
| Offices and clinics of dentists | 802 | 802 | 100.0000 | 1982 |
|  | 802 | 808 | . 2670 |  |
| Nursing and personal care, nec | 8059 | 8059 809 | 47.0887 81.4568 | 1988 |
| Legal services ............... | 81 | 66 | 1.8565 | 1972 |
|  | 81 | 81 | 100.0000 |  |
| Social services: |  |  |  |  |
| Individual and family services | 832 832 | 832 | 100.0000 | 1988 |
|  | 832 84 | 839 79 | 30.4147 |  |
| Museums and botanical and zoological gardens | 84 84 | 79 84 | . 7298 100.0000 | 1988 |
| Engineering and management services | 87 | 73 | 15.6886 | 1988 |
|  | 87 | 89 | 97.7588 |  |
| Research and testing services . . . . . . . . . . . | 873 873 | 739 | 16.7540 | 1988 |
| Management and public relations | 874 | 736 | 100.0000 3.5608 | 1988 |
| Services, nec. | 874 | 739 | 20.5757 |  |
|  | 89 | 89 | 2.2411 | 1988 |

${ }^{1}$ Based on microdata files of dual-coded industries for first quar-
${ }_{2}$ ter small portion of durable goods was reassigned to nondurable goods.
${ }^{3}$ A small portion of nondurable goods was reassigned to durable goods.
${ }_{4}{ }^{\text {A small portion of transportation was reassigned to communica- }}$
tions and public utilities.
${ }^{5}$ Services under the 1987 SIC structure comprise all of the 1972 SIC- based components plus a very small portion of finance, insurance, and real estate

NOTE: Nec is an abbreviation for "not elsewhere classified" and designates broad categories of industries which cannot be more specifically identified.

Table 2. Disposition of employment in industries deleted from the 1987 SIC structure

| 1972 SIC industry | $\begin{gathered} 1972 \\ \text { SIC } \\ \text { code } \end{gathered}$ | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { code } \end{aligned}$ | $\begin{gathered} \text { Disposition } \\ \text { in } \\ 1987 \mathrm{SIC} \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Coal mining . ................................................... | 11,12 | 12 | 100.0000 |
| Crude petroleum, natural gas, and natural gas liquids ......... | 131,2 | $\begin{aligned} & 131 \\ & 132 \end{aligned}$ | $\begin{array}{r} 97.6203 \\ 2.3797 \end{array}$ |
| Aluminum foundries . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 3361 | $\begin{aligned} & 3363 \\ & 3365 \end{aligned}$ | $\begin{aligned} & 44.3646 \\ & 55.6354 \end{aligned}$ |
| Food products machinery . ................................... | 3551 | $\begin{aligned} & 3556 \\ & 3565 \end{aligned}$ | $\begin{aligned} & 65.6950 \\ & 34.3050 \end{aligned}$ |
| Electronic computing equipment ............................... | 3573 | $\begin{array}{r} 3571 \\ 3572 \\ 3575,8,9 \\ 3577 \\ 3695 \end{array}$ | $\begin{array}{r} 72.2830 \\ 7.3603 \\ 3.9089 \\ 14.4659 \\ 1.9818 \end{array}$ |
| Machinery, except electrical, nec . . . . . . . . . . . . . . . . . . . . . . . . . . | 3599 | $\begin{aligned} & 3593 \\ & 3599 \end{aligned}$ | $\begin{array}{r} 6.0696 \\ 93.9304 \end{array}$ |
| Industrial controls . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 3622 | 3625 | 100.0000 |
| Radio and TV communication equipment . . . . . . . . . . . . . . . . . . . . | 3662 | $\begin{array}{r} 3661 \\ 3663 \\ 3669 \\ 3695,9 \\ 3812 \\ 3829 \end{array}$ | $\begin{array}{r} 5.7592 \\ 24.2616 \\ 4.7948 \\ 6.3878 \\ 58.3813 \\ .4153 \end{array}$ |
| Optical instruments and lenses . . . . . . . . . . . . . . . . . . . . . . . . . . | 383 | 382 | 100.0000 |
| Poultry dressing plants ......................................... | 2016 | 2015 | 100.0000 |
| Cookies and crackers . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2052 | 2052,3 | 100.0000 |
| Cane and beet sugar . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2061,2,3 | $\begin{aligned} & 2061 \\ & 2062 \\ & 2063 \end{aligned}$ | $\begin{aligned} & 32.9954 \\ & 26.3063 \\ & 40.6983 \end{aligned}$ |
| Confectionery products . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2065 | $\begin{aligned} & 2064 \\ & 2068 \end{aligned}$ | $\begin{aligned} & 89.1262 \\ & 10.8738 \end{aligned}$ |
| Men's and boys' separate trousers . . . . . . . . . . . . . . . . . . . . . . . | 2327 | 2325 | 100.0000 |
| Men's and boys' work clothing . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2328 | $\begin{aligned} & 2325 \\ & 2326 \end{aligned}$ | $\begin{aligned} & 44.8317 \\ & 55.1683 \end{aligned}$ |
| Paper and pulp mills . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 261,2,6 | 261 262 249 | 7.5684 90.1270 2.3046 |
| Paper coating and glazing . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2641 | $\begin{aligned} & 2671 \\ & 2672 \end{aligned}$ | $\begin{aligned} & 29.6312 \\ & 70.3688 \end{aligned}$ |
| Bags, except textile bags .................................. | 2643 | $\begin{aligned} & 2673 \\ & 2674 \end{aligned}$ | $\begin{aligned} & 63.3756 \\ & 36.6244 \end{aligned}$ |
| Folding paperboard boxes . ................................. | 2651 | 2657 | 100.0000 |
| Sanitary food containers . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 2654 | $\begin{aligned} & 2656 \\ & 2657 \end{aligned}$ | $\begin{aligned} & 69.2511 \\ & 30.7489 \end{aligned}$ |
| Commercial printing, letterpress ............................... | 2751 | 2759 | 100.0000 |
| Gum, wood, and industrial organic chemicals, nec. ............ | 2861,9 | $\begin{aligned} & 2861 \\ & 2819 \\ & 2869 \end{aligned}$ | $\begin{array}{r} 4.2875 \\ 95.1621 \\ 9.505 \end{array}$ |
| Reclaimed rubber, and rubber and plastics hose and belting .... | 303,4 | $\begin{aligned} & 305 \\ & 306 \end{aligned}$ | $\begin{array}{r} 96.9608 \\ 3.0392 \end{array}$ |
| Miscellaneous plastics products .............................. | 307 | $\begin{array}{r} 308 \\ 343 \end{array}$ | $\begin{array}{r} 99.4735 \\ .5265 \end{array}$ |
| Trucking and trucking terminals . ............................. | 421,3 | $\begin{aligned} & 421 \\ & 423 \end{aligned}$ | $\begin{array}{r} 99.6780 \\ .3220 \end{array}$ |
| Local water transportation | 445 | 444 448 449 | $\begin{array}{r} .6367 \\ 22.1007 \\ 77.2626 \end{array}$ |
| Water transportation services . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 446 | $\begin{aligned} & 449 \\ & 495 \end{aligned}$ | $\begin{array}{r} 98.5601 \\ 1.4399 \end{array}$ |
| Air transportation .......................................... | 451,2 | $\begin{aligned} & 451 \\ & 452 \end{aligned}$ | $\begin{array}{r} 96.6738 \\ 3.3262 \end{array}$ |
| Freight forwarding . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 471 | 4731 | 100.0000 |

See note at end of table.

Table 2. Disposition of employment in industries deleted from the 1987 SIC structure-Continued

| 1972 SIC industry | $\begin{gathered} 1972 \\ \text { SIC } \\ \text { code } \end{gathered}$ | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { code } \end{gathered}$ | $\begin{gathered} \text { Disposition } \\ \text { in } \\ 1987 \text { SIC } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| Commercial machines and equipment ........................ | 5081 | $\begin{aligned} & 5044 \\ & 5045 \\ & 5046 \end{aligned}$ | 35.6186 <br> 55.4221 <br> 8.9593 |
| Professional equipment and supplies ......................... | 5086 | $\begin{aligned} & 5047 \\ & 5048 \\ & 5049 \end{aligned}$ | $\begin{aligned} & 65.0666 \\ & 11.8969 \\ & 23.0366 \end{aligned}$ |
| Car dealers ................................................... . | 551,2 | $\begin{array}{r} 551 \\ 552 \end{array}$ | $\begin{array}{r} 94.1289 \\ 5.8711 \end{array}$ |
| Radio and television stores .................................. | 5732 | $\begin{aligned} & 5731 \\ & 5734 \end{aligned}$ | $\begin{aligned} & 66.2163 \\ & 33.7837 \end{aligned}$ |
| Music stores .................................................. | 5733 | $\begin{aligned} & 5735 \\ & 5736 \end{aligned}$ | $\begin{aligned} & 64.8882 \\ & 35.1118 \end{aligned}$ |
| State banks, not Federal Reserve . . . . . . . . . . . . . . . . . . . . . . . . . . | 6023,4 | $\begin{aligned} & 6022 \\ & 6036 \end{aligned}$ | $\begin{array}{r} 96.1098 \\ 3.8902 \end{array}$ |
| Savings and loan associations | 612 | 603 | 100.0000 |
| State associations, insured. . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 6123 | 6036 | 100.0000 |
| Combined real estate, insurance, etc . . . . . . . . . . . . . . . . . . . . | 66 | 61 64 65 81 | $\begin{array}{r} 4.6990 \\ 56.2094 \\ 37.2352 \\ 1.8565 \end{array}$ |
| Temporary help supply services ............................... . | 7362 | 7363 | 100.0000 |
| Miscellaneous business services . . . . . . . . . . . . . . . . . . . . . . . . . | 739 | $\begin{aligned} & 735 \\ & 738 \\ & 784 \\ & 873 \\ & 874 \end{aligned}$ | $\begin{array}{r} 7.1406 \\ 50.7965 \\ 4.7332 \\ 16.7540 \\ 2.5757 \end{array}$ |
| Management and public relations . . . . . . . . . . . . . . . . . . . . . . . | 7392 | $\begin{aligned} & 8732 \\ & 8741 \\ & 8742 \\ & 8743 \\ & \mathbf{8 7 4 8} \end{aligned}$ | 16.6894 <br> 41.1894 <br> 26.7912 <br> 5.7954 <br> 9.5347 |
| Detective and protective services . ........................... . | 7393 | $\begin{aligned} & 7381 \\ & 7382 \end{aligned}$ | $\begin{array}{r} 91.8657 \\ 8.1343 \end{array}$ |
| Equipment rental and leasing . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 7394 | $\begin{aligned} & 7353 \\ & 7359 \\ & 7841 \end{aligned}$ | 15.3597 44.7777 39.8626 |
| Outpatient care facilities . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 808 | $\begin{aligned} & 801 \\ & 802 \\ & 809 \end{aligned}$ | $\begin{array}{r} 38.9567 \\ .2671 \\ 60.7762 \end{array}$ |

NOTE: Nec is an abbreviation for "not elsewhere classified" and designates broad categories of industries which cannot be more specifically identified.

Table 3. Differences between nonfarm employment benchmarks and estimates by industry, March 1989
(In thousands)

| Industry | 1972 SICbased published estimate (1) | 1987 SICbased estimate <br> (2) | Benchmark (3) | SIC revision effect (2-1) <br> (4) | Benchmark effect (3-2) <br> (5) | Difference between benchmark and estimate (3-1) (6) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total ............................. | 107,017 | 107,073 | 107,026 | 56 | -47 | 9 |
| Total private . . . . . . . . . . . . . . . . . . . | 89,052 | 89,108 | 89,015 | 56 | -93 | -37 |
| Goods-producing | 25,095 | 25,101 | 24,815 | 6 | -286 | -280 |
| Mining ${ }^{1}$ | 702 | 703 | 678 | 1 | -25 | -24 |
| Oil and gas extraction | 391 | 391 | 374 | 0 | -17 | -17 |
| Construction ${ }^{1}$ | 4,837 | 4,813 | 4,741 | -24 | . 72 | -96 |
| General building contractors . . . . . . . . . . . | 1,287 | 1,287 | 1,239 | 0 | -48 | -48 |
| Manufacturing | 19,556 | 19,585 | 19,396 | 29 | -189 | -160 |
| Durable goods ${ }^{2}$ | 11,550 | 11,538 | 11,448 | -12 | -90 | -102 |
| Lumber and wood products ${ }^{2}$ | 755 | 767 | 746 | 12 | -21 | -9 |
| Furniture and fixtures ...... | 535 | 535 | 530 | 0 | -5 | -5 |
| Stone, clay, and glass products ${ }^{2}$. ${ }^{\text {a }}$. . | 592 | 560 | 559 | -32 | -1 | -33 |
| Primary metal industries Blast furnaces and basic steel | 790 | 789 | 781 | -1 | -8 | -9 |
| products . ....................... | 276 | 276 | 281 | 0 | 5 | 5 |
| Fabricated metal products ${ }^{2}$ | 1,451 | 1,454 | 1,454 | 3 | 0 | 3 |
| Industrial machinery and equipment ${ }^{2}$. . | 2,147 | 2,166 | 2,136 | 19 | -30 | -11 |
| Electronic and other electrical equipment ${ }^{2}$ | 2,052 | 1,760 | 1,762 | -292 | 2 | -290 |
| Transportation equipment ${ }^{2}$......... | 2,067 | 2,045 | 2,071 | -22 | 26 | 4 |
| Motor vehicles and equipment ...... | 869 | 869 | 871 | 0 | 2 | 2 |
| Instruments and related products ${ }^{2} \ldots$. . | 774 | 1,075 | 1,027 | 301 | -48 | 253 |
| Miscellaneous manufacturing . . . . . . . . | 388 | 389 | 383 | 1 | -6 | -5 |
| Nondurable goods ${ }^{2}$ | 8,006 | 8,047 | 7,948 | 41 | -99 | -58 |
| Food and kindred products | 1,599 | 1,598 | 1,583 | -1 | -15 | -16 |
| Tobacco products . | 55 | 55 | 51 | 0 | -4 | -4 |
| Textile mill products .... | 727 | 727 | 725 | 0 | -2 | -2 |
| Apparel and other textile products . . . . . | 1,102 | 1,106 | 1,086 | 4 | -20 | -16 |
| Paper and allied products ${ }^{2}$ | 693 | 689 | 693 | -4 | 4 | 0 |
| Printing and publishing . . . . . . . . . . . . . | 1,600 | 1,601 | 1,560 | 1 | -41 | -40 |
| Chemicals and allied products ........ | 1,084 | 1,085 | 1,068 | 1 | -17 | -16 |
| Petroleum and coal products ......... | 158 | 158 | 153 | 0 | -5 | -5 |
| Rubber and miscellaneous plastics products ${ }^{2}$ | 846 | 886 | 893 | 40 | 7 | 47 |
| Leather and leather products . . . . . . . . | 142 | 142 | 138 | 0 | -4 | -4 |
| Service-producing . ........................ | 81,922 | 81,972 | 82,211 | 50 | 239 | 289 |
| Transportation and public utilities ${ }^{2}$ | 5,607 | 5,646 | 5,549 | 39 | -97 | -58 |
| Transportation ${ }^{2}$... | 3,404 | 3,443 | 3,341 | 39 | -102 | -63 |
| Communications and public utilities ${ }^{2}$ | 2,203 | 2,203 | 2,208 | 0 | 5 | 5 |
| Wholesale trade ${ }^{2}$ | 6,154 | 6,145 | 6,195 | -9 | 50 | 41 |
| Durable goods ${ }^{2}$ | 3,658 | 3,654 | 3,676 | -4 | 22 | 18 |
| Nondurable goods ..................... | 2,496 | 2,491 | 2,519 | -5 | 28 | 23 |
| Retail trade ${ }^{12}$ | 19,059 | 19,023 | 19,115 | -36 | 92 | 56 |
| General merchandise stores | 2,398 | 2,386 | 2,452 | -12 | 66 | 54 |
| Food stores | 3,184 | 3,184 | 3.121 | 0 | -63 | -63 |
| Auto dealers and service stations | 2,129 | 2,126 | 2,084 | -3 | -42 | -45 |
| Eating and drinking places ............. | 6,164 | 6,164 | 6,264 | 0 | 100 | 100 |
| Finance, insurance, and real estate ${ }^{2} \ldots .$. . | 6,723 | 6,714 | 6,639 | -9 | -75 | -84 |
|  | 3,306 | 3,304 | 3,288 | -2 | -16 | -18 |
| Insurance ${ }^{2}$ | 2,115 | 2,115 | 2,089 | 0 | -26 | -26 |
| Real estate ${ }^{2}$ | 1,302 | 1,295 | 1,262 | -7 | -33 | -40 |
| Services ${ }^{12}$. . . . . . . . . . . . . . . . . . . . . . . . . . | 26,414 | 26,479 | 26,702 | 65 | 223 | 288 |
| Business sevices ${ }^{2}$ | 5,678 | 4,750 | 4,828 | -928 | 78 | -850 |
| Health services | 7,480 | 7,476 | 7,401 | -4 | -75 | -79 |
| Government | 17,965 | 17,965 | 18,011 | 0 | 46 | 46 |
| Federal | 2,976 | 2,976 | 2,976 | 0 | 0 | 0 |
| State | 4,213 | 4,213 | 4,257 | 0 | 44 | 44 |
| Local. | 10,776 | 10,776 | 10,778 | 0 | 2 | 2 |

${ }^{1}$ Includes other industries not shown separately.
${ }^{2}$ Industry scope changed due to SIC revision. Other industries were not
directly affected by the SIC revision but some estimates changed as a result of restratification within the industry.

Table 4. Percent differences between nonfarm employment benchmarks and estimates by industry division, March 1982-89

| Industry division | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | -0.1 | (1) | 0.4 | (1) | -0.5 | (1) | -0.3 | (1) |
| Mining | 2.2 | -5.4 | -1.6 | -3.1 | -1.2 | -3.2 | -1.7 | -3.7 |
| Construction | (1) | . 5 | 3.1 | 1.4 | -. 6 | -1.5 | -2.2 | -1.5 |
| Manufacturing | (1) | -1.2 | -. 9 | -. 5 | -1.1 | -. 5 | -. 7 | -1.0 |
| Transportation and public utilities | . 4 | . 2 | . 2 | -1.0 | -. 3 | (1) | -. 7 | -1.7 |
| Trade . . . . . . . . . . . . . . . . . . | -1.2 | (1) | 1.3 | -. 3 | -. 9 | . 9 | -. 6 | . 6 |
| Finance, insurance, and real estate | -. 2 | (1) | . 4 | . 5 | -. 1 | -. 5 | -. 1 | -1.1 |
| Services | .3 | -. 1 | . 4 | . 1 | . 3 | . 1 | . 5 | . 8 |
| Government . | . 1 | . 7 | . 1 | . 8 | -. 4 | -. 3 | -. 1 | . 3 |

${ }^{1}$ Less than 0.05 percent.

Table 5. Differences in seasonally adjusted levels and over-the-month changes, total nonfarm employment, January 1989-May 1990 (In thousands)

|  | Levels |  |  | Over-the-month changes |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | As previously published | As revised | Difference | As previously published | As revised | Difference |
| 1989: |  |  |  |  |  |  |
| January . | 107,442 | 107,430 | -12 | 345 | 359 | 14 |
| February | 107,711 | 107,648 | -63 | 269 | 218 | -51 |
| March. . | 107,888 | 107,811 | -77 | 177 | 163 | -14 |
| April. | 108,101 | 107,988 | -113 | 213 | 177 | -36 |
| May | 108,310 | 108,135 | -175 | 209 | 147 | -62 |
| June | 108,607 | 108,364 | -243 | 297 | 229 | -68 |
| July | 108,767 | 108,490 | -277 | 160 | 126 | -34 |
| August | 108,887 | 108,628 | -259 | 120 | 138 | 18 |
| September | 109,096 | 108,868 | -228 | 209 | 240 | 31 |
| October | 109,171 | 108,980 | -191 | 75 | 112 | 37 |
| November | 109,452 | 109,245 | -207 | 281 | 265 | -16 |
| December | 109,570 | 109,383 | -187 | 118 | 138 | 20 |
| 1990: |  |  |  |  |  |  |
| January . | 109,931 | 109,654 | -277 | 361 | 271 | -90 |
| February | 110,304 | 109,958 | -346 | 373 | 304 | -69 |
| March . | 110,427 | 110,122 | -305 | 123 | 164 | 41 |
| April. | 110,401 | 110,177 | -224 | -26 | 55 | 81 |
| May | 110,770 | 110,617 | -153 | 369 | 440 | 71 |

Table 6. Distribution of published 3-digit SIC industries by size of industry and percent difference between employment benchmarks and estimates, March 1989

| Percent difference | Total number of industries | Size of industry (number of employees) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Under } \\ & 50,000 \end{aligned}$ | $\begin{gathered} 50,000 \\ \text { to } \\ 99,999 \end{gathered}$ | $\begin{gathered} 100,000 \\ \text { to } \\ 199,999 \end{gathered}$ | 200,000 and over |
| Total | 265 | 38 | 46 | 69 | 112 |
| 0-0.9 | 73 | 10 | 14 | 20 | 29 |
| 1.0-2.9 | 102 | 13 | 13 | 23 | 53 |
| 3.0-4.9 | 47 | 9 | 9 | 15 | 14 |
| 5.0 and over | 43 | 6 | 10 | 11 | 16 |

Table 7. Differences between hours and earnings benchmarks and estimates, selected industries, March 1989

| Industry | Average weekly hours |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1972 SICbased published estimate (1) | 1987 SIC. based estimate <br> (2) | Benchmark (3) | SIC revision effect (3-2) (4) | Benchmark effect (3-2) <br> (5) | Difference between benchmark and estimate (3-1) (6) |
| Total private . . . . . . . . . . . . . . . . . . . | 34.4 | 34.4 | 34.4 | 0.0 | 0.0 | 0.0 |
| Mining | 42.0 | 42.1 | 42.1 | . 1 | . 0 | . 1 |
| Construction | 37.4 | 37.4 | 37.4 | . 0 | . 0 | . 0 |
| Manufacturing | 41.0 | 40.9 | 41.0 | -. 1 | . 1 | . 0 |
| Durable goods | 41.7 | 41.7 | 41.7 | . 0 | . 0 | . 0 |
| Lumber and wood products ....... | 39.8 | 39.8 | 39.8 | . 0 | . 0 | . 0 |
| Furniture and fixtures | 39.6 | 39.6 | 39.6 | . 0 | . 0 | . 0 |
| Stone, clay, and glass products .... | 41.9 | 41.9 | 41.9 | . 0 | . 0 | . 0 |
| Primary metal industries .......... | 43.5 | 43.4 | 43.4 | -. 1 | . 0 | -. 1 |
| Fabricated metal products ........ | 41.7 | 41.7 | 41.7 | . 0 | . 0 | . 0 |
| Industrial machinery and equipment | 42.6 | 42.7 | 42.7 | . 1 | . 0 | . 1 |
| Electronic and other electrical equipment | 40.5 | 40.4 | 40.5 | -. 1 | . 1 | . 0 |
| Transportation equipment . ........ | 43.3 | 43.2 | 43.2 | -. 1 | . 0 | -. 1 |
| Instruments and related products .. | 41.2 | 41.1 | 41.1 | -. 1 | . 0 | -. 1 |
| Miscellaneous manufacturing ...... | 39.4 | 39.3 | 39.3 | -. 1 | . 0 | -. 1 |
| Nondurable goods . ................. | 39.9 | 39.9 | 39.9 | . 0 | . 0 | . 0 |
| Food and kindred products . . . . . . . | 39.9 | 39.9 | 39.9 | . 0 | . 0 | . 0 |
| Tobacco products . . . . . . . . . . . . . . . | 36.3 | 36.3 | 36.3 | . 0 | . 0 | . 0 |
| Textile mill products . . . . . . . . . . . . | 41.0 | 40.9 | 40.9 | -. 1 | . 0 | -. 1 |
| Apparel and other textile products . . | 36.9 | 36.9 | 36.9 | . 0 | . 0 | . 0 |
| Paper and allied products . ........ | 43.0 | 42.9 | 42.9 | -. 1 | . 0 | -. 1 |
| Printing and publishing . . . . . . . . . . | 37.9 | 38.0 | 38.0 | . 1 | . 0 | . 1 |
| Chemicals and allied products ..... | 42.3 | 42.3 | 42.3 | . 0 | . 0 | . 0 |
| Petroleum and coal products ...... | 43.2 | 43.2 | 43.2 | . 0 | . 0 | . 0 |
| Rubber and miscellaneous plastics products | 41.5 | 41.5 | 41.5 | . 0 | . 0 | . 0 |
| Leather and leather products ...... | 37.4 | 37.4 | 37.4 | . 0 | . 0 | . 0 |
| Transportation and public utilities ........ | 39.2 | 38.6 | 38.6 | -. 6 | . 0 | -. 6 |
| Wholesale trade . ........................ | 37.9 | 37.9 | 37.9 | . 0 | . 0 | . 0 |
| Retail trade ............................ | 28.5 | 28.5 | 28.5 | . 0 | . 0 | . 0 |
| Finance, insurance, and real estate ...... | 35.8 | 35.7 | 35.7 | -. 1 | . 0 | -. 1 |
| Services . . . . . . . . . . . . . . . . . . . . . . . . . | 32.4 | 32.4 | 32.4 | . 0 | . 0 | . 0 |

Table 7. Differences between hours and earnings benchmarks and estimates, selected industries, March 1989 -Continued

| Industry | Average hourly earnings |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1972 SICbased published estimate (1) | 1987 SICbased estimate <br> (2) | Benchmark (3) | SIC revision effect (2-1) (4) | Benchmark effect (3-2) <br> (5) | Difference between benchmark and estimate (3-1) (6) |
| Total private . . . . . . . . . . . . . . . . . . . . | \$9.56 | \$9.55 | \$9.55 | \$-0.01 | \$0.00 | \$-0.01 |
| Mining | 13.15 | 13.17 | 13.24 | . 02 | . 07 | . 09 |
| Construction .......................... | 13.26 | 13.32 | 13.38 | . 06 | . 06 | . 12 |
| Manufacturing | 10.41 | 10.41 | 10.42 | . 00 | . 01 | . 01 |
| Durable goods . . . . . . . . . . . . . . . . . | 10.93 | 10.94 | 10.95 | . 01 | . 01 | . 02 |
| Lumber and wood products | 8.68 | 8.71 | 8.67 | . 03 | -. 04 | . 01 |
| Furniture and fixtures . . . . . . . | 8.13 | 8.13 | 8.14 | . 00 | . 01 | . 01 |
| Stone, clay, and glass products .... | 10.62 | 10.72 | 10.72 | . 10 | . 00 | . 10 |
| Primary metal industries | 12.27 | 12.27 | 12.33 | . 00 | . 06 | . 06 |
| Fabricated metal products ........ | 10.47 | 10.47 | 10.50 | . 00 | . 03 | . 03 |
| Industrial machinery and equipment | 11.25 | 11.32 | 11.32 | . 07 | . 00 | . 07 |
| Electronic and other electrical equipment | 10.30 | 9.98 | 9.99 | -. 32 | . 01 | -. 31 |
| Transportation equipment . ........ | 13.65 | 13.64 | 13.62 | -. 01 | -. 02 | -. 03 |
| Instruments and related products .. | 10.17 | 10.76 | 10.70 | . 59 | -. 06 | . 53 |
| Miscellaneous manufacturing ...... | 8.23 | 8.21 | 8.20 | -. 02 | -. 01 | -. 03 |
| Nondurable goods ................. | 9.66 | 9.66 | 9.68 | . 00 | . 02 | . 02 |
| Food and kindred products . . . . . . . | 9.33 | 9.36 | 9.39 | . 03 | . 03 | . 06 |
| Tobacco products . . . . . . . . . . . . . . | 15.34 | 15.34 | 15.32 | . 00 | -. 02 | -. 02 |
| Textile mill products . . . . | 7.59 | 7.59 | 7.59 | . 00 | . 00 | . 00 |
| Apparel and other textile products . . | 6.34 | 6.33 | 6.34 | -. 01 | . 01 | . 00 |
| Paper and allied products . . . . . . . . | 11.84 | 11.84 | 11.87 | . 00 | . 03 | . 03 |
| Printing and publishing. | 10.79 | 10.78 | 10.80 | -. 01 | . 02 | . 01 |
| Chemicals and allied products ..... | 12.91 | 12.93 | 12.95 | . 02 | . 02 | . 04 |
| Petroleum and coal products ...... | 15.46 | 15.46 | 15.43 | . 00 | . 03 | . 03 |
| Rubber and miscellaneous plastics products | 9.33 | 9.39 | 9.39 | . 06 | . 00 | . 06 |
| Leather and leather products ...... | 6.54 | 6.54 | 6.56 | . 00 | . 02 | . 02 |
| Transportation and public utilities | 12.46 | 12.47 | 12.49 | . 01 | . 02 | . 03 |
| Wholesale trade ....... | 10.21 | 10.23 | 10.24 | . 02 | . 01 | . 03 |
| Retail trade | 6.48 | 6.47 | 6.47 | -. 01 | . 00 | -. 01 |
| Finance, insurance, and real estate | 9.43 | 9.40 | 9.40 | -. 03 | . 00 | -. 03 |
| Services . . . . . . . . . . . . . . . . . . . . . . . . . . | 9.29 | 9.27 | 9.27 | -. 02 | . 00 | -. 02 |

Table 8. Employment benchmarks for industries not published monthly, March 1982-89
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC Code } \end{gathered}$ | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total |  | 89,566 | 88,232 | 92,587 | 96,042 | 98,150 | 100,427 | 103,834 | 107,026 |
| Total private |  | 73,370 | 72,043 | 76,371 | 79,446 | 81,204 | 83,173 | 86,180 | 89,015 |
| Goods-producing |  | 24,056 | 22,370 | 24,017 | 24,469 | 24,192 | 24,037 | 24,565 | 24,815 |
| Mining |  | 1,205 | 945 | 952 | 933 | 832 | 696 | 711 | 678 |
| Lead and zinc ores ...................................................................... | 103 | 5.9 | 4.0 | 4.0 | 3.3 | 2.9 | 2.4 | 2.0 | 2.3 |
| Gold and silver ores | 104 | 8.9 | 8.6 | 10.5 | 9.8 | 10.4 | 12.1 | 16.2 | 19.5 |
| Other metal ores and mining services | 106,8,9 | 25.5 | 14.0 | 13.3 | 11.4 | 9.1 | 8.3 | 8.6 | 10.2 |
| Bituminous coal and lignite-surface .... | 1221 | ( ${ }^{\text {( })}$ | (1) | () | ${ }^{(1)}$ | (') | ${ }^{(1)}$ | 59.7 | 57.3 |
| Bituminous coal-underground .......... | 1222 | ${ }^{(1)}$ | () | (') | (') | (') | ${ }^{(1)}$ | 81.2 | 78.4 |
| Anthracite mining and coal mining services | 123,4 | (') | (') | (') | (') | (') | (') | 10.9 | 9.5 |
| Natural gas liquids ............................. | 132 | 8.4 | 6.7 | 6.6 | 6.6 | 6.1 | 5.7 | 5.0 | 4.7 |
| Clay, ceramic, and refractory minerals | 145 | 9.4 | 8.1 | 8.4 | 8.6 | 8.4 | 7.9 | 8.3 | 8.3 |
| Dimension stone and other nonmetallic minerals | 141,8,9 | 9.8 | 9.2 | 9.9 | 9.5 | 10.0 | 10.8 | 11.1 | 10.0 |
| Construction |  | 3,638 | 3,469 | 3,914 | 4,241 | 4,415 | 4,531 | 4,686 | 4,741 |
| Bridge, tunnel, and elevated highway ............................................ | 1622 | (') | (') | ${ }^{1}$ ) | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{(1)}$ | 43.9 | 43.8 |
| Water, sewer, and utility lines ... | 1623 | (') | (') | (') | (') | ${ }^{(1)}$ | (') | 199.1 | 203.6 |
| Heavy construction, nec ................................................................ | 1629 | ${ }^{(1)}$ | (') | ${ }^{(1)}$ | (') | ${ }^{(1)}$ | $\left.{ }^{1}\right)$ | 235.2 | 246.1 |
| Masonry and other stonework ....................................................... | 1741 | (') | (') | (') | (') | (1) | (1) | 155.5 | 151.7 |
| Plastering, drywall, and insulation .................................................. | 1742 | ${ }^{1}$ (1) | ${ }^{(1)}$ | (') | (') | ${ }^{(1)}$ | (1) | 250.3 | 257.6 |
| Terrazzo, tile, marble, and mosaic work ......................................... | 1743 | (') | (1) | $\left.{ }^{1}\right)$ | (') | () | (') | 34.8 | 36.2 |
| Carpentry work ............................................................................. | 1751 | ${ }^{1}$ () | (1) | (') | (') | ${ }^{(1)}$ | (') | 132.6 | 149.5 |
| Floor laying and floor work, nec | 1752 | (') | (') | ${ }^{(1)}$ | (') | (') | (1) | 45.9 | 47.8 |
| Concrete work .............................................................................. | 177 | (') | (') | ${ }^{(1)}$ | $\left.{ }^{( }\right)$ | (') | () | 177.6 | 190.9 |
| Water well drilling | 178 | 16.9 | 14.6 | 15.7 | 16.1 | 16.2 | 16.8 | 17.6 | 18.8 |
| Miscellaneous special trade contractors ........................................ | 179 | 336.8 | 314.2 | 353.1 | 393.0 | 416.4 | 429.6 | 462.5 | 472.2 |
| Structural steel erection | 1791 | $\left.{ }^{1}\right)$ | ( ${ }^{4}$ | ${ }^{(1)}$ | (') | ${ }^{1}$ ) | ${ }^{1}$ ) | 73.3 | 75.0 |
| Glass and glazing work .............................................................. | 1793 | (') | (1) | (') | (') | (') | () | 40.0 | 39.4 |
| Excavation work ......................................................................... | 1794 | (') | ${ }^{(1)}$ | (') | (') | (') | (') | 109.7 | 104.9 |
| Wrecking, demolition, and other special trade contractors .............. | 1795,6,9 | (') | (') | (') | (') | (') | (') | 239.5 | 252.9 |
| Manufacturing |  | 19,213 | 17,956 | 19,151 | 19,295 | 18,945 | 18,810 | 19,168 | 19,396 |
| Durable goods ............................................................................ |  | 11,427 | 10,399 | 11,321 | 11,534 | 11,248 | 11,072 | 11,270 | 11,448 |
| Lumber and wood products: |  |  |  |  |  |  |  |  |  |
| Special product sawmills, nec .................................................. | 2429 | 3.5 | 3.6 | 4.1 | 3.1 | 2.7 | 3.7 | 3.4 | 3.5 |
| Structural wood members, nec | 2439 | 11.6 | 14.0 | 19.0 | 19.1 | 22.6 | 26.3 | 26.5 | 27.8 |
| Nailed wood boxes and shook | 2441 | 5.9 | 5.3 | 5.6 | 5.5 | 5.4 | 5.8 | 5.5 | 4.9 |
| Wood pallets and skids ............................................................ | 2448 | 23.0 | 21.6 | 25.8 | 26.9 | 26.3 | 27.5 | 29.9 | 31.8 |
| Wood containers, nec . | 2449 | 9.2 | 8.8 | 8.7 | 8.3 | 8.2 | 8.0 | 7.5 | 7.9 |
| Prefabricated wood buildings | 2452 | 16.0 | 15.8 | 19.0 | 18.6 | 19.7 | 22.0 | 22.5 | 21.8 |
| Wood preserving | 2491 | 11.8 | 11.8 | 12.3 | 13.0 | 12.5 | 12.6 | 12.7 | 12.8 |
| Reconstituted wood products. | 2493 | (') | (') | (') | (') | (') | ( ${ }^{\text {1 }}$ | 15.8 | 17.1 |
| Wood products, nec ................................................................... | 2499 | 56.9 | 55.3 | 58.1 | 55.5 | 56.2 | 58.0 | 62.3 | 59.1 |
| Furniture and fixtures: |  |  |  |  |  |  |  |  |  |
| Wood television and radio cabinets, and household furniture, nec $\qquad$ | 2517,9 | 12.1 | 11.1 | 13.4 | 13.9 | 14.0 | 13.8 | 12.7 | 14.3 |
| Wood office furniture | 2521 | 24.6 | 23.9 | 28.4 | 32.0 | 31.4 | 32.2 | 35.4 | 35.5 |
| Office furniture, except wood ................................................... | 2522 | ${ }^{(1)}$ | (') | ${ }^{(1)}$ | (') |  |  | 35.7 | 36.6 |
| Wood partitions and fixtures. | 2541 | 29.8 | 28.3 | 33.9 | 36.7 | 38.8 | 39.8 | 43.3 | 43.2 |
| Partitions and fixtures, except wood ......................................... | 2542 | (') | $\left.{ }^{( }\right)$ | $\left.{ }^{( }\right)$ | (') | ${ }^{(1)}$ | (') | 34.1 | 35.5 |
| Drapery hardware and blinds and shades .................................. | 2591 | 16.4 | 16.9 | 20.4 | 20.5 | 22.3 | 21.7 | 22.1 | 22.0 |
| Furniture and fixtures, nec ....................................................... | 2599 | (') | (') | (') | ${ }^{(1)}$ | (') | $\left.{ }^{1}\right)$ | 12.7 | 14.0 |
| Stone, clay, and glass products: |  |  |  |  |  |  |  |  |  |
| Brick and structural clay tile ..................................................... | 3251 | 13.0 | 13.9 | 16.7 | 16.5 | 17.1 | 17.3 | 17.3 | 16.7 |
| Clay refractories ..................................................................... | 3255 | 9.7 | 7.0 | 8.1 | 7.4 | 7.0 | 6.4 | 7.5 | 7.7 |
| Ceramic tile and structural clay products, nec ... | 3253,9 | 11.0 | 11.3 | 12.4 | 12.4 | 12.3 | 13.0 | 13.4 | 13.5 |
| Vitreous plumbing fixtures | 3261 | 8.5 | 8.8 | 10.0 | 9.5 | 10.3 | 9.8 | 9.6 | 9.5 |
| Vitreous and semivitreous table and kitchenware | 3262,3 | 9.1 | 7.7 | 7.4 | 6.7 | 7.1 | 7.1 | 5.8 | 5.8 |
| Porcelain electrical supplies. | 3264 | 12.3 | 11.1 | 11.4 | 12.2 | 10.7 | 10.7 | 11.3 | 11.7 |
| Pottery products, nec | 3269 | 11.3 | 10.5 | 11.8 | 10.7 | 10.3 | 10.7 | 12.1 | 13.2 |
| Lime ........... | 3274 | 6.4 | 5.3 | 5.7 | 5.4 | 5.3 | 5.5 | 5.4 | 5.2 |
| Gypsum products | 3275 | 11.4 | 11.2 | 13.5 | 14.3 | 14.2 | 13.8 | 14.4 | 14.2 |
| Cut stone and stone products. | 328 | 10.3 | 10.7 | 11.2 | 12.0 | 12.4 | 12.6 | 13.2 | 13.9 |
| Minerals, ground or treated | 3295 | 14.6 | 12.8 | 13.4 | 13.5 | 12.5 | 12.0 | 12.2 | 12.8 |
| Nonclay refractories ....... | 3297 | 9.9 | 7.3 | 8.0 | 8.2 | 8.1 | 7.1 | 7.8 | 8.4 |
| Nonmetalic mineral products, nec ........................................... | 3299 | 6.5 | 6.3 | 7.2 | 7.1 | 7.1 | 7.2 | 7.8 | 8.1 |

See footnotes at end of table.

Table 8. Employment benchmarks for industries not published monthly, March 1982-89—Continued
(In thousands)

| Industry | 1987 SIC Code | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |
| Primary metal industries: |  |  |  |  |  |  |  |  |  |
| Electrometallurgical products. | 3313 | 11.2 | 8.2 | 10.2 | 9.6 | 9.0 | 7.6 | 7.9 | 6.1 |
| Steel wire and related products ................................................ | 3315 | 19.3 | 16.7 | 18.6 | 18.6 | 18.7 | 19.0 | 19.2 | 19.5 |
| Cold finishing of steel shapes | 3316 | 15.5 | 13.5 | 15.4 | 15.8 | 15.6 | 15.6 | 16.6 | 19.0 |
| Steel investment foundries | 3324 | 12.3 | 10.9 | 11.6 | 13.3 | 13.1 | 13.6 | 14.6 | 15.1 |
| Primary copper | 3331 | 12.7 | 10.6 | 9.2 | 7.0 | 5.4 | 5.5 | 5.3 | 5.5 |
| Primary nonferrous metals, nec | 3339 | 16.2 | 13.8 | 15.0 | 15.3 | 13.1 | 12.3 | 12.5 | 14.3 |
| Secondary nonferrous metals. | 334 | 21.3 | 18.0 | 19.6 | 19.7 | 18.1 | 16.9 | 17.9 | 18.5 |
| Aluminum extruded products .................................................... | 3354 | 29.2 | 28.2 | 30.8 | 33.0 | 32.6 | 33.6 | 33.4 | 31.7 |
| Aluminum and nonferrous rolling and drawing, nec ...................................................... | 3355,6 | 24.5 | 19.7 | 20.4 | 19.8 | 19.5 | 18.6 | 18.0 | 18.5 |
| Aluminum die-castings .............................................................. | 3363 | ( ${ }^{\text {( }}$ | (') | (1) | (') | (') | (') | 23.9 | 29.3 |
| Nonferrous die-castings, except aluminum ................................. | 3364 | (') | (') | (') | () | (1) | (') | 13.6 | 13.0 |
| Copper founderies .................................... | 3366 | (1) | (1) | (') | (1) | (') | (') | 11.0 | 11.4 |
| Nonferrous foundries, nec | 3369 | (') | (') | (1) | (') | (') | (') | 8.7 | 9.2 |
| Miscellaneous primary metal products | 339 | 24.9 | 21.6 | 24.5 | 25.4 | 24.9 | 24.9 | 26.7 | 27.8 |
| Metal heat treating .......................... | 3398 | 14.1 | 11.3 | 12.7 | 14.1 | 13.8 | 14.0 | 14.8 | 15.8 |
| Primary metal products, nec .................................................. | 3399 | 10.8 | 10.3 | 11.8 | 11.3 | 11.1 | 10.9 | 11.9 | 12.0 |
| Fabricated metal products: |  |  |  |  |  |  |  |  |  |
| Metal barrels, drums, and pails ................................................ | 3412 | 12.1 | 11.9 | 11.4 | 11.8 | 11.1 | 10.5 | 10.4 | 10.3 |
| Cutlery . | 3421 | 13.4 | 13.2 | 13.0 | 12.7 | 12.1 | 11.1 | 11.0 | 11.4 |
| Metal sanitary ware | 3431 | 9.6 | 8.7 | 9.8 | 10.6 | 11.2 | 10.8 | 13.2 | 13.6 |
| Prefabricated metal buildings ................................................... | 3448 | 25.0 | 20.6 | 22.7 | 24.9 | 24.8 | 23.8 | 24.9 | 25.8 |
| Miscellaneous metal work ... | 3449 | (') | (') | (') | (') | (') | (') | 17.4 | 15.5 |
| Nonferrous forgings, crowns, and closures ............................... | 3463,6 | 11.7 | 10.6 | 10.5 | 10.9 | 11.1 | 10.9 | 12.7 | 12.7 |
| Small arms, small arms ammunition, and other ordnance and accessories, nec | 3482,4,9 | 37.7 | 35.8 | 34.6 | 36.6 | 32.7 | 33.0 | 33.7 | 31.7 |
| Industrial valves | 3491 | (') | ( ${ }^{\text {( })}$ | (') | ${ }^{(1)}$ | (1) | (') | 25.4 | 27.0 |
| Fluid power valves and hose fittings | 3492 | (') | (') | (') | (1) | (1) | (') | 26.5 | 29.4 |
| Steel springs, except wire ................ | 3493 | 5.8 | 4.9 | 5.6 | 6.6 | 5.9 | 5.9 | 6.3 | 6.2 |
| Wire springs | 3495 | 13.1 | 11.9 | 13.7 | 14.7 | 13.5 | 13.2 | 13.5 | 13.7 |
| Fabricated pipe and fittings ..................................................... | 3498 | 31.0 | 21.7 | 22.9 | 22.5 | 21.2 | 19.0 | 23.5 | 24.3 |
| Metal foil and leaf, and fabricated metal products, nec .............. | 3497,9 | 43.2 | 39.5 | 44.6 | 45.5 | 45.2 | 43.6 | 48.9 | 55.0 |
| Industrial machinery and equipment: |  |  |  |  |  |  |  |  |  |
| Lawn and garden equipment .................................................... | 3524 | 19.5 | 21.7 | 24.0 | 25.1 | 25.9 | 27.3 | 30.9 | 28.8 |
| Elevators and moving stairways ............................................... | 3534 | 12.4 | 11.6 | 11.7 | 11.5 | 11.1 | 11.9 | 12.8 | 11.8 |
| Hoists, cranes, and monorails .................................................. | 3536 | ${ }^{(1)}$ | (') | (') | (1) |  |  | 8.5 | 8.2 |
| Industrial patterns ..................................................................... | 3543 | 9.7 | 8.0 | 8.3 | 8.0 | 9.1 | 8.6 | 9.8 | 9.0 |
| Welding apparatus ................................................................... | 3548 | (') | (') | (') | ${ }^{1}$ ) | (') | () | 17.1 | 19.2 |
| Rolling mill and metalworking machinery, nec ............................ | 3547,9 | (') | (') | (') | (') | (1) | ( ${ }^{\text {( }}$ | 9.9 | 12.5 |
| Woodworking machinery ......................................................... | 3553 | 10.3 | 8.8 | 9.8 | 10.2 | 9.2 | 10.3 | 11.1 | 10.6 |
| Paper industries machinery ....................................................... | 3554 | 19.0 | 15.4 | 15.7 | 16.9 | 16.5 | 15.9 | 17.6 | 18.5 |
| Special industry machinery, nec .............................................. | 3559 | 59.2 | 48.5 | 54.2 | 60.5 | 56.6 | 53.8 | 60.4 | 64.2 |
| Packaging machinery ............................................................... | 3565 | ${ }^{(1)}$ | $\left.{ }^{( }\right)$ | (') | (') | ${ }^{(1)}$ | $\left.{ }^{( }\right)$ | 19.7 | 21.3 |
| Industrial furnaces and ovens .................................................. | 3567 | 20.4 | 16.1 | 17.4 | 18.4 | 17.9 | 17.6 | 17.1 | 18.4 |
| General industrial machinery, nec ............................................. | 3569 | (1) | (1) | (') | (') | ${ }^{(1)}$ | ${ }^{(1)}$ | 36.8 | 40.1 |
| Computer storage devices ....... | 3572 | (1) | ( ${ }^{1}$ | (') | ( ${ }^{\text {( }}$ | (1) | (') | 29.6 | 36.7 |
| Computer peripheral equipment, nec ......................................... | 3577 | (') | (') | (') | (') | (') | (') | 59.6 | 62.0 |
| Automatic vending machines .................................................. | 3581 | 9.5 | 8.7 | 9.1 | 9.0 | 8.5 | 7.8 | 8.8 | 8.0 |
| Commercial laundry equipment ................................................. | 3582 | 4.7 | 4.4 | 4.8 | 4.8 | 5.6 | 6.0 | 6.2 | 5.7 |
| Measuring and dispensing pumps, and service industry machinery, nec $\qquad$ | 3586,9 | 37.7 | 35.0 | 35.1 | 36.3 | 36.1 | 36.9 | 40.8 | 43.2 |
| Fluid power cylinders and actuators ................................................................................... | 3593 | (') | (') | (') | (') | (1) | () | 19.4 | 19.3 |
| Fluid power pumps and motors ......................................................................... | 3594 | (') | (') | (') | (') | (') | (') | 30.2 | 31.3 |
| Electronic and other electrical equipment: |  |  |  |  |  |  |  |  |  |
| Carbon and graphite products .................................................. | 3624 | 13.6 | 10.6 | 11.3 | 11.5 | 10.2 | 9.9 | 10.2 | 11.3 |
| Electrical industrial apparatus, nec ........................................... | 3629 | 11.9 | 10.5 | 11.5 | 11.1 | 11.1 | 10.5 | 9.9 | 9.1 |
| Household cooking equipment. | 3631 | 22.9 | 23.9 | 28.7 | 22.9 | 21.6 | 21.9 | 21.6 | 21.6 |
| Household vacuum cleaners and appliances, nec ...................... | 3635,9 | 25.6 | 25.0 | 27.7 | 27.5 | 26.3 | 26.7 | 25.5 | 25.7 |
| Commercial lighting fixtures ....................................................... | 3646 | 17.2 | 15.4 | 17.4 | 19.2 | 19.9 | 19.6 | 20.6 | 21.7 |
| Vehicular lighting equipment. | 3647 | 13.4 | 13.4 | 15.6 | 15.6 | 17.1 | 18.1 | 17.9 | 19.8 |
| Lighting equipment, nec .......................................................... | 3648 | 8.6 | 9.1 | 9.4 | 8.4 | 9.3 | 9.9 | 10.4 | 11.3 |
| Prerecorded records and tapes .................................................. | 3652 | 21.7 | 19.2 | 18.5 | 17.7 | 17.4 | 20.6 | 21.6 | 21.6 |
| Radio and television communications equipment ........................ | 3663 | (') | (') | ${ }^{(1)}$ | (') | (') | (') | 114.7 | 107.3 |

See footnotes at end of table.

Table 8. Employment benchmarks for industries not published monthly, March 1982-89-Continued
(In thousands)

| Industry | $1987$ <br> SIC Code | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |
| Electronic and other electrical equipment-Continued |  |  |  |  |  |  |  |  |  |
| Communications equipment, nec ............................................... | 3669 | (') | ${ }^{(1)}$ | ${ }^{(1)}$ | ( ${ }^{1}$ ) | ${ }^{(1)}$ | (') | 22.6 | 23.1 |
| Printed circuit boards ................................................................ | 3672 | (') | (') | (') | (') | (1) | (') | 80.0 | 103.2 |
| Electronic capacitors | 3675 | 27.2 | 25.2 | 33.4 | 30.1 | 25.2 | 24.6 | 24.2 | 26.4 |
| Electronic resistors | 3676 | 13.2 | 11.5 | 12.2 | 12.3 | 11.8 | 11.2 | 13.3 | 12.6 |
| Electronic coils and transformers | 3677 | 24.5 | 21.6 | 26.5 | 24.1 | 21.4 | 21.8 | 23.3 | 21.7 |
| Electronic connectors | 3678 | 7.8 | 8.9 | 10.8 | 12.0 | 11.9 | 12.9 | 14.5 | 15.0 |
| Primary batteries, dry and wet ................................................... | 3692 | 15.2 | 13.7 | 13.8 | 14.3 | 13.4 | 12.3 | 13.4 | 11.2 |
| Magnetic and optical recording media, and electrical equipment and supplies, nec $\qquad$ | 3695,9 | (') | (') | (') | (') | (') | (') | 59.0 | 58.7 |
| Transportation equipment: |  |  |  |  |  |  |  |  |  |
| Motor homes ................. | 3716 | 6.5 | 9.8 | 15.0 | 15.7 | 16.3 | 17.6 | 19.3 | 22.7 |
| Motorcycles, bicycles, and parts ............................................... | 375 | 17.1 | 14.5 | 16.4 | 13.5 | 12.4 | 11.9 | 12.5 | 13.8 |
| Space propulsion units and parts, and space vehicle equipment, nec $\qquad$ | 3764,9 | 26.4 | 30.1 | 33.9 | 37.4 | 47.8 | 49.0 | 57.1 | 58.2 |
| Tanks and tank components | 3795 | 16.3 | 18.5 | 18.4 | 20.0 | 20.0 | 19.5 | 15.6 | 16.2 |
| Transportation equipment, nec | 3799 | 9.2 | 8.8 | 10.8 | 12.2 | 11.2 | 13.0 | 14.2 | 14.6 |
| Instruments and related products: |  |  |  |  |  |  |  |  |  |
| Laboratory apparatus and furniture ........................................... | 3821 | (') | (') | (') | (') | (1) | (') | 9.2 | 8.0 |
| Fluid meters and counting devices ............................................ | 3824 | 17.1 | 14.3 | 14.5 | 15.0 | 14.2 | 11.7 | 11.7 | 11.4 |
| Analytical instruments ................. | 3826 | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{1}$ () | (') | (') | 25.9 | 29.6 |
| Optical instruments and lenses ................................................. | 3827 | (') | (1) | (1) | (1) | (') | (1) | 17.9 | 19.5 |
| Measuring and controlling devices, nec ...................................... | 3829 | (') | (') | (') | (') | (') | (') | 45.8 | 46.1 |
| Dental equipment and supplies | 3843 | 15.7 | 14.2 | 14.0 | 14.1 | 14.3 | 13.6 | 14.0 | 12.9 |
| X-ray apparatus and tubes ....................................................... | 3844 | (') | (') | (') | (') | (') | ${ }^{(1)}$ | 10.3 | 10.9 |
| Electromedical equipment ......................................................... | 3845 | (') | (') | (') | (') | (') | (') | 21.5 | 27.3 |
| Miscellaneous manufacturing industries: |  |  |  |  |  |  |  |  |  |
| Silverware and plated ware | 3914 | 11.1 | 9.8 | 10.1 | 9.0 | 8.2 | 7.4 | 7.7 | 7.5 |
| Jewelers' materials and lapidary work | 3915 | 7.8 | 7.6 | 8.3 | 8.4 | 8.2 | 8.1 | 7.8 | 7.3 |
| Pens and mechanical pencils | 3951 | 9.9 | 9.1 | 9.3 | 9.0 | 8.9 | 9.0 | 8.8 | 9.7 |
| Lead pencils and art goods ...................................................... | 3952 | 8.2 | 7.4 | 7.0 | 7.2 | 7.0 | 6.7 | 7.2 | 7.5 |
| Marking devices, carbon paper, and inked ribbons ..................... | 3953,5 | 15.7 | 15.1 | 15.8 | 16.2 | 17.0 | 16.8 | 18.2 | 18.6 |
| Fasteners, buttons, needles, and pins | 3965 | ( ${ }^{1}$ ) | (') | (') | (') | ( ${ }^{1}$ | (') | 12.9 | 12.6 |
| Brooms and brushes | 3991 | 15.2 | 13.6 | 14.2 | 13.5 | 13.2 | 12.4 | 13.5 | 13.3 |
| Burial caskets ......................................................................... | 3995 | 11.0 | 10.2 | 9.9 | 9.8 | 9.5 | 9.6 | 9.3 | 9.3 |
| Hard surface floor coverings and manufacturing industries, nec | 3996,9 | ${ }^{(1)}$ | (') | (') | ( ${ }^{1}$ ) | ( ${ }^{1}$ | ( ${ }^{\text {() }}$ | 61.2 | 61.5 |
| Nondurable goods |  | 7,794 | 7,563 | 7,830 | 7,760 | 7,694 | 7,734 | 7,898 | 7,948 |
| Food and kindred products: |  |  |  |  |  |  |  |  |  |
| Creamery butter | 2021 | 2.3 | 2.3 | 2.0 | 2.0 | 2.0 | 2.4 | 2.3 | 2.0 |
| Dry, condensed, and evaporated products ................................ | 2023 | 15.6 | 15.4 | 16.0 | 15.0 | 15.1 | 15.6 | 15.4 | 15.8 |
| Ice cream and frozen desserts ............. | 2024 | 18.1 | 17.8 | 18.2 | 18.6 | 20.5 | 21.1 | 21.3 | 21.4 |
| Dehydrated fruits, vegetables, and soups | 2034 | 14.9 | 15.5 | 15.0 | 15.4 | 15.6 | 15.7 | 15.3 | 15.1 |
| Pickles, sauces, and salad dressings | 2035 | 22.0 | 18.8 | 18.7 | 18.7 | 19.4 | 19.7 | 20.8 | 20.8 |
| Frozen specialties, nec ............................................................. | 2038 | (') | (') | (') | (') | ( ${ }^{\text {( }}$ | (') | 41.0 | 41.6 |
| Cereal breakfast foods ............................................................. | 2043 | 17.2 | 17.7 | 17.8 | 17.9 | 17.8 | 19.0 | 19.2 | 20.2 |
| Rice milling ....... | 2044 | 6.2 | 5.8 | 5.5 | 5.1 | 4.9 | 5.4 | 5.4 | 5.4 |
| Prepared flour mixes and doughs | 2045 | 6.3 | 7.3 | 6.9 | 7.1 | 7.7 | 9.1 | 9.5 | 9.0 |
| Wet corn milling ..... | 2046 | 11.7 | 10.3 | 10.3 | 10.1 | 9.0 | 8.7 | 9.1 | 9.2 |
| Dog and cat food ............................................. | 2047 | ${ }^{(1)}$ | ( ${ }^{1}$ ) | (1) | (') | ( ${ }^{\text {( })}$ | ${ }^{(1)}$ | 12.6 | 15.2 |
| Chocolate and cocoa products and chewing gum ...................... | 2066,7 | 18.7 | 18.5 | 19.8 | 18.8 | 18.4 | 18.8 | 21.3 | 21.8 |
| Salted and roasted nuts and seeds | 2068 | (') | (') | (') | (') | ( ${ }^{1}$ | ${ }^{(1)}$ | 7.3 | 6.3 |
| Cottonseed, soybean, and vegetable oil mills ............................ | 2074,5,6 | 18.1 | 19.0 | 15.4 | 15.9 | 15.6 | 14.5 | 13.0 | 12.7 |
| Animal and marine fats and oils ............................................... | 2077 | 9.9 | 9.3 | 9.2 | 8.7 | 8.2 | 8.1 | 8.0 | 8.1 |
| Edible fats and oils, nec... | 2079 | 12.3 | 11.9 | 11.7 | 11.3 | 11.0 | 11.1 | 11.3 | 10.3 |
| Wines, brandy, and brandy spirits .............................................. | 2084 | 13.4 | 14.9 | 13.8 | 14.4 | 15.0 | 15.0 | 15.7 | 16.2 |
| Distilled and blended liquors .................................................... | 2085 | 15.6 | 14.6 | 14.3 | 13.4 | 12.3 | 11.8 | 11.0 | 9.8 |
| Malt and flavoring extracts and syrups, nec | 2083,7 | 15.6 | 15.5 | 16.2 | 16.6 | 16.1 | 16.1 | 17.1 | 17.6 |
| Canned and cured fish and seafoods | 2091 | 18.0 | 14.5 | 13.4 | 9.4 | 10.2 | 9.9 | 11.4 | 9.9 |
| Fresh or frozen packaged fish ...... | 2092 | 32.1 | 34.6 | 33.8 | 33.1 | 35.6 | 35.8 | 38.8 | 41.7 |
| Roasted coffee . | 2095 | 12.4 | 12.4 | 12.1 | 12.3 | 12.3 | 12.4 | 12.4 | 11.7 |
| Potato chips and similar snacks ............................................... | 2096 | ${ }^{(1)}$ | $\left.{ }^{( }\right)$ | (') | (') | ${ }^{1}$ ) | ${ }^{(1)}$ | 32.1 | 33.4 |
| Manufactured ice ..................................................................... | 2097 | 4.9 | 4.8 | 5.0 | 5.0 | 5.7 | 5.2 | 5.1 | 5.1 |
| Macaroni and spaghetti ........................................................... | 2098 | 8.3 | 8.2 | 8.0 | 8.2 | 8.3 | 8.7 | 8.8 | 8.0 |
| Food preparations, nec ............................................................. | 2099 | ${ }^{(1)}$ | (') | (') | (') | (') | ( ${ }^{1}$ ) | 53.3 | 56.8 |
| Tobacco products: |  |  |  |  |  |  |  |  |  |
| Cigars ........................................................................................ | 212 | 6.7 | 5.5 | 5.7 | 5.4 | 4.6 | 3.6 | 3.7 | 3.3 |
| Other tobacco products .............................................................. | 213,4 | 11.8 | 13.6 | 11.4 | 12.9 | 12.0 | 10.1 | 10.1 | 10.0 |

See footnotes at end of table.

Table 8. Employment benchmarks for industries not published monthly, March 1982-89-Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC Code } \end{gathered}$ | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |
| Textile mill products: |  |  |  |  |  |  |  |  |  |
| Lace and warp knit fabric mills, and knitting mills, nec ............... | 2258,9 | (1) | (') | (') | (') | (1) | (') | 21.9 | 19.9 |
| Finishing plants, nec. | 2269 | 14.0 | 14.1 | 18.7 | 14.2 | 14.2 | 13.7 | 13.9 | 12.9 |
| Thread mills | 2284 | 9.5 | 9.2 | 9.2 | 7.5 | 6.8 | 7.7 | 7.5 | 6.9 |
| Coated fabrics, not rubberized | 2295 | 10.9 | 9.7 | 10.8 | 11.0 | 10.1 | 9.4 | 10.4 | 9.4 |
| Tire cord and fabrics | 2296 | 8.3 | 7.1 | 6.9 | 6.5 | 5.6 | 5.5 | 5.4 | 6.3 |
| Cordage and twine | 2298 | 8.8 | 8.1 | 8.2 | 8.1 | 7.5 | 7.6 | 8.4 | 7.8 |
| Nonwoven fabrics and other textile goods nec ............................ | 2297,9 | () | (') | (') | ( ${ }^{1}$ | (') | (') | 28.6 | 29.0 |
| Apparel and other textile products: |  |  |  |  |  |  |  |  |  |
| Men's and boys' underwear and nightwear ............................... | 2322 | (') | (') | (') | (') | (') | (') | 26.5 | 21.9 |
| Men's and boys' neckwear | 2323 | 6.4 | 6.8 | 7.2 | 6.9 | 7.3 | 7.8 | 8.2 | 7.8 |
| Men's and boys' clothing, nec | 2329 | 55.3 | 48.7 | 53.7 | 52.3 | 49.6 | 48.3 | 53.4 | 54.0 |
| Hats, caps, and millinery ......... | 235 | 15.9 | 14.7 | 16.2 | 16.4 | 15.6 | 14.5 | 14.7 | 15.1 |
| Girl's and children's outerwear, nec | 2369 | 36.4 | 33.0 | 36.2 | 35.0 | 34.4 | 33.9 | 36.1 | 35.6 |
| Fur goods ......... | 237 | 3.7 | 3.2 | 2.3 | 2.9 | 2.7 | 2.7 | 2.4 | 2.3 |
| Fabric dress and work gloves | 2381 | 9.9 | 8.7 | 8.7 | 9.4 | 8.6 | 7.2 | 7.3 | 6.7 |
| Robes and dressing gowns ..................................................... | 2384 | 9.0 | 8.5 | 8.4 | 8.0 | 7.7 | 7.2 | 7.2 | 7.5 |
| Waterproof outerwear | 2385 | 10.2 | 9.5 | 8.0 | 8.0 | 6.8 | 6.2 | 6.2 | 6.5 |
| Leather and sheep-lined clothing | 2386 | 4.5 | 3.8 | 3.8 | 3.1 | 2.3 | 2.8 | 3.4 | 3.6 |
| Apparel belts .... | 2387 | 10.7 | 10.3 | 10.7 | 9.5 | 8.8 | 10.6 | 10.4 | 10.7 |
| Apparel and accessories, nec | 2389 | 6.5 | 5.8 | 6.3 | 6.7 | 6.7 | 7.4 | 7.7 | 9.6 |
| Textile bags | 2393 | 8.3 | 7.9 | 8.1 | 8.0 | 7.6 | 7.7 | 9.0 | 8.9 |
| Canvas and related products | 2394 | 14.9 | 15.0 | 16.5 | 16.9 | 16.4 | 17.3 | 18.2 | 17.7 |
| Pleating and stitching ....... | 2395 | 15.6 | 14.4 | 14.8 | 13.5 | 14.3 | 14.9 | 15.0 | 15.2 |
| Other fabricated textile products ............................................... | 2397,9 | 26.0 | 26.8 | 29.3 | 30.0 | 31.3 | 33.5 | 34.8 | 35.7 |
| Paper and allied products: |  |  |  |  |  |  |  |  |  |
| Pulp mills | 261 | (') | (') | (') | (') | (') | (') | 14.5 | 16.4 |
| Setup paperboard boxes | 2652 | 10.7 | 10.3 | 10.5 | 10.4 | 10.1 | 9.2 | 9.1 | 8.7 |
| Fiber cans, drums, and similar products | 2655 | 16.9 | 17.2 | 17.3 | 16.6 | 15.8 | 15.4 | 16.3 | 16.7 |
| Paper, coated and laminated, packaging. | 2671 | (') | (1) | (') | (') | (') | (1) | 17.5 | 19.9 |
| Bags: uncoated paper and multiwall. | 2674 | (') | (1) | ( ${ }^{1}$ | (') | (') | (') | 19.2 | 21.3 |
| Die-cut paper and board | 2675 | 16.1 | 15.5 | 17.9 | 18.4 | 15.7 | 16.1 | 17.6 | 18.2 |
| Sanitary paper products ............................................................ | 2676 | 27.1 | 27.7 | 28.5 | 30.1 | 31.4 | 30.6 | 30.8 | 31.6 |
| Stationery and converted paper products, nec ........................... | 2678,9 | (') | (') | ( ${ }^{1}$ | (1) | (') | (') | 48.9 | 45.1 |
| Printing and publishing: |  |  |  |  |  |  |  |  |  |
| Commercial printing, gravure .................................................... | 2754 | 12.8 | 12.8 | 13.5 | 15.0 | 14.9 | 15.9 | 13.9 | 15.5 |
| Greeting cards | 277 | 24.4 | 23.4 | 23.3 | 24.0 | 22.3 | 23.4 | 23.4 | 23.4 |
| Blankbooks and looseleaf binders | 2782 | 38.5 | 39.4 | 40.8 | 43.1 | 44.3 | 44.7 | 46.9 | 47.0 |
| Bookbinding and related work | 2789 | 23.1 | 23.9 | 26.4 | 27.9 | 27.4 | 27.4 | 28.1 | 27.8 |
| Typesetting .............................................................................. | 2791 | 28.8 | 28.2 | 30.6 | 32.8 | 33.1 | 33.8 | 35.6 | 34.5 |
| Platemaking services ................................................................... | 2796 | (') | ${ }^{(1)}$ | (') | (') | (') | (') | 25.8 | 29.8 |
| Chemicals and allied products: |  |  |  |  |  |  |  |  |  |
| Alkalies and chlorine | 2812 | 20.5 | 17.6 | 15.6 | 15.3 | 12.4 | 10.8 | 10.4 | 10.7 |
| Industrial gases ....................................................................... | 2813 | 24.3 | 23.6 | 23.1 | 23.2 | 23.5 | 21.3 | 21.2 | 22.0 |
| Inorganic pigments | 2816 | 10.8 | 9.7 | 9.8 | 10.3 | 10.6 | 10.6 | 10.6 | 10.3 |
| Synthetic rubber | 2822 | 14.5 | 13.4 | 13.2 | 13.4 | 13.3 | 13.3 | 15.3 | 15.3 |
| Cellulosic synthetic fibers. | 2823 | 18.5 | 15.7 | 19.1 | 18.0 | 16.3 | 13.6 | 13.0 | 13.8 |
| Medicinals and botanicals . | 2833 | 18.6 | 18.3 | 18.4 | 17.8 | 18.2 | 17.2 | 18.4 | 17.7 |
| Diagnostic and other biological products | 2835,6 | 23.8 | 23.3 | 22.3 | 22.3 | 23.2 | 26.2 | 20.6 | 21.1 |
| Gum and wood chemicals | 2861 | (') | (') | (') | (') | (') | (') | 5.0 | 4.9 |
| Nitrogenous fertilizers. | 2873 | 14.9 | 13.0 | 12.8 | 12.7 | 11.7 | 10.5 | 9.7 | 10.1 |
| Phosphatic fertilizers | 2874 | 16.5 | 13.6 | 13.2 | 13.6 | 11.9 | 10.7 | 10.9 | 11.5 |
| Fertilizers, mixing only ....... | 2875 | 12.7 | 13.1 | 13.0 | 12.9 | 11.8 | 11.5 | 11.0 | 10.3 |
| Agricultural chemicals, nec | 2879 | 24.8 | 23.1 | 22.7 | 22.5 | 21.2 | 19.4 | 22.0 | 21.3 |
| Adhesives and sealants | 2891 | 20.4 | 19.7 | 21.3 | 22.2 | 22.3 | 22.2 | 24.2 | 23.9 |
| Explosives .. | 2892 | 15.3 | 15.6 | 15.2 | 16.3 | 16.9 | 16.7 | 15.9 | 15.2 |
| Printing ink | 2893 | 11.8 | 11.6 | 11.9 | 12.0 | 11.7 | 13.1 | 13.8 | 14.9 |
| Other chemical preparations | 2895,9 | 44.6 | 41.5 | 41.5 | 44.0 | 42.2 | 42.0 | 46.3 | 45.6 |
| Petroleum and coal products: |  |  |  |  |  |  |  |  |  |
| Asphalt paving mixtures and blocks ......................................... | 2951 | 9.4 | 9.2 | 9.4 | 9.9 | 10.4 | 10.6 | 10.7 | 10.3 |
| Asphalt felts and coatings ....................................................... | 2952 | 12.7 | 14.1 | 15.3 | 14.1 | 14.0 | 13.7 | 14.0 | 13.7 |
| Miscellaneous petroleum and coal products .............................. | 299 | 11.9 | 11.1 | 11.1 | 11.4 | 11.6 | 12.0 | 12.2 | 11.7 |
| Rubber and miscellaneous plastics products: |  |  |  |  |  |  |  |  |  |
| Gaskets, packing and sealing devices ...................................... | 3053 | 26.8 | 23.5 | 26.7 | 27.7 | 28.6 | 28.1 | 31.6 | 33.9 |
| Mechanical rubber goods ......................................................... | 3061 | ${ }^{(1)}$ | (') | $\left.{ }^{1}\right)$ | ${ }^{(1)}$ | () | (1) | 50.1 | 50.6 |
| Fabricated rubber products, nec ............................................... | 3069 | (') | (') | (') | (') | (') | (') | 54.2 | 61.2 |
| Unsupported plastics film and sheet ......................................... | 3081 | (') | (') | (') | (') | (') | (') | 52.4 | 53.4 |

See footnotes at end of table.

Table 8. Employment benchmarks for industries not published monthly, March 1982-89-Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC Code } \end{gathered}$ | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |
| Rubber and miscellaneous plastics products-Continued |  |  |  |  |  |  |  |  |  |
| Unsupported plastics profile shapes ......................................... | 3082 | ${ }^{(1)}$ | (') | ${ }^{(1)}$ | (') | (1) | (') | 28.5 | 29.5 |
| Laminated plastics plate and sheet ............................................ | 3083 | (') | (') | (') | (') | (') | (') | 20.0 | 21.5 |
| Plastics pipe | 3084 | (') | (') | (') | (') | () | () | 14.7 | 15.5 |
| Plastics bottles | 3085 | (') | (') | (') | (1) | (1) | (') | 28.4 | 29.9 |
| Plastics foam products ........................................................................................................... | 3086 | (') | (') | (1) | (1) | (') | ${ }^{(1)}$ | 50.2 | 51.4 |
| Custom compound purchased resins | 3087 | (') | (') | (') | (1) | (') | (') | 27.1 | 25.1 |
| Plastics plumbing fixtures and plastic products, nec ................... | 3088,9 | (') | (') | (') | (') | (') | (') | 376.4 | 398.6 |
| Leather and leather products: |  |  |  |  |  |  |  |  |  |
| Footwear cut stock | 313 | 10.4 | 9.4 | 9.4 | 6.9 | 6.3 | 5.8 | 6.6 | 6.4 |
| House slippers | 3142 | 9.3 | 7.6 | 7.0 | 5.9 | 5.1 | 3.9 | 4.6 | 4.8 |
| Footwear, except rubber, nec | 3149 | 20.6 | 20,3 | 18.7 | 15.1 | 14.0 | 12.1 | 12.8 | 11.1 |
| Leather gloves and mittens | 315 | 4.2 | 3.4 | 3.4 | 3.3 | 3.2 | 3.1 | 2.9 | 2.7 |
| Women's handbags and purses | 3171 | 17.2 | 14.6 | 14.2 | 11.7 | 10.4 | 8.5 | 8.4 | 6.9 |
| Personal leather goods, nec ...... | 3172 | 11.6 | 10.8 | 11.0 | 9.6 | 9.2 | 8.3 | 9.0 | 8.8 |
| Leather goods, nec .............. | 319 | 9.1 | 8.3 | 8.2 | 8.1 | 7.9 | 8.4 | 8.9 | 9.0 |
| Service-producing ........................................................................ |  | 65,510 | 65,862 | 68,570 | 71.573 | 73,958 | 76,390 | 79,269 | 82,211 |
| Transportation and public utilities $\qquad$ Transportation: |  | 5,070 | 4,923 | 5,063 | 5,155 | 5,200 | 5,274 | 5,439 | 5,549 |
| Other railroads and switching and terminal services | 4013 | 32.9 | 27.9 | 27.4 | 36.3 | 36.1 | 37.1 | 38.4 | 38.7 |
| Bus charter service, and bus terminal and service facilities ........ | 414,7 | 18.0 | 18.6 | 20.7 | 22.0 | 21.0 | 21.4 | 25.2 | 27.0 |
| General warehousing and storage . | 4225 | (') | (') | (') | (') | (') | (') | 61.7 | 63.5 |
| Warehousing and storage, nec ..... | 4221,2,6 | (') | (') | (') | (') | (') | (') | 47.4 | 48.5 |
| Trucking terminal facilities.. | 423 | 6.9 | 5.8 | 5.9 | 5.6 | 5.2 | 5.2 | 4.5 | 3.7 |
| Deep sea and Great Lakes freight transportation ....................... | 441,2,3 | (') | (') | (') | ( ${ }^{(1)}$ | (1) | (') | 32.1 | 30.9 |
| Water transportation of passengers .......................................... | 448 | (') | (') | (') | (') | (') | (') | 12.3 | 12.3 |
| Marine cargo handling .................. | 4491 | (') | (') | (') | (') | (') | (') | 55.8 | 58.7 |
| Marinas | 4493 | (') | (') | (') | (') | (') | (') | 16.0 | 16.6 |
| Towing, tugboat, and water transportation services, nec .............. | 4492,9 | (') | (') | (') | (') | (1) | (') | 35.7 | 33.4 |
| Air transportation, scheduled ..................................................... | 4512 | (') | (') | (1) | (') | (') | (') | 456.7 | 458.2 |
| Air courier services | 4513 | (') | (') | (') | (') | (') | (') | 68.4 | 82.8 |
| Air transportation, nonscheduled .............................................. | 452 | (') | (') | (') | (1) | (1) | (') | 18.2 | 23.1 |
| Passenger transportation arrangement ...................................... | 472 | (') | (') | () | (1) | (1) | (') | 170.9 | 179.6 |
| Travel agencies | 4724 | (') | (') | (') | () | ${ }^{(1)}$ | (') | 133.2 | 141.6 |
| Tour operators ...................................................................... | 4725 | (1) | (') | (') | () | (') | (') | 20.8 | 22.4 |
| Passenger transport arrangement, nec .................................... | 4729 | (') | (') | (') | (') | (') | (') | 16.9 | 15.6 |
| Rental of railroad cars ............................................................. | 474 | 8.7 | 7.4 | 6.9 | 7.0 | 6.4 | 6.6 | 6.1 | 6.0 |
| Miscellaneous transportation services ....................................... | 478 | 13.0 | 11.7 | 13.0 | 15.0 | 13.6 | 15.2 | 16.6 | 18.4 |
| Communications and public utilities: |  |  |  |  |  |  |  |  |  |
| Radiotelephone communications .............................................. | 4812 | (') | (') | (') | ${ }^{1}$ ') | (') | (') | 21.3 | 27.6 |
| Telephone communications, except radio .................................. | 4813 | 1,053.5 | 1,000.0 | 938.9 | 902.0 | 880.0 | 871.8 | 875.0 | 873.6 |
| Telegraph and other communications ....................................... | 482 | (') | (') | (') | (') | (') | (') | 17.5 | 14.1 |
| Communications services, nec .................................................. | 489 | (') | (') | (') | (') | (') | (') | 25.5 | 23.8 |
| Water supply | 494 | 20.7 | 20.8 | 21.1 | 21.8 | 22.3 | 22.8 | 23.9 | 24.7 |
| Steam and air-conditioning supply, and irrigation systems .......... | 496,7 | 3.3 | 2.7 | 3.3 | 3.4 | 3.4 | 3.2 | 3.9 | 3.8 |
| Wholesale trade |  | 5,313 | 5,173 | 5,465 | 5,673 | 5,715 | 5,784 | 5,948 | 6,195 |
| Tires and tubes | 5014 | 31.9 | 31.4 | 32.5 | 31.1 | 30.1 | 29.3 | 29.5 | 30.2 |
| Motor vehicle parts, used | 5015 | ( ${ }^{1}$ | ( ${ }^{\text {( }}$ | (') | (') | (') |  | 36.3 | 37.8 |
| Brick, stone, and related materials | 5032 | (1) | (') | (') | (1) | ${ }^{(1)}$ | ${ }^{(1)}$ | 33.0 | 36.2 |
| Roofing, siding, and insulation ...... | 5033 | (') | (') | (') | (1) | (') | (') | 25.0 | 26.6 |
| Photographic equipment and supplies | 5043 | ( ${ }^{1}$ | (') | () | (') | (') | (') | 26.6 | 31.6 |
| Office equipment ........................................................................ | 5044 | (') | ${ }^{(1)}$ | (') | () | (1) | ${ }^{(1)}$ | 193.7 | 199.7 |
| Commercial equipment, nec ........................................................ | 5046 | (') | (') | (') | (') | (') | (') | 49.1 | 50.6 |
| Medical and hospital equipment | 5047 | (') | $\left.{ }^{1}\right)$ | (1) | ${ }^{1}$ () | (1) | ${ }^{(1)}$ | 112.0 | 123.7 |
| Ophthalmic goods ................ | 5048 | ${ }^{(1)}$ | (') | (') | (') | (1) | (1) | 20.9 | 21.8 |
| Professional equipment, nec ....................................................... | 5049 | (') | (') | (') | (') | (') | (') | 39.2 | 39.9 |
| Warm air heating and air-conditioning | 5075 | () | (') | (') | (') | (') | () | 50.8 | 52.6 |
| Refrigeration equipment and supplies .......................................... | 5078 | (') | (') | (') | (') | (') | (') | 14.6 | 14.9 |
| Service establishment equipment ................................................ | 5087 | 61.5 | 63.4 | 67.1 | 71.0 | 73.2 | 76.0 | 82.1 | 85.9 |
| Transportation equipment and supplies ....................................... | 5088 | 34.6 | 30.1 | 31.2 | 32.6 | 32.7 | 33.6 | 38.4 | 39.1 |
| Sporting and recreational goods ................................................. | 5091 | (') | ${ }^{(1)}$ | (') | (') | ${ }^{(1)}$ | ${ }^{(1)}$ | 40.2 | 43.4 |
| Toys and hobby goods and supplies ............................................ | 5092 | (') | (') 35 | (') | (') | (') | (') | 21.9 | 22.9 |
| Jewelry and precious stones ............ | 5094 | 36.2 | 35.9 | 38.0 | 40.4 | 42.9 | 43.8 | 46.0 | 48.0 |
| Wholesale trade durable goods, nec ............................................ | 5099 | 63.3 | 59.0 | 60.5 | 62.0 | 60.0 | 63.9 | 71.1 | 76.9 |

See footnotes at end of table.

Table 8. Employment benchmarks for industries not published monthly, March 1982-89—Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC Code } \end{gathered}$ | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wholesale trade-Continued |  |  |  |  |  |  |  |  |  |
| Printing and writing paper | 5111 | (1) | (1) | (1) | ${ }^{(1)}$ | ${ }^{(1)}$ | (1) | 24.6 | 24.9 |
| Stationery and office supplies | 5112 | (') | (1) | (') | (') | ${ }^{(1)}$ | (') | 107.4 | 114.9 |
| Industry and personal service paper | 5113 | (') | (1) | (') | (') | (') | (') | 83.9 | 87.1 |
| Piece goods and notions ................. | 5131 | (1) | (') | (1) | (') | (') | (1) | 52.6 | 54.7 |
| Men's and boys' clothing | 5136 | (1) | (1) | (') | (') | (') | (') | 40.0 | 43.8 |
| Women's and children's clothing | 5137 | (') | (1) | (') | (') | (') | (') | 78.2 | 83.9 |
| Footwear | 5139 | (') | (') | (') | (') | (') | (') | 19.2 | 19.8 |
| Packaged frozen foods | 5142 | 23.1 | 24.3 | 25.8 | 27.0 | 27.6 | 28.6 | 30.3 | 32.3 |
| Dairy products, except dried or canned | 5143 | 39.9 | 40.7 | 41.4 | 43.7 | 44.1 | 47.3 | 47.0 | 47.6 |
| Poultry and poultry products | 5144 | 26.9 | 27.8 | 24.8 | 24.0 | 23.3 | 23.6 | 22.4 | 21.3 |
| Confectionery .................. | 5145 | 34.2 | 37.0 | 40.1 | 40.5 | 41.8 | 44.1 | 45.7 | 46.6 |
| Fish and seafoods | 5146 | 23.4 | 24.3 | 25.7 | 27.1 | 27.9 | 29.1 | 30.8 | 31.7 |
| Groceries and related products, nec | 5149 | 150.9 | 153.7 | 163.8 | 174.1 | 184.4 | 193.0 | 206.3 | 221.3 |
| Farm-product raw materials .............. | 515 | 145.9 | 139.0 | 137.0 | 133.8 | 127.5 | 124.4 | 125.0 | 124.5 |
| Grain and field beans ...... | 5153 | (') | (') | ${ }^{(1)}$ | (') | ${ }^{1}$ (1) | ${ }^{1}$ (1) | 66.9 | 67.3 |
| Livestock | 5154 | (') | (') | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{(1)}$ | (') | 36.5 | 36.2 |
| Farm-product raw materials, nec | 5159 | (') | (') | (') | (') | (1) | (') | 21.6 | 21.0 |
| Plastics materials and basic shapes | 5162 | () | (') | (') | (') | (') | (1) | 22.2 | 23.2 |
| Chemicals and allied products, nec | 5169 | () | (1) | (1) | (') | (') | (') | 102.3 | 104.6 |
| Books, periodicals, and newspapers | 5192 | (') | (') | ${ }^{(1)}$ | ${ }^{(1)}$ | (') | (') | 62.1 | 65.1 |
| Flowers and florists' supplies ......... | 5193 | (') | (') | (') | (') | (') | (') | 41.6 | 45.1 |
| Tobacco and tobacco products | 5194 | 38.6 | 38.3 | 40.1 | 39.1 | 40.5 | 40.1 | 42.3 | 45.6 |
| Paints, varnishes, and supplies ............. | 5198 | 25.6 | 25.4 | 26.9 | 27.8 | 28.0 | 29.6 | 30.4 | 30.5 |
| Wholesale trade nondurable goods, nec ..................................... | 5199 | (') | (') | ${ }^{(1)}$ | (') | (') | (') | 117.8 | 128.6 |
| Retail trade |  | 14,748 | 14,954 | 15,872 | 16,762 | 17,307 | 17,882 | 18,529 | 19,115 |
| Paint, glass, and wallpaper stores | 523 | 60.4 | 58.8 | 63.2 | 66.1 | 67.2 | 66.9 | 71.3 | 72.6 |
| Retail nurseries and garden stores | 526 | 54.0 | 53.3 | 56.6 | 64.2 | 68.5 | 71.0 | 76.8 | 79.0 |
| Mobile home dealers | 527 | 24.1 | 24.0 | 28.3 | 29.1 | 27.5 | 27.3 | 27.7 | 27.9 |
| Fruit and vegetable markets | 543 | 18.2 | 20.0 | 21.0 | 21.2 | 21.6 | 21.9 | 22.4 | 22.6 |
| Candy, nut, and confectionery stores | 544 | 24.2 | 25.3 | 27.6 | 29.6 | 31.5 | 30.4 | 30.7 | 32.5 |
| Miscellaneous food stores | 549 | 33.6 | 34.5 | 37.8 | 39.5 | 38.9 | 39.0 | 40.5 | 43.5 |
| Used car dealers | 552 | 40.3 | 41.8 | 47.5 | 51.1 | 52.5 | 55.4 | 59.9 | 62.6 |
| Boat dealers | 555 | 22.4 | 23.0 | 25.2 | 27.2 | 30.2 | 33.7 | 38.2 | 40.5 |
| Recreational vehicle dealers | 556 | (') | ( ${ }^{1}$ | $\left.{ }^{1}\right)$ | (') | (') | () | 19.6 | 21.3 |
| Motorcycle dealers | 557 | 27.8 | 26.1 | 27.7 | 29.8 | 29.0 | 27.0 | 25.9 | 25.0 |
| Women's accessory and specialty stores | 563 | 27.2 | 27.7 | 29.5 | 32.7 | 36.2 | 40.7 | 45.4 | 46.0 |
| Children's and infants' wear stores . | 564 | 31.4 | 32.3 | 32.6 | 33.8 | 35.0 | 35.9 | 36.9 | 35.4 |
| Miscellaneous apparel and accessory stores | 569 | 45.8 | 45.6 | 49.3 | 51.5 | 54.5 | 57.0 | 63.0 | 67.7 |
| Floor covering stores .. | 5713 | 52.4 | 52.3 | 59.6 | 64.3 | 68.3 | 72.5 | 77.6 | 80.1 |
| Drapery, upholstery, and miscellaneous home furnishings | 5714,9 | 67.7 | 68.7 | 77.2 | 82.3 | 86.8 | 89.6 | 95.8 | 100.5 |
| Computer and software stores. | 5734 | (') | ${ }^{(1)}$ | (') | ${ }^{(1)}$ | ${ }^{(1)}$ | (') | 60.2 | 69.5 |
| Musical instrument stores | 5736 | (1) | (') | (') | (') | (') | (') | 25.6 | 26.4 |
| Used merchandise stores | 593 | (') | (') | (') | (') | (') | (1) | 54.8 | 60.6 |
| Hobby, toy, and game shops | 5945 | 43.0 | 44.1 | 52.2 | 56.5 | 63.8 | 69.9 | 82.3 | 87.6 |
| Camera, luggage, and leather goods stores | 5946,8 | 40.1 | 39.7 | 39.7 | 39.9 | 40.4 | 42.2 | 43.0 | 44.0 |
| Direct selling establishments ........... | 5963 | 51.1 | 52.5 | 52.3 | 56.2 | 61.5 | 59.4 | 60.5 | 57.5 |
| Florists, tobacco stores, and newsstands | 5992,3,4 | () | ( ${ }^{\text {( })}$ | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{(1)}$ | (1) | 143.6 | 149.9 |
| Optical goods stores | 5995 | () | (1) | (') | (') | ${ }^{(1)}$ | (1) | 50.1 | 54.6 |
| Miscellaneous retail stores, nec | 5999 | (') | (') | (') | (') | (') | () | 173.5 | 192.8 |
| Finance, insurance, and real estate |  | 5,294 | 5,361 | 5,588 | 5,825 | 6,140 | 6,443 | 6,594 | 6,639 |
| Central reserve depositories. | 601 | (') | (') | (') | ${ }^{\text {' }}$ ) | (') | ${ }^{(1)}$ | 27.9 | 29.0 |
| National and commercial banks, nec | 6021,9 | 800.0 | 794.7 | 803.2 | 827.8 | 850.5 | 849.1 | 879.6 | 878.4 |
| Foreign banks and branches and agencies .................................. | 608 | () | (1) | (') | ${ }^{(1)}$ | (') | (') | 25.8 | 27.2 |
| Functions closely related to banking ............... | 609 | () | (') | (') | (') | (') | (') | 47.2 | 51.4 |
| Federal and federally sponsored credit agencies | 611 | () | (') | (') | (') | (') | (') | 11.0 | 10.3 |
| Short-term business credit ................................. | 6153 | (') | (') | (') | (') | ( ${ }^{\text {( }}$ | (') | 34.3 | 40.2 |
| Miscellaneous business credit institutions | 6159 | (') | (1) | (') | ${ }^{1}$ | (') | (') | 30.8 | 33.4 |
| Investment advice | 6282 | (1) | (') | (') | (') | (') | (') | 44.0 | 45.3 |
| Security and commodity services, nec | 6289 | (') | (') | (') | (') | (') | (') | 24.8 | 24.9 |
| Holding offices. | 671 | 63.2 | 67.6 | 74.8 | 80.8 | 91.1 | 104.4 | 103.7 | 105.1 |
| Bank holding companies | 6712 | ${ }^{(1)}$ | (1) | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{(1)}$ | 26.9 | 26.5 |
| Holding companies, nec . | 6719 | ( ${ }^{1}$ | (') | (') | (') | (') | (') | 76.8 | 78.6 |
| Trusts | 673 | 40.7 | 38.7 | 34.4 | 40.4 | 55.2 | 55.5 | 57.8 | 77.0 |
| investment offices and miscellaneous investing | 672,9 | 27.1 | 27.5 | 31.5 | 36.3 | 39.1 | 39.2 | 42.3 | 39.5 |
| Accident and health insurance | 6321 | (1) | ${ }^{(1)}$ | $\left.{ }^{1}\right)$ | (') | (') | ${ }^{(1)}$ | 52.6 | 53.9 |
| Hospital and medical service plans .............................................. | 6324 | (') | (') | (') | (') | (') | (') | 161.5 | 172.0 |
| Pension, health, and welfare funds | 637 | 23.2 | 25.2 | 24.6 | 26.8 | 27.8 | 33.5 | 36.0 | 36.3 |
| Surety insurance and insurance carriers, nec. | 635,9 | 7.6 | 8.3 | 8.4 | 9.4 | 9.8 | 12.0 | 13.0 | 14.7 |
| Title abstract offices | 654 | 19.2 | 19.6 | 23.7 | 24.8 | 27.7 | 32.7 | 30.9 | 30.3 |

See footnotes at end of table.
(In thousands)

| Industry | 1987 SIC Code | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Services |  | 18,888 | 19,262 | 20,365 | 21,561 | 22,650 | 23,754 | 25,105 | 26,702 |
| Agricultural services: |  |  |  |  |  |  |  |  |  |
| Veterinary services | 074 | 72.9 | 77.2 | 81.9 | 87.0 | 94.1 | 100.4 | 107.6 | 114.2 |
| Animal services, except veterinary | 075 | 34.1 | 35.4 | 38.2 | 39.7 | 41.4 | 42.2 | 44.3 | 41.6 |
| Landscape and horticultural services ........................................ | 078 | 122.4 | 131.4 | 154.2 | 181.0 | 199.2 | 220.4 | 241.0 | 249.2 |
| Hotels and other lodging places: |  |  |  |  |  |  |  |  |  |
| Camps and recreational vehicle parks ...................................... | 703 | 14.3 | 15.2 | 16.8 | 18.3 | 18.0 | 19.2 | 20.0 | 21.6 |
| Rooming and boarding houses, and membership-basis organization hotels $\qquad$ | 702,4 | 15.2 | 14.6 | 15.3 | 15.3 | 15.5 | 16.2 | 16.7 | 17.9 |
| Personal services: |  |  |  |  |  |  |  |  |  |
| Barber shops . | 724 | 23.9 | 23.8 | 23.4 | 21.2 | 20.1 | 19.3 | 18.5 | 17.9 |
| Shoe repair shops and shoeshine partors. | 725 | ${ }^{(1)}$ | ( ${ }^{\text {a }}$ | (') | (') | ( ${ }^{\text {( }}$ | (') | 7.0 | 7.0 |
| Tax return preparation services .. | 7291 | (') | (') | (') | (') | (') | (') | 83.9 | 88.2 |
| Miscellaneous personal services, nec ........................................ | 7299 | (') | (') | (') | (') | (') | (') | 79.5 | 91.4 |
| Business services: |  |  |  |  |  |  |  |  |  |
| Outdoor, radio, television, and other advertising, nec .................. | 7312,3,9 | 40.3 | 41.8 | 46.2 | 48.1 | 51.9 | 55.1 | 63.2 | 63.1 |
| Adjustment and collection services .......................................... | 7322 | ( ${ }^{1}$ | () | (') | ( ) | (') | (') | 55.7 | 62.6 |
| Credit reporting services | 7323 | (') | ${ }^{(1)}$ | (1) | (') | (') | (') | 35.5 | 37.1 |
| Direct mail advertising services. | 7331 | (') | (') | (') | (') | (') | $\left.{ }^{( }\right)$ | 88.4 | 86.9 |
| Photocopying and duplicating services | 7334 | (') | (') | () | (') | (') | ${ }^{(1)}$ | 38.7 | 45.0 |
| Commercial photography | 7335 | (1) | (') | (') | (') | (') | (') | 16.3 | 17.6 |
| Commercial art and graphic design | 7336 | () | (1) | (1) | (') | (') | (') | 40.7 | 45.3 |
| Secretanial and court reporting ........ | 7338 | (') | (') | ${ }^{(1)}$ | (') | (') | ${ }^{(1)}$ | 22.8 | 26.3 |
| Disinfecting and pest control services | 7342 | (') | () | () | (') | (') | () | 64.3 | 67.0 |
| Building maintenance services, nec. | 7349 | (') | (') | (') | (') | (') | (') | 692.9 | 723.0 |
| Miscellaneous equipment rental and leasing | 735 | (') | (') | ( ${ }^{\text {( }}$ | ( ${ }^{\text {( }}$ | (') | (') | 173.2 | 187.1 |
| Medical equipment rental .......................... | 7352 | (') | (') | (') | (1) | (') | (') | 19.7 | 20.7 |
| Heavy construction equipment rental | 7353 | (') | (') | (') | (') | (') | ${ }^{(1)}$ | 39.5 | 44.1 |
| Equipment rental and leasing, nec ......................................... | 7359 | (') | (') | (1) | (1) | (') | (') | 114.0 | 122.3 |
| Computer programming services ..... | 7371 | (') | (') | () | (') | (') | (') | 119.5 | 137.0 |
| Computer integrated systems design | 7373 | (') | () | () | (') | (1) | (') | 90.6 | 97.6 |
| Information retrieval services.. | 7375 | (') | () | (') | (') | (') | (') | 37.6 | 44.9 |
| Computer facilities management | 7376 | (') | (') | (') | (') | (') | (1) | 26.0 | 25.8 |
| Computer rental and leasing.. | 7377 | (') | (') | ${ }^{(1)}$ | (') | (') | (') | 10.3 | 11.7 |
| Computer maintenance and repair | 7378 | (') | (1) | (') | (') | (') | (') | 30.6 | 33.1 |
| Computer related services, nec | 7379 | (') | (') | (1) | (') | (') | (') | 69.8 | 78.1 |
| Security systems services ... | 7382 | (') | (') | (') | (') | (') | (') | 36.5 | 39.3 |
| News syndicates .............. | 7383 | 7.2 | 7.7 | 8.2 | 8.3 | 8.5 | 9.0 | 10.1 | 10.5 |
| Business services, nec | 7389 | 332.4 | 349.1 | 394.0 | 434.4 | 457.3 | 475.6 | 551.5 | 610.8 |
| Auto repair, services, and parking: |  |  |  |  |  |  |  |  |  |
| Passenger car rental | 7514 | (1) | (') | (') | (1) | (') | (1) | 88.6 | 95.0 |
| Passenger car leasing ............................................................. | 7515 | (') | (') | () | (') | (') | (') | 11.8 | 11.8 |
| Truck and utility trailer rental | 7513,9 | (') | (') | (1) | (') | (') | (') | 58.0 | 62.6 |
| Automobile parking ...... | 752 | 38.8 | 39.9 | 41.9 | 43.8 | 46.9 | 48.6 | 53.7 | 54.8 |
| Auto exhaust system repair shops | 7533 | (') | ()) | $\left.{ }^{1}\right)$ | (') | (') | ${ }^{(1)}$ | 20.3 | 20.2 |
| Automotive and tire repair shops ............................................. | 7532,4 | (') | (') | (1) | (1) | (') | (') | 167.6 | 175.4 |
| Automotive glass replacement shops ...................................... | 7536 | (') | (1) | (1) | (') | (') | (') | 14.7 | 17.6 |
| Automotive transmission repair shops ....................................... | 7537 | (') | (') | (') | ( ${ }^{\text {( }}$ | (') | (') | 22.8 | 23.5 |
| General automotive repair shops ...... | 7538 | 143.4 | 149.3 | 166.7 | 179.2 | 183.9 | 186.6 | 197.2 | 208.0 |
| Automotive repair shops, nec. | 7539 | (') | ${ }^{(1)}$ | ${ }^{1}$ ) | (') | (') | (') | 49.6 | 52.5 |
| Automotive services, except repair ........................................... | 754 | 62.8 | 65.2 | 76.4 | 88.0 | 97.6 | 115.5 | 134.1 | 151.6 |
| Carwashes .......................................................................... | 7542 | (') | (') | (') | (') | () | (') | 88.6 | 98.4 |
| Automotive services, nec ..................................................... | 7549 | (') | ( ${ }^{1}$ | (') | (') | (') | (') | 45.5 | 53.2 |
| Reupholstery and furniture repair ............................................ | 764 | 21.1 | 21.9 | 23.2 | 23.3 | 22.9 | 23.4 | 23.5 | 23.9 |
| Watch and miscellaneous repair shops .................................... | 763,9 | 181.6 | 167.9 | 184.5 | 191.8 | 192.5 | 189.8 | 211.6 | 230.7 |
| Motion pictures: |  |  |  |  |  |  |  |  |  |
| Motion picture distribution and services .................................... | 782 | 10.9 | 10.7 | 11.8 | 11.2 | 12.1 | $13.0$ | 17.8 | 12.2 |
| Video tape rental ........................................................................... | 784 | (') | (') | (') | (') | (') | $\left(^{\prime}\right)$ | 101.7 | 117.2 |
| Amusement and recreational services: |  |  |  |  |  |  |  |  |  |
| Dance studios, schools, and halls ............................................ | 791 | (') | (') | (') | (') | (') | ${ }^{(1)}$ | 19.8 | 21.4 |
| Producers, orchestras, and entertainers .................................... | 792 | 86.3 | 91.3 | 92.4 | 98.4 | 102.1 | 107.1 | 116.2 | 125.6 |
| Bowling centers .... | 793 | (') | (') | (') | ${ }^{(1)}$ | (') | ${ }^{(1)}$ | 100.2 | 100.9 |
| Commercial sports. | 794 | 64.0 | 65.2 | 69.3 | 68.6 | 74.0 | 73.0 | 74.9 | 85.8 |
| Physical fitness facilities .......................................................... | 7991 | ${ }^{(1)}$ | (') | (1) | ${ }^{(1)}$ | (') | (') | 112.5 | 123.5 |
| Public golf courses ......... | 7992 | () | () | () | () | (') | (1) | 27.2 | 29.9 |
| Coin-operated amusement devices | 7993 | () | (') | (1) | (') | (') | ${ }^{(1)}$ | 24.9 | 25.9 |
| Amusement parks ...... | 7996 | (') | (') | () | (') | (') | (') | 67.8 | 74.6 |
| Membership sports and recreation clubs ............................. | 7997 | (') | (') | () | () | (') | (') | 208.5 | 219.8 |
| Amusement and recreation, nec. ............................................. | 7999 | (') | (') | () | (') | (') | (') | 158.5 | 176.2 |

See footnotes at end of table.

Table 8. Employment benchmarks for industries not published monthly, March 1982-89—Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC Code } \end{gathered}$ | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Services-Continued |  |  |  |  |  |  |  |  |  |
| Health services: |  |  |  |  |  |  |  |  |  |
| Offices and clinics of osteopathic physicians ............................. | 803 | 26.3 | 27.5 | 28.7 | 29.4 | 30.7 | 32.3 | 33.3 | 34.2 |
| Offices and clinics of other health practitioners ......................... | 804 | 116.2 | 129.9 | 145.6 | 162.4 | 176.6 | 191.9 | 214.2 | 240.9 |
| Offices and clinics of chiropractors and optometrists ................ | 8041,2 | (') | (') | (1) | (1) | (1) | ${ }^{(1)}$ | 115.5 | 125.0 |
| Offices and clinics of podiatrists ............................................. | 8043 | () | (') | () | () | $\left.{ }^{1}\right)$ | ( ${ }^{\text {( }}$ | 20.0 | 21.2 |
| Offices and clinics of health practitioners, nec. ........................ | 8049 | (1) | (1) | (1) | () | () | $\left.{ }^{1}\right)$ | 78.7 | 94.7 |
| Intermediate care facilities ........................................................ | 8052 | ${ }^{(1)}$ | (') | (') | (') | (') | (') | 211.2 | 191.1 |
| Health and allied services, nec ................................................ | 809 | () | (') | (') | (') | (') | () | 198.6 | 218.5 |
| Specialty outpatient clinics, nec. ............................................. | 8093 | (') | (1) | (') | ${ }^{(1)}$ | (') | (') | 136.9 | 149.0 |
| Kidney dialysis centers and health and allied services, nec ...... | 8092,9 | (') | (') | (') | (') | (') | (') | 61.7 | 69.5 |
| Educational services: |  |  |  |  |  |  |  |  |  |
| Libraries ................................................................................. | 823 | ${ }^{(1)}$ | ${ }^{1}$ () | (') | (1) | (1) | (') | 14.4 | 13.9 |
| Schools and educational services, nec. ..................................... | 829 | (') | (') | (') | (') | (') | (') | 82.0 | 90.7 |
| Social services: |  |  |  |  |  |  |  |  |  |
| Child day care services ........................................................... | 835 | 298.2 | 302.7 | 314.7 | 338.7 | 360.7 | 381.0 | 409.3 | 439.1 |
| Social services, nec .................................................................. | 839 | (') | (') | (') | (') | (') | $\left.{ }^{( }\right)$ | 158.5 | 168.6 |
| Membership organizations: |  |  |  |  |  |  |  |  |  |
| Professional organizations | 862 | 35.9 | 36.6 | 37.7 | 39.6 | 41.8 | 43.7 | 46.8 | 48.6 |
| Religious organizations ............................................................ | 866 | 898.5 | 880.6 | 855.6 | 843.9 | 823.9 | 851.0 | 965.5 | 1,012.7 |
| Political and membership organizations , nec .............................. | 865,9 | 64.4 | 64.5 | 67.3 | 71.7 | 87.9 | 90.2 | 100.3 | 104.4 |
| Engineering and management services: |  |  |  |  |  |  |  |  |  |
| Engineering services | 8711 | (') | ${ }^{(1)}$ | (1) | (1) | (1) | (') | 539.0 | 579.1 |
| Architectural services .............................................................. | 8712 | (') | (1) | (') | (1) | (1) | (') | 119.3 | 124.7 |
| Surveying services . | 8713 | (') | ${ }^{(1)}$ | (1) | (') | ${ }^{(1)}$ | (') | 49.2 | 50.9 |
| Commercial nonphysical research ............................................ | 8732 | (') | (') | (') | (') | (') | (') | 88.6 | 94.6 |
| Testing laboratories ................................................................. | 8734 | 39.0 | 36.7 | 40.5 | 44.9 | 46.5 | 47.1 | 56.5 | 64.8 |
| Management services . | 8741 | (') | ${ }^{(1)}$ | (') | (1) | (1) | (') | 219.0 | 244.9 |
| Management consulting services .............................................. | 8742 | (') | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{(1)}$ | (') | (1) | 147.0 | 162.8 |
| Public relations services ........................................................... | 8743 | ${ }^{(1)}$ | (') | (') | (') | (') | ${ }^{(1)}$ | 30.6 | 31.8 |
| Facilities support services ........................................................ | 8744 | (') | (1) | (') | (') | (') | (') | 45.9 | 54.3 |
| Business consulting, nec ......................................................... | 8748 | (') | (') | (') | (') | (') | ${ }^{(1)}$ | 50.1 | 62.5 |
| Government ....................................................... |  | 16,196 | 16,189 | 16,216 | 16,596 | 16,946 | 17,254 | 17,654 | 18,011 |
| Federal: |  |  |  |  |  |  |  |  |  |
| Small arms ammunition and ordnance ........................................ |  | 21.2 | 22.1 | 22.2 | 19.1 | 19.1 | 17.3 | 17.0 | 16.9 |
| Other manufacturing ................................................................. |  | 30.2 | 30.3 | 31.5 | 31.7 | 31.9 | 31.5 | 31.5 | 24.6 |
| Trade ..................................................................................... |  | 80.6 | 79.3 | 78.2 | 79.7 | 77.3 | 79.2 | 81.0 | 74.5 |
| Finance ............................................................ |  | 21.5 | 20.7 | 20.6 | 20.6 | 22.2 | 24.5 | 25.4 | 23.8 |
| Other services ........................................................................ |  | 153.6 | 164.3 | 159.6 | 158.9 | 159.2 | 166.7 | 172.7 | 162.7 |
| All other Federal Government, except Postal Service ............... |  | 1,513.2 | 1,528.3 | 1,530.2 | 1,434.5 | 1,451.4 | 1,422.7 | 1404.0 | 1,502.2 |
| State: |  |  |  |  |  |  |  |  |  |
| State government, except education ......................................... |  | 2,198.8 | 2,197.7 | 2,217.4 | 2,263.2 | 2,300.9 | 2,341.0 | 2,418.9 | 2,479.0 |
| Construction ............................................................................ |  | 259.8 | 248.1 | 237.4 | 228.3 | 207.6 | 189.1 | 169.3 | 145.5 |
| Transportation and public utilities ................................................ |  | 41.3 | 44.0 | 46.2 | 45.4 | 45.6 | 45.0 | 47.7 | 46.4 |
| Services .................................................................................... |  | ${ }^{(1)}$ | ${ }^{(1)}$ | (') | ${ }^{(1)}$ | (1) | $\left.{ }^{( }\right)$ | 2,477.0 | 2,545.0 |
| Social services .......................................................................... |  | 191.2 | 178.0 | 180.8 | 183.6 | 175.3 | 173.9 | 184.8 | 198.9 |
| Services, except hospitals, education, and social services ............ |  | 124.4 | 123.7 | 122.9 | 124.2 | 125.8 | 119.4 | 116.1 | 119.6 |
| Local: |  |  |  |  |  |  |  |  |  |
| Local government, except education .......................................... |  | 4,215.1 | 4,218.3 | 4,189.6 | 4,231.4 | 4,295.8 | 4,381.3 | 4,501.2 | 4,600.7 |
| Services .................................................................................... |  | $\left.{ }^{( }\right)$ | (') | ${ }^{(1)}$ | ${ }^{(1)}$ | ${ }^{1}$ ) | ${ }^{(1)}$ | 6,969.2 | 7,128.6 |
| Social services ..................................................................... |  | 136.4 | 125.8 | 114.1 | 117.9 | 114.7 | 114.9 | 112.7 | 109.4 |
| Services, except hospitals, education, and social services ......... |  | 158.7 | 166.2 | 166.9 | 177.9 | 187.9 | 198.3 | 203.0 | 214.4 |
| Nonclassifiable establishments .................................................. |  | 203.4 | 144.8 | 110.3 | 199.5 | 187.3 | 245.7 | 179.3 | 214.5 |

${ }^{1}$ Not available.
N.e.c. is an abbreviation for "not elsewhere classified" and designates broad categories of industries which cannot be more specifically identified.

NOTE: This table includes data for totals and some industry divisions which are published regularly.

Table 9. Seasonal adjustment factors for employees on nonfarm payrolis by industry

| Industry | 1990 |  |  |  |  | 1991 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Total ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Mining | 101.8 | 101.3 | 101.3 | 101.0 | 100.1 | 98.5 | 97.9 | 98.0 | 98.9 |
| Oil and gas extraction ................................................ | 101.1 | 100.8 | 100.8 | 101.1 | 101.0 | 99.6 | 98.8 | 98.3 | 98.6 |
| Construction | 106.6 | 105.2 | 104.8 | 102.7 | 98.6 | 92.3 | 90.3 | 92.4 | 97.0 |
| General building contractors ....................................... | 105.7 | 103.7 | 103.6 | 102.2 | 99.8 | 94.5 | 92.7 | 93.8 | 96.2 |
| Manufacturing ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Durable goods ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Lumber and wood products ........................................ | 102.4 | 101.8 | 100.9 | 100.1 | 99.1 | 97.8 | 97.5 | 97.8 | 98.5 |
| Furniture and fixtures . | 99.5 | 100.2 | 100.7 | 101.1 | 100.9 | 100.2 | 100.1 | 100.1 | 99.9 |
| Stone, clay, and glass products ${ }^{2}$............................... | 101.9 | 102.1 | 101.3 | 100.8 | 99.0 | 96.6 | 96.1 | 97.7 | 99.7 |
| Primary metal industries | 99.9 | 100.3 | 99.9 | 100.0 | 100.2 | 99.8 | 99.9 | 100.1 | 100.0 |
| Blast furnaces and basic steel products .................... | 100.5 | 100.1 | 99.4 | 99.4 | 100.0 | 100.0 | 99.7 | 99.8 | 99.7 |
| Fabricated metal products .. | 99.6 | 100.4 | 100.5 | 100.6 | 100.5 | 99.3 | 99.6 | 99.8 | 99.9 |
| Industrial machinery and equipment | 99.5 | 99.7 | 99.7 | 100.0 | 100.3 | 100.0 | 100.2 | 100.2 | 100.1 |
| Electronic and other electrical equipment ..................... | 100.1 | 100.3 | 100.5 | 100.7 | 100.5 | 100.0 | 99.7 | 99.6 | 99.5 |
| Transportation equipment .......................................... | 98.9 | 100.2 | 100.0 | 100.5 | 100.8 | 99.3 | 99.9 | 100.0 | 100.5 |
| Motor vehicles and equipment .................................. | 98.1 | 100.9 | 100.4 | 100.8 | 101.1 | 97.7 | 99.5 | 99.8 | 101.1 |
| Instruments and related products ................................ | 100.3 | 99.9 | 99.9 | 100.1 | 100.3 | 99.9 | 99.8 | 99.8 | 99.8 |
| Miscellaneous manufacturing ..................................... | 101.0 | 101.5 | 102.1 | 101.8 | 99.5 | 97.8 | 98.8 | 99.6 | 99.8 |
| Nondurable goods ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Food and kindred products ....................................... | 104.9 | 104.9 | 102.8 | 101.0 | 99.4 | 97.3 | 96.7 | 96.5 | 96.6 |
| Tobacco products ..................................................... | 99.5 | 104.6 | 105.6 | 103.8 | 106.3 | 105.3 | 102.3 | 98.1 | 94.1 |
| Textile mill products | 100.3 | 100.5 | 100.4 | 100.3 | 100.0 | 99.8 | 99.8 | 99.8 | 99.9 |
| Apparel and other textile products ............................. | 100.0 | 100.4 | 100.7 | 100.8 | 100.2 | 99.3 | 100.0 | 100.1 | 100.3 |
| Paper and allied products. | 100.6 | 100.1 | 100.1 | 100.1 | 100.2 | 99.5 | 99.5 | 99.5 | 99.5 |
| Printing and publishing ...... | 99.7 | 99.5 | 99.8 | 100.4 | 100.5 | 100.0 | 100.0 | 100.1 | 100.1 |
| Chemicals and allied products | 100.7 | 100.1 | 99.8 | 99.7 | 99.8 | 99.4 | 99.6 | 99.8 | 99.7 |
| Petroleum and coal products ..................................... | 102.2 | 101.4 | 101.1 | 100.4 | 98.7 | 97.2 | 97.2 | 98.1 | 99.1 |
| Rubber and misc. plastics products ............................ | 99.7 | 100.0 | 100.3 | 100.3 | 100.3 | 99.6 | 99.7 | 99.9 | 100.3 |
| Leather and leather products ..................................... | 101.6 | 101.3 | 101.4 | 101.1 | 99.8 | 98.9 | 99.5 | 99.6 | 99.5 |
| Transportation and public utilities ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Transportation ........................................................... | 99.6 | 101.2 | 101.4 | 101.2 | 101.4 | 98.5 | 98.4 | 98.8 | 99.4 |
| Communications and public utilities .............................. | 100.9 | 100.1 | 100.0 | 100.0 | 99.9 | 99.4 | 99.4 | 99.4 | 99.5 |
| Wholesale trade ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Durable goods .......................................................... | 100.4 | 99.9 | 100.0 | 100.0 | 100.0 | 99.5 | 99.5 | 99.8 | 99.8 |
| Nondurable goods ...................................................... | 100.7 | 100.6 | 100.7 | 100.4 | 100.0 | 98.9 | 98.7 | 99.0 | 99.6 |
| Retail trade.. | 100.6 | 100.2 | 100.1 | 101.6 | 103.2 | 98.6 | 97.6 | 98.0 | 98.9 |
| General merchandise stores ........................................ | 97.8 | 98.0 | 100.3 | 106.7 | 111.7 | 102.8 | 97.0 | 96.4 | 96.7 |
| Food stores ............. | 100.1 | 99.8 | 100.2 | 101.2 | 102.2 | 99.7 | 99.1 | 98.9 | 98.9 |
| Automotive dealers and service stations ...................... | 101.2 | 100.7 | 100.4 | 99.8 | 99.4 | 98.8 | 98.6 | 99.0 | 99.6 |
| Eating and drinking places ........................................... | 102.9 | 102.2 | 99.8 | 99.3 | 99.5 | 95.6 | 96.2 | 97.8 | 99.5 |
| Finance, insurance, and real estate' |  |  |  |  |  |  |  |  |  |
| Finance ..................................................................... | 100.7 | 99.8 | 99.6 | 99.8 | 100.0 | 99.7 | 99.7 | 99.8 | 99.7 |
| Insurance ................................................................... | 100.3 | 99.7 | 99.7 | 99.8 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| Real estate ................................................................ | 104.0 | 101.7 | 100.0 | 99.2 | 98.8 | 96.6 | 96.4 | 97.2 | 98.7 |
| Services | 100.5 | 100.2 | 100.3 | 99.9 | 99.6 | 98.3 | 99.1 | 99.7 | 100.3 |
| Business services ....................................................... | 101.1 | 101.2 | 101.2 | 100.7 | 100.4 | 98.3 | 98.3 | 98.8 | 99.1 |
| Health services ........................................................... | 100.3 | 100.0 | 99.9 | 100.0 | 99.9 | 99.7 | 99.8 | 99.9 | 99.8 |
| Government ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Federal ...................................................................... | 100.5 | 99.6 | 99.4 | 99.6 | 99.9 | 99.3 | 99.5 | 99.7 | 99.9 |
| State .......................................................................... | 94.6 | 98.5 | 102.3 | 102.9 | 101.9 | 98.9 | 102.2 | 102.7 | 102.7 |
| Local ..................................................................... | 91.6 | 98.2 | 101.4 | 102.5 | 102.1 | 100.5 | 102.0 | 102.5 | 102.2 |

' Seasonally adjusted data are derived by aggregation of the component series.
${ }^{2}$ No ARIMA models were identified to extend the unadjusted
series for one year. Factors shown are projected using X-11 without the ARIMA option.

Table 10. Seasonal adjustment factors for women employees on nonfarm payrolls by industry

| Industry | 1990 |  |  |  |  | 1991 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Total ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Mining ........................................................................ | 101.4 | 100.2 | 99.7 | 99.8 | 99.5 | 98.8 | 99.1 | 99.4 | 99.4 |
| Construction ............................................................. | 102.3 | 101.4 | 101.3 | 100.5 | 99.6 | 97.5 | 97.1 | 97.6 | 98.9 |
| Manufacturing' |  |  |  |  |  |  |  |  |  |
| Durable goods' |  |  |  |  |  |  |  |  |  |
| Lumber and wood products ........................................ | 101.6 | 101.3 | 100.5 | 99.6 | 99.4 | 98.3 | 97.7 | 98.6 | 99.5 |
| Furniture and fixtures ................................................ | 98.8 | 99.9 | 100.6 | 101.2 | 101.1 | 100.4 | 100.1 | 100.1 | 100.3 |
| Stone, clay, and glass products ................................. | 101.2 | 100.7 | 100.8 | 100.8 | 100.3 | 98.7 | 98.4 | 98.5 | 99.2 |
| Primary metal industries ............................................ | 100.5 | 100.4 | 100.0 | 100.1 | 99.8 | 99.1 | 99.6 | 100.0 | 100.3 |
| Fabricated metal products ......................................... | 99.8 | 100.3 | 100.5 | 100.8 | 100.3 | 99.3 | 99.5 | 99.8 | 99.9 |
| Industrial machinery and equipment | 99.6 | 99.5 | 99.7 | 100.2 | 100.4 | 99.9 | 100.2 | 100.0 | 100.0 |
| Electronic and other electrical equipment .................... | 100.0 | 100.4 | 100.6 | 100.7 | 100.5 | 100.0 | 99.7 | 99.7 | 99.6 |
| Transportation equipment .......................................... | 99.1 | 100.1 | 100.0 | 100.5 | 100.6 | 99.2 | 100.2 | 100.0 | 100.4 |
| Instruments and related products ............................... | 100.2 | 100.2 | 100.3 | 100.5 | 100.6 | 99.9 | 99.7 | 99.7 | 99.7 |
| Miscellaneous manufacturing ..................................... | 101.3 | 102.0 | 103.5 | 102.7 | 99.4 | 96.8 | 98.3 | 99.2 | 99.5 |
| Nondurable goods ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Food and kindred products ${ }^{2}$....................................... | 107.3 | 107.8 | 104.6 | 102.1 | 99.4 | 96.0 | 95.2 | 94.8 | 94.7 |
| Tobacco products .................................................... | 99.0 | 107.5 | 109.2 | 107.3 | 106.8 | 106.0 | 103.8 | 96.9 | 91.4 |
| Textile mill products ................................................. | 100.3 | 100.5 | 100.6 | 100.5 | 99.9 | 99.3 | 99.6 | 100.0 | 99.9 |
| Apparel and other textile products | 99.7 | 100.2 | 100.7 | 100.7 | 100.2 | 99.5 | 100.2 | 100.4 | 100.5 |
| Paper and allied products .......................................... | 101.2 | 100.6 | 100.7 | 100.5 | 100.2 | 98.6 | 98.5 | 99.0 | 99.2 |
| Printing and publishing ............ | 99.7 | 99.4 | 99.6 | 100.3 | 100.4 | 99.9 | 100.0 | 100.1 | 100.4 |
| Chemicals and allied products ${ }^{2}$ | 101.0 | 100.5 | 100.0 | 99.7 | 99.6 | 99.2 | 99.3 | 99.5 | 99.4 |
| Petroleum and coal products. | (3) | (3) | ${ }^{(3)}$ | () | (3) | ( ${ }^{3}$ ) | $\left({ }^{3}\right)$ | (3) | (3) |
| Rubber and misc. plastics products ............................ | 99.2 | 99.8 | 100.5 | 100.5 | 100.3 | 99.7 | 99.9 | 100.3 | 100.2 |
| Leather and leather products ....................................... | 101.7 | 102.0 | 102.3 | 101.5 | 99.6 | 98.5 | 99.0 | 99.2 | 99.3 |
| Transportation and public utilites ............................ | 98.7 | 100.4 | 100.7 | 100.5 | 100.5 | 99.6 | 99.7 | 99.8 | 99.9 |
| Wholesale trade ........................................................ | 100.0 | 100.1 | 100.6 | 100.7 | 100.6 | 99.4 | 99.4 | 99.6 | 99.5 |
| Retall trade ............................................................... | 100.4 | 100.2 | 100.3 | 102.5 | 104.4 | 98.9 | 97.2 | 97.5 | 98.4 |
| Finance, insurance, and real estate ........................... | 100.7 | 99.9 | 99.7 | 99.8 | 100.1 | 99.5 | 99.5 | 99.7 | 99.7 |
| Services ${ }^{2}$.................................................................... | 99.8 | 100.0 | 100.3 | 100.1 | 99.9 | 99.0 | 99.7 | 100.2 | 100.3 |
| Government ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| Federal | 100.7 | 99.7 | 100.0 | 100.1 | 100.2 | 99.4 | 99.2 | 99.2 | 99.3 |
| State | 93.8 | 98.3 | 102.4 | 103.0 | 102.2 | 99.4 | 102.6 | 103.1 | 102.9 |
| Local ...................................................................... | 87.2 | 97.7 | 102.3 | 103.7 | 103.2 | 101.6 | 103.3 | 103.8 | 103.5 |

${ }^{1}$ Seasonally adjusted data are derived by aggregation of the component series.
${ }^{2}$ No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.
${ }^{3}$ Seasonal adjustment factors are not computed because the seasonal component is small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.

Table 11. Seasonal adjustment factors for production or nonsupervisory workers' on private nonfarm payrolls by industry

| Industry | 1990 |  |  |  |  | 1991 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Total private ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Mining ....................................................................... | $\begin{aligned} & 102.2 \\ & 108.1 \end{aligned}$ | 101.8 | 101.6 | 101.6 | 100.2 | 98.0 | 97.2 | 97.4 | 98.8 |
| Construction ................................................... |  | 106.6 | 106.0 | 103.5 | 98.3 | 90.6 | 88.1 | 90.4 | 96.3 |
| Manufacturing ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Durable goods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Lumber and wood products ........................................ | 102.9 | 102.1 | 101.0 | 100.0 | 98.9 | 97.6 | 97.2 | 97.4 | 98.3 |
| Furniture and fixtures ................................................ | 99.4 | 100.2 | 100.8 | 101.3 | 101.2 | 100.3 | 100.0 | 100.1 | 99.9 |
| Stone, clay, and glass products ${ }^{3}$ | 102.3 | 102.3 | 101.6 | 100.9 | 98.7 | 96.0 | 95.3 | 97.4 | 99.7 |
| Primary metal industries... | 99.9 | 100.5 | 99.9 | 100.1 | 100.3 | 99.7 | 99.9 | 100.2 | 100.1 |
| Blast furnaces and basic steel products .................... | 100.6 | 100.3 | 99.0 | 99.2 | 99.9 | 100.1 | 99.8 | 99.9 | 99.9 |
| Fabricated metal products ................ | 99.6 | 100.6 | 100.8 | 100.8 | 100.7 | 99.0 | 99.5 | 99.7 | 99.8 |
| Industrial machinery and equipment | 99.0 | 99.8 | 99.7 | 100.0 | 100.5 | 100.3 | 100.4 | 100.4 | 100.2 |
| Electronic and other electrical equipment ................... | 99.7 | 100.2 | 100.4 | 100.7 | 100.4 | 100.4 | 100.0 | 100.0 | 99.7 |
| Transportation equipment .......................................... | 97.9 | 100.3 | 100.1 | 100.8 | 101.1 | 98.8 | 100.1 | 100.1 | 101.0 |
| Motor vehicles and equipment | 97.4 | 101.0 | 100.5 | 101.2 | 101.4 | 97.4 | 99.4 | 99.9 | 101.5 |
| Instruments and related products ............................... | 100.2 | 100.5 | 100.7 | 100.8 | 101.0 | 99.8 | 99.5 | 99.3 | 99.3 |
| Miscellaneous manufacturing ..................................... | 101.2 | 102.0 | 102.5 | 102.2 | 99.3 | 97.1 | 98.8 | 99.5 | 99.9 |
| Nondurable goods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Food and kindred products ....................................... | 106.4 | 106.5 | 103.9 | 101.4 | 99.2 | 96.5 | 95.8 | 95.5 | 95.7 |
| Tobacco products ... | 99.3 | 105.9 | 106.9 | 105.9 | 107.8 | 107.4 | 102.8 | 98.2 | 93.0 |
| Textile mill products ...... | 100.4 | 100.5 | 100.4 | 100.3 | 99.9 | 99.8 | 99.7 | 99.9 | 99.9 |
| Apparel and other textile products | 99.9 | 100.5 | 100.8 | 100.9 | 100.1 | 99.2 | 100.0 | 100.3 | 100.4 |
| Paper and allied products .......................................... | 100.7 | 100.1 | 100.2 | 100.4 | 100.2 | 99.3 | 99.3 | 99.3 | 99.3 |
| Printing and publishing .......... | 99.4 | 99.3 | 99.6 | 100.4 | 100.8 | 100.0 | 100.1 | 100.3 | 100.4 |
| Chemicals and allied products | 100.9 | 100.3 | 99.7 | 99.5 | 99.7 | 99.3 | 99.6 | 99.9 | 99.6 |
| Petroleum and coal products | 102.9 | 102.0 | 101.7 | 100.6 | 98.3 | 96.5 | 96.1 | 97.3 | 98.7 |
| Rubber and misc. plastics products ............................ | 99.6 | 100.1 | 100.4 | 100.4 | 100.4 | 99.5 | 99.6 | 100.1 | 100.4 |
| Leather and leather products ..................................... | 101.7 | 101.7 | 101.4 | 101.3 | 99.7 | 98.8 | 99.2 | 99.5 | 99.5 |
| Transportation and public utilities ............................ | 100.2 | 101.0 | 101.1 | 100.9 | 101.0 | 98.6 | 98.5 | 98.8 | 99.4 |
| Wholesale trade ${ }^{3}$....................................................... | 100.7 | 100.3 | 100.3 | 100.2 | 100.0 | 99.0 | 99.0 | 99.2 | 99.7 |
| Retall trade ................................................................ | 100.7 | 100.2 | 100.1 | 101.8 | 103.5 | 98.5 | 97.4 | 97.8 | 98.7 |
| Finance, insurance, and real estate ${ }^{3}$.......................... | 101.6 | 100.2 | 99.7 | 99.6 | 99.8 | 98.9 | 98.8 | 99.1 | 99.4 |
| Services .................................................................... | 100.6 | 100.2 | 100.3 | 99.9 | 99.6 | 98.1 | 99.0 | 99.7 | 100.3 |

1 Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
${ }^{2}$ Seasonally adjusted data are derived by aggregation of the
component series.
${ }^{3}$ No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using $X-11$ without the ARIMA option.

Table 12. Seasonal adjustment factors for average weekly hours of production or nonsupervisory workers' on private nonfarmi payrolls by industry

| Industry | 1990 |  |  |  |  | 1991 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Total private ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Mining ${ }^{3}$....................................................................... | $\begin{aligned} & 100.3 \\ & \left({ }^{4}\right) \end{aligned}$ | $\begin{aligned} & 100.9 \\ & \text { ( } \left.^{4}\right) \end{aligned}$ | $\begin{aligned} & 101.3 \\ & \left({ }^{4}\right) \end{aligned}$ | $\begin{aligned} & 100.2 \\ & \left({ }^{4}\right) \end{aligned}$ | $101.6$ <br> ( ${ }^{4}$ ) | $\begin{aligned} & 100.0 \\ & \left({ }^{4}\right) \end{aligned}$ | $\begin{aligned} & 98.9 \\ & \left({ }^{4}\right) \end{aligned}$ | $\begin{aligned} & 98.9 \\ & \text { ( } \left.^{4}\right) \end{aligned}$ | $\begin{aligned} & 99.3 \\ & \left({ }^{4}\right) \end{aligned}$ |
| Construction |  |  |  |  |  |  |  |  |  |
| Manufacturing ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Durable goods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Lumber and wood products ... | 100.6 | 100.6 | 100.9 | 99.8 | 100.5 | 98.8 | 98.0 | 99.6 | 100.3 |
| Furniture and fixtures | 100.5 | 101.5 | 101.5 | 101.1 | 102.7 | 99.3 | 98.7 | 99.5 | 99.0 |
| Stone, clay, and glass products ................................. | 100.9 | 101.2 | 101.6 | 100.6 | 99.5 | 97.9 | 97.3 | 98.9 | 100.2 |
| Primary metal industries ${ }^{35}$.......................................... | 99.1 | 100.4 | 99.7 | 100.5 | 101.3 | 100.3 | 99.6 | 100.1 | 99.6 |
| Blast furnaces and basic steel products ${ }^{5}$.................... | 99.3 | 100.0 | 99.3 | 100.0 | 100.7 | 100.3 | 99.6 | 99.8 | 99.7 |
| Fabricated metal products ......................................... | 99.2 | 100.4 | 100.4 | 101.2 | 102.0 | 99.9 | 99.2 | 99.9 | 99.9 |
| Industrial machinery and equipment ........................... | 98.7 | 100.2 | 99.7 | 100.5 | 102.1 | 100.3 | 99.8 | 100.2 | 99.9 |
| Electronic and other electrical equipment .................... | 99.5 | 100.3 | 100.4 | 101.0 | 102.4 | 100.4 | 99.4 | 100.0 | 99.2 |
| Transportation equipment ......... | 98.2 | 100.3 | 100.0 | 100.8 | 102.0 | 99.7 | 99.5 | 100.8 | 100.5 |
| Motor vehicles and equipment .................................. | 97.1 | 101.1 | 100.9 | 101.5 | 101.6 | 99.3 | 99.1 | 101.1 | 101.0 |
| Instruments and related products ................................ | 99.1 | 100.1 | 100.1 | 100.9 | 102.0 | 100.1 | 99.9 | 100.2 | 100.1 |
| Miscellaneous manufacturing ..................................... | 99.6 | 100.0 | 101.0 | 101.4 | 101.6 | 99.6 | 99.3 | 100.0 | 99.9 |
| Nondurable goods ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Food and kindred products | 101.2 | 101.7 | 100.9 | 101.1 | 101.4 | 99.2 | 97.9 | 98.5 | 98.5 |
| Tobacco products | ${ }^{4}$ ) | ${ }^{4}$ ) | ${ }^{4}$ ) | $\left.{ }^{4}\right)$ | ${ }^{(1)}$ | $\left({ }^{4}\right)$ | ( ${ }^{\text {a }}$ | $\left({ }^{4}\right)$ | ${ }^{4}$ ) |
| Textile mill products ${ }^{8}$ | 100.8 | 101.2 | 100.7 | 100.9 | 100.8 | 99.4 | 99.0 | 99.5 | 99.8 |
| Apparel and other textile products ${ }^{\text {e }}$............................. | 100.2 | 100.2 | 100.6 | 100.9 | 100.9 | 99.2 | 99.4 | 99.7 | 99.7 |
| Paper and allied products ${ }^{8}$ | 99.3 | 101.1 | 100.3 | 100.7 | 101.7 | 100.4 | 99.3 | 99.3 | 99.5 |
| Printing and publishing ${ }^{5}$........ | 100.3 | 101.2 | 100.2 | 100.7 | 101.6 | 99.3 | 99.4 | 100.4 | 99.8 |
| Chemicals and allied products ${ }^{36}$................................ | 99.3 | 100.0 | 99.8 | 100.7 | 101.5 | 100.1 | 99.8 | 100.0 | 100.0 |
| Petroleum and coal products | (*) | ( ${ }^{4}$ ) | ${ }^{(4)}$ | ${ }^{(4)}$ | ${ }^{4}$ ) | ${ }^{(4)}$ | ( ${ }^{4}$ ) | $\left({ }^{4}\right)$ | $\left({ }^{4}\right)$ |
| Rubber and misc. plastics products ............................ | 99.4 | 100.5 | 100.4 | 100.6 | 101.2 | 99.9 | 99.4 | 99.9 | 100.0 |
| Leather and leather products ..................................... | 100.9 | 99.9 | 100.5 | 99.7 | 101.0 | 99.4 | 98.9 | 98.9 | 99.0 |
| Transportation and public utilities ${ }^{\text {3 }}$ 8.......................$~$ | 100.7 | 100.3 | 100.5 | 100.3 | 100.3 | 98.7 | 99.1 | 99.3 | 99.8 |
| Wholesale trade ${ }^{3}$. | 100.0 | 100.2 | 100.4 | 100.1 | 100.3 | 99.5 | 99.4 | 99.6 | 100.1 |
| Retail trade ${ }^{56}$. | 102.6 | 100.0 | 99.9 | 99.1 | 101.7 | 97.6 | 98.0 | 98.3 | 99.5 |
| Finance, insurance, and real estate .......................... | ( ${ }^{4}$ ) | (4) | (4) | (4) | (4) | $\left({ }^{4}\right)$ | ( ${ }^{4}$ ) | ( ${ }^{4}$ ) | ( ${ }^{4}$ |
| Services ${ }^{5}$................................................................. | 100.8 | 99.8 | 100.2 | 99.8 | 99.8 | 99.6 | 99.5 | 99.6 | 100.1 |

${ }^{1}$ Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
${ }^{2}$ Seasonally adjusted data are derived by aggregation of the component series.
${ }^{3}$ No moving-holiday adjustment was done for April because there was no evidence of significant effects associated with the relative timing of Easter and the reference period of the payroll survey.
${ }^{4}$ Seasonal adjustment factors are not computed because the
seasonal component is small relative to the trend-cycle and/or ireguiar components and consequently cannot be separated with sufficient precision.
${ }^{5}$ No moving-holiday adjustment was done for September because there was no evidence of significant effects associated with the relative timing of Labor Day and the reference period of the payroll survey.

No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using X-11 without the ARIMA option.

Table 13. Seasonal adjustment factors for average weekly overtime hours of production workers on manufacturing payrolls

| Industry group | 1990 |  |  |  |  | 1991 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Manufacturing ${ }^{\text { }}$ |  |  |  |  |  |  |  |  |  |
| Durable goods $\qquad$ Nondurable goods² | $\begin{aligned} & 100.1 \\ & 105.1 \end{aligned}$ | $\begin{aligned} & 108.4 \\ & 112.6 \end{aligned}$ | $\begin{aligned} & 104.2 \\ & 105.5 \end{aligned}$ | $\begin{aligned} & 105.6 \\ & 105.2 \end{aligned}$ | $\begin{aligned} & 108.4 \\ & 103.3 \end{aligned}$ | 96.1 95.8 | 94.9 91.9 | 98.1 95.6 | 96.3 93.2 |

${ }^{1}$ Seasonally adjusted data are derived by aggregation of the component series.
${ }^{2}$ No moving-holiday adjustment was done for September
because there was no evidence of significant effects associated with the relative timing of Labor Day and the reference period of the payroll survey.

Table 14. Seasonal adjustment factors for average hourly earnings of production or nonsupervisory workers'on private nonfarm payrolls by industry

| Industry division | 1990 |  |  |  |  | 1991 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. |
| Total private ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
| Mining ........................................................................ | 99.3 | 99.9 | 99.3 | 99.6 | 100.5 | 100.9 | 101.0 | 100.4 | 100.5 |
| Construction ............................................................. | 99.7 | 100.7 | 100.7 | 100.2 | 100.6 | 100.3 | 99.7 | 99.8 | 99.7 |
| Manufacturing ............................................................ | 99.3 | 100.1 | 99.8 | 100.1 | 100.5 | 100.2 | 100.1 | 100.2 | 100.0 |
| Excluding overtime ................................................. | 99.3 | 99.8 | 99.6 | 99.9 | 100.3 | 100.3 | 100.2 | 100.2 | 100.3 |
| Transportation and public utilities ............................ | 99.7 | 100.4 | 100.3 | 100.4 | 100.2 | 100.1 | 100.3 | 99.7 | 100.0 |
| Wholesale trade ${ }^{3}$....................................................... | 99.4 | 100.0 | 99.8 | 100.1 | 100.2 | 100.4 | 100.3 | 99.9 | 100.4 |
| Retail trade ............................................................... | 99.0 | 100.3 | 100.2 | 100.2 | 100.1 | 100.8 | 100.4 | 100.2 | 100.2 |
| Finance, Insurance, and real estate ${ }^{3}$.......................... | 99.0 | 99.5 | 99.9 | 100.2 | 99.8 | 100.8 | 101.1 | 100.2 | 100.9 |
| Services ${ }^{\mathbf{3}}$.................................................................... | 98.5 | 100.0 | 100.3 | 100.6 | 100.7 | 101.0 | 100.8 | 100.4 | 100.3 |

${ }^{1}$ Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
${ }^{2}$ Seasonally adjusted data are derived by aggregation of the
component series.
${ }_{3}$ No ARIMA models were identified to extend the unadjusted series for one year. Factors shown are projected using $X$ - 11 without the ARIMA option.

## A-1. Employment status of the noninstitutional population 16 years and over, 1956 to date

(Numbers in thousands)

| Year and month | Noninstitutional population | Labor force |  |  |  |  |  |  |  |  | Not in labor force |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number | $\begin{gathered} \text { Percent } \\ \text { of } \\ \text { population } \end{gathered}$ | Total | Resident Armed Forces | Employed |  |  | Unemployed |  |  |
|  |  |  |  |  |  |  | Civilia |  |  | Percent |  |
|  |  |  |  |  |  | Total | Agriculture | Nonagricultural industries | Number | labor force |  |
|  | Annual averages |  |  |  |  |  |  |  |  |  |  |
| 1956 | 112,919 | 68,517 | 60.7 | 65,764 | 1,965 | 63,799 | 6,283 | 57,514 | 2,750 | 4.0 | 44,402 |
| 1957 | 114,213 | 68,877 | 60.3 | 66,019 | 1,948 | 64,071 | 5,947 | 58,123 | 2,859 | 4.2 | 45,336 |
| 1958 | 115,574 | 69,486 | 60.1 | 64,883 | 1,847 | 63,036 | 5,586 | 57,450 | 4,602 | 6.6 | 46,088 |
| 1959 ........................... | 117,117 | 70,157 | 59.9 | 66,418 | 1,788 | 64,630 | 5,565 | 59,065 | 3,740 | 5.3 | 46,960 |
| 1960' .......................... | 119,106 | 71,489 | 60.0 | 67,639 | 1,861 | 65,778 | 5,458 | 60,318 | 3,852 | 5.4 | 47,617 |
| 1961 | 120,671 | 72,359 | 60.0 | 67,646 | 1,900 | 65,746 | 5,200 | 60,546 | 4,714 | 6.5 | 48,312 |
| 1962 ${ }^{1}$.......................... | 122,214 | 72,675 | 59.5 | 68,763 | 2,061 | 66,702 | 4,944 | 61,759 | 3,911 | 5.4 | 49,539 |
| 1963 ........................... | 124,422 | 73,839 | 59.3 | 69,768 | 2,006 | 67,762 | 4,687 | 63,076 | 4,070 | 5.5 | 50,583 |
| 1964 | 126,503 | 75,109 | 59.4 | 71,323 | 2,018 | 69,305 | 4,523 | 64,782 | 3,786 | 5.0 | 51,394 |
| 1965 ... | 128,459 | 76,401 | 59.5 | 73,034 | 1,946 | 71,088 | 4,361 | 66,726 | 3,366 | 4.4 | 52,058 |
| 1966 ... | 130,180 | 77,892 | 59.8 | 75,017 | 2,122 | 72,895 | 3,979 | 68,915 | 2,875 | 3.7 | 52,288 |
| 1967 | 132,092 | 79,565 | 60.2 | 76,590 | 2,218 | 74,372 | 3,844 | 70,527 | 2,975 | 3.7 | 52,527 |
| 1968 ... | 134,281 | 80,990 | 60.3 | 78,173 | 2,253 | 75,920 | 3,817 | 72,103 | 2,817 | 3.5 | 53,291 |
| 1969 ........................... | 136,573 | 82,972 | 60.8 | 80,140 | 2,238 | 77,902 | 3,606 | 74,296 | 2,832 | 3.4 | 53,602 |
| 1970 ........................... | 139,203 | 84,889 | 61.0 | 80,796 | 2,118 | 78,678 | 3,463 | 75,215 | 4,093 | 4.8 | 54,315 |
| 1971 .......................... | 142,189 | 86,355 | 60.7 | 81,340 | 1,973 | 79,367 | 3,394 | 75,972 | 5,016 | 5.8 | 55,834 |
| 1972 ${ }^{1}$........................... | 145,939 | 88,847 | 60.9 | 83,966 | 1,813 | 82,153 | 3,484 | 78,669 | 4,882 | 5.5 | 57,091 |
| $1973^{1}$.......................... | 148,870 | 91,203 | 61.3 | 86,838 | 1,774 | 85,064 | 3,470 | 81,594 | 4,365 | 4.8 | 57,667 |
| 1974 ........................... | 151,841 | 93,670 | 61.7 | 88,515 | 1,721 | 86,794 | 3,515 | 83,279 | 5,156 | 5.5 | 58,171 |
| 1975 ........................... | 154,831 | 95,453 | 61.6 | 87,524 | 1,678 | 85,846 | 3,408 | 82,438 | 7,929 | 8.3 | 59,377 |
| 1976 ........................... | 157,818 | 97,826 | 62.0 | 90,420 | 1,668 | 88,752 | 3,331 | 85,421 | 7,406 | 7.6 | 59,991 |
| 1977 .. | 160,689 | 100,665 | 62.6 | 93,673 | 1,656 | 92,017 | 3,283 | 88,734 | 6,991 | 6.9 | 60,025 |
| $1978{ }^{1}$.......................... | 163,541 | 103,882 | 63.5 | 97,679 | 1,631 | 96,048 | 3,387 | 92,661 | 6,202 | 6.0 | 59,659 |
| 1979 .......................... | 166,460 | 106,559 | 64.0 | 100,421 | 1,597 | 98,824 | 3,347 | 95,477 | 6,137 | 5.8 | 59,900 |
| 1980 ........................... | 169,349 | 108,544 | 64.1 | 100,907 | 1,604 | 99,303 | 3,364 | 95,938 | 7,637 | 7.0 | 60,806 |
| 1981 ........................... | 171,775 | 110,315 | 64.2 | 102,042 | 1,645 | 100,397 | 3,368 | 97,030 | 8,273 | 7.5 | 61,460 |
| 1982 ........................... | 173,939 | 111,872 | 64.3 | 101,194 | 1,668 | 99,526 | 3,401 | 96,125 | 10,678 | 9.5 | 62,067 |
| 1983. | 175,891 | 113,226 | 64.4 | 102,510 | 1,676 | 100,834 | 3,383 | 97,450 | 10,717 | 9.5 | 62,665 |
| 1984. | 178,080 | 115,241 | 64.7 | 106,702 | 1,697 | 105,005 | 3,321 | 101,685 | 8,539 | 7.4 | 62,839 |
| 1985 ...................... | 179,912 | 117,167 | 65.1 | 108,856 | 1,706 | 107,150 | 3,179 | 103,971 | 8,312 | 7.1 | 62,744 |
| 1986' .......................... | 182,293 | 119,540 | 65.6 | 111,303 | 1,706 | 109,597 | 3,163 | 106,434 | 8,237 | 6.9 | 62,752 |
| 1987. | 184,490 | 121,602 | 65.9 | 114,177 | 1,737 | 112,440 | 3,208 | 109,232 | 7,425 | 6.1 | 62,888 |
| 1988 ........................... | 186,322 | 123,378 | 66.2 | 116,677 | 1,709 | 114,968 | 3,169 | 111,800 | 6,701 | 5.4 | 62,944 |
| 1989 ........................... | 188,081 | 125,557 | 66.8 | 119,030 | 1,688 | 117,342 | 3,199 | 114,142 | 6,528 | 5.2 | 62,523 |
|  | Monthly data, seasonally adjusted ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| 1989: |  |  |  |  |  |  |  |  |  |  |  |
| August ...................... | 188,286 | 125,758 | 66.8 | 119,238 | 1,688 | 117,550 | 3,275 | 114,275 | 6,520 | 5.2 | 62,528 |
| September ................ | 188,428 | 125,725 | 66.7 | 119,121 | 1,702 | 117,419 | 3,219 | 114,200 | 6,604 | 5.3 | 62,703 |
| October ..................... | 188,580 | 125,857 | 66.7 | 119,294 | 1,709 | 117,585 | 3,197 | 114,388 | 6,563 | 5.2 | 62,723 |
| November ................. | 188,721 | 126,192 | 66.9 | 119,540 | 1,704 | 117,836 | 3,160 | 114,676 | 6,652 | 5.3 | 62,529 |
| December ................. | 188,865 | 126,246 | 66.8 | 119,588 | 1,700 | 117,888 | 3,197 | 114,691 | 6,658 | 5.3 | 62,619 |
| 1990: |  |  |  |  |  |  |  |  |  |  |  |
| January .................... | 188,990 | 126,094 | 66.7 | 119,560 | 1,697 | 117,863 | 3,134 | 114,728 | 6,535 | 5.2 | 62,896 |
| February .................... | 189,090 | 126,308 | 66.8 | 119,713 | 1,678 | 118,035 | 3,079 | 114,957 | 6,594 | 5.2 | 62,782 |
| March ....................... | 189,198 | 126,498 | 66.9 | 120,003 | 1,669 | 118,334 | 3,200 | 115,133 | 6,495 | 5.1 | 62,700 |
| April ......................... | 189,326 | 126,543 | 66.8 | 119,773 | 1,657 | 118,116 | 3,133 | 114,983 | 6,770 | 5.3 | 62,783 |
| May .......................... | 189,467 | 126,643 | 66.8 | 119,989 | 1,639 | 118,350 | 3,305 | 115,045 | 6,653 | 5.3 | 62,824 |
| June .......................... | 189,607 | 126,466 | 66.7 | 120,019 | 1,630 | 118,389 | 3,348 | 115,041 | 6,447 | 5.1 | 63,141 |
| July .......................... | 189,763 | 126,394 | 66.6 | 119,580 | 1,627 | 117,953 | 3,085 | 114,867 | 6,814 | 5.4 | 63,369 |
| August ...................... | 189,901 | 126,300 | 66.5 | 119,298 | 1,640 | 117,658 | 3,137 | 114,521 | 7,003 | 5.5 | 63,601 |

${ }^{1}$ Not strictly comparable with prior years. For an explanation, see "Historical Comparability" under the Household Data section of the Explanatory Notes.
${ }^{2}$ The population and Armed Forces figures are not adjusted for
seasonal variation.
NOTE: Revisions of seasonally adjusted monthly and quarterly data (shown in tables A-1 through A-3 and A-32 through A-53) for the most recent 5 -year period are made at the end of each calendar year.

A-2. Employment status of the noninstitutional population 16 years and over by sex, 1979 to date
 Comparability" under the Household Data section of the Explanatory Notes.

A-3. Employment status of the civilian noninstitutional population 16 years and over, 1956 to date
(Numbers in thousands)

| Year and month | Civilian noninstitutional population | Civilian labor force |  |  |  | Unemployment rates |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Percent of population | Employed | Unemployed | Total | Men | Women |
|  | Annual averages |  |  |  |  |  |  |  |
| 1956 | 110,954 | 66,552 | 60.0 | 63,799 | 2,750 | 4.1 | 3.8 | 4.8 |
| 1957 .................................... | 112,265 | 66,929 | 59.6 | 64,071 | 2,859 | 4.3 | 4.1 | 4.7 |
| 1958 .................................... | 113,727 | 67,639 | 59.5 | 63,036 | 4,602 | 6.8 | 6.8 | 6.8 |
| 1959 .................................... | 115,329 | 68,369 | 59.3 | 64,630 | 3,740 | 5.5 | 5.2 | 5.9 |
| 1960¹ .................................. | 117,245 | 69,628 | 59.4 | 65,778 | 3,852 | 5.5 | 5.4 | 5.9 |
| 1961 .................................... | 118,771 | 70,459 | 59.3 | 65,746 | 4,714 | 6.7 | 6.4 | 7.2 |
| 1962¹ .................................. | 120,153 | 70,614 | 58.8 | 66,702 | 3,911 | 5.5 | 5.2 | 6.2 |
| 1963 .................................... | 122,416 | 71,833 | 58.7 | 67,762 | 4,070 | 5.7 | 5.2 | 6.5 |
| 1964 .................................... | 124,485 | 73,091 | 58.7 | 69,305 | 3,786 | 5.2 | 4.6 | 6.2 |
| 1965 ................................ | 126,513 | 74,455 | 58.9 | 71,088 | 3,366 | 4.5 | 4.0 | 5.5 |
| 1966 .................................... | 128,058 | 75,770 | 59.2 | 72,895 | 2,875 | 3.8 | 3.2 | 4.8 |
| 1967 .................................... | 129,874 | 77,347 | 59.6 | 74,372 | 2,975 | 3.8 | 3.1 | 5.2 |
| 1968 .................................. | 132,028 | 78,737 | 59.6 | 75,920 | 2,817 | 3.6 | 2.9 | 4.8 |
| 1969 .................................... | 134,335 | 80,734 | 60.1 | 77,902 | 2,832 | 3.5 | 2.8 | 4.7 |
| 1970 .................................... | 137,085 | 82,771 | 60.4 | 78,678 | 4,093 | 4.9 | 4.4 | 5.9 |
| 1971. | 140,216 | 84,382 | 60.2 | 79,367 | 5,016 | 5.9 | 5.3 | 6.9 |
| 1972 ${ }^{1}$................................... | 144,126 | 87,034 | 60.4 | 82,153 | 4,882 | 5.6 | 5.0 | 6.6 |
| $1973^{\prime}$.................................... | 147,096 | 89,429 | 60.8 | 85,064 | 4,365 | 4.9 | 4.2 | 6.0 |
| 1974 .................................... | 150,120 | 91,949 | 61.3 | 86,794 | 5,156 | 5.6 | 4.9 | 6.7 |
| 1975 ................................ | 153,153 | 93,775 | 61.2 | 85,846 | 7,929 | 8.5 | 7.9 | 9.3 |
| 1976 .................................... | 156,150 | 96,158 | 61.6 | 88,752 | 7,406 | 7.7 | 7.1 | 8.6 |
| 1977 ................................... | 159,033 | 99,009 | 62.3 | 92,017 | 6,991 | 7.1 | 6.3 | 8.2 |
| 1978' .................................. | 161,910 | 102,251 | 63.2 | 96,048 | 6,202 | 6.1 | 5.3 | 7.2 |
| 1979 .................................... | 164,863 | 104,962 | 63.7 | 98,824 | 6,137 | 5.8 | 5.1 | 6.8 |
| 1980 .................................... | 167,745 | 106,940 | 63.8 | 99,303 | 7,637 | 7.1 | 6.9 | 7.4 |
| 1981 ..................................... | 170,130 | 108,670 | 63.9 | 100,397 | 8,273 | 7.6 | 7.4 | 7.9 |
| 1982 .................................... | 172,271 | 110,204 | 64.0 | 99,526 | 10,678 | 9.7 | 9.9 | 9.4 |
| 1983 ................................... | 174,215 | 111,550 | 64.0 | 100,834 | 10,717 | 9.6 | 9.9 | 9.2 |
| 1984 .................................... | 176,383 | 113,544 | 64.4 | 105,005 | 8,539 | 7.5 | 7.4 | 7.6 |
| 1985 .................................... | 178,206 | 115,461 | 64.8 | 107,150 | 8,312 | 7.2 | 7.0 | 7.4 |
| $1986{ }^{\text { }}$ | 180,587 | 117,834 | 65.3 | 109,597 | 8,237 | 7.0 | 6.9 | 7.1 |
| 1987 ................................... | 182,753 | 119,865 | 65.6 | 112,440 | 7.425 | 6.2 | 6.2 | 6.2 |
| 1988 .................................... | 184,613 | 121,669 | 65.9 | 114,968 | 6,701 | 5.5 | 5.5 | 5.6 |
| 1989 ..................................... | 186,393 | 123,869 | 66.5 | 117,342 | 6,528 | 5.3 | 5.2 | 5.4 |
|  | Monthly data, seasonally adjusted ${ }^{2}$ |  |  |  |  |  |  |  |
| 1989: |  |  |  |  |  |  |  |  |
| August ............................... | 186,598 | 124,070 | 66.5 | 117,550 | 6,520 | 5.3 | 5.1 | 5.4 |
| September .......................... | 186,726 | 124,023 | 66.4 | 117,419 | 6,604 | 5.3 | 5.4 | 5.2 |
| October ............................ | 186,871 | 124,148 | 66.4 | 117,585 | 6,563 | 5.3 | 5.2 | 5.4 |
| November ......................... | 187,017 | 124,488 | 66.6 | 117,836 | 6,652 | 5.3 | 5.3 | 5.4 |
| December .......................... | 187,165 | 124,546 | 66.5 | 117,888 | 6,658 | 5.3 | 5.3 | 5.5 |
| 1990: |  |  |  |  |  |  |  |  |
| January .............................. | 187,293 | 124,397 | 66.4 | 117,863 | 6,535 | 5.3 | 5.3 | 5.2 |
| February ............................ | 187,412 | 124,630 | 66.5 | 118,035 | 6,594 | 5.3 | 5.2 | 5.4 |
| March ................................ | 187,529 | 124,829 | 66.6 | 118,334 | 6,495 | 5.2 | 5.1 | 5.3 |
| April ................................... | 187,669 | 124,886 | 66.5 | 118,116 | 6,770 | 5.4 | 5.5 | 5.4 |
| May .................................. | 187,828 | 125,004 | 66.6 | 118,350 | 6,653 | 5.3 | 5.4 | 5.2 |
| June .................................. | 187,977 | 124,836 | 66.4 | 118,389 | 6,447 | 5.2 | 5.3 | 5.0 |
| July ................................... | 188,136 | 124,767 | 66.3 | 117,953 | 6,814 | 5.5 | 5.6 | 5.3 |
| August ............................... | 188,261 | 124,660 | 66.2 | 117,658 | 7,003 | 5.6 | 5.7 | 5.5 |

${ }^{1}$ Not strictly comparable with prior years. For an explanation, see Explanatory Notes.
"Historical Comparability" under the Household Data section of the

A-4. Employment status of the civilian noninstitutional population by age, sex, and race

| Age, sex, and race | August 1990 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Civilian noninstitutional population | Civilian labor force |  |  |  |  | Not in labor force |  |  |  |  |
|  |  | Total | $\begin{aligned} & \text { Percent } \\ & \text { of } \\ & \text { population } \end{aligned}$ | Employed | Unemployed |  | Total | Keeping house |  | Unable to work | Otherreasons |
|  |  |  |  |  | Number | Percent of labor force |  |  |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |
| 16 years and over. | 188,261 | 126,012 | 66.9 | 119,174 | 6,837 | 5.4 | 62,250 | 27,148 | 2,258 | 3,894 | 28,949 |
| 16 to 19 years .................................. | 13,711 | 8,265 | 60.3 | 7.129 | 1,136 | 13.7 | 5,446 | 816 | 933 | 51 | 3,645 |
| 16 to 17 years ................................. | 6,578 | 3,297 | 50.1 | 2,787 | $\begin{aligned} & 510 \\ & 626 \end{aligned}$ | 15.5 | 3,281 | 377 | 488445 | 24 | 2,3921,253 |
| 18 to 19 years ................................. | 7,133 | 4,968 | 69.6 | 4,342 |  | 12.6 | 2,165 | 439 |  | 2898 |  |
| 20 to 24 years ................................... | 17,808 | 14,359 | 80.6 | 13,167 | 1,193 | 8.3 | 3,449 | 1,521 | 445 710 |  | 1,253 1,119 |
| 25 to 54 years .............................. | 105,749 | 88,035 | 83.2 | 84,023 | 4,012 | 4.6 | 17,714 | 11,832 | $605$ | 98 1,617 | 3,660 |
| 25 to 34 years ................................. | 42,794 | 35,759 | 83.6 | 33,788 | 1,991 | 5.6 | 7,035 | 4,964 | 429 | 392 | 1,250631 |
| 25 to 29 years .............................. | 20,835 | 17,408 | 83.6 | 16,352 | 1,056 | 6.1 | 3,427 | 2,336 | 291 | 169 |  |
| 30 to 34 years ............................... | 21,959 | 18,351 | 83.6 | 17,416 | 935 | 5.1 | 3,608 | 2,627 | 138 | 223 | 631 619 |
| 35 to 44 years ............................. | 37,469 | 31,789 | 84.8 | 30,460 | 1,329 | 4.2 | 5,680 | 3,791 | 124 | 567 | 1,198 |
| 35 to 39 years ............................... | 19,950 | 18,897 | 84.7 | 18,117 | 1,780 | 4.6 | 3,053 | 2,107 | 8836 | 246 | 611586 |
| 40 to 44 years ................................ | 17,519 | 14,892 | 85.0 | 14,343 | 549 | 3.7 | 2,627 | 1,684 |  | 321 |  |
| 45 to 54 years ............................... | 25,487 | 20,487 | 80.4 | 19,795 | 891 | 3.4 | 5,000 | 3,077 | 52 | 658 | 586 1,213 |
| 45 to 49 years ............................. | 13,958 | 11,568 | 82.9 | 11,140 | 428 | 3.7 | $\begin{aligned} & 2,390 \\ & 2,609 \end{aligned}$ | $\begin{aligned} & 1,501 \\ & 1,576 \end{aligned}$ |  | 311 | 541872 |
| 50 to 54 years ............................... | 11,528 | 8,919 | 77.4 | 8,655 | 263 | 3.0 |  |  | 37 15 | 347 |  |
| 55 to 64 years .................................. | 21,218 | 11,849 | 55.8 | 11,480 | 369 | 3.1 | $\begin{aligned} & 2,609 \\ & 9,369 \end{aligned}$ | $\begin{aligned} & 4,292 \\ & 1,836 \end{aligned}$ | 8 | 842 | 4,226 |
| 55 to 59 years .................................. | 10,537 | 7,082 | 67.2 | 8,858 | 224 | 3.2 |  |  | 8 | 403 | 1,209 |
| 60 to 64 years ........................... | 10,681 | 4,767 | 44.6 | 4,622 | 145 | 3.0 | 3,455 5,914 | $\begin{aligned} & 1,836 \\ & 2,457 \end{aligned}$ | 1 | 439 | 3,017 |
| 85 years and over .............................. | 29,774 | 3,502 | 11.8 | 3,375 | 127 | 3.6 | 26,272 | 8,688 | 2 | 1,285 | 16,298 <br> 4,986 <br> 4,448 |
| 65 to 69 years .................................. | 10,164 | 2,127 | 20.9 | 2,035 | 92 | 4.3 | 8,037 | 2,733 | - | 319 |  |
| 70 to 74 years ........................... | 7,950 | 880 | 11.1 | 855 | 25 | 2.8 | 7,070 | 2,369 | - | 254 |  |
| 75 years and over ........................... | 11,661 | 496 | 4.3 | 485 | 11 | 2.1 | 11,165 | 3,586 | 3 | 712 | 6,864 |
| Men |  |  |  |  |  |  |  |  |  |  |  |
| 16 years and over ................................ | 89,765 | 69,125 | 77.0 | 85,604 | 3,521 | 5.1 | 20,640 | 701 | 1,118 | 2,158 | 16,662 |
| 16 to 19 years | 6,902 | 4,352 | 63.1 | 3,742 | 611 | 14.0 | 2,550 | 109 | 453 | 35 | 1,953 |
| 16 to 17 years ................................. | 3,374 | 1,760 | 52.2 | 1,477 | 283 | 16.1 | 1,614 | 69 | 229 | 18 | 1,299 |
| 18 to 19 years ................................. | 3,528 | 2,592 | 73.5 | 2,264 | 327 | 12.6 | 936 | 40 | 225 | 17 | 654 |
| 20 to 24 years ................................... | 8,661 | 7,549 | 87.2 | 6,970 | 579 | 7.7 | 1,112 | 75 | 368 | 56 | 613 |
| 25 to 54 years | 51,760 | 48,377 | 93.5 | 46,337 | 2,039 | 4.2 | 3,383 | 282 | 293 | 1,053 | 1,776 |
| 25 to 34 years ................................. | 21,077 | 19,905 | 94.4 | 18,841 | 1,064 | 5.3 | 1,172 | 116 | 230 | 253 | 574 |
| 25 to 29 years .......................... | 10,231 | 9,627 | 94.1 | 9,054 | 572 | 5.9 | 604 | 45 | 159 | 104 | 296 |
| 30 to 34 years .............................. | 10,847 | 10,278 | 94.8 | 9,787 | 492 | 4.8 | 568 | 71 | 71 | 149 | 278 |
| 35 to 44 years ................................ | 18,331 | 17,258 | 94.1 | 16,629 | 630 | 3.6 | 1,073 | 98 | 49 | 373 | 553 |
| 35 to 39 years ............................... | 9,781 | 9,260 | 94.7 | 8,894 | 365 | 3.9 | 522 | 54 | 36 | 163 | 269 |
| 40 to 44 years ............................... | 8,550 | 7,999 | 93.6 | 7,734 | 264 | 3.3 | 551 | 44 | 13 | 209 | 284 |
| 45 to 54 years ................................. | 12,351 | 11,213 | 90.8 | 10,868 | 345 | 3.1 | 1,138 | 48 | 14 | 428 | 649 |
| 45 to 49 years | 6,778 | 6,275 | 92.6 | 6,052 | 223 | 3.6 | 503 | 25 | 12 | 203 | 262 |
| 50 to 54 years ............................... | 5,574 | 4,938 | 88.6 | 4,816 | 122 | 2.5 | 635 | 23 | 1 | 225 | 387 |
| 55 to 64 years ................................... | 10,031 | 6,801 | 67.8 | 6,589 | 212 | 3.1 | 3,230 | 69 | 3 | 482 | 2,677 |
| 55 to 59 years ................................. | 5,016 | 4,010 | 79.9 | 3,896 | 114 | 2.8 | 1,006 | 31 | 2 | 242 | 731 |
| 60 to 64 years | 5,015 | 2,791 | 55.7 | 2,693 | 98 | 3.5 | 2,224 | 38 | 1 | 240 | 1,946 |
| 65 years and over .............................. | 12,411 | 2,046 | 16.5 | 1,966 | 80 | 3.9 | 10,364 | 187 | 1 | 533 | 9,644 |
| 65 to 69 years .................................. | 4,604 | 1.196 | 26.0 | 1,135 | 62 | 5.2 | 3,406 | 69 | 1 | 168 | 3,171 |
| 70 to 74 years ................................. | 3.485 | 537 | 15.4 | 523 | 14 | 2.7 | 2,948 | 45 |  | 115 | 2,788 |
| 75 years and over ............................. | 4,321 | 313 | 7.2 | 308 | 4 | 1.3 | 4,009 | 73 | 1 | 250 | 3,685 |
| Women |  |  |  |  |  |  |  |  |  |  |  |
| 16 years and over ................................. | 98,496 | 56,887 | 57.8 | 53,570 | 3,316 | 5.8 | 41,610 | 26,447 | 1,140 | 1,736 | 12,286 |
| 16 to 19 years ................................... | 6,809 | 3,913 | 57.5 | 3,388 | 525 | 13.4 | 2,896 | 707 | 480 | 17 | 1,693 |
| 16 to 17 years | 3,204 | 1,537 | 48.0 | 1,310 | 227 | 14.7 | 1,667 | 308 | 259 | 6 | 1,093 |
| 18 to 19 years | 3,605 | 2,376 | 65.9 | 2,077 | 299 | 12.6 | 1,229 | 398 | 221 | 11 | 599 |
| 20 to 24 years ................................... | 9,148 | 6,811 | 74.5 | 6,197 | 614 | 9.0 | 2,337 | 1,446 | 342 | 42 | 506 |
| 25 to 54 years ................................... | 53,989 | 38,659 | 73.5 | 37,686 | 1.973 | 5.0 | 14,331 | 11,570 | 312 | 564 | 1,884 |
| 25 to 34 years ................................... | 21,717 | 15,854 | 73.0 | 14,927 | 927 | 5.6 | 5,862 | 4,848 | 199 | 140 | 675 |
| 25 to 29 years .............................. | 10,604 | 7,781 | 73.4 | 7,298 | 483 | 6.2 | 2,823 | 2,291 | 132 | 66 | 335 |
| 30 to 34 years ............................... | 11,112 | 8,073 | 72.6 | 7,629 | 444 | 5.5 | 3,040 | 2,557 | 68 | 74 | 341 |
| 35 to 44 years ................................. | 19,138 | 14,531 | 75.9 | 13.831 | 700 | 4.8 | 4,607 | 3,693 | 75 | 194 | 645 |
| 35 to 39 years .............................. | 10,168 | 7,637 | 75.1 | 7,222 | 415 | 5.4 | 2,531 | 2,053 | 52 | 83 | 343 |
| 40 to 44 years .............................. | 8,969 | 6,894 | 76.9 | 6,609 | 285 | 4.1 | 2,075 | 1,640 | 22 | 111 | 302 |
| 45 to 54 years ................................. | 13,135 | 9,273 | 70.6 | 8,927 | 346 | 3.7 | 3,862 | 3,029 | 38 | 230 | 564 |
| 45 to 49 years .............................. | 7.181 | 5,293 | 73.7 | 5,088 | 205 | 3.9 | 1,888 | 1,476 | 25 | 108 | 279 |
| 50 to 54 years .............................. | 5,955 | 3,980 | 66.8 | 3,639 | 141 | 3.5 | 1,974 | 1,553 | 14 | 122 | 285 |
| 55 to 64 years ................................... | 11,187 | 5,048 | 45.1 | 4,891 | 157 | 3.1 | 6,139 | 4,224 | 5 | 361 | 1,549 |
| 55 to 59 years | 5,521 | 3,072 | 55.6 | 2,962 | 110 | 3.6 | 2,449 | 1,805 | 5 | 161 | 478 |
| 60 to 64 years ................................. | 5,666 | 1,976 | 34.9 | 1,929 | 47 | 2.4 | 3,690 | 2,419 | - | 200 | 1,072 |
| 65 years and over ............................... | 17,364 | 1,456 | 8.4 | 1,409 | 47 | 3.2 | 15,908 | 8,501 | 1 | 752 | 6,654 |
| 65 to 69 years .................................. | 5,560 | 930 | 16.7 | 900 | 30 | 3.2 | 4,629 | 2,664 | - | 151 | 1,815 |
| 70 to 74 years ................................... | 4,465 | 342 | 7.7 | 332 | 11 | 3.1 | 4,123 | 2,324 | - | 140 | 1,660 |
| 75 years and over ............................ | 7,340 | 183 | 2.5 | 177 | 6 | 3.5 | 7,156 | 3,513 | 2 | 462 | 3,179 |

A-4. Employment status of the civilian noninstitutional population by age, sex, and race-Continued


A-4. Employment status of the civilian noninstitutional population by age, sex, and race-Continued

| (Numbers in thousands) |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age, sex, and race | August 1990 |  |  |  |  |  |  |  |  |  |  |
|  | Civilian noninstitutional population | Civilian labor force |  |  |  |  | Not in labor force |  |  |  |  |
|  |  | Total | $\begin{aligned} & \text { Percent } \\ & \text { of } \\ & \text { population } \end{aligned}$ | Employed | Unemployed |  | Total | Keeping house | Going to school | Unable to work | Other reasons |
|  |  |  |  |  | Number | $\begin{aligned} & \text { Percent } \\ & \text { of } \\ & \text { labor } \\ & \text { force } \end{aligned}$ |  |  |  |  |  |
| BLACK |  |  |  |  |  |  |  |  |  |  |  |
| 16 years and over ................................ | 21,337 | 13,584 | 63.7 | 12,027 | 1,557 | 11.5 | 7,753 | 3,125 | 490 | 906 | 3,232 |
| 16 to 19 years ................................... | 2,141 | 951 | 44.4 | 864 | 287 | 30.2 | 1,190 | 208 | 241 | 10 | 730 |
| 16 to 17 years ................................. | 1.066 | 370 | 34.8 | 246 | 124 | 33.5 | 895 | 83 | 135 | 5 | 472 |
| 18 to 19 years ............................... | 1,075 | 581 | 54.0 | 418 | 163 | 28.1 | 495 | 125 | 106 | 6 | 258 |
| 20 to 24 years ................................. | 2,439 | 1,725 | 70.7 | 1,374 | 351 | 20.4 | 714 | 337 | 151 | 26 | 201 |
| 25 to 54 years .................................... | 12,111 | 9,573 | 79.0 | 8,718 | 856 | 8.9 | 2,537 | 1,500 | 96 | 361 | 580 |
| 25 to 34 years .................................. | 5,351 | 4,208 | 78.6 | 3,707 | 501 | 11.9 | 1,143 | 745 | 70 | 88 | 238 |
| 25 to 29 years .............................. | 2,873 | 2,081 | 77.8 | 1,799 | 281 | 13.5 | 593 | 369 | 55 | 40 | 129 |
| 30 to 34 years ............................... | 2,677 | 2,128 | 79.5 | 1,908 | 220 | 10.3 | 550 | 376 | 15 | 49 | 110 |
| 35 to 44 years .................................. | 4,101 | 3,362 | 82.0 | 3,102 | 261 | 7.7 | 738 | 414 | 20 | 131 | 174 |
| 35 to 39 years ............................... | 2,285 | 1,855 | 81.2 | 1,697 | 158 | 8.5 | 430 | 253 | 14 | 59 | 104 |
| 40 to 44 years ............................... | 1,815 | 1,507 | 83.0 | 1,405 | 102 | 6.8 | 308 | 180 | 6 | 72 | 70 |
| 45 to 54 years ................................. | 2,659 | 2,003 | 75.3 | 1.909 | 94 | 4.7 | 657 | 341 | 6 | 142 | 168 |
| 45 to 49 years .............................. | 1.413 | 1,104 | 78.2 | 1.033 | 72 | 6.5 | 308 | 169 | 5 | 61 | 74 |
| 50 to 54 years ................................ | 1,248 | 898 | 72.1 | 876 | 22 | 2.5 | 348 | 172 | 1 | 81 | 94 |
| 55 to 64 years ................................... | 2,136 | 1,049 | 49.1 | 1,014 | 35 | 3.4 | 1,086 | 446 | 1 | 212 | 428 |
| 55 to 59 years .................................. | 1,104 | 645 | 58.4 | 617 | 28 | 4.3 | 460 | 210 | 1 | 103 | 146 |
| 60 to 64 years ................................. | 1,031 | 405 | 39.3 | 397 | 8 | 1.9 | 627 | 236 |  | 109 | 281 |
| 65 years and over .............................. | 2,511 | 286 | 11.4 | 257 | 28 | 9.9 | 2,225 | 634 | 1 | 297 | 1,293 |
| 65 to 69 years ................................. | 926 | 170 | 18.4 | 147 | 23 | 13.7 | 756 | 232 | - | 86 | 438 |
| 70 to 74 years .................................. | 645 | 74 | 11.5 | 69 | 5 | ${ }^{(1)}$ | 571 | 159 |  | 67 | 344 |
| 75 years and over ............................ | 940 | 41 | 4.4 | 41 | - | (') | 899 | 243 | 1 | 144 | 511 |
| Men |  |  |  |  |  |  |  |  |  |  |  |
| 16 years and over ................................. | 9,584 | 6,793 | 70.9 | 6.022 | 771 | 11.4 | 2.791 | 198 | 241 | 463 | 1,889 |
| 16 to 19 years .................................... | 1,058 | 491 | 46.4 | 344 | 148 | 30.0 | 567 | 38 | 113 | 7 | 409 |
| 16 to 17 years ................................. | 546 | 198 | 36.2 | 124 | 74 | 37.6 | 348 | 12 | 64 | 3 | 270 |
| 18 to 19 years ................................. | 512 | 293 | 57.3 | 220 | 73 | 25.0 | 218 | 26 | 49 | 4 | 139 |
| 20 to 24 years ................................... | 1,114 | 871 | 78.3 | 712 | 160 | 18.3 | 242 | 25 | 81 | 12 | 125 |
| 25 to 54 years .................................. | 5,436 | 4,741 | 87.2 | 4,310 | 431 | 9.1 | 694 | 100 | 47 | 216 | 332 |
| 25 to 34 years ................................. | 2,425 | 2,147 | 88.5 | 1,900 | 247 | 11.5 | 278 | 45 | 37 | 55 | 141 |
| 25 to 29 years ............................... | 1,214 | 1,068 | 88.0 | 926 | 142 | 13.3 | 145 | 17 | 32 | 27 | 69 |
| 30 to 34 years ................................ | 1,212 | 1,079 | 89.0 | 974 | 105 | 9.7 | 133 | 28 | 5 | 28 | 72 |
| 35 to 44 years .................................. | 1,831 | 1,816 | 88.3 | 1,474 | 142 | 8.8 | 215 | 31 | 10 | 77 | 97 |
| 35 to 39 years .............................. | 1,021 | 892 | 87.3 | 802 | 90 | 10.1 | 129 | 15 | 8 | 44 | 62 |
| 40 to 44 years ............................... | 810 | 724 | 89.4 | 672 | 52 | 7.1 | 86 | 16 | 3 | 33 | 34 |
| 45 to 54 years ................................. | 1,179 | 978 | 83.0 | 936 | 43 | 4.4 | 201 | 23 | - | 84 | 94 |
| 45 to 49 years ................................ | 626 | 546 | 87.2 | 510 | 36 | 6.6 | 80 | 15 | - | 39 | 26 |
| 50 to 54 years ................................ | 553 | 432 | 78.2 | 426 | 7 | 1.5 | 121 | 8 | - | 45 | 68 |
| 55 to 64 years ................................... | 963 | 548 | 56.9 | 531 | 18 | 3.2 | 415 | 17 | - | 124 | 273 |
| 55 to 59 years | 498 | 333 | 66.8 | 321 | 12 | 3.6 | 165 | 12 | - | 64 | 89 |
| 60 to 64 years ................................. | 465 | 216 | 46.3 | 210 | 6 | 2.7 | 250 | 5 | - | 60 | 185 |
| 85 years and over .............................. | 1,014 | 141 | 13.9 | 126 | 15 | 10.6 | 873 | 19 | - | 103 | 751 |
| 65 to 69 years ................................. | 399 | 78 | 19.6 | 65 | 13 | 17.0 | 320 | 10 | - | 27 | 283 |
| 70 to 74 years ................................. | 284 | 42 | 14.7 | 40 | 2 | (') | 242 | 2 | - | 22 | 218 |
| 75 years and over ............................. | 332 | 21 | 6.4 | 21 | - | (1) | 310 | 6 | - | 55 | 249 |
| Women |  |  |  |  |  |  |  |  |  |  |  |
| 16 years and over ................................ | 11,753 | 6,791 | 57.8 | 6,005 | 786 | 11.6 | 4,962 | 2,927 | 249 | 443 | 1,342 |
| 16 to 19 years ................................... | 1,083 | 460 | 42.5 | 321 | 139 | 30.3 | 623 | 170 | 128 | 3 | 321 |
| 18 to 17 years ................................. | 519 | 173 | 33.2 | 123 | 50 | 28.8 | 347 | 71 | 71 | 2 | 203 |
| 18 to 19 years ................................. | 564 | 287 | 51.0 | 198 | 90 | 31.2 | 276 | 99 | 57 | 1 | 118 |
| 20 to 24 years ................................... | 1,326 | 854 | 64.4 | 662 | 191 | 22.4 | 472 | 312 | 70 | 13 | 77 |
| 25 to 54 years ................................... | 6,675 | 4,832 | 72.4 | 4,407 | 424 | 8.8 | 1,843 | 1,400 | 49 | 145 | 248 |
| 25 to 34 years ................................. | 2,926 | 2,062 | 70.5 | 1,807 | 255 | 12.3 | 864 | 700 | 34 | 33 | 97 |
| 25 to 29 years ............................... | 1,460 | 1,012 | 69.4 | 873 | 139 | 13.8 | 447 | 352 | 23 | 13 | 59 |
| 30 to 34 years ............................... | 1,466 | 1,049 | 71.6 | 934 | 115 | 11.0 | 417 | 348 | 11 | 20 | 38 |
| 35 to 44 years ................................. | 2,269 | 1,746 | 78.9 | 1,628 | 118 | 6.8 | 523 | 383 | 10 | 53 | 77 |
| 35 to 39 years .............................. | 1,264 | 963 | 76.2 | 895 | 68 | 7.0 | 301 | 238 | 7 | 15 | 42 |
| 40 to 44 years ............................... | 1,005 | 783 | 77.9 | 733 | 51 | 6.5 | 222 | 145 | 3 | 38 | 36 |
| 45 to 54 years ................................. | 1,480 | 1,024 | 69.2 | 973 | 51 | 5.0 | 456 | 318 | 6 | 59 | 73 |
| 45 to 49 years .............................. | 786 | 558 | 71.0 | 522 | 36 | 6.4 | 228 | 153 | 5 | 22 | 48 |
| 50 to 54 years ............................... | 694 | 466 | 67.2 | 451 | 15 | 3.3 | 228 | 164 | 1 | 36 | 26 |
| 55 to 64 years ................................... | 1,173 | 501 | 42.7 | 484 | 17 | 3.5 | 672 | 428 | 1 | 88 | 155 |
| 55 to 59 years ................................. | 607 | 312 | 51.4 | 296 | 16 | 5.0 | 295 | 198 | 1 | 38 | 58 |
| 60 to 64 years ................................. | 566 | 189 | 33.4 | 188 | 2 | . 9 | 377 | 230 | - | 50 | 97 |
| 65 years and over .............................. | 1,496 | 144 | 9.6 | 131 | 13 | 9.3 | 1,352 | 616 | 1 | 194 | 542 |
| 65 to 69 years .................................. | 527 | 92 | 17.5 | 82 | 10 | 10.9 | 435 | 222 | - | 59 | 155 |
| 70 to 74 years ................................. | 361 | 32 | 8.9 | 29 | 3 | (') | 328 | 157 | - | 46 | 126 |
| 75 years and over .............................. | 608 | 20 | 3.3 | 20 | - | ( ${ }^{\text {( }}$ | 588 | 237 | 1 | 89 | 261 |

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

A-5. Employment status of the black-and-other civilian noninstitutional population by age and sex

| (Numbers in thousands) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Age and sex | August 1990 |  |  |  |  |  |  |  |  |
|  | Civilian noninstitutional population | TotalPercent <br> of <br> population |  | Civilian labor force |  |  |  |  | Not in labor force |
|  |  |  |  | Employed |  |  | Unemptoyed |  |  |
|  |  |  |  | Total | Agriculture | Nonagricultural industries | Number | Percent of labor force |  |
| TOTAL |  |  |  |  |  |  |  |  |  |
| 16 years and over $\qquad$ 16 to 19 years $\qquad$ | 27,711 | 17,773 | 64.1 | 15,958 | 251 | 15,707 | 1,815 | 10.2 | 9,938$\mathbf{1 , 5 0 5}$ |
|  | 2,671 | 1,166 | 43.7 | 856 | 23 | 833 | 310 | 28.6 |  |
| 16 to 17 years ..................................................................... | 1,336 | 455 | 34.1 | 323 | 17 | 306 | 132 | 29.1 | 881 |
| 18 to 19 years .................................... | 1,335 | 711 | 53.3 | 533 | 6 | 527 | 177 | 25.0 | 624 |
| 20 to 24 years .................................................. | 3,141 | 2,224 | 70.8 | 1,833 | 32 | 1,801 | 391 | 17.6 | 917 |
| 25 to 54 years ....................................... | 16,109 | 12,666 | 78.6 | 11.624 | 146 | 11,478 | 1,042 | 8.2 | 3,443 |
| 25 to 34 years ..................................................................... | 7,009 | 5,452 | 77.8 | 4,872 | 56 | 4,816 | 580 | 10.6 | 1,557 |
| 25 to 29 years $\qquad$ | 3,497 | 2,699 | 77.2 | 2,376 | 26 | 2,351 | 323 | 12.0 | 798 |
|  | 3,512 | 2,753 | 78.4 | 2,496 | 30 | 2,466 | 257 | 9.3 | 759 |
|  | 5,480 | 4,449 | 81.2 | 4,118 | 58 | 4,060 | 331 | 7.4 | 1,031 |
|  | 3,065 | 2,475 | 80.7 | 2,274 | 29 | 2,244 | 201 | 8.1 | 590 |
|  | 2,415 | 1,974 | 81.7 | 1,844 | 29 | 1,815 | 130 | 6.6 | 441 |
| 45 to 54 years ................................... | 3,620 | 2,765 | 76.4 | 2,634 | 32 | 2,602 | 131 | 4.7 | 855 |
| 45 to 49 years $\qquad$ <br> 50 to 54 years $\qquad$ | 1,969 | 1,550 | 78.7 | 1.458 | 24 | 1.434 | 91 | 5.9 | 420 |
|  | 1,651 | 1,216 | 73.6 | 1.176 | 8 | 1,168 | 40 | 3.3 | 435 |
| 55 to 64 years ....................................... | 2,705 | 1,367 | 50.6 | 1,323 | 27 | 1,296 | 44 | 3.2 | 1,338 |
| 55 to 59 years ............................................... | 1,392 | 833 | 59.8 | 797 | 11 | 766 | 36 | 4.3 | 560 |
| 60 to 64 years ................................... | 1,313 | 535 | 40.7 | 527 | 17 | 510 | 8 | 1.5 | 778 |
| 65 years and over $\qquad$ 65 to 69 years $\qquad$ | 3,085 | 349 | 11.3 | 321 | 22 | 299 | 29 | 8.2 | 2,736 |
|  | 1,167 | 215 | 18.4 | 191 | 16 | 175 | 24 | 11.1 | 952 |
| 70 to 74 years ........................................ | ${ }^{805}$ | 90 | 11.1 | 85 | 3 | 83 | 4 | 5.0 | 715 |
| 75 years and over | 1,113 | 45 | 4.0 | 44 | 3 | 41 | - | (') | 1,069 |
| Men |  |  |  |  |  |  |  |  |  |
| 16 years and over $\qquad$ 16 to 19 years | 12,604 | 9,054 | 71.8 | 8,158 | 220 | 7,939 | 896 | 9.9 | 3,550 |
|  | 1,329 | 603 | 45.4 | 445 | 19 | 426 | 158 | 28.2 | 725 |
| 16 to 19 years $\qquad$ <br> 16 to 17 years $\qquad$ | 691 | 240 | 34.7 | 162 | 14 | 147 | 78 | 32.6 | 451 |
| 18 to 19 years ..................................... | 638 | 364 | 57.0 | 284 | 5 | 279 | 60 | 22.0 | 274 |
| 20 to 24 years ....................................... | 1,461 | 1,134 | 77.6 | 955 | 27 | 928 | 179 | 15.8 | 328 |
| 251054 years ....................................... | 7,338 | 6,411 | 87.4 | 5,891 | 128 | 5,763 | 520 | 6.1 | 927 |
| 25 to 34 years ...................................... | 3,245 | 2,845 | 87.7 | 2,552 | 48 | 2,503 | 293 | 10.3 | 400 |
| 25 to 29 years .................................. | 1,822 | 1,418 | 87.4 | 1,251 | 21 | 1.229 | 167 | 11.8 | 205 |
| 30 to 34 years ................................. | 1,622 | 1,427 | 88.0 | 1,301 | 27 | 1,274 | 126 | 8.8 | 195 |
|  | 2,463 | 2,191 | 89.0 | 2,020 | 51 | 1,969 | 171 | 7.8 | 271 |
|  | 1,375 | 1,217 | 88.6 | 1,115 | 25 | 1,091 | 102 | 8.4 | 157 |
| 40 to 44 years .................................... | 1,068 | 974 | 89.5 | 905 | 26 | 879 | 69 | 7.1 | 114 |
|  | 1,630 | 1,375 | 84.3 | 1,319 | 29 | 1,290 | 56 | 4.1 | 255 |
|  | 883 | 773 | 87.6 | 730 | 22 | 708 | 43 | 5.6 | 109 |
| 50 to 54 years .................................. | 748 | 602 | 80.5 | 589 | 7 | 581 | 13 | 2.2 | 146 |
| 55 to 64 years ....................................... | 1,216 | 735 | 60.5 | 712 | 23 | 689 | 24 | 3.2 | 481 |
| 55 to 59 years ................................................................ | 620 | 430 | 69.4 | 413 | 8 | 405 | 18 | 4.1 | 190 |
| 60 to 64 years ...................................... | 596 | 305 | 51.2 | 299 | 15 | 284 | 6 | 1.9 | 291 |
|  | 1,261 | 171 | 13.5 | 156 | 22 | 133 | 15 | 8.8 | 1,090 |
|  | 492 | 95 | 19.4 | 81 | 17 | 65 | 14 | 14.6 | 396 |
| 70 to 74 years ......................................................................... | $\begin{aligned} & 361 \\ & 408 \end{aligned}$ | 51 | 14.1 | 50 | 3 | 47 | 1 | (') | 310 |
|  |  | 24 | 6.0 | 24 | 3 | 21 | - | (1) | 383 |
| Women |  |  |  |  |  |  |  |  |  |
| 16 years and over .................................... | 15,107 | 8,719 | 57.7 | 7,799 | 31 | 7,768 | 920 | 10.5 | 6,388 |
| 16 to 19 years ....................................... | 1,342 | 563 | 41.9 | 411 | 4 | 407 | 152 | 27.0 | 780 |
| 16 to 17 years $\qquad$ <br> 18 to 19 years | 645 | 215 | 33.4 | 161 | 2 | 159 | 54 | 25.2 | 430 |
|  | 697 | 347 | 49.8 | 250 | 1 | 248 | 98 | 28.1 | 350 |
| 20 to 24 years ...................................... | 1,680 | 1,090 | 64.9 | 879 | 6 | 873 | 212 | 19.4 | 589 |
| 25 to 54 years .......................................... | 8,771 | 6,255 | 71.3 | 5,733 | 17 | 5,716 | 522 | 8.3 | 2,516 |
| 25 to 34 years ............................................. | 3,764 | 2,607 | 69.3 | 2,320 | 7 | 2,313 | 287 | 11.0 | 1,157 |
| 25 to 29 years .................................... | 1,875 | 1,282 | 68.3 | 1,126 | 4 | 1,121 | 156 | 12.2 | 593 |
| 30 to 34 years ................................... | 1,889 | 1,326 | 70.2 | 1,195 | 3 | 1,192 | 131 | 9.9 | 564 |
| 35 to 44 years ................................... | 3,017 | 2,258 | 74.8 | 2,097 | 7 | 2,090 | 160 | 7.1 | 759 |
| 35 to 39 years ................................. | 1,690 | 1,257 | 74.4 | 1,158 | 5 | 1,154 | 99 | 7.9 | 433 |
| 40 to 44 years ......................................................... | 1,327 | 1,000 | 75.4 | 939 | 3 | 937 | 61 | 6.1 | 327 |
|  | 1,990 | 1,390 | 69.9 | 1,315 | 3 | 1,313 | 75 | 5.4 | 600 |
|  | 1,087 | 776 | 71.4 | 728 | 2 | 726 | 48 | 6.2 | 311 |
|  | 903 | 614 | 68.0 | 587 | 1 | 587 | 27 | 4.3 | 289 |
| 55 to 64 years ................................................ | 1,489 | 632 | 42.4 | 611 | 4 | 607 | 21 | 3.3 | 857 |
| 55 to 59 years 60 to 64 years | 772 | 402 | 52.1 | 384 | 3 | 381 | 18 | 4.6 | 370 |
|  | 717 | 230 | 32.1 | 228 | 1 | 226 | 2 | 1.0 | 487 |
| 65 years and over ................................. | 1,825 | 179 | 9.8 | 165 | - | 165 | 13 | 7.5 | 1,646 |
| 65 to 69 years ..................................... | 675 | 120 | 17.8 | 110 | - | 110 | 10 | 8.4 | 555 |
| 70 to 74 years $\qquad$ | 444 | 39 20 | 8.7 2.8 | 35 | - | 35 | 3 | ${ }^{(1)}$ | 405 |
| 75 years and over | 705 | 20 | 2.8 | 20 | - | 20 | - | (') | 685 |

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

## HOUSEHOLD DATA

NOT SEASONALLY ADJUSTED
A-6. Employment status of the civillan noninstitutional population by race, sex, and age
(Numbers in thousands)

| Employment status and race | Total |  | Men, 20 years and over |  | Women, 20 years and over |  | Both sexes, 16 to 19 years |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | $\begin{aligned} & \text { Aug. } \\ & 1990 \end{aligned}$ | Aug. 1989 | $\begin{aligned} & \text { Aug. } \\ & 1990 \end{aligned}$ | Aug. 1989 | $\begin{aligned} & \text { Aug. } \\ & 1990 \end{aligned}$ |
| TOTAL |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population | 186,598 | 188,261 | 81,754 | 82,862 | 90,684 | 91,688 | 14,160 | 13,711 |
| Civilian labor force | 125,444 | 126,012 | 64,167 | 64,773 | 52,000 | 52,974 | 9,276 | 8,265 |
| Percent of population. | 67.2 | 66.9 | 78.5 | 78.2 | 57.3 | 57.8 | 65.5 | 60.3 |
| Employed .... | 119,092 | 119,174 | 61,603 | 61,862 | 49,352 | 50,183 | 8,137 | 7,129 |
| Agriculture | 3,633 | 3,473 | 2,529 | 2,435 | 682 | 674 | 422 | 364 |
| Nonagricultural industries | 115,460 | 115,702 | 59,074 | 59,427 | 48,670 | 49,509 | 7,715 | 6,766 |
| Unemployed | 6,352 | 6,837 | 2,564 | 2,910 | 2,648 | 2,791 | 1,140 | 1,136 |
| Unemployment rate | 5.1 | 5.4 | 4.0 | 4.5 | 5.1 | 5.3 | 12.3 | 13.7 |
| Not in labor force | 61,155 | 62,250 | 17,587 | 18,090 | 38,683 | 38,714 | 4,884 | 5,446 |
| White |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ................................... | 159,470 | 160,550 | 70,734 | 71,587 | 77,235 | 77,923 | 11,501 | 11,040 |
| Civilian labor force ......... | 107,597 | 108,238 | 55,766 | 56,322 | 43,886 | 44,817 | 7,945 | 7,099 |
| Percent of population ............................................... | 67.5 | 67.4 | 78.8 | 78.7 | 56.8 | 57.5 | 69.1 | 64.3 |
| Employed .................................................................. | 102,938 | 103,217 | 53,868 | 54,149 | 41,948 | 42,795 | 7,122 | 6,273 |
| Agriculture | 3,407 | 3,222 | 2,370 | 2,235 | 650 | 647 | 388 | 340 |
| Nonagricultural industries ........................................ | 99,531 | 99,995 | 51,498 | 51,915 | 41,298 | 42,148 | 6,734 | 5,933 |
| Unemployed | 4,659 | 5,022 | 1,898 | 2,173 | 1,938 | 2,023 | 823 | 826 |
| Unemployment rate . | 4.3 | 4.6 | 3.4 | 3.9 | 4.4 | 4.5 | 10.4 | 11.6 |
| Not in labor force ......................................................... | 51,872 | 52,311 | 14,968 | 15,265 | 33,348 | 33,106 | 3,556 | 3,941 |
| Black |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population | 21,060 | 21,337 | 8,384 | 8,526 | 10,503 | 10,670 | 2,173 | 2,141 |
| Civilian labor force | 13,694 | 13,584 | 6,263 | 6,302 | 6,338 | 6,331 | 1,092 | 951 |
| Percent of population.. | 65.0 | 63.7 | 74.7 | 73.9 | 60.3 | 59.3 | 50.3 | 44.4 |
| Employed. | 12,197 | 12,027 | 5,686 | 5,678 | 5,710 | 5,684 | 801 | 664 |
| Agriculture | 184 | 171 | 133 | 137 | 21 | 17 | 30 | 17 |
| Nonagricultural industries .. | 12,013 | 11,856 | 5,553 | 5,541 | 5,689 | 5,668 | 771 | 647 |
| Unemployed | 1,497 | 1,557 | 578 | 624 | 628 | 646 | 291 | 287 |
| Unemployment rate ................................................. | 10.9 | 11.5 | 9.2 | 9.9 | 9.9 | 10.2 | 26.6 | 30.2 |
| Not in labor force .......... | 7,366 | 7,753 | 2,120 | 2,224 | 4,165 | 4,339 | 1,081 | 1,190 |

A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin
(Numbers in thousands)

| Employment status, years of school completed, race, and Hispanic origin | August 1990 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Civilian noninstitutional population | Civilian labor force |  |  |  |  |  |  |  |  |
|  |  | Total | Percent of population | Employed |  |  | Unemployed |  |  |  |
|  |  |  |  | Total | $\begin{aligned} & \text { Full } \\ & \text { time } \end{aligned}$ | Part time ${ }^{1}$ | Total |  |  | Percent of labor force |
| TOTAL ENROLLED |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years .......................................... | 4,879 | 2,713 | 55.6 | 2,435 | 1,139 | 1,296 | 278 | 93 | 185 | 10.2 |
| 16 to 19 years ................................................... | 2,644 | 1,306 | 49.4 | 1,127 | 410 | 717 | 179 | 44 | 135 | 13.7 |
| 20 to 24 years .................................................... | 2,235 | 1,407 | 62.9 | 1,308 | 729 | 579 | 99 | 49 | 50 | 7.1 |
| High school ......... | 1,520 | 645 | 42.4 | 511 | 128 | 383 | 134 | 26 | 108 | 20.8 |
| College ................... | 3,359 | 2,067 | 61.5 | 1,923 | 1,010 | 913 | 144 | 67 | 76 | 7.0 |
| Full-time students ........................................ | 2,704 | 1,514 | 56.0 | 1,398 | 679 | 719 | 116 | 47 | 69 | 7.6 |
| Part-time students ................................................ | 656 | 553 | 84.4 | 525 | 331 | 194 | 28 | 20 | 8 | 5.1 |
| Men, 16 to 24 years ................................................. | 2,454 | 1,407 | 57.4 | 1,265 | 609 | 655 | 143 | 47 | 96 | 10.1 |
| 16 to 19 years ............................................... | 1,342 | 698 | 52.0 | 599 | 208 | 391 | 99 | 24 | 75 | 14.2 |
| 20 to 24 years ................................................... | 1,112 | 709 | 63.8 | 665 | 401 | 264 | 44 | 23 | 21 | 6.2 |
| High school ...... | 821 | 389 | 47.4 | 306 | 66 | 240 | 83 | 16 | 67 | 21.3 |
| College ................. | 1,633 | 1,018 | 62.4 | 958 | 543 | 415 | 60 | 31 | 29 | 5.9 |
| Full-time students ........................................ | 1,328 | 750 | 56.5 | 704 | 378 | 325 | 47 | 23 | 24 | 6.2 |
| Part-time students .......................................... | 305 | 268 | 87.8 | 254 | 165 | 90 | 13 | 8 | 5 | 5.0 |
| Women, 16 to 24 years ....................................... | 2,425 | 1,305 | 53.8 | 1,170 | 530 | 640 | 135 | 46 | 89 | 10.4 |
| 16 to 19 years ............................................... | 1,302 | 607 | 46.7 | 528 | 202 | 326 | 60 | 20 | 60 | 13.1 |
| 20 to 24 years .................................................... | 1,124 | 698 | 62.1 | 642 | 328 | 315 | 55 | 26 | 29 | 7.9 |
| High school ............................................................... | 699 | 256 | 36.6 | 205 | 62 | 142 | 51 | 10 | 41 | 20.1 |
| College .......................................................... | 1,726 | 1,049 | 60.8 | 965 | 467 | 498 | 84 | 36 | 48 | 8.0 |
| Full-time students .......................................... | 1,376 | 764 | 55.5 | 694 | 301 | 394 | 69 | 24 | 45 | 9.1 |
| Part-time students .................................................. | 350 | 285 | 81.5 | 271 | 167 | 104 | 15 | 12 | 3 | 5.1 |
| White |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years <br> 16 to 19 years <br> 20 to 24 years | 3,828 | 2,299 | 60.154.2 | $\begin{array}{r}2,105 \\ 975 \\ \hline 150\end{array}$ | 1,001371 | 1,104603 | 194137 | 5935 | 135 | 8.4 |
|  | $\begin{aligned} & \mathbf{2 , 0 5 1} \\ & \mathbf{1}, 777 \end{aligned}$ | 1,111 1,187 |  |  |  |  |  |  | 102 | 12.3 |
|  |  | 1,187 | 66.8 | 1,130 | 630 | 500 | 57 | 24 | 33 | 4.8 |
| Men ....................................................................... | $\begin{aligned} & 1,903 \\ & 1,925 \end{aligned}$ | $\begin{aligned} & 1,183 \\ & 1,116 \end{aligned}$ | $\begin{aligned} & 62.2 \\ & 58.0 \end{aligned}$ | $\begin{aligned} & 1,078 \\ & 1,027 \end{aligned}$ | $\begin{aligned} & 535 \\ & 466 \end{aligned}$ | $\begin{aligned} & 542 \\ & 561 \end{aligned}$ | $\begin{array}{r} 105 \\ 89 \end{array}$ | 3028 | $\begin{aligned} & 75 \\ & 60 \end{aligned}$ | 8.98.0 |
| Women ......................... |  |  |  |  |  |  |  |  |  |  |
| High school ............................................................. | 1,127 | 529 | 47.0 | 431 | 112 | 320 | 98 | 19 | 79 | 18.5 |
| College ............................................................ | 2,701 | 1,769 | 65.5 | 1,673 | 890 | 784 | 96 | 40 | 56 | 5.4 |
| Full-time students ...................................... | 2,175 | 1,312 | 60.3 | 1,233 | 610 | 624 | 79 | 30 | 49 | 6.0 |
| Part-time students ............................................ | 525 | 457 | 87.0 | 440 | 280 | 160 | 17 | 10 | 7 | 3.7 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years $\qquad$ <br> 16 to 19 years <br> 20 to 24 years $\qquad$ | $\begin{aligned} & 782 \\ & 476 \\ & 306 \end{aligned}$ | $\begin{aligned} & 3169 \\ & 165 \\ & 144 \end{aligned}$ | $\begin{aligned} & 39.5 \\ & 34.6 \end{aligned}$ | $\begin{aligned} & 236 \\ & 126 \end{aligned}$ | $\begin{aligned} & 94 \\ & 30 \end{aligned}$ | 1429646 | $\begin{aligned} & 73 \\ & 39 \end{aligned}$ | $\begin{array}{r} 31 \\ 8 \end{array}$ | $\begin{aligned} & 42 \\ & 31 \end{aligned}$ | 23.723.4 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 47.1 | 110 | 63 | 46 | 35 | 23 | 12 | 24.0 |
| Men ............................................................................ | 406377 | $\begin{aligned} & 170 \\ & 139 \end{aligned}$ | $\begin{aligned} & 42.0 \\ & 36.8 \end{aligned}$ | 13799 | $\begin{array}{r} 49 \\ 45 \end{array}$ | 8854 | 3439 | 1615 | 1725 | 19.928.5 |
| Women ................................................................... |  |  |  |  |  |  |  |  |  |  |
| High school ........................................................ | $\begin{array}{r} 320 \\ 462 \\ 367 \\ 95 \end{array}$ | $\begin{array}{r} 99 \\ 210 \\ 134 \\ 77 \end{array}$ | $\begin{aligned} & 30.8 \\ & 45.5 \\ & 36.4 \\ & 80.8 \end{aligned}$ | $\begin{array}{r} 64 \\ 172 \\ 106 \\ 66 \end{array}$ | $\begin{aligned} & 12 \\ & 82 \\ & 41 \\ & 41 \end{aligned}$ | $\begin{aligned} & 52 \\ & 90 \\ & 65 \\ & 25 \end{aligned}$ | $\begin{aligned} & 35 \\ & 39 \\ & 28 \\ & 11 \end{aligned}$ | $\begin{array}{r} 6 \\ 25 \\ 14 \\ 11 \end{array}$ | 29 | 35.218.3 |
| College ...................................................................... |  |  |  |  |  |  |  |  | 14 |  |
| Full-time students ................................................ |  |  |  |  |  |  |  |  | 14 | 20.8 |
| Part-time students .............................................. |  |  |  |  |  |  |  |  | - | 14.1 |
| Hispanic origin |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years ............................................... | $\begin{aligned} & 379 \\ & 240 \\ & 139 \end{aligned}$ | 18280102 | 48.233.573. | 16570 | 82 <br> 23 | 8347 | $\begin{aligned} & 17 \\ & 11 \end{aligned}$ | 5 | 13 | 9.513.3 |
| 16 to 19 years ................................................................ |  |  |  |  |  |  |  | 3 | 8 |  |
| 20 to 24 years ................................................................ |  | 102 | 73.6 | 95 | 59 | 36 | 7 | 2 | 5 | 6.5 |
| Men ................................................................ | 179200 | 11171 | 62.235.7 | 103 | 42 40 | 61 22 | 99 | 14 | 85 | $\mathrm{i}^{7.7}$ |
| Women ....................................................................... |  |  |  | 62 | 40 | 22 |  |  |  |  |
| High school ....................................................... | $\begin{array}{r} 204 \\ 175 \\ 115 \\ 60 \end{array}$ | $\begin{array}{r} 73 \\ 110 \\ 59 \\ 50 \end{array}$ | $\begin{aligned} & 35.8 \\ & 62.5 \\ & 51.6 \\ & \left(^{2}\right) \end{aligned}$ | $\begin{array}{r} 62 \\ 103 \\ 53 \\ 50 \end{array}$ | 19643133 | $\begin{aligned} & 43 \\ & 39 \\ & 23 \\ & 17 \end{aligned}$ | 11661 | 1 | 10 | ${ }^{(2)}$ |
| College .......................................................................... |  |  |  |  |  |  |  | 4 | 3 | 5.8 |
| Full-time students ...................................................... |  |  |  |  |  |  |  | 4 | 2 | ${ }^{(2)}$ |
| Part-time students ................................................. |  |  |  |  |  |  |  | - | 1 | ( ${ }^{2}$ |

See footnotes at end of table.

## HOUSEHOLD DATA

NOT SEASONALLY ADJUSTED
A-7. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, years of school completed, sex, race, and Hispanic origin-Continued
(Numbers in thousands)

| Employment status, years of school completed, race, and Hispanic origin | August 1990 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Civilian noninstitutional population | Civilian labor force |  |  |  |  |  |  |  |  |
|  |  |  |  | Employed |  |  | Unemployed |  |  |  |
|  |  | Total | Percent of population | Total | $\begin{aligned} & \text { Full } \\ & \text { time } \end{aligned}$ | Part time' | Total | Looking for full-time work | Looking for part-time work | Percent of labor force |
| TOTAL NOT ENROLED |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years ...................................................... | $\begin{aligned} & 26,640 \\ & 11,067 \\ & 15,573 \end{aligned}$ | 19,9126,95912,953 | $\begin{aligned} & 74.7 \\ & 82.9 \\ & 83.2 \end{aligned}$ | $\begin{array}{r} 17,862 \\ 6,002 \\ 11,859 \end{array}$ | $\begin{array}{r} 13,395 \\ 3,183 \end{array}$ | $\begin{aligned} & 4,466 \\ & 2,819 \end{aligned}$ | $\begin{array}{r}2,051 \\ \hline 957\end{array}$ | 1,481 |  | 10.3 |
| 16 to 19 years ................................................... |  |  |  |  |  |  |  |  | $\begin{aligned} & 570 \\ & 421 \end{aligned}$ | 13.8 |
| 20 to 24 years ........................................................ |  |  |  |  | 10,212 | 1,647 | 1,093 | 944 | 149 | 8.4 |
| Less than 4 years of high school ............................ | $\begin{array}{r} 9,384 \\ 10,118 \\ 5,319 \\ 1,819 \end{array}$ | $\begin{aligned} & 5,445 \\ & 8,366 \\ & 4,406 \\ & 1,695 \end{aligned}$ | 58.0 | 4,538 | 2,532 | 2,006 | 908 | 545 | 362 | 16.7 |
| 4 years of high school .......................................... |  |  | 82.7 | 7.568 | 6.175 | 1,394 | 798 | 664 | 134 | 9.5 |
| 1 to 3 years of college .......................................... |  |  | 82.8 | 4,181 | 3,270 | 911 | 225 | 164 | 61 | 5.1 |
| 4 years of college or more ............................................. |  |  | 93.2 | 1,574 | 1,419 | 155 | 120 | 108 | 13 | 7.1 |
| Men, 16 to 24 years ..................................................... | $\begin{array}{r} 13,109 \\ 5,560 \end{array}$ | 10,494 | $\begin{aligned} & 80.0 \\ & 65.7 \end{aligned}$ | $\begin{aligned} & 9,447 \\ & 3,142 \end{aligned}$ | 7,5301,8315,899 | 1,916$\mathbf{1 , 3 1 1}$ | 1,047512 | 770 | 277 | 10.0 |
| 16 to 19 years ................................................ |  | 3,654 |  |  |  |  |  | 295 | 216 | 14.0 |
| 20 to 24 years .................................................... | 7,549 | 6,840 | 90.8 | 6,305 |  | 805 | 535 | 475 | 60 | 7.8 |
| Less than 4 years of high school ......................... | $\begin{array}{r} 4,910 \\ 4,977 \\ 2,429 \\ 793 \end{array}$ | $\begin{aligned} & 3,252 \\ & 4,454 \\ & 2,052 \end{aligned}$ | $\begin{aligned} & 66.2 \\ & 89.5 \end{aligned}$ | $\begin{aligned} & 2,742 \\ & 4,064 \end{aligned}$ | 1,786 | 956 | 510 | 315 | 196 |  |
| 4 years of high school ....................................... |  |  |  |  | 3,509 | 555 | 390 | 348 | 42 | 15.7 8.8 |
| 1 to 3 years of college ........................................ |  |  | 84.592.7 | $\begin{array}{r} 1,958 \\ 664 \end{array}$ | $\begin{array}{r} 1,595 \\ 641 \end{array}$ | 36343 | 9452 | 6344 | 31 | 4.6 |
| 4 years of college or more .......................................... |  | 736 |  |  |  |  |  |  | 8 | 7.1 |
| Women, 16 to 24 years ......................................... | 13,5315,5078,024 | 9,4183,305 | $\begin{aligned} & 89.6 \\ & 60.0 \\ & 76.2 \end{aligned}$ | 8,4152,860 | $\begin{aligned} & 5,865 \\ & 1,352 \\ & 4,513 \end{aligned}$ | $\begin{aligned} & 2,550 \\ & 1,508 \end{aligned}$ | 1,004445 | 711 | 293 | 10.7 |
| 16 to 19 years ............................................. |  |  |  |  |  |  |  | 241 | 204 | 13.5 |
| 20 to 24 years ............................................................ |  | 6,113 |  | 5,555 |  | 1,042 | 558 | 470 | 89 | 9.1 |
| Less than 4 years of high school ........................ | $\begin{aligned} & 4,473 \\ & 5,141 \\ & 2,891 \\ & 1,026 \end{aligned}$ | $\begin{array}{r} 2,193 \\ 3,912 \\ 2,354 \\ 959 \end{array}$ | $\begin{aligned} & 49.0 \\ & 76.1 \\ & 81.4 \\ & 93.5 \end{aligned}$ | $\begin{array}{r} 1,796 \\ 3,505 \\ 2,224 \\ 891 \end{array}$ | $\begin{array}{r} 746 \\ 2,666 \\ 1,675 \\ 778 \end{array}$ | 1,050 | 397 | 231 | 167 | 18.1 |
| 4 years of high school ....................................... |  |  |  |  |  | $\begin{aligned} & 839 \\ & 548 \end{aligned}$ | $\begin{aligned} & 407 \\ & 131 \end{aligned}$ | $\begin{aligned} & 316 \\ & 101 \end{aligned}$ | 91 | 10.4 |
| 1 to 3 years of college ......................................... |  |  |  |  |  |  |  |  | 30 | 5.67.1 |
| 4 years of college or more ......................................... |  |  |  |  |  | 113 | 68 | 64 | 5 |  |
| White |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years .............................................. | $\begin{array}{r} 21,879 \\ 8,989 \\ 12,890 \end{array}$ | $\begin{array}{r} 16,936 \\ 5,988 \end{array}$ | $\begin{aligned} & 77.4 \\ & 66.6 \end{aligned}$ | 15,5025,29810,28 | $\begin{array}{r} 11,635 \\ 2,834 \end{array}$ | $\begin{aligned} & 3,866 \\ & 2,465 \end{aligned}$ | 1,4346907 | 1,032389 | $\begin{aligned} & 402 \\ & 300 \end{aligned}$ | 8.511.5 |
| 16 to 19 years ..................................................... |  |  |  |  |  |  |  |  |  |  |
| 20 to 24 years ................................ |  | 10,948 | 84.9 | 10,203 | 8,802 | 1,402 | 744 | 643 | 102 | 6.8 |
| Men .................................................................. | $\begin{aligned} & 10,870 \\ & 11,009 \end{aligned}$ | $\begin{aligned} & 8,981 \\ & 7,955 \end{aligned}$ | 82.672.3 | $\begin{aligned} & 8,233 \\ & 7,268 \end{aligned}$ | $\begin{aligned} & 6,589 \\ & 5,046 \end{aligned}$ | 1,644$\mathbf{2 , 2 2 2}$ | 747686 | 547 | 201 | 8.38.6 |
| Women .............................................................. |  |  |  |  |  |  |  | 485 |  |  |
| Less than 4 years of high school ........................... | $\begin{aligned} & 7,455 \\ & 8,281 \\ & 4,512 \\ & 1,632 \end{aligned}$ | $\begin{aligned} & 4,625 \\ & 7,013 \\ & 3,775 \\ & 1,523 \end{aligned}$ | $\begin{aligned} & 62.0 \\ & 84.7 \\ & 83.7 \\ & 93.3 \end{aligned}$ | $\begin{aligned} & 3,997 \\ & 8,464 \\ & 3,619 \\ & 1,423 \end{aligned}$ | $\begin{aligned} & 2,257 \\ & 5,272 \\ & 2,823 \\ & 1,284 \end{aligned}$ | $\begin{array}{r} 1,740 \\ 1,192 \\ 796 \\ 138 \end{array}$ | $\begin{aligned} & 628 \\ & 549 \\ & 157 \\ & 100 \end{aligned}$ | $\begin{array}{r} 373 \\ 460 \\ 110 \\ 89 \end{array}$ | $\begin{array}{r} 255 \\ 89 \\ 47 \\ 11 \end{array}$ | 13.67.84.16.6 |
| 4 years of high school .......................................... |  |  |  |  |  |  |  |  |  |  |
| 1 to 3 years of college ..................................................... |  |  |  |  |  |  |  |  |  |  |
| 4 years of college or more ..................................... |  |  |  |  |  |  |  |  |  |  |
| Black |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years ............................................. | $\begin{aligned} & 3,798 \\ & 1,665 \\ & 2,133 \end{aligned}$ | $\begin{array}{r}2,367 \\ \hline 868\end{array}$ | 62.347.2 | $\begin{array}{r}1,802 \\ 538 \\ \hline\end{array}$ | 1,315246 | 488292 | 565248 | 420141 | 144108 | 23.931.620.0 |
| 16 to 19 years ...................................................... |  |  |  |  |  |  |  |  |  |  |
| 20 to 24 years ........................................................... |  | 1,581 | 74.1 | 1,265 | 1,069 | 196 | 316 | 280 | 37 |  |
| Men ................................................................ | $\begin{aligned} & 1,766 \\ & 2,032 \end{aligned}$ | $\begin{aligned} & 1,192 \\ & 1,175 \end{aligned}$ | $\begin{aligned} & 67.5 \\ & 57.8 \end{aligned}$ | $\begin{aligned} & 919 \\ & 884 \end{aligned}$ | 703612 | 215 272 | 274291 | 204216 | 6975 | 22.924.8 |
| Women ............................................................. |  |  |  |  |  | 272 |  |  |  |  |
| Less than 4 years of high school ............................ | $\begin{array}{r} 1,560 \\ 1,554 \\ 573 \\ 111 \end{array}$ | $\begin{array}{r} 663 \\ 1,137 \\ 459 \\ 108 \end{array}$ | $\begin{aligned} & 42.5 \\ & 73.2 \\ & 80.1 \\ & 97.4 \end{aligned}$ | $\begin{array}{r} 404 \\ 902 \\ 399 \\ 96 \end{array}$ | $\begin{array}{r} 185 \\ 725 \\ 312 \\ 93 \end{array}$ | $\begin{array}{r} 219 \\ 177 \\ 88 \\ 3 \end{array}$ | $\begin{array}{r} 259 \\ 235 \\ 59 \\ 12 \end{array}$ | $\begin{array}{r} 163 \\ 196 \\ 50 \\ 12 \end{array}$ | 9739-9 | 39.120.612.910.9 |
| 4 years of high schoot .......................................... |  |  |  |  |  |  |  |  |  |  |
| 1 to 3 years of college .......................................... |  |  |  |  |  |  |  |  |  |  |
| 4 years of college or more .................................... |  |  |  |  |  |  |  |  |  |  |
| Hispantc origln |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years ............................................. | $\begin{aligned} & 3,054 \\ & 1,192 \\ & 1,862 \end{aligned}$ | $\begin{array}{r} 2,162 \\ 684 \\ 1.479 \end{array}$ | 70.857.379.4 | $\begin{array}{r} 1,910 \\ 569 \\ 1,340 \end{array}$ | $\begin{array}{r} 1,551 \\ 376 \end{array}$ | 359193 | 253114 | 20481123 | 48 | 11.7 |
| 16 to 19 years .................................................... |  |  |  |  |  |  |  |  | 33 | 16.7 |
| 20 to 24 years ..................................................... |  |  | 79.4 |  | $1,174$ | 168 | 138 | 123 | 15 | 9.3 |
| Men .................................................................. | $\begin{aligned} & 1,588 \\ & 1,466 \end{aligned}$ | $\begin{array}{r} 1,322 \\ 840 \end{array}$ | $\begin{aligned} & 83.3 \\ & 57.3 \end{aligned}$ | 1.165744 | $\begin{aligned} & 998 \\ & 553 \end{aligned}$ | 168 | 157 | 124 | 33 | 11.9 |
| Women .............................................................. |  |  |  |  |  | 192 | 95 | 80 | 15 | 11.4 |
| Less than 4 years of high school ............................ | $\begin{array}{r} 1,756 \\ 969 \\ 282 \\ 47 \end{array}$ | $\begin{array}{r} 1,117 \\ 784 \\ 220 \\ 41 \end{array}$ | 63.6 | 971 | 772 | 199 | 146 | 113 | 33 | 13.1 |
| 4 years of high school .......................................... |  |  | 80.9 | 699 | 594 | 105 | 85 | 74 | 11 | 10.8 |
| 1 to 3 years of college ......................................... |  |  | 77.9 | 199 | 148 | 51 | 21 | 17 | 4 | 9.4 |
| 4 years of college or more ....................................... |  |  | ( ${ }^{2}$ ) | 40 | 36 | 5 | 1 | 1 | - | ${ }^{(2)}$ |

' Employed persons with a job but not at work and persons at work part time are distributed according to whether they usually work full or part time.

2 Data not shown where base is less than 75,000 .
NOTE: In the summer months, the educational attainment levels of youth not enrolled in school are increased by the temporary movement of high school and
coliege students into that group. Detail for the above race and Hispanic-origin coliege students inio that group. Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

A-8. Employment status of male Vietnam-era veterans and nonveterans by age
(Numbers in thousands)

| Veteran status and age | Civilian noninstitutional population |  | Civilian labor force |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | Aug.$1990$ | Total |  | Employed |  | Unemployed |  |  |  |
|  |  |  | Aug. | $\begin{aligned} & \text { Aug. } \\ & 1990 \end{aligned}$ | Aug. <br> 1989 | Aug. <br> 1990 | Number |  | Percent of labor force |  |
|  |  |  |  |  |  |  | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. <br> 1990 |
| VIETNAM-ERA VETERANS |  |  |  |  |  |  |  |  |  |  |
| Total, 35 years and over ............................. | 7,471 | 7,658 | 6,827 | 6,957 | 6,625 | 6,698 | 202 | 259 | 3.0 | 3.7 |
| 35 to 49 years ......................................... | 6,482 | 6,513 | 6,165 | 6,155 | 5,973 | 5,922 | 192 | 232 | 3.1 | 3.8 |
| 35 to 39 years ...................................... | 1,702 | 1,382 | 1,598 | 1,310 | 1,521 | 1,242 | 77 | 67 | 4.8 | 5.2 |
| 40 to 44 years ...................................... | 3,291 | 3,283 | 3,157 | 3,104 | 3,086 | 2,996 | 72 | 108 | 2.3 | 3.5 |
| 45 to 49 years ...................................... | 1,489 | 1,848 | 1,409 | 1,741 | 1,366 | 1,684 | 43 | 57 | 3.1 | 3.3 |
| 50 years and over .................................... | 989 | 1,145 | 662 | 803 | 652 | 776 | 10 | 27 | 1.5 | 3.3 |
| NONVETERANS |  |  |  |  |  |  |  |  |  |  |
| Total, 35 to 49 years ................................... | 16,309 | 17,479 | 15,262 | 16,340 | 14,763 | 15,771 | 499 | 570 | 3.3 | 3.5 |
| 35 to 39 years ......................................... | 7,487 | 8,016 | 7,094 | 7,597 | 6,849 | 7,321 | 245 | 276 | 3.5 | 3.6 |
| 40 to 44 years ......................................... | 4,714 | 5,256 | 4,382 | 4,885 | 4,230 | 4,727 | 152 | 157 | 3.5 | 3.2 |
| 45 to 49 years ......................................... | 4,108 | 4,207 | 3,786 | 3,859 | 3,685 | 3,722 | 101 | 137 | 2.7 | 3.5 |

NOTE: Male Vietnem-era veterans are men who served in the Armed Forces between August 5, 1964 and May 7, 1975. Nonveterans are men who have never served in the Armed Forces; published data
are limited to those 35 to 49 years of age, the group that most closely corresponds to the bulk of the Vietnam-era veteran population.

A-9. Employed and unemployed full- and part-time workers by sex, age, and race
(In thousands)

| Sex, age, and race | August 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Employed |  |  |  |  |  | Unemployed |  |
|  | Full time |  |  | Part time |  |  | Looking for full-time work | Looking for part-time work |
|  | Total | Full-time schedules ${ }^{1}$ | Part time for economic reasons, usually work full time | Total | Voluntary ${ }^{1}$ | Part time for economic reasons, usually work part time |  |  |
| TOTAL |  |  |  |  |  |  |  |  |
| Total, 16 years and over .................. | 100,875 | 98,846 | 2,029 | 18,299 | 14,960 | 3,339 | 5,477 | 1,360 |
| 16 to 19 years ..................................... | 3,593 | 3,435 | 158 | 3,536 | 2,746 | 790 | 581 | 555 |
| 16 to 17 years .................................. | 828 | 794 | 35 | 1,959 | 1,600 | 359 | 131 | 379 |
| 18 to 19 years .................................. | 2,765 | 2,641 | 123 | 1,577 | 1,146 | 431 | 450 | 176 |
| 20 years and over ................................ | 97,282 | 95,411 | 1,871 | 14,763 | 12,214 | 2,549 | 4,897 | 804 |
| 20 to 24 years .................................. | 10,941 | 10,614 | 327 | 2,226 | 1,649 | 577 | 993 | 199 |
| 25 years and over ............................. | 86,341 | 84,797 | 1,544 | 12,537 | 10,565 | 1,972 | 3,903 | 605 |
| 25 to 54 years ................................. | 75,333 | 74,002 | 1,331 | 8,690 | 7,065 | 1,626 | 3,538 | 474 |
| 55 years and over ........................... | 11,008 | 10,795 | 213 | 3,847 | 3,500 | 346 | 365 | 131 |
| Men, 16 years and over ................... | 59,810 | 58,677 | 1,133 | 5,794 | 4,385 | 1,409 | 2,988 | 533 |
| 16 to 19 years ..................................... | 2,039 | 1,965 | 74 | 1,702 | 1,304 | 399 | 319 | 291 |
| 20 years and over ................................ | 57,771 | 56,712 | 1,059 | 4,092 | 3,082 | 1,010 | 2,669 | 241 |
| 20 to 24 years .................................. | 6,100 | 5,920 | 180 | 869 | 623 | 247 | 498 | 81 |
| 25 years and over ............................. | 51,670 | 50,792 | 879 | 3,222 | 2,459 | 763 | 2,171 | 160 |
| 25 to 54 years ................................. | 44,681 | 43,935 | 746 | 1,657 | 1,056 | 600 | 1,933 | 106 |
| 55 years and over ............................. | 6,990 | 6,857 | 133 | 1,566 | 1,403 | 163 | 238 | 54 |
| Women, 16 years and over .............. | 41,065 | 40,169 | 896 | 12,505 | 10,575 | 1,931 | 2,489 | 827 |
| 16 to 19 years ..................................... | 1,554 | 1,470 | 84 | 1,834 | 1,442 | 391 | 261 | 264 |
| 20 years and over ................................ | 39,511 | 38,699 | 812 | 10,671 | 9,132 | 1,539 | 2,228 | 563 |
| 20 to 24 years .................................. | 4,841 | 4,694 | 146 | 1,357 | 1,026 | 330 | 496 | 118 |
| 25 years and over .............................. | 34,671 | 34,005 | 665 | 9,315 | 8,106 | 1,209 | 1,732 | 445 |
| 25 to 54 years .... | 30,652 | 30,067 | 585 | 7,034 | 6,009 | 1,025 | 1,605 | 368 |
| 55 years and over ......................... | 4,019 | 3,938 | 80 | 2,281 | 2,097 | 183 | 127 | 78 |
| White |  |  |  |  |  |  |  |  |
| Men, 16 years and over ................... | 52,480 | 51,568 | 912 | 4,965 | 3,821 | 1,144 | 2,209 | 416 |
| 16 to 19 years ..................................... | 1,836 | 1,776 | 60 | 1,460 | 1,118 | 341 | 239 | 214 |
| 20 years and over ................................ | 50,644 | 49,792 | 852 | 3,505 | 2,703 | 802 | 1,970 | 202 |
| 20 to 24 years .................................. | 5,288 | 5,145 | 143 | 726 | 532 | 195 | 339 | 61 |
| 25 years and over ............................. | 45,355 | 44,647 | 708 | 2,779 | 2,171 | 608 | 1,632 | 141 |
| 25 to 54 years ........................ ........ | 39,077 | 38,489 | 588 | 1,369 | 898 | 471 | 1,430 | 89 |
| 55 years and over ........................... | 6,278 | 6,157 | 121 | 1,410 | 1,273 | 137 | 202 | 52 |
| Women, 16 years and over .............. | 34,607 | 33,848 | 759 | 11,164 | 9,579 | 1,584 | 1,786 | 610 |
| 16 to 19 years ..................................... | 1,369 | 1,292 | 77 | 1,608 | 1,276 | 332 | 185 | 188 |
| 20 years and over ................................ | 33,239 | 32,556 | 683 | 9,556 | 8,304 | 1,252 | 1,601 | 422 |
| 20 to 24 years .................................. | 4,143 | 4,025 | 118 | 1,175 | 900 | 276 | 328 | 74 |
| 25 years and over ............................. | 29,096 | 28,531 | 565 | 8,380 | 7,404 | 977 | 1,273 | 348 |
| 25 to 54 years ................................. | 25,594 | 25,100 | 494 | 6,359 | 5,533 | 826 | 1,169 | 282 |
| 55 years and over ............................ | 3,501 | 3,431 | 71 | 2,022 | 1,871 | 151 | 104 | 66 |
| Black |  |  |  |  |  |  |  |  |
| Men, 16 years and over ................... | 5,408 | 5,221 | 187 | 614 | 405 | 209 | 670 | 102 |
| 16 to 19 years ..................................... | 143 | 130 | 13 | 201 | 152 | 49 | 75 | 73 |
| 20 years and over ................................ | 5,266 | 5,091 | 174 | 413 | 253 | 160 | 595 | 29 |
| 20 to 24 years .................................. | 610 | 580 | 30 | 102 | 58 | 44 | 146 | 14 |
| 25 years and over ............................. | 4,656 | 4,511 | 145 | 311 | 195 | 116 | 449 | 15 |
| 25 to 54 years .................................. | 4,119 | 3,986 | 133 | 191 | 94 | 98 | 419 | 12 |
| 55 years and over ........................... | 537 | 525 | 12 | 120 | 101 | 19 | 30 | 2 |
| Women, 16 years and over ............... | 4,953 | 4,836 | 117 | 1,052 | 774 | 278 | 612 | 174 |
| 16 to 19 years ..................................... | 134 | 128 | 6 | 187 | 139 | 48 | 74 | 66 |
| 20 years and over ................................ | 4,819 | 4,708 | 111 | 865 | 635 | 230 | 538 | 108 |
| 20 to 24 years .................................. | 522 | 496 | 26 | 140 | 93 | 47 | 157 | 34 |
| 25 years and over .............................. | 4,297 | 4,212 | 84 | 725 | 542 | 183 | 381 | 74 |
| 25 to 54 years ................................. | 3,898 | 3,823 | 75 | 509 | 349 | 161 | 360 | 65 |
| 55 years and over ........................... | 398 | 389 | 9 | 216 | 194 | 22 | 21 | 10 |

[^5]to whether they usually work full or part time.

## A-10. Employment status of persons in families by family relationship

(Numbers in thousands)

| Family relationship | August 1990 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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' ....................................... | 100,969 | 67.6 | 95,413 | 5,556 | 5.5 | 48,334 | 21,982 | 1,942 | 2,714 | 21,696 |
| Husbands ............................................................ | 40,139 | 78.2 | 38,950 | 1,190 | 3.0 | 11,189 | 196 | 136 | 1,047 | 9,810 |
| With employed wife | 26,126 | 91.9 | 25,427 | 699 | 2.7 | 2,317 | 82 | 66 | 377 | 1,791 |
| With unemployed wife | 1,185 | 93.6 | 1,077 | 109 | 9.2 | 81 | 5 | 3 | 8 | 65 |
| With wife not in labor force ...................................... | 12,828 | 59.3 | 12,446 | 382 | 3.0 | 8,791 | 110 | 66 | 661 | 7,954 |
| Wives | 29,709 | 57.9 | 28,443 | 1,266 | 4.3 | 21,619 | 16,571 | 144 | 454 | 4,450 |
| With employed husband ........................................... | 26,504 | 68.0 | 25,427 | 1,077 | 4.1 | 12,446 | 10,633 | 114 | 174 | 1,525 |
| With unemployed husband ........................................ | 808 | 67.9 | 699 | 109 | 13.4 | 382 | 335 | 5 | 14 | 28 |
| With husband not in labor force ................................ | 2,398 | 21.4 | 2,317 | 81 | 3.4 | 8,791 | 5,604 | 25 | 266 | 2,896 |
| Relatives in married-couple families ............................. | 14,067 | 70.0 | 12,790 | 1,276 | 9.1 | 6,025 | 861 | 1,031 | 379 | 3,754 |
| 16 to 19 years ................ | 5,422 | 62.5 | 4,814 | 609 | 11.2 | 3,255 | 283 | 587 | 21 | 2,364 |
| 20 to 24 years ........................................................ | 4,943 | 81.4 | 4,557 | 387 | 7.8 | 1,130 | 149 | 396 | 45 | 540 |
| 25 years and over ................................................... | 3,699 | 69.3 | 3,419 | 280 | 7.6 | 1,640 | 429 | 48 | 313 | 850 |
| Women who maintain families .................................... | 6,913 | 61.8 | 6,301 | 612 | 8.9 | 4,265 | 2,981 | 113 | 248 | 923 |
| Relatives in families maintained by women .................. | 5,817 | 61.9 | 4,921 | 896 | 15.4 | 3,586 | 929 | 411 | 409 | 1,836 |
| 16 to 19 years ......................................................... | 1,467 | 50.6 | 1,131 | 337 | 23.0 | 1,434 | 239 | 262 | 21 | 912 |
| 20 to 24 years ......................................................... | 1,611 | 77.3 | 1,352 | 259 | 16.1 | 474 | 135 | 103 | 23 | 212 |
| 25 years and over .................................................. | 2,738 | 62.0 | 2,438 | 300 | 11.0 | 1,678 | 555 | 46 | 365 | 712 |
| Men who maintain families ......................................... | 2,505 | 80.9 | 2,376 | 129 | 5.1 | 590 | 42 | 20 | 81 | 447 |
| Relatives in families maintained by men ...................... | 1,819 | 63.2 | 1,632 | 187 | 10.3 | 1,060 | 402 | 87 | 96 | 474 |
| 16 to 19 years ......................................................... | 357 | 58.8 | 297 | 60 | 16.7 | 251 | 48 | 33 | 5 | 166 |
| 20 to 24 years ........................................................ | 506 | 78.9 | 454 | 52 | 10.3 | 135 | 41 | 27 | 11 | 57 |
| 25 years and over ................................................... | 956 | 58.7 | 881 | 75 | 7.8 | 674 | 313 | 27 | 80 | 251 |

${ }^{1}$ Excludes persons living alone or with nonrelatives, persons in families where the husband, wife, or other person maintaining the family is in the Armed Forces, and persons in unrelated subfamilies.

NOTE: Estimates shown in this table for husbands, wives, and women
who maintain families are somewhat different from marital status estimates shown in other tables in this publication because of differences in definitions and weighting patterns used in aggregating the data.

## HOUSEHOLD DATA

NOT SEASONALLY ADJUSTED
A-11. Unemployed persons by marital status, race, age, and sex

| Marital status, race, and age | Men |  |  |  | Women |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands of persons |  | Unemployment rates |  | Thousands of persons |  | Unemployment rates |  |
|  | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. 1990 | Aug. <br> 1989 | Aug. $1990$ | Aug. 1989 | Aug. <br> 1990 |
| Total, 16 years and over ..... | 3,157 | 3,521 | 4.6 | 5.1 | 3,195 | 3,316 | 5.7 | 5.8 |
| Married, spouse present ...................................... | 1,147 | 1,298 | 2.7 | 3.1 | 1,304 | 1,347 | 4.4 | 4.4 |
| Widowed, divorced, or separated ......................... | 419 | 452 | 5.7 | 5.9 | 686 | 709 | 6.2 | 6.2 |
| Single (never married) ......................................... | 1,590 | 1,771 | 8.1 | 9.1 | 1,205 | 1,260 | 7.9 | 8.5 |
| White, 16 years and over ............................. | 2,331 | 2,625 | 3.9 | 4.4 | 2,328 | 2,396 | 4.9 | 5.0 |
| Married, spouse present ..................................... | 909 | 1,054 | 2.4 | 2.8 | 1,098 | 1,135 | 4.1 | 4.2 |
| Widowed, divorced, or separated ......................... | 314 | 331 | 5.2 | 5.2 | 488 | 498 | 5.5 | 5.4 |
| Single (never married) ......................................... | 1,109 | 1,240 | 6.8 | 7.7 | 742 | 763 | 6.1 | 6.5 |
| Black, 16 years and over ............................. | 722 | 771 | 10.5 | 11.4 | 775 | 786 | 11.3 | 11.6 |
| Married, spouse present ..................................... | 195 | 178 | 6.1 | 5.7 | 170 | 129 | 7.2 | 5.6 |
| Widowed, divorced, or separated ......................... | 96 | 106 | 9.5 | 10.0 | 179 | 191 | 9.4 | 9.6 |
| Single (never married) ......................................... | 431 | 488 | 16.3 | 18.7 | 425 | 466 | 16.4 | 18.5 |
| Total, 25 years and over .............................. | 1,908 | 2,331 | 3.4 | 4.1 | 2,092 | 2,177 | 4.7 | 4.7 |
| Married, spouse present ................................. | 1,056 | 1,213 | 2.6 | 3.0 | 1,097 | 1,171 | 3.9 | 4.1 |
| Widowed, divorced, or separated ......................... | 370 | 439 | 5.2 | 5.9 | 631 | 643 | 5.9 | 5.8 |
| Single (never married) ........................................... | 482 | 679 | 5.4 | 7.2 | 364 | 364 | 5.6 | 5.5 |
| White, 25 years and over ............................. | 1,428 | 1,773 | 2.9 | 3.6 | 1,556 | 1,621 | 4.1 | 4.1 |
| Married, spouse present ..................................... | 833 | 996 | 2.3 | 2.8 | 922 | 989 | 3.8 | 3.9 |
| Widowed, divorced, or separated ......................... | 277 | 319 | 4.7 | 5.2 | 444 | 442 | 5.2 | 5.0 |
| Single (never married) ......................................... | 317 | 457 | 4.3 | 6.0 | 190 | 190 | 3.9 | 3.9 |
| Black, 25 years and over ............................. | 419 | 464 | 7.8 | 8.5 | 473 | 455 | 8.8 | 8.3 |
| Married, spouse present ..................................... | 183 | 155 | 6.0 | 5.2 | 143 | 108 | 6.5 | 5.1 |
| Widowed, divorced, or separated ......................... | 84 | 105 | 8.4 | 10.1 | 169 | 182 | 9.1 | 9.3 |
| Single (never married) ......................................... | 153 | 203 | 11.8 | 14.6 | 161 | 165 | 12.0 | 11.7 |

A-12. Unemployed persons by occupation and sex

| Occupation | Thousands of persons |  | Unemployment rates |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | Total |  | Men |  | Women |  |
|  | Aug. 1989 | Aug. 1990 | Aug. $1989$ | Aug. <br> 1990 | Aug. 1989 | Aug. $1990$ | Aug. 1989 | Aug. $1990$ |
| Total, 16 years and over ........................................................................... | 6,352 | 6,837 | 5.1 | 5.4 | 4.6 | 5.1 | 5.7 | 5.8 |
| Managerial and professional specialty ........................................................... | 642 | 807 | 2.1 | 2.6 | 1.5 | 2.1 | 2.8 | 3.2 |
| Executive, administrative, and managerial .................................................... | 317 | 364 | 2.1 | 2.4 | 1.5 | 2.0 | 2.9 | 2.8 |
| Protessional specialty ................................................................................ | 325 | 443 | 2.1 | 2.8 | 1.5 | 2.2 | 2.8 | 3.4 |
| Technical, sales, and administrative support | 1,494 | 1,681 | 3.9 | 4.4 | 2.9 | 3.7 | 4.4 | 4.8 |
| Technicians and related support ................................................................. | 83 | 134 | 2.2 | 3.4 | 2.1 | 4.1 | 2.2 | 2.7 |
| Sales occupations .................... | 658 | 646 | 4.4 | 4.4 | 2.7 | 2.8 | 6.1 | 6.0 |
| Administrative support, including clerical ..................................................... | 753 | 901 | 3.9 | 4.7 | 4.0 | 5.1 | 3.9 | 4.5 |
| Service occupations | 1,104 | 1,105 | 6.4 | 6.4 | 6.0 | 6.2 | 6.7 | 6.5 |
| Private household.. | 67 | 36 | 6.7 | 4.1 | (') | ${ }^{(1)}$ | 6.9 | 3.8 |
| Protective service | 80 | 73 | 3.6 | 3.3 | 3.0 | 3.3 | 6.1 | 3.0 |
| Service, except private household and protective ......................................... | 958 | 997 | 6.9 | 7.0 | 7.1 | 7.2 | 6.7 | 6.9 |
| Precision production, craft, and repair | 659 | 772 | 4.5 | 5.3 | 4.3 | 5.1 | 7.0 | 7.1 |
| Mechanics and repairers ........ | 132 | 178 | 2.8 | 3.8 | 2.7 | 3.9 | 6.1 | 2.7 |
| Construction trades ..................................................................................... | 317 | 377 | 5.6 | 6.6 | 5.5 | 6.6 | 8.8 | 6.5 |
| Other precision production, craft, and repair ................................................ | 211 | 217 | 4.8 | 5.1 | 4.2 | 4.2 | 6.9 | 8.0 |
| Operators, fabricators, and laborers ............................................................... | 1,490 | 1,467 | 7.5 | 7.4 | 6.8 | 7.0 | 9.5 | 8.7 |
| Machine operators, assemblers, and inspectors ............................................ | 682 | 715 | 7.6 | 7.8 | 6.0 | 7.0 | 9.7 | 9.0 |
| Transportation and material moving occupations.. | 297 | 250 | 5.7 | 4.9 | 5.7 | 4.7 | 5.8 | 7.0 |
| Handlers, equipment cleaners, helpers, and laborers ..................................... | 512 | 503 | 9.1 | 9.0 | 8.8 | 9.1 | 10.4 | 8.1 |
| Construction laborers ............................................................................... | 147 | 146 | 14.8 | 14.2 | 14.5 | 14.0 | ${ }^{(1)}$ | (') |
| Other handiers, equipment cleaners, heipers, and laborers ......................... | 366 | 357 | 7.9 | 7.8 | 7.4 | 7.8 | 10.0 | 7.6 |
| Farming, forestry, and fishing ........................................................................ | 218 | 223 | 5.1 | 5.3 | 4.7 | 4.6 | 6.8 | 8.5 |
| No previous work experience . | $\begin{aligned} & 712 \\ & 486 \\ & 123 \\ & 103 \end{aligned}$ | $\begin{aligned} & 756 \\ & 523 \\ & 133 \\ & 100 \end{aligned}$ | ---- | - | - | - | - | - |
| 16 to 19 years ...................... |  |  |  | - | - | - | - | - |
| 20 to 24 years ................................ |  |  |  | - | - | - | - | - |
| 25 years and over ................................................................................... |  |  |  | - | - | - | - | - |

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

| Industry | Thousands of persons <br> Total |  | Unemployment rates |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total |  | Men |  | Women |  |
|  | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. 1990 |
| Total, 16 years and over ........ | 6,352 | 6,837 | 5.1 | 5.4 | 4.6 | 5.1 | 5.7 | 5.8 |
| Nonagriculturat private wage and salary workers ............................................ | 4,763 | 5,122 | 5.1 | 5.4 | 4.6 | 5.2 | 5.6 | 5.7 |
| Mining | 43 | 34 | 5.6 | 4.5 | 5.8 | 3.8 | 4.8 | 9.2 |
| Construction .............................................................................................. | 507 | 547 | 7.8 | 8.6 | 7.8 | 8.6 | 7.4 | 8.5 |
| Manufacturing ............................................................................................. | 1,107 | 1,220 | 4.9 | 5.5 | 4.0 | 4.7 | 6.8 | 7.1 |
| Durable goods ........................................................................................ | 616 | 739 | 4.7 | 5.6 | 3.9 | 4.8 | 6.9 | 7.6 |
| Lumber and wood products | 40 | 46 | 5.1 | 5.9 | 5.9 | 5.2 | . 5 | 9.5 |
| Furniture and fixtures ......................................................................... | 27 | 35 | 4.1 | 4.9 | 2.9 | 3.8 | 7.2 | 7.2 |
| Stone, clay, and glass products | 33 | 28 | 4.7 | 3.9 | 4.0 | 3.6 | 7.5 | 4.6 |
| Primary metal industries. | 45 | 27 | 5.0 | 2.9 | 5.1 | 2.6 | 4.4 | 5.0 |
| Fabricated metal products | 80 | 107 | 5.8 | 7.7 | 4.3 | 6.2 | 9.8 | 12.3 |
| Machinery, except electrical ........................ | 102 | 126 | 3.7 | 4.9 | 2.8 | 4.6 | 6.7 | 5.9 |
| Electrical machinery, equipment, and supplies ......................................... | 99 | 128 | 4.8 | 5.8 | 3.8 | 5.1 | 6.3 | 6.8 |
| Transportation equipment ...................................................................... | 146 | 149 | 5.4 | 5.6 | 4.2 | 4.8 | 9.8 | 8.7 |
| Automobiles ............................. | 92 | 102 | 7.2 | 8.5 | 5.6 | 7.3 | 13.2 | 12.8 |
| Other transportation equipment | 54 | 47 | 3.7 | 3.3 | 2.9 | 2.6 | 6.7 | 5.5 |
| Professional and photographic equipment .............................................. | 21 | 34 | 3.3 | 4.7 | 4.3 | 2.4 | 2.0 | 7.7 |
| Other durable goods industries ............................................................... | 23 | 59 | 4.3 | 10.4 | 1.4 | 12.6 | 7.2 | 9.3 |
| Nondurable goods .................... | 491 | 481 | 5.3 | 5.3 | 4.3 | 4.4 | 6.7 | 6.5 |
| Food and kindred products .................................................................... | 127 | 125 | 6.4 | 6.2 | 5.8 | 5.8 | 7.7 | 6.9 |
| Textile mill products .............................................................................. | 34 | 35 | 4.5 | 4.7 | 2.7 | 3.5 | 6.6 | 6.1 |
| Apparel and other textile products | 115 | 106 | 9.1 | 8.7 | 9.0 | 9.7 | 9.1 | 8.4 |
| Paper and allied products ........ | 30 | 23 | 3.8 | 3.2 | 2.6 | 1.6 | 7.1 | 8.6 |
| Printing and publishing ............ | 63 | 79 | 3.3 | 4.4 | 3.0 | 4.2 | 3.7 | 4.6 |
| Chemicals and allied products ............... | 37 | 46 | 2.9 | 3.3 | 2.3 | 2.2 | 4.0 | 5.8 |
| Rubber and miscellaneous plastics products ........................................... | 62 | 46 | 7.0 | 5.7 | 5.9 | 4.8 | 9.1 | 7.5 |
| Other nondurable goods industries ............................................................. | 25 | 19 | 5.8 | 5.0 | 5.3 | 6.3 | 7.0 | 3.2 |
| Transportation and public utilities ................................................................ | 224 | 244 | 3.5 | 3.7 | 3.3 | 3.7 | 3.8 | 3.9 |
| Transportation ......................................................................................... | 172 | 185 | 4.5 | 4.9 | 4.6 | 4.9 | 4.3 | 4.9 |
| Communications and other public utilities .................................................. | 52 | 59 | 1.9 | 2.1 | 1.2 | 1.8 | 3.3 | 2.9 |
| Wholesale and retail trade ......................................................................... | 1,401 | 1,464 | 5.8 | 6.1 | 4.7 | 5.3 | 7.1 | 6.9 |
| Wholesale trade | 189 | 211 | 4.3 | 4.5 | 3.5 | 3.9 | 6.0 | 6.0 |
| Retail trade .............................................................................................. | 1,212 | 1,254 | 6.2 | 6.4 | 5.0 | 5.8 | 7.2 | 7.0 |
| Finance, insurance, and real estate ............................................................. | 185 | 188 | 2.5 | 2.6 | 2.0 | 2.0 | 2.7 | 2.9 |
| Service industries ...................................................................................... | 1,297 | 1,424 | 4.9 | 5.2 | 4.7 | 5.4 | 5.0 | 5.2 |
| Professional services .............................................................................. | 490 | 566 | 3.4 | 3.7 | 2.8 | 3.0 | 3.6 | 4.0 |
| Other service industries ........................................................................... | 807 | 858 | 6.7 | 7.1 | 6.1 | 7.1 | 7.2 | 7.2 |
| Agricultural wage and salary workers ............................................................. | 161 | 168 | 7.6 | 8.1 | 6.7 | 6.9 | 10.9 | 12.0 |
| Government, self-employed, and unpaid family workers ................................. | 716 | 792 | 2.5 | 2.8 | 2.2 | 2.5 | 2.9 | 3.1 |
| No previous work experience ....................................................................... | 712 | 756 | - | - | - | - | - | - |

A-14. Unemployed persons by reason for unemployment, sex, and race
(Numbers in thousands)

| Reason for unemployment | Total unemployed |  | Men, 20 years and over |  | Women, 20 years and over |  | Both sexes, 16 to 19 years |  | White |  | Black |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. <br> 1989 | Aug. $1990$ | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. $1990$ | Aug. <br> 1989 | Aug. <br> 1990 | Aug. 1989 | Aug. <br> 1990 |
| NUMBER OF UNEMPLOYED |  |  |  |  |  |  |  |  |  |  |  |  |
| Total unemployed | 6,352 | 6,837 | 2,564 | 2,910 | 2,648 | 2,791 | 1,140 | 1,136 | 4,659 | 5,022 | 1,497 | 1,557 |
| Job losers | 2,766 | 3,145 | 1,600 | 1,821 | 971 | 1,107 | 196 | 217 | 2,066 | 2,386 | 628 | 662 |
| On layoff ..................................................... | 736 | 824 | 414 | 436 | 282 | 349 | 39 | 39 | 606 | 697 | 114 | 113 |
| Other job losers ........................................... | 2,030 | 2,320 | 1,185 | 1,384 | 689 | 758 | 157 | 178 | 1,460 | 1,688 | 514 | 549 |
| Job leavers. | 1,122 | 1,078 | 385 | 425 | 504 | 489 | 233 | 164 | 924 | 830 | 167 | 208 |
| Reentrants. | 1,814 | 1,935 | 500 | 594 | 1,035 | 1,069 | 278 | 271 | 1,237 | 1,348 | 505 | 494 |
| New entrants .................................................. | 650 | 680 | 79 | 71 | 138 | 125 | 433 | 484 | 433 | 459 | 197 | 194 |
| 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 ... | 43.5 | 46.0 | 62.4 | 62.6 | 36.7 | 39.7 | 17.2 | 19.1 | 44.3 | 47.5 | 41.9 | 42.5 |
| On layoff ..................................................... | 11.6 | 12.1 | 16.2 | 15.0 | 10.7 | 12.5 | 3.4 | 3.4 | 13.0 | 13.9 | 7.6 | 7.3 |
| Other job losers ........................................... | 32.0 | 33.9 | 46.2 | 47.6 | 26.0 | 27.2 | 13.8 | 15.7 | 31.3 | 33.6 | 34.3 | 35.2 |
| Job leavers. | 17.7 | 15.8 | 15.0 | 14.6 | 19.0 | 17.5 | 20.4 | 14.4 | 19.8 | 16.5 | 11.1 | 13.3 |
| Reentrants ..................................................... | 28.6 | 28.3 | 19.5 | 20.4 | 39.1 | 38.3 | 24.4 | 23.9 | 26.5 | 26.8 | 33.8 | 31.7 |
| New entrants .................................................. | 10.2 | 9.9 | 3.1 | 2.4 | 5.2 | 4.5 | 38.0 | 42.6 | 9.3 | 9.1 | 13.2 | 12.5 |
| UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers ...................................................... | 2.2 | 2.5 | 2.5 | 2.8 | 1.9 | 2.1 | 2.1 | 2.6 | 1.9 | 2.2 | 4.6 | 4.9 |
| Job leavers | . 9 | . 9 | . 6 | . 7 | 1.0 | . 9 | 2.5 | 2.0 | . 9 | . 8 | 1.2 | 1.5 |
| Reentrants. | 1.4 | 1.5 | . 8 | . 9 | 2.0 | 2.0 | 3.0 | 3.3 | 1.1 | 1.2 | 3.7 | 3.6 |
| New entrants ...... | . 5 | . 5 | . 1 | . 1 | . 3 | . 2 | 4.7 | 5.9 | . 4 | . 4 | 1.4 | 1.4 |

## HOUSEHOLD DATA

NOT SEASONALLY ADJUSTED
A-15. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment
(Percent distribution)

| Reason, sex, and age | August 1990 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total unemployed |  | Duration of unemployment |  |  |  |  |
|  | Thousands of persons | Percent | Less than 5 weeks | 5 to 14 weeks | 15 weeks and over |  |  |
|  |  |  |  |  | Total | 15 to 26 weeks | 27 weeks and over |
| Total, 16 years and over ................................... | 6,837 | 100.0 | 47.2 | 32.1 | 20.7 | 9.9 | 10.8 |
| Job losers ........................................................... | 3,145 | 100.0 | 41.1 | 33.0 | 25.9 | 12.8 | 13.1 |
| On layoff ........................................................... | 824 | 100.0 | 52.2 | 32.6 | 15.2 | 9.0 | 6.2 |
| Other job losers | 2,320 | 100.0 | 37.2 | 33.1 | 29.7 | 14.1 | 15.6 |
| Job leavers ........................................................ | 1,078 | 100.0 | 56.8 | 25.4 | 17.8 | 9.3 | 8.5 |
| Reentrants ...................................................... | 1,935 | 100.0 | 51.8 | 30.3 | 18.0 | 8.0 | 9.9 |
| New entrants ........................................................ | 680 | 100.0 | 46.8 | 44.3 | 8.8 | 2.4 | 6.5 |
| Men, 20 years and over ................................... | 2,910 | 100.0 | 39.9 | 30.8 | 29.3 | 12.7 | 16.7 |
| Job losers ............................................................ | 1,821 | 100.0 | 36.6 | 32.4 | 31.0 | 14.3 | 16.7 |
| On layoff ........................................................... | 436 | 100.0 | 52.5 | 31.0 | 16.6 | 8.8 | 7.8 |
| Other job losers .................................................. | 1,384 | 100.0 | 31.6 | 32.8 | 35.6 | 16.0 | 19.6 |
| Job leavers .......................................................... | 425 | 100.0 | 45.9 | 30.8 | 23.2 | 9.7 | 13.5 |
| Reentrants ........................................................... | 594 | 100.0 | 46.0 | 24.9 | 29.1 | 10.6 | 18.5 |
| New entrants ........ | 71 | 100.0 | ${ }^{(1)}$ | (') | (') | ${ }^{(1)}$ | (') |
| Women, 20 years and over ............................... | 2,791 | 100.0 | 51.2 | 31.2 | 17.6 | 9.8 | 7.8 |
| Job losers ........................................................... | 1,107 | 100.0 | 42.8 | 36.0 | 21.2 | 11.4 | 9.8 |
| On layoff ............................................................ | 349 | 100.0 | 49.4 | 35.0 | 15.6 | 10.3 | 5.3 |
| Other job losers .................................................. | 758 | 100.0 | 39.7 | 36.4 | 23.8 | 12.0 | 11.9 |
| Job leavers ........................................................ | 489 | 100.0 | 60.3 | 23.8 | 16.0 | 10.8 | 5.2 |
| Reentrants .......................................................... | 1,069 | 100.0 | 55.2 | 29.6 | 15.3 | 8.4 | 6.9 |
| New entrants ........................................................ | 125 | 100.0 | 56.6 | 30.8 | 12.6 | 3.9 | 8.8 |
| Both sexes, 16 to 19 years ............................... | 1,136 | 100.0 | 56.0 | 37.9 | 6.1 | 2.8 | 3.3 |
| Job losers ............................................................ | 217 | 100.0 | 70.8 | 22.3 | 6.9 | 6.9 | - |
| On layoff ........................................................... | 39 | 100.0 | (') | (') | (') | (') | (') |
| Other job losers ................................................. | 178 | 100.0 | 69.9 | 21.0 | 9.1 | 8.4 | . 7 |
| Job leavers .......................................................... | 164 | 100.0 | 74.3 | 16.5 | 9.2 | 4.0 | 5.2 |
| Reentrants .......................................................... | 271 | 100.0 | 50.9 | 44.7 | 4.4 | 1.0 | 3.3 |
| New entrants ........................................................ | 484 | 100.0 | 46.1 | 48.3 | 5.6 | 1.5 | 4.1 |

${ }^{1}$ Data not shown where base is less than 75,000 .

A-16. Unemployed persons by duration of unemployment

| Duration of unemployment | Total |  |  |  | Full-time workers |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands of persons |  | Percent distribution |  | Thousands of persons |  | Percent distribution |  |
|  | Aug. $1989$ | Aug. $1990$ | Aug. 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. $1990$ | Aug. <br> 1989 | Aug. $1990$ |
| Total, 16 years and over .................................. | 6,352 | 6,837 | 100.0 | 100.0 | 5,161 | 5,477 | 100.0 | 100.0 |
| Less than 5 weeks ............................................. | 3,022 | 3,225 | 47.6 | 47.2 | 2,248 | 2,410 | 43.6 | 44.0 |
| 5 to 14 weeks ................................................... | 2,152 | 2,197 | 33.9 | 32.1 | 1,816 | 1,780 | 35.2 | 32.5 |
| 5 to 10 weeks .................................................. | 1,599 | 1,563 | 25.2 | 22.9 | 1,324 | 1,228 | 25.7 | 22.4 |
| 11 to 14 weeks .............................................. | 554 | 634 | 8.7 | 9.3 | 491 | 552 | 9.5 | 10.1 |
| 15 weeks and over ............................................. | 1,178 | 1,414 | 18.5 | 20.7 | 1,097 | 1,288 | 21.3 | 23.5 |
| 15 to 26 weeks ................................................ | 612 | 674 | 9.6 | 9.9 | 565 | 617 | 10.9 | 11.3 |
| 27 weeks and over .......................................... | 566 | 741 | 8.9 | 10.8 | 532 | 671 | 10.3 | 12.2 |
| 27 to 51 weeks ............................................. | 255 | 349 | 4.0 | 5.1 | 240 | 321 | 4.7 | 5.9 |
| 52 weeks and over ........................................ | 311 | 392 | 4.9 | 5.7 | 292 | 350 | 5.7 | 6.4 |
| Average (mean) duration, in weeks ...................... | 11.3 | 12.1 | - | - | 12.5 | 13.2 | - | - |
| Median duration, in weeks .................................. | 5.0 | 5.2 | - | - | 5.9 | 6.1 | - | - |

A-17. Unemployed persons by sex, age, race, marital status, and duration of unemployment

| Sex, age, race, and marital status | Thousands of persons |  |  |  |  | Weeks |  | Percent of unemployed in group |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Less than 5 weeks | 5 to 14 weeks | 15 to 26 weeks | 27 weeks and over | Average (mean) duration | Median duration | Unemployed less than 5 weeks |  | Unemployed 15 weeks and over |  |
|  | August 1990 |  |  |  |  |  |  | Aug. <br> 1989 | Aug. $1990$ | Aug. $1989$ | Aug. <br> 1990 |
| Total, 16 years and over | 6,837 | 3,225 | 2,197 | 674 | 741 | 12.1 | 5.2 | 47.6 | 47.2 | 18.5 | 20.7 |
| 16 to 19 years ... | 1,136 | 636 | 431 | 32 | 37 | 7.0 | 4.0 | 55.4 | 56.0 | 5.1 | 6.1 |
| 20 to 24 years | 1,193 | 638 | 391 | 91 | 72 | 8.6 | 4.2 | 52.9 | 53.5 | 12.5 | 13.6 |
| 25 to 34 years | 1,991 | 963 | 613 | 217 | 199 | 11.6 | 4.9 | 47.6 | 48.4 | 20.5 | 20.9 |
| 35 to 44 years .................................................... | 1,329 | 519 | 430 | 189 | 191 | 15.1 | 7.1 | 43.3 | 39.1 | 24.9 | 28.6 |
| 45 to 54 years ................................................... | 691 | 266 | 193 | 98 | 135 | 18.6 | 8.7 | 39.2 | 38.4 | 30.6 | 33.7 |
| 55 to 64 years | 369 | 152 | 105 | 37 | 75 | 17.3 | 6.7 | 33.5 | 41.3 | 30.4 | 30.2 |
| 65 years and over ................................................. | 127 | 50 | 35 | 11 | 32 | 19.7 | 6.7 | 43.4 | 39.2 | 21.4 | 33.4 |
| Men, 16 years and over | 3,521 | 1,491 | 1,130 | 387 | 513 | 14.5 | 6.5 | 42.9 | 42.3 | 22.6 | 25.6 |
| 16 to 19 years ..................................................... | 611 | 331 | 233 | 18 | 28 | 7.6 | 4.1 | 53.1 | 54.2 | 4.9 | 7.7 |
| 20 to 24 years ...................................................... | 579 | 288 | 180 | 55 | 57 | 10.8 | 4.6 | 46.5 | 49.7 | 16.4 | 19.3 |
| 25 to 34 years ...................................................... | 1,064 | 450 | 344 | 139 | 132 | 13.4 | 6.3 | 44.3 | 42.3 | 24.5 | 25.4 |
| 35 to 44 years | 630 | 212 | 193 | 95 | 129 | 19.1 | 9.0 | 35.7 | 33.7 | 30.3 | 35.6 |
| 45 to 54 years ...................................................... | 345 | 108 | 99 | 49 | 90 | 22.6 | 10.6 | 30.7 | 31.2 | 39.6 | 40.2 |
| 55 to 64 years... | 212 | 71 | 59 | 23 | 58 | 20.8 | 9.5 | 31.6 | 33.7 | 40.5 | 38.5 |
| 65 years and over ........................................... | 80 | 31 | 23 | 7 | 19 | 19.1 | 6.6 | (') | 38.2 | (') | 32.9 |
| Women, 16 years and over | 3,316 | 1,734 | 1,068 | 287 | 227 | 9.7 | 4.3 | 52.2 | 52.3 | 14.5 | 15.5 |
| 16 to 19 years ... | 525 | 305 | 198 | 13 | 9 | 6.2 | 3.9 | 58.0 | 58.1 | 5.4 | 4.2 |
| 20 to 24 years | 614 | 351 | 212 | 36 | 15 | 6.5 | 3.9 | 60.4 | 57.2 | 8.0 | 8.3 |
| 25 to 34 years | 927 | 513 | 269 | 78 | 67 | 9.6 | 4.1 | 50.3 | 55.4 | 17.2 | 15.6 |
| 35 to 44 years | 700 | 307 | 237 | 94 | 62 | 11.4 | 5.8 | 50.1 | 43.9 | 20.0 | 22.3 |
| 45 to 54 years | 346 | 158 | 94 | 49 | 45 | 14.6 | 6.2 | 47.3 | 45.6 | 22.0 | 27.2 |
| 55 to 64 years ...................................................... | 157 | 81 | 46 | 13 | 17 | 12.6 | 4.4 | 36.1 | 51.4 | 16.5 | 19.2 |
| 65 years and over .............. | 47 | 19 | 12 | 4 | 12 | (') | (') | (') | (') | (') | (') |
| White, 16 years and over.. | 5,022 | 2,492 | 1,554 | 490 | 485 | 11.4 | 4.6 | 49.4 | 49.6 | 17.8 | 19.4 |
| Men ..... | 2,625 | 1,175 | 820 | 284 | 346 | 13.6 | 5.8 | 45.0 | 44.8 | 22.2 | 24.0 |
| Women | 2,396 | 1,317 | 734 | 206 | 140 | 9.1 | 4.1 | 53.9 | 55.0 | 13.3 | 14.4 |
| Black, 16 years and over.. | 1,557 | 604 | 575 | 157 | 222 | 14.2 | 7.0 | 41.9 | 38.8 | 21.0 | 24.3 |
| Men . | 771 | 260 | 279 | 86 | 146 | 17.1 | 8.4 | 35.6 | 33.8 | 23.6 | 30.1 |
| Women | 786 | 344 | 296 | 71 | 75 | 11.3 | 5.7 | 47.7 | 43.7 | 18.6 | 18.6 |
| Men, 16 years and over: Marned, spouse present | 1,298 | 513 | 391 | 168 | 227 | 16.2 | 7.4 | 37.8 | 39.5 | 31.1 | 30.4 |
| Widowed, divorced, or separated | 452 | 153 | 157 | 60 | 83 | 17.4 | 8.2 | 37.0 | 33.8 | 31.0 | 31.6 |
| Single (never married) ........................................... | 1,771 | 825 | 583 | 159 | 204 | 12.5 | 5.4 | 48.2 | 46.6 | 14.3 | 20.5 |
| Women, 16 years and over: Marnied, spouse present ....... |  |  |  |  |  |  |  |  |  |  |  |
| Marned, spouse present ........ | 1,347 | 725 | 412 | 126 | 84 | 9.5 | 4.2 | 56.9 | 53.8 | 13.6 | 15.6 |
| Widowed, divorced, or separated | 709 | 352 | 208 | 69 | 80 | 12.3 | 4.6 | 42.4 | 49.6 | 19.0 | 21.0 |
| Single (never married) ........................................... | 1,260 | 658 | 447 | 92 | 64 | 8.4 | 4.3 | 52.5 | 52.2 | 12.9 | 12.3 |

[^6]
## HOUSEHOLD DATA

NOT SEASONALLY ADJUSTED
A-18. Unemployed persons by occupation, industry, and duration of unemployment

| Occupation and industry | Thousands of persons |  |  |  |  | Weeks |  | Percent of unemployed in group |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Less than 5 weeks | 5 to 14 weeks | 15 to 26 weeks | 27 weeks and over | Average (mean) duration | Median duration | Unem less 5 w | loyed than eks | Unem 15 and | loyed eeks over |
|  | August 1990 |  |  |  |  |  |  | Aug. 1989 | Aug. $1990$ | Aug. <br> 1989 | Aug. <br> 1990 |
| OCCUPATION |  |  |  |  |  |  |  |  |  |  |  |
| Managerial and professional specialty .. | 807 | 331 | 275 | 96 | 105 | 13.5 | 6.5 | 39.4 | 41.0 | 24.1 | 24.9 |
| Technical, sales, and administrative support ..................... | 1,681 | 827 | 522 | 177 | 156 | 11.2 | 4.7 | 50.1 | 49.2 | 16.7 | 19.8 |
| Service occupations ......................................................... | 1,105 | 575 | 327 | 88 | 115 | 10.9 | 4.3 | 51.3 | 52.0 | 17.7 | 18.4 |
| Precision production, craft, and repair ................................. | 772 | 357 | 198 | 115 | 103 | 14.1 | 5.4 | 43.6 | 46.2 | 24.0 | 28.2 |
| Operators, fabricators, and laborers | 1,467 | 641 | 481 | 156 | 189 | 13.9 | 6.2 | 44.9 | 43.7 | 21.6 | 23.5 |
| Farming, forestry, and fishing ............................................ | 223 | 117 | 72 | 20 | 14 | 9.9 | 4.3 | 56.4 | 52.5 | 17.0 | 15.2 |
| INDUSTRY ${ }^{\prime}$ |  |  |  |  |  |  |  |  |  |  |  |
| Agriculture ........................................................................ | 168 | 93 | 42 | 18 | 15 | 10.6 | 4.1 | 57.1 | 55.4 | 13.7 | 19.6 |
| Construction .................................................................... | 564 | 274 | 163 | 63 | 64 | 12.2 | 5.0 | 48.7 | 48.6 | 22.7 | 22.5 |
| Manufacturing ................................................................... | 1,222 | 501 | 386 | 174 | 162 | 13.9 | 6.7 | 40.6 | 41.0 | 27.5 | 27.4 |
| Durable goods ............................................................... | 742 | 303 | 231 | 112 | 96 | 14.1 | 6.5 | 36.1 | 40.8 | 27.5 | 27.9 |
| Nondurable goods ......................................................... | 480 | 198 | 155 | 62 | 66 | 13.4 | 7.0 | 46.2 | 41.2 | 27.4 | 26.7 |
| Transportation and public utilities ...................................... | 273 | 89 | 103 | 43 | 39 | 16.2 | 8.2 | 40.2 | 32.6 | 28.1 | 30.0 |
| Wholesale and retail trade ................................................ | 1,471 | 718 | 475 | 128 | 151 | 11.3 | 4.8 | 47.6 | 48.8 | 15.5 | 18.9 |
| Finance and service industries | 1,929 | 942 | 598 | 199 | 188 | 11.7 | 5.1 | 51.0 | 48.8 | 15.9 | 20.1 |
| Public administration ........................................................ | 206 | 104 | 63 | 13 | 26 | 13.3 | 4.4 | 42.4 | 50.5 | 32.9 | 18.9 |
| No previous work experience ........................................... | 756 | 368 | 317 | 21 | 50 | 9.5 | 4.8 | 50.3 | 48.7 | 8.7 | 9.4 |

[^7]A-19. Unemployed jobseekers by sex, age, race, and jobsearch methods used

| Sex, age, and race | August 1990 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands of persons |  | Methods used as a percent of total jobseekers |  |  |  |  |  | Average number of methods used |
|  | 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 ........................... | 6,837 | 5,828 | 22.2 | 7.8 | 72.9 | 41.8 | 20.0 | 4.8 | 1.69 |
| 16 to 19 years ............................................ | 1,136 | 1,082 | 10.3 | 2.5 | 82.9 | 30.6 | 17.6 | 1.6 | 1.45 |
| 20 to 24 years ............................................ | 1,193 | 1,074 | 25.6 | 7.7 | 72.1 | 42.4 | 17.6 | 4.6 | 1.70 |
| 25 to 34 years ............................................ | 1,991 | 1,674 | 24.2 | 9.6 | 70.9 | 46.7 | 21.0 | 5.0 | 1.77 |
| 35 to 44 years ............................................ | 1,329 | 1,096 | 24.9 | 9.5 | 69.8 | 43.4 | 20.9 | 6.1 | 1.75 |
| 45 to 54 years ............................................. | 691 | 544 | 27.2 | 8.5 | 70.1 | 44.7 | 23.1 | 5.8 | 1.79 |
| 55 to 64 years ............................................ | 369 | 259 | 25.6 | 11.3 | 71.5 | 41.7 | 24.3 | 6.0 | 1.81 |
| 65 years and over ..................................... | 127 | 99 | 17.0 | 4.4 | 58.1 | 38.9 | 18.2 | 15.0 | 1.52 |
| Men, 16 years and over ........................... | 3,521 | 2,984 | 22.5 | 7.6 | 72.7 | 40.5 | 22.0 | 5.3 | 1.71 |
| 16 to 19 years ........................................... | 611 | 576 | 8.4 | 1.7 | 84.6 | 28.4 | 17.5 | 1.5 | 1.42 |
| 20 to 24 years ............................................ | 579 | 512 | 23.0 | 7.7 | 76.7 | 39.3 | 23.3 | 5.1 | 1.75 |
| 25 to 34 years ............................................ | 1,064 | 874 | 26.3 | 9.9 | 68.8 | 46.4 | 22.4 | 4.9 | 1.79 |
| 35 to 44 years ............................................ | 630 | 533 | 28.5 | 8.9 | 67.7 | 43.1 | 22.8 | 6.8 | 1.78 |
| 45 to 54 years ...... | 345 | 275 | 27.1 | 6.7 | 67.1 | 45.4 | 30.3 | 7.7 | 1.84 |
| 55 to 64 years ............................................ | 212 | 151 | 24.7 | 15.7 | 71.9 | 39.0 | 16.2 | 7.9 | 1.75 |
| 65 years and over ....................................... | 80 | 63 | (') | (') | (') | (1) | (') | (') | (') |
| Women, 16 years and over ....................... | 3,316 | 2,844 | 21.9 | 8.0 | 73.1 | 43.1 | 17.9 | 4.3 | 1.68 |
| 16 to 19 years ............................................ | 525 | 506 | 12.5 | 3.4 | 80.9 | 33.1 | 17.7 | 1.7 | 1.49 |
| 20 to 24 years ........................................... | 614 | 563 | 28.0 | 7.6 | 67.9 | 45.2 | 12.4 | 4.2 | 1.65 |
| 25 to 34 years ................................... | 927 | 800 | 21.8 | 9.3 | 73.3 | 47.0 | 19.4 | 5.0 | 1.76 |
| 35 to 44 years. | 700 | 563 | 21.4 | 10.0 | 71.7 | 43.7 | 19.1 | 5.5 | 1.71 |
| 45 to 54 years ............................................ | 346 | 269 | 27.2 | 10.3 | 73.1 | 44.0 | 15.6 | 3.8 | 1.74 |
| 55 to 64 years ........................................... | 157 | 109 | 27.0 | 5.4 | 71.0 | 45.5 | 35.5 | 3.5 | 1.88 |
| 65 years and over ...................................... | 47 | 35 | (1) | (') | (') | (') | (') | (') | () |
| White, 16 years and over .......................... | 5,022 | 4,158 | 21.5 | 8.2 | 74.8 | 43.0 | 20.0 | 5.1 | 1.72 |
| Men ........................................................... | 2,625 | 2,170 | 22.7 | 8.0 | 73.8 | 42.1 | 21.5 | 5.6 | 1.74 |
| Women | 2,396 | 1,988 | 20.2 | 8.4 | 75.9 | 44.0 | 18.3 | 4.5 | 1.71 |
| Black, 16 years and over ......................... | 1,557 | 1,433 | 24.1 | 6.5 | 69.3 | 37.0 | 19.3 | 3.6 | 1.60 |
| Men ............................................................ | 771 | 697 | 20.9 | 6.1 | 70.0 | 33.4 | 23.0 | 3.7 | 1.57 |
| Women ...................................................... | 786 | 735 | 27.1 | 6.9 | 68.7 | 40.4 | 15.7 | 3.5 | 1.62 |

${ }^{1}$ Data not shown where base is less than 75,000.
NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within

30 days, groups for whom jobseeking information is not collected. The percent using each method will always total more than 100 because many jobseekers use more than one method.

A-20. Unemployed jobseekers by sex, reason for unemployment, and jobsearch methods used

| Sex and reason | August 1990 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands of persons |  | Methods used as a percent of total jobseekers |  |  |  |  |  | Average number of methods used |
|  | Total unemployed | Total jobseekers | Public employment agency | Private employment agency | Employer directly | $\begin{gathered} \text { Placed } \\ \text { or } \\ \text { answered } \\ \text { ads } \end{gathered}$ | $\begin{aligned} & \text { Friends } \\ & \text { or } \\ & \text { relatives } \end{aligned}$ | Other |  |
| Total, 16 years and over ................... | 6,837 | 5,828 | 22.2 | 7.8 | 72.9 | 41.8 | 20.0 | 4.8 | 1.69 |
| Job losers' .................................................... | 3,145 | 2,288 | 29.4 | 8.3 | 74.0 | 43.5 | 23.6 | 4.1 | 1.83 |
| Job leavers ............................................... | 1,078 | 1,029 | 19.5 | 7.4 | 75.4 | 44.7 | 16.0 | 3.5 | 1.67 |
| Reentrants ............................................... | 1,935 | 1,843 | 18.3 | 8.6 | 69.1 | 42.6 | 17.5 | 6.3 | 1.62 |
| New entrants ....................................................................... | 680 | 669 | 12.5 | 4.4 | 75.7 | 28.9 | 20.4 | 5.1 | 1.47 |
| Men, 16 years and over.. | 3,521 | 2,984 | 22.5 | 7.6 | 72.7 | 40.5 | 22.0 | 5.3 | 1.71 |
| Job losers' ............................................... | 1,964 | 1,478 | 27.6 | 8.1 | 73.3 | 42.9 | 24.1 | 5.2 | 1.81 |
| Job leavers ............................................ | 513 | 494 | 14.4 | 7.7 | 77.2 | 40.0 | 17.3 | 3.3 | 1.60 |
| Reentrants ...................................... | 731 | 705 | 23.2 | 8.5 | 66.0 | 40.1 | 21.4 | 7.2 | 1.66 |
| New entrants ............................................ | 313 | 307 | 9.1 | 3.3 | 77.8 | 30.6 | 20.3 | 4.3 | 1.45 |
| Women, 16 years and over ..................... | 3,316 | 2,844 | 21.9 | 8.0 | 73.1 | 43.1 | 17.9 | 4.3 | 1.68 |
| Job losers' ................................................. | 1,181 | 809 | 32.7 | 8.6 | 75.2 | 44.8 | 22.8 | 1.9 | 1.86 |
| Job leavers .............................................. | 564 | 535 | 24.3 | 7.1 | 73.7 | 49.0 | 14.8 | 3.8 | 1.73 |
| Reentrants ............................................... | 1,203 | 1,138 | 15.2 | 8.7 | 71.0 | 44.1 | 15.2 | 5.7 | 1.60 |
| New entrants ............................................ | 368 | 362 | 15.3 | 5.4 | 74.0 | 27.6 | 20.5 | 5.8 | 1.49 |

Data on the number of jobseekers and the jobsearch methods used exclude persons on layoff.
NOTE: The jobseeker total is less than the total unemployed because it does not include persons on layoff or waiting to begin a new job within

30 days, groups for whom jobseeking information is not collected. The percent using each method will always total more than 100 because many jobseekers use more than one method.

## HOUSEHOLD DATA

NOT SEASONALLY ADJUSTED
A-21. Employed civilians in agriculture and nonagricultural industries by age and sex
(In thousands)

| Industry and age | Total |  | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | Aug. $1990$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | Aug. <br> 1990 | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1990 \end{aligned}$ |
| All industries | 119,092 | 119,174 | 65,912 | 65,604 | 53,180 | 53,570 |
| 16 to 19 years | 8,137 | 7,129 | 4,308 | 3,742 | 3,828 | 3,388 |
| 16 to 17 years .................................................. | 3,261 | 2,787 | 1,789 | 1,477 | 1,472 | 1,310 |
| 18 to 19 years ................................................... | 4,875 | 4,342 | 2,519 | 2,264 | 2,356 | 2,077 |
| 20 to 24 years ................................................ | 13,631 | 13,167 | 7,142 | 6,970 | 6,489 | 6,197 |
| 25 to 54 years ................................................... | 82,671 | 84,023 | 46,002 | 46,337 | 36,670 | 37,686 |
| 25 to 34 years .......... | 34,061 | 33,768 | 19,202 | 18,841 | 14,859 | 14,927 |
| 35 to 44 years ........... | 29,390 | 30,460 | 16,111 | 16,629 | 13,280 | 13,831 |
| 45 to 54 years .............................................. | 19,220 | 19,795 | 10,689 | 10,868 | 8,531 | 8,927 |
| 55 to 64 years ..................................................... | 11,372 | 11,480 | 6,516 | 6,589 | 4,857 | 4,891 |
| 55 to 59 years | 6,780 | 6,858 | 3,895 | 3,896 | 2,885 | 2,962 |
| 60 to 64 years ................................................ | 4,593 | 4,622 | 2,621 | 2,693 | 1,972 | 1,929 |
| 65 years and over ............................................... | 3,281 | 3,375 | 1,944 | 1,966 | 1,336 | 1,409 |
| Agriculture ...................................................... | 3,633 | 3,473 | 2,891 | 2,743 | 741 | 729 |
| 16 to 19 years .................................................... | 422 | 364 | 362 | 308 | 59 | 55 |
| 16 to 17 years ................................................. | 240 | 177 | 218 | 153 | 21 | 24 |
| 18 to 19 years ................. | 182 | 187 | 144 | 155 | 38 | 32 |
| 20 to 24 years .................................................... | 452 | 419 | 378 | 344 | 74 | 74 |
| 25 to 54 years ..................................................... | 1,985 | 1,957 | 1,500 | 1,476 | 485 | 481 |
| 25 to 34 years ................................................... | 861 | 823 | 683 | 635 | 178 | 187 |
| 35 to 44 years. | 664 | 691 | 489 | 509 | 175 | 182 |
| 45 to 54 years ................................................... | 460 | 443 | 327 | 331 | 133 | 112 |
| 55 to 64 years ..................................................... | 492 | 433 | 401 | 339 | 92 | 93 |
| 55 to 59 years ................................................. | 260 | 238 | 205 | 179 | 54 | 59 |
| 60 to 64 years .................................................... | 233 | 195 | 195 | 161 | 38 | 34 |
| 65 years and over .............................................. | 282 | 301 | 251 | 276 | 31 | 25 |
| Nonagricultural industries ................................. | 115,460 | 115,702 | 63,020 | 62,861 | 52,439 | 52,841 |
| 16 to 19 years ..................................................... | 7,715 | 6,766 | 3,946 | 3,433 | 3,769 | 3,332 |
| 16 to 17 years .................................................. | 3,022 | 2,610 | 1,571 | 1,324 | 1,451 | 1,287 |
| 18 to 19 years .................................................. | 4,693 | 4,155 | 2,375 | 2,110 | 2,318 | 2,046 |
| 20 to 24 years .................................................... | 13,179 | 12,748 | 6,764 | 6,626 | 6,416 | 6,123 |
| 25 to 54 years ..................................................... | 80,686 | 82,067 | 44,502 | 44,862 | 36,184 | 37,205 |
| 25 to 34 years .................................................. | 33,199 | 32,945 | 18.519 | 18,206 | 14,681 | 14,740 |
| 35 to 44 years ................................................. | 28,727 | 29,769 | 15,622 | 16,120 | 13,105 | 13,649 |
| 45 to 54 years .................................................. | 18,760 | 19,352 | 10,362 | 10,537 | 8,399 | 8,816 |
| 55 to 64 years ..................................................... | 10,880 | 11,048 | 6,115 | 6,250 | 4,765 | 4,798 |
| 55 to 59 years .................................................. | 6,520 | 6,620 | 3,690 | 3,717 | 2,831 | 2,903 |
| 60 to 64 years ................................................... | 4,360 | 4,427 | 2,425 | 2,532 | 1,934 | 1,895 |
| 65 years and over ................................................. | 2,999 | 3,074 | 1,693 | 1,690 | 1,306 | 1,384 |

## HOUSEHOLD DATA

## NOT SEASONALLY ADJUSTED

## A-22. Employed civilians by occupation, sex, and age

(In thousands)

| Occupation | Total |  | Men |  |  |  | Women |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 16 years and over |  | 16 years and over |  | 20 years and over |  | 16 years and over |  | 20 years and over |  |
|  | Aug. 1989 | Aug. 1990 | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. 1990 | Aug. <br> 1989 | Aug. 1990 |
| Total | 119,092 | 119,174 | 65,912 | 65,604 | 61,603 | 61,862 | 53,180 | 53,570 | 49,352 | 50,183 |
| Managerial and professional specialty | 29,909 | 30,505 | 16,557 | 16,589 | 16,459 | 16,510 | 13,352 | 13,916 | 13,193 | 13,777 |
| Executive, administrative, and managerial | 15,024 | 15,112 | 9,084 | 9,073 | 9,038 | 9,033 | 5,941 | 6,039 | 5,859 | 5,972 |
| Officials and administrators, public administration | 625 | 610 | 360 | 355 | 360 | 354 | 265 | 256 | 263 | 256 |
| Other executive, administrative, and managerial | 10,622 | 10,690 | 6,800 | 6,819 | 6,775 | 6,787 | 3,822 | 3,870 | 3,753 | 3,816 |
| Management-related occupations ................ | 3,777 | 3,812 | 1,923 | 1,898 | 1,903 | 1,893 | 1,854 | 1,913 | 1,842 | 1,900 |
| Professional specialty | 14,885 | 15,393 | 7,473 | 7,516 | 7,421 | 7,477 | 7,412 | 7,877 | 7,334 | 7,806 |
| Engineers | 1,770 | 1,914 | 1,624 | 1,765 | 1,623 | 1,766 | 146 | 149 | 145 | 146 |
| Mathematical and computer scientists | 856 | 821 | 563 | 481 | 562 | 481 | 293 | 340 | 293 | 340 |
| Natural scientists ............ | 400 | 405 | 280 | 316 | 277 | 316 | 121 | 89 | 121 | 89 |
| Health diagnosing occupations | 864 | 867 | 724 | 727 | 724 | 727 | 140 | 140 | 140 | 141 |
| Health assessment and treating occupations | 2,209 | 2,375 | 354 | 325 | 353 | 325 | 1,855 | 2,049 | 1,849 | 2,049 |
| Teachers, college and university ............ | 589 | 607 | 357 | 393 | 358 | 392 | 232 | 214 | 232 | 214 |
| Teachers, except college and university | 3,300 | 3,466 | 856 | 823 | 841 | 817 | 2,443 | 2,643 | 2,424 | 2,627 |
| Lawyers and judges ......... | 798 | 759 | 602 | 606 | 602 | 606 | 196 | 152 | 196 | 151 |
| Other professional specialty occupations .................................. | 4,100 | 4,180 | 2,114 | 2,080 | 2,082 | 2,046 | 1,986 | 2,100 | 1,935 | 2,048 |
| Technical, sales, and administrative support | 36,679 | 36,244 | 12,953 | 12,805 | 12,106 | 12,126 | 23,726 | 23,439 | 21,755 | 21,773 |
| Technicians and related support. | 3,735 | 3,762 | 2,002 | 1,917 | 1,936 | 1,891 | 1,733 | 1,845 | 1,711 | 1,830 |
| Health technologists and technicians | 1,267 | 1,268 | 263 | 195 | 258 | 190 | 1,004 | 1,073 | 1,000 | 1,069 |
| Engineering and science technicians | 1,195 | 1,195 | 940 | 941 | 906 | 929 | 255 | 254 | 245 | 246 |
| Technicians, except health, engineering, and science | 1,272 | 1,299 | 799 | 781 | 772 | 773 | 474 | 518 | 466 | 515 |
| Sales occupations | 14,387 | 14,021 | 7,279 | 7,127 | 6,791 | 6,706 | 7,108 | 6,894 | 5,952 | 5,873 |
| Supervisors and proprietors | 3,967 | 3,741 | 2,611 | 2,426 | 2,569 | 2,411 | 1,356 | 1,314 | 1,324 | 1,295 |
| Sales representatives, finance and business services | 2,434 | 2,431 | 1,342 | 1,411 | 1,320 | 1,399 | 1,092 | 1,021 | 1,040 | 992 |
| Sales representatives, commodities, except retail | 1,594 | 1,647 | 1,256 | 1,287 | 1,243 | 1,277 | 339 | 360 | 329 | 353 |
| Sales workers, retail and personal services | 6,312 | 6,100 | 2,048 | 1,971 | 1,638 | 1,586 | 4,264 | 4,129 | 3,209 | 3,183 |
| Sales-related occupations ................ | 80 | 102 | 23 | 33 | 21 | 34 | 57 | 69 | 50 | 50 |
| Administrative support, including clerical | 18,557 | 18,461 | 3,673 | 3,760 | 3,379 | 3,529 | 14,884 | 14,700 | 14,092 | 14,070 |
| Supervisors | 737 | 747 | 297 | 319 | 291 | 313 | 440 | 428 | 440 | 425 |
| Computer equipment operators | 883 | 848 | 298 | 292 | 285 | 279 | 585 | 557 | 553 | 524 |
| Secretaries, stenographers, and typists | 4,673 | 4,603 | 61 | 67 | 57 | 64 | 4,612 | 4,536 | 4,427 | 4,364 |
| Financial records processing. | 2,431 | 2,310 | 222 | 219 | 210 | 210 | 2,209 | 2,092 | 2,154 | 2,046 |
| Mail and message distributing. | 949 | 1,008 | 618 | 645 | 589 | 624 | 331 | 363 | 312 | 360 |
| Other administrative support, including clerical | 8,884 | 8,944 | 2,177 | 2,219 | 1,947 | 2,038 | 6,707 | 6,724 | 6,207 | 6,351 |
| Service occupations | 16,052 | 16,222 | 6,392 | 6,537 | 5,196 | 5,474 | 9,660 | 9,684 | 8,340 | 8,443 |
| Private household | 925 | 824 | 37 | 32 | 26 | 22 | 888 | 791 | 733 | 649 |
| Protective service | 2,146 | 2,145 | 1,759 | 1,791 | 1,658 | 1,705 | 387 | 354 | 302 | 297 |
| Service, except private household and protective | 12,981 | 13,253 | 4,595 | 4,714 | 3,513 | 3,747 | 8,386 | 8,539 | 7,305 | 7.497 |
| Food service | 5,390 | 5,599 | 2,165 | 2,238 | 1,364 | 1,567 | 3,225 | 3,360 | 2,526 | 2,625 |
| Health service | 2,057 | 2,135 | 187 | 218 | 166 | 201 | 1,869 | 1,917 | 1,754 | 1,818 |
| Cleaning and building service | 3,200 | 3,144 | 1,810 | 1,797 | 1,623 | 1,627 | 1,390 | 1,346 | 1,296 | 1,283 |
| Personal service | 2,334 | 2,376 | 434 | 460 | 360 | 352 | 1,901 | 1,916 | 1,728 | 1,771 |
| Precision production, craft, and repair | 14,002 | 13,859 | 12,818 | 12,675 | 12,418 | 12,332 | 1,184 | 1,184 | 1,128 | 1,154 |
| Mechanics and repairers | 4,497 | 4,492 | 4,344 | 4,333 | 4,245 | 4,244 | 153 | 159 | 148 | 158 |
| Construction trades | 5,360 | 5,302 | 5,251 | 5,192 | 5,015 | 4,994 | 108 | 110 | 102 | 105 |
| Other precision production, craft, and repair .. | 4,145 | 4,065 | 3,223 | 3,150 | 3,158 | 3,094 | 923 | 915 | 878 | 891 |
| Operators, fabricators, and laborers. | 18,350 | 18,351 | 13,741 | 13,671 | 12,479 | 12,525 | 4,609 | 4,680 | 4,365 | 4,441 |
| Machine operators, assemblers, and inspectors | 8,307 | 8,424 | 4,928 | 5,016 | 4,736 | 4,788 | 3,379 | 3,408 | 3,259 | 3,295 |
| Manufacturing industries | 6,851 | 6,877 | 3,999 | 4,054 | 3,866 | 3,873 | 2,852 | 2,823 | 2,752 | 2,744 |
| Durable goods | 3,691 | 3,738 | 2,493 | 2,607 | 2,404 | 2,500 | 1,199 | 1,131 | 1,166 | 1,114 |
| Nondurable goods | 3,159 | 3,139 | 1,506 | 1,447 | 1,461 | 1,373 | 1,653 | 1,692 | 1,586 | 1,630 |
| Nonmanufacturing industries | 1,456 | 1,546 | 929 | 962 | 870 | 915 | 527 | 585 | 507 | 551 |
| Transportation and material moving occupations | 4,926 | 4,821 | 4,529 | 4,413 | 4,361 | 4,314 | 397 | 408 | 382 | 401 |
| Motor vehicle operators | 3,631 | 3,537 | 3,288 | 3,190 | 3,142 | 3,112 | 342 | 347 | 331 | 340 |
| Other transportation and material moving occupations ................ | 1,295 | 1,283 | 1,241 | 1,223 | 1,219 | 1,202 | 55 | 61 | 51 | 61 |
| Handlers, equipment cleaners, helpers, and laborers . | 5,116 | 5,107 | 4,283 | 4,243 | 3,382 | 3,422 | 833 | 864 | 724 | 745 |
| Construction laborers | 845 | 878 | 821 | 855 | 703 | 730 | 24 | 24 | 16 | 22 |
| Other handlers, equipment cleaners, helpers, and laborers .......... | 4,271 | 4,228 | 3,462 | 3,388 | 2,680 | 2,693 | 808 | 840 | 708 | 724 |
| Farming, forestry, and fishing. | 4,100 | 3,993 | 3,451 | 3,326 | 2,945 | 2,894 | 649 | 667 | 572 | 595 |
| Farm operators and managers ...................................................... | 1,378 | 1,230 | 1,171 | 1,037 | 1,154 | 1,020 | 207 | 193 | 204 | 191 |
| Other farming, forestry, and fishing occupations ............................ | 2,722 | 2,764 | 2,280 | 2,289 | 1,790 | 1,875 | 442 | 474 | 369 | 404 |

## HOUSEHOLD DATA

NOT SEASONALLY ADJUSTED
A-23. Employed civilians by occupation, race, and sex
(Percent distribution)

| Occupation and race | Total |  | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. 1989 | Aug. <br> 1990 | Aug. <br> 1989 | Aug. 1990 | Aug. 1989 | $\begin{aligned} & \text { Aug. } \\ & 1990 \end{aligned}$ |
| total <br> Total, 16 years and over (thousands) $\qquad$ <br> Percent $\qquad$ |  |  |  |  |  |  |
|  | 119,092 | 119,174 | 65,912 | 65,604 | 53,180 | 53,570 |
|  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Managerial and professional specialty .......................................................... | 25.1 | 25.6 | 25.1 | 25.3 | 25.1 | 26.0 |
| Executive, administrative, and managerial $\qquad$ Professional specialty $\qquad$ | 12.6 | 12.7 | 13.8 | 13.8 | 11.2 | 11.3 |
|  | 12.5 | 12.9 | 11.3 | 11.5 | 13.9 | 14.7 |
| Technical, sales, and administrative support .................................................. | 30.8 | 30.4 | 19.7 | 19.5 | 44.6 | 43.8 |
| Technicians and related support ................................................................ | 3.1 | 3.2 | 3.0 | 2.9 | 3.3 | 3.4 |
| Sales occupations .................................................................................... | 12.1 | 11.8 | 11.0 | 10.9 | 13.4 | 12.9 |
| Administrative support, including clerical ..................................................... | 15.6 | 15.5 | 5.6 | 5.7 | 28.0 | 27.4 |
| Service occupations .................................................................................... | 13.5 | 13.6 | 9.7 | 10.0 | 18.2 | 18.1 |
| Private household | . 8 | . 7 | . 1 | - | 1.7 | 1.5 |
| Protective service. | 1.8 | 1.8 | 2.7 | 2.7 | . 7 | . 7 |
| Service, except private household and protective ....................................... | 10.9 | 11.1 | 7.0 | 7.2 | 15.8 | 15.9 |
| Precision production, craft, and repair ........................................................... | 11.8 | 11.6 | 19.4 | 19.3 | 2.2 | 2.2 |
| Operators, fabricators, and laborers ............................................................. | 15.4 | 15.4 | 20.8 | 20.8 | 8.7 | 8.7 |
| Machine operators, assemblers, and inspectors $\qquad$ Transportation and material moving occupations | 7.0 | 7.1 | 7.5 | 7.6 | 6.4 | 6.4 |
|  | 4.1 | 4.0 | 6.9 | 6.7 | . 7 | . 8 |
| Handlers, equipment cleaners, helpers, and laborers $\qquad$ <br> Farming, forestry, and fishing $\qquad$ | 4.3 | 4.3 | 6.5 | 6.5 | 1.6 | 1.6 |
|  | 3.4 | 3.4 | 5.2 | 5.1 | 1.2 | 1.2 |
| White |  |  |  |  |  |  |
| Total, 16 years and over (thousands) ......................................................... | 102,938 | 103,217 | 57,638 | 57,446 | 45,300 | 45,771 |
| Percent ..................................................................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Managerial and professional specialty .......................................................... | 26.1 | 26.6 | 26.3 | 26.5 | 25.9 | 26.9 |
| Executive, administrative, and managerial ................................................... | 13.2 | 13.4 | 14.6 | 14.7 | 11.6 | 11.8 |
| Professional specialty ............................................................................... | 12.9 | 13.3 | 11.8 | 11.8 | 14.3 | 15.1 |
| Technical, sales, and administrative support ................................................. | 31.1 | 30.8 | 19.8 | 19.7 | 45.5 | 44.7 |
| Technicians and related support ............................................................... | 3.1 | 3.2 | 3.0 | 3.0 | 3.2 | 3.4 |
| Sales occupations .................................................................................... | 12.6 | 12.2 | 11.7 | 11.4 | 13.8 | 13.3 |
| Administrative support, including clerical ...................................................... | 15.4 | 15.4 | 5.2 | 5.3 | 28.5 | 28.0 |
| Service occupations .................................................................................... | 12.3 | 12.4 | 8.5 | 8.9 | 17.0 | 16.8 |
| Private household | . 7 | . 6 | - | . 1 | 1.4 | 1.2 |
| Protective service ...................................................................................... | 1.7 | 1.7 | 2.4 | 2.6 | . 7 | . 6 |
| Service, except private household and protective ....................................... | 9.9 | 10.1 | 6.1 | 6.2 | 14.9 | 15.0 |
| Precision production, craft, and repair ........................................................... | 12.1 | 12.1 | 20.0 | 20.0 | 2.1 | 2.1 |
| Operators, fabricators, and laborers ............................................................... | 14.7 | 14.5 | 19.8 | 19.7 | 8.1 | 8.1 |
| Machine operators, assemblers, and inspectors $\qquad$ <br> Transportation and material moving occupations $\qquad$ | 6.6 | 6.6 | 7.2 | 7.3 | 5.9 | 5.8 |
|  | 4.0 | 3.8 | 6.6 | 6.3 | . 8 | . 7 |
| Handlers, equipment cleaners, helpers, and laborers ....................................................................................................... | 4.0 | 4.1 | 6.1 | 6.1 | 1.5 | 1.6 |
|  | 3.7 | 3.5 | 5.5 | 5.2 | 1.3 | 1.4 |
| Black |  |  |  |  |  |  |
| Total, 16 years and over (thousands) ......................................................... | 12,197 | 12,027 | 6,128 | 6,022 | 6,070 | 6,005 |
| Percent ......................................................................................................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Managerial and professional specialty .......................................................... | 15.2 | 16.0 | 12.0 | 12.5 | 18.4 | 19.5 |
| Executive, administrative, and managerial ........................................................................................................................ | 7.2 | 7.3 | 6.4 | 6.5 | 7.9 | 8.0 |
|  | 8.0 | 8.7 | 5.5 | 6.0 | 10.4 | 11.5 |
| Technical, sales, and administrative support ................................................. | 28.3 | 27.4 | 17.4 | 47.0 | 39.3 | 37.8 |
|  | 3.2 | 2.5 | 2.8 | 1.7 | 3.5 | 3.2 |
|  | 8.0 | 8.1 | 5.7 | 6.1 | 10.3 | 10.2 |
| Administrative support, including clerical ..................................................... | 17.2 | 16.7 | 8.9 | 9.2 | 25.5 | 24.3 |
| Service occupations ....................................................................................................... | 23.3 | 23.0 | 19.3 | 18.8 | 27.2 | 27.2 |
| Private household .................................................................................... | 1.9 | 1.5 | . 2 | - | 3.6 | 3.0 |
| Protective service | 3.1 | 2.9 | 5.1 | 4.6 | 1.0 | 1.2 |
| Service, except private household and protective $\qquad$ Precision production, craft, and repair $\qquad$ | 18.3 | 18.6 | 14.0 | 14.3 | 22.7 | 22.9 |
|  | 9.1 | 8.4 | 15.5 | 14.5 | 2.6 | 2.2 |
| Operators, fabricators, and laborers ............................................................. | 21.9 | 23.0 | 31.8 | 33.3 | 11.9 | 12.7 |
| Machine operators, assemblers, and inspectors .......................................... | 9.5 | 10.3 | 10.0 | 10.8 | 9.1 | 9.8 |
| Transportation and material moving occupations ........................................... | 5.8 | 6.3 | 10.7 | 11.6 | . 8 | 1.0 |
| Handlers, equipment cleaners, helpers, and laborers .................................. | 6.6 | 6.4 | 11.1 | 10.9 | 2.1 | 1.9 |
| Farming, forestry, and fishing ....................................................................... | 2.2 | 2.3 | 3.9 | 3.9 | . 6 | . 6 |

A-24. Employed civilians by age, sex, and class of worker
(In thousands)

| Age and sex | August 1990 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Nonagricultural industries |  |  |  |  |  | Agriculture |  |  |
|  | Wage and salary workers |  |  |  | Selfemployed workers | Unpaid family workers | Wage and salary workers | Selfemployed workers | Unpaid family workers |
|  | Total | Private household workers | Government | Other |  |  |  |  |  |
| Total, 16 years and over. | 106,679 | 1,105 | 17,164 | 88,410 | 8,793 | 229 | 1,904 | 1,441 | 128 |
| 16 to 19 years ............................................ | 6,657 | 218 | 372 | 6,067 | 93 | 16 | 275 | 53 | 36 |
| 16 to 17 years ......................................... | 2,573 | 137 | 121 | 2,314 | 29 | 9 | 136 | 23 | 18 |
| 18 to 19 years ......................................... | 4,084 | 81 | 251 | 3,753 | 64 | 7 | 139 | 30 | 17 |
| 20 to 24 years ............................................ | 12,435 | 122 | 1,086 | 11,227 | 300 | 13 | 344 | 61 | 13 |
| 25 to 34 years ............................................ | 31,024 | 172 | 4,152 | 26,699 | 1,879 | 43 | 527 | 285 | 10 |
| 35 to 44 years ............................................ | 27,016 | 156 | 5,460 | 21,400 | 2,696 | 57 | 352 | 319 | 20 |
| 45 to 54 years ........................................... | 17,394 | 142 | 3,720 | 13,532 | 1,905 | 53 | 196 | 231 | 15 |
| 55 to 64 years ............................................ | 9,701 | 164 | 1,958 | 7.579 | 1,314 | 33 | 147 | 264 | 22 |
| 55 to 59 years ......................................... | 5,848 | 82 | 1,227 | 4,540 | 748 | 24 | 94 | 125 | 19 |
| 60 to 64 years ......................................... | 3,852 | 82 | 731 | 3,040 | 566 | 9 | 53 | 139 | 3 |
| 65 years and over ....................................... | 2,453 | 131 | 416 | 1,906 | 607 | 14 | 62 | 228 | 11 |
| Men, 16 years and over ............................ | 57,077 | 196 | 8,104 | 48,777 | 5,746 | 37 | 1,487 | 1,203 | 53 |
| 16 to 19 years ............................................ | 3,360 | 63 | 209 | 3,087 | 62 | 12 | 231 | 49 | 28 |
| 16 to 17 years ......................................... | 1,300 | 41 | 63 | 1,196 | 18 | 6 | 115 | 23 | 15 |
| 18 to 19 years ......................................... | 2,059 | 22 | 147 | 1,891 | 44 | 6 | 116 | 27 | 12 |
| 20 to 24 years ............................................ | 6,437 | 23 | 521 | 5,892 | 181 | 8 | 274 | 58 | 13 |
| 25 to 34 years ............................................ | 17,031 | 29 | 1,968 | 15,034 | 1,166 | 8 | 387 | 248 | - |
| 35 to 44 years ............................................ | 14,410 | 25 | 2,484 | 11,901 | 1,708 | 1 | 262 | 247 | - |
| 45 to 54 years ............................................ | 9,277 | 28 | 1,765 | 7,484 | 1,258 | 1 | 160 | 168 | 3 |
| 55 to 64 years ............................................ | 5,310 | 17 | 958 | 4,335 | 938 | 2 | 116 | 222 | 2 |
| 55 to 59 years ......................................... | 3,162 | 7 | 569 | 2,586 | 553 | 3 | 69 | 108 | 2 |
| 60 to 64 years ......................................... | 2,147 | 10 | 388 | 1,749 | 385 | - | 46 | 114 | - |
| 65 years and over ......................................... | 1,253 | 11 | 198 | 1,043 | 433 | 5 | 57 | 212 | 7 |
| Women, 16 years and over ...... | 49,602 | 909 | 9,060 | 39,634 | 3,047 | 192 | 417 | 238 | 75 |
| 16 to 19 years ........................................... | 3,297 | 155 | 163 | 2,980 | 30 | 4 | 44 | 3 | 8 |
| 16 to 17 years .......................................... | 1,273 | 96 | 58 | 1,118 | 11 | 3 | 21 | - | 3 |
| 18 to 19 years ......................................... | 2,025 | 59 | 104 | 1,861 | 19 | 1 | 23 | 3 | 5 |
| 20 to 24 years ............................................ | 5,998 | 99 | 565 | 5,334 | 119 | 5 | 71 | 3 | 1 |
| 25 to 34 years ............................................ | 13,993 | 143 | 2,184 | 11,665 | 713 | 35 | 140 | 37 | 10 |
| 35 to 44 years ............................................ | 12,606 | 132 | 2,975 | 9,499 | 988 | 55 | 90 | 72 | 20 |
| 45 to 54 years ............................................ | 8,117 | 114 | 1,955 | 6,049 | 647 | 51 | 36 | 64 | 12 |
| 55 to 64 years ........................................... | 4,391 | 147 | 1,000 | 3,244 | 376 | 31 | 31 | 42 | 20 |
| 55 to 59 years .......................................... | 2,686 | 75 | 658 | 1,954 | 195 | 22 | 25 | 17 | 17 |
| 60 to 64 years ......................................... | 1,705 | 72 | 343 | 1,290 | 181 | 10 | 6 | 25 | 3 |
| 65 years and over ...................................... | 1,200 | 120 | 217 | 863 | 174 | 10 | 5 | 16 | 4 |

## HOUSEHOLD DATA

NOT SEASONALLY ADJUSTED

## A-25. Employed civilians by industry and occupation

(In thousands)

| Industry | August 1990 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total employed | Managenial and professional specialty |  | Technical, sales, and administrative support |  |  | Service occupations |  | Precision production, craft, and repair | Operators, fabricators, and laborers |  |  | Farming, forestry, and fishing |
|  |  | Executive, administrative, and managerial | Professional specialty | Technicians and related support | Sales | Administrative support, including clerical | Private household | Other service' |  | Machine operators, assemblers, and inspectors | Transportation and material moving | Handlers, equipment cleaners, helpers, and laborers |  |
| Agriculture | 3,473 | 100 | 74 | 22 | 19 | 100 | - | 17 | 49 | 5 | 43 | 11 | 3,031 |
| Mining .................................... | 770 | 110 | 69 | 31 | 12 | 59 | - | 9 | 272 | 25 | 131 | 47 | 5 |
| Construction .......................... | 8,009 | 1,117 | 129 | 62 | 89 | 427 | - | 16 | 4,535 | 118 | 513 | 967 | 35 |
| Manufacturing ........................ | 21,602 | 2,499 | 1,816 | 749 | 782 | 2,390 | - | 407 | 3,905 | 6,877 | 805 | 1,221 | 151 |
| Durable goods ..................... | 12,810 | 1,510 | 1,278 | 517 | 347 | 1,398 | - | 214 | 2,712 | 3,738 | 401 | 578 | 118 |
| Nondurable goods ............... | 8,792 | 988 | 538 | 232 | 435 | 992 | - | 194 | 1,193 | 3,139 | 404 | 643 | 33 |
| Transportation and public utilities $\qquad$ | 8,145 | 870 | 454 | 299 | 328 | 2,209 | - | 317 | 1,261 | 157 | 1,795 | 446 | 10 |
| Wholesale and retail trade ...... | 24,667 | 2,130 | 515 | 136 | 9,935 | 2,386 | - | 4,779 | 1,581 | 368 | 951 | 1,845 | 38 |
| Wholesale trade ................... | 4,758 | 564 | 98 | 44 | 1,800 | 760 | - | 39 | 377 | 170 | 476 | 417 | 14 |
| Retail trade .......................... | 19,909 | 1,566 | 418 | 92 | 8,135 | 1,626 | - | 4,741 | 1,205 | 199 | 475 | 1,428 | 23 |
| Finance, insurance, and real estate $\qquad$ | 7,975 | 2,071 | 212 | 133 | 1,892 | 3,048 | - | 313 | 151 | 20 | 15 | 23 | 96 |
| Services ................................ | 38,892 | 4,998 | 11,357 | 2,084 | 938 | 6,338 | 824 | 8,122 | 1,867 | 810 | 490 | 491 | 572 |
| Private households .............. | 1,114 | 2 | 15 | 3 | 6 | 5 | 824 | 105 | 22 | - | 4 | 18 | 111 |
| Other service industries ........ | 37,778 | 4,996 | 11,342 | 2,081 | 932 | 6,333 | - | 8,017 | 1,845 | 810 | 485 | 474 | 461 |
| Professional services ......... | 24,585 | 2,743 | 9,972 | 1,691 | 109 | 4,514 | - | 4,470 | 389 | 237 | 252 | 84 | 124 |
| Public administration ................ | 5,642 | 1,215 | 766 | 246 | 25 | 1,503 | - | 1,416 | 238 | 43 | 78 | 55 | 56 |

${ }^{1}$ Includes protective service, not shown separately.

A-26. Employed civilians with a job but not at work by reason, sex, and pay status
(In thousands)

| Reason not working and sex | All industries |  | Nonagricultural industries |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | Aug. | Total |  | Wage and salary workers ${ }^{1}$ |  |  |  |
|  |  |  | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1990 \end{aligned}$ | Paid absences |  | Unpaid absences |  |
|  |  |  |  |  | Aug. <br> 1989 | Aug. $1990$ | Aug. <br> 1989 | Aug. <br> 1990 |
| Total, 16 years and over ................................ | 11,939 | 11,308 | 11,795 | 11,120 | 6,688 | 6,168 | 4,321 | 4,081 |
| Vacation ........................................................... | 9,266 | 8,737 | 9,176 | 8,626 | 5,846 | 5,364 | 2,824 | 2,706 |
| Illness .............................................................. | 1,351 | 1,284 | 1,327 | 1,261 | 538 | 500 | 702 | 680 |
| Bad weather ..................................................... | 26 | 41 | 17 | 30 | ${ }^{(2)}$ | ${ }^{(2)}$ | ${ }^{(1)}$ | ${ }^{(2)}$ |
| Industrial dispute | 161 | 26 | 161 | 25 | ( $\left.{ }^{( }\right)$ | ( $)$ | (2) | $\left({ }^{2}\right)$ |
| All other reasons ................................................ | 1,135 | 1,220 | 1,114 | 1,179 | 304 | 305 | 795 | 695 |
| Men, 16 years and over | 5,071 | 4,800 | 4,958 | 4,653 | 3,198 | 2,892 | 1,357 | 1,283 |
| Vacation | 3,818 | 3,638 | 3,749 | 3,552 | 2,799 | 2,518 | 703 | 741 |
| Iliness .............................................................. | 699 | 649 | 680 | 627 | 289 | 270 | 336 | 318 |
| All other reasons ${ }^{3}$.............................................. | 554 | 513 | 528 | 474 | 110 | 104 | 319 | 224 |
| Women, 16 years and over ............................ | 6,868 | 6,508 | 6,837 | 6,467 | 3,489 | 3,277 | 2,962 | 2,798 |
| Vacation ............................................................ | 5,449 | 5,099 | 5,427 | 5,073 | 3,047 | 2,846 | 2,121 | 1,966 |
| Iliness | 651 | 635 | 647 | 633 | 249 | 230 | 366 | 362 |
| All other reasons ${ }^{3}$.............................................. | 768 | 774 | 763 | 760 | 194 | 200 | 475 | 471 |
| - Excludes private household workers. <br> ${ }^{2}$ Pay status not available separately for bad weather and industrial dispute; these categories are included in all other reasons. |  |  | ${ }^{3}$ Includes bad weather and industrial dispute, not shown separately. NOTE: Estimates for "all other reasons" by pay status may be biased because of high response variance; data should be used with caution. |  |  |  |  |  |

A-27. Persons at work by hours of work and type of industry

| Hours of work | August 1990 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands of persons |  |  | Percent distribution |  |  |
|  | All industries | Agriculture | Nonagricultural industries | All industries | Agriculture | Nonagricultural industries |
| Total, 16 years and over ............................................ | 107,866 | 3,284 | 104,582 | 100.0 | 100.0 | 100.0 |
| 1 to 34 hours ............................................................... | 23,778 | 928 | 22,850 | 22.0 | 28.2 | 21.8 |
| 1 to 4 hours ............................................................. | 679 | 58 | 620 | . 6 | 1.8 | . 6 |
| 5 to 14 hours ............................................................ | 3,585 | 181 | 3,404 | 3.3 | 5.5 | 3.3 |
| 15 to 29 hours .......................................................... | 11,998 | 436 | 11,563 | 11.1 | 13.3 | 11.1 |
| 30 to 34 hours .......................................................... | 7,516 | 253 | 7,263 | 7.0 | 7.7 | 6.9 |
| 35 hours and over ....................................................... | 84,088 | 2,356 | 81,732 | 78.0 | 71.7 | 78.2 |
| 35 to 39 hours .......................................................... | 7,027 | 171 | 6,856 | 6.5 | 5.2 | 6.6 |
| 40 hours .................................................................. | 44,711 | 695 | 44,016 | 41.5 | 21.2 | 42.1 |
| 41 hours and over .................................................... | 32,350 | 1,490 | 30,859 | 30.0 | 45.4 | 29.5 |
| 41 to 48 hours ....................................................... | 11,140 | 209 | 10,931 | 10.3 | 6.4 | 10.5 |
| 49 to 59 hours ....................................................... | 11,721 | 427 | 11,295 | 10.9 | 13.0 | 10.8 |
| 60 hours and over .................................................. | 9,488 | 855 | 8,634 | 8.8 | 26.0 | 8.3 |
| Average hours, total at work ........................................ | 40.0 | 44.1 | 39.9 | - | - | - |
| Average hours, workers on full-time schedules .............. | 43.7 | 51.5 | 43.5 | - | - | - |

A-28. Persons at work 1 to 34 hours by reason for working less than 35 hours, type of industry, and usual status (Numbers in thousands)

| Reason for working less than 35 hours | August 1990 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All industries |  |  | Nonagricultural industries |  |  |
|  | Total | Usually work full time | Usually work part time | Total | Usually work full time | Usually work part time |
| Total, 16 years and over ..................................................................... | 23,778 | 8,107 | 15,671 | 22,850 | 7,826 | 15,024 |
| Economic reasons | 5,368 | 2,029 | 3,339 | 5,072 | 1,907 | 3,164 |
| Slack work ... | 2,392 | 1,435 | 957 | 2,195 | 1,324 | 871 |
| Material shortages or repairs to plant and equipment ............................... | 52 | 52 | - | 51 | 51 | - |
| New job started during week .............................................................. | 377 | 377 | - | 370 | 370 | - |
| Job terminated during week ................................................................... | 165 | 165 | - | 162 | 162 | - |
| Could find only part-time work ................................................................. | 2,382 | - | 2,382 | 2,293 | - | 2,293 |
| Other reasons ..................................................................................... | 18,410 | 6,078 | 12,332 | 17,778 | 5,918 | 11,860 |
| Does not want, or unavailable for, full-time work ..................................... | 9,786 | - | 9,786 | 9,418 | - | 9,418 |
| Vacation ............................................................................................... | 2,924 | 2,924 | - | 2,897 | 2,897 | - |
| Illiness ............................................................................................. | 1,287 | 1,127 | 160 | 1,246 | 1,101 | 145 |
| Bad weather ......................................................................................... | 224 | 224 | - | 164 | 164 | - |
| Industrial dispute .................................................................................. | 15 | 15 | - | 15 | 15 | - |
| Legal or religious holiday ..................................................................... | 116 | 116 | - | 116 | 116 | - |
| Full time for this job .............................................................................. | 1,669 | - | 1,669 | 1,614 | - | 1,614 |
| All other reasons ................................................................................... | 2,388 | 1,671 | 717 | 2,310 | 1,626 | 684 |
| Average hours: |  |  |  |  |  |  |
| Economic reasons | 22.2 | 24.2 | 21.1 | 22.3 | 24.1 | 21.1 |
| Other reasons ...................................................................................... | 21.9 | 24.9 | 20.4 | 22.0 | 24.9 | 20.5 |
| Worked 30 to 34 hours: |  |  |  |  |  |  |
| Economic reasons ................................................................................ | 1,766 | 882 | 884 | 1,668 | 827 | 841 |
| Other reasons ....................................................................................... | 5,750 | 2,914 | 2,836 | 5,594 | 2,847 | 2,747 |

A-29. Persons at work in nonagricultural industries by class of worker and full- or part-time status
(Numbers in thousands)

| Industry | August 1990 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total at work | On part time for economic reasons | On voluntary part time | On fuil-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 ........................................ | 104,582 | 5,072 | 11,860 | 87,650 | 56,791 | 10,931 | 19,928 | 39.9 | 43.5 |
| Wage and salary workers ........................................... | 96,365 | 4,454 | 10,375 | 81,536 | 53,999 | 10,415 | 17,122 | 39.8 | 43.2 |
| Mining ...................................................................... | 665 | 7 | 5 | 653 | 348 | 99 | 206 | 47.1 | 47.6 |
| Construction ............................................................ | 6,099 | 383 | 224 | 5,491 | 3,547 | 665 | 1,279 | 41.4 | 43.6 |
| Manufacturing ......................................................... | 19,826 | 465 | 547 | 18,813 | 12,043 | 2,992 | 3,778 | 42.3 | 43.3 |
| Durable goods ...................................................... | 11,734 | 179 | 252 | 11,303 | 7,197 | 1,803 | 2,303 | 42.7 | 43.4 |
| Nondurable goods ................................................ | 8,092 | 286 | 295 | 7,510 | 4,846 | 1,189 | 1,476 | 41.7 | 43.3 |
| Transportation and public utilities .............................. | 7,185 | 151 1,657 | 338 | 6,696 | 4,274 | 822 | 1,600 | 42.6 | 44.2 |
| Wholesale and retail trade ....................................... | 21,325 | 1,657 | 4,086 | 15,583 | 9,661 | 2,158 | 3,764 | 38.0 | 43.8 |
| Finance, insurance, and real estate .......................... | 6,821 | 132 | 513 | 6,176 | 4,308 | 722 | 1,146 | 40.3 | 42.3 |
| Service industries .................................................... | 29,277 | 1,615 | 4,508 | 23,154 | 16,266 | 2,391 | 4,497 | 37.8 | 42.4 |
| Private households ................................................ | 1,043 | 194 | 390 | 459 | 314 | 37 | 108 | 27.8 | 44.5 |
| All other industries ................................................. | 28,233 | 1,421 | 4,117 | 22,695 | 15,952 | 2,354 | 4,390 | 38.2 | 42.4 |
| Public administration .................................................. | 5,167 | 43 | 154 | 4,970 | 3,553 | 566 | 851 | 41.9 | 42.7 |
| Self-employed workers ............................................... | 7,988 | 606 | 1,396 | 5,986 | 2,717 | 505 | 2,764 | 40.7 | 48.0 |
| Unpaid family workers .................................................... | 229 | 12 | 89 | 128 | 75 | 11 | 42 | 33.8 | 43.0 |

## A-30. Persons at work in nonagricultural industries by sex, age, race, marital status, and full- or part-time status

(Numbers in thousands)

| Sex, age, race, and marital status | August 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 |  |  |  |  |  |  |  |  |
| Total, 16 years and over | 104,582 | 5,072 | 11,860 | 87,650 | 56,791 | 30,859 | 39.9 | 43.5 |
| 16 to 19 years ................................................... | 6,389 | 892 | 2,399 | 3,098 | 2,526 | 572 | 29.9 | 39.9 |
| 16 to 17 years ................................................. | 2,421 | 365 | 1,374 | 682 | 600 | 82 | 24.7 | 38.4 |
| 18 to 19 years ................................................. | 3,968 | 527 | 1,025 | 2,416 | 1,926 | 490 | 33.1 | 40.3 |
| 20 years and over. | 98,193 | 4,180 | 9,461 | 84,552 | 54,265 | 30,288 | 40.5 | 43.6 |
| 20 to 24 years | 12,076 | 870 | 1,390 | 9,817 | 7,034 | 2,783 | 38.5 | 42.2 |
| 25 years and over ............................................ | 86,117 | 3,310 | 8,071 | 74,736 | 47,231 | 27,505 | 40.8 | 43.8 |
| 25 to 44 years ............................................... | 56,693 | 2,216 | 4,237 | 50,240 | 31,175 | 19,065 | 41.4 | 44.0 |
| 45 to 64 years ... | 26,733 | 961 | 2,555 | 23,217 | 15,151 | 8,066 | 40.5 | 43.5 |
| 65 years and over ......................................... | 2,691 | 132 | 1,279 | 1,279 | 905 | 374 | 29.5 | 42.7 |
| Men, 16 years and over ................................. | 58,208 | 2,302 | 3,452 | 52,454 | 30,308 | 22,146 | 42.7 | 45.0 |
| 16 to 19 years .................................................... | 3,233 | 426 | 1,104 | 1,703 | 1,357 | 347 | 31.1 | 40.4 |
| 16 to 17 years | 1,230 | 181 | 649 | 400 | 358 | 42 | 25.8 | 38.6 |
| 18 to 19 years | 2,003 | 245 | 454 | 1,303 | 999 | 304 | 34.3 | 41.0 |
| 20 years and over | 54,975 | 1,876 | 2,349 | 50,751 | 28,952 | 21,799 | 43.4 | 45.2 |
| 20 to 24 years ................................................ | 6,355 | 403 | 501 | 5,451 | 3,615 | 1,836 | 40.5 | 43.4 |
| 25 years and over ............................................ | 48,620 | 1,473 | 1,847 | 45,300 | 25,337 | 19,963 | 43.8 | 45.4 |
| 25 to 44 years... | 31,931 | 991 | 641 | 30,299 | 16,431 | 13,868 | 44.5 | 45.7 |
| 45 to 64 years .............................................. | 15,193 | 422 | 580 | 14,191 | 8,372 | 5,819 | 43.3 | 44.9 |
| 65 years and over .......................................... | 1,496 | 59 | 627 | 810 | 532 | 277 | 31.8 | 43.7 |
| Women, 16 years and over ............................ | 46,374 | 2,770 | 8,408 | 35,196 | 26,483 | 8,714 | 36.3 | 41.2 |
| 16 to 19 years ................................................... | 3,156 | 466 | 1,295 | 1,395 | 1,170 | 225 | 28.8 | 39.3 |
| 16 to 17 years ................................................. | 1,191 | 184 | 725 | 282 | 243 | 39 | 23.6 | 38.2 |
| 18 to 19 years | 1,965 | 282 | 571 | 1,113 | 927 | 186 | 31.9 | 39.6 |
| 20 years and over .............................................. | 43,218 | 2,304 | 7,112 | 33,802 | 25,313 | 8,488 | 36.8 | 41.3 |
| 20 to 24 years ................................................. | 5,721 | 466 | 889 | 4,366 | 3,419 | 947 | 36.4 | 40.7 |
| 25 years and over | 37,497 | 1,838 | 6,224 | 29,436 | 21,894 | 7,542 | 36.9 | 41.3 |
| 25 to 44 years .............................................. | 24,762 | 1,225 | 3,596 | 19,941 | 14,744 | 5,197 | 37.4 | 41.3 |
| 45 to 64 years .............................................. | 11,540 | 540 | 1,975 | 9,025 | 6,778 | 2,247 | 36.9 | 41.4 |
| 65 years and over ......................................... | 1,195 | 73 | 653 | 470 | 373 | 97 | 26.6 | 40.9 |
| RACE |  |  |  |  |  |  |  |  |
| White, 16 years and over | 90,258 | 4,153 | 10,597 | 75,507 | 47,672 | 27,835 | 40.0 | 43.7 |
| Men | 50,775 | 1,857 | 3,004 | 45,914 | 25,753 | 20,161 | 43.0 | 45.3 |
| Women .............................................................. | 39,482 | 2,296 | 7,593 | 29,593 | 21,919 | 7,674 | 36.1 | 41.2 |
| Black, 16 years and over ............................... | 10,763 | 750 | 952 | 9,060 | 6,910 | 2,151 | 38.8 | 42.1 |
| Men ................. | 5,498 | 363 | 324 | 4,811 | 3,390 | 1,420 | 40.5 | 43.3 |
| Women .............................................................. | 5,265 | 387 | 628 | 4,250 | 3,519 | 731 | 37.1 | 40.8 |
| MARITAL STATUS |  |  |  |  |  |  |  |  |
| Men, 16 years and over: |  |  |  |  |  |  |  |  |
| Married, spouse present ................................... | 35,947 | 882 | 1,278 | 33,786 | 18,418 | 15,368 | 44.1 | 45.6 |
| Widowed, divorced, or separated ...................... | 6,348 | 283 | 243 | 5,821 | 3,274 | 2,547 | 43.6 | 45.7 |
| Single (never married) ...................................... | 15,914 | 1,136 | 1,931 | 12,847 | 8,616 | 4,231 | 39.2 | 43.4 |
| Women, 16 years and over: |  |  |  |  |  |  |  |  |
| Married, spouse present .................................. | 24,452 | 1,168 | 4,995 | 18,289 | 14,001 | 4,288 | 35.7 | 40.7 |
| Widowed, divorced, or separated ...................... | 9,555 | 592 | 1,131 | 7,832 | 5,609 | 2,223 | 38.3 | 42.1 |
| Single (never married) ...................................... | 12,367 | 1,010 | 2,282 | 9,075 | 6,872 | 2,203 | 36.0 | 41.3 |

## HOUSEHOLD DATA

NOT SEASONALLY ADJUSTED

## A-31. Persons at work in nonfarm occupations by sex and fuli- or part-time status

(Numbers in thousands)

| Occupation and sex | August 1990 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 fulltime schedules |
|  |  |  |  | Total | 40 hours or less | 41 to 48 hours | 49 hours or more |  |  |
| Total, 16 years and over' | 104,084 | 5,015 | 11,822 | 87,247 | 56,388 | 10,944 | 19,915 | 39.9 | 43.5 |
| Managerial and professional specialty | 25,939 | 564 | 2,072 | 23,303 | 13,047 | 2,942 | 7,314 | 42.3 | 44.9 |
| Executive, administrative, and managerial | 13,932 | 219 | 695 | 13,019 | 6,758 | 1,715 | 4,546 | 44.2 | 45.8 |
| Professional specialty .......................... | 12,007 | 345 | 1,378 | 10,284 | 6,289 | 1,226 | 2,768 | 40.2 | 43.7 |
| Technical, sales, and administrative support | 33,242 | 1,380 | 4,800 | 27,063 | 18,672 | 3,266 | 5,125 | 38.6 | 42.6 |
| Techricians and related support . | 3,459 | 65 | 290 | 3,105 | 2,144 | 422 | 539 | 40.8 | 42.8 |
| Sales occupations ................. | 13,052 | 763 | 2,307 | 9,982 | 5,442 | 1,298 | 3,243 | 39.6 | 45.2 |
| Administrative support, including clerical | 16,731 | 551 | 2,203 | 13,976 | 11,086 | 1,547 | 1,343 | 37.3 | 40.6 |
| Service occupations | 14,811 | 1,468 | 3,425 | 9,918 | 7,289 | 926 | 1,703 | 35.4 | 42.6 |
| Private household | 779 | 126 | 310 | 343 | 242 | 28 | 73 | 27.5 | 43.5 |
| Protective service | 1,953 | 35 | 137 | 1,781 | 1,132 | 222 | 427 | 43.0 | 45.0 |
| Service, except private household and protective | 12,079 | 1,306 | 2,978 | 7,795 | 5,915 | 676 | 1,204 | 34.6 | 42.0 |
| Precision production, craft, and repair . | 12,993 | 625 | 380 | 11,988 | 7,582 | 1,658 | 2,748 | 42.2 | 43.9 |
| Operators, fabricators, and laborers ... | 17,099 | 979 | 1,146 | 14,975 | 9,798 | 2,152 | 3,025 | 40.8 | 43.5 |
| Machine operators, assemblers, and inspectors | 7,917 | 348 | 307 | 7,262 | 5,036 | 1,099 | 1,128 | 41.0 | 42.6 |
| Transportation and material moving occupations .......................... | 4,345 | 165 | 249 | 3,931 | 2,007 | 543 | 1,381 | 44.2 | 46.7 |
| Handlers, equipment cleaners, helpers, and laborers ................... | 4,837 | 465 | 590 | 3,782 | 2,755 | 510 | 517 | 37.4 | 41.9 |
| Men, 16 years and over ${ }^{1}$ | 57,649 | 2,253 | 3,379 | 52,017 | 29,905 | 6,887 | 15,225 | 42.8 | 45.1 |
| Managerial and professional specialty | 14,856 | 238 | 622 | 13,996 | 6,744 | 1,712 | 5,540 | 45.2 | 46.7 |
| Executive, administrative, and managerial | 8,441 | 118 | 264 | 8,059 | 3,610 | 980 | 3,469 | 46.1 | 47.4 |
| Professional specialty | 6,415 | 120 | 357 | 5,938 | 3,135 | 731 | 2,072 | 43.9 | 45.9 |
| Technical, sales, and administrative support | 11,980 | 322 | 903 | 10,754 | 5,887 | 1,493 | 3,375 | 43.0 | 45.4 |
| Technicians and related support | 1,784 | 28 | 58 | 1,698 | 1,089 | 228 | 381 | 42.7 | 43.7 |
| Sales occupations | 6,678 | 181 | 570 | 5,928 | 2,623 | 832 | 2,472 | 44.5 | 47.4 |
| Administrative support, including clerical | 3,518 | 114 | 275 | 3,129 | 2,174 | 433 | 521 | 40.2 | 42.6 |
| Service occupations | 6,099 | 479 | 852 | 4,768 | 3,316 | 486 | 966 | 38.8 | 43.6 |
| Private household | 29 | 6 | 4 | 19 | 13 | 3 | 3 | ${ }^{2}$ ) | ${ }^{(2)}$ |
| Protective service | 1,652 | 24 | 94 | 1,534 | 940 | 204 | 390 | 43.8 | 45.5 |
| Service, except private household and protective | 4,418 | 448 | 755 | 3,215 | 2,363 | 279 | 573 | 36.9 | 42.7 |
| Precision production, craft, and repair | 11,887 | 571 | 252 | 11,064 | 6,893 | 1,526 | 2,645 | 42.6 | 44.1 |
| Operators, fabricators, and laborers | 12,827 | 643 | 749 | 11,434 | 7,065 | 1,670 | 2,699 | 41.9 | 44.3 |
| Machine operators, assemblers, and inspectors .. | 4,726 | 119 | 116 | 4,491 | 2,861 | 735 | 895 | 42.8 | 43.8 |
| Transportation and material moving occupations ......................... | 4,082 | 150 | 190 | 3,742 | 1,893 | 510 | 1,339 | 44.8 | 46.9 |
| Handlers, equipment cleaners, helpers, and laborers .................... | 4,018 | 374 | 443 | 3,201 | 2,311 | 425 | 465 | 37.9 | 42.0 |
| Women, 16 years and over' | 46,435 | 2,762 | 8,443 | 35,230 | 26,482 | 4,057 | 4,690 | 36.3 | 41.2 |
| Managerial and professional specialty .......................................... | 11,083 | 326 | 1,451 | 9,307 | 6,303 | 1,230 | 1,774 | 38.5 | 42.0 |
| Executive, administrative, and managerial ..................................... | 5,492 | 101 | 430 | 4,960 | 3,148 | 735 | 1,077 | 41.1 | 43.2 |
| Professional specialty ......................... | 5,592 | 225 | 1,020 | 4,347 | 3,155 | 495 | 697 | 36.0 | 40.6 |
| Technical, sales, and administrative support | 21,262 | 1,058 | 3,896 | 16,309 | 12,785 | 1,774 | 1,750 | 36.1 | 40.7 |
| Technicians and related support ................................................. | 1,676 | 37 | 231 | 1,407 | 1,054 | 194 | 158 | 38.7 | 41.7 |
| Sales occupations ..................................................................... | 6,374 | 583 | 1,737 | 4,054 | 2,819 | 465 | 770 | 34.5 | 42.1 |
| Administrative support, including clerical ...................................... | 13,213 | 438 | 1,928 | 10,848 | 8,912 | 1,114 | 822 | 36.6 | 40.0 |
| Service occupations ..................................................................... | 8,711 | 989 | 2,572 | 5,150 | 3,973 | 440 | 737 | 32.9 | 41.6 |
| Private household | 750 | 120 | 306 | 324 | 229 | 25 | 70 | 27.3 | 43.3 |
| Protective service ..................................................................... | 300 | 11 | 43 | 246 | 192 | 18 | 37 | 38.3 | 42.0 |
| Service, except private household and protective ......................... | 7,662 | 858 | 2,224 | 4,580 | 3,553 | 397 | 630 | 33.3 | 41.5 |
| Precision production, craft, and repair ............................................ | 1,106 | 54 | 128 | 924 | 689 | 132 | 103 | 38.5 | 41.7 |
| Operators, fabricators, and laborers .............................................. | 4,272 | 335 | 396 | 3,540 | 2,732 | 482 | 326 | 37.6 | 40.8 |
| Machine operators, assemblers, and inspectors . | 3,191 | 230 | 190 | 2,771 | 2,175 | 364 | 233 | 38.4 | 40.7 |
| Transportation and material moving occupations ........................... | 263 | 14 | 59 | 189 | 114 | 33 | 41 | 35.1 | 41.9 |
| Handlers, equipment cleaners, helpers, and laborers ................... | 818 | 91 | 146 | 580 | 444 | 85 | 52 | 35.1 | 40.9 |

${ }^{1}$ Excludes farming, forestry, and fishing occupations.
${ }^{2}$ Data not shown where base is less than $\mathbf{7 5 , 0 0 0}$.

A-32. Employment status of the noninstitutional population, including Armed forces stationed in the United States, by sex, seasonally adjusted
(Numbers in thousands)

| Employment status and sex | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Noninstitutional population' | 188,286 | 188,428 | 188,580 | 188,721 | 188,865 | 188,990 | 189,090 | 189,198 | 189,326 | 189,467 | 189,607 | 189,763 | 189,901 |
| Labor force' | 125,758 | 125,725 | 125,857 | 126,192 | 126,246 | 126,094 | 126,308 | 126,498 | 126,543 | 126,643 | 126,466 | 126,394 | 126,300 |
| Percent of population ${ }^{2}$ | 66.8 | 66.7 | 66.7 | 66.9 | 66.8 | 66.7 | 66.8 | 66.9 | 66.8 | 66.8 | 66.7 | 66.6 | 66.5 |
| Total employed' | 119,238 | 119,121 | 119,294 | 119,540 | 119,588 | 119,560 | 119,713 | 120,003 | 119,773 | 119,989 | 120,019 | 119,580 | 119,298 |
| Employment-population ratio ${ }^{3}$ | 63.3 | 63.2 | 63.3 | 63.3 | 63.3 | 63.3 | 63.3 | 63.4 | 63.3 | 63.3 | 63.3 | 63.0 | 62.8 |
| Resident Armed Forces | 1,688 | 1,702 | 1,709 | 1,704 | 1,700 | 1,697 | 1,678 | 1,669 | 1,657 | 1,639 | 1,630 | 1,627 | 1,640 |
| Civilian employed | 117,550 | 117,419 | 117,585 | 117,836 | 117,888 | 117,863 | 118,035 | 118,334 | 118,116 | 118,350 | 118,389 | 117,953 | 117,658 |
| Agriculture | 3,275 | 3,219 | 3,197 | 3,160 | 3,197 | 3,134 | 3,079 | 3,200 | 3,133 | 3,305 | 3,348 | 3,085 | 3,137 |
| Nonagricultural industries | 114,275 | 114,200 | 114,388 | 114,676 | 114,691 | 114,728 | 114,957 | 115,133 | 114,983 | 115,045 | 115,041 | 114,867 | 114,521 |
| Unemployed ...................................... | 6,520 | 6,604 | 6,563 | 6,652 | 6,658 | 6,535 | 6,594 | 6,495 | 6,770 | 6,653 | 6,447 | 6,814 | 7,003 |
| Unemployment rate ${ }^{4}$...................... | 5.2 | 5.3 | 5.2 | 5.3 | 5.3 | 5.2 | 5.2 | 5.1 | 5.3 | 5.3 | 5.1 | 5.4 | 5.5 |
| Not in labor force ................................. | 62,528 | 62,703 | 62,723 | 62,529 | 62,619 | 62,896 | 62,782 | 62,700 | 62,783 | 62,824 | 63,141 | 63,369 | 63,601 |
| Men |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Noninstitutional population ${ }^{1}$ | 90,384 | 90,456 | 90,535 | 90,606 | 90,678 | 90,772 | 90,822 | 90,874 | 90,942 | 91,014 | 91,087 | 91,168 | 91,240 |
| Labor force' | 69,404 | 69,360 | 69,599 | 69,635 | 69,725 | 69,539 | 69,639 | 69,712 | 69,779 | 69,737 | 69,599 | 69,544 | 69,459 |
| Percent of population ${ }^{2}$ | 76.8 | 76.7 | 76.9 | 76.9 | 76.9 | 76.6 | 76.7 | 76.7 | 76.7 | 76.6 | 76.4 | 76.3 | 76.1 |
| Total employed ${ }^{1}$ | 65,919 | 65,681 | 66,046 | 66,011 | 66,143 | 65,943 | 66,108 | 66,208 | 66,043 | 66,058 | 66,000 | 65,740 | 65,596 |
| Employment-population ratio ${ }^{3}$ | 72.9 | 72.6 | 73.0 | 72.9 | 72.9 | 72.6 | 72.8 | 72.9 | 72.6 | 72.6 | 72.5 | 72.1 | 71.9 |
| Resident Armed Forces .. | 1,519 | 1,531 | 1,533 | 1,529 | 1,525 | 1,523 | 1,506 | 1,497 | 1,499 | 1,472 | 1,465 | 1,462 | 1,475 |
| Civilian employed | 64,400 | 64,150 | 64,513 | 64,482 | 64,618 | 64,420 | 64,602 | 64,711 | 64,544 | 64,586 | 64,535 | 64,278 | 64,121 |
| Unemployed | 3,485 | 3,679 | 3,553 | 3,624 | 3,582 | 3,597 | 3,530 | 3,505 | 3,735 | 3,679 | 3,599 | 3,804 | 3,863 |
| Unemployment rate ${ }^{4}$ | 5.0 | 5.3 | 5.1 | 5.2 | 5.1 | 5.2 | 5.1 | 5.0 | 5.4 | 5.3 | 5.2 | 5.5 | 5.6 |
| Not in labor force | 20,980 | 21,096 | 20,936 | 20,971 | 20,953 | 21,233 | 21,183 | 21,162 | 21,163 | 21,277 | 21,488 | 21,624 | 21,781 |
| Women |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Noninstitutional population ${ }^{1}$ | 97,902 | 97,972 | 98,045 | 98,115 | 98,187 | 98,218 | 98,268 | 98,324 | 98,383 | 98,453 | 98,520 | 98,595 | 98,661 |
| Labor force ${ }^{1}$ | 56,354 | 56,365 | 56,258 | 56,557 | 56,521 | 56,555 | 56,669 | 56,785 | 56,764 | 56,906 | 56,867 | 56,849 | 56,842 |
| Percent of population ${ }^{2}$ | 57.6 | 57.5 | 57.4 | 57.6 | 57.6 | 57.6 | 57.7 | 57.8 | 57.7 | 57.8 | 57.7 | 57.7 | 57.6 |
| Total employed ${ }^{1}$.... | 53,319 | 53,440 | 53,248 | 53,529 | 53,445 | 53,617 | 53,605 | 53,795 | 53,729 | 53,931 | 54,019 | 53,839 | 53,702 |
| Employment-population ratio ${ }^{3}$. | 54.5 | 54.5 | 54.3 | 54.6 | 54.4 | 54.6 | 54.5 | 54.7 | 54.6 | 54.8 | 54.8 | 54.6 | 54.4 |
| Resident Armed Forces ..... | 169 | 171 | 176 | 175 | 175 | 174 | 172 | 172 | 158 | 167 | 165 | 165 | 165 |
| Civilian employed | 53,150 | 53,269 | 53,072 | 53,354 | 53,270 | 53,443 | 53,433 | 53,623 | 53,571 | 53,764 | 53,854 | 53,674 | 53,537 |
| Unemployed | 3,035 | 2,925 | 3,010 | 3,028 | 3,076 | 2,938 | 3,064 | 2,990 | 3,034 | 2,975 | 2,848 | 3,010 | 3,140 |
| Unemployment rate ${ }^{4}$ | 5.4 | 5.2 | 5.4 | 5.4 | 5.4 | 5.2 | 5.4 | 5.3 | 5.3 | 5.2 | 5.0 | 5.3 | 5.5 |
| Not in labor force | 41,548 | 41,607 | 41,787 | 41,558 | 41,666 | 41,663 | 41,599 | 41,539 | 41,619 | 41,547 | 41,653 | 41,746 | 41,819 |

${ }^{1}$ Includes members of the Armed Forces stationed in the United States.
${ }_{2}^{2}$ Labor force as a percent of the noninstitutional population.
${ }^{3}$ Total employnsent as a percent of the noninstitutional population.
${ }^{4}$ Unemployment as a percent of the labor force (including the resident

Armed Forces).
NOTE: The population and Armed Forces figures are not adjusted for seasonal variation. Detail for the seasonally adjusted data shown in tables A-32 through A-41 will not necessarily add to totals because of the independent seasonal adjustment of the various series.

A-33. Employment status of the civilian noninstitutional population by sex and age, seasonally adjusted
(Numbers in thousands)

| Employment status, sex, and age | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| total |  |  |  |  |  |  |  |  |  |  |  |  |  |
| vilian noninstitutional population' | 186,598 | 186,726 | 186,871 | 187,017 | 187,165 | 187,293 | 187,412 | 187,529 | 187,669 | 187,828 | 187,977 | 188,136 | 88,261 |
| Civilian labor force | 124,070 | 124,023 | 124,148 | 124,488 | 124,546 | 124,397 | 124,630 | 124,829 | 124,886 | 125,004 | 124,836 | 124,767 | 124,660 |
| Percent of population | 66.5 | 66.4 | 66.4 | 66.6 | 66.5 | 66.4 | 66.5 | 66.6 | 66.5 | 66.6 | 66.4 | 66.3 | 66.2 |
| Employed | 117,550 | 117,419 | 117,585 | 117,836 | 117,888 | 117,863 | 118,035 | 118,334 | 118,116 | 118,350 | 118,389 | 117,953 | 117,658 |
| Employment-population ratio ${ }^{2}$ | 63.0 | 62.9 | 62.9 | 63.0 | 63.0 | 62.9 | 63.0 | 63.1 | 62.9 | 63.0 | 63.0 | 62.7 | 62.5 |
| Unemployed. | 6,520 | 6,604 | 6,563 | 6,652 | 6,658 | 6,535 | 6,594 | 6,495 | 6,770 | 6,653 | 6,447 | 6,814 | 7,003 |
| Unemployment rate ......................... | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.2 | 5.4 | 5.3 | 5.2 | 5.5 | 5.6 |
| Men, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population'. | 81,754 | 81,790 | 81,905 | 81,968 | 82,055 | 82,168 | 82,248 | 82,378 | 82,487 | 82,581 | 82,676 | 82,790 | 82,862 |
| Civilian labor force .... | 63,717 | 63,771 | 63,918 | 63,967 | 64,071 | 63,958 | 64,101 | 64,183 | 64,251 | 64,312 | 64,364 | 64,344 | 64,362 |
| Percent of population | 77.9 | 78.0 | 78.0 | 78.0 | 78.1 | 77.8 | 77.9 | 77.9 | 77.9 | 77.9 | 77.9 | 77.7 | 77.7 |
| Employed | 60,861 | 60,729 | 61,026 | 61,033 | 61,154 | 60,976 | 61,172 | 61,270 | 61,138 | 61,265 | 61,345 | 61,196 | 61,143 |
| Employment-population ratio ${ }^{2}$. | 74.4 | 74.2 | 74.5 | 74.5 | 74.5 | 74.2 | 74.4 | 74.4 | 74.1 | 74.2 | 74.2 | 73.9 | 73.8 |
| Agriculture ....................... | 2,340 | 2,330 | 2,304 | 2,292 | 2,293 | 2,269 | 2,254 | 2,268 | 2,258 | 2,38 | 2,400 | 2,262 | 2,246 |
| Nonagricultural industries | 58,521 | 58,399 | 58,722 | 58,741 | 58,861 | 58,706 | 58,918 | 59,002 | 58,879 | 58,877 | 58,945 | 58,934 | 58,897 |
| Unemployed. | 2,856 | 3,042 | 2,892 | 2,934 | 2,917 | 2,983 | 2,929 | 2,913 | 3,113 | 3,047 | 3,019 | 3,148 | 3,219 |
| Unemployment rate ... | 4.5 | 4.8 | 4.5 | 4.6 | 4.6 | 4.7 | 4.6 | 4.5 | 4.8 | 4.7 | 4.7 | 4.9 | 5.0 |
| Not in labor force ......... | 18,037 | 18,019 | 17,987 | 18,001 | 17,984 | 18,210 | 18,147 | 18,195 | 18,236 | 18,269 | 18,312 | 18,446 | 18,500 |
| Women, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{\text {² }}$.. | 90,684 | 90,771 | 90,860 | 90,952 | 91,042 | 91,091 | 91,157 | 91,237 | 91,330 | 91,414 | 91,495 | 91,581 | 91,688 |
| Civilian labor force | 52,352 | 52,358 | 52,281 | 52,541 | 52,586 | 52,686 | 52,814 | 52,800 | 52,954 | 53,146 | 53,174 | 53,211 | 53,315 |
| Percent of population | 57.7 | 57.7 | 57.5 | 57.8 | 57.8 | 57.8 | 57.9 | 57.9 | 58.0 | 58.1 | 58.1 | 58.1 | 58.1 |
| Employed ............ | 49,875 | 49,984 | 49,796 | 50,043 | 50,048 | 50,255 | 50,287 | 50,344 | 50,427 | 50,709 | 50,776 | 50,719 | 50,699 |
| Employment-population ratio ${ }^{2}$ | 55.0 | 55.1 | 54.8 | 55.0 | 55.0 | 55.2 | 55.2 | 55.2 | 55.2 | 55.5 | 55.5 | 55.4 | 55.3 |
| Agriculture | 642 | 660 | 641 | 624 | 618 | 594 | 582 | 648 | 669 | 680 | 700 | 585 | 639 |
| Nonagricultural industries. | 49,233 | 49,324 | 49,155 | 49,419 | 49,430 | 49,661 | 49,704 | 49,696 | 49,758 | 50,029 | 50,077 | 50,135 | 50,060 |
| Unemployed. | 2,477 | 2,374 | 2,485 | 2,498 | 2,538 | 2,431 | 2,527 | 2,456 | 2,526 | 2,438 | 2,398 | 2,492 | 2,616 |
| Unemployment rate |  |  | 4.8 | 4.8 | 4.8 | 4.6 | 4.8 | 4.7 | 4.8 | 4.6 | 4.5 | 4.7 | 4.9 |
| Not in labor force ................ | 38,332 | 38,413 | 38,579 | 38,411 | 38,456 | 38,405 | 38,343 | 38,437 | 38,376 | 38,268 | 38,321 | 38,370 | 38,373 |
| Both sexes, 16 to 19 years |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$. | 14,160 | 14,166 | 14,107 | 14,097 | 14,067 | 14,034 | 14,008 | 13,914 | 13,852 | 13,832 | 13,806 | 13,764 | 13,711 |
| Civilian labor force | 8,001 | 7,894 | 7,949 | 7,980 | 7,889 | 7.752 | 7.715 | 7,846 | 7,681 | 7,545 | 7,298 | 7,212 | 6,983 |
| Percent of population | 56.5 | 55.7 | 56.3 | 56.6 | 56.1 | 55.2 | 55.1 | 56.4 | 55.4 | 54.6 | 52.9 | 52.4 | 50.9 |
| Employed | 6,814 | 6,706 | 6,763 | 6,760 | 6,686 | 6,631 | 6,577 | 6,720 | 6,551 | 6,376 | 6,268 | 6,038 | 5,815 |
| Employment-population ratio ${ }^{2}$ | 48.1 | 47.3 | 47.9 | 48.0 | 47.5 | 47.3 | 47.0 | 48.3 | 47.3 | 46.1 | 45.4 | 43.9 | 42.4 |
| Agriculture | 293 | 229 | 252 | 244 | 286 | 270 | 243 | 285 | 206 | 237 | 249 | 239 | 251 |
| Nonagricultural industries .... | 6,521 | 6,477 | 6,511 | 6,516 | 6,400 | 6,361 | 6,334 | 6,435 | 6,345 | 6,139 | 6,019 | 5,799 | 5,564 |
| Unemployed ... | 1,187 | 1,188 | 1,186 | 1,220 | 1,203 | 1,121 | 1,138 | 1,126 | 1,130 | 1,169 | 1,030 | 1,174 | 1,168 |
| Unemployment rate | 14.8 | 15.0 | 14.9 | 15.3 | 15.2 | 14.5 | 14.8 | 14.4 | 14.7 | 15.5 | 14.1 | 16.3 | 16.7 |
| Not in labor force ........................... | 6,159 | 6,272 | 6,158 | 6,117 | 6,178 | 6,282 | 6,293 | 6,068 | 6,171 | 6,287 | 6,508 | 6,552 | 6,728 |

${ }^{1}$ The population figures are not adjusted for seasonal vanation.
population.
${ }^{2}$ Civilian employment as a percent of the civilian noninstitutional

A-34. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted
(Numbers in thousands)

| Employment status, race, sex, age, and Hispanic origin | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| WHITE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population' ........... | 159,470 | 159,549 | 159,644 | 159,736 | 159,832 | 159,938 | 160,007 | 160,076 | 160,170 | 160,271 | 160,365 | 160,468 | 160,550 |
| Civilian labor force | 106,485 | 106,393 | 106,618 | 106,834 | 106,896 | 106,884 | 107,080 | 107,061 | 107,133 | 107,353 | 107,273 | 107,230 | 107,135 |
| Percent of population | 66.8 | 66.7 | 66.8 | 66.9 | 66.9 | 66.8 | 66.9 | 66.9 | 66.9 | 67.0 | 66.9 | 66.8 | 66.7 |
| Employed ..................... | 101,684 | 101,579 | 101,862 | 101,991 | 102,032 | 102,074 | 102,117 | 102,206 | 102,027 | 102,362 | 102,461 | 102,260 | 101,968 |
| Employment-population ratio ${ }^{2}$ | 63.8 | 63.7 | 63.8 | 63.8 | 63.8 | 63.8 | 63.8 | 63.8 | 63.7 | 63.9 | 63.9 | 63.7 | 63.5 |
| Unemployed ............................. | 4,801 | 4,814 | 4,756 | 4,843 | 4,864 | 4,811 | 4,962 | 4,856 | 5,106 | 4,991 | 4,812 | 4,970 | 5,167 |
| Unemployment rate ......................... | 4.5 | 4.5 | 4.5 | 4.5 | 4.6 | 4.5 | 4.6 | 4.5 | 4.8 | 4.6 | 4.5 | 4.6 | 4.8 |
| Men, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 55,443 | 55,465 | 55,626 | 55,676 | 55,747 | 55,771 | 55,815 | 55,828 | 55,826 | 55,919 | 55,932 | 55,895 | 56,035 |
| Percent of population ....................... | 78.4 | 78.3 | 78.5 | 78.5 | 78.5 | 78.4 | 78.4 | 78.4 | 78.3 | 78.3 | 78.3 | 78.1 | 78.3 |
| Employed .......................................... | 53,307 | 53,153 | 53,483 | 53,482 | 53,580 | 53,560 | 53,547 | 53,593 | 53,425 | 53,578 | 53,650 | 53,576 | 53,613 |
| Employment-population ratio ${ }^{2}$............ | 75.4 | 75.1 | 75.5 | 75.4 | 75.5 | 75.3 | 75.2 | 75.2 | 74.9 | 75.1 | 75.1 | 74.9 | 74.9 |
| Unemployed ....................................... | 2,136 | 2,312 | 2,143 | 2,194 | 2,167 | 2,211 | 2,268 | 2,235 | 2,400 | 2,341 | 2,282 | 2,318 | 2,423 |
| Unemployment rate .......................... | 3.9 | 4.2 | 3.9 | 3.9 | 3.9 | 4.0 | 4.1 | 4.0 | 4.3 | 4.2 | 4.1 | 4.1 | 4.3 |
| Women, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 44,184 | 44,198 | 44,207 | 44,360 | 44,469 | 44,475 | 44,615 | 44,523 | 44,740 | 44,925 | 45,055 | 45,120 | 45,100 |
| Percent of population ....................... | 57.2 | 57.2 | 57.1 | 57.3 | 57.4 | 57.4 | 57.5 | 57.4 | 57.6 | 57.8 | 57.9 | 57.9 | 57.9 |
| Employed .......................................... | 42,391 | 42,520 | 42,437 | 42,586 | 42,641 | 42,718 | 42,782 | 42,765 | 42,895 | 43,165 | 43,292 | 43,321 | 43,227 |
| Employment-population ratio ${ }^{2}$............ | 54.9 | 55.0 | 54.9 | 55.0 | 55.0 | 55.1 | 55.2 | 55.1 | 55.2 | 55.5 | 55.6 | 55.6 | 55.5 |
| Unemployed ....................................... | 1,793 | 1,678 | 1,770 | 1,774 | 1,828 | 1,757 | 1,833 | 1,758 | 1,844 | 1,760 | 1,763 | 1,799 | 1,873 |
| Unemployment rate .......................... | 4.1 | 3.8 | 4.0 | 4.0 | 4.1 | 4.0 | 4.1 | 3.9 | 4.1 | 3.9 | 3.9 | 4.0 | 4.2 |
| Both sexes, 16 to 19 years |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .. | 6,858 | 6,730 | 6,785 | 6,798 | 6,680 | 6,639 | 6,650 | 6,710 | 6,568 | 6,509 | 6,286 | 6,216 | 5,999 |
| Percent of population ....................... | 59.6 | 58.7 | 59.4 | 59.7 | 58.9 | 58.7 | 59.0 | 59.8 | 58.8 | 58.4 | 56.6 | 56.1 | 54.3 |
| Employed .......................................... | 5,986 | 5,906 | 5,942 | 5,923 | 5,811 | 5,796 | 5,788 | 5,847 | 5,707 | 5,619 | 5,519 | 5,363 | 5,128 |
| Employment-population ratio ${ }^{2}$............ | 52.0 | 51.5 | 52.0 | 52.0 | 51.2 | 51.3 | 51.4 | 52.1 | 51.1 | 50.4 | 49.7 | 48.4 | 46.4 |
| Unemployed | 872 | 824 | 843 | 875 | 869 | 843 | 862 | 863 | 861 | 890 | 767 | 853 | 871 |
| Unemployment rate | 12.7 | 12.2 | 12.4 | 12.9 | 13.0 | 12.7 | 13.0 | 12.9 | 13.1 | 13.7 | 12.2 | 13.7 | 14.5 |
| Men ..... | 13.1 | 13.3 | 13.8 | 14.3 | 14.0 | 12.9 | 12.7 | 13.0 | 13.8 | 14.2 | 12.9 | 15.1 | 15.7 |
| Women | 12.3 | 11.1 | 10.9 | 11.3 | 11.9 | 12.4 | 13.2 | 12.7 | 12.4 | 13.1 | 11.4 | 12.3 | 13.2 |
| BLACK |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$...... | 21,060 | 21,085 | 21,108 | 21,136 | 21,164 | 21,163 | 21,188 | 21,211 | 21,228 | 21,261 | 21,289 | 21,318 | 21,337 |
| Civilian labor force. | 13,476 | 13,518 | 13,507 | 13,576 | 13,522 | 13,510 | 13,437 | 13,581 | 13,570 | 13,587 | 13,472 | 13,379 | 13,366 |
| Percent of population ....................... | 64.0 | 64.1 | 64.0 | 64.2 | 63.9 | 63.8 | 63.4 | 64.0 | 63.9 | 63.9 | 63.3 | 62.8 | 62.6 |
| Employed | 11,961 | 11,938 | 11,923 | 11,954 | 11,920 | 11,978 | 12,030 | 12,148 | 12,161 | 12,179 | 12,064 | 11,870 | 11,791 |
| Employment-population ratio ${ }^{2}$............ | 56.8 | 56.6 | 56.5 | 56.6 | 56.3 | 56.6 | 56.8 | 57.3 | 57.3 | 57.3 | 56.7 | 55.7 | 55.3 |
| Unemployed ....................................... | 1,515 | 1,580 | 1,584 | 1,622 | 1,602 | 1,532 | 1,407 | 1,433 | 1,409 | 1,408 | 1,407 | 1,510 | 1,575 |
| Unemployment rate ......................... | 11.2 | 11.7 | 11.7 | 11.9 | 11.8 | 11.3 | 10.5 | 10.6 | 10.4 | 10.4 | 10.4 | 11.3 | 11.8 |
| Men, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force. | 6,198 | 6,239 | 6,234 | 6,247 | 6,244 | 6,189 | 6,172 | 6,227 | 6,240 | 6,241 | 6,293 | 6,293 | 6,235 |
| Percent of population ....................... | 73.9 | 74.6 | 74.2 | 74.2 | 74.0 | 73.5 | 73.3 | 73.6 | 73.7 | 73.5 | 74.0 | 73.9 | 73.1 |
| Employed .......................................... | 5,584 | 5,610 | 5,593 | 5,587 | 5,569 | 5,496 | 5,603 | 5,631 | 5,651 | 5,672 | 5,702 | 5,617 | 5,572 |
| Employment-population ratio ${ }^{2}$............ | 66.6 | 67.0 | 66.6 | 66.4 | 66.0 | 65.2 | 66.6 | 66.5 | 66.8 | 66.8 | 67.1 | 65.9 | 65.4 |
| Unemployed ....................................... | 614 | 629 | 641 | 660 | 675 | 693 | 569 | 596 | 589 | 569 | 591 | 676 | 663 |
| Unemployment rate ......................... | 9.9 | 10.1 | 10.3 | 10.6 | 10.8 | 11.2 | 9.2 | 9.6 | 9.4 | 9.1 | 9.4 | 10.7 | 10.6 |
| Women, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ... | 6,362 | 6,360 | 6,336 | 6,373 | 6,311 | 6,393 | 6,423 | 6,456 | 6,451 | 6,516 | 6,377 | 6,328 | 6,358 |
| Percent of population ........................ | 60.6 | 60.5 | 60.2 | 60.4 | 59.7 | 60.5 | 60.7 | 60.9 | 60.8 | 61.3 | 59.9 | 59.4 | 59.6 |
| Employed .......................................... | 5,753 | 5,743 | 5,706 | 5,722 | 5,681 | 5,802 | 5,821 | 5,872 | 5,858 | 5,921 | 5,812 | 5,735 | 5,730 |
| Employment-population ratio ${ }^{2}$............ | 54.8 | 54.6 | 54.2 | 54.2 | 53.8 | 54.9 | 55.0 | 55.4 | 55.2 | 55.7 | 54.6 | 53.8 | 53.7 |
| Unemployed ....................................... | 609 | 617 | 630 | 651 | 630 | 591 | 602 | 584 | 594 | 595 | 565 | 592 | 628 |
| Unemployment rate .......................... | 9.6 | 9.7 | 9.9 | 10.2 | 10.0 | 9.2 | 9.4 | 9.0 | 9.2 | 9.1 | 8.9 | 9.4 | 9.9 |

See footnotes at end of table.

## HOUSEHOLD DATA

## SEASONALLY ADJUSTED

A-34. Employment status of the clvilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted-Continued
(Numbers in thousands)

| Employment status, race, sex, age, and Hispanic origin | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| BLACK-Continued Both sexes, 16 to 19 years |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .................................. | 916 | 919 | 937 | 956 | 967 | 928 | 842 | 898 | 879 | 830 | 802 | 758 | 773 |
| Percent of population ........................ | 42.2 | 41.8 | 43.0 | 44.0 | 44.6 | 42.8 | 38.5 | 41.7 | 40.8 | 38.6 | 37.4 | 35.4 | 36.1 |
| Employed ............................................ | 624 | 585 | 624 | 645 | 670 | 680 | 606 | 645 | 652 | 586 | 550 | 517 | 489 |
| Employment-population ratio ${ }^{2}$............ | 28.7 | 26.6 | 28.6 | 29.7 | 30.9 | 31.3 | 27.7 | 30.0 | 30.3 | 27.3 | 25.6 | 24.1 | 22.8 |
| Unemployed ......................................... | 292 | 334 | 313 | 311 | 297 | 248 | 236 | 253 | 227 | 244 | 252 | 241 | 284 |
| Unemployment rate .......................... | 31.9 | 36.3 | 33.4 | 32.5 | 30.7 | 26.7 | 28.0 | 28.2 | 25.8 | 29.4 | 31.4 | 31.8 | 36.7 |
| Men ............................................... | 30.3 | 33.8 | 32.0 | 32.3 | 30.1 | 29.2 | 28.5 | 30.0 | 27.2 | 31.1 | 37.4 | 32.3 | 38.4 |
| Women .......................................... | 33.6 | 38.8 | 34.9 | 32.7 | 31.4 | 24.0 | 27.5 | 26.2 | 24.3 | 27.6 | 25.3 | 31.2 | 35.0 |
| HISPANIC ORIGIN |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$............ | 13,853 | 13,894 | 13,936 | 13,977 | 14,019 | 14,080 | 14,119 | 14,159 | 14,198 | 14,238 | 14,277 | 14,317 | 14,356 |
| Civilian labor force .................................. | 9,361 | 9,342 | 9,339 | 9,424 | 9,495 | 9,440 | 9,400 | 9,565 | 9,618 | 9,669 | 9,651 | 9,665 | 9,707 |
| Percent of population ....................... | 67.6 | 67.2 | 67.0 | 67.4 | 67.7 | 67.0 | 66.6 | 67.6 | 67.7 | 67.9 | 67.6 | 67.5 | 67.6 |
| Employed | 8,541 | 8,564 | 8,595 | 8,672 | 8,691 | 8,769 | 8,666 | 8,831 | 8,850 | 8,927 | 8,967 | 8,899 | 8,951 |
| Employment-population ratio ${ }^{2}$............ | 61.7 | 61.6 | 61.7 | 62.0 | 62.0 | 62.3 | 61.4 | 62.4 | 62.3 | 62.7 | 62.8 | 62.2 | 62.3 |
| Unemployed | 820 | 778 | 744 | 752 | 804 | 671 | 734 | 734 | 768 | 742 | 684 | 767 | 757 |
| Unemployment rate ......................... | 8.8 | 8.3 | 8.0 | 8.0 | 8.5 | 7.1 | 7.8 | 7.7 | 8.0 | 7.7 | 7.1 | 7.9 | 7.8 |

1 The population figures are not adjusted for seasonal variation.
${ }^{2}$ Civilian employment as a percent of the civilian noninstitutional population.

NOTE: Detail for the above race and Hispanic-origin groups will not sum to totals because data for the "other races" group are not presented and Hispanics are included in both the white and black population groups.

A-35. Employed civilians by selected social and economic categories, seasonally adjusted
(In thousands)

| Category | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| CHARACTERISTIC | $\begin{array}{r} 117,550 \\ 40,723 \end{array}$ | $\begin{array}{r} 117,419 \\ 40,649 \end{array}$ | 117,585 | 117,836 | 117,888 | 117,863 | 118,035 | 118,334 | 118,116 | 118,350 | 118,389 | 117,953 | $117,658$ |
| Total |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Married men, spouse present |  |  | 40,839 | 40,886 | 41,041 | 40,982 | 41,347 | 40,989 | 40,730 | 40,881 | 40,554 | 40,545 |  |
| Married women, spouse present | 29,2596,371 | 29,5066,429 | 29,544 | 29,767 | 29,695 | 29,897 | 29,704 | 29,618 | 29,742 | 30,046 | 29,856 | 29,909 | 29,949 |
| Women who maintain families ................ |  |  | 6,354 | 6,351 | 6,349 | 6,215 | 6,378 | 6,291 | 6,325 | 6,400 | 6,467 | 6,380 | 6,365 |
| MAJOR INDUSTRY AND CLASS OF WORKER |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Agriculture: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wage and salary workers ...................... | 1,723 | 1,680 | 1,678 | 1,687 | 1,677 | 1,634 | 1,578 | 1,620 | 1,621 | 1,728 | 1,685 | 1,628 | 1,666 |
| Self-employed workers ......................... | 1.410 | 1,424 | 1,406 | 1,373 | 1,369 | 1,354 | 1,375 | 1,457 | 1,429 | 1,502 | 1,507 | 1,377 | 1,357 |
| Unpaid family workers .......................... | 133 | 132 | 124 | 122 | 125 | 107 | 118 | 115 | 112 | 101 | 106 | 96 | 93 |
| Nonagricultural industries: Wage and salary workers | 105,317 | 105,476 | 105,504 | 105,960 | 105,643 | 105,747 | 106,117 | 106,029 | 105,938 | 106,176 | 105,985 | 105,885 | 105,691 |
| Government ................... | 17,559 | 17,613 | 17,595 | 17,681 | 17,728 | 17,626 | 17,607 | 17,724 | 17,816 | 18,113 | 17,863 | 17,788 | 17,842 |
| Private industries ..... | 87,758 | 87,863 | 87,909 | 88,279 | 87,915 | 88,121 | 88,510 | 88,306 | 88,122 | 88,063 | 88,121 | 88,097 | 87,849 |
| Private households | 1,147 | 1,065 | 987 | 1,051 | 1,077 | 1,035 | 1,021 | 1,003 | 957 | 941 | 1,056 | 989 | 1,033 |
| Other industries ........ | 86,611 | 86,798 | 86,922 | 87,228 | 86,838 | 87,086 | 87,489 | 87,302 | 87,165 | 87,122 | 87,065 | 87,108 | 86,816 |
| Self-employed workers | 8,621 | 8,581 | 8,610 | 8,528 | 8,653 | 8,733 | 8,628 | 8,852 | 8,716 | 8,783 | 8,759 | 8,709 | 8,629 |
| Unpaid tamily workers | 272 | 279 | 280 | 264 | 251 | 256 | 313 | 261 | 258 | 254 | 226 | 269 | 229 |
| PERSONS AT WORK PART TIME ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All industries: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part time for economic reasons ............. | 4,802 | 4,864 | 4,767 | 4,803 | 4,802 | 4,983 | 4,887 | 5,004 | 4,871 | 4,831 | 5,013 | 4,870 | 5,036 |
| Slack work ......................................... | 2,281 | 2,321 | 2,314 | 2,297 | 2,277 | 2,402 | 2,307 | 2,476 | 2,407 | 2,439 | 2,499 | 2,565 | 2,424 |
| Could only find part-time work .............. | 2,142 | 2,161 | 2,082 | 2,162 | 2,106 | 2,255 | 2,211 | 2,127 | 2,138 | 2,052 | 2,224 | 2,070 | 2,123 |
| Voluntary part time ............................... | 15,550 | 15,506 | 15,368 | 15,254 | 15,388 | 14,931 | 15,381 | 15,464 | 15,193 | 15,592 | 15,125 | 15,311 | 15,377 |
| Nonagricultural industries: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part time for economic reasons ....... | 4,567 | 4,605 | 4,526 | 4,552 | 4,554 | 4,729 | 4,703 | 4,747 | 4,630 | 4,666 | 4,734 | 4,710 | 4,780 |
| Slack work | 2,129 | 2,165 | 2,166 | 2,132 | 2,111 | 2,240 | 2,183 | 2,293 | 2,218 | 2,317 | 2,284 | 2,408 | 2,242 |
| Could only find part-time work .............. | 2,076 | 2,095 | 2,021 | 2,097 | 2,051 | 2,172 | 2,173 | 2,050 | 2,096 | 2,004 | 2,141 | 2,048 | 2,069 |
| Voluntary part time ................................ | 15,071 | 15,076 | 14,936 | 14,805 | 14,983 | 14,515 | 14,924 | 14,975 | 14,804 | 15,064 | 14,627 | 14,922 | 14,899 |

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

## A-36. Employed civilians by sex and age, seasonally adjusted

(In thousands)

| Sex and age | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| Total, 16 years and over | 117,550 | 117,419 | 117,585 | 117,836 | 117,888 | 117,863 | 118,035 | 118,334 | 118,116 | 118,350 | 118,389 | 117,953 | 117,658 |
| 16 to 24 years | 19,813 | 19,489 | 19,487 | 19,482 | 19,298 | 19,309 | 19,247 | 19,459 | 19,196 | 19,080 | 18,979 | 18,702 | 18,366 |
| 16 to 19 years | 6,814 | 6,706 | 6,763 | 6,760 | 6,686 | 6,631 | 6,577 | 6,720 | 6,551 | 6,376 | 6,268 | 6,038 | 5,815 |
| 16 to 17 years | 2,574 | 2,571 | 2,645 | 2,598 | 2,518 | 2,501 | 2,513 | 2,557 | 2,460 | 2,386 | 2,300 | 2,166 | 2,085 |
| 18 to 19 years. | 4,236 | 4,149 | 4,130 | 4,152 | 4,161 | 4,132 | 4,072 | 4,164 | 4,086 | 3,992 | 3,946 | 3,878 | 3,703 |
| 20 to 24 years | 12,999 | 12,783 | 12,724 | 12,722 | 12,612 | 12,678 | 12,670 | 12,739 | 12,646 | 12,704 | 12,711 | 12,664 | 12,551 |
| 25 years and over | 97,809 | 97,946 | 98,122 | 98,345 | 98,594 | 98,547 | 98,722 | 98,803 | 98,836 | 99,285 | 99,458 | 99,312 | 99,415 |
| 25 to 54 years | 83,064 | 83,170 | 83,316 | 83,594 | 83,680 | 83,690 | 83,856 | 83,938 | 83,969 | 84,344 | 84,452 | 84,423 | 84,447 |
| 55 years and over ........... | 14,780 | 14,825 | 14,818 | 14,784 | 14,849 | 14,805 | 14,867 | 14,870 | 14,856 | 14,971 | 14,934 | 14,902 | 15,008 |
| Men, 16 years and over | 64,400 | 64,150 | 64,513 | 64,482 | 64,618 | 64,420 | 64,602 | 64,711 | 64,544 | 64,586 | 64,535 | 64,278 | 64,121 |
| 16 to 24 years | 10,275 | 10,070 | 10,211 | 10,123 | 10,128 | 10,091 | 10,071 | 10,110 | 10,018 | 9,992 | 9,883 | 9,775 | 9,556 |
| 16 to 19 years | 3,539 | 3,421 | 3,487 | 3,449 | 3,464 | 3,444 | 3,430 | 3,441 | 3,407 | 3,321 | 3,189 | 3,083 | 2,977 |
| 16 to 17 years | 1,372 | 1,280 | 1,357 | 1,329 | 1,308 | 1,298 | 1,315 | 1,317 | 1,270 | 1,224 | 1,166 | 1,106 | 1,047 |
| 18 to 19 years | 2,159 | 2,138 | 2,134 | 2,140 | 2,153 | 2,149 | 2,121 | 2,126 | 2,130 | 2,071 | 2,009 | 1,985 | 1,907 |
| 20 to 24 years | 6,736 | 6,649 | 6,724 | 6,674 | 6,664 | 6,647 | 6,640 | 6,669 | 6,611 | 6,671 | 6,694 | 6,692 | 6,579 |
| 25 years and over | 54,171 | 54,095 | 54,302 | 54,362 | 54,494 | 54,335 | 54,463 | 54,558 | 54,475 | 54,605 | 54,658 | 54,517 | 54,617 |
| 25 to 54 years .... | 45,708 | 45,696 | 45,829 | 45,938 | 46,048 | 45,832 | 46,013 | 46,081 | 46,041 | 46,099 | 46,106 | 46,033 | 46,052 |
| 55 years and over | 8,462 | 8,439 | 8,488 | 8,432 | 8,441 | 8,509 | 8,485 | 8,480 | 8,432 | 8,498 | 8,489 | 8,492 | 8,578 |
| Women, 16 years and over ................. | 53,150 | 53,269 | 53,072 | 53,354 | 53,270 | 53,443 | 53,433 | 53,623 | 53,571 | 53,764 | 53,854 | 53,674 | 53,537 |
| 16 to 24 years | 9,538 | 9,419 | 9,276 | 9,359 | 9,170 | 9,218 | 9,176 | 9,349 | 9,178 | 9,088 | 9,095 | 8,927 | 8,810 |
| 16 to 19 years | 3,275 | 3,285 | 3,276 | 3,311 | 3,222 | 3,187 | 3,146 | 3,279 | 3,144 | 3,056 | 3,078 | 2,955 | 2,838 |
| 16 to 17 years | 1,202 | 1,291 | 1,288 | 1,269 | 1,210 | 1,203 | 1,198 | 1,240 | 1,190 | 1,162 | 1,134 | 1,060 | 1,038 |
| 18 to 19 years | 2,077 | 2,011 | 1,996 | 2,012 | 2,008 | 1,983 | 1,951 | 2,038 | 1,956 | 1,921 | 1,937 | 1,893 | 1,796 |
| 20 to 24 years | 6,263 | 6,134 | 6,000 | 6,048 | 5,948 | 6,030 | 6,029 | 6,070 | 6,034 | 6,032 | 6,017 | 5,972 | 5,972 |
| 25 years and over | 43,638 | 43,851 | 43,820 | 43,983 | 44,100 | 44,212 | 44,259 | 44,245 | 44,361 | 44,679 | 44,800 | 44,796 | 44,798 |
| 25 to 54 years | 37,356 | 37,474 | 37,487 | 37,656 | 37,632 | 37,859 | 37,844 | 37,857 | 37,928 | 38,245 | 38,346 | 38,389 | 38,395 |
| 55 years and over ........................... | 6,318 | 6,386 | 6,330 | 6,352 | 6,408 | 6,296 | 6,382 | 6,390 | 6,424 | 6,472 | 6,444 | 6,410 | 6,430 |

## A-37. Unemployed persons by sex and age, seasonally adjusted

(In thousands)

| Sex and age | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| Total, 16 years and over ..................... | 6,520 | 6,604 | 6,563 | 6,652 | 6,658 | 6,535 | 6,594 | 6,495 | 6,770 | 6,653 | 6,447 | 6,814 | 7,003 |
| 16 to 24 years ......................................... | 2,437 | 2,426 | 2,428 | 2,472 | 2,428 | 2,299 | 2,294 | 2,274 | 2,425 | 2,349 | 2,171 | 2,316 | 2,387 |
| 16 to 19 years ....................................... | 1,187 | 1,188 | 1,186 | 1,220 | 1,203 | 1,121 | 1,138 | 1,126 | 1,130 | 1,169 | 1,030 | 1,174 | 1,168 |
| 16 to 17 years .................................... | 545 | 534 | 536 | 548 | 558 | 434 | 509 | 520 | 519 | 597 | 442 | 457 | 494 |
| 18 to 19 years ...................................... | 623 | 684 | 645 | 665 | 645 | 683 | 609 | 615 | 609 | 587 | 612 | 693 | 653 |
| 20 to 24 years ....................................... | 1,250 | 1,238 | 1,242 | 1,252 | 1,225 | 1,178 | 1.156 | 1,148 | 1,295 | 1,180 | 1,141 | 1,142 | 1,219 |
| 25 years and over .................................... | 4,069 | 4,197 | 4,144 | 4,188 | 4,242 | 4,279 | 4,304 | 4,237 | 4,347 | 4,245 | 4,266 | 4,456 | 4,617 |
| 25 to 54 years ...................................... | 3,568 | 3,701 | 3,652 | 3,688 | 3,744 | 3,780 | 3,781 | 3,727 | 3,864 | 3,832 | 3,850 | 3,958 | 4,028 |
| 55 years and over ................................ | 473 | 465 | 464 | 496 | 494 | 525 | 526 | 515 | 505 | 464 | 433 | 494 | 538 |
| Men, 16 years and over ...................... | 3,485 | 3,679 | 3,553 | 3,624 | 3,582 | 3,597 | 3,530 | 3,505 | 3,735 | 3,679 | 3,599 | 3,804 | 3,863 |
| 16 to 24 years .......................................... | 1,330 | 1,361 | 1,349 | 1,380 | 1,361 | 1,267 | 1,226 | 1,236 | 1,343 | 1,261 | 1,233 | 1,279 | 1,253 |
| 16 to 19 years ...................................... | 629 | 637 | 661 | 690 | 665 | 614 | 601 | 592 | 622 | 632 | 580 | 656 | 644 |
| 16 to 17 years | 295 | 311 | 308 | 312 | 319 | 214 | 259 | 267 | 281 | 318 | 228 | 249 | 287 |
| 18 to 19 years | 325 | 340 | 353 | 382 | 346 | 397 | 336 | 336 | 341 | 320 | 350 | 387 | 351 |
| 20 to 24 years | 701 | 724 | 688 | 690 | 696 | 653 | 625 | 644 | 721 | 629 | 653 | 623 | 609 |
| 25 years and over | 2,143 | 2,313 | 2,214 | 2,258 | 2,238 | 2,373 | 2,313 | 2,291 | 2,387 | 2,358 | 2,343 | 2,499 | 2,616 |
| 25 to 54 years | 1,821 | 1,978 | 1,919 | 1,967 | 1,917 | 2,079 | 2,018 | 1,997 | 2,099 | 2,089 | 2,066 | 2,173 | 2,234 |
| 55 years and over .................................. | 293 | 310 | 280 | 303 | 314 | 313 | 308 | 300 | 310 | 296 | 275 | 321 | 336 |
| Women, 16 years and over ................. | 3,035 | 2,925 | 3,010 | 3,028 | 3,076 | 2,938 | 3,064 | 2,990 | 3,034 | 2,975 | 2,848 | 3,010 | 3,140 |
| 16 to 24 years .......................................... | 1,107 | 1,065 | 1,079 | 1,092 | 1,067 | 1,032 | 1,069 | 1,038 | 1,082 | 1,087 | 938 | 1,037 | 1,134 |
| 16 to 19 years ...................................... | 558 | 551 | 525 | 530 | 538 | 507 | 537 | 534 | 508 | 537 | 450 | 518 | 524 |
| 16 to 17 years | 250 | 223 | 228 | 236 | 239 | 220 | 250 | 253 | 238 | 279 | 214 | 208 | 207 |
| 18 to 19 years ..................................... | 298 | 344 | 292 | 283 | 299 | 286 | 273 | 279 | 268 | 267 | 262 | 306 | 302 |
| 20 to 24 years | 549 | 514 | 554 | 562 | 529 | 525 | 532 | 504 | 574 | 550 | 488 | 519 | 610 |
| 25 years and over | 1,926 | 1,884 | 1,930 | 1,930 | 2,004 | 1,906 | 1,991 | 1,945 | 1,961 | 1,887 | 1,923 | 1,956 | 2,001 |
| 25 to 54 years ...................................... | 1,747 | 1,723 | 1,733 | 1,721 | 1,827 | 1,701 | 1,763 | 1,730 | 1,765 | 1,742 | 1,785 | 1,785 | 1,794 |
| 55 years and over ................................. | 180 | 155 | 184 | 193 | 180 | 212 | 218 | 216 | 195 | 169 | 158 | 173 | 203 |

A-38. Unemployment rates by sex and age, seasonally adjusted
(Civilian workers)

| Sex and age | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| Total, 16 years and over | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.2 | 5.4 | 5.3 | 5.2 | 5.5 | 5.6 |
| 16 to 24 years | 11.0 | 11.1 | 11.1 | 11.3 | 11.2 | 10.6 | 10.7 | 10.5 | 11.2 | 11.0 | 10.3 | 11.0 | 11.5 |
| 16 to 19 years | 14.8 | 15.0 | 14.9 | 15.3 | 15.2 | 14.5 | 14.8 | 14.4 | 14.7 | 15.5 | 14.1 | 16.3 | 16.7 |
| 16 to 17 years .................................. | 17.5 | 17.2 | 16.9 | 17.4 | 18.1 | 14.8 | 16.8 | 16.9 | 17.4 | 20.0 | 16.1 | 17.4 | 19.2 |
| 18 to 19 years ................................... | 12.8 | 14.2 | 13.5 | 13.8 | 13.4 | 14.2 | 13.0 | 12.9 | 13.0 | 12.8 | 13.4 | 15.2 | 15.0 |
| 20 to 24 years .... | 8.8 | 8.8 | 8.9 | 9.0 | 8.9 | 8.5 | 8.4 | 8.3 | 9.3 | 8.5 | 8.2 | 8.3 | 8.8 |
| 25 years and over ... | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 | 4.2 | 4.2 | 4.1 | 4.2 | 4.1 | 4.1 | 4.3 | 4.4 |
| 25 to 54 years ...... | 4.1 | 4.3 | 4.2 | 4.2 | 4.3 | 4.3 | 4.3 | 4.3 | 4.4 | 4.3 | 4.4 | 4.5 | 4.6 |
| 55 years and over ............................... | 3.1 | 3.0 | 3.0 | 3.2 | 3.2 | 3.4 | 3.4 | 3.3 | 3.3 | 3.0 | 2.8 | 3.2 | 3.5 |
| Men, 16 years and over ..................... | 5.1 | 5.4 | 5.2 | 5.3 | 5.3 | 5.3 | 5.2 | 5.1 | 5.5 | 5.4 | 5.3 | 5.6 | 5.7 |
| 16 to 24 years. | 11.5 | 11.9 | 11.7 | 12.0 | 11.8 | 11.2 | 10.9 | 10.9 | 11.8 | 11.2 | 11.1 | 11.6 | 11.6 |
| 16 to 19 years | 15.1 | 15.7 | 15.9 | 16.7 | 16.1 | 15.1 | 14.9 | 14.7 | 15.4 | 16.0 | 15.4 | 17.5 | 17.8 |
| 16 to 17 years... | 17.7 | 19.5 | 18.5 | 19.0 | 19.6 | 14.2 | 16.5 | 16.9 | 18.1 | 20.6 | 16.4 | 18.4 | 21.5 |
| 18 to 19 years... | 13.1 | 13.7 | 14.2 | 15.1 | 13.8 | 15.6 | 13.7 | 13.6 | 13.8 | 13.4 | 14.8 | 16.3 | 15.5 |
| 20 to 24 years. | 9.4 | 9.8 | 9.3 | 9.4 | 9.5 | 8.9 | 8.6 | 8.8 | 9.8 | 8.6 | 8.9 | 8.5 | 8.5 |
| 25 years and over. | 3.8 | 4.1 | 3.9 | 4.0 | 3.9 | 4.2 | 4.1 | 4.0 | 4.2 | 4.1 | 4.1 | 4.4 | 4.6 |
| 25 to 54 years .... | 3.8 | 4.1 | 4.0 | 4.1 | 4.0 | 4.3 | 4.2 | 4.2 | 4.4 | 4.3 | 4.3 | 4.5 | 4.6 |
| 55 years and over | 3.3 | 3.5 | 3.2 | 3.5 | 3.6 | 3.6 | 3.5 | 3.4 | 3.5 | 3.4 | 3.1 | 3.6 | 3.8 |
| Women, 16 years and over ................. | 5.4 | 5.2 | 5.4 | 5.4 | 5.5 | 5.2 | 5.4 | 5.3 | 5.4 | 5.2 | 5.0 | 5.3 | 5.5 |
| 16 to 24 years | 10.4 | 10.2 | 10.4 | 10.4 | 10.4 | 10.1 | 10.4 | 10.0 | 10.5 | 10.7 | 9.3 | 10.4 | 11.4 |
| 16 to 19 years .................................... | 14.6 | 14.4 | 13.8 | 13.8 | 14.3 | 13.7 | 14.6 | 14.0 | 13.9 | 14.9 | 12.8 | 14.9 | 15.6 |
| 16 to 17 years ................................... | 17.2 | 14.7 | 15.0 | 15.7 | 16.5 | 15.5 | 17.3 | 16.9 | 16.7 | 19.4 | 15.9 | 16.4 | 16.6 |
| 18 to 19 years .................................... | 12.5 | 14.6 | 12.8 | 12.3 | 13.0 | 12.6 | 12.3 | 12.0 | 12.1 | 12.2 | 11.9 | 13.9 | 14.4 |
| 20 to 24 years .................................... | 8.1 | 7.7 | 8.5 | 8.5 | 8.2 | 8.0 | 8.1 | 7.7 | 8.7 | 8.4 | 7.5 | 8.0 | 9.3 |
| 25 years and over ................................ | 4.2 | 4.1 | 4.2 | 4.2 | 4.3 | 4.1 | 4.3 | 4.2 | 4.2 | 4.1 | 4.1 | 4.2 | 4.3 |
| 25 to 54 years .................................... | 4.5 | 4.4 | 4.4 | 4.4 | 4.6 | 4.3 | 4.5 | 4.4 | 4.4 | 4.4 | 4.4 | 4.4 | 4.5 |
| 55 years and over ................................. | 2.8 | 2.4 | 2.8 | 2.9 | 2.7 | 3.3 | 3.3 | 3.3 | 2.9 | 2.5 | 2.4 | 2.6 | 3.1 |

A-39. Selected unemployment indicators, seasonally adjusted

| Category | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| CHARACTERISTIC |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total (all civilian workers) | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.2 | 5.4 | 5.3 | 5.2 | 5.5 | 5.6 |
| Men, 20 years and over | 4.5 | 4.8 | 4.5 | 4.6 | 4.6 | 4.7 | 4.6 | 4.5 | 4.8 | 4.7 | 4.7 | 4.9 | 5.0 |
| Women, 20 years and over ......................................... | 4.7 | 4.5 | 4.8 | 4.8 | 4.8 | 4.6 | 4.8 | 4.7 | 4.8 | 4.6 | 4.5 | 4.7 | 4.9 |
| Both sexes, 16 to 19 years ............................................... | 14.8 | 15.0 | 14.9 | 15.3 | 15.2 | 14.5 | 14.8 | 14.4 | 14.7 | 15.5 | 14.1 | 16.3 | 16.7 |
| White | 4.5 | 4.5 | 4.5 | 4.5 | 4.6 | 4.5 | 4.6 | 4.5 | 4.8 | 4.6 | 4.5 | 4.6 | 4.8 |
| Black and other ............................................................... | 9.7 | 10.2 | 10.2 | 10.3 | 10.2 | 10.1 | 9.2 | 9.4 | 9.1 | 9.3 | 9.4 | 10.3 | 10.4 |
| Black ....................................................................... | 11.2 | 11.7 | 11.7 | 11.9 | 11.8 | 11.3 | 10.5 | 10.6 | 10.4 | 10.4 | 10.4 | 11.3 | 11.8 |
| Hispanic origin .................................................................. | 8.8 | 8.3 | 8.0 | 8.0 | 8.5 | 7.1 | 7.8 | 7.7 | 8.0 | 7.7 | 7.1 | 7.9 | 7.8 |
| Married men, spouse present ............................................. | 3.1 | 3.3 | 3.0 | 3.1 | 3.0 | 3.4 | 3.0 | 3.2 | 3.3 | 3.3 | 3.2 | 3.3 | 3.5 |
| Married women, spouse present .......................................... | 3.9 | 3.8 | 3.9 | 3.8 | 3.9 | 3.7 | 3.8 | 3.6 | 3.5 | 3.5 | 3.7 | 3.5 | 3.9 |
| Women who maintain families ............................................ | 8.0 | 7.7 | 7.8 | 8.2 | 8.1 | 7.5 | 7.5 | 8.4 | 7.5 | 7.4 | 8.0 | 8.5 | 8.5 |
| Full-time workers | 4.9 | 5.0 | 4.9 | 5.0 | 5.0 | 5.0 | 4.9 | 4.9 | 5.1 | 4.9 | 4.8 | 5.0 | 5.2 |
| Part-time workers | 7.1 | 7.3 | 7.1 | 7.4 | 7.5 | 7.0 | 7.4 | 7.2 | 7.1 | 7.4 | 7.6 | 8.1 | 7.9 |
| Unemployed 15 weeks and over' | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.3 |
| Labor force time lost' ............................................... | 6.0 | 6.0 | 5.9 | 5.9 | 6.0 | 6.0 | 5.9 | 5.9 | 6.2 | 6.0 | 5.9 | 6.0 | 6.3 |
| INDUSTRY |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonagricultural private wage and salary workers ................... | 5.4 | 5.4 | 5.3 | 5.4 | 5.4 | 5.5 | 5.5 | 5.5 | 5.7 | 5.5 | 5.3 | 5.5 | 5.7 |
| Goods-producing industries ............................................. | 6.3 | 6.3 | 6.2 | 6.3 | 6.5 | 6.7 | 6.6 | 6.6 | 6.9 | 6.7 | 5.9 | 6.6 | 6.9 |
| Mining ......................................................................... | 6.4 | 8.4 | 4.8 | 6.2 | 4.4 | 6.8 | 4.8 | 5.9 | 4.6 | 3.3 | 3.6 | 4.4 | 4.9 |
| Construction ................................................................. | 10.2 | 10.1 | 9.3 | 9.8 | 9.8 | 9.3 | 8.9 | 10.0 | 10.6 | 11.5 | 9.7 | 10.2 | 11.1 |
| Manufacturing .............................................................. | 5.2 | 5.2 | 5.4 | 5.4 | 5.6 | 5.9 | 5.9 | 5.5 | 5.9 | 5.4 | 4.9 | 5.7 | 5.8 |
| Durable goods ... | 4.9 | 4.9 | 5.2 | 5.4 | 5.4 | 5.8 | 5.5 | 5.3 | 5.7 | 5.5 | 4.9 | 5.6 | 5.9 |
| Nondurable goods ..................................................... | 5.7 | 5.5 | 5.6 | 5.3 | 5.9 | 5.9 | 6.4 | 5.9 | 6.3 | 5.2 | 5.0 | 5.7 | 5.6 |
| Service-producing industries ............................................ | 4.9 | 5.0 | 4.9 | 5.0 | 4.9 | 5.0 | 5.0 | 5.0 | 5.1 | 5.0 | 5.0 | 5.0 | 5.2 |
| Transportation and public utilities ................................... | 3.7 | 4.5 | 3.9 | 3.6 | 3.4 | 4.3 | 4.0 | 3.4 | 4.3 | 3.2 | 3.0 | 3.7 | 4.1 |
| Wholesale and retail trade ............................................ | 6.0 | 5.9 | 5.9 | 6.4 | 6.3 | 6.2 | 6.0 | 6.2 | 6.2 | 6.3 | 6.2 | 6.0 | 6.2 |
| Finance and service industries ....................................... | 4.4 | 4.5 | 4.3 | 4.3 | 4.2 | 4.3 | 4.4 | 4.5 | 4.5 | 4.4 | 4.5 | 4.5 | 4.7 |
| Government workers ........................................................ | 2.7 | 2.8 | 2.7 | 2.7 | 2.6 | 2.4 | 2.5 | 2.3 | 2.1 | 2.5 | 2.9 | 2.8 | 2.8 |
| Agricultural wage and salary workers ................................... | 9.0 | 7.8 | 9.8 | 12.1 | 9.7 | 9.2 | 9.3 | 10.1 | 11.0 | 7.9 | 10.0 | 10.6 | 9.7 |

${ }^{1}$ Unemployment as a percent of the civilian labor force.
${ }^{2}$ Aggregate hours lost by the unemployed and persons on part time
for economic reasons as a percent of potentially available labor force hours.

## A-40. Unemployed persons by duration of unemployment, seasonally adjusted

(Numbers in thousands)

| Weeks of unemployment | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| DURATION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Less than 5 weeks | 3,125 | 3,169 | 3,166 | 3,258 | 3,302 | 3,119 | 3,159 | 3,194 | 3,204 | 3,026 | 3,046 | 3,120 | 3,325 |
| 5 to 14 weeks ........ | 2,002 | 2,030 | 1,995 | 1,991 | 2,013 | 2,012 | 2,079 | 2,044 | 2,175 | 2,236 | 2,049 | 2,159 | 2,048 |
| 15 weeks and over | 1,338 | 1,359 | 1,378 | 1,422 | 1,362 | 1,430 | 1,369 | 1,333 | 1,386 | 1,374 | 1,406 | 1,513 | 1,609 |
| 15 to 26 weeks | 759 | 769 | 743 | 765 | 730 | 777 | 731 | 702 | 697 | 764 | 763 | 809 | 845 |
| 27 weeks and over ............................... | 579 | 590 | 635 | 657 | 632 | 653 | 638 | 631 | 688 | 610 | 643 | 704 | 764 |
| Average (mean) duration, in weeks .......... | 11.4 | 11.5 | 11.7 | 11.6 | 11.5 | 12.1 | 11.7 | 12.0 | 12.1 | 11.6 | 12.0 | 12.0 | 12.3 |
| Median duration, in weeks ....................... | 5.0 | 5.0 | 5.0 | 4.8 | 4.8 | 5.1 | 5.4 | 5.1 | 5.0 | 5.4 | 5.1 | 5.2 | 5.2 |
| 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 ............................... | 48.3 | 48.3 | 48.4 | 48.8 | 49.5 | 47.5 | 47.8 | 48.6 | 47.4 | 45.6 | 46.9 | 45.9 | 47.6 |
| 5 to 14 weeks ...................................... | 31.0 | 31.0 | 30.5 | 29.8 | 30.1 | 30.7 | 31.5 | 31.1 | 32.2 | 33.7 | 31.5 | 31.8 | 29.3 |
| 15 weeks and over. | 20.7 | 20.7 | 21.1 | 21.3 | 20.4 | 21.8 | 20.7 | 20.3 | 20.5 | 20.7 | 21.6 | 22.3 | 23.0 |
| 15 to 26 weeks.. | 11.7 | 11.7 | 11.4 | 11.5 | 10.9 | 11.8 | 11.1 | 10.7 | 10.3 | 11.5 | 11.7 | 11.9 | 12.1 |
| 27 weeks and over ............................. | 9.0 | 9.0 | 9.7 | 9.8 | 9.5 | 9.9 | 9.7 | 9.6 | 10.2 | 9.2 | 9.9 | 10.4 | 10.9 |

## A-41. Unemployed persons by reason for unemployment, seasonally adjusted

(Numbers in thousands)

| Reasons for unemployment | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. |
| NUMBER OF UNEMPLOYED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers | 2,964 | 2,932 | 2,979 | 3,092 | 3,097 | 3,183 | 3,103 | 3,038 | 3,147 | 3,171 | 3,151 | 3,088 | 3,367 |
| On layoff | 865 | 852 | 780 | 969 | 957 | 1,033 | 964 | 941 | 999 | 979 | 918 | 960 | 973 |
| Other job losers .................................... | 2,099 | 2,080 | 2,199 | 2,123 | 2,140 | 2,150 | 2,139 | 2,097 | 2,148 | 2,192 | 2,233 | 2,128 | 2,394 |
| Job leavers .... | 1,031 | 1,034 | 994 | 1,049 | 1,055 | 1,016 | 1,006 | 1,014 | 1,179 | 1,014 | 995 | 1,027 | 984 |
| Reentrants | 1,772 | 1,920 | 1,890 | 1,845 | 1,853 | 1,730 | 1,805 | 1,859 | 1,780 | 1,820 | 1,789 | 1,960 | 1,879 |
| New entrants ......................................... | 643 | 648 | 685 | 695 | 686 | 640 | 680 | 644 | 617 | 683 | 534 | 687 | 677 |
| 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 | 46.2 | 44.9 | 45.5 | 46.3 | 46.3 | 48.5 | 47.1 | 46.3 | 46.8 | 47.4 | 48.7 | 45.7 | 48.7 |
| On layoff ............................................. | 13.5 | 13.0 | 11.9 | 14.5 | 14.3 | 15.7 | 14.6 | 14.4 | 14.9 | 14.6 | 14.2 | 14.2 | 14.1 |
| Other job losers ................................... | 32.7 | 31.8 | 33.6 | 31.8 | 32.0 | 32.7 | 32.4 | 32.0 | 31.9 | 32.8 | 34.5 | 31.5 | 34.7 |
| Job leavers ............................................. | 16.1 | 15.8 | 15.2 | 15.7 | 15.8 | 15.5 | 15.3 | 15.5 | 17.5 | 15.2 | 15.4 | 15.2 | 14.3 |
| Reentrants ............................................. | 27.6 | 29.4 | 28.9 | 27.6 | 27.7 | 26.3 | 27.4 | 28.4 | 26.5 | 27.2 | 27.7 | 29.0 | 27.2 |
| New entrants | 10.0 | 9.9 | 10.5 | 10.4 | 10.3 | 9.7 | 10.3 | 9.8 | 9.2 | 10.2 | 8.3 | 10.2 | 9.8 |
| UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers .............................................. | 2.4 | 2.4 | 2.4 | 2.5 | 2.5 | 2.6 | 2.5 | 2.4 | 2.5 | 2.5 | 2.5 | 2.5 | 2.7 |
| Job leavers ............................................ | . 8 | . 8 | . 8 | . 8 | . 8 | . 8 | . 8 | . 8 | . 9 | . 8 | . 8 | . 8 | . 8 |
| Reentrants .............................................. | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.4 | 1.6 | 1.5 |
| New entrants ........................................... | . 5 | . 5 | . 6 | . 6 | . 6 | . 5 | . 5 | . 5 | . 5 | . 5 | . 4 | . 6 | . 5 |

B-1. Employees on nonfarm payrolls by major industry, 1938 to date
(In thousands)

| Year and month | Total | Total private | Goods-producing |  |  |  | Service-producing |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Transpor |  |  | Finance, |  |  | vernme |  |
|  |  |  | Total | Mining | Construction | Manufacturing | Total | and public utilities | sale trade | Retail trade | and <br> real estate | Services | Federal | State | Local |
|  | Annual averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 29,19430,603 | 25,31126,608 | 11,401 | 891854 | 1,070 | 9,440 | 17,793 | 2,883 | (1) | (') |  | ${ }^{(1)}$ | (') | (') | (') |
|  |  |  | 12,297 |  | 1,185 | 10,278 | 18,306 | 2,936 | 1,767 | 4,659 | $1,447$ | 3,502 | 905 | (1) | () |
| 1940 |  | 28,159 | 13,221 | 925 | 1,311 | 10,985 | 19,140 | 3,038 | 1,841 | 4,909 | 1,485 | 3,665 | 996 | ${ }^{(1)}$ | () |
| 1941 .. | $36,539$ | 31,877 | 15,983 | 957 | 1,814 | 13,192 | 20,574 | 3,274 | 1,966 | 5,244 | 1,525 | 3,905 | 1,340 | ${ }^{(1)}$ | ( ${ }^{(1)}$ |
| 1942 | 40,108 | 34,624 | 18,470 | 992 | 2,198 | 15,280 | 21,636 | 3,460 | 1,912 | 5,206 | 1,509 | 4,066 | 2,213 | ${ }^{(1)}$ | (1) |
| 1943 | 42,434 | 36,356 | 20,114 | 925 | 1,587 | 17,602 | 22,320 | 3,647 | 1,828 | 5,154 | 1,481 | 4,130 | 2,905 | ${ }^{(1)}$ | (') |
| 1944 |  | 35,822 | 19,328 | 892 | 1,108 | 17,328 | 22,536 | 3,829 | 1,851 | 5,208 | 1,481 | 4,145 | 2,928 | (1) | (1) |
| 1945 |  | 34,431 | 17,507 | 838 | 1,147 | 15,524 | 22,867 | 3,906 | 1,955 | 5,359 | 1,481 | 4,222 | 2,808 | (1) | (1) |
| 1946 | $\begin{aligned} & 40,374 \\ & 41,652 \end{aligned}$ | 36,056 | 17,248 | 862 | 1,683 | 14,703 | 24,404 | 4,061 | 2,298 | 6,077 | 1,675 | 4,697 | 2,254 | (1) | (1) |
| 1947 | $\begin{aligned} & 43,857 \\ & 44,886 \end{aligned}$ | 38,382 | 18,509 | 955 | 2,009 | 15,545 | 25,348 | 4,166 | 2,478 | 6,477 | 1,728 | 5,025 | 1,892 | (1) | (') |
| 1948 |  | 39,216 | 18,774 | 994 | 2,198 | 15,582 | 26,092 | 4,189 | 2,612 | 8,659 | 1,800 | 5,181 | 1,863 | (1) | (') |
| 1949 | $\begin{aligned} & 44,886 \\ & 43,754 \end{aligned}$ | 37,897 | 17,565 | 930 | 2,194 | 14,441 | 28,189 | 4,001 | 2,610 | 8,654 | 1,828 | 5,239 | 1,908 | (1) | (1) |
| 1950. | $\begin{aligned} & 45,197 \\ & 47,819 \end{aligned}$ | 39,170 | 18,506 | 901 | 2,364 | 15,241 | 26,691 | 4,034 | 2,643 | 6,743 | 1,888 | 5,356 | 1,928 | ${ }^{(1)}$ | (1) |
| 1951 |  | 41,430 | 19,959 | 929 | 2,637 | 16,393 | 27,860 | 4,226 | 2,735 | 7,007 | 1,956 | 5,547 | 2,302 | ${ }^{(1)}$ | (1) |
| 1952 | $\begin{aligned} & 47,819 \\ & 48,793 \end{aligned}$ | 42,185 | 20,198 | 898 | 2,668 | 16,632 | 28,595 | 4,248 | 2,821 | 7,184 | 2,035 | 5,699 | 2,420 | ${ }^{(1)}$ | ${ }^{(1)}$ |
| 1953 | 50,202 | 43,556 | 21,074 | 866 | 2,659 | 17,549 | 29,128 | 4,290 | 2,862 | 7,385 | 2,111 | 5,835 | 2,305 | $\left.{ }^{1}\right)$ | ${ }^{(1)}$ |
| 1954 | 48,990 | 42,238 | 19,751 | 791 | 2,646 | 16,314 | 29,239 | 4,084 | 2,875 | 7,360 | 2,200 | 5,969 | 2,188 | (1) | (') |
| 1955 | 50,641 | 43,727 | 20,513 | 792 | 2,839 | 16,882 | 30,128 | 4,141 | 2,934 | 7,601 | 2,298 | 8,240 | 2,187 | 1,168 | 3,558 |
| 1956 | $\begin{aligned} & \mathbf{5 2 , 3 6 9} \\ & \mathbf{5 2 , 8 5 3} \end{aligned}$ | 45,091 | 21,104 | 822 | 3,039 | 17,243 | 31,266 | 4,244 | 3,027 | 7,831 | 2,389 | 6,497 | 2,209 | 1,250 | 3,819 |
| 1957 |  | 45,239 | 20,964 | 828 | 2,962 | 17,174 | 31,889 | 4,241 | 3,037 | 7,848 | 2,438 | 6,708 | 2,217 | 1,328 | 4,071 |
| 1958 | 52,853 <br> 51,324 <br> 53,268 | 43,483 | 19,513 | 751 | 2,817 | 15,945 | 31,811 | 3,978 | 2,989 | 7,781 | 2,481 | 8,765 | 2,191 | 1,415 | 4,232 |
| $1959{ }^{2}$............................ |  | 45,186 | 20,411 | 732 | 3,004 | 16,675 | 32,857 | 4,011 | 3,092 | 8,035 | 2,549 | 7,087 | 2,233 | 1,484 | 4,366 |
| 1960 .. | 54,189 | 45,836 | 20,434 | 712 | 2,926 | 16,796 | 33,755 | 4,004 | 3,153 | 8,238 | 2,628 | 7,378 | 2,270 | 1,536 | 4,547 |
| 1961 | 53,999 | 45,404 | 19,857 | 672 | 2,859 | 16,326 | 34,142 | 3,903 | 3,142 | 8,195 | 2,688 | 7,619 | 2,279 | 1,607 | 4,708 |
| 1962 | 55,549 | 46,860 | 20,451 | 650 | 2,948 | 16,853 | 35,098 | 3,908 | 3,207 | 8,359 | 2,754 | 7,982 | 2,340 | 1,668 | 4,881 |
| 1963 | 56,653 | 47,429 | 20,640 | 635 | 3,010 | 16,995 | 36,013 | 3,903 | 3,258 | 8,520 | 2,830 | 8,277 | 2,358 | 1,747 | 5,121 |
| 1964 | 58,283 | 48,686 | 21,005 | 634 | 3,097 | 17,274 | 37,278 | 3,951 | 3,347 | 8,812 | 2,911 | 8,660 | 2,348 | 1,856 | 5,392 |
| 1965 | $\begin{aligned} & 60,765 \\ & 63,901 \end{aligned}$ | 50,689 | 21,926 | 632 | 3,232 | 18,062 | 38,839 | 4,036 | 3,477 | 9,239 | 2,977 | 9,038 | 2,378 | 1,996 | 5,700 |
| 1966 |  | 53,116 | 23,158 | 627 | 3,317 | 19,214 | 40,743 | 4,158 | 3,608 | 9,637 | 3,058 | 9,498 | 2,564 | 2,141 | 6,080 |
| 1967 | $\begin{aligned} & 63,901 \\ & 65,803 \end{aligned}$ | 54,413 | 23,308 | 613 | 3,248 | 19,447 | 42,495 | 4,268 | 3,700 | 9,906 | 3,185 | 10,045 | 2,719 | 2,302 | 6,371 |
| 1968 | $\begin{aligned} & 67,897 \\ & 70,384 \end{aligned}$ | 56,058 | 23,737 | 606 | 3,350 | 19,781 | 44,160 | 4,318 | 3,791 | 10,308 | 3,337 | 10,587 | 2,737 | 2,442 | 6,6606,804 |
| 1969 ............................ |  | 58,189 | 24,361 | 619 | 3,575 | 20,167 | 46,023 | 4,442 | 3,919 | 10,785 | 3,512 | 11,169 | 2,758 | 2,533 |  |
| 1970 | 70,880 | 58,325 | 23,578 | 623 | 3,588 | 19,367 | 47,302 | 4,515 | 4,006 | 11,034 | 3,645 | 11,548 | 2,731 | 2,664 | 7,158 |
| 1971 | 71,214 | 58,331 | 22,935 | 609 | 3,704 | 18,623 | 48,278 | 4,478 | 4,014 | 11,338 | 3,772 | 11,797 | 2,696 | 2,747 | 7.437 |
| 1972 | 73,675 | 60,341 | 23,668 | 628 | 3,889 | 19,151 | 50,007 | 4,541 | 4,127 | 11,822 | 3,908 | 12,276 | 2,884 | 2,059 | 7,790 |
| 1973 | 76,790 | 63,058 | 24,893 | 642 | 4,097 | 20,154 | 51,897 | 4,656 | 4,291 | 12,315 | 4,048 | 12,857 | 2,663 | 2,923 | 8,146 |
| 1974 | 78,265 | 64,095 | 24,794 | 697 | 4,020 | 20,077 | 53,471 | 4,725 | 4,447 | 12,539 | 4,149 | 13,441 | 2,724 | 3,039 | 8,407 |
| 1975 | 76,945 | 62,259 | 22,600 | 752 | 3,525 | 18,323 | 54,345 | 4,542 | 4,430 | 12,830 | 4,185 | 13,892 | 2,748 | 3,179 | 8,758 |
| 1976 | 79,382 | 64,511 | 23,352 | 779 | 3,576 | 18,997 | 56,030 | 4,582 | 4,562 | 13,193 | 4,271 | 14,551 | 2,733 | 3,273 | 8,865 |
| 1977 | 82,471 | 67,344 | 24,346 | 813 | 3,851 | 19,682 | 58,125 | 4,713 | 4,723 | 13,792 | 4,467 | 15,302 | 2,727 | 3,377 | 9,023 |
| 1978 | 86,897 | 71,026 | 25,585 | 851 | 4,229 | 20,505 | 81,113 | 4,923 | 4,985 | 14,556 | 4,724 | 16,252 | 2,753 | 3,474 | 9,446 |
| 1979 ... | 89,823 | 73,876 | 26,461 | 958 | 4,463 | 21,040 | 63,363 | 5,136 | 5,221 | 14,972 | 4,975 | 17.112 | 2,773 | 3,541 | 9,633 |
| 1980 | 90,406 | 74,166 | 25,658 | 1,027 | 4,346 | 20,285 | 64,748 | 5,146 | 5,292 | 15,018 | 5,160 | 17,890 | 2,866 | 3,810 | 9,765 |
| 1981 | 91,156 | 75,126 | 25,497 | 1,139 | 4,188 | 20,170 | 65,659 | 5,165 | 5,376 | 15,172 | 5,298 | 18,619 | 2,772 | 3,840 | 9,619 |
| 1982 | 89,566 | 73,729 | 23,813 | 1,128 | 3,905 | 18,781 | 65,753 | 5,082 | 5,296 | 15,161 | 5,341 | 19,036 | 2,739 | 3,640 | 9,458 |
| 1983 | 90,200 | 74,330 | 23,334 | 952 | 3,948 | 18,434 | 66,866 | 4,954 | 5,286 | 15,595 | 5,488 | 19,694 | 2,774 | 3,662 | 9,434 |
| 1984 | 94,496 | 78,472 | 24,727 | 966 | 4,383 | 19,378 | 69,789 | 5,159 | 5,574 | 16,526 | 5,889 | 20,797 | 2,807 | 3,734 | 9,482 |
| 1985 | 97,519 | 81,125 | 24,859 | 927 | 4,673 | 19,260 | 72,660 | 5,238 | 5,736 | 17,336 | 5,955 | 21,999 | 2,875 | 3,832 | 9,687 |
| 1986 | 99,525 | 82,832 | 24,558 | 777 | 4,818 | 18,965 | 74,967 | 5,255 | 5,774 | 17,909 | 6,283 | 23,053 | 2,899 | 3,893 | 9,901 |
| 1987 | 102,200 | 85,190 | 24,708 | 717 | 4,967 | 19,024 | 77,492 | 5,372 | 5,865 | 18,462 | 6,547 | 24,235 | 2,943 | 3,967 | 10,100 |
| 1988 ...................... | 105,538 | 88,150 | 25,173 | 713 | 5,110 | 19,350 | 80,383 | 5,527 | 6,055 | 19,077 | 6,649 | 25,669 | 2,971 | 4,076 | 10,339 |
| 1989 ...................... | 108,413 | 00,644 | 25,326 | 700 | 5,200 | 19,426 | 83,087 | 5,648 | 6,271 | 19,580 | 6,724 | 27,096 | 2,988 | 4,175 | 10,606 |
|  |  |  |  |  |  |  | nthly $d$ | soasone | adjusted |  |  |  |  |  |  |
| 1989: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| August ................. | 108,628 | 90,797 | 25,356 | 706 | 5,220 | 19,430 | 83,272 | 5,581 | 6,294 | 19,620 | 6,740 | 27,226 | 2,996 | 4,191 | 10,644 |
| September ........... | 108,868 108,980 | 90,985 | 25,304 | 709 | 5,225 | 19,370 | 83,564 | 5,656 | 6,303 | 19,634 | 6,753 | 27,335 | 2,992 | 4,215 | 10,876 |
| October ............... | $\begin{aligned} & 108,980 \\ & 109,245 \end{aligned}$ | 91,096 | 25,283 | 710 | 5,239 | 19,334 | 83,697 | 5,671 | 6,313 | 19,865 | 6,758 | 27,408 | 2,986 | 4,202 | 10,696 |
| November ............ |  | 91,344 | 25,280 | 716 | 5,258 | 19,308 | 83,965 | 5,893 | 6,335 | 19,714 | 6,774 | 27,548 | 2,962 | 4,212 | 10,707 |
| December .............. | $\begin{aligned} & 109,245 \\ & 109,383 \end{aligned}$ | 91,456 | 25,218 | 718 | 5,216 | 19,284 | 84,165 | 5,776 | 6,344 | 19,710 | 6,785 | 27,623 | 2,977 | 4,206 | 10,744 |
| 1990: <br> January | $109,654$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 91,656 | 25,188 | 723 | 5,294 | 19,171 | 84,466 | 5,790 | 6,358 | 19,807 | 6,794 | 27,721 | 3,000 | 4,225 | 10,773 |
| February ............... | $\begin{aligned} & 109,654 \\ & 109,958 \end{aligned}$ | 91,917 | 25,339 | 727 | 5,368 | 19,244 | 84,619 | 5,804 | 8,357 | 19,758 | 6,817 | 27,842 | 3,005 | 4,239 | 10,797 |
| March ................... | - 110,122 | 91,963 | 25,259 | 729 | 5,313 | 19,217 | 84,863 | 5,808 | 6,361 | 19,764 | 8,821 | 27,950 | 3,089 | 4,249 | 10,821 |
| April ..................... | 110,177 | 91,922 | 25,180 | 734 | 5,256 | 19,190 | 84,997 | 5,809 | 6,363 | 19,778 | 6,823 | 27,969 | 3,151 | 4,252 | 10,852 |
| May ..................... | $\begin{aligned} & 110,617 \\ & 110,829 \end{aligned}$ | 92,120 | 25,191 | 738 | 5,286 | 19,187 | 85,426 | 5,833 | 6,369 | 19,795 | 6,838 | 28,094 | 3,346 | 4,262 | 10,889 |
| June ..................... |  | 92,282 | 25,162 | 744 | 5,270 | 19,148 | 85,667 | 5,846 | 6,383 | 19,822 | 6,044 | 28,225 | 3,338 | 4,296 | 10,913 |
| July ${ }^{\text {e }}$................... | $\begin{aligned} & 110,829 \\ & 110,740 \\ & 110,665 \end{aligned}$ | 92,291 | 25,100 | 743 | 5,231 | 19,126 | 85,640 | 5,840 | 6,377 | 19,847 | 6,843 | 28,284 | 3,161 | 4,310 | 10,978 |
| August ${ }^{\text {¢ }}$................ |  | 92,279 | 25,008 | 736 | 5,191 | 19,081 | 85,657 | 5,849 | 6,383 | 19,831 | 6,852 | 28,356 | 3,038 | 4,332 | 11,016 |
| ${ }^{1}$ Not available. <br> 2 Data include Alaska and Hawaii beginning in 1959. This inclusion resulted in an increase of $\mathbf{2 1 2 , 0 0 0}$ ( 0.4 percent) in the nonfarm total for the March 1959 benchmark month. <br> ${ }^{\mathrm{P}}=$ preliminary. <br> NOTE: Data in this table have been revised to reflect March 1989 benchmarks, conversion to the 1987 Standard Industrial Classification (SIC) system, and updated seasonal adjustment factors. See the articte in this issue for additional information. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED

## B-2. Employees on nonfarm payrolls by detailed industry

(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| Total |  | 108,241 | 108,366 | 111,774 | 110,478 | 110,346 | - | - | - | - | - |
| Total private .. |  | 91,397 | 91,636 | 93,150 | 93,000 | 93,104 | 74,150 | 74,398 | 75,590 | 75,428 | 75,511 |
| Mining ........................................................................... |  | 689 | 718 | 748 | 750 | 749 | 486 | 515 | 539 | 540 | 538 |
| Metal mining | 10 | 58.8 | 59.0 | 62.6 | 62.8 | - | 46.7 | 46.8 | 49.6 | 49.9 | - |
| Iron ores | 101 | 8.1 | 8.1 | 8.6 | 8.8 | - | 6.7 | 6.7 | 7.1 | 7.3 | - |
| Copper ores ............................................................... | 102 | 14.0 | 14.0 | 15.3 | 14.7 | - | 11.1 | 11.2 | 12.4 | 12.0 | - |
| Coal mining | 12 | 125.2 | 151.3 | 157.4 | 156.2 | - | 96.8 | 121.8 | 127.8 | 126.1 | - |
| Bituminous coai and lignite mining ............................... | 122 | 115.6 | 141.5 | 146.7 | 145.9 | - | 89.1 | 113.9 | 119.1 | 117.8 | - |
| Oil and gas extraction | 13 | 388.0 | 390.8 | 412.1 | 415.2 | 413.5 | 252.8 | 255.9 | 273.4 | 275.9 | - |
| Crude petroleum and natural gas | 131 | 196.0 | 195.1 | 195.2 | 196.3 | - | 95.0 | 94.3 | 94.4 | 94.8 | - |
| Oil and gas field services ............................................ | 138 | 187.5 | 191.1 | 213.0 | 215.1 | - | 154.3 | 158.0 | 176.0 | 178.1 | - |
| Nonmetallic minerals, except fuels | 14 | 117.4 | 116.9 | 116.1 | 116.0 | - | 90.0 | 90.0 | 88.6 | 88.4 | - |
| Crushed and broken stone | 142 | 43.3 | 43.0 | 42.9 | 42.8 | - | 34.3 | 34.2 | 33.6 | 33.3 | - |
| Sand and gravel. | 144 | 38.1 | 38.1 | 36.8 | 37.1 | - | - | - | - | - | - |
| Chemical and fertilizer minerals | 147 | 16.7 | 16.6 | 16.7 | 16.5 | - | - | - | - | - | - |
| Construction ................................................................. |  | 5,510 | 5,567 | 5,470 | 5,534 | 5,534 | 4,348 | 4,408 | 4,292 | 4,352 | 4,352 |
| General building contractors | 15 | 1,405.6 | 1,422.6 | 1,375.5 | 1,386.3 | 1,378.6 | 1,037.4 | 1,054.7 | 1,007.2 | 1,018.2 | - |
| Residential building construction .................................. | 152 | 726.0 | 733.9 | 703.7 | 707.7 | - | 523.4 | 531.6 | 500.8 | 505.0 | - |
| Operative builders .. | 153 | 42.7 | 43.1 | 38.8 | 39.0 | - | 19.2 | 19.3 | 16.6 | 16.8 | - |
| Nonresidential building construction ............................. | 154 | 636.9 | 645.6 | 633.0 | 639.6 | - | 494.8 | 503.8 | 489.8 | 496.4 | - |
| Heavy construction, except building ............................... | 16 | 847.0 | 858.9 | 860.1 | 866.0 | - | 713.6 | 727.0 | 726.3 | 731.1 | - |
| Highway and street construction | 161 | 279.6 | 282.4 | 284.7 | 293.0 | - | 235.1 | 238.0 | 242.4 | 250.0 | - |
| Heavy construction, except highway ............................ | 162 | 567.4 | 576.5 | 575.4 | 573.0 | - | 478.5 | 489.0 | 483.9 | 481.1 | - |
| Special trade contractors | 17 | 3,257.3 | 3,285.4 | 3,234.2 | 3,281.8 | - | 2,596.7 | 2,625.8 | 2,558.2 | 2,603.1 | - |
| Plumbing, heating, and air conditioning ......................... | 171 | 674.5 | 674.1 | 659.1 | 668.5 | - | 501.3 | 501.7 | 484.8 | 493.1 | - |
| Painting and paper hanging ........................................ | 172 | 190.5 | 192.7 | 183.9 | 190.1 | - | 160.3 | 163.2 | 154.5 | 159.8 | - |
| Electrical work ................... | 173 | 567.3 | 572.5 | 570.2 | 581.5 | - | 441.8 | 447.3 | 442.7 | 454.4 | - |
| Masonry, stonework, and plastering | 174 | 531.1 | 536.9 | 541.2 | 552.3 | - | 459.2 | 464.5 | 467.7 | 477.6 | - |
| Carpentry and floor work | 175 | 215.1 | 218.9 | 194.9 | 194.0 | - | 171.4 | 174.9 | 147.8 | 147.8 | - |
| Roofing, siding, and sheet metal work .......................... | 176 | 226.9 | 232.5 | 222.2 | 227.1 | - | 183.3 | 188.3 | 177.8 | 182.8 | - |
| Manufacturing |  | 19,368 | 19,519 | 19,256 | 19,064 | 19,168 | 13,169 | 13,324 | 13,090 | 12,917 | 13,030 |
| Durable goods . |  | 11,368 | 11,412 | 11,267 | 11,122 | 11,121 | 7,543 | 7,592 | 7,494 | 7,361 | 7,372 |
| Lumber and wood products ........................................ | 24 | 770.6 | 771.8 | 758.4 | 756.6 | 755.7 | 639.6 | 640.5 | 626.1 | 625.0 | 624.8 |
| Logging . | 241 | 92.4 | 92.7 | 89.3 | 91.9 | - | 76.9 | 77.3 | 74.2 | 76.8 | - |
| Sawmills and planing mills ........................................ | 242 | 204.1 | 203.9 | 201.9 | 201.0 | - | 178.5 | 178.2 | 176.0 | 175.0 | - |
| Sawmills and planing mills, general .......................... | 2421 | 165.6 | 164.9 | 163.4 | 162.8 | - | 145.0 | 144.2 | 142.2 | 141.5 | - |
| Hardwood dimension and flooring mills ................... | 2426 | 35.2 | 35.7 | 35.4 | 34.9 | - | 30.8 | 31.3 | 31.2 | 30.7 | - |
| Millwork, plywood, and structural members | 243 | 274.7 | 274.2 | 270.6 | 268.1 | - | 223.8 | 223.7 | 218.6 | 216.6 | - |
| Millwork.. | 2431 | 111.4 | 111.1 | 110.1 | 108.6 | - | 88.5 | 88.5 | 86.7 | 85.4 | - |
| Wood kitchen cabinets. | 2434 | 73.5 | 73.3 | 74.0 | 72.9 | - | 58.8 | 58.6 | 58.9 | 58.2 | - |
| Hardwood veneer and plywood | 2435 | 24.3 | 24.3 | 24.0 | 23.6 | - | 21.1 | 21.1 | 20.6 | 20.3 | - |
| Softwood veneer and plywood ................................ | 2436 | 35.0 | 34.7 | 34.2 | 34.2 | - | 31.6 | 31.4 | 30.7 | 30.6 | - |
| Wood containers ............... | 244 | 45.3 | 45.1 | 45.0 | 44.9 | - | 38.5 | 38.1 | 38.0 | 38.0 | - |
| Wood buildings and mobile homes. | 245 | 67.1 | 67.9 | 64.9 | 65.3 | - | 51.1 | 51.5 | 49.0 | 49.4 | - |
| Mobile homes ....................................................... | 2451 | 44.2 | 45.0 | 44.0 | 44.9 | - | 36.3 | 36.8 | 35.6 | 36.5 | - |
| Miscellaneous wood products ................................... | 249 | 87.0 | 88.0 | 86.7 | 85.4 | - | 70.8 | 71.7 | 70.3 | 69.2 | - |

See footnotes at end of table.

## ESTABLISHMENT DATA EMPLOYMENT

B-2. Employees on nonfarm payrolls by detailed industry-Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Furniture and fixtures .......... | 25 | 518.8 | 522.0 | 514.1 | 501.8 | 510.5 | 410.9 | 415.7 | 406.3 | 395.5 | 403.0 |
| Household furniture | 251 | 295.2 | 297.3 | 292.6 | 282.3 | - | 248.3 | 250.4 | 244.4 | 235.1 | - |
| Wood household furniture | 2511 | 131.3 | 132.5 | 127.9 | 122.7 | - | 114.5 | 115.7 | 110.1 | 105.0 | - |
| Upholstered household furniture .............................. | 2512 | 98.7 | 99.8 | 100.4 | 98.3 | - | 82.3 | 83.2 | 83.7 | 82.1 | - |
| Metal household furniture ........ | 2514 | 22.6 | 21.6 | 23.0 | 21.0 | - | 17.6 | 16.7 | 18.4 | 16.5 | - |
| Mattresses and bedsprings | 2515 | 28.5 | 29.3 | 28.7 | 28.3 | - | 21.9 | 22.5 | 21.9 | 21.6 | - |
| Office furniture . | 252 | 72.9 | 71.6 | 68.2 | 68.3 | - | 53.2 | 53.2 | 50.7 | 50.9 | - |
| Public building and related furniture | 253 | 32.2 | 33.3 | 32.2 | 30.4 | - | 25.1 | 26.3 | 25.0 | 23.3 | - |
| Partitions and fixtures | 254 | 81.6 | 82.6 | 84.0 | 84.0 | - | 59.2 | 60.3 | 60.7 | 60.9 | - |
| Miscellaneous furniture and fixtures ........................... | 259 | 36.9 | 37.2 | 37.1 | 36.8 | - | 25.1 | 25.5 | 25.5 | 25.3 | - |
| Stone, clay, and glass products | 32 | 578.6 | 578.9 | 567.7 | 561.8 | 561.5 | 453.1 | 453.4 | 443.3 | 437.2 | 437.0 |
| Flat glass | 321 | 16.8 | 16.9 | 16.5 | 16.5 | - | 13.6 | 13.6 | 13.0 | 13.1 | - |
| Glass and glassware, pressed or blown ..................... | 322 | 86.8 | 87.2 | 85.4 | 83.9 | - | 74.8 | 75.2 | 73.7 | 71.9 | - |
| Glass containers ................................................... | 3221 | 43.2 | 43.6 | 42.8 | 42.2 | - | 39.2 | 39.6 | 38.6 | 37.9 | - |
| Pressed and blown glass, nec | 3229 | 43.6 | 43.6 | 42.6 | 41.7 | - | 35.6 | 35.6 | 35.1 | 34.0 | - |
| Products of purchased glass | 323 | 57.2 | 57.7 | 55.1 | 54.0 | - | 44.0 | 44.5 | 42.3 | 41.0 | - |
| Cement, hydraulic .................................................... | 324 | 19.5 | 19.3 | 19.4 | 19.5 | - | 15.0 | 14.8 | 14.9 | 15.0 | - |
| Structural clay products | 325 | 38.1 | 38.1 | 37.5 | 36.9 | - | 29.7 | 29.4 | 29.1 | 28.5 | - |
| Pottery and related products ..................................... | 326 | 40.5 | 40.5 | 39.9 | 38.8 | - | 32.0 | 32.3 | 31.4 | 30.6 | - |
| Concrete, gypsum, and plaster products ..................... | 327 | 222.1 | 221.5 | 216.1 | 215.1 | - | 171.3 | 170.8 | 165.9 | 165.0 | - |
| Concrete block and brick | 3271 | 20.8 | 20.8 | 20.1 | 19.8 | - | 13.5 | 13.6 | 13.3 | 13.0 | - |
| Concrete products, nec | 3272 | 75.0 | 74.7 | 72.0 | 71.5 | - | 57.3 | 57.0 | 54.1 | 53.9 | - |
| Ready-mixed concrete . | 3273 | 106.8 | 106.6 | 105.0 | 104.7 | - | 85.5 | 85.2 | 83.9 | 83.3 | - |
| Misc. nonmetallic mineral products ............................ | 329 | 83.6 | 83.7 | 83.1 | 82.8 | - | 61.9 | 62.0 | 61.8 | 61.4 | - |
| Abrasive products | 3291 | 22.2 | 22.1 | 21.7 | 21.6 | - | 15.9 | 15.8 | 15.4 | 15.3 | - |
| Asbestos products ................................................. | 3292 | 7.0 | 6.9 | 7.4 | 7.5 | - | 5.3 | 5.2 | 5.6 | 5.7 | - |
| Mineral wool ........................................................... | 3296 | 24.6 | 25.2 | 24.4 | 24.2 | - | - | - | - | - | - |
| Primary metal industries | 33 | 766.2 | 771.4 | 760.1 | 750.9 | 755.0 | 582.8 | 588.0 | 578.2 | 569.5 | 572.6 |
| Blast furnaces and basic steel products .................... | 331 | 280.9 | 279.6 | 272.2 | 272.0 | 273.0 | 216.4 | 215.6 | 209.0 | 208.2 | 208.3 |
| Blast furnaces and steel mills | 3312 | 211.6 | 210.8 | 204.4 | 204.5 | - | 164.5 | 164.2 | 158.5 | 157.9 | - |
| Steel pipe and tubes .............................................. | 3317 | 25.2 | 24.9 | 25.0 | 25.2 | - | 19.0 | 18.7 | 18.6 | 18.8 | - |
| Iron and steel foundries | 332 | 134.0 | 137.2 | 135.5 | 132.1 | - | 106.6 | 109.9 | 108.1 | 105.4 | - |
| Gray and ductile iron foundries | 3321 | 80.7 | 83.8 | 83.5 | 80.9 | - | 65.7 | 68.8 | 68.1 | 66.1 | - |
| Malleable iron foundries | 3322 | 8.9 | 8.9 | 9.0 | 8.2 | - | 6.8 | 6.9 | 6.9 | 6.2 | - |
| Steel foundries, nec | 3325 | 29.0 | 29.1 | 28.2 | 28.2 | - | 22.8 | 22.8 | 22.1 | 22.0 | - |
| Primary nonferrous metals | 333 | 46.3 | 46.0 | 46.0 | 46.2 | - | 34.3 | 34.1 | 33.6 | 33.9 | - |
| Primary aluminum | 3334 | 26.2 | 26.0 | 25.8 | 25.8 | - | 20.2 | 20.0 | 19.4 | 19.5 | - |
| Nonferrous rolling and drawing .................................. | 335 | 174.3 | 177.2 | 176.0 | 172.7 | - | 124.4 | 126.9 | 127.3 | 124.0 | - |
| Copper rolling and drawing ..................................... | 3351 | 23.8 | 24.1 | 23.2 | 22.6 | - | 18.1 | 18.5 | 17.7 | 17.1 | - |
| Aluminum sheet, plate, and foil | 3353 | 27.6 | 27.7 | 28.6 | 28.6 | - | 18.4 | 18.4 | 19.3 | 19.3 | - |
| Nonferrous wire drawing and insulating .............. | 3357 | 72.0 | 74.5 | 73.8 | 71.4 | - | 52.1 | 54.2 | 54.3 | 51.8 | - |
| Nonferrous foundries (castings) ................................. | 336 | 85.5 | 86.2 | 85.9 | 83.8 | - | 67.9 | 68.3 | 67.7 | 65.8 | - |
| Aluminum founderies ............................................ | 3365 | 24.8 | 25.5 | 23.9 | 23.1 | - | 19.6 | 20.3 | 18.9 | 18.0 | - |
| Fabricated metal products .............................................. | 34 | 1,431.0 | 1,436.8 | 1,423.2 | 1,403.4 | 1,411.4 | 1,055.6 | 1,062.6 | 1,050.8 | 1,032.7 | 1,041.2 |
| Metal cans and shipping containers .......................... | 341 | 53.5 | 53.3 | 53.2 | 53.0 | - | 46.1 | 46.1 | 45.6 | 45.4 | - |
| Metal cans ........................................................... | 3411 | 43.2 | 42.9 | 42.8 | 42.7 | - | 37.6 | 37.5 | 37.2 | 37.1 | - |
| Cutlery, handtools, and hardware .............................. | 342 | 130.2 | 129.8 | 129.2 | 127.4 | - | 95.6 | 95.5 | 94.8 | 92.9 | - |
| Hand and edge tools, and blades and handsaws ..... | 3423,5 | 44.1 | 44.3 | 44.5 | 44.0 | - | 32.1 | 32.4 | 32.6 | 32.2 | - |
| Hardware, nec ....................................................... | 3429 | 74.8 | 73.8 | 72.7 | 71.6 | - | 55.7 | 54.9 | 54.0 | 52.8 | - |
| Plumbing and heating, except electric ........................ | 343 | 62.7 | 62.7 | 62.7 | 60.5 | - | 45.2 | 45.2 | 44.9 | 42.8 | - |
| Plumbing fixture fittings and trim ... | 3432 | 27.3 | 27.3 | 27.4 | 26.6 | - | 20.2 | 20.3 | 20.4 | 19.8 | - |
| Heating equipment, except electric | 3433 | 21.8 | 22.5 | 21.5 | 21.9 | - | 14.7 | 15.3 | 14.2 | 14.6 | - |
| Fabricated structural metal products .......................... | 344 | 433.5 | 434.5 | 427.4 | 427.4 | - | 309.8 | 311.3 | 303.8 | 304.0 | - |
| Fabricated structural metal | 3441 | 77.8 | 77.7 | 77.2 | 76.8 | - | 55.8 | 56.0 | 55.3 | 55.4 | - |
| Metal doors, sash, and trim | 3442 | 78.9 | 78.8 | 76.9 | 77.5 | - | 57.8 | 58.2 | 56.0 | 56.7 | - |
| Fabricated plate work (boiler shops) ........................ | 3443 | 107.3 97.1 | 108.1 | 108.7 | 108.9 | - | 72.1 | 72.6 | 73.1 | 73.1 | - |
| Sheet metal work ............ | 3444 | 97.1 | 96.9 | 94.1 | 94.4 | - | 73.3 | 73.5 | 71.1 | 71.0 | - |
| Architectural metal work ..... | 3446 | 30.0 | 29.9 | 28.7 | 28.8 | - | 21.8 | 21.7 | 20.4 | 20.5 | - |

See footnotes at end of table.

ESTABLISHMENT DATA EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-2. Employees on nonfarm payrolls by detailed industry-Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{+}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Fabricated metal products-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Screw machine products, bolts, etc.. | 345 | 88.2 | 98.1 | 97.5 | 95.3 | - | 74.4 | 74.7 | 74.8 | 72.7 | - |
| Screw machine products .......... | 3451 | 46.9 | 46.9 | 47.0 | 46.2 | - | 37.9 | 38.2 | 38.1 | 37.4 |  |
| Bolts, nuts, rivets, and washers | 3452 | 51.3 | 51.2 | 50.5 | 49.1 | - | 36.5 | 36.5 | 36.7 | 35.3 | - |
| Metal forgings and stampings ..... | 346 | 222.4 | 226.1 | 226.7 | 220.5 | - | 175.9 | 179.0 | 179.8 | 174.2 | - |
| Iron and steel forgings ........ | 3462 | 32.6 | 31.8 | 32.1 | 31.3 | - | 25.1 | 24.4 | 24.6 | 23.8 | - |
| Automotive stampings | 3465 | 99.9 | 101.8 | 103.0 | 99.7 | - | 82.8 | 84.5 | 86.2 | 83.2 | - |
| Metal stampings, nec | 3469 | 77.3 | 79.8 | 79.3 | 77.4 | - | 58.4 | 60.4 | 59.9 | 58.1 | - |
| Metal services, nec ..... | 347 | 118.4 | 121.1 | 121.1 | 118.1 | - | 93.7 | 96.0 | 95.0 | 91.9 | - |
| Plating and polishing | 3471 | 75.4 | 78.2 | 77.5 | 75.0 | - | 60.2 | 62.6 | 61.1 | 58.6 | - |
| Metal coating and allied services | 3479 | 43.0 | 42.9 | 43.6 | 43.1 | - | 33.5 | 33.4 | 33.9 | 33.3 | - |
| Ordnance and accessories, nec ................................ | 348 | 74.8 | 74.1 | 68.4 | 68.4 | - | 44.6 | 44.4 | 42.8 | 43.4 | - |
| Ammunition, except for small arms, nec | 3483 | 43.7 | 43.4 | 38.9 | 38.9 | - | 22.9 | 23.0 | 21.7 | 22.2 | - |
| Miscellaneous fabricated metal products ................... | 349 | 237.3 | 237.1 | 237.0 | 232.8 | - | 170.3 | 170.4 | 169.3 | 165.4 | - |
| Valves and pipe fittings, nec ................................... | 3494 | 29.7 | 29.8 | 29.6 | 28.9 | - | 19.1 | 19.3 | 19.0 | 18.4 | - |
| Misc. fabricated wire products ................................ | 3496 | 54.0 | 54.4 | 54.9 | 53.5 | - | 41.0 | 41.2 | 41.5 | 40.2 | - |
| Industrial machinery and equipment | 35 | 2,128.8 | 2,124.8 | 2,116.2 | 2,096.8 | 2,087.4 | 1,279.5 | 1,276.0 | 1,274.7 | 1,256.7 | 1,248.1 |
| Engines and turbines ................................................ | 351 | 90.9 | 90.4 | 91.9 | 90.7 | - | 59.3 | 58.7 | 59.8 | 58.2 | - |
| Turbines and turbine generator sets ........................ | 3511 | 25.9 | 26.1 | 27.8 | 28.2 | - | 15.1 | 15.1 | 16.1 | 16.3 | - |
| Internal combustion engines, nec ............................. | 3519 | 65.0 | 64.3 | 64.1 | 62.5 | - | 44.2 | 43.6 | 43.7 | 41.9 | - |
| Farm and garden machinery ..................................... | 352 | 99.5 | 101.8 | 113.1 | 108.5 | - | 70.5 | 72.3 | 83.1 | 78.4 | - |
| Farm machinery and equipment | 3523 | 77.4 | 78.7 | 82.9 | 81.6 | - | 54.0 | 55.1 | 59.5 | 58.0 | - |
| Construction and related machinery | 353 | 222.4 | 221.3 | 227.3 | 226.6 | - | 136.0 | 135.3 | 140.1 | 140.1 | - |
| Construction machinery ... | 3531 | 84.0 | 82.7 | 84.8 | 84.1 | - | 52.7 | 51.7 | 52.6 | 52.2 | - |
| Mining machinery | 3532 | 16.3 | 16.6 | 17.3 | 17.3 | - | 10.0 | 10.1 | 10.8 | 10.9 | - |
| Oil and gas field machinery | 3533 | 39.3 | 39.4 | 41.2 | 41.6 | - | 22.7 | 23.0 | 25.1 | 25.9 | - |
| Conveyors and conveying equipment | 3535 | 35.0 | 34.7 | 34.3 | 34.2 | - | 19.1 | 18.7 | 19.1 | 19.0 | - |
| Industrial trucks and tractors | 3537 | 28.3 | 28.3 | 29.1 | 29.0 | - | 19.3 | 19.5 | 19.8 | 19.6 | - |
| Metalworking machinery | 354 | 336.4 | 336.4 | 331.9 | 328.0 | - | 240.0 | 239.8 | 236.8 | 233.8 | - |
| Machine tools, metal cutting types | 3541 | 49.6 | 49.3 | 47.8 | 46.9 | - | 31.9 | 31.6 | 30.6 | 30.1 | - |
| Machine tools, metal forming types ........................ | 3542 | 18.6 | 18.5 | 18.6 | 18.4 | - | 11.9 | 11.7 | 11.6 | 11.5 | - |
| Special dies, tools, jigs, and fixtures ........................ | 3544 | 147.2 | 147.3 | 147.9 | 146.1 | - | 113.1 | 113.5 | 114.5 | 113.0 | - |
| Machine tool accessories | 3545 | 58.5 | 58.6 | 55.6 | 55.0 | - | 41.5 | 41.5 | 39.1 | 38.7 | - |
| Power driven handtools | 3546 | 21.1 | 21.5 | 20.9 | 20.2 | - | 14.9 | 15.0 | 14.4 | 13.7 | - |
| Special industry machinery ....................................... | 355 | 162.1 | 161.2 | 159.4 | 158.3 | - | 97.3 | 96.9 | 94.1 | 92.8 | - |
| Textile machinery | 3552 | 19.1 | 19.1 | 18.9 | 18.9 | - | 12.6 | 12.6 | 12.6 | 12.5 | - |
| Printing trades machinery | 3555 | 26.1 | 25.5 | 23.5 | 23.5 | - | 15.1 | 14.8 | 12.9 | 12.7 | - |
| Food products machinery | 3556 | 24.2 | 24.1 | 24.2 | 23.9 | - | 14.6 | 14.5 | 14.6 | 14.3 | - |
| General industrial machinery ..................................... | 356 | 243.8 | 242.5 | 244.9 | 244.2 | - | 157.2 | 156.0 | 156.7 | 155.6 | - |
| Pumps and pumping equipment ............................... | 3561 | 28.4 | 28.6 | 29.1 | 29.0 | - | 16.6 | 16.6 | 16.5 | 16.5 | - |
| Ball and roller bearings ... | 3562 | 43.7 | 43.4 | 43.6 | 43.7 | - | 33.9 | 33.8 | 33.7 | 33.6 | - |
| Air and gas compressors | 3563 | 24.5 | 24.4 | 25.3 | 25.2 | - | 13.8 | 13.7 | 14.3 | 14.3 | - |
| Blowers and fans | 3564 | 32.0 | 31.7 | 32.3 | 32.2 | - | 21.6 | 21.3 | 21.9 | 21.7 | - |
| Speed changers, drives, and gears ......................... | 3566 | 16.1 | 16.1 | 16.3 | 16.3 | - | 11.5 | 11.4 | 11.5 | 11.5 | - |
| Power transmission equipment, nec | 3568 | 19.4 | 19.1 | 18.7 | 18.8 | - | 13.3 | 13.0 | 12.7 | 12.6 | - |
| Computer and office equipment ................................ | 357 | 463.0 | 463.4 | 447.4 | 444.9 | - | 147.8 | 148.1 | 141.4 | 139.7 | - |
| Electronic computers | 3571 | 293.6 | 292.8 | 276.7 | 274.4 | - | 80.3 | 79.5 | 70.6 | 69.0 | - |
| Computer terminals, calculators, and office machines, nec $\qquad$ | 3575,8,9 | 70.7 | 71.2 | 68.5 | 68.4 | - | 21.8 | 22.2 | 21.3 | 21.3 | - |
| Refrigeration and service machinery .......................... | 358 | 193.6 | 191.2 | 185.8 | 183.9 | - | 139.8 | 137.7 | 131.9 | 129.8 | - |
| Refrigeration and heating equipment | 3585 | 137.4 | 135.2 | 131.9 | 131.0 | - | 102.5 | 100.7 | 96.9 | 95.8 | - |
| Misc. industrial and commercial machinery ................. | 359 | 317.1 | 316.6 | 314.5 | 311.7 | - | 231.6 | 231.2 | 230.8 | 228.3 | - |
| Carburetors, pistons, rings, valves ........................... | 3592 | 24.0 | 23.5 | 23.3 | 23.2 | - | 18.7 | 18.1 | 19.0 | 18.9 | - |
| Scales, balances, and industrial machinery, nec ....... | 3596,9 | 241.9 | 241.9 | 242.0 | 239.9 | - | 183.9 | 184.0 | 183.6 | 181.4 | - |
| Electronic and other electrical equipment ..................... | 36 | 1,744.2 | 1,752.4 | 1,706.1 | 1,684.3 | 1,680.7 | 1,096.1 | 1,104.7 | 1,078.1 | 1,057.3 | 1,058.3 |
| Electric distribution equipment | 361 | 98.9 | 99.8 | 96.2 | 94.1 | - | 69.7 | 70.8 | 66.9 | 64.9 | - |
| Transformers, except electronic. | 3612 | 49.5 | 50.5 | 48.6 | 47.0 | - | 35.3 | 36.2 | 34.4 | 32.6 | - |
| Switchgear and switchboard apparatus ... | 3613 | 49.4 | 49.3 | 47.6 | 47.1 | - | 34.4 | 34.6 | 32.5 | 32.3 | - |
| Electrical industrial apparatus | 362 | 177.9 | 176.2 | 173.2 | 169.6 | - | 126.6 | 125.0 | 121.8 | 118.3 | - |
| Motors and generators | 3621 | 89.6 | 88.3 | - 86.0 | 83.4 | - | 70.6 | 69.1 | 67.1 | 64.6 | - |
| Relays and industrial controls | 3625 | 68.1 | 67.9 | 67.3 | 66.4 | - | 42.1 | 42.2 | 40.9 | 40.1 | - |
| Household appliances. | 363 | 132.5 | 134.4 | 132.2 | 129.0 | - | 105.9 | 107.7 | 106.3 | 102.7 | - |
| Household refrigerators and freezers | 3632 | 30.4 | 29.4 | 29.4 | 29.5 | - | 24.8 | 24.2 | 24.3 | 24.4 | - |
| Household laundry equipment ........ | 3633 | 20.7 | 21.4 | 21.3 | 21.2 | - | 16.8 | 17.1 | 16.9 | 16.8 | - |
| Electric housewares and fans ................................. | 3634 | 35.5 | 37.4 | 36.1 | 35.1 | - | 27.6 | 29.2 | 27.9 | 26.8 | - |

See footnotes at end of table.

B-2. Employees on nonfarm payrolls by detailed industry-Continued
(in thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Electronic and other electrical equipment-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Electric lighting and wiring equipment ........................ | 364 | 192.1 | 193.0 | 189.8 | 186.5 | - | 137.9 | 138.8 | 136.8 | 134.0 | - |
| Electric lamps | 3641 | 26.2 | 25.5 | 25.2 | 25.1 | - | 22.3 | 21.7 | 21.4 | 21.2 |  |
| Current-carrying wiring devices | 3643 | 74.6 | 74.7 | 73.9 | 72.9 | - | 48.2 | 48.3 | 48.1 | 47.3 | - |
| Noncurrent-carrying wiring devices | 3644 | 15.9 | 16.2 | 16.1 | 15.7 | - | 11.8 | 12.2 | 12.0 | 11.4 | - |
| Residential lighting fixtures | 3645 | 25.0 | 26.1 | 23.9 | 23.2 | - | 18.4 | 19.4 | 17.6 | 17.0 | - |
| Household audio and video equipment | 365 | 87.7 | 89.2 | 86.7 | 85.3 | - | 61.1 | 63.1 | 60.7 | 59.0 | - |
| Household audio and video equipment | 3651 | 66.1 | 67.3 | 64.7 | 63.6 | - | 44.8 | 46.1 | 43.4 | 42.0 | - |
| Communications equipment | 366 | 273.1 | 273.2 | 260.8 | 259.6 | - | 137.8 | 137.8 | 132.5 | 130.9 | - |
| Telephone and telegraph apparatus | 3661 | 141.4 | 142.0 | 132.1 | 131.6 | - | 80.1 | 79.9 | 72.7 | 71.1 | - |
| Electronic components and accessories | 367 | 616.1 | 618.0 | 601.3 | 597.3 | - | 342.8 | 345.0 | 339.0 | 336.0 | - |
| Electron tubes | 3671 | 35.0 | 35.1 | 34.2 | 34.1 | - | 23.2 | 23.3 | 22.3 | 22.4 | - |
| Semiconductors and related devices | 3674 | 252.4 | 252.2 | 245.9 | 245.4 | - | 94.6 | 95.2 | 95.3 | 95.4 | - |
| Electronic components, nec | 3679 | 152.3 | 152.3 | 147.3 | 145.4 | - | 95.2 | 95.3 | 92.4 | 90.9 | - |
| Misc. electrical equipment and supplies ..................... | 369 | 165.9 | 168.6 | 165.9 | 162.9 | - | 114.3 | 116.5 | 114.1 | 111.5 | - |
| Storage batteries | 3691 | 27.0 | 29.2 | 29.1 | 27.9 | - | 20.2 | 22.3 | 22.5 | 21.5 | - |
| Engine electrical equipment .................................... | 3694 | 70.4 | 70.3 | 68.5 | 68.1 | - | 53.5 | 53.3 | 51.6 | 51.3 | - |
| Transportation equipment | 37 | 2,024.7 | 2,032.3 | 2,031.4 | 1,991.8 | 1,977.7 | 1,245.3 | 1,255.1 | 1,260.5 | 1,224.5 | 1,214.7 |
| Motor vehicles and equipment | 371 | 829.8 | 846.9 | 836.5 | 804.8 | 797.5 | 633.7 | 651.2 | 643.6 | 611.9 | 606.2 |
| Motor vehicles and car bodies | 3711 | 322.9 | 342.9 | 333.8 | 307.8 | - | 232.9 | 252.9 | 246.7 | 221.7 | - |
| Truck and bus bodies | 3713 | 43.6 | 43.2 | 42.8 | 42.9 | - | 34.0 | 33.7 | 33.7 | 33.8 | - |
| Motor vehicle parts and accessories | 3714 | 412.2 | 412.3 | 411.4 | 406.5 | - | 326.6 | 326.8 | 325.6 | 319.7 | - |
| Truck trailers ........................... | 3715 | 30.5 | 30.0 | 28.1 | 27.4 | - | 24.1 | 23.7 | 22.2 | 21.4 | - |
| Aircraft and parts | 372 | 714.9 | 710.2 | 715.8 | 710.7 | - | 344.2 | 339.7 | 344.9 | 342.4 | - |
| Aircraft | 3721 | 386.2 | 386.6 | 384.3 | 379.7 | - | 169.3 | 169.4 | 164.7 | 163.0 | - |
| Aircraft engines and engine parts | 3724 | 154.9 | 151.6 | 157.0 | 156.9 | - | 76.9 | 73.9 | 80.3 | 79.9 | - |
| Aircraft parts and equipment, nec | 3728 | 173.8 | 172.0 | 174.5 | 174.1 | - | 98.0 | 96.4 | 99.9 | 99.5 | - |
| Ship and boat building and repairing | 373 | 192.8 | 188.5 | 193.3 | 191.6 | - | 142.7 | 139.1 | 147.0 | 145.7 | - |
| Ship building and repaining | 3731 | 125.3 | 124.1 | 130.9 | 131.8 | - | 87.4 | 86.6 | 95.6 | 96.5 | - |
| Boat building and repairing | 3732 | 67.5 | 64.4 | 62.4 | 59.8 | - | 55.3 | 52.5 | 51.4 | 49.2 | - |
| Railroad equipment | 374 | 33.3 | 33.6 | 34.7 | 35.3 | - | 24.7 | 25.0 | 25.7 | 26.3 | - |
| Guided missiles, space vehicles, and parts | 376 | 193.8 | 193.4 | 189.4 | 188.6 | - | 59.7 | 60.1 | 57.7 | 57.5 | - |
| Guided missiles and space vehicles | 3761 | 137.1 | 136.9 | 136.4 | 136.3 | - | 38.5 | 38.9 | 37.2 | 37.4 | - |
| Miscellaneous transportation equipment .................... | 379 | 47.5 | 46.8 | 47.9 | 47.2 | - | 31.3 | 30.7 | 31.4 | 30.9 | - |
| Travel trailers and campers .................................... | 3792 | 17.5 | 17.4 | 19.1 | 18.9 | - | 13.6 | 13.5 | 14.7 | 14.6 | - |
| Instruments and related products ................................ | 38 | 1,027.9 | 1,029.3 | 1,003.2 | 996.9 | 994.8 | 508.0 | 509.5 | 496.2 | 491.0 | 491.9 |
| Search and navigation equipment | 381 | 299.9 | 298.7 | 284.0 | 282.2 | - | 99.8 | 100.1 | 94.1 | 92.5 | - |
| Measuring and controlling devices ............................. | 382 | 331.4 | 330.9 | 322.7 | 320.6 | - | 186.3 | 186.0 | 179.4 | 177.8 | - |
| Environmental controls | 3822 | 51.3 | 51.1 | 48.8 | 48.7 | - | 34.3 | 34.2 | 33.0 | 33.1 | - |
| Process control instruments | 3823 | 66.0 | 65.8 | 66.2 | 65.9 | - | 35.2 | 35.2 | 34.3 | 34.0 | - |
| Instruments to measure electricity ........................... | 3825 | 100.1 | 100.4 | 95.8 | 95.0 | - | 50.2 | 50.1 | 48.0 | 47.4 | - |
| Medical instruments and supplies | 384 | 238.8 | 240.6 | 244.0 | 242.0 | - | 139.8 | 140.3 | 143.7 | 141.8 | - |
| Surgical and medical instruments | 3841 | 99.2 | 99.3 | 101.0 | 100.9 | - | 57.4 | 57.3 | 58.5 | 58.2 | - |
| Surgical appliances and supplies | 3842 | 89.7 | 90.3 | 92.8 | 92.0 | - | 56.3 | 56.7 | 58.4 | 57.8 | - |
| Ophthalmic goods ......................... | 385 | 38.7 | 39.6 | 39.1 | 38.9 | - | 26.4 | 27.5 | 26.9 | 26.8 | - |
| Photographic equipment and supplies ....................... | 386 | 108.0 | 107.9 | 102.6 | 102.4 | - | 47.5 | 47.2 | 43.9 | 43.9 | - |
| Watches, clocks, watchcases, and parts ................... | 387 | 11.1 | 11.6 | 10.8 | 10.8 | - | 8.2 | 8.4 | 8.2 | 8.2 | - |
| Miscellaneous manufacturing industries ........................ | 39 | 377.6 | 392.2 | 386.9 | 377.4 | 385.9 | 272.3 | 286.6 | 279.9 | 271.4 | 280.4 |
| Jewelry, silverware, and plated ware | 391 | 50.3 | 53.9 | 52.0 | 50.9 | - | 35.0 | 38.3 | 36.3 | 35.4 | - |
| Jeweiry, precious metal .. | 3911 | 36.4 | 39.1 | 37.7 | 36.8 | - | 25.4 | 27.6 | 26.1 | 25.2 | - |
| Musical instruments | 393 | 12.3 | 12.4 | 12.0 | 11.4 | - | 10.1 | 10.2 | 9.8 | 9.2 | - |
| Toys and sporting goods | 394 | 104.9 | 106.8 | 105.8 | 102.6 | - | 76.3 | 78.1 | 76.7 | 74.2 | - |
| Dolls, games, toys, and children's vehicles. | 3942,4 | 45.0 | 47.8 | 44.6 | 43.8 | - | 31.6 | 34.3 | 31.1 | 30.6 | - |
| Sporting and athletic goods, nec | 3949 | 59.9 | 59.0 | 61.2 | 58.8 | - | 44.7 | 43.8 | 45.6 | 43.6 | - |
| Pens, pencils, office, and art supplies | 395 | 35.8 | 35.9 | 35.2 | 34.5 | - | 24.9 | 25.0 | 24.6 | 24.0 | - |
| Costume jewelry and notions. | 396 | 33.2 | 38.9 | 38.4 | 36.2 | - | 25.2 | 31.4 | 29.1 | 26.6 | - |
| Costume jewelry. | 3961 | 21.0 | 25.0 | 24.3 | 23.1 | - | 15.8 | 20.3 | 18.1 | 16.5 | - |
| Miscellaneous manufactures | 399 | 141.1 | 144.3 | 143.5 | 141.8 | - | 100.8 | 103.6 | 103.4 | 102.0 | - |
| Signs and advertising specialties ............................ | 3993 | 57.3 | 57.8 | 57.2 | 57.4 | - | 39.3 | 39.8 | 40.0 | 40.2 | - |

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED

## B-2. Employees on nonfarm payrolls by detailed industry-Continued

(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers' |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Nondurable goods |  | 8,000 | 8,107 | 7,989 | 7,942 | 8,047 | 5,626 | 5.732 | 5,596 | 5,556 | 5,658 |
| Food and kindred products | 20 | 1,688.3 | 1,729.6 | 1,644.5 | 1,686.1 | 1,731.2 | 1,214.4 | 1,255.7 | 1,176.9 | 1,218.5 | 1,262.8 |
| Meat products .............. | 201 | 412.5 | 416.2 | 418.3 | 419.3 | - | 350.1 | 353.3 | 355.1 | 356.2 | - |
| Meat packing plants | 2011 | 138.6 | 139.7 | 138.2 | 137.9 | - | 116.1 | 117.2 | 116.0 | 115.6 | - |
| Sausages and other prepared meats ....................... | 2013 | 84.5 | 85.1 | 85.5 | 85.8 | - | 62.4 | 62.9 | 63.5 | 64.2 | - |
| Poultry slaughtering and processing ........................ | 2015 | 189.4 | 191.4 | 194.6 | 195.6 | - | 171.6 | 173.2 | 175.6 | 176.4 | - |
| Dairy products ................................. | 202 | 161.3 | 160.2 | 157.6 | 157.5 | - | 100.1 | 98.8 | 97.2 | 97.2 | - |
| Cheese, natural and processed .............................. | 2022 | 43.6 | 43.1 | 42.5 | 42.6 | - | 33.5 | 33.3 | 33.1 | 32.9 | - |
| Fluid milk | 2026 | 75.6 | 75.7 | 74.5 | 74.2 | - | 38.5 | 38.3 | 37.1 | 37.3 | - |
| Preserved fruits and vegetables ................................ | 203 | 279.9 | 310.1 | 237.6 | 276.2 | - | 234.4 | 263.7 | 195.9 | 233.8 | - |
| Canned specialties ............... | 2032 | 23.9 | 25.8 | 22.8 | 23.4 | - | 17.5 | 19.4 | 17.4 | 18.2 | - |
| Canned fruits and vegetables | 2033 | 112.1 | 138.2 | 75.1 | 108.5 | - | 97.1 | 121.9 | 62.5 | 95.6 | - |
| Frozen fruits and vegetables | 2037 | 56.0 | 60.5 | 55.9 | 58.1 | - | 49.4 | 54.4 | 49.0 | 50.7 | - |
| Grain mill products ... | 204 | 124.0 | 126.0 | 127.2 | 126.5 | - | 85.8 | 87.2 | 87.8 | 87.0 | - |
| Flour and other grain mill products ......................... | 2041 | 20.8 | 21.4 | 22.1 | 22.2 | - | 14.2 | 14.2 | 13.8 | 13.9 | - |
| Prepared feeds, nec .................. | 2048 | 43.5 | 43.8 | 44.0 | 43.5 | - | 27.1 | 27.4 | 27.7 | 27.3 | - |
| Bakery products | 205 | 214.5 | 215.0 | 210.2 | 209.3 | - | 133.9 | 134.4 | 132.3 | 131.9 | - |
| Bread, cake, and related products .......................... | 2051 | 157.3 | 157.2 | 153.0 | 152.4 | - | 90.2 | 89.9 | 88.1 | 88.0 | - |
| Cookies, crackers, and frozen bakery products, except bread $\qquad$ | 2052,3 | 57.2 | 57.8 | 57.2 | 56.9 | - | 43.7 | 44.5 | 44.2 | 43.9 | - |
| Sugar and confectionery products ............................. | 206 | 92.0 | 99.8 | 99.2 | 100.4 | - | 70.3 | 77.8 | 76.0 | 77.1 | - |
| Raw cane sugar .... | 2061 | 5.3 | 6.3 | 5.6 | 4.9 | - | 3.6 | 4.5 | 4.0 | 3.4 | - |
| Cane sugar refining ................................................ | 2062 | 5.4 | 5.4 | 5.4 | 5.5 | - | 4.1 | 4.1 | 4.1 | 4.1 | - |
| Beet sugar | 2063 | 7.3 | 7.7 | 7.6 | 7.5 | - | 5.8 | 6.2 | 6.0 | 5.9 | - |
| Candy and other confectionery products | 2064 | 44.9 | 50.5 | 50.0 | 51.9 | - | 36.4 | 42.0 | 40.0 | 41.9 | - |
| Fats and oils ............................................................ | 207 | 30.4 | 30.2 | 29.8 | 29.5 | - | 22.3 | 22.1 | 21.2 | 21.1 | - |
| Beverages | 208 | 197.5 | 195.9 | 188.6 | 189.2 | - | 84.7 | 84.4 | 79.9 | 80.3 | - |
| Malt beverages ...................................................... | 2082 | 42.0 | 41.8 | 40.7 | 40.6 | - | 25.8 | 25.8 | 24.4 | 24.5 | - |
| Bottled and canned soft drinks ............................... | 2086 | 109.8 | 108.8 | 106.8 | 107.6 | - | 36.7 | 36.2 | 35.6 | 36.2 | - |
| Misc. food and kindred products | 209 | 176.2 | 176.2 | 176.0 | 178.2 | - | 132.8 | 134.0 | 131.5 | 133.9 | - |
| Tobacco products | 21 | 46.2 | 48.4 | 43.6 | 43.6 | 48.0 | 33.1 | 35.9 | 31.4 | 31.1 | 35.0 |
| Cigarettes ............................................................... | 211 | 36.3 | 35.8 | 34.3 | 34.6 | - | 26.4 | 26.4 | 25.6 | 25.6 | - |
| Textile mill products | 22 | 715.3 | 726.6 | 706.0 | 692.8 | 704.8 | 617.6 | 628.0 | 606.4 | 593.8 | 603.8 |
| Broadwoven fabric mills, cotton | 221 | 94.4 | 95.7 | 91.1 | 87.3 | - | 84.7 | 86.0 | 81.4 | 77.8 | - |
| Broadwoven fabric mills, synthetics ........................... | 222 | 83.9 | 84.2 | 81.9 | 80.2 | - | 74.3 | 74.5 | 72.0 | 70.5 | - |
| Broadwoven fabric mills, wool .................................. | 223 | 18.5 | 19.2 | 18.0 | 17.6 | - | 14.8 | 15.5 | 14.5 | 14.2 | - |
| Narrow fabric mills | 224 | 23.6 | 25.1 | 24.2 | 23.5 | - | 19.9 | 21.3 | 20.4 | 19.8 | - |
| Knitting mills | 225 | 215.1 | 218.5 | 210.6 | 207.8 | - | 189.0 | 192.2 | 183.9 | 181.2 | - |
| Women's hosiery, except socks ............................. | 2251 | 32.4 | 32.7 | 32.8 | 32.3 | - | 29.1 | 29.3 | 29.3 | 28.8 | - |
| Hosiery, nec .......................................................... | 2252 | 39.8 | 40.6 | 39.1 | 38.9 | - | 36.1 | 36.9 | 35.1 | 34.8 | - |
| Knit outerwear mills | 2253 | 66.6 | 67.9 | 64.5 | 64.2 | - | 59.1 | 60.3 | 56.6 | 56.5 | - |
| Knit underwear mills | 2254 | 29.8 | 29.7 | 27.6 | 26.4 | - | 25.1 | 25.1 | 23.6 | 22.4 | - |
| Weft knit fabric mills | 2257 | 27.8 | 28.0 | 27.6 | 27.4 | - | 24.2 | 24.4 | 23.8 | 23.6 | - |
| Textile finishing, except wool .................................... | 226 | 59.9 | 61.4 | 61.1 | 60.4 | - | 49.1 | 50.3 | 49.6 | 48.8 | - |
| Finishing plants, cotton .......................................... | 2261 | 24.0 | 24.9 | 25.8 | 25.1 | - | 19.6 | 20.3 | 20.8 | 20.1 | - |
| Finishing plants, synthetics ..................................... | 2262 | 23.1 | 23.6 | 23.1 | 23.3 | - | 18.6 | 18.9 | 18.6 | 18.5 | - |
| Carpets and rugs ..................................................... | 227 | 63.6 | 64.1 | 65.1 | 65.1 | - | 51.6 | 52.1 | 53.2 | 53.0 | - |
| Yarn and thread mills | 228 | 104.8 | 106.0 | 102.9 | 99.9 | - | 94.2 | 95.5 | 92.1 | 89.3 | - |
| Yarn spinning mills ................................................. | 2281 | 83.5 | 84.5 | 82.2 | 79.6 | - | 75.1 | 76.2 | 73.9 | 71.4 | - |
| Throwing and winding mills ..................................... | 2282 | 14.8 | 15.0 | 14.3 | 14.0 | - | 13.2 | 13.4 | 12.5 | 12.3 | - |
| Miscellaneous textile goods ...................................... | 229 | 51.5 | 52.4 | 51.1 | 51.0 | - | 40.0 | 40.6 | 39.3 | 39.2 | - |
| Apparel and other textile products | 23 | 1,044.4 | 1,074.8 | 1,038.6 | 997.7 | 1,026.2 | 876.5 | 905.8 | 871.7 | 832.3 | 859.9 |
| Men's and boys' suits and coats | 231 | 52.5 | 53.0 | 49.5 | 47.6 | - | 44.9 | 45.2 | 41.6 | 39.7 | - |
| Men's and boys' furnishings ...................................... | 232 | 280.7 | 287.1 | 275.8 | 263.0 | - | 241.6 | 248.1 | 237.4 | 225.6 | - |
| Men's and boys' shirts ........................................... | 2321 | 67.0 | 68.6 | 65.0 | 60.8 | - | 56.9 | 58.3 | 55.3 | 51.6 | - |
| Men's and boys' trousers and slacks | 2325 | 85.6 | 87.9 | 84.8 | 80.3 | - | 74.8 | 77.2 | 73.8 | 69.4 | - |
| Men's and boys' work clothing ................................. | 2326 | 46.2 | 46.9 | 44.6 | 43.9 | - | 40.1 | 40.8 | 38.5 | 38.0 | - |
| Women's and misses' outerwear ............................... | 233 | 328.1 | 341.6 | 325.3 | 309.6 | - | 273.3 | 285.6 | 271.7 | 256.8 | - |
| Women's and misses' blouses and shirts ................ | 2331 | 42.5 | 43.3 | 40.1 | 38.2 | - | 35.0 | 35.7 | 32.8 | 30.9 | - |
| Women's, juniors', and misses' dresses ................... | 2335 | 69.7 | 75.9 | 72.1 | 67.0 | - | 57.4 | 62.8 | 59.3 | 54.6 | - |
| Women's and misses' suits and coats | 2337 | 39.2 176.7 | 40.0 | 39.5 | 40.4 | - | 32.7 148. | 33.5 | 32.9 146.7 | 33.6 137.7 | - |
| Women's and misses' outerwear, nec .............. | 2339 | 176.7 | 182.4 | 173.6 | 164.0 | - | 148.2 | 153.6 | 146.7 | 137.7 | - |

See footnotes at end of table.

## B-2. Employees on nonfarm payrolls by detailed industry-Continued

(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Apparel and other textile products-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Women's and children's undergarments ..................... | 234 | 64.3 | 66.4 | 61.5 | 60.0 | - | 53.0 | 55.0 | 50.5 | 49.0 | - |
| Women's and children's underwear | 2341 | 51.7 | 52.9 | 48.9 | 48.1 | - | 44.3 | 45.7 | 42.0 | 41.2 |  |
| Brassieres, girdles, and allied garments | 2342 | 12.6 | 13.5 | 12.6 | 11.9 | - | 8.7 | 9.3 | 8.5 | 7.8 | - |
| Girl's and children's outerwear .................................. | 236 | 58.4 | 57.9 | 57.9 | 56.8 | - | 48.8 | 48.8 | 48.7 | 47.6 | - |
| Girl's and children's dresses and blouses | 2361 | 22.7 | 22.2 | 22.2 | 21.5 | - | 19.7 | 19.3 | 19.4 | 18.7 | - |
| Misc. apparel and accessories | 238 | 44.2 | 45.7 | 43.6 | 42.5 | - | 36.5 | 37.7 | 35.9 | 34.8 | - |
| Misc. fabricated textile products | 239 | 198.5 | 205.4 | 206.3 | 199.7 | - | 163.9 | 171.0 | 170.5 | 163.6 | - |
| Curtains and draperies | 2391 | 24.8 | 25.6 | 24.4 | 23.1 | - | 20.5 | 21.3 | 20.1 | 18.9 | - |
| House furnishings, nec | 2392 | 52.8 | 55.4 | 54.2 | 53.2 | - | 44.1 | 46.6 | 45.5 | 44.3 | - |
| Automotive and apparel trimmings .......................... | 2396 | 45.2 | 46.3 | 50.1 | 47.9 | - | 37.7 | 38.7 | 41.3 | 39.1 | - |
| Paper and allied products | 26 | 703.1 | 703.9 | 705.7 | 704.7 | 705.8 | 525.8 | 527.3 | 530.3 | 529.1 | 531.4 |
| Paper mills | 262 | 180.6 | 180.3 | 180.8 | 181.3 | - | 137.1 | 136.7 | 137.2 | 137.4 | - |
| Paperboard mills | 263 | 52.8 | 52.8 | 52.5 | 52.3 | - | 40.5 | 40.3 | 40.1 | 40.0 | - |
| Paperboard containers and boxes | 265 | 209.7 | 210.6 | 211.0 | 209.0 | - | 162.0 | 163.0 | 163.0 | 161.1 | - |
| Corrugated and solid fiber boxes | 2653 | 117.7 | 118.0 | 119.1 | 117.7 | - | 88.4 | 88.8 | 89.4 | 88.1 | - |
| Sanitary food containers ... | 2656 | 14.8 | 14.6 | 15.6 | 15.3 | - | 12.4 | 12.2 | 13.3 | 13.0 | - |
| Folding paperboard boxes | 2657 | 51.5 | 51.5 | 50.9 | 50.7 | - | 41.5 | 41.3 | 40.9 | 40.7 |  |
| Misc. converted paper products | 267 | 243.2 | 243.4 | 244.1 | 244.8 | - | 173.0 | 174.1 | 176.6 | 177.2 | - |
| Paper, coated and laminated, nec | 2672 | 44.6 | 44.5 | 44.7 | 44.9 | - | 20.2 | 20.2 | 22.0 | 21.9 | - |
| Bags: plastics, laminated, and coated | 2673 | 33.4 | 33.6 | 34.1 | 34.2 | - | 25.3 | 25.4 | 25.3 | 25.6 | - |
| Envelopes ....... | 2677 | 26.7 | 27.0 | 27.1 | 26.3 | - | 20.6 | 21.0 | 21.0 | 20.4 | - |
| Printing and publishing | 27 | 1,560.4 | 1,561.1 | 1,584.7 | 1,576.3 | 1,578.3 | 861.9 | 863.4 | 878.3 | 871.9 | 874.9 |
| Newspapers | 271 | 472.2 | 471.8 | 480.3 | 478.6 | - | 164.3 | 164.5 | 166.3 | 165.2 | - |
| Periodicals | 272 | 128.5 | 129.2 | 131.9 | 132.0 | - | 45.5 | 45.8 | 48.3 | 48.5 | - |
| Books . | 273 | 121.0 | 119.4 | 120.3 | 120.4 | - | 65.3 | 63.7 | 65.0 | 65.1 | - |
| Book publishing | 2731 | 85.5 | 84.6 | 85.3 | 85.0 | - | 37.2 | 35.9 | 36.7 | 36.3 | - |
| Book printing. | 2732 | 35.5 | 34.8 | 35.0 | 35.4 | - | 28.1 | 27.8 | 28.3 | 28.8 | - |
| Miscellaneous publishing | 274 | 82.5 | 82.1 | 82.5 | 82.3 | - | 41.2 | 40.7 | 42.0 | 42.0 | - |
| Commercial printing. | 275 | 542.3 | 543.5 | 553.5 | 548.0 | - | 393.0 | 395.2 | 402.6 | 397.7 | - |
| Commercial printing, lithographic | 2752 | 358.3 | 358.1 | 367.3 | 364.2 | - | 259.0 | 259.5 | 267.1 | 264.3 | - |
| Commercial printing, nec ........................................ | 2759 | 168.6 | 169.8 | 170.9 | 168.8 | - | 121.7 | 123.2 | 123.2 | 121.5 | - |
| Manifold business forms | 276 | 49.5 | 49.6 | 48.7 | 48.4 | - | 33.6 | 33.7 | 33.8 | 33.6 | - |
| Blankbooks and bookbinding | 278 | 76.0 | 76.7 | 76.8 | 75.4 | - | 59.0 | 59.6 | 59.7 | 58.7 | - |
| Printing trade services ..... | 279 | 64.0 | 64.0 | 63.9 | 63.8 | - | 47.3 | 47.3 | 46.7 | 46.5 | - |
| Chemicals and allied products. | 28 | 1,078.8 | 1,083.3 | 1,094.7 | 1,091.4 | 1,091.5 | 606.3 | 610.8 | 605.6 | 603.6 | 602.6 |
| Industrial inorganic chemicals | 281 | 133.7 | 133.8 | 136.2 | 136.7 | - | 69.3 | 69.9 | 68.1 | 68.8 | - |
| Industrial inorganic chemicals, nec .......................... | 2819 | 89.6 | 89.7 | 91.7 | 92.0 | - | 47.8 | 47.9 | 48.2 | 48.3 | - |
| Plastics materials and synthetics . | 282 | 185.3 | 185.6 | 186.9 | 186.3 | - | 120.5 | 121.2 | 120.9 | 120.4 | - |
| Plastics materials and resins | 2821 | 89.8 | 89.9 | 90.1 | 89.9 | - | 52.5 | 52.8 | 53.1 | 52.8 | - |
| Organic fibers, noncellulosic ................................... | 2824 | 66.3 | 66.7 | 66.8 | 66.2 | - | 47.3 | 47.8 | 46.8 | 46.4 | - |
| Drugs ..................................................................... | 283 | 234.8 | 235.2 | 239.0 | 239.8 | - | 103.1 | 103.5 | 106.3 | 107.0 | - |
| Pharmaceutical preparations | 2834 | 195.2 | 195.6 | 198.2 | 198.7 | - | 85.8 | 86.2 | 89.5 | 90.3 | - |
| Soap, cleaners, and toilet goods | 284 | 158.5 | 162.3 | 160.6 | 157.2 | - | 100.3 | 102.9 | 99.4 | 97.3 | - |
| Soap and other detergents ..................................... | 2841 | 43.1 | 43.1 | 43.7 | 43.7 | - | 27.1 | 27.1 | 28.2 | 28.2 | - |
| Polishing, sanitation, and finishing preparations ........ | 2842,3 | 43.2 | 43.5 | 45.0 | 45.0 | - | 24.0 | 24.3 | 24.5 | 24.5 | - |
| Toilet preparations | 2844 | 72.2 | 75.7 | 71.9 | 68.5 | - | 49.2 | 51.5 | 46.7 | 44.6 | - |
| Paints and allied products | 285 | 63.4 | 63.9 | 64.0 | 64.5 | - | 32.7 | 32.6 | 32.6 | 33.0 | - |
| Irdustrial organic chemicals ...................................... | 286 | 149.9 | 149.9 | 154.0 | 154.0 | - | 88.1 | 88.6 | 85.8 | 85.8 | - |
| Cyclic crudes and intermediates .............................. | 2865 | 28.5 | 28.6 | 29.5 | 29.3 | - | 17.5 | 17.7 | 17.7 | 17.6 | - |
| Industrial organic chemicals, nec | 2869 | 116.8 | 116.7 | 120.2 | 120.4 | - | 67.4 | 67.7 | 65.2 | 65.3 | - |
| Agricultural chemicals.. | 287 | 53.1 | 52.2 | 53.8 | 53.1 | - | 32.8 | 32.1 | 33.3 | 32.6 | - |
| Miscellaneous chemical products .............................. | 289 | 100.1 | 100.4 | 100.2 | 99.8 | - | 59.5 | 60.0 | 59.2 | 58.7 | - |
| Petroleum and coal products. | 29 | 160.4 | 160.6 | 163.1 | 163.7 | 164.3 | 105.6 | 106.0 | 107.8 | 108.1 | 108.4 |
| Petroleum refining | 291 | 119.3 | 119.4 | 120.8 | 121.3 | - | 76.1 | 76.3 | 77.6 | 77.8 | - |
| Asphalt paving and roofing materials .............. | 295 | 29.2 | 29.4 | 30.1 | 30.2 | - | 22.8 | 23.0 | 23.3 | 23.3 | - |

See footnotes at end of table.

## ESTABLISHMENT DATA

EMPLOYMENT
NOT SEASONALLY ADJUSTED

## B-2. Employees on nonfarm payrolls by detailed industry-Continued

(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. 1989 | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | June 1990 | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Rubber and misc. plastics products .............................. | 30 | 873.4 | 880.8 | 877.8 | 864.6 | 871.0 | 677.5 | 684.8 | 680.4 | 667.4 | 674.9 |
| Tires and inner tubes | 301 | 85.6 | 85.9 | 83.5 | 84.1 | - | 64.4 | 64.5 | 61.1 | 61.3 | - |
| Rubber and plastics footwear | 302 | 10.8 | 10.2 | 11.0 | 9.4 | - | 8.8 | 8.3 | 8.9 | 7.7 | - |
| Hose, belting, gaskets, and packing | 305 | 59.1 | 58.7 | 58.7 | 58.7 | - | 43.0 | 42.7 | 42.4 | 42.3 | - |
| Rubber and plastics hose and belting | 3052 | 25.8 | 25.5 | 25.2 | 25.1 | - | 19.1 | 18.9 | 18.8 | 18.7 | - |
| Fabricated rubber products, nec ........... | 306 | 107.1 | 107.5 | 105.0 | 103.2 | - | 80.5 | 81.0 | 79.0 | 77.5 | - |
| Miscellaneous plastics products, nec ......................... | 308 | 610.8 | 618.5 | 619.6 | 609.2 | - | 480.8 | 488.3 | 489.0 | 478.6 | - |
| Leather and leather products | 31 | 129.6 | 137.5 | 129.9 | 121.3 | 126.3 | 107.5 | 114.4 | 107.5 | 99.9 | 104.5 |
| Leather tanning and finishing | 311 | 14.2 | 14.8 | 14.9 | 12.8 | - | 11.9 | 12.4 | 12.5 | 10.5 | - |
| Footwear, except rubber ........................................... | 314 | 72.9 | 77.0 | 72.6 | 68.9 | - | 62.2 | 65.9 | 61.8 | 58.4 | - |
| Men's footwear, except athletic | 3143 | 31.9 | 33.1 | 31.5 | 30.2 | - | 26.2 | 27.1 | 25.5 | 24.5 | - |
| Women's footwear, except athletic | 3144 | 26.1 | 27.9 | 26.7 | 25.3 | - | 23.1 | 24.8 | 23.6 | 22.1 | - |
| Luggage .................................................................. | 316 | 10.1 | 11.3 | 10.9 | 9.7 | - | 7.3 | 8.4 | 7.8 | 7.0 | - |
| Handbags and personal leather goods ...................... | 317 | 15.2 | 16.6 | 14.0 | 13.2 | - | 12.0 | 13.2 | 11.1 | 10.4 | - |
| Transportation and public utilities ................................. |  | 5,675 | 5,566 | 5,881 | 5,842 | 5,854 | 4,717 | 4,634 | 4,895 | 4,854 | 4,866 |
| Transportation .............................................................. |  | 3,434 | 3,453 | 3,649 | 3,607 | 3,615 | - | - | - | - | - |
| Railroad transportation ................................................ | 40 | 296.9 | 298.0 | 290.3 | 288.8 | - | - | - | - | - | - |
| Class I railroads ${ }^{2}$...................................................... | 4011 | 253.0 | 254.0 | 245.8 | 244.8 | - | - | - | - | - | - |
| Local and interurban passenger transit ......................... | 41 | 272.9 | 273.8 | 331.3 | 277.3 | - | 245.2 | 245.3 | 302.4 | 250.3 | - |
| Local and suburban transportation ............................. | 411 | 127.2 | 127.9 | 136.2 | 136.2 | - | 113.9 | 113.5 | 122.7 | 123.7 | - |
| Taxicabs | 412 | 32.4 | 32.7 | 33.0 | 32.5 | - | - | - | - | - | - |
| Intercity and rural bus transportation | 413 | 29.0 | 28.5 | 18.4 | 18.3 | - | 26.2 | 25.9 | 15.9 | 15.8 | - |
| School buses ................................... | 415 | 57.1 | 57.2 | 112.8 | 61.4 | - | - | - | - | - | - |
| Trucking and warehousing .......................................... | 42 | 1,624.2 | 1,633.7 | 1,672.8 | 1,677.7 | - | 1,419.8 | 1,429.6 | 1,459.8 | 1,462.0 | - |
| Trucking and courier services, except air .................... | 421 | 1,506.8 | 1,514.5 | 1,552.6 | 1,557.1 | - | 1,322.2 | 1,330.5 | 1,360.2 | 1,362.0 | - |
| Public warehousing and storage ................................. | 422 | 113.7 | 115.6 | 116.5 | 116.9 | - | 94.5 | 96.1 | 96.4 | 96.9 | - |
| Water transportation | 44 | 183.7 | 180.7 | 180.1 | 182.0 | - | - | - | - | - | - |
| Water transportation of freight, nec ........................... | 444 | 14.2 | 14.0 | 13.9 | 13.6 | - | - | - | - | - | - |
| Water transportation services ................................... | 449 | 117.6 | 115.3 | 114.4 | 114.8 | - | 105.6 | 103.0 | 101.5 | 102.1 | - |
| Transportation by air .............. | 45 | 700.2 | 708.3 | 792.8 | 800.0 | - | - | - | - | - | - |
| Air transportation, scheduled | 451 | 576.8 | 584.0 | 656.4 | 662.3 | - | - | - | - | - | - |
| Airports, flying fields, and services .............................. | 458 | 97.1 | 96.8 | 105.4 | 106.5 | - | - | - | - | - | - |
| Pipelines, except natural gas ....................................... | 46 | 19.5 | 19.5 | 20.2 | 20.4 | - | 14.1 | 14.1 | 14.9 | 15.0 | - |
| Transportation services . | 47 | 337.0 | 339.0 | 361.3 | 360.6 | - | - | - | - | - | - |
| Freight transportation arrangement | 473 | 125.5 | 127.8 | 132.2 | 133.0 | - | 100.7 | 102.7 | 107.4 | 107.9 | - |
| Communications and public utilities ................................ |  | 2,241 | 2,113 | 2,232 | 2,235 | 2,239 | - | - | - 57 | - | - |
| Communications ......................................................... | 48 | 1,293.0 | 1,164.1 | 1,279.9 | 1,279.7 | - | 970.3 | 870.2 | 957.7 | 958.7 | - |
| Telephone communications | 481 | 904.7 | 774.4 | 883.0 | 882.6 | - | 654.0 | 553.0 | 636.7 | 638.0 | - |
| Radio and television broadcasting ............................. | 483 | 232.1 | 233.2 | 233.8 | 234.3 | - | 192.0 | 192.6 | 193.3 | 193.5 | - |
| Radio broadcasting stations | 4832 | 120.5 | 121.2 | 121.1 | 121.4 | - | - | - | - | - | - |
| Television broadcasting stations ............................. | 4833 | 111.6 | 112.0 | 112.7 | 112.9 | - | - | - | - | - | - |
| Cable and other pay television services ...................... | 484 | 118.2 | 118.8 | 127.5 | 127.6 | - | 99.7 | 100.3 | 106.0 | 105.8 | - |
| Electric, gas, and sanitary services .............................. | 49 | 947.9 | 948.8 | 952.0 | 955.7 | - | 751.4 | 752.6 | 755.9 | 758.9 | - |
| Electric services | 491 | 447.7 | 447.0 | 447.4 | 447.9 | - | 343.6 | 343.5 | 346.6 | 347.7 | - |
| Gas production and distribution | 492 | 167.6 | 167.6 | 169.5 | 170.6 | - | 132.2 | 132.2 | 133.3 | 134.1 | - |
| Combination utility services ........................................ | 493 | 193.4 | 194.1 | 194.3 | 195.2 | - | 157.1 | 157.7 | 157.0 | 156.8 | - |
| Sanitary services ...................................................... | 495 | 109.5 | 110.4 | 110.6 | 111.5 | - | 95.1 | 95.9 | 95.4 | 96.3 | - |
| Wholesale trade ............................................................ |  | 6,315 | 6,327 | 6,420 | 6,417 | 6,416 | 5,091 | 5,101 | 5,166 | 5,160 | 5,156 |
| Durable goods .............................................................. | 50 | 3,745.0 | 3,749.0 | 3,798.0 | 3,794.0 | 3,789.0 | 2,999.0 | 3,001.0 | 3,027.0 | 3,021.0 | - |
| Motor vehicles, parts, and supplies .............................. | 501 | 457.3 | 455.6 | 454.7 | 455.0 | - | 370.9 | 369.3 | 367.6 | 368.1 | - |
| Automobiles and other motor vehicles | 5012 | 123.5 | 123.1 | 121.4 | 121.9 | - |  |  |  | - | - |
| Motor vehicle supplies and new parts ......................... | 5013 | 264.4 | 262.8 | 263.5 | 263.5 | - | - | - | - | - | - |

See footnotes at end of table.

## B-2. Employees on nonfarm payrolls by detailed Industry-Continued

(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Wholesale trade-Continued Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Furniture and home furnishings ................................... | 502 | 155.7 | 155.8 | 153.7 | 152.0 | - | 126.3 | 126.5 | 123.4 | 123.0 | - |
| Furniture .................................................................. | 5021 | 72.7 | 72.4 | 69.8 | 69.4 | - | - | - | - | - | - |
| Home furnishings | 5023 | 83.0 | 83.4 | 83.9 | 82.6 | - | - | - | - | - | - |
| Lumber and other construction materials | 503 | 240.6 | 240.9 | 245.2 | 247.1 | - | 197.6 | 197.6 | 200.7 | 202.2 | - |
| Lumber, plywood, and millwork | 5031 | 123.5 | 123.8 | 127.1 | 128.0 | - | - | - | - | - | - |
| Construction materials, nec ....................................... | 5039 | 49.7 | 49.4 | 49.8 | 50.6 | - | - | - | - | - | - |
| Professional and commercial equipment | 504 | 783.6 | 787.5 | 792.0 | 791.1 | - | 635.3 | 638.2 | 639.5 | 636.9 | - |
| Computers, peripherals and software ......................... | 5045 | 309.8 | 311.4 | 306.0 | 303.2 | - | - | - | - | - | - |
| Metals and minerals, except petroleum | 505 | 145.9 | 145.2 | 143.6 | 143.4 | - | 116.1 | 115.5 | 114.5 | 114.2 | - |
| Electrical goods ................................ | 506 | 524.4 | 526.4 | 542.6 | 543.0 | - | 397.8 | 399.1 | 409.9 | 408.9 | - |
| Electrical apparatus and equipment ........................... | 5063 | 202.0 | 202.5 | 211.1 | 210.8 | - | - | - | - | - | - |
| Electrical appliances, television and radio sets ........... | 5064 | 68.3 | 69.6 | 69.4 | 69.3 | - | - | - | - | - | - |
| Electronic parts and equipment ....................... | 5065 | 254.1 | 254.3 | 262.1 | 262.9 | - | - | - | - | - | - |
| Hardware, plumbing, and heating equipment | 507 | 290.2 | 289.3 | 286.5 | 286.7 | - | 235.6 | 235.3 | 231.9 | 231.5 | - |
| Hardware | 5072 | 99.1 | 98.8 | 97.4 | 97.5 | - | - | - | - | - | - |
| Plumbing and hydronic heating supplies | 5074 | 120.6 | 120.2 | 119.3 | 118.9 | - | - | - | - | - | - |
| Machinery, equipment, and supplies.. | 508 | 839.8 | 840.1 | 871.0 | 869.5 | - | 670.8 | 670.7 | 693.1 | 692.2 | - |
| Construction and mining machinery | 5082 | 86.4 | 86.4 | 88.9 | 88.9 | - | - | - | - | - | - |
| Farm and garden machinery .......... | 5083 | 119.8 | 119.7 | 124.5 | 124.5 | - | - | - | - | - | - |
| Industrial machinery and equipment | 5084 | 356.3 | 356.7 | 368.2 | 366.4 | - | - | - | - | - | - |
| Industrial supplies | 5085 | 148.7 | 148.8 | 153.7 | 153.8 | - | - | - | - | - | - |
| Misc. wholesale trade durable goods | 509 | 307.9 | 308.6 | 308.4 | 306.2 | - | 248.2 | 248.8 | 246.3 | 244.4 | - |
| Scrap and waste materials ............. | 5093 | 113.3 | 112.7 | 114.9 | 113.7 | - | - | - | - | - | - |
| Nondurable goods | 51 | 2,570.0 | 2,578.0 | 2,622.0 | 2,623.0 | 2,627.0 | 2,092.0 | 2,100.0 | 2,139.0 | 2,139.0 | - |
| Paper and paper products | 511 | 230.4 | 230.3 | 234.0 | 234.3 | - | 184.6 | 184.5 | 188.6 | 188.3 | - |
| Drugs, proprietaries, and sundries | 512 | 186.1 | 186.3 | 188.8 | 189.0 | - | 156.1 | 156.0 | 158.0 | 158.5 | - |
| Apparel, piece goods, and notions | 513 | 207.7 | 210.7 | 216.4 | 214.6 | - | 161.9 | 164.9 | 170.4 | 168.7 | - |
| Groceries and related products ..... | 514 | 847.2 | 847.4 | 862.4 | 863.9 | - | 715.7 | 716.1 | 726.5 | 727.1 | - |
| Groceries, general line | 5141 | 270.3 | 270.8 | 276.4 | 277.5 | - | - | - | - | - | - |
| Meats and meat products | 5147 | 63.9 | 64.2 | 63.3 | 63.3 | - | - | - | - | - | - |
| Fresh fruits and vegetables | 5148 | 102.2 | 99.1 | 110.5 | 109.3 | - | - | - | - | - | - |
| Chemicals and allied products | 516 | 130.9 | 130.2 | 131.1 | 130.7 | - | 93.2 | 92.6 | 94.5 | 94.0 | - |
| Petroleum and petroleum products | 517 | 213.4 | 214.2 | 213.6 | 213.7 | - | 167.8 | 168.9 | 169.3 | 169.7 | - |
| Petroleum bulk stations and terminals | 5171 | 93.1 | 93.6 | 94.9 | 95.9 | - | - | - | - | - | - |
| Petroleum products, nec. | 5172 | 120.3 | 120.6 | 118.7 | 117.8 | - | - | - | - | - | - |
| Beer, wine, and distilled beverages | 518 | 153.4 | 152.8 | 156.3 | 157.6 | - | 126.2 | 125.7 | 128.5 | 129.9 | - |
| Beer and ale. | 5181 | 99.0 | 98.7 | 100.6 | 101.1 | - | - | - | - | - | - |
| Wine and distilled beverages | 5182 | 54.4 | 54.1 | 55.7 | 56.5 | - | - | - | - | - | - |
| Misc. wholesale trade nondurable goods | 519 | 480.0 | 479.0 | 498.9 | 499.8 | - | 388.2 | 387.1 | 404.2 | 405.2 | - |
| Farm supplies | 5191 | 158.9 | 156.7 | 170.2 | 171.1 | - | - | - | - | - | - |
| Retail trade ................................................................... |  | 19,673 | 19,745 | 19,981 | 19,946 | 19,950 | 17,453 | 17,517 | 17,704 | 17,671 | 17,664 |
| Building materials and garden supplies | 52 | 811.4 | 805.0 | 829.2 | 817.8 | - | 675.8 | 670.1 | 690.6 | 680.5 | - |
| Lumber and other building materials | 521 | 457.5 | 455.6 | 458.5 | 455.6 | - | 388.3 | 386.8 | 387.2 | 384.6 | - |
| Hardware stores | 525 | 166.0 | 165.3 | 173.5 | 171.9 | - | 137.5 | 136.7 | 143.6 | 142.0 | - |
| General merchandise stores | 53 | 2,476.2 | 2,481.9 | 2,438.3 | 2,435.7 | 2,435.7 | 2,309.3 | 2,316.2 | 2,282.7 | 2,281.9 | - |
| Department stores | 531 | 2,045.1 | 2,051.7 | 2,018.8 | 2,017.7 | - | 1,919.5 | 1,927.1 | 1,905.0 | 1,905.8 | - |
| Variety stores ........ | 533 | 218.7 | 218.4 | 210.5 | 210.0 | - | 201.1 | 201.0 | 193.1 | 192.2 | - |
| Miscellaneous general merchandise stores ................... | 539 | 212.4 | 211.8 | 209.0 | 208.0 | - | 188.7 | 188.1 | 184.6 | 183.9 | - |
| Food stores | 54 | 3,202.2 | 3,210.2 | 3,308.9 | 3,313.5 | 3,299.7 | 2,951.1 | 2,957.0 | 3,042.6 | 3,047.3 | - |
| Grocery stores | 541 | 2,842.5 | 2,849.6 | 2,932.5 | 2,941.2 | - | 2,632.9 | 2,638.4 | 2,711.2 | 2,721.3 | - |
| Meat and fish markets | 542 | 55.5 | 54.7 | 56.1 | 55.8 | - | - | - | - | - | - |
| Dairy products stores | 545 | 28.3 | 28.7 | 25.1 | 26.2 | - | 155 | 56 | - | - | - |
| Retail bakeries ....... | 546 | 172.6 | 173.6 | 179.9 | 176.1 | - | 155.6 | 156.4 | 160.0 | 156.4 | - |
| Automotive dealers and service stations ......................... | 55 | 2,133.5 | 2,131.7 | 2,141.7 | 2,154.4 | 2,159.1 | 1,786.1 | 1,784.1 | 1,785.6 | 1,796.9 | - |
| New and used car dealers .......................................... | 551 | 960.0 | 959.6 | 943.7 | 952.3 | - | 800.6 | 799.5 | 783.1 | 790.8 | - |
| Auto and home supply stores | 553 | 350.3 | 351.9 | 363.2 | 365.8 | - | 282.0 | 283.2 | 291.0 | 294.1 | - |
| Gasoline service stations. | 554 | 646.8 | 645.8 | 647.5 | 650.5 | - | 561.5 | 560.6 | 560.7 | 562.3 | - |
| Automotive dealers, nec ............................................... | 559 | 11.3 | 11.4 | 14.4 | 14.6 | - | 9.3 | 9.5 | 11.8 | 12.1 | - |

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED

## B-2. Employees on nonfarm payrolis by detailed Industry-Continued

(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| Retail trade-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Apparel and accessory stores ........................................ | 56 | 1,175.7 | 1,188.6 | 1,137.2 | 1,132.7 | - | 987.8 | 1,000.7 | 949.7 | 946.2 | - |
| Men's and boys' clothing stores ................................... | 561 | 107.2 | 107.0 | 99.7 | 99.3 | - | 86.1 | 85.9 | 79.4 | 79.0 | - |
| Women's clothing stores | 562 | 413.9 | 416.4 | 393.3 | 391.1 | - | 346.8 | 348.0 | 326.8 | 325.2 | - |
| Family clothing stores ..... | 565 | 280.5 | 284.6 | 273.6 | 272.6 | - | 242.5 | 247.7 | 236.3 | 235.5 | - |
| Shoe stores ............................................................... | 566 | 223.9 | 228.8 | 221.3 | 221.9 | - | 185.5 | 190.5 | 181.6 | 182.1 | - |
| Furniture and home furnishings stores ............................ | 57 | 827.2 | 827.8 | 829.0 | 827.9 | - | 678.0 | 678.0 | 679.4 | 677.4 | - |
| Furniture and home furnishings stores ......................... | 571 | 471.9 | 471.8 | 473.1 | 472.2 | - | 383.9 | 383.4 | 385.9 | 384.4 | - |
| Furniture stores | 5712 | 288.5 | 287.9 | 288.9 | 287.8 | - | - | - | - | - | - |
| Household appliance stores | 572 | 85.1 | 85.2 | 77.8 | 76.8 | - | 70.8 | 71.4 | 64.0 | 63.6 | - |
| Radio, television, and computer stores | 573 | 270.2 | 270.8 | 278.1 | 278.9 | - | 223.3 | 223.2 | 229.5 | 229.4 | - |
| Radio, television, and electronic stores ....................... | 5731 | 119.1 | 119.2 | 122.1 | 122.8 | - | 99.7 | 99.9 | 102.2 | 103.1 | - |
| Record and prerecorded tape stores .......................... | 5735 | 55.6 | 55.7 | 59.8 | 59.5 | - | 48.0 | 47.5 | 50.8 | 50.1 | - |
| Eating and drinking places ............................................. | 58 | 6,611.2 | 6,652.9 | 6,803.0 | 6,783.8 | 6,805.2 | 6,023.0 | 6,060.2 | 6,185.1 | 6,164.6 | - |
| Miscellaneous retail establishments ............................... | 59 | 2,435.8 | 2,446.5 | 2,493.2 | 2,480.0 | - | 2,041.6 | 2,050.4 | 2,088.6 | 2,075.9 | - |
| Drug stores and proprietary stores .............................. | 591 | 602.1 | 605.5 | 617.6 | 612.5 | - | 510.5 | 512.1 | 520.3 | 516.3 | - |
| Liquor stores | 592 | 123.8 | 122.6 | 123.3 | 123.6 | - | - | - | - | - | - |
| Miscellaneous shopping goods stores .......................... | 594 | 855.4 | 860.9 | 877.5 | 876.3 | - | 711.5 | 717.0 | 730.8 | 728.2 | - |
| Sporting goods and bicycle shops ............................. | 5941 | 158.6 | 160.1 | 165.1 | 165.9 | - | - | - | - | - | - |
| Book stores | 5942 | 84.4 | 86.9 | 89.7 | 89.5 | - | - | - | - | - | - |
| Stationery stores | 5943 | 81.9 | 82.1 | 82.1 | 81.1 | - | - | - | - | - | - |
| Jewelry stores | 5944 | 152.6 | 152.8 | 156.2 | 154.3 | - | - | - | - | - | - |
| Gift, novelty, and souvenir shops | 5947 | 188.9 | 188.7 | 190.2 | 190.9 | - | - | - | - | - | - |
| Sewing, needlework, and piece goods | 5949 | 60.6 | 60.8 | 62.5 | 61.2 | - | - | - | - | - | - |
| Nonstore retailers | 596 | 277.2 | 279.5 | 266.7 | 265.5 | - | 245.7 | 248.3 | 234.3 | 234.1 | - |
| Catalog and mail-order houses | 5961 | 141.4 | 142.3 | 134.1 | 133.9 | - | - | - | - | - | - |
| Merchandising machine operators ............................. | 5962 | 85.2 | 85.4 | 83.9 | 82.7 | - | - | - | - | - | - |
| Fuel dealers ............................................................... | 598 | 108.9 | 109.1 | 111.4 | 110.9 | - | 90.1 | 90.3 | 92.3 | 91.7 | - |
| Retail stores, nec ........................................................ | 599 | 404.2 | 405.1 | 426.8 | 421.0 | - | 330.3 | 331.0 | 352.0 | 346.4 | - |
| Finance, insurance, and real estate ${ }^{3}$ |  | 6,817 | 6,821 | 6,915 | 6,937 | 6,935 | 4,961 | 4,962 | 5,035 | 5,056 | 5,054 |
| Finance ........................................................................ |  | 3,334 | 3,334 | 3,364 | 3,367 | 3,365 | - | - | - | - | - |
| Depository institutions | 60 | 2,310.5 | 2,312.4 | 2,319.8 | 2,318.0 | - | 1,680.4 | 1,680.9 | 1,688.3 | 1,687.1 | - |
| Commercial banks | 602 | 1,570.4 | 1,570.7 | 1,574.7 | 1,573.3 | - | 1,119.0 | 1,118.7 | 1,123.7 | 1,122.6 | - |
| State commercial banks | 6022 | 674.7 | 674.2 | 677.1 | 677.9 | - | - | - | - | - | - |
| Savings institutions .. | 603 | 493.5 | 492.7 | 473.0 | 470.4 | - | - | - | - | - | - |
| Federal savings institutions ... | 6035 | 246.4 | 246.4 | 237.5 | 236.0 | - | - | - | - | - | - |
| Savings institutions, except federal ......................... | 6036 | 247.1 | 246.3 | 235.5 | 234.4 | - | - | - | - | - | - |
| Credit unions ........................................................... | 606 | 130.9 | 131.5 | 136.0 | 136.4 | - | 105.2 | 105.5 | 109.2 | 109.4 | - |
| Nondepository institutions ........................................... | 61 | 362.3 | 364.5 | 374.1 | 375.4 | - | 260.1 | 262.4 | 271.7 | 272.5 | - |
| Personal credit institutions | 614 | 127.8 | 128.1 | 131.2 | 131.6 | - | 96.6 | 96.9 | 98.2 | 98.5 | - |
| Business credit institutions | 615 | 76.8 | 77.8 | 82.4 | 82.5 | - | - | - | - | - | - |
| Mortgage bankers and brokers ................................. | 616 | 147.7 | 148.9 | 151.2 | 152.0 | - | - | - | - | - | - |
| Security and commodity brokers .................................. | 62 | 433.8 | 430.2 | 428.7 | 430.1 | - | - | - | - | - | - |
| Security brokers and dealers ..................................... | 621 | 335.9 | 332.2 | 324.2 | 325.0 | - | - | - | - | - | - |
| Commodity contracts brokers, dealers, and exchanges $\qquad$ | 622,3 | 26.2 | 25.9 | 26.2 | 26.1 | - | - | - | - | - | - |
| Security and commodity services .............................. | 628 | 71.7 | 72.1 | 78.3 | 79.0 | - | 48.4 | 48.2 | 49.2 | 49.7 | - |
| Holding and other investment offices ........................... | 67 | 226.9 | 226.7 | 241.3 | 243.7 | - | - | - | - | - | - |
| Insurance ..................................................................... | 63,64 | 2,117.0 | 2,116.0 | 2,152.0 | 2,159.0 | 2,161.0 | - | - | - | - | - |
| Insurance carriers ....................................................... | 63 | 1,458.8 | 1,458.4 | 1,486.4 | 1,493.0 | - | 974.8 | 974.1 | 998.9 | 1,001.4 | - |
| Life insurance ........................................................... | 631 | 559.9 | 559.0 | 561.2 | 563.1 | - | 339.5 | 339.0 | 343.4 | 342.6 | - |
| Medical service and health insurance. | 632 | 231.9 | 231.8 | 245.2 | 247.7 | - | 187.8 | 187.7 | 198.9 | 201.3 | - |
| Fire, marine, and casualty insurance .......................... | 633 | 551.7 | 552.3 | 559.6 | 561.5 | - | 359.2 | 358.8 | 363.1 | 364.0 | - |
| Title insurance .......................................................... | 636 | 62.6 | 62.9 | 67.3 | 67.3 | - | - | - | - |  | - |
| Insurance agents, brokers, and service ......................... | 64 | 657.8 | 658.0 | 665.8 | 665.9 | - | - | - | - | - | - |

See footnotes at end of table.

## B-2. Employees on nonfarm payrolls by detailed industry-Continued

(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{\text {P }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\text {p }} \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Finance, insurance, and real estate-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Real estate .................................................................. | 65 | 1,366.0 | 1,371.0 | 1,399.0 | 1,411.0 | 1,409.0 | - | - | - | - | - |
| Real estate operators and lessors | 651 | 572.3 | 574.6 | 600.4 | 606.8 | - | - | - | - | - | - |
| Real estate agents and managers | 653 | 591.7 | 594.2 | 590.6 | 595.4 | - | - | - | - | - | - |
| Subdividers and developers ......................................... | 655 | 170.7 | 170.1 | 174.5 | 175.1 | - | - | - | - | - | - |
| Services |  | 27,350 | 27,373 | 28,479 | 28,510 | 28,498 | 23,925 | 23,937 | 24,869 | 24,878 | 24,851 |
| Hotels and other lodging places | 70 | 1,712.5 | 1,714.0 | 1,716.3 | 1,746.5 | - | - | - | - ${ }^{-}$ | - $\square^{-}$ | - |
| Hotels and motels ...................................................... | 701 | 1,629.5 | 1,626.7 | 1,632.3 | 1,649.5 | - | 1,455.8 | 1,450.6 | 1,449.7 | 1,466.7 | - |
| Personal services | 72 | 1,050.0 | 1,049.1 | 1,077.8 | 1,067.2 | - | - | - | - | - | - |
| Laundry, cleaning, and garment services | 721 | 420.0 | 417.9 | 430.8 | 428.1 | - | 373.0 | 371.5 | 383.4 | 381.2 | - |
| Photographic studios, portrait.. | 722 | 64.2 | 65.9 | 68.9 | 68.0 | - | - | - | - | - | - |
| Beauty shops ................... | 723 | 365.5 | 364.8 | 372.2 | 372.2 | - | 325.7 | 325.2 | 333.0 | 332.9 | - |
| Funeral service and crematories | 726 | 81.2 | 81.7 | 85.1 | 85.2 | - | - | - | - | - | - |
| Miscellaneous personal services .................................. | 729 | 94.4 | 94.4 | 96.8 | 90.0 | - | 80.7 | 80.5 | 84.2 | 77.7 | - |
| Business services | 73 | 4,962.6 | 5,005.1 | 5,090.0 | 5,081.9 | 5,107.4 | 4,370.9 | 4,410.1 | 4,467.2 | 4,458.0 | - |
| Advertising | 731 | 237.3 | 239.3 | 239.8 | 240.6 | - | 176.2 | 177.7 | 172.1 | 172.2 | - |
| Advertising agencies | 7311 | 172.7 | 174.4 | 173.2 | 173.7 | - | - | - | - | - | - |
| Credit reporting and collection | 732 | 103.7 | 103.8 | 105.6 | 106.6 | - | - | - | - | - | - |
| Mailing, reproduction, and stenographic services | 733 | 224.9 | 227.8 | 251.6 | 251.2 | - | - | - | - | - | - |
| Services to buildings | 734 | 802.7 | 805.1 | 806.1 | 797.3 | - | 731.7 | 734.6 | 732.1 | 724.6 | - |
| Personnel supply services | 736 | 1,434.4 | 1,458.3 | 1,438.6 | 1,430.0 | - | - | - | - | - | - |
| Employment agencies | 7361 | 236.5 | 236.8 | 233.3 | 233.9 | - | - | - | - ${ }^{-}$ | - | - |
| Help supply services | 7363 | 1,197.9 | 1,221.5 | 1,205.3 | 1,196.1 | - | 1,161.5 | 1,185.3 | 1,167.5 | 1,157.0 | - |
| Computer and data processing services | 737 | 754.2 | 756.4 | 800.5 | 804.4 | - | 589.1 | 588.7 | 624.0 | 627.4 | - |
| Prepackaged software | 7372 | 102.2 | 103.3 | 115.2 | 116.4 | - | - | - | - | - | - |
| Data processing and preparation ................................ | 7374 | 206.6 | 204.6 | 207.6 | 208.2 | - | - | - | - | - | - |
| Miscellaneous business services | 738 | 1,198.4 | 1,205.6 | 1,222.9 | 1,226.6 | - | 1,060.0 | 1,067.2 | 1,082.5 | 1,085.4 | - |
| Detective and armored car services | 7381 | 442.2 | 445.3 | 446.1 | 448.3 | - | 414.3 | 418.0 | 418.4 | 420.1 | - |
| Photofinishing laboratories ........................................ | 7384 | 81.7 | 81.8 | 81.2 | 81.2 | - | - | - | - | - | - |
| Auto repair, services, and parking | 75 | 896.5 | 896.9 | 934.9 | 938.5 | - | 741.5 | 742.1 | 773.4 | 775.9 | - |
| Automotive rentals, without drivers .............................. | 751 | 180.0 | 180.0 | 195.8 | 197.1 | - | - | - | - | - | - |
| Automotive repair shops | 753 | 514.8 | 518.6 | 536.7 | 541.1 | - | 422.2 | 425.9 | 439.8 | 443.6 | - |
| Miscellaneous repair services ........................................ | 76 | 378.8 | 380.1 | 388.6 | 391.3 | - | 312.1 | 313.1 | 319.3 | 321.4 | - |
| Electrical repair shops ............................................... | 762 | 120.6 | 121.4 | 130.2 | 132.1 | - | - | - | - | - | - |
| Motion pictures | 78 | 388.7 | 392.1 | 405.2 | 410.9 | - | 330.0 | 332.7 | 343.9 | 349.1 | - |
| Motion picture production and services. | 781 | 135.2 | 142.0 | 146.6 | 152.8 | - | 110.0 | 116.8 | 118.8 | 124.4 | - |
| Motion picture theaters ............................................... | 783 | 125.7 | 121.2 | 121.1 | 122.3 | - | - | - | - | - | - |
| Amusement and recreation services | 79 | 1,187.6 | 1,177.2 | 1,222.3 | 1,251.1 | - | 1,056.8 | 1,049.0 | 1,079.9 | 1,107.7 | - |
| Misc. amusement and recreation services . | 799 | 857.8 | 852.4 | 872.2 | 907.2 | - | 768.9 | 763.2 | 776.5 | 809.2 | - |
| Health services | 80 | 7,597.7 | 7,627.8 | 8,128.8 | 8,173.5 | 8,201.3 | 6,761.2 | 6,784.3 | 7,228.8 | 7,265.9 | - |
| Offices and clinics of medical doctors | 801 | 1,295.7 | 1,303.9 | 1,413.6 | 1,425.2 | - | 1,070.8 | 1,077.6 | 1,169.4 | 1,177.4 | - |
| Offices and clinics of dentists. | 802 | 504.3 | 506.5 | 525.9 | 524.4 | - | 441.6 | 443.0 | 461.4 | 459.9 | - |
| Nursing and personal care facilities | 805 | 1,376.7 | 1,385.4 | 1,457.5 | 1,464.5 | - | 1,245.6 | 1,252.8 | 1,317.1 | 1,323.2 | - |
| Skilled nursing care facilities | 8051 | 950.9 | 955.4 | 1,005.9 | 1,010.1 | - | - | - | - | - | - |
| Nursing and personal care, nec. | 8059 | 229.8 | 232.8 | 244.0 | 245.9 | - | - | - | - | - | - |
| Hospitals ................. | 806 | 3,497.9 | 3,504.1 | 3,686.7 | 3,706.2 | - | 3,203.5 | 3,207.5 | 3,375.2 | 3,393.6 | - |
| General medical and surgical hospitals | 8062 | 3,231.2 | 3,237.5 | 3,408.7 | 3,427.1 | - | - | - | - | - | - |
| Psychiatric hospitals | 8063 | 99.6 | 99.4 | 102.3 | 101.8 | - | - | - | - | - | - |
| Specialty hospitals, excluding psychiatric ................... | 8069 | 167.1 | 167.2 | 175.7 | 177.3 | - | - | - | - | - | - |
| Medical and dental laboratories ................................... | 807 | 164.0 | 165.2 | 179.8 | 181.7 | - | - | - | - | - | - |
| Home health care services ......................................... | 808 | 248.8 | 250.0 | 299.8 | 303.1 | - | 229.8 | 230.7 | 277.0 | 279.6 | - |

See footnotes at end of table.

ESTABLISHMENT DATA

## EMPLOYMENT

NOT SEASONALLY ADJUSTED

## B-2. Employees on nonfarm payrolis by detailed industry-Continued

(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. 1989 | June 1990 | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| Services-Continued Legal services $\qquad$ | 81 | 912.2 | 909.9 | 955.7 | 955.2 | - | 757.9 | 754.3 | 791.3 | 790.3 | - |
| Educational services | 82 | 1,448.1 | 1,443.6 | 1,556.2 | 1,473.3 | - | - | - | - | - | - |
| Elementary and secondary schools | 821 | 401.8 | 402.5 | 449.7 | 418.4 | - | - | - | - | - | - |
| Colleges and universities ............................................ | 822 | 838.4 | 830.9 | 899.2 | 842.4 | - | - | - | - | - | - |
| Vocational schools ..................................................... | 824 | 93.4 | 94.4 | 91.0 | 89.1 | - | - | - | - | - | - |
| Social services | 83 | 1,699.7 | 1,694.7 | 1,829.9 | 1,816.8 | - | - | - | - | - | - |
| Individual and family services ....................................... | 832 | 439.7 | 438.2 | 455.9 | 463.0 | - | - | - | - | - | - |
| Job training and related services ................................. | 833 | 262.7 | 255.2 | 252.5 | 260.2 | - | - | - | - | - | - |
| Residential care ......................................................... | 836 | 430.4 | 433.5 | 476.2 | 482.6 | - | - | - | - | - | - |
| Museums and botanical and zoological gardens .............. | 84 | 67.6 | 67.1 | 67.4 | 68.2 | - | - | - | - | - | - |
| Membership organizations ............................................ | 86 | 1,879.0 | 1,855.9 | 1,872.3 | 1,903.7 | - | - | - | - | - | - |
| Business associations ................................................. | 861 | 103.5 | 104.2 | 104.0 | 103.9 | - | - | - | - | - | - |
| Labor organizations .................................................... | 863 | 134.1 | 131.1 | 136.2 | 134.3 | - | - | - | - | - | - |
| Civic and social associations ....................................... | 864 | 463.1 | 445.1 | 444.6 | 476.5 | - | - | - | - | - | - |
| Engineering and management services .......................... | 87 | 2,403.8 | 2,401.0 | 2,451.7 | 2,456.5 | - | 1,850.7 | 1,845.4 | 1,874.0 | 1,870.5 | - |
| Engineering and architectural services ......................... | 871 | 790.6 | 790.6 | 807.5 | 811.0 | - | 652.9 | 652.5 | 664.4 | 666.0 | - |
| Accounting, auditing, and bookkeeping ........................ | 872 | 520.0 | 519.4 | 528.2 | 525.2 | - | 393.4 | 393.2 | 395.5 | 390.3 | - |
| Research and testing services .................................... | 873 | 531.6 | 532.2 | 551.1 | 553.4 | - | 396.9 | 395.2 | 400.4 | 400.7 | - |
| Commercial physical research .................................. | 8731 | 223.9 | 223.6 | 228.1 | 230.2 | - | - | - | - | - | - |
| Noncommercial research organizations ...................... | 8733 | 144.8 | 145.3 | 148.9 | 150.9 | - | - | - | - | - | - |
| Management and public relations ................................ | 874 | 561.6 | 558.8 | 564.9 | 566.9 | - | 407.5 | 404.5 | 413.7 | 413.5 | - |
| Services, nec ............................................................... | 89 | 34.4 | 36.4 | 39.3 | 39.4 | - | 26.6 | 27.9 | 31.5 | 31.4 | - |
| Government .................................................................. |  | 16,844 | 16,730 | 18,624 | 17,478 | 17,242 | - | - | - | - | - |
| Federal Government .......................................................... |  | 3.033 | 3,011 | 3,365 | 3,197 | 3,053 | - | - | - | - | - |
| Executive, by agency ${ }^{4}$................................................ |  | 2,971.9 | 2,951.1 | 3,303.2 | - | - | - | - | - | - | - |
| Department of Defense ............................................. |  | 983.4 | 983.3 | 961.0 | - | - | - | - | - | - | - |
| Postal Service ${ }^{5}$............... |  | 831.8 | 829.2 | 819.5 | - | - | - | - | - | - | - |
| Other executive agencies ......................................... |  | 1,156.7 | 1,138.6 | 1,522.7 | - | - | - | - | - | - | - |
| Legislative ................................................................. |  | 39.3 | 38.3 | 39.1 | - | - | - | - | - | - | - |
| Judicial ......................................................................... |  | 21.4 | 21.6 | 22.9 | - | - | - | - | - | - | - |
| Federal Government, by industry |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturing activities $\qquad$ <br> Ship building and repairing $\qquad$ | 3731 | 112.8 70.3 | 112.9 70.3 | 109.4 67.5 | 108.9 67.0 | - | - | - | - | - | - |
| Transportation and public utilities, except Postal Service $\qquad$ |  | 36.8 | 37.1 | 38.0 | 37.2 | - | - | - | - | - | - |
| Services ........................................................ |  | 393.0 | 394.2 | 393.0 | 393.9 | - | - | - | - | - | - |
| Hospitals ............................................................... | 806 | 225.6 | 226.3 | 228.2 | 228.6 | - | - | - | - | - | - |
| State government .......................................................... |  | 3,958.0 | 3,963.0 | 4,171.0 | 4,082.0 | 4,098.0 | - | - | - | - | - |
| Hospitals ................................................................... | 806 | 453.0 | 450.0 | 457.8 | 456.0 | - | - | - | - | - | - |
| Education | 82 | 1,383.8 | 1,385.0 | 1,547.8 | 1,426.9 | - | - | - | - | - | - |
| General administration, including executive, legislative, and judicial functions $\qquad$ |  | 1,583.3 | 1,589.2 | 1,626.6 | 1,655.0 | - | - | - | - | - | - |
| Local government .......................................................... |  | 9,853.0 | 9,756.0 | 11,088.0 | 10,199.0 | 10,091.0 | - | - | - | - | - |
| Transportation and public utilities ................................. |  | 495.3 | 495.3 | 491.0 | 492.8 | - | - | - | - | - | - |
| Hospitals ................................................................... | 806 | 640.7 | 641.8 | 674.4 | 679.5 | - | - | - | - | - | - |
| Education ................................................................... | 82 | 4,820.8 | 4,768.2 | 6,040.6 | 4,977.1 | - | - | - | - | - | - |
| General administration, including executive, legislative, and judicial functions $\qquad$ |  | 3,505.0 | 3,467.6 | 3,487.2 | 3,596.4 | - | - | - | - | - | - |

${ }^{1}$ Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
${ }_{2}$ Data relate to line-haul railroads with operating revenues of $\$ 50,000,000$ or more.
${ }^{3}$ Data for nonoffice sales agents are excluded from the nonsupervisory count for all series in this division.
${ }^{4}$ Prepared by the Office of Personnel Management. Data relate to
civilian employment only and exclude the Central Intelligence Agency and the National Security Agency.
5 Includes rural mail carriers.

- Data not available.
${ }^{-}$= preliminary.
NOTE: Data in this table have been revised to reflect March 1989 benchmarks and conversion to the 1987 Standard Industrial Classification (SIC) system. See the article in this issue for additional information.


## B-3. Women employees on nonfarm payrolls by major industry and manufacturing group

(In thousands)

| Industry | $\begin{gathered} \text { May } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1989 \end{aligned}$ | Apr. <br> 1990 | $\begin{gathered} \text { May } \\ 1990 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total ..................... | 50,982 | 51,126 | 52,185 | 52,566 | 52,716 |
| Total private ........................................................................ | 41,544 | 41,892 | 42,289 | 42,537 | 42,887 |
| Goods-producing .................................................................. | 7,046 | 7,102 | 6,943 | 6,952 | 7,008 |
| Mining | 95 | 97 | 97 | 98 | 100 |
| Construction ......................................................................... | 549 | 558 | 557 | 567 | 573 |
| Manufacturing ...................................................................... | 6,402 | 6,447 | 6,289 | 6,287 | 6,335 |
| Durable goods ............................................................... | 3,065 | 3,077 | 3,001 | 2,998 | 3,013 |
| Lumber and wood products ......... | 123 | 125 | 120 | 121 | 123 |
| Furniture and fixtures ........... | 164 | 164 | 161 | 160 | 161 |
| Stone, clay, and glass products ......................................... | 110 | 112 | 108 | 109 | 110 |
| Primary metal industries .................................................... | 105 | 106 | 103 | 103 | 104 |
| Fabricated metal products .................................................. | 326 | 327 | 314 | 315 | 316 |
| Industrial machinery and equipment | 468 | 471 | 462 | 461 | 461 |
| Electronic and other electrical equipment ............................ | 752 | 755 | 730 | 728 | 730 |
| Transportation equipment .... | 410 | 410 | 410 | 409 | 412 |
| Instruments and related products ...................................... | 425 | 425 | 415 | 414 | 416 |
| Miscellaneous manufacturing ............................................ | 180 | 182 | 179 | 180 | 181 |
| Nondurable goods ............................................................ | 3,337 | 3,370 | 3,288 | 3,289 | 3,322 |
| Food and kindred products ............................................... | 512 | 531 | 509 | 514 | 529 |
| Tobacco products ...................................................... | 15 | 15 | 14 | 14 | 14 |
| Textile mill products | 353 | 355 | 342 | 341 | 344 |
| Apparel and other textile products ...................................... | 864 | 865 | 822 | 818 | 820 |
| Paper and allied products ......... | 170 | 173 | 171 | 172 | 176 |
| Printing and publishing .. | 687 | 690 | 698 | 697 | 700 |
| Chemicals and allied products ............................................ | 318 | 322 | 325 | 326 | 331 |
| Petroleum and coal products .............................................. | 25 | 26 | 25 | 26 | 26 |
| Rubber and misc. plastics products .................................... | 313 | 313 | 305 | 306 | 308 |
| Leather and leather products ............................................ | 80 | 81 | 75 | 75 | 76 |
| Service-producing ................................................................. | 43,936 | 44,024 | 45,242 | 45,614 | 45,708 |
| Transportation and public utilities ....................................... | 1,637 | 1,646 | 1,691 | 1,709 | 1,723 |
| Wholesale trade .................................................................. | 1,906 | 1,922 | 1,940 | 1,945 | 1,963 |
| Retall trade .......................................................................... | 10,380 | 10,482 | 10,315 | 10,447 | 10,557 |
| Finance, insurance, and real estate .................................... | 4,201 | 4,242 | 4,291 | 4,304 | 4,344 |
| Services ............................................................................... | 16,374 | 16,498 | 17,109 | 17,180 | 17,292 |
| Government ........................................................................ | 9,438 | 9,234 | 9,896 | 10,029 | 9,829 |
| Federal ................................................................................ | 1,086 | 1,107 | 1,262 | 1,365 | 1,373 |
| State .................................................................................. | 2,094 | 2,002 | 2,169 | 2,148 | 2,066 |
| Local ................................................................................. | 6,258 | 6,125 | 6,465 | 6,516 | 6,390 |

NOTE: Data in this table have been revised to reflect March 1989 benchmarks and conversion to the 1987 Standard Industrial

Classification (SIC) system. See the article in this issue for additional information.

B-4. Employees on nonfarm payrolls by major industry and manufacturing group, seasonally adjusted
(In thousands)

| Industry | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {P }}$ | Aug. ${ }^{\text {b }}$ |
| Total | 108,628 | 108,868 | 108.980 | 109,245 | 109,383 | 109,654 | 109,958 | 110,122 | 110,177 | 110,617 | 110,829 | 110,740 | 110,665 |
| Total private | 90,797 | 90,985 | 91,096 | 91,344 | 91,456 | 91,656 | 91,917 | 91,963 | 91,922 | 92,120 | 92,282 | 92,291 | 92,279 |
| Goods-producing | 25,356 | 25,304 | 25,283 | 25,280 | 25,218 | 25.188 | 25,339 | 25,259 | 25,180 | 25,191 | 25,162 | 25,100 | 25,008 |
| Mining |  | 709 | 710 | 716 | 718 | 723 | 727 | 729 | 734 | 738 | 744 | 743 | 736 |
| Oil and gas extraction | 387 | 389 | 390 | 394 | 396 | 398 | 402 | 403 | 405 | 408 | 413 | 412 | 409 |
| Construction | 5,220 | 5,225 | 5,239 | 5,258 | 5,216 | 5,294 | 5,368 | 5,313 | 5,256 | 5,286 | 5,270 | 5,231 | 5,191 |
| General building cond | 1,345 | 1,343 | 1,338 | 1,339 | 1,335 | 1,361 | 1,368 | 1,351 | 1,338 | 1,334 | 1,334 | 1,319 | 1,304 |
| Manufacturing | 19,430 | 19,370 | 19,334 | 19,306 | 19,284 | 19,171 | 19,244 | 19,217 | 19,190 | 19,167 | 19,148 | 19,126 | 19,081 |
| Durable goods ... | 11,416753 | 11,369750 | 11,337753 | 11,314 | 11,296753 | 11,192 | 11,278 | 11,261 | 11,229750 | $\begin{array}{r} 11,217 \\ 748 \end{array}$ | 11,201 | 11,175740 | 11,126738 |
| Lumber and wood products ... |  |  |  | $\begin{array}{r}11,314 \\ 752 \\ \hline\end{array}$ |  | 753 | 71,278 | 71,281 |  |  | 515 |  |  |
| Furniture and fixtures ... | $\begin{aligned} & 525 \\ & 568 \end{aligned}$ | 524 | $\begin{aligned} & 521 \\ & 566 \end{aligned}$ | $\begin{aligned} & 521 \\ & 5677 \end{aligned}$ | $\begin{aligned} & 519 \\ & 566 \end{aligned}$ | $\begin{aligned} & 519 \\ & 567 \end{aligned}$ | $\begin{aligned} & 518 \\ & 568 \end{aligned}$ | $\begin{aligned} & 518 \\ & 565 \end{aligned}$ | $\begin{aligned} & 516 \\ & 560 \end{aligned}$ | 516 |  | $512$ | 513 |
| Stone, clay, and glass products |  | 563 |  |  |  |  |  |  |  | 559 | 556 | $552 \quad 551$ |  |
| Primary metal industries .... | $\begin{aligned} & 772 \\ & 278 \end{aligned}$ | 767 | 764 | 760 | 759 | 754 | 756 | 754 | 755 | 755 | 756 | $758 \quad 756$ |  |
| Blast fumaces and basic steel products |  | 278 | 2741.433 | 272 | 273 | 272 | 272 | 270 | 271 | 271 | 270 | $270 \quad 272$ |  |
| Fabricated metal products | $\begin{aligned} & 1,442 \\ & 2,135 \end{aligned}$ | 1,438 |  | 1,429 | 1,426 | 1,412 | 1,418 | 1,418 | $\begin{aligned} & 2,112 \\ & 1,713 \end{aligned}$ | 1.417 | 1,415 | $1,418$ | 1,417 |
| Industrial machinery and equipment ....... |  | $\begin{aligned} & 2,132 \\ & 1,743 \end{aligned}$ | $\begin{aligned} & \mathbf{2 , 1 2 5} \\ & 1,737 \end{aligned}$ | $\begin{aligned} & 2,129 \\ & 1,732 \end{aligned}$ | $\begin{aligned} & 1,130 \\ & 2,130 \\ & 1,722 \end{aligned}$ | $\begin{aligned} & 2,1122 \\ & 1,722 \end{aligned}$ | $\begin{aligned} & 2,128 \\ & 1,720 \end{aligned}$ | $\begin{aligned} & 2,119 \\ & 1,718 \end{aligned}$ |  | $\begin{aligned} & 2,112 \\ & 1,711 \end{aligned}$ | $\begin{aligned} & 2,108 \\ & 1,703 \end{aligned}$ | 2,103 2,098 |  |
| Electronic and other electrical equipment ... | $\begin{aligned} & 1,750 \\ & 2,056 \end{aligned}$ |  |  |  |  |  |  |  |  |  |  | 1,693 | 1,679 |
| Transportation equipment .......... |  | $\begin{array}{r} 2,041 \\ 843 \end{array}$ | $\begin{array}{r} 2,031 \\ 833 \end{array}$ | $\begin{array}{r} 2,023 \\ 826 \end{array}$ | $\begin{array}{r} 2,024 \\ 828 \end{array}$ | $\begin{array}{r} 1,933 \\ 738 \end{array}$ | $\begin{array}{r} 2,023 \\ 828 \end{array}$ | $\begin{array}{r} 2,022 \\ 825 \end{array}$ |  |  |  | 2,016 | 2,000 |
| Motor vehicles and equipment | 864 |  |  |  |  |  |  |  | $820$ | $817$ | $826$ | 825 | 813 |
| Instruments and related products... | $\begin{array}{r} 1,027 \\ 388 \end{array}$ | 1,023388 | 1,021 | 1,018 | 1,011 | 1,011 | 1,009 | 1,008 | 1,005 | 1,002 | 1,000 |  | 992 |
| Miscellaneous manufacturing ......... |  |  |  | 383 | 386 | 389 | 389 | 388 | 385 | 387 | 384 | $386$ | 382 |
| Nondurable goods. | 1,649 | 8,0011,653 | 7,697 | 7,9821,651 | 7,988 | 7,979 | 7,968 | 7,956 | 7,961 | 7,950 | 7,947 | 7,951 | 7,955 |
| Food and kindred products. |  |  |  |  | 1,650 | 1,651 | 1,650 | 1,648 | 1,651 | 1,650 | 1,643 | 1,647 | 1,650 |
| Tobacco products .... | 49 | 48 | 48 | 48 | 47 | 47 | 47 | 46 | 46 | 46 | 47 | 46 | 48 |
| Textile mill products .... | 724 | 720 | 721 | 718 | 716 | 715 | 711 | 709 | 708 | 703 | 702 | 703 | 703 |
| Apparel and other textile products ... | 1,075 | 1,070 | 1,066 | 1,064 | 1,061 | 1,053 | 1,045 | 1,037 | 1,036 | 1,031 | 1,029 | 1,027 | 1,026 |
| Paper and allied products ........ | 700 | 697 | 897 | 697 | 698 | 697 | 699 | 698 | 699 | 698 | 699 | 701 | 702 |
| Printing and publishing .... | 1,566 | 1,566 | 1,567 | 1,571 | 1,573 | 1,576 | 1,576 | 1,578 | 1,579 | 1,581 | 1,582 | 1,581 | 1,583 |
| Chemicals and allied products ........ | 1,076 | 1.075 | 1,076 | 1,077 | 1,081 | 1,081 | 1,083 | 1,083 | 1,084 | 1,085 | 1,086 | 1,085 | 1,084 |
| Petroleum and coal products ....... | 157 | 157 | 158 | 158 | 157 | 158 | 159 | 159 | 159 | 159 | 160 | 160 | 161 |
| Rubber and misc. plastics products | 883 | 880 | 878 | 875 | 873 | 889 | 865 | 867 | 869 | 868 | 871 | 874 | 874 |
| Leather and leather products ..... | 135 | 135 | 135 | 139 | 132 | 132 | 131 | 131 | 130 | 129 | 128 | 127 | 124 |
| Service-producing | 83,272 | 83,564 | 83,697 | 83,965 | 84,165 | 84,466 | 84,619 | 84,863 | 84,997 | 85,426 | 85,667 | 85,640 | 85,657 |
| Transportation and publlc utillites ... | 5,561 | 5,658 | 5,871 | 5,893 | 5,776 | 5.790 | 5,804 | 5,808 | 5,809 | 5,833 | 5,846 | 5,840 | 5,849 |
| Transportation ... | 3,467 | 3,483 | 3,500 | 3,523 | 3,548 | 3,568 | 3,583 | 3,589 | 3,588 | 3,613 | 3,627 | 3,625 | 3,630 |
| Communications and public utilities. | 2,094 | 2,173 | 2,171 | 2,170 | 2,228 | 2,222 | 2,221 | 2,219 | 2,221 | 2,220 | 2,219 | 2,215 | 2,219 |
| Wholesale trade | 6,294 | 6,303 | 6,313 | 6,335 | 6,344 | 6,356 | 6,357 | 6,361 | 6,363 | 6,369 | 6,383 | 6,377 | 6,383 |
| Durable goods ..... | 3,734 | 3.742 | 3,744 | 3,760 | 3,767 | 3,773 | 3,775 | 3,775 | 3,771 | 3,770 | 3,779 | 3,775 | 3,774 |
| Nondurable goods | 2,560 | 2,561 | 2,569 | 2,575 | 2,577 | 2,583 | 2,582 | 2,586 | 2,592 | 2,599 | 2,604 | 2,802 | 2,609 |
| Retall trade | 19,620 | 19,634 | 19,665 | 19,714 | 19,710 | 19,807 | 19,758 | 19,764 | 19,778 | 19,795 | 19,822 | 19,847 | 19,831 |
| General merchandise stores | 2,537 | 2,534 | 2,527 | 2,542 | 2,519 | 2,529 | 2,505 | 2,495 | 2,493 | 2,487 | 2,496 | 2,496 | 2,490 |
| Food stores | 3,205 | 3,211 | 3,230 | 3,240 | 3,247 | 3,263 | 3,268 | 3,272 | 3,287 | 3,295 | 3,302 | 3,304 | 3,296 |
| Automotive dealers and service stations | 2,106 | 2,109 | 2,115 | 2,116 | 2,113 | 2,117 | 2,118 | 2,120 | 2,118 | 2,121 | 2,120 | 2,129 | 2,133 |
| Eating and drinking places ....................... | 6,464 | 6,476 | 6,491 | 6,511 | 6,523 | 6,538 | 6,556 | 6,563 | 6,573 | 6,583 | 6,598 | 6,618 | 6,613 |
| Finance, insurance, and real estate .. | 6,740 | 6,753 | 6,756 | 6,774 | 6,785 | 6,794 | 6,817 | 6,821 | 6,823 | 6,838 | 6,844 | 6,843 | 6,852 |
| Finance ...... | 3,312 | 3,317 | 3,320 | 3,327 | 3,329 | 3,327 | 3,340 | 3,333 | 3,336 | 3,338 | 3,344 | 3,337 | 3,342 |
| Insurance ... | 2,109 | 2,111 | 2,109 | 2,114 | 2,119 | 2,124 | 2,128 | 2,135 | 2,135 | 2,139 | 2,143 | 2,148 | 2,155 |
| Real estate | 1,319 | 1,325 | 1,327 | 1,333 | 1,337 | 1,343 | 1,349 | 1,353 | 1,352 | 1,361 | 1,357 | 1,358 | 1,355 |
| Services ..... | 27,226 | 27,335 | 27,408 | 27,548 | 27,623 | 27,721 | 27,842 | 27,950 | 27,969 | 28,094 | 28,225 | 28,284 | 28,356 |
| Business services.. | 4,950 | 4,980 | 4,970 | 4,990 | 4,986 | 4,993 | 5,010 | 5,021 | 5,026 | 5,048 | 5,060 | 5,052 | 5,052 |
| Health services .......................... | 7,605 | 7,648 | 7,690 | 7,743 | 7,789 | 7,837 | 7,889 | 7,936 | 7,984 | 8,040 | 8,096 | 8.133 | 8,177 |
| Government | 17,831 | 17,883 | 17,884 | 17,901 | 17,927 | 17,998 | 18,041 | 18,159 | 18,255 | 18,497 | 18,547 | 18,449 | 18,386 |
| Federal | 2,996 | 2,992 | 2,986 | 2,982 | 2,977 | 3,000 | 3,005 | 3,089 | 3,151 | 3,346 | 3,338 | 3,161 | 3,038 |
| State | 4,191 | 4,215 | 4,202 | 4,212 | 4,206 | 4,225 | 4,239 | 4,249 | 4,252 | 4,262 | 4,296 | 4,310 | 4,332 |
| Local | 10,644 | 10,676 | 10,696 | 10,707 | 10,744 | 10,773 | 10,797 | 10,821 | 10,852 | 10,889 | 10,913 | 10,978 | 11,016 |

[^8]NOTE: Data in this table have been revised to reflect March 1989 benchmarks,
conversion to the 1987 Standard Industrial Classification (SIC) system, and updated seasonal adjustment factors. See the article in this issue for additional information.

B-5. Women employees on nonfarm payrolls by major industry and manufacturing group, seasonally adjusted
(In thousands)

| Industry | 1989 |  |  |  |  |  |  | 1990 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June |
| Total | $\begin{aligned} & 50,923 \\ & 41,702 \end{aligned}$ | 51,045 | 51,152 | 51,279 | 51,323 | 51,481 |  | 51,711 | 51,844 | 51,968 |  | 52,295 |  |
| Total private |  | 41,771 | 41,808 | 41,929 | 41,963 | 42,099 | 42,196 | 42,249 | 42,347 | 42,405 | 42,459 | 42,538 | 42,697 |
| Goods-producing | 7,064 | 7,068 | ,0 | 7,049 | 7,040 | 7,027 | 7,025 | 7,001 | 7,003 | 6,988 | 6,983 | 6,974 | 6,969 |
| Mining | 96 |  |  |  |  |  |  | 96 | 97 | 98 | 98 | 98 |  |
| Construction | $\begin{array}{r} 550 \\ 6,418 \end{array}$ | $\begin{array}{r} 551 \\ 6,422 \end{array}$ | $\begin{array}{r} 554 \\ 6,418 \end{array}$ | $\begin{array}{r} 553 \\ 6,400 \end{array}$ | $\begin{array}{r} 557 \\ 6,388 \end{array}$ | $\begin{array}{r} 557 \\ 6,375 \end{array}$ | $558$ | 562 |  |  | $\begin{array}{r} 563 \\ 6,322 \end{array}$ | $\begin{array}{r} 566 \\ 6,310 \end{array}$ | 565 |
| Manufacturing |  |  |  |  |  |  | 6,372 | 6,343 | 6,342 | 6,327 |  |  | 6,305 |
| Durable goods ... | 3,064 | 3,061 | 3,058 | 3,046 | 3,037 | 3,028 | 3,028 | 3,009 | 3,017 | 3,013 | 3,006 | 3,001 | 2,999 |
| Lumber and wood products ... | 122 | 122 | 121 | 120 | 121 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Furniture and fixtures .......... | 165 | 165 | 163 | 163 | 162 | 162 | 162 | 161 | 161 | 161 | 160 | 160 | 161 |
| Stone, clay, and glass products. | 111 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 109 | 109 | 108 |
| Primary metal industries ................ | 105 | 105 | 105 | 104 | 104 | 103 | 103 | 102 | 102 | 103 | 103 | 103 | 10 |
| Fabricated metal products .............. | 325 | 325 | 323 | 322 | 320 | 318 | 317 | 314 | 315 | 315 | 315 | 314 | 314 |
| Industrial machinery and equipment. | 468 | 469 | 468 | 467 | 465 | 465 | 466 | 466 | 466 | 463 | 462 | 460 | 459 |
| Electronic and other electrical equipment . | 754 | 752 | 752 | 749 | 746 | 743 | 740 | 738 | 736 | 735 | 733 | 732 | 729 |
| Transportation equipment ..... | 409 | 407 | 410 | 407 | 407 | 408 | 411 | 398 | 408 | 40 | 408 | 40 | 41 |
| Instruments and related products .... | 424 | 425 | 424 | 422 | 421 | 420 | 418 | 418 | 417 | 417 | 416 | 415 | 415 |
| Miscellaneous manufacturing .......... | 181 | 181 | 182 | 182 | 181 | 179 | 181 | 182 | 182 | 181 | 180 | 180 | 179 |
| Nondurable goods ... | 3,35453416 | - 542 | 3,360540 | 3,354544 | -541 | 3,347540 | $\begin{array}{r} 3,344 \\ 539 \end{array}$ | $\begin{array}{r} 3,334 \\ 539 \end{array}$ | 3,325537 | 3,314 | 3,316538 | 3,309 | 3,306 |
| Food and kindred products.. |  |  |  |  |  |  |  |  |  | 537 |  | 537 | 532 |
| Tobacco products ... | $\begin{array}{r}16 \\ 353 \\ \hline\end{array}$ | $\begin{array}{r}16 \\ 352 \\ \hline\end{array}$ | 16352 | $\begin{array}{r}16 \\ 351 \\ \hline\end{array}$ | 16 | 16 | 16 | 16 | 16 | 16 | 15 | 15 | 16 |
| Textile mill products ................... |  |  |  |  | $\begin{aligned} & 351 \\ & 847 \end{aligned}$ | $\begin{aligned} & 350 \\ & 844 \end{aligned}$ | $\begin{aligned} & 348 \\ & 843 \end{aligned}$ | 347 | 346 | 344 | 343 | 341 | 341 |
| Apparel and other textile products ..... | 858171 | 857 | 855 | 850 |  |  |  | 836 | 827 | 818 | 818 | 814 | 813 |
| Paper and allied products ... |  | 173689 | 173690 | $\begin{aligned} & 171 \\ & 688 \end{aligned}$ | 172690 | $\begin{aligned} & 172 \\ & 692 \end{aligned}$ | $\begin{aligned} & 172 \\ & 693 \\ & \hline \end{aligned}$ | $\begin{aligned} & 172 \\ & 694 \end{aligned}$ | $\begin{aligned} & 173 \\ & 694 \end{aligned}$ | 173 <br> 695 | $\begin{aligned} & 173 \\ & 696 \end{aligned}$ | 173 | 173697 |
| Printing and publishing ............... | 688 |  |  |  |  |  |  |  |  |  |  | 696 |  |
| Chemicals and allied products ........ | $\begin{gathered} 318 \\ c^{31}{ }^{3} 11 \end{gathered}$ | 318 | 319 | 319 | 320 | 321 | 323 | 324 | 326 | 326 | 327 | 327 | 327 |
| Petroleum and coal products ..... |  | $\begin{gathered} \left({ }^{\prime}\right) \\ 310 \\ 79 \end{gathered}$ | $\begin{gathered} \text { (') } \\ 311 \\ 79 \end{gathered}$ | $\begin{gathered} (1) \\ 310 \\ 79 \end{gathered}$ | $\begin{gathered} \text { () } \\ 309 \\ 79 \end{gathered}$ | $\begin{gathered} ()^{308} \\ 78 \end{gathered}$ | $\begin{gathered} C^{\prime}(306 \\ 78 \end{gathered}$ | $\begin{gathered} \text { () } \\ 303 \\ 77 \end{gathered}$ | $\begin{gathered} () \\ 303 \\ 77 \end{gathered}$ | ${ }_{303}$ | $\begin{gathered} (1) \\ 304 \\ 76 \end{gathered}$ | (')30575 | (1)30675 |
| Rubber and misc. plastics products |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Leather and leather products .......... |  |  |  |  |  |  |  |  |  | 76 |  |  | 75 |
| Service-producing | 43,859 | 43,977 | 44,084 | 44,230 | 44,283 | 44,454 | 44,582 | 44,710 | 44,841 | 44,980 | 45,099 | 45,321 | 45,538 |
| Transportation and public utllites | 1,6361,916 | $1,642$ | 1,580 | $1,630$ | $1,635$ | 1,642 | 1,677 | 1,680 | 1,687 | 1,690 | 1,692 | 1,702 | 1,713 |
| Wholesale trade |  | 1,923 | 1,928 | 1,931 | 1,933 | 1,943 | 1,94610,474 | 1,949 | 1,94710,484 | $10,474$ | 1,949 | 1,950 | $\begin{array}{r} 1,957 \\ 10,504 \end{array}$ |
| Retail trade | 10,429 | 10,441 | 10,468 | 10,469 | 10,469 | 10,489 |  | 10,497 |  |  | 10,483 |  |  |
| Finance, insurance, and real estate | $\begin{array}{r} 4,213 \\ 16,444 \end{array}$ | 4,220 | 4,232 | 4,244 | 4,246 | 4,257 | 4,267 | 4,278 | 4,287 | 4,29 | 4,303 | 4,30 | 4,31 |
| Services |  | 16,477 | 16,532 | 16,606 | 16,640 | 16,741 | 16,807 | 16,844 | 16,939 | 17,008 | 17,049 | 17,121 | 17,240 |
| Government. | 9,221 | 9,274 | 9,344 | 9,350 | 9,360 | 9,382 | 9,411 | 9,462 | 9,497 | 9,563 | 9,623 | 9,757 | 9,810 |
| Federal ........ | 1,098 | 1,39 | 1,119 | 1,127 | 1,139 | 1,150 | 1,161 | 1,181 | 1,189 | 1,234 | 1,269 | 1,366 | 1,362 |
| State. | 2,069 | 2,074 | 2,075 | 2,085 | 2,077 | 2,082 | 2,075 | 2,088 | 2,097 | 2,104 | 2,107 | 2,115 | 2,134 |
| Local . | 6,054 | 6,091 | 6,150 | 6,138 | 6,144 | 6,150 | 6,175 | 6,193 | 6,211 | 6,225 | 6,247 | 6,276 | 6,314 |

${ }^{1}$ This series is not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular components and consequently cannot be separated with sufficient precision.
NOTE: Data in this table have been revised to reflect March 1989
benchmarks, conversion to the 1987 Standard Industrial Classification (SIC) system, and updated seasonal adjustment factors. See the article in this issue for additional information.

B-6. Production or nonsupervisory workers' on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted
(In thousands)

| Industry | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {P }}$ | Aug. ${ }^{\text {P }}$ |
| Total private | 73,610 | 73,746 | 73,838 | 74,045 | 74,115 | 74,300 | 74,512 | 74,545 | 74,496 | 74,651 | 74,827 | 74,787 | 74,709 |
| Goods-producing ................................................ | 17,843 | 17,786 | 17,764 | 17,759 | 17,696 | 17,662 | 17,810 | 17,742 | 17,667 | 17,673 | 17,651 | 17,608 | 17,515 |
| Mining | 504 | 505 | 507 | 512 | 514 | 518 | 521 | 523 | 527 | 530 | 537 | 535 | 526 |
| Construction ..................................................... | 4,076 | 4,077 | 4,086 | 4,103 | 4,058 | 4,135 | 4,205 | 4,158 | 4,094 | 4,120 | 4,107 | 4,067 | 4,026 |
| Manufacturing .................................................. | 13,263 | 13,204 | 13,171 | 13,144 | 13,124 | 13,009 | 13,084 | 13,061 | 13,046 | 13,023 | 13,007 | 13,006 | 12,963 |
| Durable goods | 7,615 | 7,567 | 7,541 | 7,519 | 7,506 | 7,400 | 7,488 | 7,479 | 7,461 | 7,450 | 7,439 | 7,433 | 7,388 |
| Lumber and wood products | 623 | 620 | 622 | 621 | 621 | 622 | 620 | 620 | 619 | 617 | 612 | 610 | 607 |
| Furniture and fixtures ............ | 419 | 417 | 415 | 414 | 412 | 412 | 411 | 411 | 409 | 408 | 408 | 405 | 405 |
| Stone, clay, and glass products . | 443 | 440 | 442 | 443 | 442 | 443 | 444 | 440 | 436 | 434 | 432 | 428 | 427 |
| Primary metal industries .................................. | 589 | 584 | 581 | 578 | 576 | 572 | 575 | 573 | 574 | 574 | 574 | 577 | 573 |
| Blast furnaces and basic steel products .... | 214 | 212 | 211 | 209 | 210 | 209 | 208 | 207 | 208 | 208 | 207 | 207 | 207 |
| Fabricated metal products ............. | 1,068 | 1,063 | 1,059 | 1,055 | 1,052 | 1,039 | 1,044 | 1,044 | 1,047 | 1,045 | 1,043 | 1,046 | 1,045 |
| Industrial machinery and equipment ................ | 1,289 | 1,285 | 1,277 | 1,282 | 1,282 | 1,284 | 1,280 | 1,276 | 1,274 | 1,274 | 1,270 | 1,269 | 1,261 |
| Electronic and other electrical equipment ......... | 1,108 | 1,104 | 1,101 | 1,096 | 1,090 | 1,086 | 1,083 | 1,084 | 1,082 | 1,080 | 1,078 | 1,070 | 1,061 |
| Transportation equipment ....... | 1,283 | 1,266 | 1,257 | 1,248 | 1,250 | 1,154 | 1,244 | 1,246 | 1,239 | 1,238 | 1,250 | 1,255 | 1,241 |
| Motor vehicles and equipment | 670 | 649 | 639 | 632 | 635 | 543 | 634 | 632 | 628 | 626 | 634 | 633 | 622 |
| Instruments and related products. | 509 | 506 | 505 | 502 | 499 | 503 | 503 | 503 | 502 | 499 | 495 | 493 | 491 |
| Miscel'mneous manufacturing ....... | 284 | 282 | 282 | 280 | 282 | 285 | 284 | 282 | 279 | 281 | 277 | 280 | 277 |
| Nondurable goods | 5,648 | 5,637 | 5,630 | 5,625 | 5,618 | 5,609 | 5,596 | 5,582 | 5,585 | 5,573 | 5,568 | 5,573 | 5,575 |
| Food and kindred products. | 1,180 | 1,183 | 1,184 | 1,183 | 1,182 | 1,185 | 1,183 | 1,183 | 1,188 | 1,187 | 1,179 | 1,184 | 1,187 |
| Tobacco products ........................................... | 36 | 36 | 36 | 36 | 35 | 35 | 35 | 35 | 33 | 34 | 34 | 34 | 35 |
| Textile mill products | 626 | 622 | 622 | 619 | 617 | 615 | 612 | 609 | 609 | 604 | 603 | 602 | 601 |
| Apparel and other textile products .. | 907 | 903 | 898 | 896 | 894 | 886 | 879 | 870 | 869 | 865 | 863 | 861 | 861 |
| Paper and allied products ............................... | 523 | 522 | 522 | 522 | 523 | 524 | 525 | 524 | 525 | 523 | 525 | 526 | 528 |
| Printing and publishing... | 868 | 867 | 867 | 870 | 873 | 875 | 876 | 876 | 875 | 876 | 877 | 878 | 880 |
| Chemicals and allied products ........................ | 605 | 604 | 605 | 605 | 605 | 604 | 603 | 601 | 601 | 601 | 600 | 601 | 597 |
| Petroleum and coal products .......................... | 103 | 103 | 103 | 104 | 103 | 103 | 104 | 105 | 104 | 104 | 105 | 105 | 105 |
| Rubber and misc. plastics products ................. | 688 | 685 | 682 | 679 | 677 | 673 | 670 | 670 | 673 | 672 | 676 | 678 | 678 |
| Leather and leather products .......................... | 112 | 112 | 111 | 111 | 109 | 109 | 109 | 109 | 108 | 107 | 106 | 104 | 103 |
| Service-producing | 55,767 | 55,960 | 56,074 | 56,286 | 56,419 | 56,638 | 56,702 | 56,803 | 56,829 | 56,978 | 57,176 | 57,179 | 57,194 |
| Transportation and public utilities .................... | 4,626 | 4,700 | 4,718 | 4,737 | 4,801 | 4,821 | 4,826 | 4,833 | 4,831 | 4,848 | 4,866 | 4,854 | 4,856 |
| Wholesale trade | 5,066 | 5,071 | 5,081 | 5,094 | 5,099 | 5,116 | 5,111 | 5,111 | 5,109 | 5,106 | 5,130 | 5,119 | 5,120 |
| Retall trade ....................................................... | 17,396 | 17,402 | 17,425 | 17,475 | 17,465 | 17,550 | 17,497 | 17,506 | 17,517 | 17,533 | 17,563 | 17,583 | 17,541 |
| Finance, insurance, and real estate .................. | 4,882 | 4,897 | 4,901 | 4,914 | 4,923 | 4,938 | 4,958 | 4,960 | 4,961 | 4,970 | 4,970 | 4,967 | 4,974 |
| Services ............................................................ | 23,797 | 23,890 | 23,949 | 24,066 | 24,131 | 24,213 | 24,310 | 24,393 | 24,411 | 24,521 | 24,647 | 24,656 | 24,703 |

${ }^{1}$ Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
$\mathrm{p}=$ preliminary.

NOTE: Data in this table have been revised to reflect March 1989 benchmarks, conversion to the 1987 Standard Industrial Classification (SIC) system, and updated seasonal adjustment factors. See the article in this issue for additional information.

## B-7. Diffusion indexes of employment change, seasonally adjusted

(Percent)

| Time span | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Private nonfarm payrolis, 356 industries ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Over 1-month span: <br> 1989. $\qquad$ <br> 1990 $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 64.5 | 58.7 | 58.0 | 57.0 | 55.6 | 57.3 | 55.8 | 57.7 | 50.0 | 55.2 | 59.6 | 56.6 |
|  | 55.6 | 58.6 | 53.7 | 49.9 | 55.8 | 49.9 | P 50.4 | ${ }^{\text {P }} 46.9$ |  |  |  |  |
| Over 3-month span: <br> 1989 $\qquad$ <br> 1990 $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 65.3 | 64.2 | 60.0 | 60.1 | 59.7 | 58.3 | 59.7 | 54.5 | 55.2 | 55.8 | 57.7 | 60.3 |
|  | 58.4 | 56.7 | 54.8 | 53.1 | 53.7 | P 54.6 | P 51.3 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 67.6 | 65.4 | 65.0 | 61.0 | 61.2 | 58.7 | 57.0 | 58.1 | 56.2 | 58.3 | 57.4 | 58.4 |
|  | 57.3 | 56.5 | 55.5 | ${ }^{\text {P }} 54.4$ | ${ }^{\text {P }} 50.8$ |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { Over 12-month span: } \\ & 1989 \text {................................................................................... } \\ & 1990 \end{aligned}$ | $\begin{array}{r} 67.1 \\ \hline 54.1 \end{array}$ | $\begin{array}{r} 67.7 \\ \text { ค } 54.2 \end{array}$ | 65.3 | 64.6 | 64.9 | 61.2 | 60.0 | 59.8 | 58.6 | 57.3 | 56.7 | 56.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Over 1-month span:$1989 \text {..................................................................... }$ | Manufacturing payrolls, 139 industries ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 60.4 | 48.6 | 50.4 | 47.1 | 45.3 | 45.7 | 45.0 | 45.7 | 34.2 | 48.6 | 43.5 | 48.2 |
|  | 42.4 | 45.7 | 45.3 | 46.8 | 45.7 | 40.3 | $\bigcirc 46.8$ | ${ }^{\circ} 41.4$ |  |  |  |  |
| Over 3-month span: $1989$ $\qquad$ <br> 1990 $\qquad$ | $\begin{aligned} & 54.0 \\ & 40.3 \end{aligned}$ | $\begin{aligned} & 54.7 \\ & 37.1 \end{aligned}$ | $\begin{aligned} & 45.3 \\ & 44.2 \end{aligned}$ | $\begin{aligned} & 43.9 \\ & 41.4 \end{aligned}$ | $\begin{aligned} & 43.2 \\ & 40.6 \end{aligned}$ | $\begin{array}{r} 42.8 \\ \hline 42.8 \end{array}$ | $\begin{array}{r} 41.7 \\ \times 40.6 \end{array}$ | 33.1 | 36.3 | 34.9 | 41.7 | 39.2 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Over 6-month span: <br> 1989 $\qquad$ <br> 1990 $\qquad$ | $\begin{aligned} & 56.5 \\ & 37.1 \end{aligned}$ | $\begin{aligned} & 49.6 \\ & 35.6 \end{aligned}$ | $\begin{aligned} & 49.3 \\ & 36.3 \end{aligned}$ | $\begin{array}{r} 43.5 \\ \mathrm{P} 41.0 \end{array}$ | $\begin{array}{r} 42.1 \\ \text { P } 37.4 \end{array}$ | 37.1 | 36.7 | 34.9 | 34.2 | 35.3 | 33.1 | 36.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Over 12-month span:$\qquad$ | $\begin{array}{r} 53.6 \\ \text { م } 30.2 \end{array}$ | $\begin{array}{r} 55.0 \\ \mathbf{~} 32.0 \end{array}$ | 49.3 | 45.3 | 43.9 | 39.9 | 37.1 | 35.6 | 33.8 | 32.4 | 30.9 | 31.7 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 Based on seasonally adjusted data for 1-, 3-, and 6-month spans and unadjusted data for the 12 -month span. Data are centered within the span. <br> $P=$ preliminary. <br> NOTE: Figures are the percent of industries with employment increasing plus one-half of the industries with unchanged employment, where 50 percent <br> indicates an equal balance between industries with increasing and decreasing employment. Data in this table have been revised to reflect March 1989 benchmarks, conversion to the 1987 Standard Industrial Classification (SIC) system, and updated seasonal adjustment factors. See the article in this issue for additional information. |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## B-8. Employees on nonfarm payrolis in States and selected areas by major industry

(In thousands)

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ |
| Alabama | 1,585.8 | 1,605.5 | 1,605.8 | 7.4 | 12.0 | 12.1 | 76.9 | 78.6 | 78.4 |
| Birmingham | 409.4 | 418.7 | 418.7 | 3.4 | 5.6 | 5.6 | 23.2 | 23.1 | 23.2 |
| Huntsville .... | 132.4 | 134.6 | 135.1 | (1) | (1) | ${ }^{1}{ }^{1}$ | 5.2 | 5.2 | 5.4 |
| Mobile | 171.0 | 174.2 | 175.2 | (1) | (1) | (1) | 10.5 | 10.6 | 10.5 |
| Montgomery | 132.9 | 134.7 | 135.5 | (1) | (1) | (1) | 7.2 | 7.2 | 7.2 |
| Tuscaloosa ........... | 59.3 | 63.8 | 63.5 | . 8 | 2.6 | 2.6 | 3.7 | 4.3 | 4.3 |
| Alaska ............................................................................................... | 249.0 | 245.0 | 251.5 | 10.5 | 11.4 | 11.6 | 12.5 | 12.6 | 13.2 |
| Arizona .............................................................................................. | 1,413.3 | 1,480.5 | 1,470.3 | 12.2 | 12.8 | 12.3 | 86.9 | 84.0 | 84.3 |
| Phoenix | 939.1 | 983.8 | 977.0 | . 9 | . 9 | . 9 | 58.4 | 55.3 | 55.9 |
| Tucson .............................................................................................. | 239.1 | 248.7 | 246.5 | 2.1 | 2.3 | 2.2 | 15.1 | 14.8 | 14.6 |
| Arkansas | 890.1 | 924.9 | 912.9 | 4.2 | 4.3 | 4.2 | 34.9 | 35.4 | 35.5 |
| Fayetteville-Springdale | 53.2 | 54.7 | 54.7 | (') | (1) | (1) | 1.7 | 1.7 | 1.8 |
| Fort Smith | 79.9 | 80.3 | 80.7 | . 9 | 1.0 | 1.0 | 2.6 | 2.5 | 2.6 |
| Little Rock-North Little Rock | 244.5 | 249.7 | 247.1 | . 4 | . 4 | . 4 | 10.3 | 10.5 | 10.8 |
| Pine Bluff ......................................................................................... | 33.3 | 33.6 | 32.7 | ( ${ }^{1}$ ) | (1) | (') | 1.5 | 1.6 | 1.4 |
| California | 12,455.0 | 12,869.7 | 12,773.0 | 42.4 | 42.0 | 42.2 | 657.9 | 664.8 | 666.6 |
| Anaheim-Santa Ana | 1,197.5 | 1,228.4 | 1,221.3 | 1.3 | 1.3 | 1.3 | 74.4 | 71.3 | 71.5 |
| Bakersfield | 165.2 | 171.6 | 168.2 | 13.7 | 14.4 | 14.5 | 11.0 | 11.0 | 11.3 |
| Fresno | 219.0 | 232.0 | 233.6 | . 7 | . 7 | . 7 | 13.6 | 14.5 | 14.8 |
| Los Angeles-Long Beach | 4,195.5 | 4,317.5 | 4,271.0 | 9.4 | 9.8 | 9.9 | 154.3 | 158.6 | 157.0 |
| Modesto .......................................................................................... | 118.0 | 119.3 | 122.8 | . 1 | . 1 | . 1 | 8.3 | 9.2 | 9.1 |
| Oakland | 884.0 | 920.9 | 916.6 | 4.1 | 4.3 | 4.3 | 54.1 | 56.2 | 56.6 |
| Oxnard-Ventura ................................................................................ | 227.3 | 235.2 | 233.9 | 2.5 | 2.4 | 2.4 | 17.6 | 18.3 | 18.3 |
| Riverside-San Bernardino | 675.1 | 719.0 | 711.8 | 1.4 | 1.4 | 1.4 | 67.0 | 69.4 | 70.6 |
| Sacramento ...................................................................................... | 597.7 | 623.9 | 621.9 | . 8 | . 8 | . 8 | 37.3 | 38.9 | 38.7 |
| San Diego | 958.4 | 1,002.7 | 991.9 | . 8 | . 8 | . 8 | 64.5 | 65.0 | 64.8 |
| San Francisco | 956.5 | 974.8 | 974.6 | . 6 | . 6 | . 6 | 34.7 | 34.8 | 35.2 |
| San Jose | 831.6 | 835.0 | 834.1 | . 2 | . 2 | . 2 | 34.3 | 33.8 | 34.5 |
| Santa Barbara-Santa Maria-Lompoc ................................................. | 147.8 | 152.6 | 150.1 | 1.4 | 1.4 | 1.4 | 7.0 | 7.1 | 7.1 |
| Santa Rosa-Petaluma | 133.5 | 143.7 | 140.7 | . 7 | . 7 | . 7 | 11.4 | 11.2 | 11.4 |
| Stockton ........ | 153.9 | 154.7 | 156.5 | . 1 | . 1 | . 1 | 9.1 | 9.1 | 9.2 |
| Vallejo-Fairfield-Napa ....................................................................... | 136.0 | 141.5 | 142.6 | . 6 | . 7 | . 7 | 10.5 | 11.6 | 11.8 |
| Colorado | 1,469.5 | 1,512.9 | 1,502.1 | 19.8 | 19.6 | 19.8 | 63.7 | 62.5 | 62.8 |
| Boulder-Longmont ........................................................................... | 112.3 | 115.7 | 114.5 | ( ${ }^{1}$ | ( ${ }^{1}$ |  | 4.2 | 4.3 | 4.3 |
| Denver ............................................................................................. | 818.7 | 842.6 | 836.0 | 11.7 | 11.4 | 11.4 | 32.9 | 35.7 | 35.7 |
| Connecticut ........................................................................................ | 1,678.2 | 1,687.6 | 1,668.8 | 1.4 | 1.3 | 1.3 | 81.6 | 71.0 | 72.5 |
| Bridgeport-Milford .............................................................................. | 196.6 | 197.9 | 193.1 | ( ${ }^{2}$ ) | (2) | (2) | 9.1 | 8.4 | 8.6 |
| Hartford ............ | 485.4 | 491.0 | 485.2 | (1) | (1) | (1) | 21.9 | 19.1 | 19.8 |
| New Britain ...................................................................................... | 66.7 | 68.4 | 65.8 | ${ }^{(2)}$ | ${ }^{(2)}$ | (2) | 5.8 | 4.6 | 4.6 |
| New Haven-Meriden | 258.0 | 256.0 | 251.2 | (1) | (1) | (1) | 13.8 | 11.0 | 11.2 |
| Stamtord ........................................................................................... | 126.6 | 125.5 | 124.4 | (1) | $\left.{ }^{1}\right)$ | (1) | 5.7 | 5.1 | 5.2 |
| Waterbury ........................................................................................ | 86.1 | 87.8 | 83.8 | (2) | (2) | $\left.{ }^{2}\right)$ | 4.5 | 4.4 | 4.4 |
| Delaware | 344.1 | 353.6 | 349.1 | . 1 | . 1 | . 1 | 21.0 | 20.0 | 20.0 |
| Wilmington ........................................................................................ | 291.1 | 303.3 | 295.8 | . 2 | . 2 | . 2 | 19.1 | 18.3 | 18.5 |
| District of Columbia .......................................................................... | 692.3 | 691.9 | 697.4 | . 1 | . 1 | . 1 | 14.5 | 14.1 | 14.0 |
| Washington MSA ............................................................................. | 2,252.7 | 2,271.6 | 2,263.6 | 1.1 | 1.1 | 1.1 | 153.0 | 142.7 | 143.4 |
| Fiorida | 5,195.9 | 5,497.9 | 5,429.8 | 9.4 | 9.5 | 9.3 | 342.9 | 333.4 | 331.7 |
| Daytona Beach | 120.8 | 124.1 | 123.0 | (2) | $\left.{ }^{2}\right)$ | (2) | 8.2 | 7.6 | 7.7 |
| Fort Lauderdale-Hollywood-Pompano Beach .................................... | 496.1 | 517.7 | 508.8 | . 3 | . 3 | . 3 | 35.5 | 34.1 | 34.5 |
| Fort Myers-Cape Coral ..................................................................... | 121.9 | 133.4 | 131.6 | $\left.{ }^{(2}\right)$ | ${ }^{(2)}$ | ${ }^{2}$ ) | 13.7 | 12.5 | 12.7 |
| Gainesville ........................................................................................ | 97.2 | 100.0 | 99.2 | ${ }^{(2)}$ | $\left.{ }^{2}\right)$ | (2) | 4.6 | 4.3 | 4.2 |
| Jacksonville | 413.3 | 428.0 | 424.1 | . 7 | . 7 | . 7 | 27.3 | 27.5 | 27.3 |
| Lakeland-Winter Haven | 152.6 | 157.9 | 155.9 | 4.1 | 4.0 | 3.9 | 9.1 | 8.5 | 8.6 |
| Melbourne-Titusville-Palm Bay . | 159.9 | 164.8 | 164.2 | ${ }^{(2)}$ | $\left.{ }^{2}\right)$ | $\left.{ }^{2}\right)$ | 9.6 | 9.0 | 9.1 |
| Miami-Hialeah | 863.3 | 898.3 | 890.5 | . 9 | 1.0 | . 9 | 40.3 | 40.3 | 40.4 |
| Orlando .. | 540.7 | 565.4 | 559.1 | (2) | ( ${ }^{2}$ ) | ${ }^{(2)}$ | 36.7 | 37.1 | 37.0 |
| Pensacola | 126.8 | 130.0 | 128.2 | . 4 | . 4 | . 4 | 8.3 | 8.3 | 8.2 |
| Sarasota | 111.6 | 115.5 | 113.9 | ${ }^{(2)}$ | ${ }^{(2)}$ | (2) | 10.3 | 10.3 | 10.3 |
| Tallahassee ..................................................................................... | 118.3 | 124.5 | 122.8 | (2) | $\left.{ }^{2}\right)$ | (2) | 6.1 | 6.2 | 6.2 |
| Tampa-St. Petersburg-Clearwater ................................................... | 854.5 | 881.8 | 876.7 | (2) 6 | (2). 7 | . 7 | 54.3 | 55.0 | 55.0 |
| West Palm Beach-Boca Raton-Delray Beach ................................... | 345.1 | 366.1 | 356.5 | $\left(^{2}\right)$ | $\left({ }^{2}\right)$ | ${ }^{(2)}$ | 29.0 | 27.5 | 27.4 |

[^9]
## B-8. Employees on nonfarm payrolls in States and selected areas by major Industry-Continued

(In thousands)

| State and area | Manufacturing |  |  | Transportation and public utilities |  |  | Wholesale and retail trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ \text { 1990 } \end{gathered}$ |
| Alabama | 382.0 | 383.9 | 380.8 | 80.3 | 80.8 | 81.0 | 348.9 | 349.6 | 349.8 |
| Birmingham .... | 57.2 | 58.1 | 57.1 | 32.4 | 32.3 | 32.5 | 101.4 | 101.9 | 102.0 |
| Huntsville ........................................................................ | 33.0 | 33.6 | 33.9 | 2.8 | 2.9 | 2.9 | 25.3 | 25.4 | 25.7 |
| Mobile ........... | 26.4 | 28.0 | 27.6 | 9.7 | 10.0 | 9.9 | 46.2 | 47.2 | 47.4 |
| Monlgomery ..................................................................................... | 18.6 | 18.1 | 18.3 | 5.3 | 5.2 | 5.1 | 30.4 | 30.7 | 30.8 |
| Tuscaloosa .............................................................................. | 10.4 | 10.7 | 10.8 | 2.0 | 2.2 | 2.2 | 12.7 | 12.9 | 13.0 |
| Alaska . | 25.3 | 20.1 | 26.0 | 26.0 | 20.9 | 21.1 | 47.5 | 48.1 | 48.8 |
| Arizona | 187.3 | 189.4 | 189.2 | 77.3 | 80.5 | 80.6 | 359.6 | 376.5 | 372.6 |
| Phoenix. | 139.0 | 140.3 | 140.2 | 53.7 | 56.7 | 56.6 | 241.8 | 253.7 | 251.1 |
| Tucson .................................................................................... | 27.5 | 27.2 | 27.2 | 10.0 | 9.7 | 9.8 | 57.2 | 59.2 | 58.5 |
| Arkansas | 231.4 | 234.1 | 232.6 | 54.8 | 55.2 | 55.3 | 206.7 | 213.7 | 214.3 |
| Fayetteville-Springdale .... | 13.4 | 13.7 | 13.6 | 5.1 | 4.9 | 5.0 | 12.3 | 12.6 | 12.6 |
| Fort Smith ................... | 26.3 | 26.7 | 28.6 | 4.3 | 4.3 | 4.4 | 16.9 | 16.7 | 16.5 |
| Little Rock-North Little Rock .......................... | 33.6 | 33.2 | 32.9 | 16.5 | 16.1 | 16.0 | 80.4 | 61.5 | 61.7 |
| Pine Blutf ................................................................................... | 6.5 | 6.3 | 6.3 | 2.7 | 2.6 | 2.6 | 7.4 | 7.5 | 7.4 |
| Calliornia | 2,168.9 | 2,136.2 | 2,137.2 | 607.1 | 610.3 | 613.3 | 2,962.9 | 3,031.6 | 3,032.0 |
| Anaheim-Santa Ana ................................................................ | 259.2 | 258.9 | 258.0 | 34.8 | 35.8 | 36.0 | 305.0 | 311.1 | 311.1 |
| Bakersfield ............................................................................ | 10.6 | 10.8 | 10.8 | 8.2 | 8.4 | 8.4 | 40.0 | 39.8 | 40.1 |
| Fresno .......................................................................... | 25.7 | 24.8 | 26.6 | 12.4 | 12.4 | 12.5 | 56.9 | 59.6 | 59.7 |
| Los Angeles-Long Beach ... | 885.3 | 880.0 | 867.0 | 214.1 | 215.2 | 216.5 | 961.8 | 981.4 | 976.9 |
| Modesto ......................... | 28.7 | 23.6 | 28.6 | 4.7 | 4.8 | 4.9 | 29.5 | 30.2 | 30.5 |
| Oakland .. | 115.9 | 116.8 | 117.7 | 59.7 | 61.6 | 62.6 | 217.7 | 224.1 | 225.2 |
| Oxnard-Ventura | 30.7 | 31.2 | 31.1 | 11.8 | 11.4 | 11.4 | 56.6 | 58.7 | 58.6 |
| Riverside-San Bemardino ................................................................. | 88.9 | 89.5 | 90.4 | 32.9 | 34.0 | 34.2 | 168.3 | 174.9 | 174.7 |
| Sacramento ................................................................... | 44.6 | 45.6 | 47.1 | 27.3 | 27.4 | 28.0 | 141.6 | 144.6 | 145.1 |
| San Diego .................................................................................... | 135.6 | 135.0 | 135.4 | 35.9 | 36.5 | 36.5 | 235.3 | 242.3 | 243.0 |
| San Francisco .............................................................................. | 81.6 | 61.3 | 61.0 | 77.7 | 79.4 | 79.8 | 218.6 | 218.1 | 218.3 |
| San Jose .................................................................................. | 273.7 | 265.0 | 268.1 | 22.2 | 22.5 | 22.5 | 170.7 | 170.2 | 170.6 |
| Santa Barbara-Santa Maria-Lompoc ................................................ | 22.9 | 22.7 | 22.6 | 5.3 | 5.4 | 5.4 | 34.6 | 34.8 | 35.0 |
| Santa Rosa-Petaluma .......................... | 21.2 | 21.3 | 21.2 | 6.4 | 6.6 | 6.7 | 34.5 | 37.1 | 37.5 |
| Stockton ........................................................................ | 28.4 | 24.3 | 26.6 | 9.2 | 8.6 | 8.9 | 36.1 | 36.3 | 36.6 |
| Vallejo-Fairfield-Napa ................................................................................ | 13.6 | 12.8 | 13.8 | 4.8 | 5.3 | 5.4 | 33.0 | 34.7 | 34.8 |
| Colorado | 194.2 | 195.3 | 195.9 | 93.3 | 93.5 | 93.8 | 362.2 | 368.9 | 371.7 |
| Boulder-Longmont ........................................................................ | 30.9 | 30.7 | 30.5 | 2.4 | 2.4 | 2.4 | 23.9 | 24.1 | 24.2 |
| Denver ................................................................................................ | 96.6 | 97.2 | 97.3 | 67.6 | 68.1 | 68.4 | 201.0 | 203.6 | 204.6 |
| Connecticut. | 353.5 | 351.6 | 344.8 | 71.1 | 72.5 | 72.1 | 383.8 | 383.6 | 379.7 |
| Bridgeport-Milford | 52.3 | 51.2 | 49.2 | 8.4 | 8.8 | 8.6 | 45.4 | 45.2 | 44.3 |
| Hartiord | 85.0 | 86.8 | 86.0 | 18.3 | 18.9 | 18.7 | 104.1 | 102.9 | 100.8 |
| New Britain | 19.4 | 19.7 | 18.4 | 3.0 | 3.7 | 3.5 | 13.8 | 14.4 | 13.8 |
| New Haven-Meriden ........ | 46.3 | 45.2 | 44.2 | 16.4 | 16.4 | 16.3 | 59.6 | 58.1 | 57.1 |
| Stamford ..................... | 21.2 | 19.4 | 19.2 | 5.8 | 6.0 | 6.0 | 30.0 | 30.1 | 29.6 |
| Waterbury ................................................................................................ | 20.5 | 22.4 | 19.0 | 3.3 | 3.4 | 3.3 | 17.9 | 17.0 | 16.8 |
| Delaware | 67.6 | 72.3 | 69.8 | 14.2 | 15.1 | 15.0 | 77.7 | 76.1 | 77.3 |
| Wilmington ............................................................................... | 56.7 | 61.5 | 58.5 | 15.2 | 16.6 | 16.8 | 61.7 | 62.2 | 61.8 |
| District of Columbla ................................................................ | 16.1 | 16.3 | 16.2 | 24.9 | 25.0 | 24.9 | 63.3 | 63.7 | 62.4 |
| Washington MSA .................................................................. | 90.4 | 89.5 | 89.3 | 110.2 | 113.3 | 113.1 | 439.9 | 445.2 | 444.5 |
| Florida | 533.8 | 539.4 | 533.5 | 264.7 | 280.9 | 280.7 | 1,425.4 | 1,483.4 | 1,476.2 |
| Daytona Beach . | 12.3 | 12.1 | 12.1 | 3.9 | 4.1 | 4.1 | 36.2 | 36.6 | 36.8 |
| Fort Lauderdale-Hollywood-Pompano Beach ..... | 45.0 | 46.0 | 45.2 | 22.6 | 23.8 | 23.6 | 146.6 | 153.0 | 150.9 |
| Fort Myers-Cape Coral .................................. | 6.2 | 6.3 | 6.3 | 5.2 | 5.8 | 5.8 | 36.1 | 39.7 | 39.7 |
| Gainesville ......................................................................... | 5.7 | 5.4 | 5.4 | 1.8 | 1.9 | 1.9 | 21.4 | 21.6 | 21.7 |
| Jacksonville ........................................................................................... | 38.6 | 38.5 | 38.5 | 28.7 | 29.3 | 26.9 | 111.1 | 113.7 | 114.1 |
| Lakeland-Winter Haven ................................................................... | 22.4 | 22.6 | 22.4 | 6.9 | 7.2 | 7.1 | 42.6 | 43.7 | 43.8 |
| Melbourne-Titusville-Palm Bay ............................................................ | 29.5 | 30.4 | 30.4 | 4.2 | 4.3 | 4.3 | 37.6 | 38.7 | 38.6 |
| Miami-Hialeah ......................................................................... | 90.8 | 91.6 | 91.0 | 67.6 | 73.0 | 73.2 | 236.2 | 244.1 | 243.3 |
| Orlando ............................................................................... | 55.0 | 53.6 | 53.1 | 27.9 | 29.0 | 29.0 | 142.9 | 147.1 | 146.6 |
| Pensacola ............................................................................ | 11.4 | 11.3 | 11.2 | 6.6 | 6.6 | 6.5 | 33.3 | 33.5 | 33.6 |
| Sarasota ...... | 8.6 | 8.7 | 6.5 | 3.6 | 3.5 | 3.6 | 33.0 | 33.4 | 33.1 |
| Tallahassee ........................................................................ | 5.0 | 5.0 | 5.0 | 3.0 | 3.1 | 3.1 | 26.2 | 27.2 | 27.3 |
| Tampa-St. Petersburg-Clearwater ................. | 95.3 | 95.7 | 95.1 | 40.6 | 42.3 | 42.1 | 238.3 | 245.6 | 245.0 |
| West Palm Beach-Boca Raton-Delray Beach .................................. | 33.5 | 34.0 | 33.5 | 13.6 | 14.3 | 14.3 | 92.1 | 98.2 | 95.6 |

See footnotes at end of table.

B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued

| State and area | Finance, insurance, and real estate |  |  | Services |  |  | Government |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ |
| Alabama .......................................................................................... | 71.4 | 71.7 | 72.1 | 304.3 | 308.6 | 308.4 | 314.6 | 320.3 | 323.4 |
| Birmingham | 29.1 | 28.7 | 29.0 | 98.3 | 101.4 | 101.6 | 64.4 | 67.6 | 67.7 |
| Huntsville ... | 3.9 | 3.9 | 3.9 | 31.8 | 32.5 | 32.5 | 30.4 | 31.1 | 30.8 |
| Mobile | 7.7 | 7.4 | 7.3 | 40.4 | 41.7 | 41.3 | 30.1 | 29.3 | 31.0 |
| Montgomery .................................................................................... | 7.8 | 7.8 | 7.8 | 30.5 | 31.3 | 31.6 | 33.1 | 34.4 | 34.7 |
| Tuscaloosa ...................................................................................... | 2.1 | 2.2 | 2.2 | 9.0 | 9.8 | 9.6 | 18.6 | 19.1 | 18.8 |
| Alaska ................................................................................................ | 10.8 | 10.9 | 10.9 | 50.6 | 51.0 | 51.7 | 66.0 | 70.0 | 68.2 |
| Arizona | 92.7 | 94.6 | 94.6 | 383.8 | 410.0 | 408.2 | 213.5 | 232.7 | 228.5 |
| Phoenix | 74.3 | 75.9 | 75.9 | 257.6 | 276.7 | 274.5 | 113.4 | 124.3 | 121.9 |
| Tucson .................................................................. | 11.4 | 11.6 | 11.6 | 70.5 | 74.5 | 74.5 | 45.3 | 49.4 | 48.1 |
| Arkansas | 38.8 | 39.0 | 39.1 | 177.2 | 185.5 | 186.6 | 142.1 | 157.7 | 145.3 |
| Fayetteville-Springdale | 1.6 | 1.6 | 1.5 | 8.9 | 9.4 | 9.5 | 10.2 | 10.8 | 10.7 |
| Fort Smith | 3.0 | 2.9 | 2.9 | 18.9 | 18.0 | 19.2 | 7.0 | 8.2 | 7.5 |
| Little Rock-North Little Rock ................................................... | 15.7 | 15.7 | 15.8 | 62.4 | 64.4 | 64.3 | 45.2 | 47.9 | 45.2 |
| Pine Bluff .................. | 1.3 | 1.2 | 1.2 | 7.0 | 7.0 | 7.0 | 6.9 | 7.4 | 6.8 |
| California | 839.8 | 861.6 | 863.7 | 3,268.1 | 3,392.7 | 3,400.0 | 1,907.9 | 2,130.5 | 2,018.0 |
| Anaheim-Santa Ana | 95.9 | 98.3 | 98.7 | 313.9 | 321.8 | 325.2 | 113.0 | 129.9 | 119.5 |
| Bakersfield | 8.5 | 6.8 | 6.8 | 35.7 | 35.6 | 35.4 | 39.5 | 44.8 | 40.9 |
| Fresno | 12.1 | 12.8 | 12.9 | 53.5 | 55.8 | 57.4 | 44.1 | 51.4 | 49.0 |
| Los Angeles-Long Beach | 292.2 | 300.3 | 300.5 | 1,172.1 | 1,218.3 | 1,218.3 | 506.3 | 553.9 | 524.9 |
| Modesto ...................... | 5.1 | 5.4 | 5.4 | 23.6 | 24.8 | 25.1 | 18.0 | 21.2 | 19.1 |
| Oakland. | 57.7 | 58.4 | 58.5 | 217.9 | 227.4 | 228.7 | 156.9 | 172.1 | 163.0 |
| Oxnard-Ventura | 11.4 | 11.9 | 11.9 | 54.2 | 56.6 | 56.6 | 42.5 | 44.7 | 43.6 |
| Riverside-San Bernardino | 28.6 | 30.3 | 30.4 | 155.4 | 167.1 | 165.7 | 132.6 | 152.4 | 144.4 |
| Sacramento ........... | 39.0 | 39.8 | 40.1 | 132.6 | 138.7 | 139.3 | 174.5 | 188.1 | 182.8 |
| San Diego ...................................... | 67.2 | 68.3 | 68.6 | 259.2 | 274.9 | 276.3 | 159.9 | 179.9 | 166.5 |
| San Francisco ................................................................................ | 110.1 | 110.2 | 110.6 | 301.5 | 308.7 | 310.6 | 131.5 | 141.7 | 138.5 |
| San Jose. | 32.8 | 32.7 | 32.7 | 214.2 | 219.5 | 218.2 | 83.5 | 91.1 | 87.3 |
| Santa Barbara-Santa Maria-Lompoc ................................................. | 8.6 | 8.7 | 8.7 | 41.7 | 41.9 | 42.1 | 26.3 | 30.6 | 27.8 |
| Santa Rose-Petaluma | 8.1 | 8.1 | 8.1 | 31.0 | 33.9 | 34.1 | 20.2 | 24.8 | 21.0 |
| Stockton .......................................................................................... | 9.6 | 9.5 | 9.5 | 32.2 | 32.8 | 33.0 | 31.2 | 34.0 | 32.6 |
| Vallejo-Fairfield-Napa ....................................................................... | 5.0 | 5.2 | 5.2 | 30.1 | 31.9 | 31.9 | 38.4 | 39.3 | 39.0 |
| Colorado | 96.8 | 97.2 | 97.2 | 387.3 | 397.6 | 401.0 | 252.2 | 278.3 | 259.9 |
| Boulder-Longmont ........................................................................... | 4.2 | 4.2 | 4.2 | 26.3 | 28.4 | 28.5 | 20.4 | 21.6 | 20.4 |
| Denver ............................................................................................ | 64.7 | 64.2 | 64.2 | 224.2 | 229.5 | 230.1 | 120.0 | 132.9 | 124.3 |
| Connecticut ........................................................................................ | 153.6 | 153.5 | 153.5 | 431.1 | 439.4 | 439.8 | 202.1 | 214.7 | 205.1 |
| Bridgeport-Milford | 12.6 | 12.4 | 12.3 | 50.7 | 51.7 | 51.6 | 18.1 | 20.2 | 18.5 |
| Hartford | 75.3 | 75.5 | 75.8 | 116.2 | 119.3 | 118.9 | 64.6 | 68.5 | 65.2 |
| New Britain | 3.6 | 3.4 | 3.4 | 14.6 | 15.8 | 15.4 | 6.5 | 6.8 | 6.7 |
| New Haven-Meriden ......................................................................... | 16.7 | 17.4 | 17.6 | 74.7 | 75.5 | 73.7 | 30.5 | 32.4 | 31.1 |
| Stamford .......................................................................................... | 14.2 | 14.3 | 14.4 | 39.4 | 39.4 | 39.6 | 10.3 | 11.2 | 10.4 |
| Waterbury ........................................................................................ | 4.5 | 4.2 | 4.2 | 22.8 | 23.3 | 23.3 | 12.6 | 13.1 | 12.8 |
| Delaware | 30.8 | 31.2 | 31.3 | 84.7 | 87.7 | 86.8 | 48.0 | 51.1 | 48.8 |
| Wilmington ..................................................................................... | 27.4 | 28.0 | 27.8 | 73.5 | 76.4 | 74.9 | 37.3 | 40.1 | 37.3 |
| District of Columbia ........................................................................... | 33.6 | 33.5 | 33.5 | 253.5 | 257.2 | 255.5 | 286.3 | 282.0 | 290.8 |
| Washington MSA ............................................................................ | 132.8 | 132.5 | 132.6 | 742.4 | 749.3 | 746.8 | 582.9 | 598.0 | 592.8 |
| Florlda | 373.8 | 378.6 | 379.0 | 1,501.1 | 1,611.1 | 1,602.5 | 744.8 | 861.6 | 816.9 |
| Daytona Beach ................................................................................ | 6.0 | 5.8 | 5.8 | 35.3 | 35.8 | 36.0 | 18.9 | 22.1 | 20.5 |
| Fort Lauderdale-Hollywood-Pompano Beach .................................... | 41.3 | 41.6 | 41.4 | 144.6 | 148.0 | 147.8 | 60.2 | 70.9 | 65.1 |
| Fort Myers-Cape Coral | 9.1 | 9.5 | 9.5 | 34.6 | 38.1 | 37.8 | 16.9 | 21.4 | 19.7 |
| Gainesville | 4.6 | 4.6 | 4.6 | 25.1 | 25.8 | 25.8 | 33.9 | 36.4 | 35.6 |
| Jacksonville .... | 40.1 | 41.1 | 41.2 | 109.2 | 114.5 | 114.2 | 57.6 | 62.7 | 59.2 |
| Lakeland-Winter Haven ................................................................... | 9.2 | 9.2 | 9.2 | 38.2 | 39.5 | 39.4 | 20.1 | 23.2 | 21.5 |
| Melbourne-Titusville-Palm Bay | 5.9 | 5.6 | 5.6 | 50.3 | 52.4 | 52.3 | 22.7 | 24.3 | 23.6 |
| Miami-Hialeah | 72.5 | 72.7 | 72.8 | 243.8 | 252.2 | 251.2 | 111.2 | 123.4 | 117.7 |
| Orlando ... | 33.7 | 33.5 | 33.6 | 186.5 | 199.7 | 200.0 | 55.8 | 65.3 | 59.7 |
| Pensacola ...................................................................................... | 5.4 | 5.3 | 5.3 | 33.1 | 34.1 | 34.0 | 28.3 | 30.5 | 29.0 |
| Sarasota ........................................................................................... | 8.1 | 8.0 | 8.0 | 35.8 | 37.9 | 37.7 | 12.2 | 13.7 | 12.7 |
| Tallahassee .................................................................................. | 5.2 | 5.1 | 5.2 | 25.9 | 26.4 | 26.4 | 46.7 | 51.2 | 49.3 |
| Tampa-St. Petersburg-Clearwater .................................................... | 65.9 | 65.5 | 65.5 | 256.6 | 268.3 | 266.2 | 102.9 | 108.7 | 107.1 |
| West Palm Beach-Boca Raton-Delray Beach ................................... | 29.1 | 30.0 | 29.9 | 106.7 | 114.2 | 111.9 | 41.1 | 47.9 | 43.9 |

See footnoles at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED

## B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued

(In thousands)

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ |
| Georgia | 2,950.3 | 3,021.6 | 3,006.2 | 8.7 | 8.7 | 8.7 | 149.9 | 147.3 | 149.1 |
| Albany | 47.5 | 49.2 | 48.0 |  | $\left.{ }^{2}\right)$ |  | 2.2 | 1.9 | 2.0 |
| Athens | 67.5 | 69.4 | 68.0 | . 1 | . 1 | . 1 | 2.7 | 2.8 | 2.9 |
| Atlanta | 1,458.8 | 1,495.0 | 1,489.9 | 1.3 | 1.2 | 1.1 | 69.1 | 68.8 | 68.9 |
| Augusta | 170.7 | 172.4 | 172.1 | . 5 | . 5 | . 6 | 15.1 | 15.6 | 15.5 |
| Columbus | 94.2 | 93.4 | 93.9 | . 1 | . 1 | . 1 | 4.8 | 4.2 | 4.3 |
| Macon-Warner Robins | 125.0 | 126.2 | 125.5 | . 1 | . 1 | . 2 | 5.3 | 5.2 | 5.2 |
| Savannah | 108.3 | 110.3 | 110.3 | ${ }^{(2)}$ | ${ }^{(2)}$ | (2) | 8.0 | 7.8 | 7.6 |
| Hawall | 506.7 | 520.7 | 518.1 | $\left({ }^{2}\right)$ | ${ }^{(2)}$ | ${ }^{(2)}$ | 30.1 | 29.3 | 29.2 |
| Honolulu | 396.9 | 408.3 | 404.8 | (2) | ( ${ }^{2}$ | ${ }^{(2)}$ | 23.1 | 22.1 | 22.0 |
| Idaho .................................................................................................. | 369.8 | 389.2 | 385.4 | 3.9 | 3.9 | 3.9 | 18.0 | 19.4 | 20.4 |
| Boise City ......................................................................................... | 100.3 | 105.5 | 105.3 | (1) | ( ${ }^{1}$ | ( ${ }^{1}$ | 6.2 | 6.1 | 6.1 |
| Illinois | 5,186.6 | 5,249.4 | 5,221.0 | 20.4 | 20.2 | 20.2 | 223.7 | 215.3 | 217.9 |
| Aurora-Elgin | 141.7 | 145.6 | 144.0 | (1) | (1) | (') | 7.7 | 7.6 | 7.9 |
| Bloomington-Normal | 62.2 | 63.4 | 63.0 | (1) | ( ${ }^{\text {( }}$ | ${ }^{(1)}$ | 3.3 | 3.1 | 3.3 |
| Champaign-Urbana-Rantoul ............................................................. | 85.0 | 88.5 | 86.7 | (1) | (1) | $\left({ }^{4}\right)$ | 2.9 | 2.4 | 2.6 |
| Chicago ........................................................................................... | 3,183.9 | 3,227.3 | 3,221.2 | 2.3 | 2.4 | 2.3 | 138.1 | 135.7 | 138.8 |
| Davenport-Rock Island-Moline | 162.1 | 166.1 | 164.7 | (1) | (1) | (1) | 6.4 | 6.1 | 6.3 |
| Decatur ................................... | 52.8 | 54.5 | 54.2 | (1) | (1) | (1) | 3.3 | 3.3 | 3.4 |
| Joliet | 103.1 | 105.5 | 104.0 | (1) | ( ${ }^{\text {a }}$ | (1) | 9.2 | 8.7 | 8.8 |
| Kankakee | 34.2 | 36.1 | 35.4 | (1) | (1) | (1) | 1.9 | 1.8 | 1.8 |
| Lake County | 211.2 | 219.5 | 217.4 | (1) | (') | $\left.{ }^{1}\right)$ | 14.8 | 11.4 | 11.9 |
| Peoria | 144.3 | 146.5 | 145.7 | (1) | ( ${ }^{1}$ | (1) | 7.1 | 6.9 | 6.9 |
| Rockford | 132.6 | 138.6 | 133.7 | (1) | (1) | (1) | 6.3 | 6.4 | 6.5 |
| Springtield ........................................................................................ | 102.8 | 105.3 | 104.3 | (1) | (1) | (') | 3.8 | 4.0 | 4.0 |
| Indiana | 2,449.2 | 2,532.3 | 2,520.4 | 6.4 | 8.1 | 8.1 | 124.5 | 131.3 | 136.3 |
| Anderson | 49.2 | 50.3 | 49.8 | (1) | (1) | (1) | 1.5 | 1.7 | 1.8 |
| Bloomington | 52.2 | 53.9 | 53.7 | (1) | ( ${ }^{1}$ | ( ${ }^{1}$ | 2.5 | 2.3 | 2.5 |
| Elkhart-Goshen | 104.7 | 109.0 | 108.6 | $\left.{ }^{1}\right)$ | (') | (') | 3.5 | 3.9 | 4.1 |
| Evansville | 134.6 | 138.8 | 139.0 | 1.9 | 2.0 | 2.1 | 8.4 | 8.8 | 9.4 |
| Fort Wayne | 201.3 | 208.7 | 206.7 | ${ }^{1}{ }^{1}$ | ${ }^{(1)}$ | ${ }^{(1)}$ | 9.9 | 11.3 | 11.6 |
| Gary-Hammond | 241.7 | 246.3 | 244.3 | (1) | (') | (') | 18.4 | 18.4 | 19.1 |
| Indianapolis ... | 658.3 | 669.1 | 671.1 | . 8 | . 8 | . 8 | 38.6 | 37.4 | 38.7 |
| Kokomo | 45.7 | 47.7 | 47.2 | (1) | ( ${ }^{1}$ | ( ${ }^{1}$ | 1.3 | 1.7 | 1.9 |
| Lafayette-West Lafayette | 65.3 | 69.3 | 68.3 | $\left.{ }^{1}\right)$ | (') | ( ${ }^{1}$ | 2.7 | 3.0 | 3.1 |
| Muncie | 49.6 | 53.1 | 52.2 | ${ }^{(1)}$ | ( ${ }^{\text {( }}$ | ${ }^{(1)}$ | 1.8 | 2.0 | 1.9 |
| South Bend-Mishawaka | 116.4 | 121.6 | 121.5 | (1) | (1) | (') | 7.4 | 8.5 | 9.0 |
| Terre Haute ................ | 54.5 | 56.2 | 56.2 | . 3 | . 4 | . 4 | 2.9 | 4.0 | 4.2 |
| Iowa .................................................................................................... | 1,198.2 | 1,236.3 | 1,219.9 | 2.2 | 2.2 | 2.2 | 46.0 | 49.6 | 52.3 |
| Cedar Rapids | 93.5 | 94.3 | 94.0 | (1) | (1) | (1) | 4.0 | 4.5 | 4.8 |
| Des Moines | 226.9 | 232.7 | 230.1 | (') | (1) | (') | 9.1 | 9.3 | 9.4 |
| Dubuque | 43.9 | 43.5 | 43.6 | (1) | (1) | $\left.{ }^{1}\right)$ | 1.7 | 1.9 | 2.2 |
| Iowa City | 51.8 | 56.6 | 56.2 | (1) | (1) | (1) | 1.9 | 2.1 | 2.2 |
| Sioux City ................. | 54.1 | 54.8 | 54.6 | $\left.{ }^{1}\right)$ | ${ }^{(1)}$ | ( ${ }^{1}$ | 2.3 | 2.2 | 2.3 |
| Waterloo-Cedar Falls | 65.7 | 68.2 | 68.0 | (') | (1) | (1) | 2.5 | 2.5 | 2.5 |
| Kansas | 1,060.1 | 1,096.2 | 1,080.5 | 9.5 | 9.9 | 9.9 | 44.0 | 45.4 | 45.6 |
| Lawrence . | 33.3 | 34.9 | 34.3 | ( ${ }^{1}$ | ( ${ }^{1}$ | (1) | 1.9 | 1.6 | 1.7 |
| Topeka ....................................................................................... | 89.6 | 92.4 | 90.8 | (') | ( ${ }^{\text {( }}$ | (') | 3.8 | 4.1 | 4.2 |
| Wichita ........................................................... | 235.8 | 240.5 | 236.9 | 1.7 | 1.9 | 1.8 | 9.9 | 10.0 | 9.8 |
| Kentucky ............................................................................................ | 1,437.0 | 1,477.8 | 1,472.8 | 34.4 | 34.2 | 33.8 | 71.1 | 71.0 | 72.1 |
| Lexington-Fayette ............................................................................. | 195.2 | 204.6 | 204.1 | . 3 | . 3 | . 3 | 11.7 | 12.4 | 12.5 |
| Louisville ................................................................. | 472.2 | 487.3 | 486.9 | . 6 | . 5 | . 5 | 24.3 | 24.1 | 24.6 |
| Owensboro | 35.5 | 36.6 | 36.7 | . 5 | . 5 | . 5 | 2.4 | 2.1 | 2.2 |
| Loulsiana .......................................................................................... | 1,509.2 | 1,530.4 | 1,524.4 | 54.7 | 54.9 | 55.1 | 80.2 | 81.3 | 82.0 |
| Alexandria. | 45.5 | 45.6 | 45.1 | . 2 | . 1 | . 1 | 2.8 | 2.3 | 2.5 |
| Baton Rouge | 226.9 | 231.2 | 231.7 | . 9 | . 8 | . 8 | 25.3 | 26.1 | 26.0 |
| Houma-Thibodaux | 55.1 | 57.8 | 58.2 | 5.4 | 5.6 | 5.7 | 1.9 | 2.0 | 2.2 |
| Lafayette ................... | 88.0 | 90.6 | 91.9 | 11.7 | 11.5 | 11.8 | 3.3 | 3.5 | 3.6 |
| Lake Charles ................................................................................... | 64.2 | 64.7 | 63.7 | 1.0 | 1.1 | 1.1 | 5.2 | 4.9 | 4.5 |
| Monroe ....... | 56.6 | 56.4 | 57.1 | . 4 | . 6 | . 5 | 2.8 | 2.5 | 2.6 |
| New Orleans ..................................................................................... | 523.3 | 528.8 | 530.8 | 14.7 | 14.5 | 14.6 | 21.8 | 22.8 | 23.3 |
| Shreveport ....................................................................................... | 129.9 | 132.0 | 130.8 | 3.1 | 3.1 | 3.1 | 5.4 | 5.9 | 6.1 |

See footnotes at end of table.

B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued
(In thousands)

| State and area | Manufacturing |  |  | Transportation and public utilities |  |  | Wholesale and retail trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ |
| Georgia | 570.0 | 585.0 | 560.2 | 184.3 | 189.5 | 190.4 | 756.5 | 769.9 | 771.9 |
| Albany . | 7.4 | 7.7 | 7.8 | 2.9 | 2.9 | 2.9 | 12.0 | 11.8 | 11.8 |
| Athens | 15.9 | 15.1 | 14.9 | 2.0 | 1.9 | 1.9 | 14.9 | 15.7 | 15.4 |
| Atlanta | 179.8 | 178.6 | 177.6 | 121.0 | 126.8 | 127.6 | 414.5 | 417.5 | 418.6 |
| Augusta | 38.0 | 38.4 | 38.1 | 4.6 | 4.8 | 4.7 | 36.9 | 36.5 | 36.8 |
| Columbus | 19.2 | 18.9 | 18.8 | 3.3 | 3.1 | 3.2 | 21.7 | 21.5 | 21.6 |
| Macon-Warner Robins | 18.7 | 18.7 | 18.4 | 5.3 | 5.3 | 5.4 | 28.6 | 28.8 | 28.9 |
| Savannah .................... | 17.2 | 17.7 | 17.8 | 9.2 | 9.8 | 9.6 | 26.7 | 26.5 | 26.9 |
| Hawall | 21.3 | 20.7 | 20.9 | 40.8 | 41.8 | 42.2 | 135.0 | 134.7 | 136.1 |
| Honolulu .......................................................................................... | 16.2 | 15.5 | 15.5 | 33.3 | 34.0 | 34.4 | 103.3 | 103.1 | 104.0 |
| Idaho | 62.7 | 63.8 | 84.4 | 19.4 | 19.6 | 19.5 | 95.3 | 100.0 | 99.6 |
| Boise City . | 15.0 | 16.7 | 16.7 | 5.8 | 5.9 | 5.9 | 26.2 | 27.6 | 27.9 |
| Illinois | 981.6 | 986.1 | 977.2 | 303.5 | 306.9 | 307.1 | 1,273.6 | 1,288.0 | 1,287.4 |
| Aurora-Elgin | 39.9 | 39.2 | 39.0 | 3.4 | 3.5 | 3.5 | 35.5 | 36.3 | 36.4 |
| Bloomington-Normal | 7.6 | 7.8 | 7.9 | 2.7 | 2.6 | 2.6 | 14.0 | 14.2 | 14.2 |
| Champaign-Urbana-Rantoul ............................................................. | 8.1 | 8.3 | 8.1 | 2.2 | 2.3 | 2.3 | 18.9 | 19.1 | 18.9 |
| Chicago .......... | 558.5 | 555.7 | 555.9 | 204.8 | 205.6 | 205.2 | 773.7 | 787.3 | 788.4 |
| Davenport-Rock Island-Moline ......................................................... | 32.5 | 34.0 | 33.8 | 7.3 | 7.4 | 7.4 | 46.6 | 46.8 | 47.0 |
| Decatur | 14.0 | 14.4 | 14.4 | 4.9 | 5.2 | 5.1 | 11.3 | 11.5 | 11.6 |
| Joliet | 18.9 | 19.0 | 18.9 | 8.4 | 8.8 | 8.5 | 23.6 | 24.5 | 24.4 |
| Kankakee | 5.5 | 5.7 | 5.6 | 2.2 | 2.0 | 2.0 | 8.8 | 9.2 | 9.3 |
| Lake County | 47.1 | 47.4 | 46.9 | 5.8 | 8.1 | 8.0 | 59.1 | 61.0 | 61.0 |
| Peoria | 33.8 | 33.5 | 33.7 | 6.8 | 6.9 | 6.9 | 35.4 | 35.0 | 35.1 |
| Rockford | 45.5 | 47.9 | 44.5 | 4.7 | 4.7 | 4.7 | 30.6 | 31.1 | 31.2 |
| Springfield | 3.8 | 3.9 | 3.7 | 4.7 | 4.7 | 4.7 | 23.3 | 23.4 | 23.4 |
| Indiana | 642.7 | 639.8 | 638.5 | 129.1 | 134.3 | 134.1 | 594.2 | 605.0 | 603.6 |
| Anderson | 16.3 | 16.3 | 16.1 | 1.4 | 1.4 | 1.4 | 12.1 | 11.9 | 11.9 |
| Bloomington | 9.6 | 9.3 | 9.3 | 1.7 | 1.8 | 1.8 | 11.5 | 10.9 | 10.8 |
| Elkhart-Goshen | 53.5 | 53.6 | 53.2 | 3.3 | 3.7 | 3.6 | 20.3 | 20.5 | 20.5 |
| Evansville.. | 31.3 | 31.9 | 31.8 | 8.9 | 7.1 | 7.1 | 35.3 | 35.4 | 35.4 |
| Fort Wayne | 55.0 | 53.7 | 53.4 | 13.7 | 13.1 | 13.1 | 49.2 | 49.4 | 49.0 |
| Gary-Hammond | 57.5 | 56.7 | 56.8 | 15.6 | 15.0 | 15.2 | 58.1 | 59.1 | 58.9 |
| Indianapolis ............ | 109.8 | 108.8 | 107.5 | 42.1 | 43.1 | 43.7 | 173.5 | 176.1 | 177.1 |
| Kokomo | 18.2 | 18.6 | 18.3 | 1.5 | 1.6 | 1.6 | 10.8 | 10.2 | 10.3 |
| Lafayette-West Lafayette | 13.0 | 13.0 | 13.1 | 1.8 | 1.9 | 1.8 | 14.1 | 14.8 | 14.9 |
| Muncie | 11.1 | 11.5 | 11.4 | 2.8 | 3.2 | 3.2 | 12.8 | 13.2 | 13.1 |
| South Bend-Mishawaka | 22.2 | 22.5 | 22.0 | 5.2 | 5.1 | 5.2 | 32.2 | 32.4 | 32.6 |
| Terre Haute ....... | 10.5 | 10.7 | 10.8 | 2.9 | 2.7 | 2.8 | 15.2 | 15.1 | 15.2 |
| Iowa | 236.7 | 235.6 | 234.7 | 56.7 | 56.2 | 55.9 | 310.8 | 318.1 | 318.0 |
| Cedar Rapids | 24.1 | 21.8 | 21.8 | 5.9 | 5.9 | 5.9 | 22.3 | 22.5 | 22.4 |
| Des Moines | 25.3 | 25.8 | 25.8 | 12.8 | 12.5 | 12.4 | 59.3 | 60.2 | 60.2 |
| Dubuque . | 12.9 | 12.5 | 12.7 | 1.7 | 1.8 | 1.7 | 10.5 | 10.3 | 10.3 |
| Iowa City | 4.4 | 4.6 | 4.5 | 1.3 | 1.5 | 1.4 | 10.4 | 10.9 | 10.9 |
| Sioux City ............ | 10.7 | 10.8 | 10.7 | 3.4 | 3.5 | 3.6 | 14.2 | 13.9 | 13.7 |
| Waterloo-Cedar Falls | 16.0 | 16.2 | 16.5 | 1.8 | 2.1 | 2.0 | 16.5 | 17.0 | 17.3 |
| Kansas | 185.9 | 187.0 | 187.3 | 86.4 | 86.7 | 66.9 | 268.8 | 272.3 | 271.8 |
| Lawrence | 4.6 | 4.7 | 4.7 | 1.1 | 1.1 | 1.1 | 7.8 | 8.2 | 8.1 |
| Topeka ................................. | 9.6 | 9.9 | 9.9 | 7.0 | 6.8 | 6.8 | 20.3 | 20.2 | 20.0 |
| Wichita ..................................... | 63.5 | 64.7 | 85.1 | 11.3 | 11.2 | 11.3 | 54.2 | 54.3 | 53.8 |
| Kentucky ............................................................................................ | 286.7 | 287.4 | 286.5 | 78.0 | 76.8 | 76.8 | 350.7 | 355.0 | 356.2 |
| Lexington-Fayette ............................................................................ | 33.2 | 33.5 | 33.4 | 9.1 | 9.1 | 9.1 | 44.6 | 44.2 | 44.1 |
| Louisville ............... | 88.7 | 89.4 | 89.4 | 30.7 | 30.1 | 30.0 | 119.7 | 122.0 | 122.5 |
| Owensboro | 6.3 | 6.6 | 6.4 | 2.3 | 2.3 | 2.3 | 9.5 | 10.0 | 9.8 |
| Louislana ........................................................................................... | 174.0 | 175.1 | 174.2 | 107.0 | 106.0 | 106.3 | 366.9 | 367.5 | 367.7 |
| Alexandria ... | 3.5 | 3.4 | 3.4 | 2.4 | 2.3 | 2.3 | 10.7 | 10.5 | 10.3 |
| Baton Rouge ............... | 21.1 | 21.9 | 22.1 | 10.5 | 10.5 | 10.4 | 53.7 | 54.4 | 54.5 |
| Houma-Thibodaux | 4.9 | 5.2 | 5.2 | 6.3 | 6.5 | 6.6 | 14.3 | 14.6 | 14.9 |
| Lafayette .................... | 7.4 | 8.2 | 8.3 | 6.2 | 6.1 | 6.1 | 24.0 | 24.5 | 24.8 |
| Lake Charles ........................................................................... | 11.5 | 11.7 | 11.4 | 4.1 | 4.0 | 4.2 | 15.0 | 15.5 | 15.1 |
| Monroe ............................................................................................ | 7.3 | 7.8 | 7.7 | 3.1 | 2.9 | 3.0 | 14.3 | 14.4 | 14.4 |
| New Orleans .................................................................................... | 44.4 | 43.3 | 43.9 | 43.4 | 43.3 | 43.2 | 136.7 | 135.9 | 136.5 |
| Shreveport ...................................................................................... | 17.6 | 17.7 | 17.2 | 8.5 | 8.5 | 8.5 | 32.5 | 32.9 | 33.1 |

[^10]ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued
(In thousands)

| State and area | Finance, insurance, and real estate |  |  | Services |  |  | Government |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ |
| Georgia | 165.5 | 164.5 | 165.0 | 614.1 | 637.9 | 636.9 | 501.4 | 538.6 | 524.2 |
| Albany | 2.1 | 2.1 | 2.1 | 8.7 | 8.9 | 8.8 | 12.2 | 13.8 | 12.6 |
| Athens | 2.1 | 2.0 | 2.0 | 11.3 | 11.8 | 11.5 | 18.6 | 20.0 | 19.2 |
| Atlanta | 107.3 | 106.1 | 106.8 | 360.7 | 374.6 | 373.8 | 205.1 | 221.7 | 215.4 |
| Augusta. | 5.7 | 5.5 | 5.4 | 35.0 | 35.4 | 35.5 | 34.8 | 35.7 | 35.4 |
| Columbus .................. | 5.9 | 5.8 | 5.7 | 18.3 | 18.5 | 18.6 | 20.8 | 21.4 | 21.6 |
| Macon-Warner Robins ...................................................................... | 7.3 | 7.5 | 7.6 | 25.0 | 24.9 | 24.9 | 34.6 | 35.7 | 34.9 |
| Savannah | 5.0 | 4.9 | 5.0 | 26.0 | 26.4 | 26.6 | 16.2 | 17.2 | 16.7 |
| Hawail | 35.2 | 36.0 | 36.2 | 145.3 | 150.9 | 151.0 | 99.0 | 107.3 | 102.5 |
| Honolulu | 28.6 | 29.3 | 29.4 | 109.9 | 114.8 | 115.0 | 82.5 | 89.5 | 84.5 |
| Idaho. | 19.3 | 19.9 | 19.8 | 77.8 | 79.9 | 80.8 | 73.4 | 82.6 | 77.0 |
| Boise City ...................................................................................... | 7.7 | 7.8 | 7.8 | 22.3 | 22.5 | 22.7 | 17.3 | 18.9 | 18.2 |
| Illinois ................................................................................................. | 377.8 | 374.7 | 375.9 | 1,298.8 | 1,312.9 | 1,318.8 | 707.2 | 745.3 | 718.5 |
| Aurora-Elgin .................................................................................... | 7.2 | 7.3 | 7.6 | 33.2 | 34.5 | 34.3 | 14.8 | 17.2 | 15.3 |
| Bloomington-Normal ......................................................................... | 11.0 | 11.1 | 11.0 | 13.5 | 13.9 | 13.8 | 10.1 | 10.7 | 10.2 |
| Champaign-Urbana-Rantoul ............................................................. | 3.2 | 3.2 | 3.2 | 18.1 | 18.5 | 18.3 | 31.6 | 34.7 | 33.3 |
| Chicago | 273.3 | 274.0 | 274.6 | 869.4 | 881.2 | 886.9 | 363.8 | 385.4 | 369.1 |
| Davenport-Rock Island-Moline | 7.7 | 7.9 | 7.8 | 35.8 | 36.7 | 36.7 | 25.8 | 27.2 | 25.7 |
| Decatur .............. | 2.3 | 2.3 | 2.3 | 11.7 | 11.9 | 11.8 | 5.3 | 5.9 | 5.6 |
| Joliet ...... | 3.6 | 3.6 | 3.6 | 23.9 | 24.1 | 24.0 | 15.5 | 17.0 | 15.8 |
| Kankakee ......................................................................................... | 1.3 | 1.3 | 1.3 | 8.6 | 9.4 | 9.4 | 5.9 | 6.7 | 6.0 |
| Lake County .................................................................................... | 10.4 | 10.3 | 10.3 | 44.6 | 51.1 | 51.1 | 29.4 | 32.2 | 30.2 |
| Peoria .............................................................................................. | 7.3 | 7.3 | 7.4 | 39.7 | 40.6 | 40.6 | 14.2 | 16.3 | 15.1 |
| Rockiord .......................................................................................... | 5.3 | 5.3 | 5.3 | 29.5 | 30.2 | 30.2 | 10.7 | 13.0 | 11.3 |
| Springfield ......................................................................................... | 8.4 | 8.3 | 8.3 | 28.4 | 26.7 | 26.6 | 32.4 | 34.3 | 33.6 |
| Indlana ............................................................................................... | 124.6 | 126.5 | 126.7 | 506.0 | 532.6 | 534.3 | 321.6 | 354.9 | 338.7 |
| Anderson .......................................................................................... | 1.6 | 1.5 | 1.5 | 10.7 | 11.3 | 11.4 | 5.5 | 6.3 | 5.7 |
| Bloomington .................................................................................... | 2.0 | 1.9 | 1.9 | 9.7 | 11.7 | 11.7 | 15.3 | 15.9 | 15.7 |
| Elkhart-Goshen ................................................................................ | 3.1 | 3.2 | 3.2 | 15.8 | 17.5 | 17.4 | 5.1 | 6.6 | 6.5 |
|  | 5.5 | 5.6 | 5.6 | 34.1 | 36.2 | 36.4 | 11.3 | 11.9 | 11.3 |
| Fort Wayne | 13.1 | 13.2 | 13.3 | 46.4 | 51.1 | 51.1 | 14.0 | 16.9 | 15.1 |
| Gary-Hammond | 8.5 | 8.5 | 8.6 | 54.6 | 56.7 | 56.3 | 28.9 | 31.7 | 29.4 |
| Indianapolis ... | 50.0 | 50.2 | 50.4 | 155.6 | 158.8 | 158.8 | 87.8 | 95.9 | 94.0 |
| Kokomo ........................................................................................... | 1.4 | 1.5 | 1.5 | 7.2 | 8.0 | 8.0 | 5.2 | 6.0 | 5.7 |
| Lafayette-West Lafayette .................................................................. | 3.2 | 3.2 | 3.2 | 13.4 | 15.1 | 14.8 | 17.2 | 18.3 | 17.5 |
| Muncie ............................................................................................. | 1.7 | 1.7 | 1.7 | 11.4 | 11.6 | 11.6 | 7.9 | 9.9 | 9.4 |
| South Bend-Mishawaka .................................................................... | 6.4 | 6.5 | 6.4 | 32.7 | 34.4 | 34.6 | 10.4 | 12.2 | 11.8 |
| Terre Haute .................... | 2.1 | 2.1 | 2.1 | 12.2 | 12.2 | 12.2 | 8.5 | 8.8 | 8.8 |
| Iowa ................................................................................................... | 69.8 | 71.8 | 72.2 | 273.3 | 281.7 | 279.6 | 202.7 | 221.1 | 205.0 |
| Cedar Rapids .................................................................................... | 4.7 | 4.8 | 4.9 | 22.7 | 23.5 | 23.6 | 9.8 | 11.3 | 10.6 |
| Des Moines .................................................................................... | 32.1 | 33.5 | 33.7 | 58.3 | 58.9 | 57.8 | 30.0 | 32.5 | 30.8 |
| Dubuque | 1.5 | 1.6 | 1.6 | 12.4 | 11.9 | 11.9 | 3.2 | 3.5 | 3.2 |
| lowa City | 1.5 | 1.5 | 1.5 | 9.3 | 9.9 | 9.6 | 23.0 | 26.1 | 26.1 |
| Sioux City ........................................................................................ | 2.6 | 2.7 | 2.7 | 14.2 | 14.7 | 14.7 | 8.7 | 7.0 | 6.9 |
| Waterloo-Cedar Falls ........................................................................ | 2.9 | 3.0 | 3.0 | 15.2 | 15.1 | 15.2 | 10.8 | 12.3 | 11.5 |
| Kansas .............................................................................................. | 58.5 | 60.0 | 59.8 | 235.0 | 242.4 | 242.2 | 192.0 | 212.5 | 197.0 |
| Lawrence ......................................................................................... | 1.5 | 1.5 | 1.6 | 7.2 | 7.5 | 7.4 | 9.2 | 10.3 | 9.7 |
| Topeka | 6.6 | 6.6 | 6.6 | 21.9 | 22.5 | 22.6 | 20.4 | 22.3 | 20.7 |
| Wichita ............................................................................................ | 10.8 | 11.2 | 11.2 | 59.5 | 59.6 | 59.5 | 24.9 | 27.6 | 24.4 |
| Kentucky ............................................................................................ | 61.3 | 62.4 | 62.4 | 314.6 | 330.1 | 331.3 | 240.2 | 260.9 | 253.7 |
| Lexington-Fayette ............................................................................ | 9.4 | 9.5 | 9.5 | 47.7 | 51.9 | 51.9 | 39.2 | 43.7 | 43.3 |
| Louisville ......................................................................................... | 27.8 | 27.5 | 27.5 | 120.9 | 128.5 | 129.4 | 59.5 | 65.2 | 63.0 |
| Owensboro ...................................................................................... | 1.5 | 1.4 | 1.5 | 8.4 | 8.4 | 8.8 | 4.6 | 5.3 | 5.2 |
| Louisiana | 78.8 | 78.5 | 78.4 | 342.6 | 349.8 | 349.8 | 305.0 | 317.3 | 310.9 |
| Alexandria ....................................................................................... | 2.5 | 2.4 | 2.4 | 11.4 | 12.0 | 11.9 | 12.0 | 12.6 | 12.2 |
| Baton Rouge ................................................................................... | 13.1 | 13.1 | 13.2 | 50.3 | 50.5 | 50.5 | 52.0 | 53.9 | 54.2 |
| Houma-Thibodaux ............................................................................ | 2.1 | 2.1 | 2.1 | 9.6 | 10.4 | 10.4 | 10.6 | 11.4 | 11.1 |
| Lafayette ........................................................................................ | 3.3 | 3.3 | 3.2 | 19.8 | 20.7 | 20.7 | 12.3 | 12.8 | 13.4 |
| Lake Charles .................................................................................... | 3.1 | 3.2 | 3.0 | 12.9 | 13.0 | 13.0 | 11.4 | 11.3 | 11.4 |
| Monroe | 4.4 | 4.3 | 4.2 | 12.5 | 13.0 | 12.9 | 11.8 | 10.9 | 11.8 |
| New Orleans .................................................................................... | 33.4 | 32.9 | 32.9 | 146.6 | 148.2 | 147.6 | 82.3 | 87.9 | 88.8 |
| Shreveport ....................................................................................... | 6.5 | 6.2 | 6.2 | 32.0 | 32.9 | 33.1 | 24.3 | 24.8 | 23.5 |

[^11]B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\underset{1990^{p}}{\text { July }}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ \text { 1990p } \end{gathered}$ |
| Maine | 550.2 | 544.3 | 533.8 | 0.2 | 0.1 | 0.2 | 36.2 | 30.6 | 30.8 |
| Lewiston-Auburn ... | 40.5 | 41.7 | 40.1 | (2) | ${ }^{(2)}$ | ${ }^{2}$ | 2.6 | 2.2 | 2.2 |
| Portand ............................................................................... | 133.7 | 134.8 | 133.7 | (2) | $\left.{ }^{2}\right)$ | ${ }^{(2)}$ | 8.9 | 8.2 | 8.2 |
| Maryland ... | 2,162.2 | 2,191.7 | 2,184.3 | 1.7 | 1.7 | 1.7 | 166.2 | 168.2 | 168.3 |
| Baltimore MSA | 1,145.1 | 1,162.7 | 1,156.3 | . 3 | . 3 | . 3 | 80.5 | 78.6 | 78.0 |
| Baltimore City .. | 482.5 | 485.5 | 488.1 | (1) | (1) | (1) | 21.2 | 20.6 | 20.2 |
| Suburban Maryland-D.C. ........................................................ | 775.1 | 785.8 | 779.2 | (1) | ${ }^{(1)}$ | (1) | 73.3 | 72.4 | 73.1 |
| Massachusetts | 3,114.9 | 3,092.6 | 3,021.8 | 1.5 | 1.5 | 1.6 | 136.2 | 112.5 | 112.3 |
| Boston | 1,735.0 | 1,730.3 | 1,688.2 | . 7 | . 8 | . 8 | 69.5 | 55.8 | 55.6 |
| Brockton ... | 73.8 | 74.3 | 72.4 | ${ }^{2}$ ) | ${ }^{(2)}$ | $\left.{ }^{2}\right)$ | 3.8 | 3.2 | 2.9 |
| Fall River ... | 55.8 | 56.5 | 54.3 | ${ }^{(2)}$ | (2) | ${ }^{(2)}$ | 2.7 | 2.6 | 2.5 |
| Fitchburg-Leominster ....... | 41.0 | 41.0 | 39.0 | ${ }^{(2)}$ | (2) | ${ }^{(2)}$ | 2.3 | 1.8 | 1.8 |
| Lawrence-Haverhill ............................................. | 164.4 | 166.0 | 163.4 | $\left.{ }^{2}\right)$ | (2) | ${ }^{(2)}$ | 7.5 | 6.7 | 6.7 |
| Lowell | 104.2 | 103.3 | 99.1 | $\left.{ }^{1}\right)$ | (1) | (1) | 5.2 | 4.7 | 4.6 |
| New Bediord | 67.6 | 67.4 | 65.5 | ${ }^{(2)}$ | (2) | $\left(^{2}\right)$ | 3.1 | 2.8 | 2.8 |
| Pittsfield .... | 43.6 | 43.8 | 43.3 | . 1 | . 1 | . 1 | 2.5 | 1.8 | 1.8 |
| Springlield ........................................ | 241.7 | 240.2 | 234.3 | . 2 | . 1 | . 1 | 10.1 | 7.8 | 8.0 |
| Worcester ............................................................................. | 201.6 | 203.2 | 199.9 | . 2 | . 3 | . 3 | 9.3 | 8.3 | 8.3 |
| Michigan .... | 3,881.6 | 3,947.1 | 3,883.3 | 11.4 | 11.0 | 10.9 | 151.8 | 143.5 | 147.5 |
| Ann Arbor ... | 165.8 | 175.9 | 169.7 | (') | (1) |  | 6.6 | 5.6 | 5.9 |
| Battle Creek | 58.8 | 61.1 | 60.6 | (1) | (1) | (1) | 2.7 | 2.7 | 2.9 |
| Benton Harbor | 67.0 | 68.0 | 67.4 | (') | (') | ${ }^{(1)}$ | 1.9 | 1.9 | 1.9 |
| Detroit | 1,927.9 | 1,949.4 | 1,925.0 | 1.3 | 1.1 | 1.1 | 71.8 | 61.5 | 63.7 |
| Flint. | 163.0 | 170.4 | 168.7 | (1) | (') | ( ${ }^{1}$ | 5.4 | 5.9 | 6.0 |
| Grand Rapids ........................... | 339.9 | 352.5 | 347.8 | (1) | (') | (') | 17.4 | 17.6 | 17.8 |
| Jackson ......................................................................... | 53.7 | 55.4 | 54.4 | (') | ( ${ }^{\text {(1) }}$ | (') | 2.1 | 2.6 | 2.7 |
| Kalamazoo .... | 108.6 | 111.4 | 110.5 | (') | (') | (') | 4.5 | 4.3 | 4.3 |
| Lansing-East Lansing ... | 208.3 | 216.1 | 208.8 | (1) | (1) | (1) | 7.0 | 6.3 | 6.3 |
| Muskegon .............. | 58.8 | 58.8 | 59.0 | (1) | (1) | (1) | 2.5 | 2.5 | 2.7 |
| Saginaw-Bay City-Midland .......... | 157.3 | 164.7 | 163.5 | (') | (') | (') | 8.6 | 8.8 | 9.2 |
| Minnesota ............................................................................................... | 2,099.8 | 2,165.6 | 2,134.9 | 8.1 | 8.5 | 8.7 | 91.6 | 88.9 | 91.7 |
| Duluth ..... | 96.9 | 96.8 | 96.0 | 5.5 | 5.6 | 5.7 | 4.2 | 3.5 | 3.7 |
| Minneapolis-St. Paul.. | 1,359.7 | 1,394.9 | 1,381.1 | ${ }^{(2)}$ | ${ }^{(2)}$ |  | 57.9 | 56.3 | 57.6 |
| Rochester ................. | 63.8 | 65.6 | 65.3 | (1) | (1) | (1) | 2.5 | 2.2 | 2.3 |
| St. Cloud ...................................................... | 75.7 | 82.0 | 79.1 | (1) | (1) | (') | 4.8 | 4.6 | 4.8 |
| Misslesippi ..... | 918.0 | 935.2 | 925.1 | 5.8 | 6.5 | 6.5 | 37.3 | 35.4 | 35.3 |
| Jackson ............................................................................ | 183.6 | 189.2 | 186.3 | . 7 | . 6 | . 6 | 8.0 | 7.6 | 7.7 |
| Missouri | 2,314.6 | 2,344.3 | 2,325.6 | 5.4 | 5.4 | 5.4 | 105.3 | 101.6 | 104.5 |
| Kansas City ... | 775.4 | 801.7 | 795.7 | (') | (1) | (') | 34.7 | 35.3 | 35.5 |
| St. Louis ....... | 1,177.9 | 1,191.2 | 1,188.0 | (1) | (1) | (1) | 66.3 | 60.2 | 62.0 |
| Springfield. | 116.0 | 119.1 | 118.1 | () | (1) | (1) | 5.1 | 4.6 | 4.7 |
| Montana ......... | 292.1 | 301.4 | 296.5 | 6.7 | 6.5 | 6.6 | 11.9 | 10.3 | 10.9 |
| Nebraska ............................................................................................ | 702.7 | 731.9 | 718.9 | 1.7 | 1.7 | 1.8 | 25.8 | 26.4 | 27.0 |
| Lincoln. | 117.6 | 122.7 | 120.1 | ${ }^{(1)}$ | (1) | ${ }^{(1)}$ | 4.1 | 4.6 | 4.7 |
| Omaha ................................................................................................. | 321.7 | 331.6 | 329.8 | (') | (1) | $\left.{ }^{1}\right)$ | 12.4 | 12.9 | 13.2 |
| Nevada | 587.9 | 624.0 | 627.7 | 14.4 | 15.5 | 15.9 | 47.3 | 51.2 | 51.8 |
| Las Vegas .......... | 342.1 | 370.9 | 374.1 | . 3 | . 3 | . 3 | 32.3 | 35.5 | 35.9 |
| Reno .................. | 142.8 | 147.2 | 146.6 | 1.6 | 1.6 | 1.6 | 7.8 | 8.2 | 8.2 |
| New Hampshire .................................................................... | 519.8 | 520.1 | 501.3 | . 4 | . 6 | . 6 | 33.8 | 26.8 | 27.0 |
| Manchester ............ | 86.5 | 84.2 | 81.5 | ${ }^{(1)}$ | (1) | (') | 6.0 | 4.6 | 4.5 |
| Nashua ......................................................................... | 92.9 | 91.1 | 86.3 | (1) | (1) | (1) | 4.0 | 2.6 | 2.6 |
| Portsmouth-Dover-Rochester ................................................. | 112.4 | 109.2 | 104.6 | (') | (1) | (') | 5.9 | 4.6 | 4.8 |
| New Jersey ....................................................................................................... | 3,741.6 | 3,779.2 | 3,753.9 | 2.6 | 2.5 | 2.5 | 175.8 | 161.9 | 161.8 |
| Atlantic City ............. | 188.6 | 190.8 | 196.6 | ${ }^{(1)}$ | (') | (') | 10.4 | 9.6 | 9.4 |
| Bergen-Passaic .................................................................. | 673.0 | 680.2 | 674.5 | (1) | (1) | (1) | 33.5 | 31.7 | 32.1 |
| Camden ... | 454.4 | 464.1 | 459.3 | (') | (1) | (') | 26.5 | 26.4 | 26.3 |
| Jersey City. | 252.1 | 253.0 | 251.2 | (1) | (') | (1) | 7.3 | 7.0 | 7.0 |
| Middlesex-Somerset-Hunterdon ...................................................... | 542.2 | 546.1 | 540.0 |  |  | . 7 | 24.3 | 23.1 | 23.3 |
| Monmouth-Ocean ................................................................ | 353.3 | 352.9 | 355.7 | (') | () | (1) | 22.0 | 18.4 | 18.5 |
| Newark .................................................................................. | 979.4 | 991.7 | 986.9 |  |  | . 8 | 40.5 | 39.0 | 39.4 |
| Trenton ............................................................................ | 197.2 | 201.2 | 196.9 | (1) | (1) | (1) | 5.7 | 5.0 | 5.1 |
| Vineland-Millville-Bridgeton ..................................................................... | 58.8 | 60.3 | 60.1 | . 4 | . 4 | . 4 | 2.5 | 2.5 | 2.5 |

See footnotes at end of table.

ESTAELISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued
(in thousands)

| State and area | Manufacturing |  |  | Transportation and public utilities |  |  | Wholesale and retail trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ |
| Maine | 103.9 | 106.0 | 102.6 | 22.8 | 22.5 | 22.4 | 146.0 | 136.6 | 137.6 |
| Lewiston-Aubum . | 9.4 | 9.8 | 8.9 | 1.4 | 1.4 | 1.4 | 10.7 | 10.6 | 10.7 |
| Portland .......................................................................................... | 16.7 | 17.2 | 17.3 | 5.6 | 5.3 | 5.5 | 41.3 | 40.6 | 40.9 |
| Maryland | 210.1 | 206.2 | 205.0 | 101.2 | 102.4 | 103.1 | 546.8 | 547.1 | 548.8 |
| Baltimore MSA | 130.7 | 128.0 | 126.7 | 55.6 | 57.6 | 57.1 | 279.8 | 282.3 | 282.3 |
| Baltimore City .................................................................................. | 44.9 | 44.7 | 44.3 | 28.4 | 28.8 | 28.8 | 95.9 | 95.8 | 95.4 |
| Suburban Maryland-D.C. .................................................................. | 38.5 | 38.3 | 38.1 | 31.2 | 32.0 | 32.0 | 200.4 | 201.0 | 202.4 |
| Massachusetts .................................................................................. | 556.6 | 534.1 | 522.4 | 130.0 | 131.2 | 127.1 | 751.0 | 738.6 | 725.4 |
| Boston | 258.6 | 248.2 | 245.4 | 75.5 | 76.6 | 76.2 | 389.6 | 386.8 | 379.3 |
| Brockton. | 9.7 | 9.6 | 9.4 | 4.8 | 4.6 | 4.5 | 24.2 | 24.0 | 24.1 |
| Fall River | 14.6 | 14.9 | 14.0 | 1.9 | 1.9 | 1.9 | 15.7 | 14.8 | 14.6 |
| Fitchburg-Leominster ........................................................................ | 11.9 | 11.9 | 11.4 | 1.4 | 1.3 | 1.2 | 10.0 | 9.7 | 9.1 |
| Lawrence-Haverhill .......................................................................... | 47.4 | 45.9 | 45.2 | 6.5 | 6.4 | 5.9 | 37.7 | 37.0 | 37.3 |
| Lowell ............................................................................................. | 34.7 | 31.7 | 31.2 | 4.4 | 4.9 | 4.4 | 22.3 | 22.2 | 21.6 |
| New Bedford | 17.4 | 17.0 | 16.0 | 2.7 | 2.8 | 2.4 | 16.9 | 16.8 | 16.7 |
| Pittsfield... | 10.8 | 10.9 | 10.7 | 1.3 | 1.4 | 1.4 | 10.2 | 10.1 | 10.1 |
| Springfield | 48.4 | 46.3 | 45.7 | 9.6 | 10.2 | 9.6 | 59.8 | 59.1 | 58.5 |
| Worcester ......................................................................................... | 44.6 | 43.7 | 43.5 | 9.0 | 9.3 | 9.1 | 49.5 | 50.4 | 50.0 |
| Michigan | 953.5 | 951.3 | 934.1 | 153.4 | 155.3 | 155.7 | 935.4 | 938.0 | 939.1 |
| Ann Abor | 35.3 | 38.7 | 35.5 | 4.8 | 5.1 | 5.0 | 29.7 | 30.7 | 30.3 |
| Battle Creek. | 16.6 | 16.5 | 16.1 | 1.7 | 1.6 | 1.6 | 11.9 | 12.1 | 12.0 |
| Benton Harbor | 21.9 | 20.9 | 20.8 | 2.5 | 2.6 | 2.7 | 15.1 | 15.5 | 15.4 |
| Detroit ............ | 451.1 | 446.1 | 439.5 | 87.3 | 89.7 | 89.2 | 471.2 | 471.9 | 472.2 |
| Flint. | 50.3 | 52.5 | 51.4 | 4.4 | 4.3 | 4.3 | 41.9 | 42.4 | 42.2 |
| Grand Rapids | 101.7 | 103.4 | 102.5 | 11.5 | 11.4 | 11.4 | 90.1 | 94.6 | 93.7 |
| Jackson | 13.1 | 12.8 | 12.5 | 4.1 | 4.0 | 3.9 | 13.1 | 13.0 | 13.0 |
| Kalamazoo | 30.1 | 30.4 | 30.1 | 3.3 | 3.3 | 3.4 | 25.6 | 26.1 | 26.1 |
| Lansing-East Lansing | 33.1 | 33.0 | 32.3 | 5.5 | 5.8 | 5.8 | 45.7 | 45.5 | 45.0 |
| Muskegon ....................................................................................... | 17.0 | 16.4 | 16.4 | 2.2 | 2.2 | 2.2 | 13.8 | 14.0 | 14.1 |
| Saginaw-Bay City-Midland ................................................................ | 44.6 | 44.7 | 44.9 | 6.3 | 6.2 | 6.1 | 38.7 | 39.9 | 40.3 |
| Minnesota | 406.1 | 401.0 | 401.7 | 105.4 | 110.0 | 108.7 | 525.2 | 534.3 | 532.1 |
| Duluth | 8.6 | 8.6 | 8.5 | 6.0 | 5.9 | 5.9 | 25.0 | 24.7 | 24.7 |
| Minneapolis-St. Paul | 266.8 | 262.5 | 262.4 | 74.4 | 77.9 | 77.5 | 334.8 | 340.7 | 339.4 |
| Rochester ....................................................................................... | 12.0 | 12.1 | 12.3 | 1.9 | 1.9 | 1.9 | 13.0 | 12.9 | 12.8 |
| St. Cloud ......................................................................................... | 15.0 | 15.4 | 15.2 | 3.8 | 3.9 | 3.9 | 24.0 | 26.4 | 26.3 |
| Mississ/ppi | 244.0 | 244.1 | 241.3 | 45.9 | 47.3 | 47.0 | 199.2 | 202.0 | 202.4 |
| Jackson ............ | 21.5 | 22.0 | 21.8 | 14.1 | 14.8 | 14.8 | 43.7 | 43.9 | 43.9 |
| Missouri . | 437.9 | 440.0 | 434.7 | 152.1 | 151.4 | 151.0 | 578.4 | 577.3 | 578.7 |
| Kansas City ......... | 110.8 | 111.6 | 111.8 | 63.9 | 65.1 | 65.0 | 203.5 | 209.6 | 209.5 |
| St. Louis ... | 223.0 | 224.8 | 221.9 | 77.3 | 78.3 | 78.5 | 291.5 | 295.9 | 295.2 |
| Springfield ......................................................................................... | 21.5 | 21.2 | 21.1 | 7.4 | 7.7 | 7.7 | 33.6 | 34.7 | 34.6 |
| Montana ........................................................................................... | 22.5 | 22.5 | 23.2 | 20.3 | 19.8 | 19.8 | 80.1 | 81.9 | 82.1 |
| Nebraska . | 95.0 | 96.9 | 95.7 | 45.8 | 47.1 | 47.0 | 184.4 | 186.9 | 186.8 |
| Lincoln | 14.1 | 14.2 | 13.8 | 6.6 | 6.8 | 6.8 | 27.2 | 27.4 | 27.4 |
| Omaha | 35.8 | 36.3 | 36.3 | 24.2 | 25.0 | 24.9 | 83.0 | 85.1 | 85.2 |
| Nevada ............................................................................................. | 25.6 | 26.3 | 26.2 | 30.9 | 32.3 | 32.3 | 121.5 | 127.9 | 129.0 |
| Las Vegas ......................................................................................... | 10.1 | 10.7 | 10.5 | 18.0 | 19.3 | 19.3 | 73.4 | 78.9 | 79.5 |
| Reno ................................................................................................. | 8.5 | 8.7 | 8.7 | 9.5 | 9.1 | 9.1 | 32.5 | 33.9 | 34.2 |
| New Hampshire ................................................................................. | 109.0 | 109.0 | 103.1 | 17.8 | 18.9 | 17.6 | 138.7 | 132.4 | 131.8 |
| Manchester ...................................................................................... | 11.4 | 11.1 | 10.8 | 4.9 | 4.9 | 4.8 | 22.6 | 21.6 | 20.9 |
| Nashua ............................................................................................ | 34.0 | 33.0 | 31.7 | 3.4 | 3.4 | 3.3 | 23.2 | 22.4 | 21.7 |
| Portsmouth-Dover-Rochester ........................................................... | 19.6 | 19.2 | 16.7 | 2.9 | 2.8 | 2.8 | 30.4 | 27.3 | 27.7 |
| New Jersey | 650.3 | 640.8 | 629.8 | 240.7 | 245.2 | 239.6 | 900.7 | 903.6 | 904.9 |
| Atlantic City ................................... | 8.5 | 8.6 | 8.2 | 6.9 | 6.9 | 6.9 | 48.4 | 44.2 | 48.5 |
| Berger-Passaic .... | 148.9 | 147.5 | 144.4 | 29.6 | 29.8 | 29.4 | 193.0 | 192.6 | 192.4 |
| Camden ........................................................................................... | 72.8 | 70.0 | 69.5 | 19.6 | 20.5 | 19.8 | 123.0 | 126.0 | 125.2 |
| Jersey City ...................................................................................... | 42.9 | 43.3 | 41.7 | 33.2 | 33.7 | 33.3 | 61.1 | 61.1 | 60.2 |
| Middlesex-Somerset-Hunterdon ...................................................... | 112.7 | 112.1 | 110.1 | 41.7 | 42.5 | 41.8 | 131.1 | 130.6 | 129.8 |
| Monmouth-Ocean ........ | 27.7 | 27.2 | 27.1 | 17.4 | 17.5 | 17.3 | 98.4 | 96.5 | 99.3 |
| Newark ........................................................................................... | 174.4 | 171.3 | 168.7 | 81.3 | 84.4 | 83.6 | 197.6 | 197.3 | 195.9 |
| Trenton ........................................................................................... | 29.1 | 28.4 | 27.6 | 6.8 | 6.7 | 6.6 | 31.5 | 31.9 | 31.9 |
| Vineland-Millville-Bridgeton ............................................................... | 16.9 | 16.9 | 16.9 | 2.2 | 2.3 | 2.3 | 11.3 | 11.4 | 11.5 |

[^12]B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued

| State and area | Finance, insurance, and real estate |  |  | Services |  |  | Government |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ |
| Manne | 26.0 | 25.6 | 25.6 | 130.6 | 126.2 | 130.0 | 84.5 | 96.7 | 84.6 |
| Lewiston-Auburn . | 2.4 | 2.3 | 2.3 | 10.3 | 11.2 | 10.8 | 3.7 | 4.2 | 3.8 |
| Portand .......................................................................................... | 11.9 | 11.4 | 11.5 | 34.9 | 36.3 | 36.3 | 14.4 | 15.8 | 14.0 |
| Maryland ......... | 133.7 | 134.3 | 134.5 | 601.5 | 612.8 | 612.7 | 401.0 | 419.0 | 410.2 |
| Baltimore MSA .-............................................................................... | 78.0 | 77.4 | 77.4 | 315.0 | 322.5 | 322.5 | 205.2 | 216.0 | 212.0 |
| Baltimore City ............................................................................... | 46.2 | 45.9 | 46.0 | 150.8 | 152.8 | 153.6 | 95.1 | 96.9 | 99.8 |
| Suburban Maryland-C.C. .................................................................. | 46.5 | 46.7 | 47.1 | 231.1 | 231.6 | 232.5 | 154.1 | 163.8 | 154.0 |
| Massachusetts .................................................................................. | 221.0 | 221.2 | 221.1 | 925.3 | 942.8 | 928.3 | 393.3 | 410.7 | 383.6 |
| Boston ............................................................................................. | 150.1 | 149.9 | 149.4 | 593.8 | 604.1 | 588.2 | 197.2 | 208.1 | 193.3 |
| Brockton | 3.6 | 3.6 | 3.6 | 16.0 | 16.4 | 16.2 | 11.7 | 12.9 | 11.7 |
| Fall River ......................................................................................... | 3.5 | 3.5 | 3.6 | 11.2 | 11.6 | 11.5 | 6.2 | 7.2 | 6.2 |
| Fitchburg-Leominster | 1.6 | 1.6 | 1.6 | 9.4 | 9.5 | 9.5 | 4.4 | 5.2 | 4.4 |
| Lawrence-Haverhill .......................................................................... | 6.6 | 6.6 | 6.5 | 38.5 | 40.8 | 41.5 | 20.2 | 22.6 | 20.3 |
| Lowell | 3.9 | 3.5 | 3.4 | 21.9 | 22.6 | 22.0 | 11.8 | 13.7 | 11.9 |
| New Bedford | 2.6 | 2.5 | 2.4 | 15.3 | 15.5 | 15.8 | 9.6 | 10.0 | 9.4 |
| Pittsfield ......... | 2.0 | 2.0 | 2.0 | 12.2 | 12.6 | 12.7 | 4.5 | 4.9 | 4.5 |
| Springfield ....................................................................................... | 15.8 | 15.1 | 14.9 | 60.1 | 61.9 | 61.4 | 37.7 | 39.7 | 36.1 |
| Worcester | 14.4 | 14.1 | 14.2 | 51.8 | 52.9 | 51.9 | 22.8 | 24.2 | 22.6 |
| Michigan ........................................................................................... | 191.4 | 193.8 | 194.3 | 909.5 | 925.6 | 922.8 | 575.1 | 628.6 | 579.0 |
| Ann Arbor .. | 4.7 | 4.8 | 4.8 | 37.5 | 39.3 | 39.8 | 47.2 | 51.8 | 48.4 |
| Battle Creek . | 3.3 | 3.5 | 3.5 | 12.1 | 13.1 | 13.4 | 10.5 | 11.6 | 11.0 |
| Benton Harbor | 2.6 | 2.8 | 2.8 | 14.8 | 15.5 | 15.5 | 8.2 | 8.8 | 8.4 |
| Detroit ........... | 112.2 | 114.5 | 114.6 | 509.4 | 523.1 | 519.9 | 223.8 | 241.4 | 224.8 |
| Flint. | 6.0 | 6.3 | 6.4 | 33.7 | 35.9 | 36.0 | 21.3 | 23.1 | 22.5 |
| Grand Rapids ................................................................................. | 15.9 | 16.1 | 16.1 | 73.1 | 75.8 | 75.3 | 30.1 | 33.6 | 31.1 |
| Jackson ........................................................................................... | 1.8 | 1.8 | 1.8 | 10.1 | 10.6 | 10.6 | 9.4 | 10.6 | 9.9 |
| Kalamazoo ...................................................................................... | 4.9 | 5.2 | 5.4 | 25.7 | 25.8 | 26.1 | 14.6 | 16.3 | 15.1 |
| Lansing-East Lansing ...................................................................... | 13.0 | 12.9 | 12.8 | 42.2 | 43.1 | 43.4 | 61.9 | 69.5 | 63.0 |
| Muskegon | 1.5 | 1.5 | 1.5 | 12.6 | 12.5 | 12.7 | 9.1 | 9.6 | 9.3 |
| Saginaw-Bay City-Midland ............................................................... | 6.4 | 6.1 | 6.2 | 35.2 | 37.7 | 37.6 | 17.5 | 21.2 | 19.3 |
| Minnesota. | 122.1 | 124.0 | 124.6 | 536.6 | 559.1 | 559.7 | 304.7 | 339.8 | 307.7 |
| Duluth | 3.3 | 3.2 | 3.2 | 24.1 | 24.1 | 24.0 | 20.2 | 21.2 | 20.3 |
| Minneapolis-St. Paul ........................................................................ | 94.0 | 95.2 | 95.8 | 360.3 | 373.7 | 374.1 | 170.8 | 188.1 | 173.8 |
| Rochester ............ | 1.6 | 1.7 | 1.7 | 27.3 | 28.4 | 28.9 | 5.5 | 6.6 | 5.4 |
| St. Cloud ....... | 2.5 | 2.4 | 2.4 | 15.9 | 16.6 | 16.7 | 9.7 | 12.7 | 9.8 |
| Miselssippi | 39.4 | 38.7 | 38.8 | 159.2 | 164.1 | 162.9 | 187.3 | 197.2 | 190.8 |
| Jackson | 14.9 | 14.6 | 14.6 | 42.5 | 43.7 | 43.5 | 38.3 | 42.0 | 39.5 |
| Missouri ....... | 136.9 | 136.8 | 136.6 | 564.8 | 571.6 | 573.3 | 333.8 | 360.2 | 341.4 |
| Kansas City | 59.4 | 59.9 | 59.8 | 191.7 | 197.1 | 197.1 | 111.5 | 123.1 | 117.0 |
| St. Louis ...... | 75.3 | 74.6 | 75.1 | 309.9 | 318.8 | 320.6 | 134.6 | 138.6 | 134.7 |
| Springfield ....................................................................................... | 5.5 | 5.7 | 5.6 | 29.8 | 30.6 | 30.3 | 13.1 | 14.6 | 14.1 |
| Montana ........................................................................................... | 13.4 | 13.5 | 13.5 | 73.1 | 74.6 | 75.6 | 64.1 | 72.3 | 64.8 |
| Nebraska | 48.9 | 48.7 | 48.4 | 166.7 | 174.5 | 172.8 | 134.4 | 149.7 | 139.4 |
| Lincoln ...................................................................................... | 8.6 | 8.4 | 8.5 | 27.0 | 29.0 | 28.4 | 30.0 | 32.3 | 30.5 |
| Omaha ............................................................................................. | 29.5 | 29.4 | 29.4 | 91.6 | 95.6 | 95.2 | 45.2 | 47.3 | 45.6 |
| Nevada .............................................................................................. | 26.0 | 27.4 | 27.6 | 256.5 | 269.5 | 274.5 | 65.7 | 73.9 | 70.4 |
| Las Vegas ....................................................................................... | 16.7 | 17.2 | 17.3 | 158.4 | 171.8 | 176.0 | 32.9 | 37.2 | 35.3 |
| Reno | 6.7 | 7.1 | 7.1 | 60.1 | 60.6 | 60.8 | 16.1 | 18.0 | 16.9 |
| New Hampshire | 33.4 | 32.6 | 32.7 | 127.2 | 128.6 | 127.8 | 59.5 | 71.2 | 60.7 |
| Manchester | 8.9 | 8.9 | 9.0 | 24.7 | 24.0 | 23.5 | 8.0 | 9.1 | 8.0 |
| Nashua | 3.5 | 3.3 | 3.3 | 18.4 | 18.2 | 17.5 | 6.4 | 8.2 | 6.2 |
| Portsmouth-Dover-Rochester ......................................................... | 7.3 | 7.1 | 7.2 | 25.3 | 24.2 | 24.7 | 21.0 | 24.0 | 20.7 |
| New Jersey ........................................................................................ | 247.3 | 244.9 | 245.7 | 976.2 | 999.7 | 1,006.5 | 548.2 | 580.6 | 563.1 |
| Atiantic City ..................................................................................... | 7.3 | 7.2 | 7.2 | 80.6 | 86.9 | 89.2 | 26.5 | 27.4 | 27.2 |
| Bergen-Passaic | 39.9 | 39.7 | 39.7 | 160.6 | 167.2 | 167.0 | 67.5 | 71.7 | 69.5 |
| Camden ......................................................................................... | 25.7 | 25.1 | 25.1 | 116.3 | 118.3 | 120.6 | 70.5 | 77.8 | 72.8 |
| Jersey City ..................................................................................... | 16.7 | 16.2 | 16.4 | 50.1 | 51.0 | 51.4 | 40.8 | 40.7 | 41.2 |
| Middlesex-Somerset-Hunterdon ...................................................... | 39.9 | 38.9 | 39.0 | 120.4 | 120.7 | 122.5 | 71.4 | 77.5 | 72.8 |
| Monmouth-Ocean ............................................................................ | 19.7 | 19.7 | 19.7 | 105.0 | 106.1 | 108.9 | 63.1 | 67.5 | 64.9 |
| Newark ............................................................................................ | 80.6 | 80.5 | 80.5 | 265.2 | 274.2 | 275.8 | 139.0 | 144.2 | 142.2 |
| Trenton ...................................................................................... | 10.8 | 10.8 | 11.0 | 58.3 | 60.9 | 58.7 | 55.0 | 57.5 | 56.0 |
| Vineland-Millville-Bridgeton ............................................................... | 3.8 | 3.9 | 3.9 | 10.2 | 10.5 | 10.6 | 11.5 | 12.4 | 12.0 |

See footnotes at end of table.

## ESTABLISHMENT DATA <br> STATE AND AREA EMPLOYMENT <br> NOT SEASONALLY ADJUSTED

## B-8. Employees on nonfarm payrolis in States and selected areas by major industry-Continued

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1990^{p} \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\mathrm{P}} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ |
| New Mexico | 555.9 | 571.1 | 566.7 | 14.5 | 14.7 | 14.6 | 32.2 | 29.3 | 29.5 |
| Albuquerque ... | 239.8 | 243.6 | 242.0 | $\left.{ }^{2}\right)^{2}$ | ${ }^{(2)}$ |  | 14.0 | 12.7 | 12.7 |
| Las Cruces ....... | 40.3 | 43.3 | 41.2 | (2) | (2) | $(2)$ | 2.5 | 2.5 | 2.5 |
| Santa Fe ..................................................................... | 58.0 | 60.4 | 60.4 | (2) | (2) | (2) | 2.9 | 2.8 | 2.8 |
| New York ............................................................................................... | 8,281.7 | 8,401.7 | 8,292.9 | 6.1 | 6.1 | 6.1 | 357.9 | 328.2 | 328.1 |
| Albany-Schenectady-Troy ................................................................... | 429.8 | 440.8 | 434.4 | . 6 | . 8 | . 8 | 23.2 | 22.3 | 22.6 |
| Binghamton ............................................................................ | 119.4 | 121.4 | 118.8 | (1) | (1) | (1) | 6.1 | 5.5 | 5.8 |
| Buffalo ............................................................................ | 459.6 | 471.2 | 464.5 | (1) | (') | (1) | 20.2 | 18.6 | 19.3 |
| Elmira | 41.9 | 42.6 | 42.0 | (') | (') | (') | 1.9 | 1.6 | 1.7 |
| Glens Falls .. | 52.6 | 51.4 | 52.7 | ( ${ }^{\text {( }}$ | (') | (') | 2.9 | 3.0 | 3.1 |
| Nassau-Sufiolk | 1,147.1 | 1,164.4 | 1,139.1 | (1) | (') | (') | 60.6 | 55.3 | 55.3 |
| New York PMSA ....................................................................................... | 4,136.2 | 4,185.4 | 4,136.7 | (1) | (') | (') | 156.4 | 146.5 | 145.3 |
| New York City .... | 3,598.9 | 3,639.4 | 3,594.3 | . 4 | . 2 | . 2 | 123.1 | 114.1 | 112.6 |
| Niagara Falls ...................................................................... | 85.5 | 87.9 | 86.8 | (1) | (') |  | 4.4 | 4.4 | 4.6 |
| Orange County .................................................................... | 107.7 | 110.7 | 107.8 | (1) | (1) | (1) | 5.4 | 5.1 | 5.2 |
| Poughkeepsie ............................................................... | 120.4 | 122.7 | 120.3 | (1) | (') | (1) | 7.0 | 6.6 | 6.6 |
| Rochester ............ | 488.4 | 497.1 | 488.7 | . 8 | . 7 | . 7 | 21.0 | 20.7 | 20.9 |
| Rockland County .................................................................... | 104.0 | 104.9 | 104.5 | (1) | (') | (1) | 5.4 | 5.4 | 5.3 |
| Syracuse ................................................................................ | 311.1 | 319.1 | 314.8 | (1) | (') | (1) | 18.2 | 17.3 | 17.7 |
| Utica-Rome ................................................................... | 129.1 | 131.1 | 129.7 | (1) | (') | (1) | 5.2 | 4.2 | 4.5 |
| Westchester County ................................................................... | 413.8 | 421.5 | 418.6 | (') | () | (') | 25.7 | 24.9 | 25.2 |
| North Carolina ....................................................................... | 3,037.2 | 3,128.8 | 3,066.1 | 4.9 | 5.0 | 5.0 | 168.8 | 165.3 | 166.2 |
| Asheville ........................................................................... | 84.5 | 90.3 | 89.1 | (1) | (') | (') | 4.7 | 4.5 | 4.5 |
| Charlotte-Gastonia-Rock Hill | 611.0 | 636.0 | 625.8 | ${ }^{(1)}$ | (') | (1) | 37.1 | 38.0 | 38.5 |
| Greensboro-Winston-Salem-High Point .............................................. | 476.2 | 486.8 | 473.4 | (1) | (') | (') | 25.2 | 25.0 | 24.9 |
| Raleigh-Durham ......................................................................... | 417.6 | 427.9 | 425.3 | (1) | (') | (') | 22.5 | 22.2 | 22.2 |
| North Dakota .................................................................................... | 261.5 | 269.3 | 265.7 | 4.3 | 4.3 | 4.5 | 11.8 | 11.6 | 11.8 |
| Bismarck. | 39.0 | 40.7 | 40.2 | (1) | ${ }^{(1)}$ |  | 1.9 | 2.2 | 2.3 |
| Fargo-Moorhead ........................................................................ | 73.4 | 77.0 | 76.2 | (1) | (') | (1) | 4.5 | 4.6 | 4.8 |
| Grand Forks ................................................................................ | 30.3 | 31.4 | 30.8 | (') | (') | (') | 1.7 | 1.5 | 1.6 |
| Ohio | 4,815.3 | 4,977.7 | 4,932.6 | 15.4 | 18.4 | 18.5 | 209.6 | 209.5 | 216.3 |
| Akron | 281.6 | 291.1 | 289.8 | . 6 | . 6 | . 6 | 10.9 | 11.1 | 11.2 |
| Canton | 165.2 | 169.1 | 168.1 | . 8 | . 8 | . 8 | 7.9 | 8.0 | 8.2 |
| Cincinnati | 727.7 | 758.6 | 753.8 | . 4 | . 5 | . 5 | 36.3 | 37.1 | 37.6 |
| Cleveland | 943.5 | 969.3 | 966.3 | . 8 | . 9 | . 9 | 35.7 | 36.3 | 37.3 |
| Columbus .................. | 699.0 | 734.0 | 724.6 | . 8 | . 9 | . 9 | 31.4 | 31.8 | 32.5 |
| Dayton-Springfield ....................................................... | 444.9 | 461.5 | 456.5 | . 5 | . 5 | . 5 | 18.9 | 18.9 | 19.2 |
| Toledo ........ | 289.8 | 299.4 | 294.7 | . 3 | . 2 | . 3 | 12.6 | 13.1 | 13.4 |
| Youngstown-Warren ......... | 193.6 | 205.0 | 196.4 | . 4 | . 5 | . 5 | 8.7 | 8.5 | 8.7 |
| Oklahoma ....................................................................................................... | 1,150.9 | 1,172.3 | 1,159.7 | 44.0 | 45.5 | 46.0 | 36.6 | 36.9 | 37.2 |
| Enid ... | 21.4 | 21.8 | 21.7 | . 9 | . 9 | . 9 | . 6 | . 6 | . 7 |
| Lawton ............................................................................................. | 34.3 | 34.9 | 34.5 | . 3 | . 2 | . 3 | 1.1 | 1.0 | 1.0 |
| Oklahoma City ......................................................................... | 417.8 | 431.0 | 426.5 | 10.8 | 10.5 | 10.5 | 12.1 | 12.9 | 13.4 |
| Tulsa .............................................................................. | 305.4 | 318.7 | 317.7 | 12.7 | 12.4 | 12.5 | 10.7 | 11.6 | 11.9 |
| Oregon .................................................................................................... | 1,209.1 | 1,261.5 | 1,245.6 | 1.6 | 1.4 | 1.5 | 48.2 | 50.3 | 52.0 |
| Eugene-Springtield ....................................................... | 113.0 | 121.3 | 118.0 | 2 | . 2 | . 2 | 4.2 | 4.3 | 4.6 |
| Portand .......................................................... | 614.8 | 641.6 | 636.2 | . 4 | 4 | . 4 | 26.9 | 27.3 | 27.8 |
| Salem ................................................................................. | 105.3 | 108.3 | 109.2 | . 1 | . 1 | . 1 | 4.6 | 4.5 | 4.9 |
| Pennsylvania ................................................................................. | 5,114.7 | 5,160.9 | 5,131.5 | 21.2 | 27.7 | 27.3 | 253.5 | 241.4 | 251.8 |
| Allentown-Bethlehem .... | 278.3 | 284.7 | 279.6 | . 7 | . 6 | . 6 | 14.4 | 13.6 | 13.7 |
| Altoona. | 52.7 | 53.7 | 53.0 | (') | (') | (') | 2.8 | 2.8 | 2.8 |
| Beaver County ................ | 49.2 | 50.3 | 49.6 | (') | (1) | (1) | 2.6 | 2.5 | 2.6 |
| Erie ........................................................................................ | 118.1 | 120.8 | 120.7 | (') | (') | (') | 4.4 | 4.4 | 4.6 |
| Harnisburg-Lebanon-Carlisle ........................................................ | 314.1 | 322.4 | 322.5 | . 4 | . 4 | . 4 | 15.2 | 15.7 | 16.1 |
| Johnstown ............................................................................. | 79.6 | 81.3 | 81.1 | 1.6 | 2.6 | 2.6 | 3.3 | 3.2 | 3.3 |
| Lancaster ................................................................................. | 169.3 | 190.7 | 189.8 | 4 | . 5 | . 5 | 12.7 | 12.6 | 13. |
| Philadelphia PMSA ...................................................................................... | 2,194.3 | 2,214.0 | 2,193.8 | 1.1 | 1.1 | 1.1 | 108.2 | 105.5 | 106.5 |
| Philadelphia City .......................................................................... | 763.6 | 764.5 | 762.4 | ( ${ }^{\text {( }}$ | (') | (') | 18.4 | 18.0 | 17.9 |
| Pittsburgh ................................................................................. | 899.5 | 916.3 | 912.1 | 3.5 | 4.5 | 4.5 | 45.1 | 42.0 | 43.5 |

See footnotes at end of table.

B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued
(In thousands)

| State and area | Manufacturing |  |  | Transportation and public utilities |  |  | Wholesale and retail trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ |
| New Mexico | 41.6 | 43.3 | 42.9 | 28.0 | 27.8 | 27.9 | 135.5 | 136.3 | 136.2 |
| Albuquerque | 21.2 | 21.2 | 21.2 | 12.3 | 12.3 | 12.1 | 60.7 | 61.4 | 61.2 |
| Las Cruces. | 3.5 | 3.6 | 3.4 | 1.3 | 1.3 | 1.3 | 8.8 | 9.3 | 9.3 |
| Santa Fe ......................................................................................... | 1.7 | 1.8 | 1.8 | . 9 | . 9 | . 9 | 11.2 | 11.5 | 11.5 |
| New York .......................................................................................... | 1,184.5 | 1,187.8 | 1,147.5 | 417.2 | 428.8 | 420.0 | 1,743.3 | 1,742.3 | 1,730.9 |
| Albany-Schenectady-Troy | 47.1 | 47.5 | 47.0 | 17.4 | 17.8 | 17.5 | 92.6 | 93.9 | 93.5 |
| Binghamton ...................... | 35.0 | 34.1 | 34.0 | 4.4 | 4.6 | 4.6 | 25.5 | 25.8 | 25.7 |
| Buffalo | 78.6 | 76.7 | 75.8 | 22.2 | 22.8 | 22.0 | 116.9 | 119.9 | 118.9 |
| Elmira | 9.2 | 8.6 | 8.6 | 1.5 | 1.4 | 1.4 | 10.8 | 11.1 | 11.0 |
| Glens Falls | 10.8 | 10.1 | 10.1 | 1.9 | 1.9 | 2.0 | 13.3 | 13.0 | 13.5 |
| Nassau-Suffolk | 161.3 | 155.5 | 151.9 | 48.4 | 51.9 | 49.7 | 305.5 | 304.8 | 302.1 |
| New York PMSA ............................................................................... | 431.9 | 426.8 | 417.9 | 244.6 | 247.9 | 243.1 | 750.0 | 752.3 | 745.2 |
| New York City | 355.8 | 351.0 | 342.2 | 218.8 | 222.1 | 218.0 | 627.6 | 629.1 | 622.8 |
| Niagara Falls . | 23.8 | 23.8 | 23.5 | 4.0 | 4.4 | 4.1 | 20.6 | 21.5 | 21.3 |
| Orange County | 14.5 | 13.4 | 13.1 | 6.5 | 7.0 | 6.9 | 30.1 | 30.3 | 30.1 |
| Poughkeepsie .................................................................................... | 30.5 | 29.6 | 29.6 | 3.7 | 3.8 | 3.8 | 22.5 | 22.6 | 22.4 |
| Rochester ........................................................................................ | 139.9 | 133.6 | 133.7 | 15.2 | 15.7 | 15.5 | 106.1 | 109.4 | 108.6 |
| Rockland County .............................................................................. | 15.1 | 14.4 | 14.4 | 5.2 | 5.2 | 4.9 | 24.1 | 23.9 | 23.8 |
| Syracuse .......................................................................................... | 53.3 | 53.3 | 52.3 | 19.1 | 19.4 | 19.3 | 75.8 | 77.7 | 77.2 |
| Utica-Rome | 24.5 | 24.0 | 23.4 | 4.5 | 4.5 | 4.4 | 28.7 | 29.2 | 29.1 |
| Westchester County .......................................................................... | 58.9 | 59.4 | 59.4 | 20.0 | 19.8 | 19.5 | 93.7 | 94.8 | 94.1 |
| North Carolina | 865.2 | 853.2 | 844.3 | 152.4 | 155.4 | 155.8 | 714.9 | 732.6 | 733.9 |
| Asheville . | 19.8 | 20.0 | 19.4 | 4.2 | 4.3 | 4.3 | 20.7 | 22.2 | 22.3 |
| Charlotte-Gastonia-Rock Hill | 154.0 | 154.0 | 151.7 | 50.1 | 51.0 | 51.0 | 153.4 | 158.0 | 158.0 |
| Greensboro-Winston-Salem-High Point | 150.0 | 145.4 | 144.2 | 26.2 | 26.0 | 25.8 | 111.4 | 111.6 | 111.4 |
| Raleigh-Durham .............................................................................. | 63.0 | 63.5 | 63.4 | 20.3 | 21.3 | 21.2 | 90.3 | 91.4 | 91.3 |
| North Dakota | 16.5 | 17.3 | 17.0 | 17.0 | 17.2 | 17.2 | 70.5 | 71.2 | 70.8 |
| Bismarck | 2.3 | 2.4 | 2.3 | 2.8 | 3.0 | 3.1 | 10.5 | 10.5 | 10.5 |
| Fargo-Moorhead .............................................................................. | 5.5 | 5.8 | 5.8 | 4.7 | 4.8 | 4.8 | 21.5 | 21.7 | 21.7 |
| Grand Forks .................................................................................... | 1.8 | 1.6 | 1.2 | 1.6 | 1.7 | 1.7 | 8.8 | 9.4 | 9.4 |
| Ohio | 1,118.2 | 1,129.7 | 1,118.8 | 217.5 | 220.7 | 221.4 | 1,176.2 | 1,219.9 | 1,218.4 |
| Akron | 68.5 | 68.0 | 67.7 | 13.1 | 13.8 | 13.6 | 70.5 | 73.4 | 73.0 |
| Canton | 45.9 | 45.4 | 45.5 | 5.7 | 5.7 | 5.7 | 41.3 | 42.7 | 42.5 |
| Cincinnati | 146.4 | 148.8 | 148.7 | 30.5 | 41.3 | 41.2 | 190.7 | 201.6 | 201.6 |
| Cleveland ......................................................................................... | 206.0 | 208.1 | 207.3 | 42.5 | 43.4 | 43.4 | 227.2 | 235.6 | 235.5 |
| Columbus | 105.1 | 105.7 | 104.3 | 30.9 | 31.6 | 31.8 | 180.2 | 189.8 | 189.1 |
| Dayton-Springlield | 104.5 | 105.9 | 105.5 | 17.5 | 18.5 | 18.6 | 100.9 | 104.7 | 103.7 |
| Toledo ......................................................................................... | 61.2 | 60.3 | 59.9 | 14.4 | 14.7 | 14.7 | 74.4 | 77.2 | 76.8 |
| Youngstown-Warren ......................................................................... | 45.7 | 50.1 | 43.7 | 7.8 | 8.0 | 8.0 | 53.4 | 55.8 | 55.9 |
| Oklahoma | 163.0 | 165.1 | 165.0 | 65.8 | 66.5 | 66.7 | 278.0 | 283.3 | 282.0 |
| Enid | 1.6 | 1.5 | 1.5 | 2.2 | 2.1 | 2.1 | 6.4 | 6.4 | 6.3 |
| Lawton | 3.4 | 3.5 | 3.5 | 1.9 | 1.7 | 1.7 | 8.6 | 8.6 | 8.6 |
| Oklahoma City | 48.9 | 47.9 | 47.4 | 21.0 | 21.1 | 21.2 | 103.6 | 104.2 | 104.8 |
| Tulsa ............................................................................................... | 52.4 | 54.5 | 54.6 | 24.4 | 25.2 | 25.3 | 73.0 | 75.8 | 75.9 |
| Oregon ................................................................................................ | 225.4 | 221.4 | 226.4 | 62.9 | 64.6 | 63.8 | 313.3 | 323.0 | 326.4 |
| Eugene-Springtield | 21.3 | 20.7 | 20.8 | 4.5 | 4.6 | 4.5 | 29.0 | 30.9 | 30.8 |
| Portland ........................................................................................... | 103.5 | 104.5 | 105.1 | 37.5 | 38.0 | 37.8 | 165.5 | 171.6 | 173.0 |
| Salem .............................................................................................. | 17.4 | 15.9 | 18.9 | 2.8 | 2.8 | 2.7 | 23.7 | 24.1 | 23.9 |
| Pennsylvania | 1,051.3 | 1,034.9 | 1,029.2 | 251.3 | 255.7 | 249.5 | 1,175.6 | 1,177.6 | 1,175.0 |
| Allentown-Bethlehem ................................................................. | 75.1 | 74.8 | 73.7 | 14.2 | 14.1 | 13.9 | 61.6 | 62.7 | 62.1 |
| Altoona .......... | 10.4 | 10.1 | 10.1 | 4.7 | 4.5 | 4.5 | 13.9 | 14.3 | 14.2 |
| Beaver County ................................................................................... | 9.2 | 9.2 | 9.1 | 5.1 | 5.1 | 5.1 | 11.6 | 11.8 | 11.7 |
| Erie ............ | 36.2 | 37.0 | 37.0 | 4.4 | 4.6 | 4.6 | 25.6 | 26.0 | 25.8 |
| Harrisburg-Lebanon-Carlisle .......................................................... | 52.5 | 51.3 | 51.4 | 19.2 | 19.5 | 19.0 | 71.5 | 72.8 | 72.8 |
| Johnstown ....................................................................................... | 14.9 | 14.8 | 14.8 | 4.8 | 5.0 | 4.8 | 17.3 | 17.5 | 17.6 |
| Lancaster ........................................................................................ | 59.6 | 57.6 | 57.3 | 7.5 | 7.4 | 7.3 | 47.5 | 48.0 | 48.3 |
| Philadelphia PMSA ............................................................................ | 363.9 | 356.2 | 353.8 | 98.9 | 100.5 | 98.8 | 507.8 | 509.6 | 504.4 |
| Philadelphia City ............................................................................... | 85.9 | 82.9 | 82.2 | 41.6 | 41.7 | 41.2 | 146.6 | 147.0 | 146.1 |
| Pittsburgh ........................................................................................ | 124.9 | 123.6 | 123.9 | 48.1 | 50.4 | 49.5 | 226.2 | 229.1 | 228.5 |

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued
(In thousands)

| State and area | Finance, insurance, and real estate |  |  | Services |  |  | Government |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Juty } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ |
| New Mexico | 26.7 | 26.8 | 26.7 | 142.0 | 145.8 | 146.2 | 135.4 | 147.1 | 142.7 |
| Albuquerque | 14.4 | 14.5 | 14.3 | 70.7 | 72.8 | 72.7 | 46.4 | 48.6 | 47.7 |
| Las Cruces | 1.7 | 1.7 | 1.7 | 7.6 | 7.7 | 7.7 | 14.8 | 17.1 | 15.2 |
| Santa Fe | 2.1 | 2.1 | 2.1 | 16.2 | 16.4 | 16.7 | 22.9 | 24.8 | 24.5 |
| New York | 804.0 | 795.5 | 798.2 | 2,365.0 | 2,429.2 | 2,425.1 | 1,403.7 | 1,503.9 | 1,437.1 |
| Albany-Schenectady-Troy | 25.2 | 25.4 | 25.5 | 114.3 | 115.9 | 116.6 | 109.4 | 117.2 | 111.0 |
| Binghamton ...................... | 4.2 | 4.2 | 4.3 | 25.2 | 25.4 | 25.1 | 19.0 | 21.7 | 19.5 |
| Buffalo ....... | 28.7 | 28.8 | 28.8 | 122.1 | 128.1 | 126.5 | 73.1 | 76.4 | 73.3 |
| Elmira .............................................................................................. | 1.5 | 1.5 | 1.5 | 10.6 | 11.0 | 11.1 | 8.6 | 7.5 | 6.8 |
| Glens Falls ........................................................................................ | 1.8 | 1.7 | 1.7 | 13.3 | 12.1 | 13.4 | 8.8 | 9.7 | 9.1 |
| Nassau-Suffolk ................................................................................ | 84.4 | 85.0 | 85.8 | 313.3 | 318.4 | 318.8 | 173.5 | 193.5 | 175.7 |
| New York PMSA .............................................................................. | 571.8 | 562.2 | 562.8 | 1,301.1 | 1,342.8 | 1,330.6 | 680.5 | 706.9 | 691.6 |
| New York City | 534.5 | 525.4 | 525.9 | 1,140.3 | 1,177.4 | 1,163.2 | 598.4 | 619.9 | 609.3 |
| Niagara Falls . | 2.0 | 2.1 | 2.1 | 18.0 | 18.4 | 18.2 | 12.9 | 13.3 | 13.0 |
| Orange County ................................................................................. | 4.9 | 4.9 | 5.0 | 24.0 | 24.5 | 24.5 | 22.2 | 25.5 | 23.1 |
| Poughkeepsie .... | 5.0 | 4.9 | 5.0 | 28.5 | 29.2 | 29.1 | 23.2 | 26.0 | 23.8 |
| Rochester ........ | 23.7 | 23.7 | 23.6 | 121.3 | 124.5 | 124.1 | 60.4 | 68.9 | 61.5 |
| Rockland County | 5.6 | 5.6 | 5.6 | 28.1 | 27.9 | 29.3 | 20.6 | 22.5 | 21.2 |
| Syracuse ............. | 20.4 | 20.3 | 20.4 | 74.2 | 76.5 | 76.9 | 50.2 | 54.6 | 51.0 |
| Utica-Rome | 7.5 | 7.8 | 7.8 | 28.4 | 28.9 | 29.2 | 30.3 | 32.5 | 31.3 |
| Westchester County | 30.9 | 30.4 | 30.5 | 127.0 | 132.0 | 132.5 | 57.6 | 60.2 | 57.4 |
| North Carolina .................................................................................... | 134.4 | 134.5 | 134.4 | 568.3 | 588.1 | 591.2 | 428.3 | 494.7 | 435.3 |
| Asheville . | 2.8 | 2.9 | 2.9 | 20.9 | 22.7 | 23.0 | 11.4 | 13.7 | 12.7 |
| Charlotte-Gastonia-Rock Hill . | 38.2 | 38.7 | 38.7 | 115.4 | 121.9 | 122.8 | 62.8 | 74.4 | 65.1 |
| Greensboro-Winston-Salem-High Point | 23.7 | 23.8 | 23.4 | 96.8 | 98.6 | 99.1 | 42.9 | 56.4 | 44.6 |
| Raleigh-Durham .............................................................................. | 23.7 | 24.0 | 24.2 | 107.4 | 110.4 | 109.9 | 90.4 | 95.1 | 93.1 |
| North Dakota | 12.5 | 12.6 | 12.7 | 66.4 | 69.3 | 69.4 | 62.5 | 65.8 | 62.3 |
| Bismarck | 1.6 | 1.5 | 1.5 | 11.4 | 12.0 | 11.9 | 8.5 | 9.1 | 8.6 |
| Fargo-Moorhead | 4.5 | 4.6 | 4.6 | 20.4 | 21.4 | 21.5 | 12.3 | 14.1 | 13.0 |
| Grand Forks .......... | 1.1 | 1.2 | 1.2 | 7.0 | 7.3 | 7.1 | 8.5 | 8.7 | 8.6 |
| Ohio | 255.9 | 259.3 | 260.5 | 1,158.8 | 1,196.9 | 1,199.6 | 663.8 | 723.4 | 679.1 |
| Akron | 10.5 | 10.7 | 10.8 | 69.1 | 72.9 | 74.0 | 38.3 | 40.7 | 38.9 |
| Canton.. | 6.9 | 6.9 | 6.9 | 38.6 | 40.2 | 39.9 | 18.2 | 19.5 | 18.7 |
| Cincinnati | 43.4 | 43.4 | 43.7 | 186.8 | 193.5 | 193.6 | 84.2 | 92.6 | 86.9 |
| Cleveland. | 57.6 | 58.3 | 58.6 | 254.8 | 263.3 | 262.9 | 118.8 | 123.4 | 120.4 |
| Columbus .......... | 60.5 | 61.4 | 61.9 | 172.2 | 180.9 | 181.6 | 117.9 | 131.9 | 122.4 |
| Dayton-Springfield | 18.1 | 17.7 | 17.8 | 113.4 | 117.5 | 117.5 | 71.2 | 77.9 | 73.7 |
| Toledo | 12.3 | 12.1 | 12.1 | 77.0 | 79.4 | 79.5 | 37.7 | 42.3 | 37.9 |
| Youngstown-Warren ... | 8.8 | 8.9 | 8.8 | 47.3 | 48.8 | 48.8 | 21.5 | 24.3 | 22.0 |
| Oklahoma .......................................................................................... | 59.0 | 55.8 | 55.7 | 264.2 | 265.4 | 265.0 | 240.3 | 253.8 | 242.1 |
| Enid | . 9 | . 9 | . 9 | 5.2 | 5.4 | 5.4 | 3.6 | 4.0 | 3.9 |
| Lawton ... | 1.7 | 1.8 | 1.8 | 6.3 | 6.2 | 6.6 | 11.0 | 11.9 | 11.0 |
| Oklahoma City ....................... | 24.9 | 24.3 | 24.4 | 103.7 | 108.6 | 107.8 | 92.8 | 101.5 | 97.0 |
| Tulsa ..................................... | 16.8 | 17.9 | 17.9 | 79.5 | 83.0 | 83.3 | 35.9 | 38.3 | 36.3 |
| Oregon ............................................................................................... | 76.8 | 77.3 | 78.0 | 282.8 | 291.0 | 292.1 | 198.1 | 232.5 | 205.4 |
| Eugene-Springfield | 5.6 | 5.9 | 5.9 | 27.6 | 29.0 | 29.0 | 20.6 | 25.7 | 22.2 |
| Portland | 50.0 | 50.6 | 50.9 | 155.3 | 161.2 | 162.1 | 75.7 | 88.0 | 79.1 |
| Salem .............................................................................................. | 5.4 | 5.6 | 5.6 | 21.8 | 22.8 | 22.7 | 29.5 | 32.5 | 30.4 |
| Pennsylvania | 301.1 | 299.9 | 300.3 | 1,390.5 | 1,422.2 | 1,423.1 | 670.2 | 701.5 | 675.3 |
| Allentown-Bethlehem ................................................................ | 14.5 | 14.5 | 14.5 | 69.9 | 71.5 | 70.9 | 27.9 | 32.9 | 30.2 |
| Altoona ............................................................................................ | 1.9 | 2.0 | 2.0 | 11.8 | 12.1 | 12.0 | 7.2 | 7.9 | 7.4 |
| Beaver County .................................................................................. | 1.7 | 1.6 | 1.7 | 11.5 | 11.8 | 11.7 | 7.5 | 8.3 | 7.7 |
| Erie ................................................................................................... | 5.6 | 5.7 | 5.7 | 28.8 | 29.8 | 29.9 | 13.1 | 13.3 | 13.1 |
| Harrisburg-Lebanon-Carlisle ............................................................. | 20.0 | 21.7 | 21.8 | 70.5 | 73.7 | 74.8 | 64.8 | 67.3 | 66.2 |
| Johnstown | 4.5 | 4.4 | 4.4 | 20.6 | 21.0 | 20.9 | 12.6 | 12.8 | 12.7 |
| Lancaster ......................................................................................... | 7.4 | 7.6 | 7.6 | 40.2 | 41.2 | 41.3 | 14.0 | 15.8 | 14.4 |
| Philadelphia PMSA .......................................................................... | 161.6 | 161.2 | 162.0 | 655.4 | 668.4 | 663.8 | 297.4 | 311.5 | 303.4 |
| Philadelphia City .............................................................................. | 70.6 | 69.7 | 70.0 | 255.9 | 259.6 | 258.7 | 144.6 | 145.6 | 146.3 |
| Pittsburgh ......................................................................................... | 54.2 | 55.3 | 55.4 | 293.3 | 303.3 | 302.9 | 104.2 | 110.1 | 103.9 |

See footnotes at end of table.

B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1890 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | July <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ |
| Pennsyivania-Continued |  |  |  |  |  |  |  |  |  |
| Reading .............................................................................. | 153.4 | 157.1 | 153.4 | $\left.{ }^{1}\right)$ | ${ }^{(1)}$ | (') | 7.7 | 8.0 | 8.1 |
| Scranton-Wikes-Barre | 306.9 | 309.6 | 308.3 | 0.6 | 0.6 | 0.6 | 16.3 | 15.8 | 16.2 |
| Sharon. | 42.4 | 44.0 | 43.8 | (') | (') |  | 1.5 | 1.6 | 1.7 |
| State College ......... | 57.3 | 57.8 | 58.1 |  |  | . 3 | 3.7 | 3.8 | 3.9 |
| Williamsport ...................................................................... | 51.7 | 52.4 | 52.1 |  |  |  | 2.7 | 2.8 | 2.9 |
| York ........................................................................................... | 179.3 | 181.3 | 179.5 | . 5 | . 5 | . 5 | 11.7 | 11.8 | 12.1 |
| Rhode island | 457.9 | 461.2 | 448.4 | . 1 | . 1 | . 1 | 21.7 | 19.4 | 19.4 |
| Pawtucket-Woonsocket-Attleboro .. | 130.3 | 132.7 | 128.2 | . 2 | . 2 | . 2 | 5.7 | 4.9 | 4.9 |
| Providence .................................. | 325.5 | 331.4 | 323.5 | . 1 | . 1 | . 1 | 16.3 | 15.3 | 15.5 |
| South Carolina ....................................................................................... | 1,499.5 | 1,565.3 | 1,546.2 | 1.9 | 1.8 | 1.8 | 94.5 | 103.2 | 102.4 |
| Charleston .... | 195.6 | 210.1 | 208.8 |  |  |  | 13.6 | 15.4 | 15.4 |
| Columbia ................................................................................... | 236.9 | 242.2 | 237.5 | (1) | (1) | (1) | 14.1 | 16.2 | 15.9 |
| Greenville-Spartanburg ................................................................................ | 328.9 | 340.4 | 334.5 | (1) | (1) | $\left.{ }^{1}\right)$ | 24.4 | 24.6 | 24.5 |
| South Dakota . | 276.6 | 287.5 | 280.7 | 2.8 | 2.9 | 3.0 | 11.9 | 11.9 | 12.2 |
| Rapid City ...... | 38.3 | 39.3 | 39.0 | . 3 | . 4 | . 3 | 2.1 | 2.1 | 2.1 |
| Sioux Falls ................................................................................... | 70.9 | 74.7 | 74.0 | (1) |  |  | 3.8 | 3.7 | 3.9 |
| Tennessee ........................................................................................................ | 2,158.4 | 2.184 .9 | 2,189.1 | 6.3 | 6.4 | 6.5 | 101.9 | 101.4 | 102.7 |
| Chattanooga | 195.2 | 198.7 | 197.5 | . 8 | . 8 | . 8 | 7.9 | 8.6 | 8.7 |
| Johnson City-Kingsport-Bristol ..................................................... | 165.0 | 172.1 | 171.8 | (') | (') | (') | 7.9 | 8.0 | 8.1 |
| Knoxville .................................................................................. | 267.8 | 265.5 | 264.3 | 1.8 | 1.9 | 1.9 | 15.4 | 15.1 | 15.2 |
| Memphis .... | 458.7 | 466.5 | 465.8 |  | (1) |  | 19.4 | 20.0 | 20.1 |
| Nashville .................................................................................... | 489.1 | 495.9 | 492.4 | (') | (1) | (1) | 25.7 | 25.1 | 25.3 |
| Texas ................................................................................. | 6,805.8 | 6,956.2 | 6,935.4 | 174.4 | 179.0 | 180.0 | 319.3 | 325.5 | 327.9 |
| Abilene | 47.3 | 48.2 | 47.6 | 1.5 | 1.5 | 1.4 | 1.6 | 1.6 | 1.6 |
| Amarilo ..................................................................................... | 76.4 | 77.3 | 76.7 | 1.3 | 1.1 | 1.1 | 3.5 | 3.5 | 3.6 |
| Austin .. | 356.5 | 366.9 | 361.7 | . 7 | . 7 | . 6 | 11.4 | 11.1 | 11.2 |
| Beaumont-Port Arthur | 134.8 | 139.7 | 139.3 | 1.5 | 1.7 | 1.7 | 9.7 | 10.7 | 10.7 |
| Brazoria | 61.8 | 65.5 | 64.7 | 2.1 | 2.1 | 2.1 | 8.1 | 9.9 | 9.7 |
| Brownsville-Harlingen ................................................................. | 72.6 | 76.7 | 75.3 | (') | (') |  | 2.2 | 2.2 | 2.2 |
| Bryan-College Station ................................................................. | 49.7 | 50.5 | 51.7 | . 5 | . 5 | . 5 | 1.5 | 1.7 | 1.7 |
| Corpus Christi ............................................................................ | 127.2 | 129.7 | 129.7 | 3.4 | 3.4 | 3.3 | 9.1 | 10.5 | 10.3 |
| Dallas. | 1,345.9 | 1,365.5 | 1,363.3 | 17.6 | 17.4 | 17.5 | 48.8 | 46.1 | 46.8 |
| El Paso | 202.0 | 207.5 | 206.7 | ( ${ }^{1}$ | (1) | (') | 8.4 | 8.4 | 8.4 |
| Ft. Worth-Arlington | 566.3 | 580.1 | 578.1 | 3.9 | 3.9 | 4.0 | 21.6 | 21.2 | 21.3 |
| Galveston-Texas City ................................................................. | 76.3 | 76.8 | 76.7 | . 5 | . 6 | . 6 | 6.3 | 6.4 | 6.4 |
| Houston ............................................................................ | 1,507.5 | 1,557.5 | 1,557.4 | 65.0 | 68.2 | 68.9 | 97.1 | 101.0 | 102.1 |
| Killeen-Temple ........................................................................... | 73.6 | 75.4 | 74.7 | (') | (1) | (1) | 3.4 | 3.2 | 3.2 |
| Laredo .................................................................................... | 41.8 | 44.2 | 44.3 | 1.6 | 1.7 | 1.7 | 1.2 | 1.2 | 1.2 |
| Longview-Marshall ..................................................................... | 67.5 | 69.1 | 68.9 | 3.5 | 3.5 | 3.5 | 3.0 | 3.6 | 3.7 |
| Lubbock ........................................................................... | 94.8 | 95.4 | 95.8 | . 3 | . 2 | . 2 | 3.4 | 3.3 | 3.6 |
| McAllien-Edinburg-Mission ........................................................... | 94.1 | 100.2 | 98.5 | . 9 | . 9 | . 9 | 4.2 | 4.4 | 4.7 |
| Midland .................................................................................... | 44.1 | 44.7 | 44.8 | 8.8 | 8.6 | 8.6 | 1.3 | 1.4 | 1.4 |
| Odessa | 42.0 | 42.4 | 42.6 | 5.1 | 4.9 | 4.9 | 1.9 | 2.0 | 2.1 |
| San Angelo ............................................................................... | 36.8 | 36.1 | 35.8 | . 5 | . 6 | . 6 | 1.2 | 1.1 | 1.1 |
| San Antonio ............................................................................ | 509.3 | 517.3 | 512.8 | 2.2 | 2.1 | 2.2 | 21.8 | 21.3 | 21.4 |
| Sherman-Denison ................................................................. | 36.7 | 36.5 | 36.5 | (1) | (') | (') | 1.7 | 1.6 | 1.7 |
| Texarkana ............................................................................... | 45.9 | 47.2 | 46.0 | . 1 | . 1 | . 1 | 1.6 | 1.5 | 1.5 |
| Tyler ........................................................................................ | 61.3 | 62.3 | 62.1 | 1.7 | 1.7 | 1.6 | 1.7 | 1.7 | 1.7 |
| Victonia ............................................................................................. | 27.2 | 28.5 | 28.6 | 1.2 | 1.5 | 1.5 | 1.5 | 2.0 | 2.0 |
| Waco .... | 79.3 | 81.5 | 80.4 | (') |  | (') | 3.1 | 3.1 | 3.2 |
| Wichita Falls ............................................................................. | 50.5 | 50.4 | 50.0 | 1.5 | 1.4 | 1.4 | 1.6 | 1.6 | 1.6 |

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued

| (In thousands) |  |
| :--- | :--- |
|  |  |

See footnotes at end of table.

B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued
(In thousands)

| State and area | Finance, insurance, and real estate |  |  | Services |  |  | Government |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\underset{1990^{\circ}}{\text { July }}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June 1990 | $\underset{1990^{\circ}}{\text { July }}$ | $\begin{gathered} \text { July } \\ \text { 1989 } \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ |
| Pennsylvania-Continued |  |  |  |  |  |  |  |  |  |
| Reading ............................................................................. | 9.0 | 9.1 | 9.0 | 32.3 | 33.3 | 33.1 | 15.5 | 17.5 | 15.9 |
| Scranton-Wilkes-Barre .......................................................... | 13.3 | 13.7 | 13.8 | 77.9 | 77.5 | 79.2 | 39.6 | 41.3 | 39.8 |
| Sharon ...... | 1.4 | 1.4 | 1.4 | 11.2 | 11.6 | 11.6 | 4.5 | 5.2 | 4.7 |
| State College ..... | 1.9 | 1.9 | 2.0 | 10.8 | 11.2 | 11.2 | 19.5 | 19.3 | 19.6 |
| Williamsport ....... | 2.4 | 2.4 | 2.4 | 10.5 | 10.7 | 10.9 | 6.4 | 6.9 | 6.5 |
| York ............................................................................ | 5.2 | 5.2 | 5.2 | 33.5 | 34.8 | 34.6 | 17.2 | 18.9 | 17.4 |
| Rhode island | 27.1 | 26.7 | 26.5 | 122.5 | 125.9 | 123.4 | 58.1 | 59.9 | 56.8 |
| Pawtucket-Woonsocket-Attleboro ........................................................ | 3.8 | 4.1 | 4.1 | 26.1 | 26.8 | 26.1 | 9.8 | 9.8 | 9.1 |
| Providence ..................................................... | 22.5 | 22.0 | 21.7 | 91.4 | 95.4 | 94.3 | 43.3 | 45.5 | 42.7 |
| South Caroina | 70.2 | 72.5 | 72.8 | 280.2 | 291.8 | 293.0 | 251.6 | 287.0 | 270.8 |
| Charleston .......... | 9.0 | 9.1 | 9.1 | 42.5 | 45.7 | 45.6 | 48.8 | 54.5 | 52.9 |
| Columbia ....................................................................... | 18.8 | 18.9 | 18.7 | 47.9 | 47.8 | 47.2 | 61.8 | 65.0 | 62.0 |
| Greerville-Spartanburg ............................................................ | 12.3 | 12.5 | 12.4 | 61.3 | 66.2 | 66.1 | 36.5 | 41.9 | 37.1 |
| South Dakota | 16.0 | 16.5 | 16.6 | 68.4 | 69.7 | 68.8 | 56.8 | 63.8 | 57.3 |
| Rapid City .... | 1.7 | 1.5 | 1.5 | 10.2 | 10.4 | 10.4 | 6.3 | 7.3 | 6.6 |
| Sioux Falls .................................................................................... | 7.5 | 7.9 | 7.9 | 19.2 | 19.8 | 19.9 | 7.1 | 8.9 | 7.7 |
| Tennessee .................................................................................................... | 104.9 | 104.4 | 104.5 | 472.9 | 484.1 | 483.8 | 318.5 | 336.4 | 321.2 |
| Chattanooga | 12.6 | 13.2 | 13.2 | 39.0 | 41.2 | 41.2 | 32.7 | 33.4 | 32.8 |
| Johnson City-Kingsport-Bristol ...................................................... | 5.5 | 5.4 | 5.3 | 29.9 | 33.6 | 33.4 | 22.9 | 25.6 | 24.9 |
| Knoxville .................................................................................. | 10.1 | 10.1 | 10.3 | 58.2 | 58.5 | 58.7 | 49.2 | 51.4 | 49.5 |
| Memphis ................................................................................ | 26.2 | 26.6 | 26.7 | 109.2 | 112.5 | 112.6 | 69.0 | 71.5 | 69.8 |
| Nashville ......................................................................................... | 32.2 | 32.4 | 32.3 | 130.1 | 135.7 | 135.6 | 64.7 | 67.2 | 64.3 |
| Texas | 434.4 | 434.1 | 433.6 | 1,623.8 | 1,672.3 | 1,677.2 | 1,185.3 | 1,254.0 | 1,221.5 |
| Abilene | 2.3 | 2.2 | 2.2 | 13.0 | 13.6 | 13.5 | 8.4 | 8.8 | 8.4 |
| Amarillo | 4.1 | 3.9 | 3.9 | 17.6 | 17.8 | 17.9 | 13.4 | 14.8 | 14.2 |
| Austin. | 23.9 | 24.0 | 24.1 | 92.4 | 93.8 | 94.1 | 93.7 | 102.7 | 96.8 |
| Beaumont-Port Arthur ...... | 5.3 | 5.4 | 5.4 | 31.9 | 33.2 | 33.3 | 19.6 | 21.1 | 20.5 |
| Brazoria | 1.8 | 1.8 | 1.8 | 8.8 | 9.3 | 9.2 | 10.7 | 11.4 | 10.8 |
| Brownsville-Harlingen ................. | 3.6 | 3.8 | 3.8 | 17.1 | 18.4 | 18.2 | 16.2 | 17.8 | 16.7 |
| Bryan-College Station .................................................................. | 1.7 | 1.8 | 1.7 | 9.2 | 9.2 | 9.5 | 20.5 | 20.6 | 21.4 |
| Corpus Christi .............................................................................. | 6.4 | 6.2 | 6.2 | 30.0 | 30.6 | 30.6 | 27.4 | 28.6 | 28.5 |
| Dallas ............................................................................. | 130.7 | 128.8 | 128.7 | 349.8 | 351.3 | 352.3 | 148.6 | 162.4 | 157.7 |
| El Paso .- | 8.5 | 8.3 | 8.5 | 41.9 | 43.3 | 43.7 | 39.4 | 44.0 | 42.2 |
| Ft. Worth-Arlington | 28.0 | 27.9 | 27.8 | 126.5 | 129.9 | 130.0 | 67.9 | 74.4 | 74.3 |
| Galveston-Texas City | 4.7 | 4.5 | 4.6 | 14.2 | 14.3 | 14.3 | 22.5 | 22.4 | 22.1 |
| Houston | 101.3 | 102.8 | 102.8 | 417.6 | 434.0 | 438.6 | 187.0 | 204.4 | 198.7 |
| Killeen-Temple .......................................................................... | 3.1 | 3.3 | 3.3 | 17.3 | 17.7 | 17.5 | 21.4 | 22.8 | 22.2 |
| Laredo ...................................................................................... | 1.8 | 1.9 | 1.9 | 7.0 | 7.4 | 7.4 | 9.1 | 9.9 | 9.9 |
| Longview-Marshall ..................................................................... | 2.7 | 2.7 | 2.7 | 13.0 | 13.6 | 13.7 | 8.6 | 8.9 | 8.5 |
| Lubbock ...................................................................................... | 5.5 | 5.4 | 5.4 | 23.8 | 23.8 | 23.8 | 21.9 | 22.1 | 21.9 |
| McAllen-Edinburg-Mission ........................................................... | 4.1 | 4.3 | 4.3 | 15.8 | 16.8 | 16.6 | 23.6 | 27.0 | 25.3 |
| Midiand .................................................................. | 2.4 | 2.4 | 2.4 | 9.7 | 9.7 | 9.8 | 6.4 | 6.9 | 7.0 |
| Odessa ........................................................................... | 1.6 | 1.5 | 1.5 | 7.6 | 7.8 | 7.8 | 7.3 | 7.4 | 7.4 |
| San Angelo ............................................................................... | 1.7 | 1.7 | 1.7 | 9.1 | 8.7 | 8.8 | 6.9 | 7.7 | 7.3 |
| San Antonio .............................................................................. | 41.1 | 40.8 | 40.5 | 133.8 | 135.2 | 135.4 | 111.9 | 119.4 | 114.6 |
| Sherman-Denison .. | 1.9 | 1.9 | 1.9 | 8.3 | 8.4 | 8.5 | 4.1 | 4.3 | 4.1 |
| Texarkana .................................................................................. | 1.8 | 1.8 | 1.8 | 10.4 | 11.0 | 10.9 | 11.6 | 12.4 | 11.3 |
| Tyler .......................................................................................... | 3.5 | 3.5 | 3.5 | 15.4 | 15.3 | 15.5 | 9.1 | 10.0 | 9.5 |
| Victoria .................................................................................... | 1.6 | 1.5 | 1.5 | 6.0 | 5.9 | 5.8 | 5.1 | 5.5 | 5.6 |
| Waco | 5.1 | 5.1 | 5.1 | 21.6 | 22.1 | 22.0 | 12.0 | 12.9 | 12.0 |
| Wichita Falls ........................................................................... | 2.3 | 2.3 | 2.4 | 12.5 | 12.7 | 12.6 | 9.6 | 10.0 | 9.6 |

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-8. Employees on nonfarm payrolis in States and selected areas by major industry-Continued
(In thousands)

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\underset{1990^{\circ}}{\text { July }}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { Juty } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ |
| Utah | 686.7 | 731.0 | 718.7 | 8.2 | 8.8 | 8.8 | 28.3 | 28.9 | 29.0 |
| Provo-Orem .. | 84.6 | 89.4 | 88.4 | (1) | (') | (') | 3.0 | 3.0 | 3.0 |
| Salt Lake City-Ogden ........................................................... | 478.2 | 499.4 | 493.9 | 2.7 | 2.8 | 2.8 | 19.3 | 20.5 | 20.6 |
| Vermont | 260.2 | 259.1 | 253.0 | . 6 | . 6 | . 5 | 19.7 | 16.3 | 16.4 |
| Barre-Montpelier ....... | 33.8 | 34.4 | 32.8 | (1) | (') | (1) | 2.7 | 2.5 | 2.3 |
| Burlington ...................................................................... | 80.0 | 80.2 | 78.8 | (1) | (') | (') | 5.9 | 4.6 | 4.7 |
| Virginia | 2,875.7 | 2,960.3 | 2,934.5 | 14.8 | 16.6 | 16.6 | 204.9 | 198.0 | 199.6 |
| Bristol .... | 32.2 | 33.7 | 33.4 | (') |  |  | 1.2 | 1.1 | 1.1 |
| Charottesville ....................................................................... | 71.8 | 76.4 | 75.1 | (1) | () | ( ${ }^{(1)}$ | 4.6 | 4.4 | 4.4 |
| Danville .................................................................................. | 41.4 | 41.8 | 41.1 | ( ${ }^{\text {( }}$ | (') | (') | 2.4 | 2.2 | 2.3 |
| Lynchburg ... | 75.7 | 78.3 | 76.0 | (1) | (') | (1) | 3.8 | 3.9 | 3.9 |
| Norfolk-Virginia Beach-Newport News ... | 590.9 | 604.1 | 597.4 |  | (') | (') | 38.8 | 37.8 | 37.6 |
| Northern Virginia ........................ | 785.0 | 794.4 | 787.4 | . 6 | . 6 | . 6 | 65.7 | 56.8 | 56.8 |
| Richmond-Petersburg ............................................................. | 471.0 | 478.4 | 476.2 | . 8 | . 8 | . 8 | 32.1 | 31.4 | 32.1 |
| Roanoke ........................................................................... | 125.6 | 127.9 | 127.1 | (') | (') | (') | 8.3 | 7.9 | 8.2 |
| Washington ................................................................................................... | 2,053.7 | 2,163.9 | 2,136.5 | 3.7 | 3.9 | 3.9 | 113.9 | 121.2 | 125.5 |
| Seattle ..................................................................................... | 1,067.6 | 1,112.7 | 1,106.9 | . 5 | 6 | . 6 | 62.9 | 59.9 | 63.3 |
| West Virginla ...... | 604.9 | 629.7 | 631.2 | 17.9 | 36.2 | 36.2 | 25.3 | 24.7 | 24.6 |
| Charleston ... | 108.9 | 113.0 | 113.8 | 1.1 | 2.0 | 2.0 | 4.1 | 5.2 | 5.3 |
| Huntingtor-Ashland | 108.9 | 111.3 | 110.9 | 1.1 | 1.6 | 1.6 | 5.5 | 5.7 | 5.5 |
| Parkersburg-Marietta | 61.9 | 62.8 | 62.7 | . 5 | . 5 | . 5 | 3.2 | 3.5 | 3.4 |
| Wheeling .................................................................................... | 59.4 | 62.3 | 62.6 | . 8 | 2.5 | 2.5 | 2.2 | 2.3 | 2.3 |
| Wisconsin | 2,240.3 | 2,302.6 | 2,284.6 | 2.6 | 2.7 | 2.7 | 89.5 | 88.8 | 91.4 |
| Appleton-Oshkosh-Neenah ...................................................... | 157.7 | 182.2 | 161.2 | ( ${ }^{\text {( }}$ | (1) |  | 7.7 | 8.0 | 8.2 |
| Eau Claire ............................................................................. | 60.1 | 62.4 | 61.8 | (1) | (') | (') | 2.1 | 2.9 | 2.8 |
| Green Bay ..................... | 101.6 | 105.5 | 104.7 | (1) | (1) | (1) | 4.7 | 5.8 | 5.9 |
| Janesville-Beloit .... | 58.2 | 59.7 | 59.3 | (') | (') | (') | 2.1 | 2.0 | 1.9 |
| Kenosha .. | 39.5 | 41.0 | 40.2 | (1) | (1) | (1) | 1.6 | 1.7 | 1.6 |
| La Crosse | 52.9 | 53.9 | 53.3 | (1) | (') | (') | 2.2 | 2.0 | 2.1 |
| Madison .. | 213.1 | 219.7 | 220.4 | () | (') | (1) | 9.1 | 9.0 | 9.3 |
| Milwaukee ... | 746.3 | 770.5 | 762.6 | (1) | (') | (') | 28.9 | 27.8 | 28.5 |
| Racine ....... | 76.9 | 79.5 | 78.2 | () | (') | (') | 2.9 | 2.5 | 2.5 |
| Sheboygan ............................................................................... | 52.8 | 54.2 | 54.2 | (1) | (') | (') | 1.7 | 1.4 | 1.5 |
| Wausau ...................................................................................... | 52.8 | 54.9 | 54.5 | (1) | (') | (') | 2.2 | 2.1 | 2.3 |
| Wyoming | 198.7 | 205.2 | 200.1 | 17.7 | 17.7 | 17.9 | 11.6 | 11.6 | 11.7 |
| Casper ..................................................................................... | 27.8 | 28.7 | 28.2 | 2.4 | 2.4 | 2.4 | 1.7 | 1.6 | 1.7 |
| Puerto Rico .............................................................................. | 858.2 | 877.3 | 874.9 |  | . 9 | . 9 | 43.8 | 46.5 | 46.7 |
| Caguas ................. | 54.0 | 54.5 | 54.5 | (') | (') |  | 1.5 | 1.2 | 1.2 |
| Mayaguez ..... | 62.7 | 61.6 | 61.5 | (1) | (1) | (1) | 2.8 | 2.2 | 2.1 |
| Ponce ...................................................................................... | 59.7 | 61.7 | 61.9 |  | (') | (') | 3.9 | 5.0 | 5.0 |
| San Juan ....................................................................................... | 519.7 | 530.5 | 528.1 | . 5 | . 6 | . 5 | 32.0 | 33.4 | 33.4 |
| Virgin Islands ............................................................................. | 43.8 | 41.6 | 41.5 | (1) | (') | (') | 2.4 | 2.7 | 2.6 |

See footnotes at end of table

B-8. Employees on nonfarm payrolls in States and selected areas by major industry-Continued

| State and area | Manufacturing |  |  | Transportation and public utilities |  |  | Wholesale and retail trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ |
| Utah | 103.3 | 106.7 | 106.3 | 41.1 | 43.3 | 43.2 | 167.5 | 178.3 | 177.3 |
| Provo-Orem | 13.4 | 13.4 | 13.6 | 2.8 | 2.7 | 2.8 | 20.1 | 20.8 | 20.7 |
| Salt Lake City-Ogden ....................................................................... | 67.1 | 68.4 | 68.2 | 31.4 | 32.9 | 32.8 | 120.4 | 124.6 | 123.7 |
| Vermont .............................................................................................. | 48.1 | 45.5 | 44.6 | 10.8 | 11.0 | 10.8 | 62.6 | 61.3 | 61.4 |
| Barre-Montpelier ............................................................................... | 4.6 | 4.8 | 4.6 | . 9 | . 9 | . 9 | 7.7 | 7.4 | 7.3 |
| Burlington ......................................................................................... | 16.5 | 15.4 | 15.3 | 3.6 | 3.7 | 3.8 | 20.3 | 20.3 | 20.1 |
| Virginia | 427.8 | 424.1 | 421.2 | 150.5 | 155.2 | 154.6 | 659.5 | 672.7 | 674.3 |
| Bristol .............................................................................................. | 10.4 | 10.6 | 10.5 | 1.2 | 1.2 | 1.2 | 8.6 | 8.9 | 9.0 |
| Charlottesville .................................................................................. | 9.1 | 9.0 | 8.8 | 2.7 | 2.8 | 2.8 | 14.7 | 15.0 | 15.1 |
| Danville ....... | 16.5 | 15.6 | 15.6 | 1.0 | 1.0 | 1.0 | 9.2 | 9.3 | 9.4 |
| Lynchburg | 23.9 | 23.7 | 23.8 | 2.9 | 2.6 | 2.6 | 17.0 | 17.6 | 17.5 |
| Norfolk-Virginia Beach-Newport News ............................................. | 68.9 | 68.9 | 68.9 | 27.6 | 27.8 | 28.1 | 146.7 | 147.5 | 146.4 |
| Northern Virginia .............................................................................. | 35.8 | 35.3 | 35.0 | 54.2 | 56.4 | 56.3 | 176.2 | 180.6 | 179.8 |
| Richmond-Petersburg ...................................................................... | 64.6 | 63.0 | 62.8 | 24.5 | 24.3 | 24.3 | 111.7 | 111.9 | 111.6 |
| Roanoke .......................................................................................... | 19.7 | 19.6 | 19.3 | 8.1 | 7.9 | 7.9 | 33.8 | 34.0 | 34.5 |
| Washington ....................................................................................... | 367.7 | 365.2 | 365.9 | 110.1 | 113.6 | 114.0 | 505.9 | 536.9 | 536.9 |
| Seattle .............................................................................................. | 217.9 | 218.6 | 219.2 | 67.1 | 70.5 | 71.5 | 258.9 | 269.8 | 271.1 |
| West Virginla ..................................................................................... | 88.2 | 88.5 | 87.8 | 36.9 | 37.3 | 37.2 | 146.7 | 146.6 | 147.1 |
| Charleston | 10.8 | 11.1 | 11.1 | 9.0 | 9.2 | 9.2 | 29.2 | 30.0 | 30.0 |
| Huntington-Ashland | 20.5 | 20.6 | 20.7 | 8.2 | 8.1 | 8.1 | 27.4 | 28.0 | 28.0 |
| Parkersburg-Marietta ........................................................................ | 14.6 | 14.3 | 14.2 | 2.6 | 2.6 | 2.6 | 15.2 | 15.5 | 15.5 |
| Wheeling ......................................................................................... | 7.4 | 7.6 | 7.6 | 3.5 | 3.5 | 3.5 | 16.6 | 17.0 | 17.1 |
| Wisconsin .......................... | 563.8 | 564.3 | 568.1 | 98.8 | 101.2 | 99.9 | 538.8 | 552.9 | 552.9 |
| Appleton-Oshkosh-Neenah | 55.8 | 55.4 | 55.5 | 5.2 | 5.6 | 5.6 | 34.1 | 35.5 | 35.5 |
| Eau Claire | 11.7 | 10.8 | 10.9 | 3.4 | 3.6 | 3.6 | 16.6 | 17.1 | 17.0 |
| Green Bay ......... | 25.8 | 25.1 | 25.7 | 7.5 | 7.5 | 7.6 | 26.2 | 26.9 | 26.5 |
| Janesville-Beloit ................................................................................ | 17.8 | 17.8 | 17.7 | 2.3 | 2.2 | 2.2 | 14.0 | 14.1 | 14.0 |
| Kenosha ... | 10.2 | 9.6 | 8.7 | 1.5 | 1.9 | 2.0 | 10.4 | 10.8 | 11.0 |
| La Crosse ........................................................................................ | 10.5 | 10.3 | 10.3 | 2.3 | 2.5 | 2.5 | 14.4 | 14.1 | 14.0 |
| Madison . | 25.4 | 26.2 | 26.6 | 6.7 | 6.7 | 6.5 | 48.7 | 51.0 | 51.0 |
| Milwaukee | 172.3 | 173.7 | 172.8 | 35.6 | 37.0 | 36.0 | 173.4 | 160.2 | 180.1 |
| Racine | 25.4 | 26.5 | 25.3 | 2.4 | 2.2 | 2.2 | 18.6 | 19.0 | 19.3 |
| Sheboygan ....................................................................................... | 22.5 | 22.7 | 23.2 | 1.6 | 1.6 | 1.6 | 9.8 | 10.1 | 10.1 |
| Wausau ........................................................................................... | 15.6 | 15.6 | 15.7 | 2.9 | 3.1 | 3.1 | 13.4 | 14.0 | 14.0 |
| Wyoming ........................................................................................... | 9.0 | 9.0 | 9.0 | 14.8 | 14.7 | 14.8 | 47.4 | 47.6 | 48.7 |
| Casper ............................................................................................. | 1.7 | 1.7 | 1.7 | 1.7 | 1.8 | 1.9 | 8.0 | 7.9 | 7.9 |
| Puerto Rico | 156.5 | 155.9 | 154.0 | 18.4 | 19.5 | 19.3 | 150.3 | 156.2 | 155.3 |
| Caguas ..... | 15.3 | 14.6 | 14.5 | . 4 | . 4 | . 4 | 10.8 | 11.3 | 11.3 |
| Mayaguez ........................................................................................ | 21.3 | 20.4 | 20.0 | . 4 | . 6 | . 5 | 8.2 | 8.5 | 8.4 |
| Ponce .... | 10.0 | 10.2 | 9.9 | 2.0 | 2.0 | 1.8 | 8.8 | 8.8 | 8.8 |
| San Juan ......................................................................................... | 65.9 | 68.2 | 67.4 | 14.1 | 14.5 | 14.4 | 102.7 | 104.8 | 104.1 |
| Virgin Islands ...................................................................................... | 2.4 | 2.3 | 2.3 | 2.5 | 2.3 | 2.2 | 10.1 | 10.5 | 10.4 |

See footnotes at end of table.

## ESTABLISHMENT DATA

STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-8. Employees on nonfarm payrolls in States and selected areas by major Industry-Continued

| State and area | Finance, insurance, and real estate |  |  | Services |  |  | Government |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ |
| Utah | 33.4 | 34.4 | 34.6 | 168.0 | 179.7 | 178.8 | 136.9 | 150.9 | 140.7 |
| Provo-Orem | 2.3 | 2.4 | 2.3 | 30.1 | 32.8 | 32.6 | 12.9 | 14.3 | 13.2 |
| Salt Lake City-Ogden ........................................................................ | 27.7 | 27.6 | 27.6 | 115.7 | 122.9 | 123.0 | 91.9 | 99.7 | 95.2 |
| Vermont .............................................................................................. | 13.4 | 13.5 | 13.5 | 67.6 | 66.5 | 67.4 | 37.4 | 44.4 | 38.4 |
| Barre-Montpelier ............................................................................... | 3.2 | 3.1 | 2.9 | 8.0 | 8.0 | 8.0 | 6.7 | 7.7 | 6.8 |
| Burlington ......................................................................................... | 4.1 | 4.3 | 4.3 | 19.3 | 19.6 | 19.6 | 10.3 | 12.3 | 11.0 |
| Virginia .............................................................................................. | 155.6 | 157.7 | 158.6 | 719.7 | 749.4 | 748.7 | 542.9 | 586.6 | 560.9 |
| Bristol .............................................................................................. | 1.2 | 1.2 | 1.2 | 4.9 | 5.1 | 4.8 | 4.7 | 5.6 | 5.6 |
| Charlottesville | 4.5 | 4.7 | 4.7 | 13.9 | 14.3 | 14.1 | 22.3 | 26.2 | 25.2 |
| Danville ............................................................................................ | 1.3 | 1.3 | 1.3 | 6.3 | 6.7 | 6.7 | 4.7 | 5.7 | 4.8 |
| Lynchburg ........................................................................................ | 3.8 | 3.8 | 3.8 | 15.0 | 16.7 | 14.9 | 9.3 | 10.0 | 9.5 |
| Norfolk-Virginia Beach-Newport News .............................................. | 27.3 | 28.0 | 28.1 | 151.9 | 156.0 | 156.1 | 129.7 | 138.1 | 132.2 |
| Northern Virginia ............................................................................... | 52.5 | 52.2 | 52.1 | 257.5 | 260.3 | 258.8 | 142.5 | 152.2 | 148.0 |
| Richmond-Petersburg | 39.6 | 40.2 | 40.1 | 106.0 | 109.5 | 109.9 | 91.7 | 97.3 | 94.6 |
| Roanoke .......................................................................................... | 9.0 | 8.9 | 8.9 | 31.8 | 33.1 | 33.1 | 14.9 | 16.5 | 15.2 |
| Washington ....................................................................................... | 113.7 | 117.4 | 118.0 | 477.9 | 502.7 | 504.6 | 360.8 | 403.0 | 367.7 |
| Seattle ............................................................................................. | 72.1 | 73.5 | 73.7 | 256.4 | 268.1 | 268.5 | 131.8 | 151.7 | 139.0 |
| West Virginia ...................................................................................... | 24.2 | 24.7 | 24.6 | 139.6 | 145.6 | 145.3 | 126.1 | 126.1 | 128.4 |
| Charleston. | 6.2 | 8.2 | 6.2 | 27.7 | 28.7 | 28.8 | 20.8 | 20.6 | 21.2 |
| Huntington-Ashland | 3.9 | 3.9 | 3.9 | 24.3 | 24.6 | 24.7 | 18.0 | 18.8 | 18.4 |
| Parkersburg-Marietta ......................................................................... | 2.2 | 2.3 | 2.3 | 14.3 | 14.5 | 14.4 | 9.3 | 9.6 | 9.8 |
| Wheeling ......................................................................................... | 2.9 | 3.1 | 3.1 | 16.6 | 16.7 | 16.7 | 9.4 | 9.6 | 9.8 |
| Wisconsin .......................................................................................... | 119.9 | 121.7 | 122.3 | 514.2 | 529.0 | 528.1 | 312.7 | 342.2 | 319.1 |
| Appleton-Oshkosh-Neenah .............................................................. | 7.5 | 7.7 | 7.7 | 31.6 | 32.2 | 32.4 | 15.7 | 17.9 | 16.4 |
| Eau Claire | 1.9 | 1.9 | 2.0 | 14.3 | 15.3 | 15.3 | 10.1 | 10.8 | 10.3 |
| Green Bay ........................................................................................ | 4.0 | 4.3 | 4.4 | 23.4 | 24.5 | 24.2 | 10.1 | 11.4 | 10.4 |
| Janesville-Beloit ............................................................................... | 1.7 | 1.6 | 1.7 | 13.4 | 14.0 | 14.1 | 7.1 | 8.0 | 7.8 |
| Kenosha ............................................................................................ | 1.3 | 1.3 | 1.3 | 8.7 | 9.6 | 9.8 | 5.7 | 6.2 | 5.8 |
| La Crosse ......................................................................................... | 1.6 | 1.7 | 1.7 | 15.2 | 16.1 | 15.9 | 6.5 | 7.2 | 6.8 |
| Madison ............................................................................................ | 19.1 | 19.3 | 19.4 | 47.2 | 49.0 | 49.0 | 56.7 | 58.4 | 58.5 |
| Milwaukee | 51.2 | 51.6 | 52.0 | 205.1 | 212.4 | 213.0 | 79.3 | 87.5 | 79.9 |
| Racine ....... | 2.4 | 2.4 | 2.4 | 17.0 | 18.0 | 17.9 | 8.2 | 8.8 | 8.5 |
| Sheboygan ....................................................................................... | 2.8 | 2.5 | 2.5 | 9.6 | 10.4 | 10.3 | 5.0 | 5.4 | 5.0 |
| Wausau ...................................................................................... | 3.4 | 3.4 | 3.4 | 9.7 | 10.7 | 10.6 | 5.6 | 6.1 | 5.6 |
| Wyoming .......................................................................................... | 7.4 | 7.4 | 7.4 | 41.7 | 41.4 | 42.1 | 49.1 | 55.8 | 48.5 |
| Casper ............................................................................................ | 1.4 | 1.4 | 1.4 | 6.4 | 6.5 | 6.5 | 4.5 | 5.4 | 4.7 |
| Puerto Rico ........................................................................................ | 36.9 | 36.6 | 36.7 | 125.8 | 134.1 | 133.8 | 325.6 | 327.6 | 328.2 |
| Caguas ....... | 1.3 | 1.4 | 1.4 | 8.1 | 6.6 | 6.7 | 18.6 | 19.0 | 19.0 |
| Mayaguez | 1.3 | 1.3 | 1.4 | 7.6 | 7.5 | 7.4 | 21.0 | 21.1 | 21.6 |
| Ponce ..................................................................................... | 1.9 | 1.8 | 1.8 | 10.5 | 11.3 | 11.5 | 22.5 | 22.7 | 23.0 |
| San Juan ............................................................................................ | 29.8 | 29.9 | 29.9 | 89.4 | 94.1 | 93.8 | 185.3 | 185.2 | 184.5 |
| Virgin Islands .................................................................................... | 2.0 | 1.9 | 1.9 | 9.7 | 8.5 | 8.4 | 14.7 | 13.4 | 13.7 |

1 Combined with construction.
2 Not available.
$\mathrm{p}=$ preliminary
NOTE: Area definitions are published annually in the May issue of this publication.

All State and area data have been adiusted to March 1989 benchmarks, and industry detail are classified in accordance with the 1987 Standard Industrial Classification (SIC) Manual.

C-1. Average hours and earnings of production or nonsupervisory workers' on prlvate nonfarm payrolls by major industry, 1964 to date

| Year and month | Total private ${ }^{1}$ |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weekly hours | Hourly earnings | Weekly earnings | Weekly hours | Hourly earnings | Weekly eamings | Weekly hours | Hourly earnings | Weekly earnings |
|  | Annual averages |  |  |  |  |  |  |  |  |
| 1964 | 38.7 | \$2.36 | \$91.33 | 41.9 | \$2.81 | \$117.74 | 37.2 | \$3.55 | \$132.06 |
| 1965 | 38.8 | 2.46 | 95.45 | 42.3 | 2.92 | 123.52 | 37.4 | 3.70 | 138.38 |
| 1966 | 38.6 | 2.56 | 98.82 | 42.7 | 3.05 | 130.24 | 37.6 | 3.89 | 146.26 |
| 1967 | 38.0 | 2.68 | 101.84 | 42.6 | 3.19 | 135.89 | 37.7 | 4.11 | 154.95 |
| 1968 ............................. | 37.8 | 2.85 | 107.73 | 42.6 | 3.35 | 142.71 | 37.3 | 4.41 | 164.49 |
| 1969 ............................. | 37.7 | 3.04 | 114.61 | 43.0 | 3.60 | 154.80 | 37.9 | 4.79 | 181.54 |
| 1970 ............................. | 37.1 | 3.23 | 119.83 | 42.7 | 3.85 | 164.40 | 37.3 | 5.24 | 195.45 |
| 1971 ............................. | 36.9 | 3.45 | 127.31 | 42.4 | 4.06 | 172.14 | 37.2 | 5.69 | 211.67 |
| 1972 ............................. | 37.0 | 3.70 | 136.90 | 42.6 | 4.44 | 189.14 | 36.5 | 6.06 | 221.19 |
| 1973 ............................ | 36.9 | 3.94 | 145.39 | 42.4 | 4.75 | 201.40 | 36.8 | 6.41 | 235.89 |
| 1974 ............................ | 36.5 | 4.24 | 154.76 | 41.9 | 5.23 | 219.14 | 36.6 | 6.81 | 249.25 |
| 1975 ........................... | 36.1 | 4.53 | 163.53 | 41.9 | 5.95 | 249.31 | 36.4 | 7.31 | 266.08 |
| 1976 ............................ | 36.1 | 4.86 | 175.45 | 42.4 | 6.46 | 273.90 | 36.8 | 7.71 | 283.73 |
| 1977 ............................ | 36.0 | 5.25 | 189.00 | 43.4 | 6.94 | 301.20 | 36.5 | 8.10 | 295.65 |
| 1978 ........................... | 35.8 | 5.69 | 203.70 | 43.4 | 7.67 | 332.88 | 36.8 | 8.66 | 318.69 |
| 1979 ............................. | 35.7 | 6.16 | 219.91 | 43.0 | 8.49 | 365.07 | 37.0 | 9.27 | 342.99 |
| 1980. | 35.3 | 6.66 | 235.10 | 43.3 | 9.17 | 397.06 | 37.0 | 9.94 | 367.78 |
| 1981 ............................. | 35.2 | 7.25 | 255.20 | 43.7 | 10.04 | 438.75 | 36.9 | 10.82 | 399.26 |
| 1982 ............................. | 34.8 | 7.68 | 267.26 | 42.7 | 10.77 | 459.88 | 36.7 | 11.63 | 426.82 |
| 1983 ......................... | 35.0 | 8.02 | 280.70 | 42.5 | 11.28 | 479.40 | 37.1 | 11.94 | 442.97 |
| 1984. | 35.2 | 8.32 | 292.86 | 43.3 | 11.63 | 503.58 | 37.8 | 12.13 | 458.51 |
| 1985 ........................... | 34.9 | 8.57 | 299.09 | 43.4 | 11.98 | 519.93 | 37.7 | 12.32 | 464.46 |
| 1986 | 34.8 | 8.76 | 304.85 | 42.2 | 12.46 | 525.81 | 37.4 | 12.48 | 466.75 |
| 1987 ............................ | 34.8 | 8.98 | 312.50 | 42.4 | 12.54 | 531.70 | 37.8 | 12.71 | 480.44 |
| 1988 ............................. | 34.7 | 9.28 | 322.02 | 42.3 | 12.80 | 541.44 | 37.9 | 13.08 | 495.73 |
| 1989 ............................ | 34.6 | 9.66 | 334.24 | 43.0 | 13.25 | 569.75 | 37.9 | 13.52 | 512.41 |
|  | Monthly data, not seasonally adjusted |  |  |  |  |  |  |  |  |
| 1989: |  |  |  |  |  |  |  |  |  |
| August ........................ | 34.9 | \$9.61 | \$335.39 | 43.5 | \$13.22 | \$575.07 | 38.9 | \$13.51 | \$525.54 |
| September .................. | 34.7 | 9.77 | 339.02 | 44.0 | 13.29 | 584.76 | 38.6 | 13.65 | 526.89 |
| October ..................... | 34.8 | 9.81 | 341.39 | 44.1 | 13.23 | 583.44 | 39.2 | 13.71 | 537.43 |
| November ................... | 34.5 | 9.81 | 338.45 | 43.8 | 13.27 | 581.23 | 38.0 | 13.69 | 520.22 |
| December ................... | 34.6 | 9.84 | 340.46 | 43.7 | 13.46 | 588.20 | 37.0 | 13.84 | 512.08 |
| 1990: |  |  |  |  |  |  |  |  |  |
| January ...................... | 34.1 | 9.87 | 336.57 | 43.6 | 13.46 | 586.86 | 37.6 | 13.59 | 510.98 |
| February .................... | 34.2 | 9.91 | 338.92 | 43.3 | 13.46 | 582.82 | 37.3 | 13.59 | 506.91 |
| March ........................ | 34.3 | 9.93 | 340.60 | 43.0 | 13.57 | 583.51 | 37.9 | 13.63 | 516.58 |
| April ........................... | 34.4 | 9.97 | 342.97 | 43.1 | 13.66 | 588.75 | 37.3 | 13.58 | 506.53 |
| May ........................... | 34.4 | 9.97 | 342.97 | 43.2 | 13.56 | 585.79 | 38.2 | 13.68 | 522.58 |
| June .......................... | 34.8 | 9.98 | 347.30 | 44.4 | 13.66 | 606.50 | 39.1 | 13.63 | 532.93 |
| July ${ }^{\text {P }}$.......................... | 34.9 | 10.00 | 349.00 | 43.6 | 13.65 | 595.14 | 38.3 | 13.70 | 524.71 |
| August ${ }^{\text {...................... }}$ | 34.8 | 9.99 | 347.65 | 44.0 | 13.59 | 597.96 | 39.0 | 13.74 | 535.86 |

See footnotes at end of table.

## ESTABLISHMENT DATA

HISTORICAL HOURS AND EARNINGS
C-1. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by major industry, 1964 to date-Continued

| Year and month | Manufacturing |  |  |  | Transportation and public utilities |  |  | Wholesale trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weekly hours | Hourly earnings | Hourly earnings, excluding overtime | Weekly earnings | Weekly hours | Hourly earnings | Weekly earnings | Weekly hours | Hourly earnings | Weekly earnings |
|  | Annual averages |  |  |  |  |  |  |  |  |  |
| 1964 | 40.7 | \$2.53 | \$2.43 | \$102.97 | 41.1 | \$2.89 | \$118.78 | 40.7 | \$2.52 | \$102.36 |
| 1965 ............................ | 41.2 | 2.61 | 2.50 | 107.53 | 41.3 | 3.03 | 125.14 | 40.8 | 2.60 | 106.27 |
| 1966 | 41.4 | 2.71 | 2.59 | 112.19 | 41.2 | 3.11 | 128.13 | 40.7 | 2.73 | 111.08 |
| 1967 ....................... | 40.6 | 2.82 | 2.71 | 114.49 | 40.5 | 3.23 | 130.82 | 40.3 | 2.87 | 115.85 |
| 1968 ............................. | 40.7 | 3.01 | 2.88 | 122.51 | 40.6 | 3.42 | 138.85 | 40.1 | 3.04 | 121.89 |
| 1969 ............................ | 40.6 | 3.19 | 3.05 | 129.51 | 40.7 | 3.63 | 147.74 | 40.2 | 3.23 | 129.74 |
| 1970. | 39.8 | 3.35 | 3.23 | 133.33 | 40.5 | 3.85 | 155.93 | 39.9 | 3.43 | 136.91 |
| 1971 ............................ | 39.9 | 3.57 | 3.45 | 142.44 | 40.1 | 4.21 | 168.82 | 39.4 | 3.64 | 143.68 |
| 1972 | 40.5 | 3.82 | 3.66 | 154.71 | 40.4 | 4.65 | 187.86 | 39.4 | 3.85 | 151.42 |
| 1973 ............................ | 40.7 | 4.09 | 3.91 | 166.46 | 40.5 | 5.02 | 203.31 | 39.2 | 4.07 | 159.74 |
| 1974 ........................... | 40.0 | 4.42 | 4.25 | 176.80 | 40.2 | 5.41 | 217.48 | 38.8 | 4.38 | 170.11 |
| 1975 .. | 39.5 | 4.83 | 4.67 | 190.79 | 39.7 | 5.88 | 233.44 | 38.6 | 4.72 | 182.42 |
| 1976 ......................... | 40.1 | 5.22 | 5.02 | 209.32 | 39.8 | 6.45 | 256.71 | 38.7 | 5.02 | 194.15 |
| 1977 ........................... | 40.3 | 5.68 | 5.44 | 228.90 | 39.9 | 6.99 | 278.90 | 38.8 | 5.39 | 208.76 |
| 1978 ............................ | 40.4 | 6.17 | 5.91 | 249.27 | 40.0 | 7.57 | 302.80 | 38.8 | 5.88 | 227.87 |
| 1979 ............................. | 40.2 | 6.70 | 6.43 | 269.34 | 39.9 | 8.16 | 325.58 | 38.8 | 6.39 | 247.65 |
| 1980 ........................... | 39.7 | 7.27 | 7.02 | 288.62 | 39.6 | 8.87 | 351.25 | 38.4 | 6.95 | 267.13 |
| 1981 ............................ | 39.8 | 7.99 | 7.72 | 318.00 | 39.4 | 9.70 | 382.18 | 38.5 | 7.55 | 290.75 |
| 1982 ............................. | 38.9 | 8.49 | 8.25 | 330.26 | 39.0 | 10.32 | 402.48 | 38.3 | 8.08 | 309.23 |
| 1983 ............................. | 40.1 | 8.83 | 8.52 | 354.08 | 39.0 | 10.79 | 420.81 | 38.5 | 8.54 | 328.25 |
| 1984 ........................... | 40.7 | 9.19 | 8.82 | 374.03 | 39.4 | 11.12 | 438.13 | 38.5 | 8.88 | 341.78 |
| 1985. | 40.5 | 9.54 | 9.16 | 386.37 | 39.5 | 11.40 | 450.30 | 38.4 | 9.15 | 351.08 |
| 1986 ............................ | 40.7 | 9.73 | 9.34 | 396.01 | 39.2 | 11.70 | 458.64 | 38.3 | 9.34 | 357.57 |
| 1987 | 41.0 | 9.91 | 9.48 | 406.31 | 39.2 | 12.03 | 471.58 | 38.1 | 9.59 | 365.30 |
| 1988 ............................ | 41.1 | 10.19 | 9.73 | 418.81 | 38.8 | 12.26 | 475.69 | 38.1 | 9.98 | 380.24 |
| 1989 ............................... | 41.0 | 10.49 | 10.02 | 430.09 | 38.9 | 12.61 | 490.53 | 38.0 | 10.39 | 394.82 |
|  | Monthly data, not seasonally adjusted |  |  |  |  |  |  |  |  |  |
| 1989: |  |  |  |  |  |  |  |  |  |  |
| August | 40.9 | \$10.46 | \$9.99 | \$427.81 | 38.9 | \$12.61 | \$490.53 | 38.0 | \$10.36 | \$393.68 |
| September .................. | 41.2 | 10.56 | 10.06 | 435.07 | 38.9 | 12.73 | 495.20 | 38.1 | 10.48 | 399.29 |
| October ...................... | 40.9 | 10.54 | 10.06 | 431.09 | 39.0 | 12.74 | 496.86 | 38.2 | 10.51 | 401.48 |
| November ................... | 41.1 | 10.59 | 10.11 | 435.25 | 38.7 | 12.71 | 491.88 | 38.1 | 10.56 | 402.34 |
| December ................... | 41.3 | 10.68 | 10.20 | 441.08 | 38.7 | 12.76 | 493.81 | 38.2 | 10.63 | 406.07 |
| 1990: |  |  |  |  |  |  |  |  |  |  |
| January ...................... | 40.6 | 10.60 | 10.16 | 430.36 | 37.8 | 12.79 | 483.46 | 37.8 | 10.61 | 401.06 |
| February ..................... | 40.4 | 10.68 | 10.25 | 431.47 | 38.4 | 12.87 | 494.21 | 37.8 | 10.66 | 402.95 |
| March ......................... | 40.7 | 10.75 | 10.30 | 437.53 | 38.7 | 12.83 | 496.52 | 37.9 | 10.66 | 404.01 |
| April ........................... | 39.8 | 10.75 | 10.37 | 427.85 | 38.9 | 12.96 | 504.14 | 38.1 | 10.78 | 410.72 |
| May ........................... | 40.9 | 10.81 | 10.36 | 442.13 | 38.9 | 12.82 | 498.70 | 38.0 | 10.73 | 407.74 |
| June .......................... | 41.1 | 10.85 | 10.37 | 445.94 | 39.4 | 12.86 | 506.68 | 38.2 | 10.76 | 411.03 |
| July ${ }^{\text {p }}$.......................... | 40.5 | 10.88 | 10.41 | 440.64 | 39.4 | 12.96 | 510.62 | 38.3 | 10.83 | 414.79 |
| August ${ }^{\text {P }}$...................... | 40.9 | 10.84 | 10.34 | 443.36 | 39.4 | 12.95 | 510.23 | 38.0 | 10.75 | 408.50 |

See footnotes at end of table.

C-1. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by major industry, 1964 to date-Continued

| Year and month | Retail trade |  |  | Finance, insurance, and real estate |  |  | Services |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weekly hours | Hourly earnings | Weekly earnings | Weekly hours | Hourly earnings | Weekly earnings | Weekly hours | Hourly earnings | Weekly earnings |
|  | Annual averages |  |  |  |  |  |  |  |  |
| 1964 | 37.0 | \$1.75 | \$64.81 | 37.3 | \$2.30 | \$85.77 | 36.1 | \$1.94 | \$70.05 |
| 1965 | 36.6 | 1.82 | 66.65 | 37.2 | 2.39 | 88.85 | 35.9 | 2.05 | 73.60 |
| 1966 | 35.9 | 1.91 | 68.50 | 37.3 | 2.47 | 92.21 | 35.5 | 2.17 | 76.92 |
| 1967 | 35.3 | 2.01 | 70.86 | 37.1 | 2.58 | 95.70 | 35.1 | 2.29 | 80.30 |
| 1968 ......................... | 34.7 | 2.16 | 74.93 | 37.0 | 2.75 | 101.70 | 34.7 | 2.42 | 84.08 |
| 1969 ............................. | 34.2 | 2.30 | 78.67 | 37.1 | 2.93 | 108.56 | 34.7 | 2.61 | 90.62 |
| 1970 ... | 33.8 | 2.44 | 82.31 | 36.7 | 3.07 | 112.79 | 34.4 | 2.81 | 96.52 |
| 1971 ............................. | 33.7 | 2.60 | 87.51 | 36.6 | 3.22 | 118.02 | 33.9 | 3.04 | 103.04 |
| 1972 ............................. | 33.4 | 2.75 | 92.03 | 36.6 | 3.36 | 122.94 | 33.9 | 3.27 | 110.62 |
| 1973 ............................ | 33.1 | 2.91 | 96.45 | 36.6 | 3.53 | 129.34 | 33.8 | 3.47 | 117.49 |
| 1974 ............................. | 32.7 | 3.14 | 102.55 | 36.5 | 3.77 | 137.68 | 33.6 | 3.75 | 126.22 |
| 1975 ............................. | 32.4 | 3.36 | 108.63 | 36.5 | 4.06 | 147.89 | 33.5 | 4.02 | 134.73 |
| 1976 ............................. | 32.1 | 3.57 | 114.56 | 36.4 | 4.27 | 155.51 | 33.3 | 4.31 | 143.53 |
| 1977 ........................... | 31.6 | 3.85 | 121.54 | 36.4 | 4.54 | 165.42 | 33.0 | 4.65 | 153.59 |
| 1978 ............................. | 31.0 | 4.20 | 130.14 | 36.4 | 4.89 | 178.03 | 32.8 | 4.99 | 163.89 |
| 1979 ............................ | 30.6 | 4.53 | 138.83 | 36.2 | 5.27 | 190.92 | 32.7 | 5.36 | 175.36 |
| 1980 ............................. | 30.2 | 4.88 | 147.24 | 36.2 | 5.79 | 209.68 | 32.6 | 5.85 | 190.98 |
| 1981 ............................. | 30.1 | 5.25 | 157.99 | 36.3 | 6.31 | 228.73 | 32.6 | 6.41 | 209.16 |
| 1982 .. | 29.9 | 5.48 | 163.83 | 36.2 | 6.78 | 245.68 | 32.6 | 6.92 | 225.87 |
| 1983. | 29.8 | 5.74 | 171.13 | 36.2 | 7.29 | 263.68 | 32.7 | 7.31 | 239.04 |
| 1984 ............................. | 29.8 | 5.85 | 174.47 | 36.5 | 7.63 | 278.04 | 32.6 | 7.59 | 247.25 |
| 1985. | 29.4 | 5.94 | 174.81 | 36.4 | 7.94 | 289.20 | 32.5 | 7.90 | 256.49 |
| 1986 ............................. | 29.2 | 6.03 | 175.80 | 36.4 | 8.36 | 304.49 | 32.5 | 8.18 | 265.93 |
| 1987 ............................. | 29.2 | 6.12 | 178.80 | 36.3 | 8.73 | 316.37 | 32.5 | 8.49 | 276.03 |
| 1988 ............................. | 29.1 | 6.31 | 183.62 | 35.9 | 9.06 | 325.25 | 32.6 | 8.88 | 289.49 |
| 1989 .......................... | 28.9 | 6.53 | 188.72 | 35.8 | 9.54 | 341.53 | 32.6 | 9.39 | 306.11 |
|  | Monthly data, not seasonally adjusted |  |  |  |  |  |  |  |  |
| 1989: |  |  |  |  |  |  |  |  |  |
| August ......................... | 29.6 | \$6.49 | \$192.10 | 35.8 | \$9.47 | \$339.03 | 32.8 | \$9.30 | \$305.04 |
| September .................. | 28.9 | 6.59 | 190.45 | 35.6 | 9.60 | 341.76 | 32.5 | 9.49 | 308.43 |
| October ...................... | 28.9 | 6.61 | 191.03 | 36.1 | 9.70 | 350.17 | 32.8 | 9.58 | 314.22 |
| November ................... | 28.6 | 6.63 | 189.62 | 35.6 | 9.67 | 344.25 | 32.5 | 9.61 | 312.33 |
| December ................... | 29.3 | 6.65 | 194.85 | 35.6 | 9.73 | 346.39 | 32.5 | 9.68 | 314.60 |
| 1990: |  |  |  |  |  |  |  |  |  |
| January ...................... | 28.1 | 6.73 | 189.11 | 35.6 | 9.80 | 348.88 | 32.4 | 9.72 | 314.93 |
| February ...................... | 28.3 | 6.72 | 190.18 | 35.7 | 9.87 | 352.36 | 32.4 | 9.75 | 315.90 |
| March ......................... | 28.5 | 6.74 | 192.09 | 35.6 | 9.84 | 350.30 | 32.4 | 9.76 | 316.22 |
| April ........................... | 29.0 | 6.75 | 195.75 | 36.1 | 9.97 | 359.92 | 32.6 | 9.82 | 320.13 |
| May ........................... | 28.8 | 6.75 | 194.40 | 35.5 | 9.90 | 351.45 | 32.3 | 9.77 | 315.57 |
| June .......................... | 29.3 | 6.75 | 197.78 | 35.8 | 9.90 | 354.42 | 32.7 | 9.75 | 318.83 |
| July ${ }^{\text {¢ }}$.......................... | 29.7 | 6.74 | 200.18 | 36.2 | 10.00 | 362.00 | 33.0 | 9.78 | 322.74 |
| August ${ }^{\text {a }}$..................... | 29.4 | 6.75 | 198.45 | 35.7 | 9.93 | 354.50 | 32.9 | 9.76 | 321.10 |

[^13] and services.
${ }^{p}=$ preliminary.
NOTE: Data in this table have been revised to reflect March 1989 benchmarks and conversion to the 1987 Standard Industrial Classification (SIC) system. See the article in this issue for additional information.

## ESTABLISHMENT DATA <br> HOURS AND EARNINGS <br> NOT SEASONALLY ADJUSTED

## C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolis by detailed industry

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Total private ............................................................ |  | 35.0 | 34.9 | 34.8 | 34.9 | 34.8 | - | - | - | - | - |
| Mining .......................................................................... |  | 43.0 | 43.5 | 44.4 | 43.6 | 44.0 | - | - | - | - | - |
| Metal mining ................................................................ | 10 | 43.9 | 43.3 | 42.9 | 42.9 | - | - | - | - | - | - |
| Iron ores ................................................................... | 101 | 43.0 | 42.5 | 43.0 | 41.9 | - | - | - | - | - | - |
| Copper ores ............................................................. | 102 | 49.1 | 46.9 | 44.9 | 47.2 | - | - | - | - | - | - |
| Coal mining | 12 | 41.6 | 44.0 | 44.1 | 42.1 | - | - | - | - | - | - |
| Bituminous coal and lignite mining .............................. | 122 | 41.4 | 44.0 | 44.1 | 42.2 | - | - | - | - | - | - |
| Oil and gas extraction | 13 | 41.9 | 41.9 | 44.0 | 43.6 | - | - | - | - | - | - |
| Crude petroleum and natural gas ............................... | 131 | 43.0 | 41.6 | 44.9 | 42.4 | - | - | - | - | - | - |
| Oil and gas field services ........................................... | 138 | 41.2 | 42.2 | 43.5 | 44.2 | - | - | - | - | - | - |
| Nonmetallic minerals, except fuels ................................ | 14 | 47.2 | 47.5 | 46.7 | 46.2 | - | - | - | - | - | - |
| Crushed and broken stone ......................................... | 142 | 48.6 | 48.9 | 47.8 | 47.2 | - | - | - | - | - | - |
| Construction ................................................................ |  | 38.9 | 38.9 | 39.1 | 38.3 | 39.0 | - | - | - | - | - |
| General building contractors ......................................... | 15 | 38.0 | 38.2 | 38.3 | 37.8 | - | - | - | - | - | - |
| Residential building construction ................................. | 152 | 37.1 | 37.3 | 37.6 | 37.2 | - | - | - | - | - | - |
| Operative builders .................................................... | 153 | 38.5 | 39.7 | 37.1 | 36.3 | - | - | - | - | - | - |
| Nonresidential building construction ............................ | 154 | 38.9 | 39.0 | 39.0 | 38.5 | - | - | - | - | - | - |
| Heavy construction, except building .............................. | 16 | 43.4 | 43.2 | 43.2 | 42.0 | - | - | - | - | - | - |
| Highway and street construction ................................. | 161 | 45.1 | 45.5 | 44.9 | 43.8 | - | - | - | - | - | - |
| Heavy construction, except highway ........................... | 162 | 42.6 | 42.1 | 42.4 | 41.1 | - | - | - | - | - | - |
| Special trade contractors ............................................. | 17 | 38.1 | 38.0 | 38.2 | 37.5 | - | - | - | - | - | - |
| Plumbing, heating, and air conditioning ....................... | 171 | 39.2 | 39.0 | 39.2 | 39.1 | - | - | - | - | - | - |
| Painting and paper hanging ....................................... | 172 | 36.2 | 36.7 | 36.3 | 35.6 | - | - | - | - | - | - |
| Electrical work ........................................................... | 173 | 39.2 | 39.2 | 39.4 | 39.1 | - | - | - | - | - | - |
| Masonry, stonework, and plastering ............................ | 174 | 35.2 | 35.2 | 35.8 | 34.9 | - | - | - | - | - | - |
| Carpentry and floor work ........................................... | 175 | 35.2 | 35.6 | 35.9 | 35.3 | - | - | - | - | - | - |
| Roofing, siding, and sheet metal work ........................ | 176 | 36.2 | 35.8 | 36.2 | 34.4 | - | - | - | - | - | - |
| Manufacturing ................................................................ |  | 40.6 | 40.9 | 41.1 | 40.5 | 40.9 | 3.7 | 3.8 | 3.8 | 3.6 | 3.9 |
| Durable goods .......................................................... |  | 41.0 | 41.3 | 41.7 | 41.0 | 41.3 | 3.7 | 3.9 | 3.9 | 3.7 | 4.0 |
| Lumber and wood products ........................................ | 24 | 39.6 | 40.4 | 40.8 | 40.0 | 40.6 | 3.6 | 3.7 | 3.7 | 3.6 | - |
| Logging | 241 | 40.6 | 41.9 | 42.4 | 41.3 | - | 5.2 | 5.5 | 5.8 | 5.0 | - |
| Sawmills and planing mills ...................................... | 242 | 39.7 | 41.2 | 41.5 | 40.4 | - | 4.1 | 4.4 | 4.3 | 4.2 | - |
| Sawmills and planing mills, general ........................ | 2421 | 40.1 | 41.5 | 41.9 | 40.8 | - | 4.4 | 4.7 | 4.6 | 4.5 | - |
| Hardwood dimension and flooring mills ................. | 2426 | 38.4 | 40.0 | 40.5 | 39.2 | - | 2.8 | 3.3 | 3.3 | 2.9 | - |
| Millwork, plywood, and structural members ............... | 243 | 39.4 | 39.9 | 40.4 | 39.3 | - | 3.1 | 3.2 | 3.1 | 3.1 | - |
| Milwork ............................................................... | 2431 | 38.9 | 39.3 | 40.0 | 39.1 | - | 2.0 | 2.3 | 2.6 | 2.4 | - |
| Wood kitchen cabinets ......................................... | 2434 | 39.5 | 39.1 | 39.6 | 38.9 | - | 2.9 | 3.0 | 2.8 | 2.9 | - |
| Hardwood veneer and plywood ............................. | 2435 | 38.9 | 40.4 | 41.2 | 39.0 | - | 2.9 | 3.6 | 3.6 | 3.3 | - |
| Sotwood veneer and plywood .............................. | 2436 | 40.7 | 42.5 | 42.1 | 40.4 | - | 5.5 | 5.1 | 4.5 | 4.9 | - |
| Wood containers .................................................... | 244 | 38.8 | 38.6 | 39.7 | 39.4 | - | 3.2 | 3.2 | 3.5 | 3.4 | - |
| Wood buildings and mobile homes ........................... | 245 | 38.5 | 39.2 | 39.2 | 39.5 | - | 2.2 | 2.2 | 2.1 | 2.3 | - |
| Mobile homes ....................................................... | 2451 | 38.0 | 39.1 | 39.2 | 39.4 | - | 1.8 | 1.9 | 1.9 | 2.2 | - |
| Miscellaneous wood products ................................. | 249 | 40.1 | 40.5 | 40.6 | 40.1 | - | 3.2 | 3.2 | 3.1 | 3.3 | - |
| Furniture and fixtures ................................................. | 25 | 38.7 | 39.7 | 39.2 | 38.8 | 39.4 | 2.4 | 2.9 | 2.5 | 2.5 | - |
| Household furniture | 251 | 38.0 | 39.2 | 38.4 | 37.9 | - | 1.8 | 2.5 | 2.2 | 2.0 | - |
| Wood household furniture ..................................... | 2511 | 38.8 | 39.8 | 38.8 | 38.4 | - | 2.2 | 2.7 | 2.2 | 2.1 | - |
| Upholstered household furniture ............................ | 2512 | 36.4 | 37.9 | 37.0 | 36.4 | - | 1.1 | 1.8 | 1.6 | 1.4 | - |
| Metal household furniture ...................................... | 2514 | 38.8 | 39.7 | 39.5 | 41.1 | - | 2.0 | 2.7 | 2.7 | 3.4 | - |
| Mattresses and bedsprings ................................... | 2515 | 39.6 | 40.8 | 40.1 | 38.2 | - | 3.0 | 3.9 | 3.6 | 3.1 | - |
| Office furniture ........................................................ | 252 | 38.7 | 39.6 | 40.6 | 40.1 | - | 2.3 | 2.3 | 2.9 | 3.0 | - |
| Public building and related furniture .......................... | 253 | 39.5 | 41.1 | 40.7 | 40.4 | - | 3.5 | 4.0 | 3.4 | 3.2 | - |
| Partitions and fixtures .............................................. | 254 | 40.9 | 41.3 | 40.6 | 40.6 | - | 4.3 | 4.3 | 3.0 | 3.3 | - |
| Miscellaneous furniture and fixtures ......................... | 259 | 39.6 | 39.8 | 40.0 | 39.9 | - | 2.6 | 3.0 | 2.7 | 3.1 | - |

See footnotes at end of table.

# ESTABLISHMENT DATA <br> HOURS AND EARNINGS <br> NOT SEASONALLY ADJUSTED 

C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolis by detailed industry-Continued

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| Total private ........................................................... |  | \$9.64 | \$9.61 | \$9.98 | \$10.00 | \$9.99 | \$337.40 | \$335.39 | \$347.30 | \$349.00 | \$347.65 |
| Mining ........................................................................... |  | 13.06 | 13.22 | 13.66 | 13.65 | 13.59 | 561.58 | 575.07 | 606.50 | 595.14 | 597.96 |
| Metal mining | 10 | 13.61 | 13.56 | 14.00 | 14.18 | - | 597.48 | 587.15 | 600.60 | 608.32 | - |
| Iron ores | 101 | 14.35 | 14.42 | 14.69 | 14.84 | - | 617.05 | 612.85 | 631.67 | 621.80 | - |
| Copper ores | 102 | 11.72 | 11.77 | 11.83 | 12.28 | - | 575.45 | 552.01 | 531.17 | 579.62 | - |
| Coal mining | 12 | 15.80 | 16.20 | 16.62 | 16.82 | - | 657.28 | 712.80 | 732.94 | 708.12 | - |
| Bituminous coal and lignite mining ... | 122 | 15.90 | 16.33 | 16.77 | 16.97 | - | 658.26 | 718.52 | 739.56 | 716.13 | - |
| Oil and gas extraction | 13 | 12.62 | 12.44 | 12.94 | 12.83 | - | 528.78 | 521.24 | 569.36 | 559.39 | - |
| Crude petroleum and natural gas | 131 | 15.44 | 15.38 | 16.34 | 16.20 | - | 663.92 | 639.81 | 733.67 | 686.88 | - |
| Oil and gas field services ............................................ | 138 | 10.75 | 10.65 | 11.01 | 11.06 | - | 442.90 | 449.43 | 478.94 | 488.85 | - |
| Nonmetalic minerals, except fuels ................................ | 14 | 11.31 | 11.32 | 11.56 | 11.64 | - | 533.83 | 537.70 | 539.85 | 537.77 | - |
| Crushed and broken stone ......................................... | 142 | 10.86 | 10.84 | 11.20 | 11.21 | - | 527.80 | 530.08 | 535.36 | 529.11 | - |
| Construction ............................................................... |  | 13.49 | 13.51 | 13.63 | 13.70 | 13.74 | 524.76 | 525.54 | 532.93 | 524.71 | 535.86 |
| General building contractors | 15 | 12.59 | 12.64 | 12.80 | 12.82 | - | 478.42 | 482.85 | 490.24 | 484.60 | - |
| Residential building construction | 152 | 12.01 | 12.03 | 12.02 | 12.03 | - | 445.57 | 448.72 | 451.95 | 447.52 | - |
| Operative builders ..................................................... | 153 | 12.10 | 11.81 | 12.69 | 12.82 | - | 465.85 | 468.86 | 470.80 | 465.37 | - |
| Nonresidential building construction ............................ | 154 | 13.20 | 13.28 | 13.58 | 13.60 | - | 513.48 | 517.92 | 529.62 | 523.60 | - |
| Heavy construction, except building ............................... | 16 | 13.35 | 13.37 | 13.36 | 13.44 | - | 579.39 | 577.58 | 577.15 | 564.48 | - |
| Highway and street construction ................................. | 161 | 13.06 | 13.12 | 13.22 | 13.29 | - | 589.01 | 596.96 | 593.58 | 582.10 | - |
| Heavy construction, except highway ........................... | 162 | 13.50 | 13.51 | 13.44 | 13.52 | - | 575.10 | 568.77 | 569.86 | 555.67 | - |
| Special trade contractors | 17 | 13.89 | 13.90 | 14.04 | 14.14 | - | 529.21 | 528.20 | 536.33 | 530.25 | - |
| Plumbing, heating, and air conditioning | 171 | 14.16 | 14.13 | 14.33 | 14.39 | - | 555.07 | 551.07 | 561.74 | 562.65 | - |
| Painting and paper hanging. | 172 | 12.98 | 12.90 | 12.86 | 12.94 | - | 469.88 | 473.43 | 466.82 | 460.66 | - |
| Electrical work ......... | 173 | 14.91 | 14.78 | 14.97 | 15.03 | - | 584.47 | 579.38 | 589.82 | 587.67 | - |
| Masonry, stonework, and plastering | 174 | 13.97 | 14.04 | 14.26 | 14.20 | - | 491.74 | 494.21 | 510.51 | 495.58 | - |
| Carpentry and floor work | 175 | 13.86 | 13.91 | 13.93 | 14.09 | - | 487.87 | 495.20 | 500.09 | 497.38 | - |
| Roofing, siding, and sheet metal work ......................... | 176 | 12.17 | 12.24 | 12.05 | 12.33 | - | 440.55 | 438.19 | 436.21 | 424.15 | - |
| Manufacturing .............................................................. |  | 10.49 | 10.46 | 10.85 | 10.88 | 10.84 | 425.89 | 427.81 | 445.94 | 440.64 | 443.36 |
| Durable goods ........................................................... |  | 11.00 | 10.99 | 11.37 | 11.38 | 11.38 | 451.00 | 453.89 | 474.13 | 466.58 | 469.99 |
| Lumber and wood products ........................................ | 24 | 8.90 | 8.90 | 9.09 | 9.17 | 9.16 | 352.44 | 359.56 | 370.87 | 366.80 | 371.90 |
| Logging | 241 | 11.36 | 11.40 | 11.41 | 11.62 | - | 461.22 | 477.66 | 483.78 | 479.91 | - |
| Sawmills and planing mills | 242 | 9.12 | 9.03 | 9.16 | 9.20 | - | 362.06 | 372.04 | 380.14 | 371.68 | - |
| Sawmills and planing mills, general ........................ | 2421 | 9.47 | 9.38 | 9.51 | 9.54 | - | 379.75 | 389.27 | 398.47 | 389.23 | - |
| Hardwood dimension and flooring mills .................. | 2426 | 7.35 | 7.35 | 7.51 | 7.61 | - | 282.24 | 294.00 | 304.16 | 298.31 | - |
| Millwork, plywood, and structural members ................ | 243 | 8.71 | 8.75 | 9.01 | 9.09 | - | 343.17 | 349.13 | 364.00 | 357.24 | - |
| Millwork ..... | 2431 | 8.86 | 8.91 | 9.28 | 9.35 | - | 344.65 | 350.16 | 371.20 | 365.59 | - |
| Wood kitchen cabinets | 2434 | 8.02 | 8.22 | 8.48 | 8.54 | - | 316.79 | 321.40 | 335.81 | 332.21 | - |
| Hardwood veneer and plywood | 2435 | 7.29 | 7.42 | 7.67 | 7.73 | - | 283.58 | 299.77 | 316.00 | 301.47 | - |
| Softwood veneer and plywood .............................. | 2436 | 10.42 | 10.18 | 10.20 | 10.44 | - | 424.09 | 432.65 | 429.42 | 421.78 | - |
| Wood containers | 244 | 6.43 | 6.43 | 6.62 | 6.61 | - | 249.48 | 248.20 | 262.81 | 260.43 | - |
| Wood buildings and mobile homes ........................... | 245 | 8.26 | 8.30 | 8.62 | 8.60 | - | 318.01 | 325.36 | 337.90 | 339.70 | - |
| Mobile homes ......................... | 2451 | 8.30 | 8.36 | 8.70 | 8.67 | - | 315.40 | 326.88 | 341.04 | 341.60 | - |
| Miscellaneous wood products ................................. | 249 | 7.97 | 7.93 | 8.20 | 8.29 | - | 319.60 | 321.17 | 332.92 | 332.43 | - |
| Furniture and fixtures .................................................. | 25 | 8.26 | 8.30 | 8.52 | 8.52 | 8.58 | 319.66 | 329.51 | 333.98 | 330.58 | 338.05 |
| Household furniture ................................................. | 251 | 7.57 | 7.67 | 7.87 | 7.85 | - | 287.66 | 300.66 | 302.21 | 297.52 | - |
| Wood household furniture ..................................... | 2511 | 7.16 | 7.20 | 7.38 | 7.39 | - | 277.81 | 286.56 | 286.34 | 283.78 | - |
| Upholstered household furniture ............................ | 2512 | 8.15 | 8.33 | 8.51 | 8.47 | - | 296.66 | 315.71 | 314.87 | 308.31 | - |
| Metal household furniture ...................................... | 2514 | 7.97 | 8.04 | 7.95 | 8.14 | - | 309.24 | 319.19 | 314.03 | 334.55 | - |
| Mattresses and bedsprings .................................... | 2515 | 7.91 | 8.07 | 8.29 | 8.13 | - | 313.24 | 329.26 | 332.43 | 310.57 | - |
| Office furniture | 252 | 9.42 | 9.34 | 9.63 | 9.58 | - | 364.55 | 369.86 | 390.98 | 384.16 | - |
| Public building and related furniture .......................... | 253 | 8.64 | 8.74 | 9.08 | 9.05 | - | 341.28 | 359.21 | 369.56 | 365.62 | - |
| Partitions and fixtures ............................................. | 254 | 9.66 | 9.60 | 9.72 | 9.73 | - | 395.09 | 396.48 | 394.63 | 395.04 | - |
| Miscellaneous furniture and fixtures ......................... | 259 | 8.58 | 8.57 | 8.83 | 8.80 | - | 339.77 | 341.09 | 353.20 | 351.12 | - |

See footnotes at end of table.

## C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Stone, clay, and glass products | 32 | 42.7 | 42.9 | 42.7 | 42.1 | 42.7 | 5.4 | 5.6 | 5.4 | 5.0 | - |
| Flat glass. | 321 | 44.7 | 43.7 | 46.0 | 44.3 | - | 4.4 | 4.8 | 7.0 | 5.1 | - |
| Glass and glassware, pressed or blown .................... | 322 | 41.4 | 41.8 | 41.5 | 41.6 | - | 4.7 | 4.9 | 4.4 | 4.6 | - |
| Glass containers ................................................... | 3221 | 41.7 | 42.0 | 41.8 | 42.1 | - | 5.8 | 6.0 | 5.3 | 5.6 | - |
| Pressed and blown glass, nec | 3229 | 41.0 | 41.6 | 41.2 | 41.0 | - | 3.4 | 3.7 | 3.4 | 3.4 | - |
| Products of purchased glass ..... | 323 | 41.5 | 41.3 | 40.9 | 39.8 | - | 3.6 | 3.3 | 3.6 | 2.7 | - |
| Cement, hydraulic. | 324 | 41.0 | 41.7 | 41.5 | 41.6 | - | 2.9 | 3.6 | 3.7 | 4.0 | - |
| Structural clay products | 325 | 41.2 | 41.6 | 41.1 | 41.2 | - | 3.8 | 3.8 | 3.9 | 4.1 | - |
| Pottery and related products | 326 | 39.7 | 40.6 | 39.3 | 38.6 | - | 2.8 | 3.3 | 2.5 | 2.4 | - |
| Concrete, gypsum, and plaster products ................... | 327 | 44.6 | 44.8 | 44.7 | 43.7 | - | 7.6 | 7.9 | 7.3 | 6.7 | - |
| Concrete block and brick ...................................... | 3271 | 44.2 | 44.9 | 46.0 | 44.9 | - | 7.3 | 7.6 | 7.7 | 7.2 | - |
| Concrete products, nec | 3272 | 44.1 | 44.5 | 43.5 | 43.3 | - | 6.7 | 6.8 | 6.0 | 6.0 | - |
| Ready-mixed concrete | 3273 | 44.6 | 44.7 | 44.8 | 43.4 | - | 8.2 | 8.4 | 7.8 | 6.9 | - |
| Misc. nonmetallic mineral products ........................... | 329 | 42.4 | 42.7 | 42.8 | 42.1 | - | 5.2 | 5.3 | 5.2 | 4.7 | - |
| Abrasive products ........................ | 3291 | 42.7 | 42.9 | 42.5 | 41.8 | - | 3.5 | 3.3 | 3.4 | 2.9 | - |
| Asbestos products ................................................ | 3292 | 40.7 | 41.7 | 41.2 | 39.8 | - | 3.5 | 4.8 | 5.1 | 4.2 | - |
| Primary metal industries | 33 | 42.6 | 42.4 | 43.2 | 42.8 | 42.5 | 5.0 | 5.1 | 5.5 | 5.3 | - |
| Blast furnaces and basic steel products .................... | 331 | 43.2 | 43.0 | 43.8 | 44.1 | 43.3 | 5.3 | 5.5 | 5.9 | 6.2 | - |
| Blast furnaces and steel mills ................................ | 3312 | 43.5 | 43.3 | 44.0 | 44.7 | - | 5.6 | 5.6 | 6.1 | 6.6 | - |
| Steel pipe and tubes | 3317 | 40.7 | 41.3 | 44.0 | 42.7 | - | 3.5 | 5.4 | 6.1 | 5.4 | - |
| Iron and steel foundries | 332 | 42.0 | 41.5 | 43.1 | 41.7 | - | 4.5 | 4.4 | 5.5 | 4.7 | - |
| Gray and ductile iron foundries .............................. | 3321 | 42.3 | 41.6 | 43.8 | 41.6 | - | 4.7 | 4.5 | 6.1 | 4.5 | - |
| Malleable iron foundries ....................................... | 3322 | 41.0 | 40.2 | 43.7 | 45.3 | - | 3.1 | 3.0 | 6.3 | 7.2 | - |
| Steel foundries, nec | 3325 | 41.2 | 41.1 | 42.1 | 41.4 | - | 4.3 | 4.4 | 4.6 | 4.8 | - |
| Primary nonferrous metals | 333 | 43.0 | 43.1 | 43.2 | 43.5 | - | 4.9 | 4.9 | 4.8 | 5.2 | - |
| Primary aluminum ........... | 3334 | 42.5 | 42.7 | 42.9 | 43.0 | - | 5.0 | 4.9 | 5.2 | 5.3 | - |
| Nonferrous rolling and drawing ................................ | 335 | 43.4 | 43.3 | 43.6 | 43.1 | - | 5.9 | 6.2 | 6.2 | 5.9 | - |
| Copper rolling and drawing. | 3351 | 43.3 | 44.4 | 43.1 | 43.6 | - | 5.7 | 6.3 | 5.9 | 5.9 | - |
| Aluminum sheet, plate, and foil | 3353 | 45.6 | 42.7 | 44.3 | 44.0 | - | 8.1 | 7.4 | 8.1 | 7.8 | - |
| Nonferrous wire drawing and insulating .................. | 3357 | 41.9 | 42.5 | 42.8 | 41.9 | - | 5.1 | 5.6 | 5.5 | 5.3 | - |
| Nonferrous foundries (castings) | 336 | 40.0 | 40.3 | 40.9 | 39.8 | - | 2.9 | 3.0 | 3.4 | 2.8 | - |
| Aluminum founderies | 3365 | 40.2 | 40.8 | 41.7 | 41.1 | - | 3.2 | 3.4 | 3.7 | 2.8 | - |
| Fabricated metal products | 34 | 40.7 | 41.2 | 41.8 | 41.0 | 41.3 | 3.5 | 3.7 | 3.9 | 3.7 | - |
| Metal cans and shipping containers ......................... | 341 | 44.6 | 44.1 | 44.5 | 44.5 | - | 6.3 | 6.0 | 5.8 | 5.8 | - |
| Metal cans ............. | 3411 | 44.8 | 44.1 | 44.6 | 45.1 | - | 6.3 | 5.9 | 5.8 | 6.0 | - |
| Cutlery, handtools, and hardware | 342 | 39.7 | 40.9 | 41.3 | 40.1 | - | 2.7 | 3.1 | 3.2 | 2.9 | - |
| Hand and edge tools, and blades and handsaws .. | 3423,5 | 39.8 | 40.6 | 41.0 | 39.7 | - | 2.5 | 2.7 | 2.8 | 2.6 | - |
| Hardware, nec | 3429 | 39.2 | 40.6 | 41.1 | 40.0 | - | 2.7 | 3.0 | 3.3 | 2.9 | - |
| Plumbing and heating, except electric ...................... | 343 | 39.9 | 40.6 | 40.7 | 39.6 | - | 3.0 | 3.1 | 3.1 | 2.9 | - |
| Plumbing fixture fittings and trim ............................ | 3432 | 39.9 | 40.0 | 40.2 | 38.8 | - | 2.8 | 2.5 | 2.9 | 2.1 | - |
| Heating equipment, except electric ......................... | 3433 | 39.9 | 41.1 | 39.8 | 39.3 | - | 2.8 | 3.5 | 2.3 | 2.8 | - |
| Fabricated structural metal products ......................... | 344 | 41.0 | 41.2 | 41.2 | 41.2 | - | 3.7 | 3.8 | 3.7 | 4.0 | - |
| Fabricated structural metal .................................... | 3441 | 42.0 | 42.4 | 42.3 | 42.7 | - | 4.5 | 4.7 | 4.4 | 5.0 | - |
| Metal doors, sash, and trim | 3442 | 39.5 | 39.6 | 39.8 | 40.2 | - | 2.5 | 2.6 | 2.5 | 2.9 | - |
| Fabricated plate work (boiler shops) | 3443 | 41.3 | 42.0 | 42.2 | 41.8 | - | 4.1 | 4.1 | 4.5 | 4.4 | - |
| Sheet metal work ............................ | 3444 | 40.5 | 40.3 | 40.8 | 40.9 | - | 3.2 | 3.3 | 3.4 | 3.7 | - |
| Architectural metal work | 3446 | 41.0 | 41.3 | 39.1 | 38.1 | - | 4.6 | 4.8 | 3.3 | 3.1 | - |
| Screw machine products, bolts, etc | 345 | 41.3 | 41.6 | 42.5 | 41.7 | - | 4.3 | 4.4 | 4.7 | 4.6 | - |
| Screw machine products | 3451 | 40.7 | 40.5 | 41.0 | 40.8 | - | 3.5 | 3.6 | 3.5 | 3.4 | - |
| Bolts, nuts, rivets, and washers .............................. | 3452 | 41.8 | 42.8 | 44.0 | 42.7 | - | 5.2 | 5.3 | 6.0 | 5.8 | - |
| Metal forgings and stampings | 346 | 40.4 | 41.2 | 42.8 | 40.7 | - | 3.3 | 3.7 | 4.7 | 3.5 | - |
| Iron and steel forgings | 3462 | 41.4 | 42.0 | 43.1 | 42.2 | - | 4.1 | 4.4 | 4.8 | 4.5 | - |
| Automotive stampings | 3465 | 40.1 | 41.5 | 44.1 | 40.4 | - | 3.2 | 3.8 | 5.4 | 3.4 | - |
| Metal stampings, nec ............................................ | 3469 | 39.9 | 40.3 | 40.9 | 40.5 | - | 2.9 | 3.3 | 3.6 | 3.0 | - |
| Metal services, nec | 347 | 39.9 | 40.5 | 41.3 | 40.9 | - | 3.2 | 3.4 | 3.9 | 3.6 | - |
| Plating and polishing ............................................. | 3471 | 39.4 | 39.9 | 40.7 | 40.3 | - | 2.9 | 2.9 | 3.3 | 3.0 | - |
| Metal coating and allied services ........................... | 3479 | 40.9 | 41.6 | 42.4 | 41.9 | - | 3.7 | 4.3 | 5.0 | 4.7 | - |
| Ordnance and accessories, nec ............................... | 348 | 40.9 | 40.7 | 41.2 | 39.9 | - | 2.9 | 3.2 | 3.3 | 2.9 | - |
| Ammunition, except for small arms, nec ................. | 3483 | 40.4 | 39.6 | 40.1 | 38.7 | - | 2.9 | 3.0 | 2.8 | 2.5 | - |
| Misc. fabricated metal products ................................ | 349 | 40.5 | 40.9 | 41.6 | 40.6 | - | 3.2 | 3.2 | 3.4 | 3.3 | - |
| Valves and pipe fittings, nec .................................. | 3494 | 40.8 | 40.9 | 43.2 | 42.9 | - | 2.9 | 3.1 | 3.5 | 3.4 | - |
| Misc. fabricated wire products ............................... | 3496 | 39.0 | 40.1 | 40.7 | 40.0 | - | 2.7 | 3.2 | 3.0 | 3.2 | - |

See footnotes at end of table.

# ESTABLISHMENT DATA HOURS AND EARNINGS NOT SEASONALLY ADJUSTED 

C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed
industry-Continued industry-Continued

| Industr:' | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{gathered} \text { Aug. } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { Aug. } \\ 1990^{\circ} \end{gathered}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Stone, clay, and glass products | 32 | \$10.84 | \$10.85 | \$11.17 | \$11.20 | \$11.19 | \$462.87 | \$465.47 | \$476.96 | \$471.52 | \$477.81 |
| Flat glass. | 321 | 14.87 | 14.65 | 15.37 | 14.97 | - | 664.69 | 640.21 | 707.02 | 663.17 | - |
| Glass and glassware, pressed or blown | 322 | 12.13 | 12.12 | 12.42 | 12.59 | - | 502.18 | 506.62 | 515.43 | 523.74 | - |
| Glass containers | 3221 | 12.75 | 12.77 | 13.14 | 13.37 | - | 531.68 | 536.34 | 549.25 | 562.88 | - |
| Pressed and blown glass, nec | 3229 | 11.43 | 11.40 | 11.61 | 11.70 | - | 468.63 | 474.24 | 478.33 | 479.70 | - |
| Products of purchased glass | 323 | 9.43 | 9.37 | 9.89 | 9.78 | - | 391.35 | 386.98 | 404.50 | 389.24 | - |
| Cement, hydraulic | 324 | 13.57 | 13.65 | 13.59 | 13.76 | - | 556.37 | 569.21 | 563.99 | 572.42 | - |
| Structural clay products | 325 | 9.17 | 9.11 | 9.55 | 9.58 | - | 377.80 | 378.98 | 392.51 | 394.70 | - |
| Pottery and related products | 326 | 9.41 | 9.45 | 9.64 | 9.68 | - | 373.58 | 383.67 | 378.85 | 373.65 | - |
| Concrete, gypsum, and plaster products | 327 | 10.58 | 10.63 | 10.87 | 10.86 | - | 471.87 | 476.22 | 485.89 | 474.58 | - |
| Concrete block and brick | 3271 | 9.65 | 9.63 | 9.76 | 9.74 | - | 426.53 | 432.39 | 448.96 | 437.33 | - |
| Concrete products, nec | 3272 | 9.60 | 9.54 | 9.77 | 9.82 | - | 423.36 | 424.53 | 425.00 | 425.21 | - |
| Ready-mixed concrete | 3273 | 11.34 | 11.47 | 11.70 | 11.68 | - | 505.76 | 512.71 | 524.16 | 506.91 | - |
| Misc. nonmetallic mineral products | 329 | 11.34 | 11.34 | 11.60 | 11.65 | - | 480.82 | 484.22 | 496.48 | 490.47 | - |
| Abrasive products. | 3291 | 10.12 | 10.09 | 10.24 | 10.22 | - | 432.12 | 432.86 | 435.20 | 427.20 | - |
| Asbestos products | 3292 | 11.02 | 11.23 | 11.21 | 11.15 | - | 448.51 | 468.29 | 461.85 | 443.77 | - |
| Primary metal industries | 33 | 12.46 | 12.42 | 12.90 | 13.03 | 12.91 | 530.80 | 526.61 | 557.28 | 557.68 | 548.68 |
| Blast furnaces and basic steel products | 331 | 14.35 | 14.29 | 14.74 | 14.92 | 14.76 | 619.92 | 614.47 | 645.61 | 657.97 | 639.11 |
| Blast furnaces and steel mills | 3312 | 15.12 | 15.01 | 15.52 | 15.69 | - | 657.72 | 649.93 | 682.88 | 701.34 | - |
| Steel pipe and tubes | 3317 | 11.09 | 11.31 | 11.85 | 11.89 | - | 451.36 | 467.10 | 521.40 | 507.70 | - |
| Iron and steel foundries | 332 | 11.07 | 11.04 | 11.69 | 11.58 | - | 464.94 | 458.16 | 503.84 | 482.89 | - |
| Gray and ductile iron foundries | 3321 | 11.60 | 11.51 | 12.19 | 11.96 | - | 490.68 | 478.82 | 533.92 | 497.54 | - |
| Maileable iron foundries | 3322 | 12.01 | 11.96 | 12.59 | 12.97 | - | 492.41 | 480.79 | 550.18 | 587.54 | - |
| Steel foundries, nec | 3325 | 10.34 | 10.43 | 11.00 | 11.09 | - | 426.01 | 428.67 | 463.10 | 459.13 | - |
| Primary nonferrous metals | 333 | 13.68 | 13.67 | 14.31 | 14.49 | - | 588.24 | 589.18 | 618.19 | 630.32 | - |
| Primary aluminum | 3334 | 14.00 | 13.88 | 14.73 | 14.79 | - | 595.00 | 592.68 | 631.92 | 635.97 | - |
| Nonferrous rolling and drawing | 335 | 11.83 | 11.89 | 12.33 | 12.38 | - | 513.42 | 514.84 | 537.59 | 533.58 | - |
| Copper rolling and drawing | 3351 | 11.26 | 11.12 | 11.76 | 11.71 | - | 487.56 | 493.73 | 506.86 | 510.56 | - |
| Aluminum sheet, plate, and foil | 3353 | 14.22 | 14.33 | 15.14 | 15.10 | - | 648.43 | 611.89 | 670.70 | 664.40 | - |
| Nonferrous wire drawing and insulating .................. | 3357 | 11.98 | 12.09 | 12.24 | 12.39 | - | 501.96 | 513.83 | 523.87 | 519.14 | - |
| Nonferrous foundries (castings) ................................ | 336 | 9.87 | 9.80 | 10.27 | 10.39 | - | 394.80 | 394.94 | 420.04 | 413.52 | - |
| Aluminum founderies | 3365 | 9.49 | 9.31 | 9.87 | 9.95 | - | 381.50 | 379.85 | 411.58 | 408.95 | - |
| Fabricated metal products | 34 | 10.57 | 10.54 | 10.85 | 10.86 | 10.87 | 430.20 | 434.25 | 453.53 | 445.26 | 448.93 |
| Metal cans and shipping containers | 341 | 14.05 | 13.91 | 14.30 | 14.39 | - | 626.63 | 613.43 | 636.35 | 640.36 | - |
| Metal cans | 3411 | 14.93 | 14.78 | 15.17 | 15.23 | - | 668.86 | 651.80 | 676.58 | 686.87 | - |
| Cutlery, handtools, and hardware ............................. | 342 | 10.44 | 10.42 | 10.88 | 10.83 | - | 414.47 | 426.18 | 449.34 | 434.28 | - |
| Hand and edge toois, and blades and handsaws ... | 3423,5 | 9.63 | 9.64 | 10.05 | 10.00 | - | 383.27 | 391.38 | 412.05 | 397.00 | - |
| Hardware, nec | 3429 | 10.81 | 10.78 | 11.27 | 11.18 | - | 423.75 | 437.67 | 463.20 | 447.20 | - |
| Plumbing and heating, except electric | 343 | 9.48 | 9.37 | 9.72 | 9.68 | - | 378.25 | 380.42 | 395.60 | 383.33 | - |
| Plumbing fixture fittings and trim ..... | 3432 | 9.03 | 8.99 | 9.19 | 9.15 | - | 360.30 | 359.60 | 369.44 | 355.02 | - |
| Heating equipment, except electric | 3433 | 9.30 | 9.38 | 9.65 | 9.55 | - | 371.07 | 385.52 | 384.07 | 375.32 | - |
| Fabricated structural metal products | 344 | 9.95 | 9.95 | 10.13 | 10.19 | - | 407.95 | 409.94 | 417.36 | 419.83 | - |
| Fabricated structural metal | 3441 | 10.44 | 10.46 | 10.36 | 10.36 | - | 438.48 | 443.50 | 438.23 | 442.37 | - |
| Metal doors, sash, and trim .................................. | 3442 | 8.23 | 8.23 | 8.49 | 8.57 | - | 325.09 | 325.91 | 337.90 | 344.51 | - |
| Fabricated plate work (boiler shops) | 3443 | 10.60 | 10.70 | 11.01 | 10.99 | - | 437.78 | 449.40 | 464.62 | 459.38 | - |
| Sheet metal work .......... | 3444 | 10.39 | 10.31 | 10.45 | 10.61 | - | 420.80 | 415.49 | 426.36 | 433.95 | - |
| Architectural metal work | 3446 | 9.33 | 9.29 | 9.73 | 9.85 | - | 382.53 | 383.68 | 380.44 | 375.29 | - |
| Screw machine products, bolts, etc | 345 | 10.30 | 10.31 | 10.70 | 10.78 | - | 425.39 | 428.90 | 454.75 | 449.53 | - |
| Screw machine products ............. | 3451 | 9.70 | 9.74 | 10.06 | 10.15 | - | 394.79 | 394.47 | 412.46 | 414.12 | - |
| Bolts, nuts, rivets, and washers | 3452 | 10.91 | 10.87 | 11.32 | 11.43 | - | 456.04 | 465.24 | 498.08 | 488.06 | - |
| Metal forgings and stampings | 346 | 12.49 | 12.40 | 12.87 | 12.70 | - | 504.60 | 510.88 | 550.84 | 516.89 | - |
| Iron and steel forgings | 3462 | 13.33 | 13.20 | 13.08 | 13.12 | - | 551.86 | 554.40 | 563.75 | 553.66 | - |
| Automotive stampings | 3465 | 14.17 | 13.91 | 14.60 | 14.37 | - | 568.22 | 577.27 | 643.86 | 580.55 | - |
| Metal stampings, nec | 3469 | 9.68 | 9.86 | 10.07 | 10.12 | - | 386.23 | 397.36 | 411.86 | 409.86 | - |
| Metal services, nec | 347 | 8.54 | 8.54 | 8.97 | 9.04 | - | 340.75 | 345.87 | 370.46 | 369.74 | - |
| Plating and polishing . | 3471 | 8.51 | 8.48 | 8.90 | 8.97 | - | 335.29 | 338.35 | 362.23 | 361.49 | - |
| Metal coating and allied services | 3479 | 8.58 | 8.66 | 9.09 | 9.17 | - | 350.92 | 360.26 | 385.42 | 384.22 | - |
| Ordnance and accessories, nec. | 348 | 11.60 | 11.77 | 11.88 | 11.88 | - | 474.44 | 479.04 | 489.46 | 474.01 | - |
| Ammunition, except for small arms, nec ................. | 3483 | 11.41 | 11.60 | 11.48 | 11.67 | - | 460.96 | 459.36 | 460.35 | 451.63 | - |
| Misc. fabricated metal products. | 349 | 9.98 | 9.97 | 10.09 | 10.21 | - | 404.19 | 407.77 | 419.74 | 414.53 | - |
| Valves and pipe fittings, nec .................................. | 3494 | 10.51 | 10.52 | 10.29 | 10.41 | - | 428.81 | 430.27 | 444.53 | 446.59 | - |
| Misc. fabricated wire products ............................... | 3496 | 8.59 | 8.44 | 8.71 | 8.76 | - | 335.01 | 338.44 | 354.50 | 350.40 | - |

See footnotes at end of table.

## C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ | July 1989 | Aug. <br> 1989 | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\mathrm{p}} \end{aligned}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Industrial machinery and equipment ............................ | 35 | 42.0 | 41.8 | 42.1 | 41.7 | 41.5 | 4.1 | 4.0 | 4.0 | 3.8 | - |
| Engines and turbines .............................................. | 351 | 43.2 | 41.7 | 42.0 | 43.0 | - | 3.6 | 3.7 | 3.5 | 3.2 | - |
| Turbines and turbine generator sets ...................... | 3511 | 41.1 | 43.0 | 43.6 | 42.8 | - | 5.2 | 5.8 | 5.6 | 5.6 | - |
| Internal combustion engines, nec .... | 3519 | 43.9 | 41.3 | 41.4 | 43.1 | - | 3.1 | 3.0 | 2.7 | 2.3 | - |
| Farm and garden machinery .................................... | 352 | 40.6 | 40.3 | 41.4 | 40.2 | - | 3.7 | 3.4 | 3.5 | 3.2 | - |
| Farm machinery and equipment ............................. | 3523 | 41.5 | 41.0 | 41.6 | 41.0 | - | 4.4 | 3.8 | 3.8 | 4.0 | - |
| Construction and related machinery | 353 | 42.1 | 42.0 | 42.9 | 42.4 | - | 3.8 | 4.1 | 4.1 | 3.8 | - |
| Construction machinery ........................................ | 3531 | 42.4 | 42.0 | 42.3 | 41.5 | - | 3.7 | 4.4 | 3.4 | 2.5 | - |
| Mining machinery .................................................. | 3532 | 41.0 | 41.1 | 42.2 | 41.2 | - | 4.0 | 3.8 | 4.3 | 4.0 | - |
| Oil and gas field machinery | 3533 | 41.5 | 41.9 | 46.2 | 46.4 | - | 3.5 | 4.0 | 6.3 | 6.6 | - |
| Conveyors and conveying equipment | 3535 | 43.9 | 43.2 | 42.5 | 42.5 | - | 5.4 | 5.1 | 4.7 | 4.6 | - |
| Industrial trucks and tractors ................................. | 3537 | 40.1 | 41.1 | 40.0 | 38.9 | - | 2.4 | 3.1 | 2.2 | 1.9 | - |
| Metalworking machinery .......................................... | 354 | 42.9 | 42.7 | 42.6 | 42.4 | - | 5.0 | 4.8 | 4.6 | 4.7 | - |
| Machine tools, metal cutting types | 3541 | 42.9 | 43.0 | 41.7 | 40.8 | - | 4.9 | 4.9 | 3.8 | 3.4 | - |
| Machine tools, metal forming types ....................... | 3542 | 43.8 | 43.3 | 43.0 | 42.8 | - | 5.4 | 5.2 | 4.4 | 4.6 | - |
| Special dies, tools, jigs, and fixtures ....................... | 3544 | 43.6 | 43.5 | 43.2 | 43.5 | - | 5.8 | 5.6 | 5.4 | 5.7 | - |
| Machine tool accessories ................ | 3545 | 41.6 | 40.5 | 41.5 | 40.7 | - | 4.3 | 3.9 | 3.4 | 3.4 | - |
| Power driven handtools | 3546 | 42.5 | 42.4 | 41.7 | 41.5 | - | 3.5 | 3.6 | 3.7 | 3.5 | - |
| Special industry machinery ........................................ | 355 | 41.4 | 41.6 | 42.3 | 41.0 | - | 4.3 | 4.5 | 4.2 | 3.5 | - |
| Textile machinery ............. | 3552 | 42.2 | 42.2 | 42.8 | 42.0 | - | 3.8 | 3.7 | 4.0 | 3.3 | - |
| Printing trades machinery | 3555 | 37.1 | 37.4 | 39.3 | 38.1 | - | 4.0 | 4.7 | 3.8 | 3.0 | - |
| Food products machinery ........................................ | 3556 | 41.8 | 42.4 | 41.7 | 40.3 | - | 4.3 | 4.7 | 3.7 | 3.4 | - |
| General industrial machinery .................................... | 356 | 41.5 | 41.4 | 42.2 | 41.5 | - | 4.3 | 4.0 | 4.2 | 4.0 | - |
| Pumps and pumping equipment | 3561 | 39.1 | 39.7 | 41.4 | 40.2 | - | 2.4 | 2.7 | 3.8 | 3.3 | - |
| Ball and roller bearings ......................................... | 3562 | 42.8 | 42.6 | 43.4 | 42.8 | - | 5.7 | 5.4 | 5.7 | 5.5 | - |
| Air and gas compressors | 3563 | 42.0 | 42.3 | 43.6 | 43.2 | - | 4.3 | 4.4 | 4.1 | 4.2 | - |
| Blowers and fans | 3564 | 40.7 | 40.6 | 40.2 | 39.4 | - | 3.4 | 3.4 | 3.4 | 3.3 | - |
| Speed changers, drives, and gears ........................ | 3566 | 41.1 | 41.1 | 42.0 | 41.7 | - | 4.4 | 4.4 | 5.1 | 4.6 | - |
| Power transmission equipment, nec ....................... | 3568 | 41.7 | 41.1 | 41.8 | 40.8 | - | 4.9 | 4.2 | 4.4 | 3.7 | - |
| Computer and office equipment ................................ | 357 | 41.8 | 42.0 | 42.2 | 42.1 | - | 2.6 | 3.1 | 3.1 | 2.6 | - |
| Electronic computers ............................................ | 3571 | 41.4 | 42.1 | 42.0 | 41.2 | - | 2.8 | 3.3 | 3.0 | 2.7 | - |
| Computer terminals, calculators, and office machines, nec $\qquad$ | 3575,8,9 | 40.9 | 41.5 | 40.3 | 40.5 | - | 1.9 | 2.3 | 2.8 | 1.9 | - |
| Refrigeration and service machinery ........................ | 358 | 41.6 | 40.9 | 40.7 | 39.8 | - | 4.0 | 3.1 | 2.9 | 2.9 | - |
| Refrigeration and heating equipment ...................... | 3585 | 42.4 | 41.2 | 40.9 | 40.5 | - | 4.6 | 3.4 | 3.1 | 3.3 | - |
| Misc. industrial and commercial machinery ................ | 359 | 42.3 | 42.2 | 42.2 | 41.8 | - | 4.5 | 4.4 | 4.5 | 4.4 | - |
| Carburetors, pistons, rings, valves ......................... | 3592 | 40.5 | 42.3 | 42.1 | 40.8 | - | 4.0 | 3.5 | 4.6 | 4.0 | - |
| Scales, balances, and industrial machinery, nec ..... | 3596,9 | 42.1 | 42.0 | 42.0 | 41.6 | - | 4.5 | 4.4 | 4.4 | 4.5 | - |
| Electronic and other electrical equipment ................... | 36 | 40.2 | 40.8 | 41.0 | 40.2 | 40.6 | 3.0 | 3.2 | 3.2 | 3.0 | - |
| Electric distribution equipment .................................. | 361 | 40.9 | 41.3 | 41.3 | 40.9 | - | 2.8 | 2.8 | 2.9 | 3.2 | - |
| Transformers, except electronic ............................. | 3612 | 40.8 | 41.6 | 41.7 | 41.5 | - | 2.7 | 2.9 | 3.4 | 3.7 | - |
| Switchgear and switchboard apparatus ................... | 3613 | 41.0 | 41.0 | 40.9 | 40.3 | - | 2.9 | 2.8 | 2.3 | 2.7 | - |
| Electrical industrial apparatus ................................... | 362 | 41.5 | 41.1 | 42.3 | 41.6 | - | 3.7 | 3.0 | 3.7 | 3.2 | - |
| Motors and generators ......................................... | 3621 | 41.6 | 41.1 | 42.2 | 40.9 | - | 4.3 | 3.2 | 3.9 | 3.2 | - |
| Relays and industrial controls ................................. | 3625 | 41.1 | 40.8 | 42.2 | 42.3 | - | 2.8 | 2.4 | 3.1 | 3.0 | - |
| Household appliances ............................................ | 363 | 39.6 | 39.8 | 40.2 | 39.7 | - | 2.9 | 3.0 | 2.6 | 2.4 | - |
| Household refrigerators and freezers ...................... | 3632 | 38.1 | 38.5 | 38.8 | 39.5 | - | 3.8 | 3.0 | 2.8 | 2.8 | - |
| Household laundry equipment ................................ | 3633 | 41.0 | 40.6 | 41.0 | 39.8 | - | 2.4 | 2.5 | 3.4 | 3.4 | - |
| Electric housewares and fans ................................ | 3634 | 39.8 | 41.1 | 41.4 | 39.9 | - | 2.9 | 3.6 | 2.2 | 1.9 | - |
| Electric lighting and wiring equipment ......................... | 364 | 39.0 | 40.0 | 40.5 | 39.3 | - | 2.5 | 2.8 | 2.9 | 2.5 | - |
| Electric lamps ....................................................... | 3641 | 38.9 | 39.9 | 40.8 | 39.6 | - | 2.1 | 2.3 | 3.0 | 2.3 | - |
| Current-carrying wiring devices ............................... | 3643 | 39.5 | 39.3 | 40.0 | 39.5 | - | 3.2 | 2.8 | 2.8 | 2.9 | - |
| Noncurrent-carrying wiring devices ........................ | 3644 | 38.9 | 41.7 | 40.1 | 39.3 | - | 2.5 | 3.3 | 2.1 | 1.8 | - |
| Residential lighting fixtures .................................... | 3645 | 36.3 | 38.3 | 38.3 | 37.0 | - | 1.3 | 2.4 | 2.3 | 2.0 | - |
| Household audio and video equipment | 365 | 39.1 | 39.6 | 40.9 | 41.4 | - | 2.8 | 3.4 | 3.4 | 3.8 | - |
| Household audio and video equipment | 3651 | 38.6 | 38.9 | 42.1 | 42.5 | - | 2.2 | 2.7 | 3.6 | 3.8 | - |
| Communications equipment ..................................... | 366 | 41.8 | 42.6 | 42.2 | 41.4 | - | 2.6 | 2.9 | 2.8 | 2.8 | - |
| Telephone and telegraph apparatus ....................... | 3661 | 42.4 | 43.9 | 43.6 | 42.8 | - | 2.5 | 3.2 | 3.1 | 3.2 | - |

See footnotes at end of table.

## ESTABLISHMENT DATA HOURS AND EARNINGS NOT SEASONALLY ADJUSTED

C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed
industry-Continued industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Industrial machinery and equipment | 35 | \$11.39 | \$11.37 | \$11.75 | \$11.78 | \$11.82 | \$478.38 | \$475.27 | \$494.68 | \$491.23 | \$490.53 |
| Engines and turbines | 351 | 14.16 | 14.03 | 14.41 | 14.49 | - | 611.71 | 585.05 | 605.22 | 623.07 | - |
| Turbines and turbine generator sets | 3511 | 14.27 | 14.43 | 14.65 | 14.96 | - | 586.50 | 620.49 | 638.74 | 640.29 | - |
| Internal combustion engines, nec | 3519 | 14.13 | 13.88 | 14.32 | 14.31 | - | 620.31 | 573.24 | 592.85 | 616.76 | - |
| Farm and garden machinery ........... | 352 | 10.88 | 10.93 | 10.96 | 11.04 | - | 441.73 | 440.48 | 453.74 | 443.81 | - |
| Farm machinery and equipment | 3523 | 11.62 | 11.61 | 12.08 | 12.03 | - | 482.23 | 476.01 | 502.53 | 493.23 | - |
| Construction and related machinery | 353 | 11.48 | 11.42 | 11.85 | 11.88 | - | 483.31 | 479.64 | 508.37 | 503.71 | - |
| Construction machinery | 3531 | 12.75 | 12.63 | 13.40 | 13.45 | - | 540.60 | 530.46 | 566.82 | 558.18 | - |
| Mining machinery | 3532 | 11.22 | 11.38 | 11.73 | 11.80 | - | 460.02 | 467.72 | 495.01 | 486.16 | - |
| Oil and gas field machinery | 3533 | 11.19 | 11.11 | 11.17 | 11.09 | - | 464.39 | 465.51 | 516.05 | 514.58 | - |
| Conveyors and conveying equipmen | 3535 | 10.38 | 10.35 | 10.73 | 10.86 | - | 455.68 | 447.12 | 456.03 | 461.55 | - |
| Industrial trucks and tractors .......... | 3537 | 10.11 | 10.14 | 10.38 | 10.48 | - | 405.41 | 416.75 | 415.20 | 407.67 | - |
| Metalworking machinery | 354 | 11.86 | 11.85 | 12.24 | 12.31 | - | 508.79 | 506.00 | 521.42 | 521.94 | - |
| Machine tools, metal cutting types | 3541 | 11.70 | 11.68 | 12.23 | 12.12 | - | 501.93 | 502.24 | 509.99 | 494.50 | - |
| Machine tools, metal forming types ........................ | 3542 | 12.03 | 11.99 | 12.39 | 12.39 | - | 526.91 | 519.17 | 532.77 | 530.29 | - |
| Special dies, tools, jigs, and fixtures ....................... | 3544 | 12.64 | 12.58 | 12.87 | 12.97 | - | 551.10 | 547.23 | 555.98 | 564.20 | - |
| Machine tool accessonies | 3545 | 10.57 | 10.52 | 10.83 | 10.90 | - | 439.71 | 426.06 | 449.45 | 443.63 | - |
| Power driven handtools | 3546 | 9.35 | 9.41 | 10.06 | 10.09 | - | 397.38 | 398.98 | 419.50 | 418.74 | - |
| Special industry machinery ...................................... | 355 | 11.56 | 11.52 | 11.85 | 11.86 | - | 478.58 | 479.23 | 501.26 | 486.26 | - |
| Textile machinery. | 3552 | 9.73 | 9.72 | 10.19 | 10.18 | - | 410.61 | 410.18 | 436.13 | 427.56 | - |
| Printing trades machinery | 3555 | 13.29 | 13.37 | 13.83 | 13.73 | - | 493.06 | 500.04 | 543.52 | 523.11 | - |
| Food products machinery | 3556 | 11.43 | 11.52 | 11.57 | 11.68 | - | 477.77 | 488.45 | 482.47 | 470.70 | - |
| General industrial machinery | 356 | 10.84 | 10.82 | 11.32 | 11.32 | - | 449.86 | 447.95 | 477.70 | 469.78 | - |
| Pumps and pumping equipment | 3561 | 11.06 | 11.17 | 11.73 | 11.69 | - | 432.45 | 443.45 | 485.62 | 469.94 | - |
| Ball and roller beanings ......................................... | 3562 | 11.56 | 11.43 | 12.20 | 12.05 | - | 494.77 | 486.92 | 529.48 | 515.74 | - |
| Air and gas compressors | 3563 | 10.69 | 10.86 | 11.56 | 11.65 | - | 448.98 | 459.38 | 504.02 | 503.28 | - |
| Blowers and fans | 3564 | 9.65 | 9.70 | 10.02 | 10.02 | - | 392.76 | 393.82 | 402.80 | 394.79 | - |
| Speed changers, drives, and gears ........................ | 3566 | 11.59 | 11.33 | 11.69 | 11.77 | - | 476.35 | 465.66 | 490.98 | 490.81 | - |
| Power transmission equipment, nec ....................... | 3568 | 10.57 | 10.41 | 10.81 | 10.81 | - | 440.77 | 427.85 | 451.86 | 441.05 | - |
| Computer and olfice equipment | 357 | 11.01 | 11.01 | 11.53 | 11.60 | - | 460.22 | 462.42 | 486.57 | 488.36 | - |
| Electronic computers ........................................... | 3571 | 11.32 | 11.35 | 12.13 | 12.17 | - | 468.65 | 477.84 | 509.46 | 501.40 | - |
| Computer terminals, calculators, and office machines, nec $\qquad$ | 3575,8,9 | 10.49 | 10.31 | 10.97 | 10.80 | - | 429.04 | 427.87 | 442.09 | 437.40 | - |
| Refrigeration and service machinery | 358 | 10.61 | 10.57 | 11.00 | 10.92 | - | 441.38 | 432.31 | 447.70 | 434.62 | - |
| Refrigeration and heating equipment | 3585 | 10.70 | 10.62 | 11.19 | 11.07 | - | 453.68 | 437.54 | 457.67 | 448.34 | - |
| Misc. industrial and commercial machinery ................ | 359 | 11.29 | 11.31 | 11.56 | 11.58 | - | 477.57 | 477.28 | 487.83 | 484.04 | - |
| Carburetors, pistons, rings, valves | 3592 | 13.05 | 12.99 | 12.63 | 12.58 | - | 528.53 | 549.48 | 531.72 | 513.26 | - |
| Scales, balances, and industrial machinery, nec ..... | 3596,9 | 10.93 | 10.91 | 11.20 | 11.26 | - | 460.15 | 458.22 | 470.40 | 468.42 | - |
| Electronic and other electrical equipment .................... | 36 | 10.08 | 10.06 | 10.27 | 10.34 | 10.34 | 405.22 | 410.45 | 421.07 | 415.67 | 419.80 |
| Electric distribution equipment .................................. | 361 | 9.54 | 9.58 | 10.14 | 10.25 | - | 390.19 | 395.65 | 418.78 | 419.23 | - |
| Transformers, except electronic ............................. | 3612 | 9.20 | 9.28 | 9.87 | 9.89 | - | 375.36 | 386.05 | 411.58 | 410.44 | - |
| Switchgear and switchboard apparatus | 3613 | 9.89 | 9.90 | 10.42 | 10.63 | - | 405.49 | 405.90 | 426.18 | 428.39 | - |
| Electrical industrial apparatus ... | 362 | 9.88 | 9.82 | 10.00 | 10.07 | - | 410.02 | 403.60 | 423.00 | 418.91 | - |
| Motors and generators ......... | 3621 | 10.05 | 10.02 | 9.92 | 9.98 | - | 418.08 | 411.82 | 418.62 | 408.18 | - |
| Relays and industrial controls. | 3625 | 9.59 | 9.49 | 10.11 | 10.25 | - | 394.15 | 387.19 | 426.64 | 433.58 | - |
| Household appliances | 363 | 10.32 | 10.19 | 10.16 | 10.25 | - | 408.67 | 405.56 | 408.43 | 406.93 | - |
| Household refrigerators and freezers | 3632 | 11.82 | 11.85 | 11.30 | 11.30 | - | 450.34 | 456.23 | 438.44 | 446.35 | - |
| Household laundry equipment | 3633 | 12.18 | 11.99 | 12.53 | 12.68 | - | 499.38 | 486.79 | 513.73 | 504.66 | - |
| Electric housewares and fans.. | 3634 | 7.44 | 7.47 | 7.47 | 7.49 | - | 296.11 | 307.02 | 309.26 | 298.85 | - |
| Electric lighting and wiring equipment | 364 | 9.91 | 9.80 | 10.19 | 10.18 | - | 386.49 | 392.00 | 412.70 | 400.07 | - |
| Electric lamps ... | 3641 | 11.22 | 11.24 | 11.36 | 11.58 | - | 436.46 | 448.48 | 463.49 | 458.57 | - |
| Current-carrying wiring devices ............................... | 3643 | 9.88 | 9.77 | 9.94 | 9.91 | - | 390.26 | 383.96 | 397.60 | 391.45 | - |
| Noncurrent-carrying wiring devices | 3644 | 9.47 | 9.41 | 9.57 | 9.53 | - | 368.38 | 392.40 | 383.76 | 374.53 | - |
| Residential lighting fixtures ... | 3645 | 7.34 | 7.27 | 7.66 | 7.61 | - | 266.44 | 278.44 | 293.38 | 281.57 | - |
| Household audio and video equipment ..................... | 365 | 9.60 | 9.67 | 9.76 | 9.89 | - | 375.36 | 382.93 | 399.18 | 409.45 | - |
| Household audio and video equipment ................... | 3651 | 9.99 | 10.10 | 10.09 | 10.32 | - | 385.61 | 392.89 | 424.79 | 438.60 | - |
| Communications equipment .............. | 366 | 11.16 | 11.05 | 10.98 | 11.03 | - | 466.49 | 470.73 | 463.36 | 456.64 | - |
| Telephone and telegraph apparatus ....................... | 3661 | 11.62 | 11.55 | 11.55 | 11.60 | - | 492.69 | 507.05 | 503.58 | 496.48 | - |

See footnotes at end of table.

## C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{gathered} \text { Aug. } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & \text { 1990 } \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Electronic and other electrical equipment-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Electric components and accessories ... | 367 | 39.5 | 40.3 | 40.5 | 39.5 | - | 3.1 | 3.5 | 3.5 | 3.3 | - |
| Electron tubes. | 3671 | 40.1 | 41.5 | 41.4 | 40.8 | - | 2.9 | 3.9 | 4.0 | 3.8 | - |
| Semiconductors and related devices... | 3674 | 39.1 | 39.7 | 40.5 | 39.3 | - | 3.6 | 3.9 | 4.2 | 4.1 | - |
| Electronic components, nec | 3679 | 39.2 | 40.0 | 39.9 | 38.9 |  | 2.5 | 2.8 | 2.6 | 2.1 | - |
| Misc. electrical equipment and supplies ... | 369 | 40.7 | 42.5 | 41.4 | 39.7 | - | 2.9 | 3.8 | 3.3 | 2.8 | - |
| Storage batteries ............................................. | 3691 | 40.9 | 42.9 | 40.0 | 39.2 | - | 3.6 | 4.4 | 2.2 | 3.4 | - |
| Engine electrical equipment ................................ | 3694 | 40.1 | 42.9 | 42.1 | 39.4 | - | 2.7 | 4.2 | 4.3 | 2.6 | - |
| Transportation equipment | 37 | 41.6 | 41.8 | 42.8 | 41.9 | 42.3 | 4.1 | 4.3 | 4.7 | 4.0 | - |
| Motor vehicles and equipment | 371 | 41.4 | 41.6 | 44.0 | 42.3 | 42.8 | 3.8 | 4.1 | 5.4 | 4.1 | - |
| Motor vehicles and car bodies | 3711 | 41.0 | 40.8 | 43.9 | 42.4 | - | 4.1 | 3.9 | 5.4 | 3.8 |  |
| Truck and bus bodies | 3713 | 43.0 | 43.0 | 42.5 | 41.8 | - | 3.8 | 4.6 | 4.0 | 3.8 |  |
| Motor vehicle parts and accessories. | 3714 | 41.8 | 42.4 | 44.7 | 42.5 | - | 3.8 | 4.5 | 5.9 | 4.5 | - |
| Truck trailers | 3715 | 37.9 | 39.4 | 41.2 | 42.3 | - | 2.1 | 2.2 | 3.2 | 3.8 |  |
| Aircratt and parts. | 372 | 42.5 | 42.7 | 42.2 | 41.8 | - | 5.3 | 5.3 | 4.5 | 4.3 | - |
| Aircraft | 3721 | 42.9 | 42.9 | 41.7 | 41.0 | - | 5.4 | 5.4 | 4.1 | 3.7 | - |
| Aircratt engines and engine parts | 3724 | 42.0 | 42.2 | 42.8 | 43.2 | - | 5.2 | 5.4 | 5.3 | 5.5 | - |
| Aircraft parts and equipment, nec ........................ | 3728 | 42.3 | 42.6 | 42.6 | 42.0 | - | 5.1 | 5.0 | 4.4 | 4.4 |  |
| Ship and boat building and repaining ....................... | 373 | 39.9 | 40.5 | 40.5 | 40.4 | - | 2.9 | 3.0 | 3.0 | 3.1 |  |
| Ship building and repairing ... | 3731 | 41.1 | 41.3 | 40.9 | 42.0 | - | 3.1 | 3.3 | 2.9 | 3.5 | - |
| Boat building and repairing... | 3732 | 38.0 | 39.0 | 39.8 | 37.3 | - | 2.6 | 2.5 | 3.2 | 2.3 | - |
| Railroad equipment | 374 | 44.3 | 43.1 | 41.4 | 42.7 | - | 4.8 | 4.5 | 3.4 | 3.7 |  |
| Guided missiles, space vehicles, and parts. | 376 | 42.3 | 43.0 | 42.2 | 42.5 | - | 4.0 | 4.4 | 3.8 | 3.8 |  |
| Guided missiles and space vehicles ...................... | 3761 | 42.4 | 42.8 | 42.6 | 42.8 | - | 4.3 | 4.5 | 4.3 | 4.2 | - |
| Misc. transportation equipment | 379 | 39.3 | 38.9 | 39.6 | 40.5 | - | 2.4 | 2.3 | 2.5 | 3.2 | - |
| Travel trailers and campers | 3792 | 39.2 | 37.8 | 38.1 | 39.7 | - | 1.7 | 1.7 | 2.0 | 3.2 | - |
| Instruments and related products | 38 | 40.5 | 40.7 | 41.2 | 40.7 | 40.8 | 2.6 | 2.7 | 2.8 | 2.6 | - |
| Search and navigation equipment. | 381 | 40.0 | 40.9 | 40.5 | 40.3 | - | 2.4 | 2.8 | 2.1 | 2.1 |  |
| Measuring and controlling devices | 382 | 40.9 | 40.8 | 41.5 | 41.3 | - | 2.4 | 2.5 | 2.8 | 2.5 |  |
| Environmental controls. | 3822 | 38.9 | 39.4 | 40.4 | 39.7 | - | 2.4 | 2.1 | 2.4 | 2.7 | - |
| Process control instruments .. | 3823 | 41.7 | 41.7 | 43.5 | 42.2 | - | 3.2 | 3.2 | 4.3 | 3.7 | - |
| Instruments to measure electricity .. | 3825 | 41.4 | 40.4 | 40.9 | 41.4 | - | 1.9 | 2.2 | 2.1 | 1.5 |  |
| Medical instruments and supplies ...... | 384 | 39.7 | 40.3 | 41.4 | 40.0 | - | 2.6 | 2.9 | 3.1 | 3.0 | - |
| Surgical and medical instruments... | 3841 | 39.8 | 40.6 | 41.6 | 39.3 | - | 2.7 | 3.4 | 3.0 | 3.0 | - |
| Surgical appliances and supplies .... | 3842 | 39.4 | 39.9 | 40.9 | 40.0 | - | 2.4 | 2.4 | 3.0 | 2.8 |  |
| Ophthalmic goods ... | 385 | 39.6 | 39.4 | 40.6 | 39.7 | - | 2.5 | 3.1 | 2.5 | 2.4 | - |
| Photographic equipment and supplies | 386 | 43.2 | 42.4 | 41.9 | 42.0 | - | 3.6 | 2.9 | 3.4 | 3.5 | - |
| Watches, clocks, watchcases, and parts .... | 387 | 40.2 | 39.0 | 40.1 | 38.8 | - | 1.3 | 1.3 | 2.8 | 2.0 | - |
| Miscellaneous manufacturing industries. | 39 | 38.6 | 39.2 | 39.5 | 38.7 | 39.2 | 2.2 | 2.6 | 2.4 | 2.1 | - |
| Jewerry, silverware, and plated ware .. | 391 | 36.5 | 37.7 | 37.9 | 37.1 | - | 1.4 | 2.0 | 1.3 | . 9 | - |
| Jewelry, precious metal ........................................ | 3911 | 35.9 | 37.2 | 37.3 | 36.3 | - | 1.3 | 1.9 | 1.1 | . 8 | - |
| Musical instruments | 393 | 37.8 | 39.0 | 39.6 | 38.7 | - | 1.2 | 1.9 | 2.4 | 1.3 |  |
| Toys and sporting goods. | 394 | 38.5 | 39.2 | 39.5 | 39.0 | - | 2.0 | 2.7 | 2.4 | 2.1 | - |
| Dolls, games, toys, and children's vehicles | 3942,4 | 37.6 | 38.5 | 39.4 | 38.8 | - | 1.2 | 1.7 | 1.7 | 1.7 | - |
| Sporting and athletic goods, nec | 3949 | 39.2 | 39.8 | 39.6 | 39.2 | - | 2.6 | 3.4 | 2.9 | 2.4 | - |
| Pens, pencils, office, and art supplies ....................... | 395 | 39.7 | 40.2 | 40.4 | 41.0 | - | 2.3 | 2.2 | 2.4 | 3.1 | - |
| Costume jewelry and notions .............. | . 396 | 37.6 | 38.8 | 41.0 | 38.5 | - | 2.9 | 3.4 | 3.0 | 2.1 | - |
| Costume jewerry | . 3961 | 37.6 | 38.3 | 42.0 | 39.0 | - | 3.2 | 3.8 | 3.6 | 2.3 | - |
| Miscellaneous manufactures ... | . 399 | 39.4 | 39.6 | 39.4 | 38.6 | - | 2.6 | 2.8 | 2.6 | 2.4 | - |
| Signs and advertising specialties ......................... | . 3993 | 39.5 | 39.8 | 39.6 | 39.3 | - | 2.5 | 3.0 | 3.0 | 3.2 | - |
| Nondurable goods.. |  | 40.0 | 40.3 | 40.3 | 39.8 | 40.3 | 3.6 | 3.8 | 3.6 | 3.6 | 3.9 |
| Food and kindred products.. | 20 | 41.0 | 41.2 | 40.9 | 40.7 | 41.6 | 4.9 | 5.0 | 4.5 | 4.8 | - |
| Meat products ..................... | 201 | 41.3 | 41.2 | 40.3 | 40.0 | - | 4.8 | 4.8 | 4.4 | 4.0 | - |
| Meat packing plants.. | . 2011 | 41.1 | 41.6 | 41.3 | 41.2 | - | 5.4 | 5.5 | 5.0 | 4.8 | - |
| Sausages and other prepared meats .. | . 2013 | 41.6 | 41.6 | 41.7 | 41.8 | - | 4.9 | 5.2 | 5.2 | 5.1 | - |
| Poultry slaughtering and processing ... | 2015 | 41.4 | 40.8 | 39.1 | 38.5 | - | 4.5 | 4.1 | 3.7 | 3.2 | - |
| Dairy products .. | 202 | 41.3 | 40.6 | 41.3 | 41.6 | - | 4.6 | 4.3 | 4.9 | 5.0 | - |
| Cheese, natural and processed.. | . 2022 | 39.7 | 38.8 | 39.6 | 39.7 | - | 3.6 | 3.4 | 3.8 | 3.5 | - |
| Fluid milk ............. | 2026 | 42.0 | 41.4 | 41.9 | 42.1 | - | 5.0 | 4.7 | 5.0 | 5.2 | - |
| Preserved fruits and vegetables ... | 203 | 40.5 | 41.7 | 40.0 | 39.9 | - | 5.7 | 6.2 | 4.1 | 5.2 | - |
| Canned specialties | 2032 | 40.9 | 44.2 | 44.0 | 41.8 | - | 4.6 | 7.3 | 4.0 | 2.8 | - |
| Canned fruits and vegetables.. | 2033 | 42.1 | 42.8 | 38.9 | 39.2 | - | 7.1 | 6.9 | 4.1 | 6.2 | - |
| Frozen fruits and vegetables ................................. | . 2037 | 37.7 | 39.3 | 38.1 | 39.6 | - | 4.4 | 5.9 | 3.8 | 5.7 | - |

See footnotes at end of table.

# ESTABLISHMENT DATA <br> HOURS AND EARNINGS NOT SEASONALLY ADJUSTED 

C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed industry-Continued

| Industry | 1987 <br> SIC <br> Code | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. $1989$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { Aug. } \\ 1990^{\circ} \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Electronic and other electrical equipment-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Electric components and accessories | 367 | \$9.62 | \$9.61 | \$9.95 | \$10.07 | - | \$379.99 | \$387.28 | \$402.98 | \$397.77 | - |
| Electron tubes ... | 3671 | 11.26 | 11.16 | 12.06 | 12.14 | - | 451.53 | 463.14 | 499.28 | 495.31 | - |
| Semiconductors and related devices | 3674 | 11.84 | 11.81 | 12.19 | 12.39 | - | 462.94 | 468.86 | 493.70 | 486.93 | - |
| Electronic components, nec | 3679 | 9.04 | 9.06 | 9.35 | 9.41 | - | 354.37 | 362.40 | 373.07 | 366.05 | - |
| Misc. electrical equipment and supplies | 369 | 10.92 | 11.04 | 11.22 | 11.20 | - | 444.44 | 469.20 | 464.51 | 444.64 | - |
| Storage batteries | 3691 | 11.86 | 11.80 | 12.06 | 12.35 | - | 485.07 | 506.22 | 482.40 | 484.12 | - |
| Engine electrical equipment | 3694 | 11.68 | 11.90 | 12.18 | 11.93 | - | 468.37 | 510.51 | 512.78 | 470.04 | - |
| Transportation equipment | 37 | 13.58 | 13.67 | 14.20 | 14.04 | \$14.15 | 564.93 | 571.41 | 607.76 | 588.28 | \$598.55 |
| Motor vehicles and equipment ................................. | 371 | 14.04 | 14.16 | 14.85 | 14.56 | 14.68 | 581.26 | 589.06 | 653.40 | 615.89 | 628.30 |
| Motor vehicles and car bodies | 3711 | 16.53 | 16.46 | 17.39 | 17.15 | - | 677.73 | 671.57 | 763.42 | 727.16 | - |
| Truck and bus bodies | 3713 | 11.81 | 11.97 | 12.52 | 12.47 | - | 507.83 | 514.71 | 532.10 | 521.25 | - |
| Motor vehicle parts and accesson | 3714 | 13.09 | 13.17 | 13.74 | 13.54 | - | 547.16 | 558.41 | 614.18 | 575.45 | - |
| Truck trailers ... | 3715 | 9.37 | 9.40 | 9.59 | 9.63 | - | 355.12 | 370.36 | 395.11 | 407.35 | - |
| Aircraft and parts | 372 | 14.23 | 14.25 | 14.72 | 14.70 | - | 604.78 | 608.48 | 621.18 | 614.46 | - |
| Aircraft ........... | 3721 | $\left.{ }^{( }\right)$ | $\left.{ }^{( }\right)$ | ${ }^{( }{ }^{2}$ | ( ${ }^{\text {a }}$ | - | - | - | - | - | - |
| Aircraft engines and engine parts | 3724 | \$14.60 | \$14.58 | \$14.57 | \$14.69 | - | \$613.20 | \$615.28 | \$623.60 | \$634.61 | - |
| Aircraft parts and equipment, nec | 3728 | 12.83 | 12.85 | 13.32 | 13.37 | - | 542.71 | 547.41 | 567.43 | 561.54 | - |
| Ship and boat building and repairing | 373 | 10.76 | 10.71 | 10.85 | 10.99 | - | 429.32 | 433.76 | 439.43 | 444.00 | - |
| Ship building and repairing. | 3731 | 11.75 | 11.68 | 11.81 | 11.82 | - | 482.93 | 482.38 | 483.03 | 496.44 | - |
| Boat building and repairing | 3732 | 9.05 | 9.02 | 9.01 | 9.17 | - | 343.90 | 351.78 | 358.60 | 342.04 | - |
| Railroad equipment | 374 | 12.68 | 12.77 | 13.30 | 13.42 | - | 561.72 | 550.39 | 550.62 | 573.03 | - |
| Guided missiles, space vehicles, and parts | 376 | 13.68 | 13.79 | 14.29 | 14.45 | - | 578.66 | 592.97 | 603.04 | 614.13 | - |
| Guided missiles and space vehicles ......... | 3761 | () | () | ${ }^{(2)}$ | ${ }^{(2)}$ | - | - | - | - | - | - |
| Misc. transportation equipment | 379 | \$10.54 | \$10.70 | \$10.88 | \$10.75 | - | \$414.22 | \$416.23 | \$430.85 | \$435.38 | - |
| Travel trailers and campers .. | 3792 | 8.83 | 9.33 | 9.55 | 9.33 | - | 346.14 | 352.67 | 363.86 | 370.40 | - |
| Instruments and related products | 38 | 10.86 | 10.90 | 11.27 | 11.36 | \$11.32 | 439.83 | 443.63 | 464.32 | 462.35 | \$461.86 |
| Search and navigation equipment | 381 | 13.75 | 13.91 | 14.71 | 14.74 | - | 550.00 | 568.92 | 595.76 | 594.02 | - |
| Measuring and controlling devices | 382 | 10.26 | 10.28 | 10.63 | 10.68 | - | 419.63 | 419.42 | 441.15 | 441.08 | - |
| Environmental controls ......................................... | 3822 | 9.30 | 9.28 | 9.31 | 9.27 | - | 361.77 | 365.63 | 376.12 | 368.02 | - |
| Process control instruments ................................... | 3823 | 9.70 | 9.72 | 10.39 | 10.41 | - | 404.49 | 405.32 | 451.97 | 439.30 | - |
| Instruments to measure electricity | 3825 | 10.35 | 10.35 | 10.70 | 10.83 | - | 428.49 | 418.14 | 437.63 | 448.36 | - |
| Medical instruments and supplies .. | 384 | 9.43 | 9.49 | 9.74 | 9.90 | - | 374.37 | 382.45 | 403.24 | 396.00 | - |
| Surgical and medical instruments ........................... | 3841 | 9.43 | 9.55 | 9.83 | 9.92 | - | 375.31 | 387.73 | 408.93 | 389.86 | - |
| Surgical appliances and supplies | 3842 | 9.18 | 9.15 | 9.47 | 9.60 | - | 361.69 | 365.09 | 387.32 | 384.00 | - |
| Ophthalmic goods ....................... | 385 | 7.80 | 7.79 | 8.15 | 8.15 | - | 308.88 | 306.93 | 330.89 | 323.56 | - |
| Photographic equipment and supplies ...................... | 386 | 13.47 | 13.35 | 14.15 | 14.21 | - | 581.90 | 566.04 | 592.89 | 596.82 | - |
| Watches, clocks, watchcases, and parts | 387 | 7.46 | 7.33 | 7.75 | 7.79 | - | 299.89 | 285.87 | 310.78 | 302.25 | - |
| Miscellaneous manufacturing industries ....................... | 39 | 8.28 | 8.20 | 8.61 | 8.61 | 8.64 | 319.61 | 321.44 | 340.10 | 333.21 | 338.69 |
| Jewelry, silverware, and plated ware ......................... | 391 | 9.00 | 8.94 | 9.23 | 9.23 | - | 328.50 | 337.04 | 349.82 | 342.43 | - |
| Jewelry, precious metal | 3911 | 9.05 | 8.97 | 9.17 | 9.14 | - | 324.90 | 333.68 | 342.04 | 331.78 | - |
| Musical instruments | 393 | 8.26 | 8.18 | 8.62 | 8.90 | - | 312.23 | 319.02 | 341.35 | 344.43 | - |
| Toys and sporting goods.. | 394 | 7.56 | 7.59 | 7.96 | 7.91 | - | 291.06 | 297.53 | 314.42 | 308.49 | - |
| Dolls, games, toys, and children's vehicles | 3942,4 | 7.39 | 7.24 | 7.72 | 7.68 | - | 277.86 | 278.74 | 304.17 | 297.98 | - |
| Sporting and athletic goods, nec ..... | 3949 | 7.68 | 7.85 | 8.12 | 8.08 | - | 301.06 | 312.43 | 321.55 | 316.74 | - |
| Pens, pencils, office, and art supplies | 395 | 8.07 | 8.06 | 8.84 | 9.16 | - | 320.38 | 324.01 | 357.14 | 375.56 | - |
| Costume jewelry and notions .................................. | 396 | 7.31 | 7.17 | 7.46 | 7.42 | - | 274.86 | 278.20 | 305.86 | 285.67 | - |
| Costume jewelry ............... | 3961 | 6.55 | 6.37 | 6.71 | 6.60 | - | 246.28 | 243.97 | 281.82 | 257.40 | - |
| Miscellaneous manufactures. | 399 | 8.86 | 8.75 | 9.17 | 9.07 | - | 349.08 | 346.50 | 361.30 | 350.10 | - |
| Signs and advertising specialties ........................... | 3993 | 9.36 | 9.45 | 9.83 | 9.80 | - | 369.72 | 376.11 | 389.27 | 385.14 | - |
| Nondurable goods |  | 9.78 | 9.73 | 10.12 | 10.19 | 10.12 | 391.20 | 392.12 | 407.84 | 405.56 | 407.84 |
| Food and kindred products | 20 | 9.39 | 9.32 | 9.67 | 9.67 | 9.51 | 384.99 | 383.98 | 395.50 | 393.57 | 395.62 |
| Meat products ... | 201 | 7.79 | 7.77 | 7.98 | 7.99 | - | 321.73 | 320.12 | 321.59 | 319.60 | - |
| Meat packing plants | 2011 | 8.74 | 8.68 | 8.79 | 8.76 | - | 359.21 | 361.09 | 363.03 | 360.91 | - |
| Sausages and other prepared meats | 2013 | 9.26 | 9.20 | 9.37 | 9.36 | - | 385.22 | 382.72 | 390.73 | 391.25 | - |
| Poultry slaughtering and processing | 2015 | 6.62 | 6.61 | 6.88 | 6.91 | - | 274.07 | 269.69 | 269.01 | 266.04 | - |
| Dairy products. | 202 | 10.24 | 10.16 | 10.47 | 10.53 | - | 422.91 | 412.50 | 432.41 | 438.05 | - |
| Cheese, natural and processed | 2022 | 9.50 | 9.49 | 9.60 | 9.56 | - | 377.15 | 368.21 | 380.16 | 379.53 | - |
| Fluid milk. | 2026 | 10.73 | 10.60 | 11.00 | 11.05 | - | 450.66 | 438.84 | 460.90 | 465.21 | - |
| Preserved fruits and vegetables | 203 | 8.71 | 8.60 | 8.98 | 8.97 11.23 | - | 352.76 | 358.62 | 359.20 | 357.90 | - |
| Canned specialties ......... | 2032 | 10.68 | 10.51 | 11.47 | 11.23 | - | 436.81 | 464.54 | 504.68 | 469.41 | - |
| Canned fruits and vegetables | 2033 | 9.00 | 8.79 | 9.39 | 9.44 | - | 378.90 | 376.21 | 365.27 | 370.05 | - |
| Frozen fruits and vegetables .................... | 2037 | 7.67 | 7.48 | 7.97 | 8.00 | - | 289.16 | 293.96 | 303.66 | 316.80 | - |

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED
C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolis by detalled
industry-Continued

| Industry | 1987 SIC Code | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Food and kindred products-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Grain mill products .................................................. | 204 | 44.1 | 44.2 | 45.5 | 45.3 | - | 5.5 | 5.8 | 6.4 | 6.4 | - |
| Flour and other grain mill products ......................... | 2041 | 45.9 | 47.4 | 49.0 | 48.7 | - | 6.5 | 8.1 | 7.2 | 7.1 | - |
| Prepared feeds, nec .................... | 2048 | 43.1 | 42.3 | 42.1 | 42.2 | - | 5.4 | 5.1 | 5.2 | 5.3 | - |
| Bakery products ...................................................... | 205 | 39.7 | 39.8 | 39.6 | 39.2 | - | 4.2 | 4.3 | 3.9 | 4.3 | - |
| Bread, cake, and related products ......................... | 2051 | 39.1 | 39.0 | 39.5 | 39.1 | - | 4.5 | 4.4 | 4.5 | 4.6 | - |
| Cookies, crackers, and frozen bakery products, except bread $\qquad$ | 2052,3 | 40.8 | 41.5 | 39.9 | 39.4 | - | 3.5 | 4.2 | 2.8 | 3.6 | - |
| Sugar and confectionery products ............................ | 206 | 40.8 | 41.6 | 41.4 | 41.2 | - | 3.5 | 4.2 | 3.4 | 3.9 | - |
| Raw cane sugar .................................................... | 2061 | 43.9 | 44.1 | 41.4 | 40.2 | - | 4.0 | 4.1 | 3.2 | 3.8 | - |
| Cane sugar refining | 2062 | 48.0 | 48.8 | 48.8 | 48.6 | - | 10.2 | 10.7 | 9.7 | 9.9 | - |
| Beet sugar | 2063 | 41.3 | 39.9 | 38.7 | 40.8 | - | 3.6 | 3.7 | 3.0 | 4.1 | - |
| Candy and other confectionery products ................ | 2064 | 39.1 | 40.8 | 40.8 | 40.2 | - | 2.5 | 3.6 | 2.6 | 3.0 | - |
| Fats and oils ........................................... | 207 | 43.3 | 43.7 | 44.3 | 43.6 | - | 5.6 | 6.1 | 6.1 | 6.3 | - |
| Beverages | 208 | 42.4 | 41.6 | 42.5 | 42.3 | - | 4.8 | 4.3 | 5.2 | 5.3 | - |
| Malt beverages | 2082 | 44.8 | 43.0 | 44.0 | 44.0 | - | 7.2 | 6.3 | 7.2 | 7.2 | _ |
| Bottled and canned soft drinks | 2086 | 42.2 | 41.2 | 41.9 | 42.6 | - | 4.6 | 3.7 | 4.8 | 5.4 | - |
| Misc. food and kindred products.. | 209 | 38.8 | 39.5 | 40.1 | 39.9 | - | 4.5 | 4.7 | 4.6 | 5.3 | - |
| Tobacco products .................................................... | 21 | 37.9 | 37.3 | 39.5 | 38.5 | 38.0 | 1.4 | . 9 | 2.0 | 1.8 | - |
| Cigarettes .............................................................. | 211 | 38.2 | 37.7 | 39.4 | 38.4 | - | 1.3 | . 6 | 1.9 | 1.7 | - |
| Textile mill products .................................................. | 22 | 40.5 | 41.3 | 40.6 | 39.6 | 40.3 | 3.9 | 4.2 | 3.9 | 3.5 | - |
| Broadwoven fabric mills, cotton ............................... | 221 | 41.5 | 42.3 | 39.9 | 38.5 | - | 5.0 | 5.0 | 4.1 | 3.9 | - |
| Broadwoven fabric mills, synthetics .......................... | 222 | 40.7 | 41.3 | 41.2 | 40.4 | - | 3.9 | 4.2 | 3.9 | 3.7 | - |
| Broadwoven fabric mills, wool | 223 | 41.4 | 40.5 | 42.0 | 41.6 | $\cdots$ | 3.3 | 2.9 | 4.7 | 4.0 | - |
| Narrow fabric mills ........ | 224 | 40.5 | 41.4 | 41.0 | 40.6 | - | 2.9 | 3.7 | 3.1 | 2.5 | - |
| Knitting mills | 225 | 39.6 | 40.2 | 39.6 | 38.3 | - | 3.7 | 3.8 | 3.3 | 3.1 | - |
| Women's hosiery, except socks ............................ | 2251 | 36.5 | 38.3 | 38.8 | 36.9 | - | 2.3 | 2.4 | 2.6 | 2.3 | - |
| Hosiery, nec ......................................................... | 2252 | 39.8 | 40.3 | 38.9 | 38.1 | - | 3.6 | 3.9 | 2.7 | 2.7 | - |
| Knit outerwear mills | 2253 | 40.2 | 39.8 | 39.6 | 38.7 | - | 3.9 | 4.1 | 3.6 | 3.5 | - |
| Knit underwear mills | 2254 | 38.7 | 40.3 | 38.9 | 36.2 | - | 2.0 | 2.4 | 1.9 | 1.8 | - |
| Weft knit fabric mills .............................................. | 2257 | 41.8 | 42.4 | 40.8 | 39.3 | - | 5.1 | 5.1 | 4.1 | 3.3 | - |
| Textile finishing, except wool ................................... | 226 | 41.4 | 41.8 | 42.5 | 40.3 | - | 4.4 | 4.7 | 5.4 | 4.1 | - |
| Finishing plants, cotton .......................................... | 2261 | 42.6 | 42.7 | 42.1 | 40.3 | - | 4.8 | 4.8 | 4.9 | 3.6 | - |
| Finishing plants, synthetics ................................... | 2262 | 40.0 | 40.9 | 42.9 | 39.9 | - | 3.8 | 4.5 | 5.9 | 4.1 | - |
| Carpets and rugs .................................................... | 227 | 40.7 | 43.3 | 43.1 | 42.0 | - | 4.0 | 4.7 | 4.6 | 4.0 | - |
| Yarn and thread mills | 228 | 39.9 | 40.7 | 40.0 | 39.4 | - | 3.7 | 4.1 | 3.7 | 3.4 | - |
| Yarn spinning mills | 2281 | 40.0 | 41.0 | 40.3 | 39.9 | - | 3.8 | 4.4 | 3.9 | 3.7 | - |
| Throwing and winding mills ................................... | 2282 | 38.3 | 37.5 | 37.9 | 36.2 | - | 2.4 | 2.3 | 2.5 | 1.7 | - |
| Miscellaneous textile goods ..................................... | 229 | 41.5 | 42.1 | 41.1 | 40.7 | - | 3.7 | 4.1 | 3.9 | 3.4 | - |
| Apparel and other textile products ............................. | 23 | 36.7 | 37.0 | 36.9 | 36.3 | 36.7 | 1.5 | 1.9 | 1.7 | 1.4 | - |
| Men's and boys' suits and coats ............................. | 231 | 36.5 | 34.9 | 35.7 | 36.6 | - | . 9 | 1.1 | . 8 | . 9 | - |
| Men's and boys' furnishings ..................................... | 232 | 37.0 | 37.3 | 36.9 | 36.6 | - | 1.5 | 1.8 | 1.3 | 1.1 | - |
| Men's and boys' shirts .......................................... | 2321 | 37.0 | 37.8 | 36.9 | 36.6 | - | 1.2 | 1.4 | 1.1 | . 8 | - |
| Men's and boys' trousers and slacks ..................... | 2325 | 37.2 | 36.3 | 35.7 | 36.0 | - | 1.7 | 1.7 | 1.3 | 1.2 | - |
| Men's and boys' work clothing .............................. | 2326 | 36.5 | 36.4 | 37.6 | 37.1 | - | 1.2 | 1.9 | 1.5 | . 9 | - |
| Women's and misses' outerwear ............................. | 233 | 35.2 | 35.3 | 35.4 | 34.8 | - | 1.3 | 1.6 | 1.5 | 1.3 | - |
| Women's and misses' blouses and shirts | 2331 | 35.2 | 35.1 | 36.7 | 35.1 | - | . 8 | 1.1 | 1.2 | . 7 | - |
| Women's, juniors', and misses' dresses ................. | 2335 | 34.5 | 34.7 | 34.0 | 33.9 | - | 1.4 | 1.6 | 1.3 | 1.2 | - |
| Women's and misses' suits and coats ................... | 2337 | 36.6 | 36.8 | 35.3 | 35.2 | - | 2.0 | 2.3 | 1.9 | 1.8 | - |
| Women's and misses' outerwear, nec .................... | 2339 | 35.1 | 35.3 | 35.7 | 35.0 | - | 1.3 | 1.5 | 1.5 | 1.4 | - |
| Women's and children's undergarments .................... | 234 | 36.9 | 37.5 | 37.7 | 36.6 | - | 1.2 | 1.5 | 1.4 | 1.3 | - |
| Women's and children's underwear ....................... | 2341 | 37.6 | 38.1 | 38.4 | 37.1 | - | 1.3 | 1.6 | 1.5 | 1.4 | - |
| Brassieres, girdles, and allied garments .... | 2342 | 33.3 | 34.3 | 34.5 | 33.8 | - | . 5 | . 8 | 1.0 | . 8 | - |
| Girl's and children's outerwear ................. | 236 | 37.2 | 37.0 | 36.7 | 36.1 | - | 1.7 | 1.7 | 1.5 | 1.4 | - |
| Girl's and children's dresses and blouses .............. | 2361 | 36.6 | 36.1 | 36.0 | 35.0 | - | 1.6 | 1.3 | 1.8 | 1.5 | - |
| Misc. apparel and accessories .... | 238 | 38.1 | 38.0 | 37.2 | 36.2 | - | 1.7 | 2.1 | 1.3 | . 9 | - |
| Misc. fabricated textile products ............................... | 239 | 38.1 | 39.5 | 39.1 | 38.0 | - | 2.2 | 3.0 | 2.9 | 2.2 | - |
| Curtains and draperies .............. | 2391 | 35.0 | 37.1 | 37.3 | 34.6 | - | 2.1 | 2.3 | 2.0 | 1.7 | - |
| House furnishings, nec ......................................... | 2392 | 39.5 | 40.2 | 38.4 | 38.1 | - | 2.7 | 3.3 | 2.2 | 2.1 | - |
| Automotive and apparel trimmings ......................... | 2396 | 37.7 | 40.5 | 40.9 | 39.9 | - | 1.9 | 3.6 | 4.1 | 2.1 | - |

See footnotes at end of table.

# ESTABLISHMENT DATA <br> HOURS AND EARNINGS NOT SEASONALLY ADJUSTED 

## C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolis by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{D} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Nondurable goods-Continued Food and kindred products-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 204 | \$11.42 | \$11.41 | \$11.74 | \$11.69 | - | \$503.62 | \$504.32 | \$534.17 | \$529.56 | - |
| Flour and other grain mill products. | 2041 | 10.96 | 11.23 | 10.71 | 10.82 | - | 503.06 | 532.30 | 524.79 | 526.93 | - |
| Prepared feeds, nec | 2048 | 8.70 | 8.75 | 9.02 | 9.07 | - | 374.97 | 370.13 | 379.74 | 382.75 | - |
| Bakery products ......... | 205 | 10.50 | 10.50 | 10.83 | 10.97 | - | 416.85 | 417.90 | 428.87 | 430.02 | - |
| Bread, cake, and related products ......................... | 2051 | 10.54 | 10.53 | 10.87 | 11.04 | - | 412.11 | 410.67 | 429.37 | 431.66 | - |
| Cookies, crackers, and frozen bakery products, except bread $\qquad$ | 2052,3 | 10.42 | 10.46 | 10.75 | 10.85 | - | 425.14 | 434.09 | 428.93 | 427.49 | - |
| Sugar and confectionery products ............................ | 206 | 10.16 | 10.11 | 10.51 | 10.47 | - | 414.53 | 420.58 | 435.11 | 431.36 | - |
| Raw cane sugar .................................................... | 2061 | 9.36 | 9.68 | 10.18 | 9.91 | - | 410.90 | 426.89 | 421.45 | 398.38 | - |
| Cane sugar refining .............................................. | 2062 | 13.76 | 14.00 | 14.15 | 13.98 | - | 660.48 | 683.20 | 690.52 | 679.43 | - |
| Beet sugar ........................................................... | 2063 | 11.11 | 11.36 | 11.43 | 11.53 | - | 458.84 | 453.26 | 442.34 | 470.42 | - |
| Candy and other confectionery products | 2064 | 8.98 | 8.95 | 9.37 | 9.28 | - | 351.12 | 365.16 | 382.30 | 373.06 | - |
| Fats and oils .... | 207 | 10.00 | 10.06 | 10.10 | 10.29 | - | 433.00 | 439.62 | 447.43 | 448.64 | - |
| Beverages | 208 | 13.04 | 12.94 | 13.41 | 13.43 | - | 552.90 | 538.30 | 569.93 | 568.09 | - |
| Malt beverages | 2082 | 18.06 | 17.99 | 18.45 | 18.40 | - | 809.09 | 773.57 | 811.80 | 809.60 | - |
| Bottled and canned soft drinks | 2086 | 10.39 | 10.36 | 10.80 | 10.86 | - | 438.46 | 426.83 | 452.52 | 462.64 | - |
| Misc. food and kindred products ............................... | 209 | 8.73 | 8.70 | 8.95 | 8.98 | - | 338.72 | 343.65 | 358.90 | 358.30 | - |
| Tobacco products | 21 | 16.34 | 15.72 | 17.24 | 17.48 | \$16.10 | 619.29 | 586.36 | 680.98 | 672.98 | \$611.80 |
| Cigarettes .............................................................. | 211 | 18.40 | 18.60 | 19.24 | 19.42 | - | 702.88 | 701.22 | 758.06 | 745.73 | - |
| Textile mill products | 22 | 7.65 | 7.68 | 8.02 | 8.01 | 8.05 | 309.83 | 317.18 | 325.61 | 317.20 | 324.42 |
| Broadwoven fabric mills, cotton | 221 | 8.06 | 8.04 | 8.32 | 8.31 | - | 334.49 | 340.09 | 331.97 | 319.94 | - |
| Broadwoven fabric mills, synthetics | 222 | 8.27 | 8.33 | 8.66 | 8.58 | - | 336.59 | 344.03 | 356.79 | 346.63 | - |
| Broadwoven fabric mills, wool | 223 | 8.44 | 8.43 | 8.86 | 8.73 | - | 349.42 | 341.42 | 372.12 | 363.17 | - |
| Narrow fabric mills | 224 | 7.11 | 7.15 | 7.35 | 7.34 | - | 287.96 | 296.01 | 301.35 | 298.00 | - |
| Knitting mills | 225 | 6.93 | 7.00 | 7.37 | 7.39 | - | 274.43 | 281.40 | 291.85 | 283.04 | - |
| Women's hosiery, except socks ............................. | 2251 | 6.80 | 6.76 | 6.85 | 6.83 | - | 248.20 | 258.91 | 265.78 | 252.03 | - |
| Hosiery, nec | 2252 | 6.73 | 6.74 | 7.03 | 7.03 | - | 267.85 | 271.62 | 273.47 | 267.84 | - |
| Knit outerwear mills | 2253 | 6.55 | 6.71 | 7.27 | 7.33 | - | 263.31 | 267.06 | 287.89 | 283.67 | - |
| Knit underwear mills | 2254 | 6.87 | 6.94 | 7.37 | 7.45 | - | 265.87 | 279.68 | 286.69 | 269.69 | - |
| Weft knit fabric mills | 2257 | 7.73 | 7.75 | 8.05 | 8.02 | - | 323.11 | 328.60 | 328.44 | 315.19 | - |
| Textile finishing, except wool | 226 | 8.05 | 8.09 | 8.42 | 8.40 | - | 333.27 | 338.16 | 357.85 | 338.52 | - |
| Finishing plants, cotton .... | 2261 | 8.07 | 8.04 | 8.39 | 8.33 | - | 343.78 | 343.31 | 353.22 | 335.70 | - |
| Finishing plants, synthetics | 2262 | 8.35 | 8.47 | 8.75 | 8.75 | - | 334.00 | 346.42 | 375.38 | 349.13 | - |
| Carpets and rugs ....... | 227 | 8.06 | 7.95 | 8.22 | 8.29 | - | 328.04 | 344.24 | 354.28 | 348.18 | - |
| Yarn and thread mills | 228 | 7.36 | 7.42 | 7.67 | 7.69 | - | 293.66 | 301.99 | 306.80 | 302.99 | - |
| Yarn spinning mills ............................................... | 2281 | 7.36 | 7.42 | 7.67 | 7.69 | - | 294.40 | 304.22 | 309.10 | 306.83 | - |
| Throwing and winding mills ................................... | 2282 | 7.51 | 7.52 | 7.88 | 7.83 | - | 287.63 | 282.00 | 298.65 | 283.45 | - |
| Miscellaneous textile goods .................................... | 229 | 8.47 | 8.56 | 9.12 | 9.06 | - | 351.51 | 360.38 | 374.83 | 368.74 | - |
| Apparel and other textile products | 23 | 6.28 | 6.33 | 6.61 | 6.57 | 6.63 | 230.48 | 234.21 | 243.91 | 238.49 | 243.32 |
| Men's and boys' suits and coats .............................. | 231 | 7.15 | 7.09 | 7.40 | 7.50 | - | 260.98 | 247.44 | 264.18 | 274.50 | - |
| Men's and boys' furnishings .................................... | 232 | 5.74 | 5.77 | 6.05 | 6.03 | - | 212.38 | 215.22 | 223.25 | 220.70 | - |
| Men's and boys' shirts .......................................... | 2321 | 5.53 | 5.64 | 5.94 | 5.89 | - | 204.61 | 213.19 | 219.19 | 215.57 | - |
| Men's and boys' trousers and slacks ..................... | 2325 | 5.82 | 5.69 | 5.97 | 5.92 | - | 216.50 | 206.55 | 213.13 | 213.12 | - |
| Men's and boys' work clothing ............................... | 2326 | 5.47 | 5.60 | 5.93 | 5.87 | - | 199.66 | 203.84 | 222.97 | 217.78 | - |
| Women's and misses' outerwear .............................. | 233 | 6.06 | 6.08 | 6.27 | 6.25 | - | 213.31 | 214.62 | 221.96 | 217.50 | - |
| Women's and misses' blouses and shirts | 2331 | 5.25 | 5.30 | 5.55 | 5.53 | - | 184.80 | 186.03 | 203.69 | 194.10 | - |
| Women's, juniors', and misses' dresses | 2335 | 6.54 | 6.50 | 6.63 | 6.70 | - | 225.63 | 225.55 | 225.42 | 227.13 | - |
| Women's and misses' suits and coats . | 2337 | 6.56 | 6.56 | 7.07 | 7.01 | - | 240.10 | 241.41 | 249.57 | 246.75 | - |
| Women's and misses' outerwear, nec ..................... | 2339 | 5.95 | 5.99 | 6.11 | 6.06 | - | 208.85 | 211.45 | 218.13 | 212.10 | - |
| Women's and children's undergarments ................... | 234 | 5.92 | 5.90 | 6.21 | 6.17 | - | 218.45 | 221.25 | 234.12 | 225.82 | - |
| Women's and children's underwear | 2341 | 5.80 | 5.80 | 6.06 | 6.05 | - | 218.08 | 220.98 | 232.70 | 224.46 | - |
| Brassieres, girdles, and allied garments .................. | 2342 | 6.64 | 6.47 | 7.02 | 6.87 | - | 221.11 | 221.92 | 242.19 | 232.21 | - |
| Girl's and children's outerwear ........ | 236 | 5.66 | 5.68 | 5.93 | 5.98 | - | 210.55 | 210.16 | 217.63 | 215.88 | - |
| Girl's and children's dresses and blouses | 2361 | 5.70 | 5.66 | 5.74 | 5.73 | - | 208.62 | 204.33 | 206.64 | 200.55 | - |
| Misc. apparel and accessories | 238 | 6.05 | 6.21 | 6.32 | 6.40 | - | 230.51 | 235.98 | 235.10 | 231.68 | - |
| Misc. fabricated textile products ............................... | 239 | 7.49 | 7.58 | 8.04 | 7.84 | - | 285.37 | 299.41 | 314.36 | 297.92 | - |
| Curtains and draperies . | 2391 | 6.34 | 6.35 | 6.53 | 6.53 | - | 221.90 | 235.59 | 243.57 | 225.94 | - |
| House furnishings, nec ......................................... | 2392 | 6.49 | 6.50 | 6.70 | 6.65 | - | 256.36 | 261.30 | 257.28 | 253.37 | - |
| Automotive and apparel trimmings ........................, | 2396 | 11.06 | 11.30 | 11.63 | 10.97 | - | 416.96 | 457.65 | 475.67 | 437.70 | - |

See footnotes at end of table.

## C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{gathered} \text { Aug. } \\ 1990^{\mathrm{p}} \end{gathered}$ |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Paper and allied products .......................................... | 26 | 43.0 | 43.2 | 43.4 | 43.2 | 43.4 | 4.6 | 4.5 | 4.6 | 4.8 | - |
| Paper mills .............................................................. | 262 | 45.0 | 45.0 | 45.2 | 44.7 | - | 4.3 | 4.2 | 5.0 | 5.1 | - |
| Paperboard mills | 263 | 44.7 | 44.8 | 45.5 | 46.1 | - | 7.6 | 7.2 | 6.6 | 7.1 | - |
| Paperboard containers and boxes ............................ | 265 | 42.5 | 42.9 | 42.9 | 42.3 | - | 4.8 | 4.7 | 4.7 | 4.6 | - |
| Corrugated and solid fiber boxes ........................... | 2653 | 43.2 | 43.7 | 43.3 | 42.7 | - | 5.2 | 5.2 | 5.1 | 5.0 | - |
| Sanitary food containers ............ | 2656 | 43.6 | 41.9 | 44.5 | 44.4 | - | 5.6 | 4.2 | 4.8 | 5.0 | - |
| Folding paperboard boxes ..................................... | 2657 | 41.7 | 42.4 | 42.4 | 41.8 | - | 4.5 | 4.4 | 4.6 | 4.6 | - |
| Misc. converted paper products ............................... | 267 | 41.6 | 42.0 | 41.9 | 42.0 | - | 4.0 | 4.0 | 3.7 | 4.0 | - |
| Paper, coated and laminated, nec | 2672 | 43.2 | 42.9 | 43.1 | 43.4 | - | 3.4 | 3.2 | 3.8 | 3.6 | - |
| Bags: plastics, laminated, and coated ................... | 2673 | 41.6 | 41.4 | 41.6 | 41.4 | - | 4.7 | 4.6 | 4.7 | 5.0 | - |
| Envelopes | 2677 | 39.6 | 41.2 | 41.8 | 41.1 | - | 2.4 | 3.3 | 3.1 | 3.3 | - |
| Printing and publishing ............................................. | 27 | 37.5 | 37.9 | 37.6 | 37.6 | 38.2 | 2.7 | 3.0 | 2.6 | 2.7 | - |
| Newspapers ........................................................... | 271 | 33.1 | 33.2 | 33.0 | 33.0 | - | 1.2 | 1.3 | 1.2 | 1.2 | - |
| Periodicals | 272 | 37.1 | 37.9 | 37.2 | 37.1 | - | 2.3 | 2.9 | 2.5 | 2.5 | - |
| Books | 273 | 38.8 | 39.3 | 37.9 | 39.1 | - | 2.8 | 3.1 | 2.2 | 2.7 | - |
| Book publishing .................................................... | 2731 | 38.1 | 38.5 | 37.9 | 38.4 | - | 2.2 | 2.2 | 1.7 | 1.8 | - |
| Book printing .... | 2732 | 39.7 | 40.4 | 37.8 | 40.0 | - | 3.7 | 4.3 | 2.8 | 3.8 | - |
| Miscellaneous publishing | 274 | 36.4 | 36.2 | 36.5 | 36.5 | - | 1.9 | 1.8 | 1.7 | 1.7 | - |
| Commercial printing ........ | 275 | 38.8 | 39.5 | 39.0 | 38.8 | - | 3.2 | 3.7 | 3.1 | 3.2 | _ |
| Commercial printing, lithographic ........................... | 2752 | 38.6 | 39.3 | 38.5 | 38.4 | - | 3.2 | 3.8 | 3.1 | 3.2 | - |
| Commercial printing, nec . | 2759 | 39.0 | 39.5 | 39.9 | 39.5 | - | 3.0 | 3.2 | 3.1 | 3.1 | - |
| Manifold business forms ... | 276 | 41.3 | 40.9 | 42.0 | 41.3 | - | 4.0 | 3.8 | 3.7 | 3.5 | - |
| Blankbooks and bookbinding | 278 | 37.8 | 37.4 | 37.7 | 37.5 | - | 2.8 | 2.8 | 2.0 | 2.4 | - |
| Printing trade services ............................................ | 279 | 38.8 | 39.3 | 38.9 | 39.3 | - | 4.0 | 4.3 | 3.7 | 4.4 | - |
| Chemicais and allied products ................................... | 28 | 42.2 | 42.1 | 42.6 | 42.0 | 42.2 | 4.3 | 4.3 | 4.4 | 4.3 | - |
| Industrial inorganic chemicals ................................... | 281 | 42.8 | 42.8 | 42.4 | 42.9 | - | 4.5 | 4.5 | 4.3 | 4.7 | - |
| Industrial inorganic chemicals, nec ........................ | 2819 | 42.3 | 42.1 | 42.2 | 42.8 | - | 4.3 | 4.3 | 4.1 | 4.7 | - |
| Plastics materials and synthetics ............................. | 282 | 43.4 | 42.6 | 42.7 | 42.1 | - | 5.2 | 4.8 | 5.1 | 4.7 | - |
| Plastics materials and resins ................................. | 2821 | 43.6 | 43.1 | 44.3 | 43.9 | - | 5.2 | 5.2 | 5.6 | 5.6 | - |
| Organic fibers, noncellulosic | 2824 | 43.6 | 42.5 | 41.1 | 40.1 | - | 5.2 | 4.4 | 4.5 | 3.7 | - |
| Drugs ..................................................................... | 283 | 40.7 | 41.2 | 41.8 | 41.0 | - | 3.2 | 3.6 | 3.6 | 3.6 | - |
| Pharmaceutical preparations .................................. | 2834 | 40.3 | 41.1 | 41.8 | 41.1 | - | 3.1 | 3.6 | 3.6 | 3.5 | - |
| Soap, cleaners, and toilet goods | 284 | 39.4 | 39.8 | 41.3 | 40.1 | - | 2.8 | 3.0 | 3.5 | 2.9 | - |
| Soap and other detergents ................................... | 2841 | 42.2 | 41.9 | 43.4 | 42.3 | - | 5.1 | 4.9 | 5.5 | 4.9 | - |
| Polishing, sanitation, and finishing preparations ....... | 2842,3 | 40.6 | 41.0 | 42.0 | 41.2 | - | 3.0 | 3.0 | 3.3 | 3.2 | - |
| Toilet preparations | 2844 | 37.2 | 38.2 | 39.7 | 38.1 | - | 1.5 | 2.0 | 2.4 | 1.6 | - |
| Paints and allied products ....................................... | 285 | 41.4 | 41.7 | 42.3 | 42.2 | - | 3.9 | 4.0 | 4.1 | 4.0 | - |
| Industrial organic chemicals ..................................... | 286 | 44.8 | 44.1 | 45.0 | 45.3 | - | 5.9 | 5.6 | 5.5 | 6.0 | - |
| Cyclic crudes and intermediates ............................. | 2865 | 43.5 | 44.3 | 44.2 | 44.3 | - | 5.9 | 6.2 | 5.6 | 5.4 | - |
| Industrial organic chemicals, nec | 2869 | 45.3 | 44.1 | 45.3 | 45.7 | - | 6.1 | 5.6 | 5.6 | 6.2 | - |
| Agricultural chemicals | 287 | 43.4 | 42.7 | 43.9 | 42.9 | - | 4.6 | 4.5 | 5.0 | 4.2 | - |
| Miscellaneous chemical products ............................. | 289 | 42.5 | 42.5 | 42.3 | 40.7 | - | 4.0 | 4.1 | 4.2 | 4.1 | - |
| Petroleum and coal products ..................................... | 29 | 44.4 | 43.8 | 46.8 | 44.2 | 43.7 | 5.7 | 5.8 | 6.5 | 6.0 | - |
| Petroleum refining | 291 | 44.2 | 42.9 | 46.9 | 43.9 | - | 5.0 | 4.9 | 5.9 | 5.3 | - |
| Asphalt paving and roofing materials ........................ | 295 | 46.3 | 47.6 | 48.1 | 46.4 | - | 8.9 | 9.8 | 9.7 | 9.1 | - |
| Rubber and misc. plastics products ............................ | 30 | 40.7 | 41.0 | 41.7 | 40.9 | 40.9 | 3.6 | 3.7 | 3.9 | 3.7 | - |
| Tires and inner tubes ............................................... | 301 | 42.7 | 43.0 | 43.2 | 43.1 | - | 5.2 | 5.5 | 5.0 | 5.1 | - |
| Rubber and plastics footwear ................................... | 302 | 42.0 | 40.2 | 40.8 | 40.8 | - | 2.7 | 2.9 | 1.9 | 3.6 | - |
| Hose, belting, gaskets, and packing ......................... | 305 | 41.0 | 41.1 | 43.0 | 42.0 | - | 3.1 | 2.7 | 3.8 | 3.7 | - |
| Rubber and plastics hose and belting .................... | 3052 | 42.1 | 41.6 | 43.0 | 41.8 | - | 3.8 | 3.3 | 3.7 | 3.8 | - |
| Fabricated rubber products, nec .............................. | 306 | 39.9 | 40.6 | 41.9 | 40.5 | - | 2.8 | 3.1 | 3.7 | 3.0 | - |
| Miscellaneous plastics products, nec ......................... | 308 | 40.5 | 40.8 | 41.4 | 40.6 | - | 3.6 | 3.6 | 3.8 | 3.6 | - |
| Leather and leather products ..................................... | 31 | 37.8 | 38.4 | 38.2 | 37.3 | 37.9 | 1.9 | 2.0 | 1.9 | 1.7 | - |
| Leather tanning and finishing ................................... | 311 | 40.1 | 42.0 | 41.8 | 39.8 | - | 4.2 | 4.8 | 4.5 | 3.5 | - |
| Footwear, except rubber ......................................... | 314 | 37.6 | 37.7 | 37.6 | 36.9 | - | 1.5 | 1.5 | 1.4 | 1.4 | - |
| Men's footwear, except athletic ............................. | 3143 | 37.6 | 37.8 | 37.4 | 36.5 | - | 1.0 | 1.0 | 1.2 | 1.0 | - |
| Women's footwear, except athletic ........................ | 3144 | 37.8 | 37.7 | 37.7 | 37.7 | - | 2.2 | 2.1 | 1.5 | 1.8 | - |
| Luggage ................................................................. | 316 | 39.5 | 40.6 | 39.9 | 40.1 | - | 3.2 | 2.5 | 2.9 | 2.7 | - |
| Handbags and personal leather goods ..................................................... | 317 | 36.3 | 37.9 | 36.9 | 36.3 | - | 1.5 | 2.0 | 1.6 | 1.3 | - |

See footnotes at end of table

# ESTABLISHMENT DATA <br> HOURS AND EARNINGS NOT SEASONALLY ADJUSTED 

C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed
industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Paper and allied products .. | 26 | \$12.09 | \$11.95 | \$12.23 | \$12.35 | \$12.30 | \$519.87 | \$516.24 | \$530.78 | \$533.52 | \$533.82 |
| Paper mills | 262 | 14.85 | 14.63 | 14.92 | 15.18 | - | 668.25 | 658.35 | 674.38 | 678.55 | - |
| Paperboard mills | 263 | 14.82 | 14.76 | 14.97 | 15.07 | - | 662.45 | 661.25 | 681.14 | 694.73 | - |
| Paperboard containers and boxes | 265 | 10.21 | 10.15 | 10.40 | 10.44 | - | 433.93 | 435.44 | 446.16 | 441.61 | - |
| Corrugated and solid fiber boxes | 2653 | 10.40 | 10.33 | 10.52 | 10.59 | - | 449.28 | 451.42 | 455.52 | 452.19 | - |
| Sanitary food containers. | 2656 | 10.02 | 10.09 | 9.96 | 10.09 | - | 436.87 | 422.77 | 443.22 | 448.00 | - |
| Folding paperboard boxes | 2657 | 10.39 | 10.34 | 10.75 | 10.68 | - | 433.26 | 438.42 | 455.80 | 446.42 | - |
| Misc. converted paper products | 267 | 10.56 | 10.48 | 10.71 | 10.79 | - | 439.30 | 440.16 | 448.75 | 453.18 | - |
| Paper, coated and laminated, nec .......................... | 2672 | 11.60 | 11.55 | 11.97 | 12.03 | - | 501.12 | 495.50 | 515.91 | 522.10 | - |
| Bags: plastics, laminated, and coated ................... | 2673 | 9.95 | 9.89 | 9.99 | 10.16 | - | 413.92 | 409.45 | 415.58 | 420.62 | - |
| Envelopes ......................................... | 2677 | 9.85 | 9.81 | 10.07 | 10.22 | - | 390.06 | 404.17 | 420.93 | 420.04 | - |
| Printing and publishing | 27 | 10.85 | 10.91 | 11.16 | 11.26 | 11.30 | 406.88 | 413.49 | 419.62 | 423.38 | 431.66 |
| Newspapers | 271 | 10.88 | 10.83 | 11.27 | 11.28 | - | 360.13 | 359.56 | 371.91 | 372.24 | - |
| Periodicals | 272 | 11.40 | 11.56 | 11.78 | 12.03 | - | 422.94 | 438.12 | 438.22 | 446.31 | - |
| Books | 273 | 9.68 | 9.76 | 9.95 | 10.01 | - | 375.58 | 383.57 | 377.11 | 391.39 | - |
| book publishing | 2731 | 9.25 | 9.31 | 9.62 | 9.75 | - | 352.43 | 358.44 | 364.60 | 374.40 | - |
| Book printing | 2732 | 10.23 | 10.32 | 10.38 | 10.32 | - | 406.13 | 416.93 | 392.36 | 412.80 |  |
| Miscellaneous publishing | 274 | 10.28 | 10.07 | 10.24 | 10.29 | - | 374.19 | 364.53 | 373.76 | 375.59 | - |
| Commercial printing ........ | 275 | 11.08 | 11.18 | 11.44 | 11.55 | - | 429.90 | 441.61 | 446.16 | 448.14 | - |
| Commercial printing, lithographic | 2752 | 11.24 | 11.35 | 11.53 | 11.65 | - | 433.86 | 446.06 | 443.91 | 447.36 | - |
| Commercial printing, nec | 2759 | 10.70 | 10.78 | 11.21 | 11.32 | - | 417.30 | 425.81 | 447.28 | 447.14 | - |
| Manifold business forms | 276 | 11.43 | 11.41 | 11.62 | 11.77 | - | 472.06 | 466.67 | 488.04 | 486.10 | - |
| Blankbooks and bookbinding | 278 | 8.63 | 8.68 | 8.60 | 8.75 | - | 326.21 | 324.63 | 324.22 | 328.13 | - |
| Printing trade services | 279 | 13.30 | 13.30 | 13.62 | 13.74 | - | 516.04 | 522.69 | 529.82 | 539.98 | - |
| Chemicals and allied products | 28 | 13.15 | 13.10 | 13.51 | 13.59 | 13.56 | 554.93 | 551.51 | 575.53 | 570.78 | 572.23 |
| Industrial inorganic chemicals | 281 | 14.22 | 14.29 | 14.57 | 14.72 | - | 608.62 | 611.61 | 617.77 | 631.49 | - |
| Industrial inorganic chemicals, nec | 2819 | 14.28 | 14.39 | 14.61 | 14.81 | - | 604.04 | 605.82 | 616.54 | 633.87 | - |
| Plastics materials and synthetics | 282 | 13.49 | 13.44 | 13.99 | 13.98 | - | 585.47 | 572.54 | 597.37 | 588.56 | - |
| Plastics materials and resins | 2821 | 14.38 | 14.37 | 14.77 | 14.84 | - | 626.97 | 619.35 | 654.31 | 651.48 | - |
| Organic fibers, noncellulosic | 2824 | 12.80 | 12.71 | 13.33 | 13.31 | - | 558.08 | 540.18 | 547.86 | 533.73 | - |
| Drugs | 283 | 12.44 | 12.50 | 12.83 | 12.90 | - | 506.31 | 515.00 | 536.29 | 528.90 | - |
| Pharmaceutical preparations | 2834 | 12.39 | 12.48 | 12.84 | 12.86 | - | 499.32 | 512.93 | 536.71 | 528.55 | - |
| Soap, cleaners, and toilet goods | 284 | 11.33 | 11.18 | 11.83 | 11.83 | - | 446.40 | 444.96 | 488.58 | 474.38 | - |
| Soap and other detergents | 2841 | 15.23 | 15.22 | 15.81 | 15.68 | - | 642.71 | 637.72 | 686.15 | 663.26 | - |
| Polishing, sanitation, and finishing preparations | 2842,3 | 10.32 | 10.30 | 10.41 | 10.42 | - | 418.99 | 422.30 | 437.22 | 429.30 | - |
| Toilet preparations | 2844 | 9.42 | 9.29 | 9.98 | 9.96 | - | 350.42 | 354.88 | 396.21 | 379.48 | - |
| Paints and allied products | 285 | 11.63 | 11.70 | 12.00 | 12.05 | - | 481.48 | 487.89 | 507.60 | 508.51 | - |
| Industrial organic chemicals | 286 | 15.86 | 15.67 | 15.98 | 16.03 | - | 710.53 | 691.05 | 719.10 | 726.16 | - |
| Cyclic crudes and intermediates | 2865 | 15.72 | 15.68 | 16.02 | 15.97 | - | 683.82 | 694.62 | 708.08 | 707.47 | - |
| Industrial organic chemicals, nec | 2869 | 16.11 | 15.87 | 16.15 | 16.21 | - | 729.78 | 699.87 | 731.60 | 740.80 | - |
| Agricultural chemicals ................. | 287 | 12.78 | 12.98 | 13.48 | 13.56 | - | 554.65 | 554.25 | 591.77 | 581.72 | - |
| Miscellaneous chemical products | 289 | 11.95 | 11.99 | 12.33 | 12.41 | - | 507.88 | 509.58 | 521.56 | 505.09 | - |
| Petroleum and coal products | 29 | 15.31 | 15.20 | 16.23 | 16.23 | 15.77 | 679.76 | 665.76 | 759.56 | 717.37 | 689.15 |
| Petroleum refining ... | 291 | 16.56 | 16.45 | 17.63 | 17.59 | - | 731.95 | 705.71 | 826.85 | 772.20 | - |
| Asphalt paving and roofing materials | 295 | 12.25 | 12.38 | 12.84 | 13.08 | - | 567.18 | 589.29 | 617.60 | 606.91 | - |
| Rubber and misc. plastics products | 30 | 9.50 | 9.47 | 9.77 | 9.87 | 9.84 | 386.65 | 388.27 | 407.41 | 403.68 | 402.46 |
| Tires and inner tubes | 301 | 14.99 | 15.06 | 15.40 | 15.53 | - | 640.07 | 647.58 | 665.28 | 669.34 | - |
| Rubber and plastics footwear | 302 | 6.51 | 6.54 | 6.63 | 6.83 | - | 273.42 | 262.91 | 270.50 | 278.66 | - |
| Hose, belting, gaskets, and packing | 305 | 9.21 | 9.19 | 9.68 | 9.72 | - | 377.61 | 377.71 | 416.24 | 408.24 | - |
| Rubber and plastics hose and belting | 3052 | 9.61 | 9.55 | 9.90 | 9.96 | - | 404.58 | 397.28 | 425.70 | 416.33 | - |
| Fabricated rubber products, nec... | 306 | 9.03 | 9.03 | 9.38 | 9.44 | - | 360.30 | 366.62 | 393.02 | 382.32 | - |
| Miscellaneous plastics products, nec.. | 308 | 8.89 | 8.84 | 9.16 | 9.23 | - | 360.05 | 360.67 | 379.22 | 374.74 | - |
| Leather and leather products ..................................... | 31 | 6.55 | 6.55 | 6.91 | 6.79 | 6.89 | 247.59 | 251.52 | 263.96 | 253.27 | 261.13 |
| Leather tanning and finishing ................................... | 311 | 8.73 | 8.81 | 9.06 | 8.80 | - | 350.07 | 370.02 | 378.71 | 350.24 | - |
| Footwear, except rubber | 314 | 6.21 | 6.23 | 6.57 | 6.53 | - | 233.50 | 234.87 | 247.03 | 240.96 | - |
| Men's footwear, except athletic | 3143 | 6.68 | 6.66 | 7.12 | 7.06 | - | 251.17 | 251.75 | 266.29 | 257.69 | - |
| Women's footwear, except athletic | 3144 | 5.86 | 5.95 | 6.06 | 6.11 | - | 221.51 | 224.32 | 228.46 | 230.35 | - |
| Luggage .................. | 316 | 6.56 | 6.48 | 7.01 | 6.70 | - | 259.12 | 263.09 | 279.70 | 268.67 | - |
| Handbags and personal leather goods | 317 | 6.10 | 5.98 | 6.19 | 6.10 | - | 221.43 | 226.64 | 228.41 | 221.43 | - |

See footnotes at end of table.

## ESTABLISHMENT DATA <br> HOURS AND EARNINGS <br> NOT SEASONALLY ADJUSTED

C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed
industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Transportation and public utilities ............................... |  | 39.3 | 38.9 | 39.4 | 39.4 | 39.4 | - | - | - | - | - |
| Railroad transportation: <br> Class I railroads ${ }^{3}$ | 4011 | 44.1 | 42.6 | 47.6 | 47.1 | - | - | - | - | - | - |
| Local and interurban passenger transit ......................... | 41 | 36.3 | 35.8 | 33.7 | 35.5 | - | - | - | - | - | - |
| Local and suburban transportation .............................. | 411 | 39.0 | 38.9 | 38.7 | 38.3 | - | - | - | - | - | - |
| Intercity and rural bus transportation .......................... | 413 | 40.2 | 40.4 | 37.8 | 39.8 | - | - | - | - | - | - |
| Trucking and warehousing ........................................... | 42 | 38.6 | 38.7 | 39.1 | 39.0 | - | - | - | - | - | - |
| Trucking and courier services, except air .................... | 421 | 38.6 | 38.7 | 39.1 | 39.0 | - | - | - | - | - | - |
| Public warehousing and storage ................................. | 422 | 38.5 | 38.7 | 39.3 | 39.1 | - | - | - | - | - | - |
| Pipelines, except natural gas ....................................... | 46 | 41.2 | 40.1 | 42.3 | 41.5 | - | - | - | - | - | - |
| Transportation services: Freight transportation arrangement | 473 | 37.8 | 37.5 | 37.5 | 38.0 | - | - | - | - | - | - |
| Communications .......................................................... | 48 | 40.1 | 39.3 | 39.7 | 39.5 | - | - | - | - | - | - |
| Telephone communications ....................................... | 481 | 41.8 | 41.0 | 41.4 | 40.9 | - | - | - | - | - | - |
| Radio and television broadcasting .............................. | 483 | 35.5 | 35.0 | 34.6 | 35.2 | - | - | - | - | - | - |
| Cable and other pay television services | 484 | 37.6 | 37.8 | 38.5 | 38.7 | - | - | - | - | - | - |
| Electric, gas, and sanitary services ............................... | 49 | 41.9 | 41.7 | 41.7 | 41.6 | - | - | - | - | - | - |
| Electric services | 491 | 42.4 | 41.8 | 41.8 | 41.7 | - | - | - | - | - | - |
| Gas production and distribution ................................. | 492 | 41.2 | 41.5 | 41.7 | 41.6 | - | - | - | - | - | - |
| Combination utility services ....................................... | 493 | 41.8 | 41.6 | 41.9 | 41.6 | - | - | - | - | - | - |
| Sanitary services ....................................................... | 495 | 42.0 | 42.2 | 42.1 | 42.1 | - | - | - | - | - | - |
| Wholesale trade .......................................................... |  | 38.2 | 38.0 | 38.2 | 38.3 | 38.0 | - | - | - | - | - |
| Durable goods ............................................................. | 50 | 38.6 | 38.5 | 38.7 | 38.8 | - | - | - | - | - | - |
| Motor vehicles, parts, and supplies ............................ | 501 | 37.7 | 37.5 | 38.2 | 38.3 | - | - | - | - | - | - |
| Furniture and home furnishings .................................. | 502 | 37.3 | 37.2 | 37.2 | 37.1 | - | - | - | - | - | - |
| Lumber and other construction materials ..................... | 503 | 40.0 | 39.9 | 40.0 | 40.0 | - | - | - | - | - | - |
| Professional and commercial equipment ..................... | 504 | 38.8 | 38.5 | 38.9 | 38.9 | - | - | - | - | - | - |
| Metals and minerals, except petroleum ....................... | 505 | 39.9 | 40.2 | 40.1 | 39.8 | - | - | - | - | - | - |
| Electrical goods ........................................................ | 506 | 38.4 | 38.0 | 38.6 | 38.6 | - | - | - | - | - | - |
| Hardware, plumbing, and heating equipment ................ | 507 | 39.2 | 38.9 | 38.8 | 39.1 | - | - | - | - | - | - |
| Machinery, equipment, and supplies ........................... | 508 | 39.1 | 39.0 | 39.1 | 39.2 | - | - | - | - | - | - |
| Misc. wholesale trade durable goods ........................... | 509 | 37.3 | 37.4 | 37.2 | 37.0 | - | - | - | - | - | - |
| Nondurable goods ...................................................... | 51 | 37.6 | 37.4 | 37.6 | 37.7 | - | - | - | - | - | - |
| Paper and paper products ......................................... | 511 | 36.9 | 36.9 | 37.8 | 37.7 | - | - | - | - | - | - |
| Drugs, proprietaries, and sundries .............................. | 512 | 37.5 | 37.7 | 37.0 | 37.6 | - | - | - | - | - | - |
| Apparel, piece goods, and notions ............................. | 513 | 36.5 | 37.0 | 36.5 | 36.8 | - | - | - | - | - | - |
| Groceries and related products .................................. | 514 | 38.3 | 38.0 | 38.1 | 38.2 | - | - | - | - | - | - |
| Chemicals and allied products .................................... | 516 | 40.4 | 40.2 | 40.3 | 40.2 | - | - | - | - | - | - |
| Petroleum and petroleum products ............................. | 517 | 38.8 | 38.2 | 38.5 | 38.6 | - | - | - | - | - | - |
| Beer, wine, and distilled beverages ............................ | 518 | 36.5 | 36.5 | 36.9 | 37.2 | - | - | - | - | - | - |
| Misc. wholesale trade nondurable goods ..................... | 519 | 36.9 | 36.6 | 37.0 | 36.9 | - | - | - | - | - | - |
| Retall trade ...................................................................... |  | 29.8 | 29.6 | 29.3 | 29.7 | 29.4 | - | - | - | - | - |
| Building materials and garden supplies .......................... | 52 | 37.2 | 37.0 | 36.8 | 36.9 | - | - | - | - | - | - |
| Lumber and other building materials | 521 | 39.0 | 38.8 | 38.5 | 38.7 | - | - | - | - | - | - |
| Hardware stores | 525 | 33.4 | 33.2 | 32.8 | 33.2 | - | - | - | - | - | - |
| General merchandise stores ........................................ | 53 | 28.5 | 28.4 | 28.6 | 29.3 | - | - | - | - | - | - |
| Department stores .................................................... | 531 | 28.4 | 28.2 | 28.5 | 29.3 | - | - | - | - | - | - |
| Variety stores ........................................................... | 533 | 28.6 | 28.7 | 28.7 | 29.0 | - | - | - | - | - | - |
| Misc. general merchandise stores .............................. | 539 | 29.5 | 29.3 | 29.1 | 29.9 | - | - | - | - | - | - |

See footnotes at end of table.

# ESTABLISHMENT DATA <br> HOURS AND EARNINGS NOT SEASONALLY ADJUSTED 

## C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { Aug. } \\ 1990^{\circ} \end{gathered}$ |
| Transportation and public utilities ............................... |  | \$12.63 | \$12.61 | \$12.86 | \$12.96 | \$12.95 | \$496.36 | \$490.53 | \$506.68 | \$510.62 | \$510.23 |
| Railroad transportation: <br> Class I railroads ${ }^{3}$ $\qquad$ | 4011 | 15.45 | 16.07 | 15.93 | 15.90 | - | 681.35 | 684.58 | 758.27 | 748.89 | - |
| Local and interurban passenger transit | 41 | 9.06 | 9.10 | 9.03 | 9.12 | - | 328.88 | 325.78 | 304.31 | 323.76 | - |
| Local and suburban transportation .............................. | 411 | 9.74 | 9.67 | 9.81 | 9.81 | - | 379.86 | 376.16 | 379.65 | 375.72 | - |
| Intercity and rural bus transportation .......................... | 413 | 11.66 | 11.82 | 11.06 | 11.20 | - | 468.73 | 477.53 | 418.07 | 445.76 | - |
| Trucking and warehousing | 42 | 11.32 | 11.40 | 11.67 | 11.65 | - | 436.95 | 441.18 | 456.30 | 454.35 | - |
| Trucking and courier services, except air ..................... | 421 | 11.46 | 11.56 | 11.81 | 11.79 | - | 442.36 | 447.37 | 461.77 | 459.81 | - |
| Public warehousing and storage ................................. | 422 | 9.22 | 9.14 | 9.57 | 9.62 | - | 354.97 | 353.72 | 376.10 | 376.14 | - |
| Pipelines, except natural gas | 46 | 15.94 | 15.77 | 16.97 | 16.89 | - | 656.73 | 632.38 | 717.83 | 700.94 | - |
| Transportation services: <br> Freight transportation arrangement $\qquad$ | 473 | 11.63 | 11.46 | 12.11 | 12.22 | - | 439.61 | 429.75 | 454.13 | 464.36 | - |
| Communications | 48 | 13.21 | 13.09 | 13.45 | 13.57 | - | 529.72 | 514.44 | 533.97 | 536.02 | - |
| Telephone communications | 481 | 13.91 | 13.79 | 14.11 | 14.24 | - | 581.44 | 565.39 | 584.15 | 582.42 | - |
| Radio and television broadcasting | 483 | 12.06 | 12.22 | 12.54 | 12.77 | - | 428.13 | 427.70 | 433.88 | 449.50 | - |
| Cable and other pay television services ...................... | 484 | 10.14 | 10.24 | 10.46 | 10.49 | - | 381.26 | 387.07 | 402.71 | 405.96 | - |
| Electric, gas, and sanitary services ............................... | 49 | 14.75 | 14.59 | 15.04 | 15.23 | - | 618.03 | 608.40 | 627.17 | 633.57 | - |
| Electric services ....................................................... | 491 | 15.12 | 15.00 | 15.69 | 15.92 | - | 641.09 | 627.00 | 655.84 | 663.86 | - |
| Gas production and distribution .................................. | 492 | 13.81 | 13.60 | 14.03 | 14.26 | - | 568.97 | 564.40 | 585.05 | 593.22 | - |
| Combination utility services | 493 | 17.37 | 17.10 | 17.03 | 17.30 | - | 726.07 | 711.36 | 713.56 | 719.68 | - |
| Sanitary services .. | 495 | 11.09 | 11.09 | 11.53 | 11.51 | - | 465.78 | 468.00 | 485.41 | 484.57 | - |
| Wholesale trade ........................................................... |  | 10.41 | 10.36 | 10.76 | 10.83 | 10.75 | 397.66 | 393.68 | 411.03 | 414.79 | 408.50 |
| Durable goods | 50 | 10.67 | 10.63 | 11.10 | 11.18 | - | 411.86 | 409.26 | 429.57 | 433.78 | - |
| Motor vehicles, parts, and supplies | 501 | 9.52 | 9.54 | 9.98 | 10.01 | - | 358.90 | 357.75 | 381.24 | 383.38 | - |
| Furniture and home furnishings | 502 | 9.82 | 9.80 | 10.16 | 10.19 | - | 366.29 | 364.56 | 377.95 | 378.05 | - |
| Lumber and other construction materials | 503 | 10.06 | 10.05 | 10.41 | 10.43 | - | 402.40 | 401.00 | 416.40 | 417.20 | - |
| Professional and commercial equipment ...................... | 504 | 12.28 | 12.31 | 13.01 | 13.16 | - | 476.46 | 473.94 | 506.09 | 511.92 | - |
| Metals and minerals, except petroleum | 505 | 10.96 | 10.88 | 11.27 | 11.34 | - | 437.30 | 437.38 | 451.93 | 451.33 | - |
| Electrical goods ........................................................ | 506 | 11.18 | 11.02 | 11.37 | 11.39 | - | 429.31 | 418.76 | 438.88 | 439.65 | - |
| Hardware, plumbing, and heating equipment ................ | 507 | 10.13 | 10.03 | 10.49 | 10.60 | - | 397.10 | 390.17 | 407.01 | 414.46 | - |
| Machinery, equipment, and supplies ........................... | 508 | 10.74 | 10.68 | 11.09 | 11.17 | - | 419.93 | 416.52 | 433.62 | 437.86 | - |
| Misc. wholesale trade durable goods .......................... | 509 | 8.45 | 8.40 | 8.81 | 8.86 | - | 315.19 | 314.16 | 327.73 | 327.82 | - |
| Nondurable goods ....................................................... | 51 | 10.01 | 9.98 | 10.25 | 10.31 | - | 376.38 | 373.25 | 385.40 | 388.69 | - |
| Paper and paper products | 511 | 10.65 | 10.59 | 10.95 | 10.97 | - | 392.99 | 390.77 | 413.91 | 413.57 | - |
| Drugs, proprietaries, and sundries ............................... | 512 | 11.45 | 11.37 | 11.94 | 11.82 | - | 429.38 | 428.65 | 441.78 | 444.43 | - |
| Apparel, piece goods, and notions | 513 | 9.84 | 9.77 | 9.96 | 9.99 | - | 359.16 | 361.49 | 363.54 | 367.63 | - |
| Groceries and related products | 514 | 10.22 | 10.18 | 10.40 | 10.52 | - | 391.43 | 386.84 | 396.24 | 401.86 | - |
| Chemicals and allied products | 516 | 12.41 | 12.50 | 12.47 | 12.50 | - | 501.36 | 502.50 | 502.54 | 502.50 | - |
| Petroleum and petroleum products ............................. | 517 | 9.94 | 9.91 | 10.31 | 10.20 | - | 385.67 | 378.56 | 396.94 | 393.72 | - |
| Beer, wine, and distilled beverages. | 518 | 11.72 | 11.72 | 12.03 | 12.18 | - | 427.78 | 427.78 | 443.91 | 453.10 | - |
| Misc. wholesale trade nondurable goods .................... | 519 | 8.23 | 8.25 | 8.53 | 8.63 | - | 303.69 | 301.95 | 315.61 | 318.45 | - |
| Retail trade .................................................................. |  | 6.48 | 6.49 | 6.75 | 6.74 | 6.75 | 193.10 | 192.10 | 197.78 | 200.18 | 198.45 |
| Building materials and garden supplies ......................... | 52 | 7.71 | 7.71 | 7.92 | 7.94 | - | 286.81 | 285.27 | 291.46 | 292.99 | - |
| Lumber and other building materials ........................... | 521 | 8.05 | 8.04 | 8.29 | 8.29 | - | 313.95 | 311.95 | 319.17 | 320.82 | - |
| Hardware stores | 525 | 6.40 | 6.43 | 6.67 | 6.75 | - | 213.76 | 213.48 | 218.78 | 224.10 | - |
| General merchandise stores ........................................ | 53 | 6.60 | 6.62 | 6.80 | 6.77 | - | 188.10 | 188.01 | 194.48 | 198.36 | - |
| Department stores ..................................................... | 531 | 6.80 | 6.83 | 6.97 | 6.93 | - | 193.12 | 192.61 | 198.65 | 203.05 | - |
| Variety stores ............................................................ | 533 | 5.28 | 5.26 | 5.63 | 5.63 | - | 151.01 | 150.96 | 161.58 | 163.27 | - |
| Misc. general merchandise stores .............................. | 539 | 5.93 | 5.93 | 6.27 | 6.35 | - | 174.94 | 173.75 | 182.46 | 189.87 | - |

See footnotes at end of table.

ESTABLISHMENT DATA
HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED
C-2. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Retail trade-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Food stores ................................................................ | 54 | 31.1 | 30.7 | 30.4 | 30.8 | - | - | - | - | - | - |
| Grocery stores | 541 | 31.3 | 30.9 | 30.6 | 31.0 | - | - | - | - | - | - |
| Retail bakeries .......................................................... | 546 | 29.9 | 29.7 | 29.1 | 29.5 | - | - | - | - | - | - |
| Automotive dealers and service stations ........................ | 55 | 36.6 | 36.5 | 36.5 | 36.6 | - | - | - | - | - | - |
| New and used car dealers | 551 | 37.3 | 37.1 | 37.3 | 37.3 | - | - | - | - | - | - |
| Auto and home supply stores .................................... | 553 | 38.6 | 38.8 | 38.6 | 38.9 | - | - | - | - | - | - |
| Gasoline service stations ........................................... | 554 | 34.8 | 34.5 | 34.3 | 34.5 | - | - | - | - | - | - |
| Automotive dealers, nec ............................................. | 559 | 36.5 | 36.2 | 35.2 | 35.8 | - | - | - | - | - | - |
| Apparel and accessory stores ...................................... | 56 | 27.8 | 27.8 | 27.5 | 27.9 | - | - | - | - | - | - |
| Men's and boys' clothing stores ................................. | 561 | 29.5 | 29.0 | 29.2 | 29.6 | - | - | - | - | - | - |
| Women's clothing stores ............................................ | 562 | 25.7 | 25.6 | 24.4 | 24.7 | - | - | - | - | - | - |
| Family clothing stores ................................................ | 565 | 27.8 | 27.5 | 27.6 | 28.2 | - | - | - | - | - | - |
| Shoe stores .............................................................. | 566 | 29.9 | 30.1 | 31.0 | 31.2 | - | - | - | - | - | - |
| Furniture and home furnishings stores .......................... | 57 | 33.7 | 33.4 | 33.1 | 33.4 | - | - | - | - | - | - |
| Furniture and home furnishings stores ........................ | 571 | 33.9 | 33.8 | 33.7 | 34.0 | - | - | - | - | - | - |
| Household appliance stores ....................................... | 572 | 33.7 | 33.4 | 33.5 | 33.7 | - | - | - | - | - | - |
| Radio, television, and computer stores ....................... | 573 | 33.4 | 32.8 | 32.1 | 32.4 | - | - | - | - | - | - |
| Radio, television, and electronic stores .................... | 5731 | 33.1 | 32.5 | 31.8 | 32.3 | - | - | - | - | - | - |
| Record and prerecorded tape stores ......................... | 5735 | 27.6 | 27.8 | 27.3 | 26.8 | - | - | - | - | - | - |
| Eating and drinking places ${ }^{4}$.......................................... | 58 | 26.6 | 26.3 | 25.7 | 26.3 | - | - | - | - | - | - |
| Misceilaneous retail establishments ............................... | 59 | 30.3 | 30.2 | 29.8 | 30.2 | - | - | - | - | - | - |
| Drug stores and proprietary stores ............................. | 591 | 28.1 | 28.0 | 27.9 | 28.3 | - | - | - | - | - | - |
| Miscellaneous shopping goods stores ......................... | 594 | 29.6 | 29.4 | 28.7 | 29.4 | - | - | - | - | - | - |
| Nonstore retaiers ...................................................... | 596 | 32.5 | 32.9 | 33.1 | 32.9 | - | - | - | - | - | - |
| Fuel dealers ............................................................. | 598 | 38.0 | 37.9 | 37.2 | 37.4 | - | - | - | - | - | - |
| Retail stores, nec ...................................................... | 599 | 31.8 | 31.9 | 31.2 | 31.3 | - | - | - | - | - | - |
| Finance, insurance, and real estate ${ }^{\mathbf{5}}$............................. |  | 36.2 | 35.8 | 35.8 | 36.2 | 35.7 | - | - | - | - | - |
| Depository institutions .................................................. | 60 | 36.2 | 35.6 | 35.5 | 36.2 | - | - | - | - | - | - |
| Commercial banks .................................................... | 602 | 36.3 | 35.5 | 35.3 | 36.0 | - | - | - | - | - | - |
| Credit unions ............................................................. | 606 | 36.2 | 35.9 | 35.8 | 36.3 | - | - | - | - | - | - |
| Nondepository institutions ............................................ | 61 | 38.2 | 37.6 | 37.4 | 38.0 | - | - | - | - | - | - |
| Personal credit institutions .......................................... | 614 | 37.8 | 37.6 | 37.6 | 38.2 | - | - | - | - | - | - |
| Security and commodity brokers: <br> Security and commodity services $\qquad$ | 628 | 37.9 | 37.5 | 37.3 | 37.4 | - | - | - | - | - | - |
| Insurance carriers ........................................................ | 63 | 37.4 | 37.1 | 37.3 | 37.7 | - | - | - | - | - | - |
| Life insurance ........................................................... | 631 | 37.4 | 37.1 | 37.0 | 37.2 | - | - | - | - | - | - |
| Medical service and health insurance .......................... | 632 | 37.6 | 37.6 | 38.2 | 38.5 | - | - | - | - | - | - |
| Fire, marine, and casualty insurance ........................... | 633 | 37.1 | 36.8 | 37.1 | 37.6 | - | - | - | - | - | - |
| Services ....................................................................... |  | 33.0 | 32.8 | 32.7 | 33.0 | 32.9 | - | - | - | - | - |
| Hotels and other lodging places: <br> Hotels and motels ${ }^{4}$ $\qquad$ | 701 | 32.2 | 31.9 | 31.0 | 31.8 | - | - | - | - | - | - |
| Personal services: |  |  |  |  |  |  |  |  |  |  |  |
| Laundry, cleaning, and garment services .................... | 721 | 34.2 | 34.0 | 34.4 | 34.2 | - | - | - | - | - | - |
| Beauty shops ${ }^{4}$........................................................... | 723 | 29.6 | 29.5 | 29.4 | 29.2 | - | - | - | - | - | - |
| Miscellaneous personal services ................................ | 729 | 24.2 | 24.2 | 25.0 | 24.5 | - | - | - | - | - | - |
| Business services ........................................................ | 73 | 33.3 | 33.5 | 33.3 | 33.3 | - | - | - | - | - | - |
| Advertising ................................................................ | 731 | 37.1 | 36.7 | 36.6 | 36.9 | - | - | - | - | - | - |
| Services to buildings ................................................... | 734 | 29.4 | 29.3 | 29.2 | 28.7 | - | - | - | - | - | - |
| Personnel supply services: <br> Help supply services $\qquad$ | 7363 | 30.2 | 31.1 | 31.1 | 30.9 | - | - | - | - | - | - |
| Computer and data processing services ..................... | 737 | 38.0 | 37.8 | 38.0 | 38.2 | - | - | - | - | - | - |
| Miscellaneous business services ................................ | 738 | 35.0 | 34.8 | 34.2 | 34.4 | - | - | - | - | - | - |

See footnotes at end of table.

# ESTABLISHMENT DATA <br> HOURS AND EARNINGS NOT SEASONALLY ADJUSTED 

C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolis by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { Aug. } \\ 1990^{\rho} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1990^{\circ} \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Retall trade-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Food stores | 54 | \$7.06 | \$7.08 | \$7.32 | \$7.30 | - | \$219.57 | \$217.36 | \$222.53 | \$224.84 | - |
| Grocery stores | 541 | 7.15 | 7.17 | 7.41 | 7.39 | - | 223.80 | 221.55 | 226.75 | 229.09 | - |
| Retail bakeries | 546 | 6.02 | 6.02 | 6.35 | 6.28 | - | 180.00 | 178.79 | 184.79 | 185.26 | - |
| Automotive dealers and service stations. | 55 | 8.67 | 8.65 | 9.02 | 9.05 | - | 317.32 | 315.73 | 329.23 | 331.23 | - |
| New and used car dealers .. | 551 | 10.81 | 10.78 | 11.25 | 11.38 | - | 403.21 | 399.94 | 419.63 | 424.47 | - |
| Auto and home supply stores | 553 | 7.60 | 7.58 | 7.83 | 7.77 | - | 293.36 | 294.10 | 302.24 | 302.25 | - |
| Gasoline service stations ....... | 554 | 5.93 | 5.91 | 6.24 | 6.21 | - | 206.36 | 203.90 | 214.03 | 214.25 | - |
| Automotive dealers, nec | 559 | 10.79 | 10.70 | 10.71 | 10.75 | - | 393.84 | 387.34 | 376.99 | 384.85 | - |
| Apparel and accessory stores | 56 | 5.97 | 5.96 | 6.28 | 6.25 | - | 165.97 | 165.69 | 172.70 | 174.38 | - |
| Men's and boys' clothing stores | 561 | 7.38 | 7.31 | 7.73 | 7.75 | - | 217.71 | 211.99 | 225.72 | 229.40 | - |
| Women's clothing stores ......... | 562 | 5.61 | 5.64 | 5.97 | 5.97 | - | 144.18 | 144.38 | 145.67 | 147.46 | - |
| Family clothing stores | 565 | 5.88 | 5.87 | 6.24 | 6.18 | - | 163.46 | 161.43 | 172.22 | 174.28 | - |
| Shoe stores.. | 566 | 6.00 | 5.97 | 6.17 | 6.11 | - | 179.40 | 179.70 | 191.27 | 190.63 | - |
| Furniture and home furnishings stores | 57 | 8.40 | 8.33 | 8.55 | 8.58 | - | 283.08 | 278.22 | 283.01 | 286.57 | - |
| Furniture and home furnishings stores ........................ | 571 | 8.19 | 8.20 | 8.43 | 8.40 | - | 277.64 | 277.16 | 284.09 | 285.60 | - |
| Household appliance stores | 572 | 8.61 | 8.52 | 8.77 | 8.83 | - | 290.16 | 284.57 | 293.80 | 297.57 | - |
| Radio, television, and computer stores | 573 | 8.70 | 8.51 | 8.70 | 8.83 | - | 290.58 | 279.13 | 279.27 | 286.09 | - |
| Radio, television, and electronic stores | 5731 | 8.72 | 8.59 | 8.75 | 8.75 | - | 288.63 | 279.18 | 278.25 | 282.63 | - |
| Record and prerecorded tape stores ......................... | 5735 | 5.07 | 5.02 | 5.06 | 5.57 | - | 139.93 | 139.56 | 138.14 | 149.28 | - |
| Eating and drinking places ${ }^{4}$.......................................... | 58 | 4.72 | 4.74 | 4.96 | 4.96 | - | 125.55 | 124.66 | $12 ? .47$ | 130.45 | - |
| Misceilaneous retail establishments | 59 | 6.79 | 6.77 | 7.10 | 7.12 | - | 205.74 | 204.45 | 211.58 | 215.02 | - |
| Drug stores and proprietary stores | 591 | 6.51 | 6.42 | 6.72 | 6.74 | - | 182.93 | 179.76 | 187.49 | 190.74 | - |
| Miscellaneous shopping goods stores ......................... | 594 | 6.33 | 6.35 | 6.65 | 6.66 | - | 187.37 | 186.69 | 190.86 | 195.80 | - |
| Nonstore retailers ...................................................... | 596 | 7.83 | 7.77 | 8.01 | 8.01 | - | 254.48 | 255.63 | 265.13 | 263.53 | - |
| Fuel dealers | 598 | 9.20 | 9.16 | 9.68 | 9.68 | - | 349.60 | 347.16 | 360.10 | 362.03 | - |
| Retail stores, nec ............................... | 599 | 6.98 | 6.98 | 7.43 | 7.49 | - | 221.96 | 222.66 | 231.82 | 234.44 | - |
| Finance, insurance, and real estate ${ }^{5}$............................. |  | 9.56 | 9.47 | 9.90 | 10.00 | \$9.93 | 346.07 | 339.03 | 354.42 | 362.00 | \$354.50 |
| Depository institutions .................................................. | 60 | 8.17 | 8.08 | 8.47 | 8.52 | - | 295.75 | 287.65 | 300.69 | 308.42 | - |
| Commercial banks .................................................... | 602 | 7.89 | 7.79 | 8.11 | 8.11 | - | 286.41 | 276.55 | 286.28 | 291.96 | - |
| Credit unions | 606 | 7.86 | 7.80 | 8.04 | 8.13 | - | 284.53 | 280.02 | 287.83 | 295.12 | - |
| Nondepository institutions ............................................. | 61 | 9.83 | 9.76 | 10.33 | 10.46 | - | 375.51 | 366.98 | 386.34 | 397.48 | - |
| Personal credit institutions ......................................... | 614 | 8.92 | 8.82 | 9.26 | 9.31 | - | 337.18 | 331.63 | 348.18 | 355.64 | - |
| Security and commodity brokers: <br> Security and commodity services $\qquad$ | 628 | 13.17 | 13.12 | 12.94 | 13.18 | - | 499.14 | 492.00 | 482.66 | 492.93 | - |
| Insurance carriers | 63 | 10.71 | 10.67 | 11.11 | 11.19 | - | 400.55 | 395.86 | 414.40 | 421.86 | - |
| Life insurance. | 631 | 9.94 | 9.95 | 10.34 | 10.36 | - | 371.76 | 369.15 | 382.58 | 385.39 | - |
| Medical service and health insurance | 632 | 10.42 | 10.27 | 10.70 | 10.85 | - | 391.79 | 386.15 | 408.74 | 417.73 | - |
| Fire, marine, and casualty insurance ........................... | 633 | 11.42 | 11.46 | 11.94 | 11.99 | - | 423.68 | 421.73 | 442.97 | 450.82 | - |
| Services ....................................................................... |  | 9.34 | 9.30 | 9.75 | 9.78 | 9.76 | 308.22 | 305.04 | 318.83 | 322.74 | 321.10 |
| Hotels and other lodging places: <br> Hotels and motels ${ }^{4}$ $\qquad$ | 701 | 6.57 | 6.53 | 6.91 | 6.83 | - | 211.55 | 208.31 | 214.21 | 217.19 | - |
| Personal services: |  |  |  |  |  |  |  |  |  |  |  |
| Laundry, cleaning, and garment services ..................... | 721 | 6.61 | 6.61 | 6.81 | 6.85 | - | 226.06 | 224.74 | 234.26 | 234.27 | - |
| Beauty shops4 ........................................................... | 723 | 6.94 | 7.01 | 7.22 | 7.20 | - | 205.42 | 206.80 | 212.27 | 210.24 | - |
| Miscellaneous personal services ................................. | 729 | 7.12 | 7.12 | 7.22 | 7.32 | - | 172.30 | 172.30 | 180.50 | 179.34 | - |
| Business services ....................................................... | 73 | 9.19 | 9.09 | 9.52 | 9.62 | - | 306.03 | 304.52 | 317.02 | 320.35 | - |
| Advertising ................................................................ | 731 | 13.28 | 13.00 | 13.51 | 13.71 | - | 492.69 | 477.10 | 494.47 | 505.90 | - |
| Services to buildings .................................................. | 734 | 7.22 | 7.13 | 7.31 | 7.41 | - | 212.27 | 208.91 | 213.45 | 212.67 | - |
| Personnel supply services: <br> Help supply services $\qquad$ | 7363 | 7.75 | 7.70 | 8.05 | 8.14 | - | 234.05 | 239.47 | 250.36 | 251.53 | - |
| Computer and data processing services ..................... | 737 | 14.37 | 14.25 | 14.99 | 15.15 | - | 546.06 | 538.65 | 569.62 | 578.73 | - |
| Miscellaneous business services ................................ | 738 | 7.65 | 7.65 | 7.91 | 7.93 | - | 267.75 | 266.22 | 270.52 | 272.79 | - |

See footnotes at end of table.

## ESTABLISHMENT DATA HOURS AND EARNINGS NOT SEASONALLY ADJUSTED

## C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { Aug. } \\ & 1989 \end{aligned}$ | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{\circ} \end{aligned}$ |
| Services-Continued <br> Auto repair, services, and parking | 75 | 37.2 | 37.3 | 37.2 | 37.2 | - | - | - | - | - | - |
| Automotive repair shops ............................................................. | 753 | 38.4 | 38.5 | 38.8 | 38.8 | - | - | - | - | - | - |
| Miscellaneous repair services ....................................... | 76 | 38.3 | 38.1 | 38.2 | 38.4 | - | - | - | - | - | - |
| Motion pictures ............................................................ | 78 | 29.5 | 28.3 | 27.5 | 28.4 | - | - | - | - | - | - |
| Motion picture production and services ....................... | 781 | 37.0 | 34.6 | 35.9 | 35.7 | - | - | - | - | - | - |
| Amusement and recreation services ............................. | 79 | 29.5 | 29.1 | 27.9 | 28.8 | - | - | - | - | - | - |
| Misc. amusement and recreation services ................... | 799 | 29.6 | 29.1 | 27.8 | 29.0 | - | - | - | - | - | - |
| Health services ............................................................ | 80 | 32.8 | 32.5 | 32.6 | 33.0 | - | - | - | - | - | - |
| Offices and clinics of medical doctors ......................... | 801 | 32.2 | 31.9 | 31.5 | 31.9 | - | - | - | - | - | - |
| Offices and clinics of dentists .................................... | 802 | 28.4 | 28.3 | 28.3 | 28.4 | - | - | - | - | - | - |
| Nursing and personal care facilities ............................ | 805 | 32.8 | 31.8 | 31.9 | 33.0 | - | - | - | - | - | - |
| Hospitals .................................................................. | 806 | 34.3 | 34.1 | 34.5 | 34.6 | - | - | - | - | - | - |
| Home health care services ........................................ | 808 | 25.8 | 25.2 | 25.2 | 25.7 | - | - | - | - | - | - |
| Legal services ............................................................ | 81 | 35.3 | 34.9 | 34.9 | 35.4 | - | - | - | - | - | - |
| Engineering and management services | 87 | 37.2 | 37.1 | 37.2 | 37.4 | - | - | - | - | - | - |
| Engineering and architectural services ........................ | 871 | 38.9 | 38.9 | 39.2 | 39.1 | - | - | - | - | - | - |
| Accounting, auditing, and bookkeeping ....................... | 872 | 36.1 | 36.1 | 36.9 | 37.0 | - | - | - | - | - | - |
| Research and testing services ................................... | 873 | 36.8 | 37.0 | 36.0 | 36.7 | - | - | - | - | - | - |
| Management and public relations ............................... | 874 | 35.7 | 35.5 | 35.4 | 35.8 | - | - | - | - | - | - |
| Services, nec .............................................................. | 89 | 38.6 | 38.1 | 36.8 | 37.3 | - | - | - | - | - | - |

See footnotes at end of table.

## C-2. Average hours and earnings of production or nonsupervisory workers' on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | Aug. <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| Services-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Auto repair, services, and parking | 75 | $\begin{array}{r} \$ 8.46 \\ 9.34 \end{array}$ | \$8.51 | \$8.76 | \$8.80 | - | $\$ 314.71$ | $\$ 317.42$361.52 | \$325.87 | $\$ 327.36$374.03 | - |
| Automotive repair shops ............. |  |  | 9.39 | 9.65 | 9.64 |  |  |  |  |  |  |
| Miscellaneous repair services ....................................... | 76 | 9.98 | 9.93 | 10.28 | 10.35 | - | 382.23 | 378.33 | 392.70 | 397.44 | - |
| Motion pictures | 78781 | $\begin{array}{r} 9.48 \\ 15.21 \end{array}$ | $\begin{array}{r} 9.91 \\ 15.84 \end{array}$ | $\begin{aligned} & 10.21 \\ & 15.82 \end{aligned}$ | 10.23 | - | 279.66 | 280.45 | 280.78 | 290.53 | - |
| Motion picture production and services ... |  |  |  |  | 16.01 |  | 562.77 | 548.06 | 567.94 | 571.56 | - |
| Amusement and recreation services. | 79799 | 7.21 6.51 | 7.166.50 | 7.88 | 7.70 | - | 212.70 | 208.36 | 219.85 | 221.76 | - |
| Misc. amusement and recreation services |  | 6.51 |  | 7.10 | 6.95 | - | 192.70 | 189.15 | 197.38 | 201.55 | - |
| Health services | 80 | $9.85$ | 9.87 | 10.3310.50 | $\begin{aligned} & 10.40 \\ & 10.50 \end{aligned}$ | - | 323.08 | 320.78 | 336.76 | 343.20 | - |
| Offices and clinics of medical doctors | 801 | 9.78 | $\begin{aligned} & 9.79 \\ & 9.39 \end{aligned}$ |  |  |  | $\begin{aligned} & 314.92 \\ & 266.39 \end{aligned}$ | 312.30 | 330.75 | 334.95 | - |
| Offices and clinics of dentists | 802 | $\begin{aligned} & 9.38 \\ & 6.81 \end{aligned}$ |  | $\begin{aligned} & 10.50 \\ & 10.12 \end{aligned}$ | $\begin{aligned} & 10.50 \\ & 10.15 \end{aligned}$ | - |  | 265.74 | 286.40 | 288.26 | - |
| Nursing and personal care facilities ............................ | 805 |  | $\begin{aligned} & 9.39 \\ & 6.82 \end{aligned}$ | $\begin{array}{r} 10.12 \\ 7.20 \end{array}$ | $\begin{array}{r} 10.15 \\ 7.26 \end{array}$ | - | $\begin{aligned} & 223.37 \\ & 386.22 \end{aligned}$ |  | 229.68 | 239.58 |  |
| Hospitals ................ | 806 | 11.267.89 | $\begin{array}{r} 11.28 \\ 7.90 \end{array}$ | $\begin{array}{r} 11.64 \\ 8.76 \end{array}$ | $\begin{array}{r} 11.78 \\ 8.86 \end{array}$ | - |  | $\begin{aligned} & 384.65 \\ & 199.08 \end{aligned}$ | 401.58 | 407.59 | - |
| Home health care services ........................................ | 808 |  |  |  |  |  | $\begin{aligned} & 386.22 \\ & 203.56 \end{aligned}$ |  | 220.75 | 227.70 |  |
| Legal services ............................................................. | 81 | 13.66 | 13.33 | 14.16 | 14.36 | - | 482.20 | 465.22 | 494.18 | 508.34 | - |
| Engineering and management services ......................... | 87 | 13.14 | 12.95 | 13.4614.54 | 13.65 | - | $\begin{aligned} & 488.81 \\ & 548.10 \end{aligned}$ | 480.45 | 500.71 | 510.51 | - |
| Engineering and architectural services ........................ | $871$ | $\begin{aligned} & 14.09 \\ & 11.98 \end{aligned}$ | $\begin{aligned} & 13.89 \\ & 11.74 \end{aligned}$ |  | $\begin{aligned} & 14.71 \\ & 12.36 \end{aligned}$ |  |  | $\begin{aligned} & 540.32 \\ & 423.81 \end{aligned}$ | $\begin{aligned} & 569.97 \\ & 448.70 \end{aligned}$ | $\begin{aligned} & 575.16 \\ & 457.32 \end{aligned}$ | - |
| Accounting, auditing, and bookkeeping ....................... |  |  |  | $\begin{aligned} & 14.54 \\ & 12.16 \end{aligned}$ |  | - | $\begin{aligned} & 548.10 \\ & 432.48 \end{aligned}$ |  |  |  |  |
| Research and testing services ................................... | 873 | 13.60 | 13.47 | 13.87 | 14.07 | - | 500.48 | 498.39 | 499.32 | 516.37 | - |
| Management and public relations ................................ | . 874 | 12.15 | 11.97 | 12.45 | 12.62 | - | 433.76 | 424.94 | 440.73 | 451.80 | - |
| Services, nec .............................................................. | 89 | 12.89 | 12.65 | 13.61 | 13.89 | - | 497.55 | 481.97 | 500.85 | 518.10 | - |

[^14]${ }^{4}$ Money payments only; tips, not included.
${ }^{5}$ Data for nonoffice sales agents are excluded from the nonsupervisory count for all series in this division.

- Data not available.
${ }^{\rho}=$ preliminary.
NOTE: Data in this table have been revised to reflect March 1989 benchmarks and conversion to the 1987 Standard Industrial Classification (SIC) system. See the article in this issue for additional information.


## A Note on Average Hourly Earnings in Aircraft (SIC 3721) and Guided Missiles and Space Vehicles (SIC 3761) Manufacturing

For many years, the Bureau of Labor Statistics' average hourly earnings series for production workers in aircraft manufacturing (SIC 3721) and guided missiles and space vehicles manufacturing (SIC 3761) have been used to escalate labor costs in contracts between aerospace companies and their customers. Although the Bureau's series by definition take account of traditional wage rate changes, they do not capture "lump-sum payments to workers in lieu of general wage increases" which were negotiated in aerospace manufacturers' collective bargaining agreements beginning in late 1983.
Because of special circumstances in the aerospace industry, blS has calculated average hourly earnings series for SIC 3721 and SIC 3761 which include lump-sum payments. These series, beginning in October 1983, the effective date of the first aerospace bargain-
ing agreement using lump-sum payments, were published in the June 1988 issue of Employment and Earnings. Current and year earlier data are presented in table C -2a along with the average hourly earnings series produced as part of the Current Employment Statistics program. An explanation of the methodology used to derive these series appears in the Explanatory Notes of this publication.
Lump-sum payments are but one of several recent changes in the way that employees are compensated. The changes are widespread and they differ by industry. Because of these developments, the Bureau is conducting a broad-based review of all concepts and definitions used in its earnings and wage programs to determine the proper treatment of lump-sum payments and other new compensation practices.

C-2a. Average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing

| Series | Aircraft (SIC 3721) |  |  |  | Guided missiles and space vehicles (SIC 3761) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { June } \\ & 1989 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\mathrm{p}} \end{gathered}$ |
| Average hourly earnings, excluding lump-sum payments | \$14.73 | \$14.86 | \$15.67 | \$15.54 | \$14.16 | \$14.17 | \$14.74 | \$14.92 |
| Average hourly earnings, including lump-sum payments | 15.18 | 15.31 | 16.40 | 16.29 | 14.62 | 14.64 | 15.19 | 15.37 |

$\rho=$ preliminary.

C-3. Average hourly earnings, excluding overtime,' of production workers on manufacturing payrolls

| Industry | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | Aug. 1989 | June $1990$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1990^{p} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturing .............................................................................. | \$10.04 | \$9.99 | \$10.37 | \$10.41 | \$10.34 |
| Durable goods | 10.53 | 10.50 | 10.86 | 10.89 | 10.86 |
| Lumber and wood products | 8.52 | 8.51 | 8.69 | 8.77 | ${ }^{(2)}$ |
| Furniture and fixtures .. | 8.01 | 8.01 | 8.26 | 8.26 | ${ }^{(2)}$ |
| Stone, clay, and glass products ............................................... | 10.19 | 10.18 | 10.51 | 10.57 | ${ }^{(2)}$ |
| Primary metal industries .. | 11.78 | 11.72 | 12.14 | 12.26 | ${ }^{2}$ ) |
| Fabricated metal products | 10.13 | 10.09 | 10.37 | 10.39 | ${ }^{(2)}$ |
| Industrial machinery and equipment | 10.86 | 10.85 | 11.22 | 11.27 | (2) |
| Electronic and other electrical equipment .............................. | 9.73 | 9.68 | 9.89 | 9.97 | (2) |
| Transportation equipment . | 12.95 | 13.00 | 13.46 | 13.40 | ( ${ }^{2}$ |
| Instruments and related products .............................................. | 10.53 | 10.55 | 10.90 | 11.00 | (2) |
| Miscellaneous manufacturing ..................................................... | 8.05 | 7.94 | 8.36 | 8.38 | ( $\left.{ }^{( }\right)$ |
| Nondurable goods | 9.36 | 9.29 | 9.69 | 9.75 | \$9.65 |
| Food and kindred products | 8.87 | 8.79 | 9.16 | 9.13 | ( ${ }^{2}$ ) |
| Tobacco products ..................................................................... | 16.05 | 15.53 | 16.81 | 17.09 | (2) |
| Textile mill products ................................................................. | 7.29 | 7.31 | 7.65 | 7.67 | (2) |
| Apparel and other textile products ............................................. | 6.15 | 6.17 | 6.47 | 6.45 | (2) |
| Paper and allied products ........................................................ | 11.47 | 11.36 | 11.61 | 11.71 | (2) |
| Printing and publishing. | 10.48 | 10.49 | 10.79 | 10.86 | $\left({ }^{2}\right)$ |
| Chemicals and allied products | 12.51 | 12.47 | 12.85 | 12.93 | (2) |
| Petroleum and coal products .. | 14.39 | 14.25 | 15.17 | 15.20 | (2) |
| Rubber and misc. plastics products | 9.09 | 9.07 | 9.33 | 9.44 | $\left({ }^{2}\right)$ |
| Leather and leather products ................................................... | 6.40 | 6.39 | 6.74 | 6.64 | ${ }^{(2)}$ |

${ }^{1}$ Derived by assuming that overtime hours are paid at the rate of time and one-half.
${ }^{2}$ Not available.
${ }^{p}=$ preliminary.

NOTE: Data in this table have been revised to reflect March 1989 benchmarks and conversion to the 1987 Standard Industrial Classification (SIC) system. See the article in this issue for additional information.

## ESTABLISHMENT DATA

EARNINGS
NOT SEASONALLY ADJUSTED

## C-4. Average hourly and weekly earnings of production or nonsupervisory workers' on private

 nonfarm payrolls by major industry, in current and constant (1982) dollars
' Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
${ }^{2}$ Not available.
${ }^{\circ}=$ preliminary.
NOTE: The Consumer Price Index for Urban Wage Earners and

Clencal Workers (CPI-W) is used to deflate the earnings series. Data in this table have been revised to reflect March 1989 benchmarks and conversion to the 1987 Standard Industrial Classification (SIC) system. In addition, the base year for the constant-dollar senies has been converted to $1982=100$. See the article in this issue for additional information.

C-5. Average weekly hours of production or nonsupervisory workers' on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

| Industry | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {P }}$ | Aug. ${ }^{\text {P }}$ |
| Total private ........................................ | 34.5 | 34.6 | 34.6 | 34.5 | 34.4 | 34.4 | 34.6 | 34.6 | 34.5 | 34.5 | 34.7 | 34.5 | 34.5 |
| Mining ............................................................ | 43.4 | 43.7 | 43.6 | 43.7 | 43.0 | 43.6 | 43.7 | 43.5 | 43.4 | 43.6 | 44.4 | 43.7 | 43.9 |
| Construction ............................................... | ( ${ }^{2}$ ) | ( ${ }^{\text {2 }}$ | ( ${ }^{2}$ | (2) | ( ${ }^{2}$ | ( ${ }^{2}$ ) | ( ${ }^{2}$ | ( ${ }^{2}$ ) | ( ${ }^{2}$ | ${ }^{(2)}$ | $\left.{ }^{( }\right)$ | ( ${ }^{2}$ ) | ${ }^{(2)}$ |
| Manufacturing | 41.0 | 40.9 | 40.8 | 40.7 | 40.6 | 40.7 | 40.8 | 40.8 | 40.7 | 40.9 | 41.0 | 40.9 | 41.0 |
| Overtime hours ..................................... | 3.8 | 3.8 | 3.7 | 3.7 | 3.7 | 3.6 | 3.6 | 3.7 | 3.5 | 3.8 | 3.8 | 3.8 | 3.9 |
| Durable goods | 41.6 | 41.5 | 41.3 | 41.2 | 41.2 | 41.3 | 41.3 | 41.4 | 41.2 | 41.5 | 41.6 | 41.6 | 41.6 |
| Overtime hours | 3.9 | 3.8 | 3.7 | 3.7 | 3.7 | 3.6 | 3.6 | 3.8 | 3.5 | 3.9 | 3.9 | 3.9 | 4.0 |
| Lumber and wood products | 40.1 | 40.1 | 40.3 | 40.2 | 40.0 | 40.4 | 40.1 | 40.4 | 40.2 | 40.4 | 40.3 | 40.2 | 40.4 |
| Furniture and fixtures ... | 39.5 | 39.5 | 39.2 | 39.4 | 39.1 | 39.6 | 39.3 | 39.2 | 39.0 | 39.2 | 39.3 | 39.5 | 39.2 |
| Stone, clay, and glass products ................. | 42.5 | 42.2 | 42.4 | 42.4 | 41.6 | 42.3 | 42.2 | 42.0 | 42.0 | 42.1 | 42.3 | 41.8 | 42.3 |
| Primary metal industries ............................ | 42.8 | 42.6 | 42.5 | 42.5 | 42.5 | 42.6 | 42.5 | 42.7 | 41.8 | 43.0 | 43.0 | 43.1 | 42.9 |
| Blast furnaces and basic steel products .. | 43.3 | 43.1 | 42.8 | 43.0 | 42.9 | 43.1 | 42.9 | 43.0 | 42.9 | 43.5 | 43.3 | 44.1 | 43.6 |
| Fabricated metal products ......................... | 41.5 | 41.5 | 41.4 | 41.3 | 41.2 | 41.1 | 41.4 | 41.5 | 41.2 | 41.7 | 41.6 | 41.8 | 41.6 |
| Industrial machinery and equipment ........... | 42.3 | 42.2 | 42.1 | 42.2 | 42.1 | 42.1 | 42.1 | 42.0 | 41.8 | 42.1 | 42.0 | 42.1 | 42.0 |
| Electronic and other electrical equipment .. | 41.0 | 41.0 | 41.0 | 40.8 | 40.5 | 40.9 | 41.1 | 41.0 | 40.9 | 40.9 | 41.0 | 40.8 | 40.8 |
| Transportation equipment ......................... | 42.5 | 42.7 | 41.3 | 41.0 | 41.7 | 41.5 | 41.6 | 42.0 | 41.9 | 42.5 | 42.6 | 42.8 | 43.1 |
| Motor vehicles and equipment ................ | 42.8 | 43.0 | 42.7 | 42.3 | 42.2 | 41.0 | 41.5 | 42.3 | 41.8 | 43.4 | 43.7 | 43.6 | 44.1 |
| Instruments and related products ............... | 41.0 | 40.9 | 41.0 | 41.0 | 41.0 | 40.9 | 41.0 | 41.1 | 41.2 | 41.1 | 41.2 | 41.3 | 41.2 |
| Miscellaneous manufacturing ..................... | 39.4 | 39.2 | 39.3 | 39.7 | 39.3 | 39.5 | 39.5 | 39.4 | 39.2 | 39.4 | 39.4 | 39.4 | 39.4 |
| Nondurable goods .................................... | 40.2 | 40.2 | 40.1 | 40.1 | 40.0 | 40.0 | 40.0 | 40.0 | 40.0 | 40.1 | 40.3 | 40.1 | 40.2 |
| Overtime hours .... | 3.6 | 3.7 | 3.6 | 3.6 | 3.6 | 3.5 | 3.5 | 3.6 | 3.4 | 3.6 | 3.6 | 3.6 | 3.7 |
| Food and kindred products ........................ | 40.7 | 40.9 | 40.8 | 40.8 | 40.7 | 40.6 | 40.6 | 40.7 | 40.6 | 40.8 | 40.9 | 40.6 | 41.1 |
| Tobacco products .................................... | ${ }^{2}$ ) | $\left({ }^{2}\right)$ | ${ }^{(2)}$ | (2) | ${ }^{(2)}$ | $\left(^{2}\right)$ | ${ }^{(2)}$ | ${ }^{(2)}$ | ${ }^{(2)}$ | $\left(^{2}\right)$ | ( ${ }^{2}$ ) | ${ }^{(2)}$ | $\left.{ }^{( }\right)$ |
| Textile mill products ................................. | 41.0 | 40.6 | 40.6 | 40.4 | 40.2 | 40.3 | 40.2 | 40.0 | 40.0 | 40.2 | 40.4 | 40.1 | 40.0 |
| Apparel and other textile products ............. | 36.9 | 36.8 | 36.9 | 36.8 | 36.4 | 36.6 | 36.6 | 36.3 | 36.4 | 36.6 | 36.7 | 36.6 | 36.6 |
| Paper and allied products ......................... | 43.5 | 43.2 | 43.3 | 43.4 | 43.2 | 43.2 | 43.1 | 43.2 | 43.3 | 43.3 | 43.5 | 43.5 | 43.7 |
| Printing and publishing ............................. | 37.8 | 38.0 | 37.8 | 37.9 | 37.7 | 37.9 | 37.9 | 38.0 | 37.8 | 37.9 | 38.0 | 37.9 | 38.1 |
| Chemicals and allied products ................... | 42.4 | 42.5 | 42.5 | 42.4 | 42.6 | 42.7 | 42.4 | 42.5 | 42.6 | 42.6 | 42.6 | 42.3 | 42.5 |
| Petroleum and coal products ..................... | ( ${ }^{2}$ ) | ( ${ }^{2}$ ) | ${ }^{(2)}$ | ${ }^{(2)}$ | ( ${ }^{2}$ ) | ${ }^{(2)}$ | ( ${ }^{2}$ ) | ${ }^{(2)}$ | $\left({ }^{2}\right)$ | ${ }^{(2)}$ | ${ }^{(2)}$ | ${ }^{(2)}$ | ${ }^{(2)}$ |
| Rubber and misc. plastics products ........... | 41.2 | 41.1 | 41.1 | 41.1 | 40.9 | 40.8 | 41.2 | 41.4 | 40.9 | 41.4 | 41.6 | 41.5 | 41.1 |
| Leather and leather products ..................... | 38.1 | 38.2 | 37.7 | 37.6 | 37.4 | 37.4 | 37.7 | 37.7 | 37.5 | 37.4 | 37.5 | 37.3 | 37.6 |
| Transportation and public utilities ............... | 38.6 | 38.8 | 38.8 | 38.6 | 38.6 | 38.3 | 38.7 | 39.0 | 39.0 | 39.1 | 39.2 | 39.0 | 39.1 |
| Wholesale trade .......................................... | 38.0 | 38.1 | 38.1 | 38.1 | 38.1 | 38.0 | 38.0 | 38.1 | 38.1 | 38.0 | 38.1 | 38.1 | 38.0 |
| Retail trade ........ | 28.9 | 28.9 | 28.9 | 28.8 | 28.8 | 28.8 | 28.9 | 29.0 | 29.0 | 29.0 | 29.0 | 28.9 | 28.7 |
| Finance, insurance, and real estate ............. | ${ }^{(2)}$ | $\left.{ }^{2}\right)$ | ${ }^{(2)}$ | $\left.{ }^{( }\right)$ | $\left.{ }^{( }\right)$ | (2) | ( ${ }^{2}$ ) | $\left.{ }^{( }\right)$ | ( ${ }^{(1)}$ | ( $\left.{ }^{( }\right)$ | $\left.{ }^{( }\right)$ | ( ${ }^{2}$ | $\left.{ }^{( }\right)$ |
| Services ...................................................... | 32.5 | 32.6 | 32.7 | 32.6 | 32.6 | 32.5 | 32.6 | 32.5 | 32.6 | 32.5 | 32.6 | 32.6 | 32.6 |

${ }^{1}$ Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
${ }^{2}$ These series are not published seasonally adjusted because the seasonal components are small relative to the trend-cycle and/or irregular
components and consequently cannot be separated with sufficient precision. $p=$ preliminary.
NOTE: Data in this table have been revised to reflect March 1989 benchmarks, conversion to the 1987 Standard Industrial Classification (SIC) system, and updated seasonal adjustment factors. See the article in this issue for additional information.

SEASONALLY ADJUSTED
C-6. Indexes of aggregate weekly hours of production or nonsupervisory workers' on private nonfarm payrolis by major industry and manufacturing group, seasonally adjusted
$(1982=100)$

| Industry | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{0}$ | Aug. ${ }^{\text {P }}$ |
| Total private ........................................... | 122.8 | 123.2 | 123.4 | 123.5 | 123.3 | 123.6 | 124.4 | 124.4 | 124.2 | 124.6 | 125.3 | 124.8 | 124.6 |
| Goods-producing | 112.4 | 111.9 | 111.6 | 111.6 | 110.4 | 111.1 | 112.1 | 111.5 | 110.1 | 111.2 | 111.7 | 110.5 | 110.5 |
| Mining | 62.4 | 62.9 | 63.1 | 63.8 | 63.0 | 64.4 | 64.9 | 64.9 | 65.2 | 65.9 | 68.0 | 66.7 | 65.9 |
| Construction | 141.0 | 140.6 | 141.7 | 143.0 | 138.1 | 144.9 | 147.7 | 144.6 | 138.6 | 142.1 | 144.3 | 138.5 | 139.6 |
| Manufacturing | 109.6 | 109.0 | 108.3 | 108.0 | 107.6 | 106.8 | 107.6 | 107.5 | 107.0 | 107.5 | 107.6 | 107.4 | 107.2 |
| Durable goods | 109.7 | 108.9 | 107.9 | 107.4 | 107.1 | 105.9 | 107.2 | 107.3 | 106.5 | 107.3 | 107.1 | 107.2 | 106.5 |
| Lumber and wood products | 132.2 | 131.5 | 132.6 | 132.1 | 131.4 | 133.0 | 131.5 | 132.5 | 131.7 | 131.9 | 130.5 | 129.7 | 129.7 |
| Furniture and fixtures.. | 130.1 | 129.5 | 127.9 | 128.2 | 126.6 | 128.2 | 127.0 | 126.6 | 125.4 | 125.7 | 126.0 | 125.8 | 124.8 |
| Stone, clay, and glass products .............. | 113.9 | 112.3 | 113.3 | 113.6 | 111.2 | 113.3 | 113.3 | 111.7 | 110.7 | 110.5 | 110.5 | 108.2 | 109.2 |
| Primary metal industries ......................... | 95.5 | 94.3 | 93.6 | 93.1 | 92.8 | 92.4 | 92.6 | 92.7 | 90.9 | 93.5 | 93.5 | 94.3 | 93.2 |
| Blast furnaces and basic steel products | 83.2 | 82.8 | 81.4 | 81.0 | 81.1 | 81.4 | 80.3 | 79.3 | 79.1 | 81.2 | 80.4 | 81.9 | 81.0 |
| Fabricated metal products ....................... | 110.1 | 109.6 | 108.9 | 108.3 | 107.7 | 106.1 | 107.4 | 107.7 | 107.2 | 108.3 | 107.8 | 108.6 | 108.0 |
| Industrial machinery and equipment ......... | 100.6 | 100.0 | 99.2 | 99.8 | 99.5 | 99.7 | 99.4 | 98.8 | 98.2 | 98.9 | 98.4 | 98.5 | 97.7 |
| Electronic and other electrical equipment | 112.6 | 112.2 | 111.9 | 110.8 | 109.4 | 110.1 | 110.3 | 110.2 | 109.7 | 109.5 | 109.6 | 108.2 | 107.3 |
| Transportation equipment .......... | 126.2 | 125.1 | 120.2 | 118.4 | 120.7 | 110.9 | 119.8 | 121.1 | 120.2 | 121.8 | 123.3 | 124.3 | 123.8 |
| Motor vehicles and equipment ............... | 138.4 | 136.0 | 132.3 | 128.6 | 128.7 | 105.2 | 125.5 | 128.3 | 123.4 | 131.2 | 133.7 | 133.2 | 134.3 |
| Instruments and related products ............ | 89.2 | 88.5 | 88.5 | 88.0 | 87.5 | 87.9 | 88.2 | 88.4 | 88.4 | 87.7 | 87.2 | 87.0 | 86.5 |
| Miscellaneous manufacturing ................... | 105.3 | 104.0 | 104.3 | 104.6 | 104.3 | 105.9 | 105.6 | 104.6 | 102.9 | 104.2 | 102.7 | 103.8 | 102.7 |
| Nondurable goods | 109.4 | 109.2 | 109.0 | 108.8 | 108.3 | 108.2 | 108.0 | 107.8 | 107.6 | 107.9 | 108.2 | 107.7 | 108.1 |
| Food and kindred products | 108.2 | 109.1 | 108.9 | 108.8 | 108.4 | 108.4 | 108.3 | 108.5 | 108.7 | 109.2 | 108.7 | 108.3 | 110.0 |
| Tobacco products ............... | 67.2 | 69.3 | 68.8 | 68.3 | 65.8 | 66.9 | 67.6 | 68.1 | 64.7 | 65.8 | 64.3 | 66.5 | 66.4 |
| Textile mill products ...... | 106.6 | 104.9 | 104.9 | 103.9 | 103.1 | 103.0 | 102.2 | 101.2 | 101.2 | 100.9 | 101.2 | 100.3 | 99.9 |
| Apparel and other textile products. | 98.2 | 97.5 | 97.3 | 96.8 | 95.5 | 95.2 | 94.4 | 92.7 | 92.9 | 92.9 | 93.0 | 92.5 | 92.5 |
| Paper and allied products ....................... | 110.9 | 109.9 | 110.2 | 110.5 | 110.2 | 110.4 | 110.3 | 110.4 | 110.8 | 110.4 | 111.4 | 111.6 | 112.5 |
| Printing and publishing ......... | 126.6 | 127.1 | 126.4 | 127.2 | 127.0 | 128.0 | 128.1 | 128.4 | 127.6 | 128.1 | 128.6 | 128.4 | 129.4 |
| Chemicals and allied products.. | 104.8 | 104.9 | 105.0 | 104.8 | 105.3 | 105.4 | 104.4 | 104.3 | 104.6 | 104.6 | 104.4 | 103.9 | 103.7 |
| Petroleum and coal products. | 86.1 | 86.5 | 87.5 | 88.4 | 87.9 | 86.9 | 88.4 | 89.2 | 88.0 | 88.0 | 93.0 | 87.6 | 87.9 |
| Rubber and misc. plastics products ......... | 128.3 | 127.5 | 126.9 | 126.4 | 125.4 | 124.3 | 125.0 | 125.6 | 124.6 | 126.0 | 127.3 | 127.4 | 126.2 |
| Leather and leather products .................. | 65.5 | 65.7 | 64.3 | 64.1 | 62.6 | 62.6 | 63.1 | 63.1 | 62.2 | 61.5 | 61.1 | 59.6 | 59.5 |
| Service-producing ...................................... | 127.5 | 128.2 | 128.8 | 128.8 | 129.1 | 129.3 | 129.9 | 130.2 | 130.5 | 130.6 | 131.4 | 131.2 | 131.0 |
| Transportation and public utllities ............. | 109.2 | 111.5 | 112.0 | 111.8 | 113.4 | 112.9 | 114.2 | 115.3 | 115.2 | 116.0 | 116.7 | 115.8 | 116.1 |
| Wholesale trade ........................................ | 118.0 | 118.4 | 118.7 | 119.0 | 119.1 | 119.2 | 119.1 | 119.4 | 119.3 | 118.9 | 119.8 | 119.6 | 119.3 |
| Retail trade ................................................ | 123.7 | 123.8 | 123.9 | 123.8 | 123.8 | 124.4 | 124.4 | 124.9 | 125.0 | 125.1 | 125.3 | 125.0 | 123.9 |
| Finance, insurance, and real estate .......... | 120.7 | 120.7 | 121.8 | 121.1 | 121.0 | 121.4 | 122.2 | 122.3 | 122.6 | 122.5 | 122.9 | 123.1 | 123.0 |
| Services .................................................... | 140.4 | 141.4 | 142.1 | 142.4 | 142.8 | 142.8 | 143.8 | 143.9 | 144.4 | 144.6 | 145.8 | 145.9 | 146.2 |

[^15]NOTE: Data in this table have been revised to reflect March 1989 benchmarks, coriversion to the 1987 Standard Industrial Classification (SIC) system, and updated seasonal adjustment factors. In addition, the base year for the indexes has been converted to $1982=100$.

C-7. Average hourly and weekly earnings of production or nonsupervisory workers' on private nonfarm payrolls, seasonally adjusted

| Industry | 1989 |  |  |  |  | 1990 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {p }}$ | Aug. ${ }^{\text {P }}$ |
|  | Average hourly earnings |  |  |  |  |  |  |  |  |  |  |  |  |
| Total private (in current dollars) ........................ | \$9.70 | \$9.73 | \$9.78 | \$9.78 | \$9.83 | \$9.82 | \$9.88 | \$9.93 | \$9.96 | \$9.98 | \$10.03 | \$10.07 | \$10.09 |
| Mining .......................................................... | 13.30 | 13.31 | 13.32 | 13.32 | 13.40 | 13.33 | 13.33 | 13.51 | 13.59 | 13.58 | 13.73 | 13.75 | 13.69 |
| Construction ................................................... | 13.55 | 13.56 | 13.61 | 13.66 | 13.76 | 13.55 | 13.63 | 13.66 | 13.62 | 13.71 | 13.73 | 13.76 | 13.78 |
| Manufacturing .. | 10.53 | 10.55 | 10.57 | 10.58 | 10.62 | 10.57 | 10.67 | 10.73 | 10.75 | 10.81 | 10.86 | 10.89 | 10.92 |
| Excluding overtime ${ }^{2}$............................................................. | 10.07 | 10.09 | 10.10 | 10.12 | 10.17 | 10.13 | 10.22 | 10.28 | 10.34 | 10.35 | 10.38 | 10.40 | 10.41 |
| Transportation and public utilities ................ | 12.65 | 12.68 | 12.71 | 12.65 | 12.73 | 12.78 | 12.83 | 12.87 | 12.96 | 12.88 | 12.92 | 12.99 | 12.99 |
| Wholesale trade | 10.42 | 10.48 | 10.54 | 10.55 | 10.60 | 10.57 | 10.62 | 10.67 | 10.74 | 10.74 | 10.80 | 10.85 | 10.81 |
| Retail trade .................................................... | 6.56 | 6.57 | 6.60 | 6.61 | 6.64 | 6.68 | 6.69 | 6.73 | 6.74 | 6.76 | 6.78 | 6.79 | 6.82 |
| Finance, insurance, and real estate | 9.56 | 9.65 | 9.72 | 9.66 | 9.75 | 9.73 | 9.77 | 9.82 | 9.88 | 9.87 | 9.98 | 10.08 | 10.03 |
| Services | 9.44 | 9.49 | 9.55 | 9.55 | 9.61 | 9.63 | 9.67 | 9.72 | 9.79 | 9.80 | 9.85 | 9.91 | 9.91 |
| Total private (in constant dollars) ${ }^{3}$ | 7.64 | 7.64 | 7.65 | 7.62 | 7.63 | 7.54 | 7.55 | 7.56 | 7.57 | 7.58 | 7.58 | 7.58 | ( ${ }^{4}$ |
|  | Average weekly earnings |  |  |  |  |  |  |  |  |  |  |  |  |
| Total private: <br> In current dollars | 334.65 | 336.66 | 338.39 | 337.41 | 338.15 | 337.81 | 341.85 | 343.58 | 343.62 | 344.31 | 348.04 | 347.42 | 348.11 |
| In constant (1982) dollars ${ }^{3}$........................................................ | 263.71 | 264.25 | 264.57 | 262.99 | 262.54 | 259.45 | 261.35 | 261.48 | 261.31 | 261.63 | 262.87 | 261.61 | ( ${ }^{\text {a }}$ |
| ${ }^{1}$ Data relate to production workers in mining and manufacturing; <br> ${ }^{4}$ Not available. construction workers in construction; and nonsupervisory workers in <br> ${ }^{\circ}=$ preliminary. transportation and public utilities; wholesale and retail trade; finance, <br> NOTE: Data in this table have been revised to reflect March 1989 insurance, and real estate; and services. <br> ${ }^{2}$ Derived by assuming that overtime hours are paid at the rate of time benchmarks, conversion to the 1987 Standard Industrial Classification (SIC) system, and updated seasonal adjustment factors. In addition, the base year and one-half. for the constant-dollar series has been converted to $1982=100$. See the <br> ${ }^{3}$ The Consumer Price Index for Urban Wage Earners and Clerical article in this issue for additional information. <br> Workers (CPI-W) is used to deflate these series. |  |  |  |  |  |  |  |  |  |  |  |  |  |

## ESTABLISHMENT DATA

STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED
C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas

| State and area | Average weekly hours |  |  | Average hourly earnings |  |  | Average weekly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { July } \\ & 1990^{\circ} \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ |
| Alabama | 40.6 | 41.4 | 40.8 | \$9.00 | \$0.38 | \$9.36 | \$365.40 | \$388.33 | \$381.89 |
| Birmingham | 40.2 | 41.1 | 37.3 | 9.48 | 9.63 | 9.59 | 381.10 | 395.79 | 357.71 |
| Mobile .............. | 41.7 | 42.9 | 41.3 | 11.11 | 11.21 | 11.36 | 463.29 | 480.91 | 469.17 |
| Alaska | 46.9 | 44.4 | 52.9 | 10.93 | 12.97 | 10.87 | 512.62 | 575.87 | 575.02 |
| Arizona . | 40.7 | 40.7 | 40.7 | 10.06 | 10.16 | 10.30 | 409.44 | 413.51 | 419.21 |
| Arkansas | 40.8 | 41.0 | 40.9 | 8.31 | 8.57 | 8.60 | 339.05 | 351.37 | 351.74 |
| Fayetteville-Springdale | 41.3 | 40.6 | 41.0 | 7.33 | 7.79 | 7.67 | 302.73 | 316.27 | 314.47 |
| Fort Smith | 39.5 | 40.1 | 40.3 | 8.78 | 8.72 | 8.74 | 346.81 | 349.67 | 352.22 |
| Little Rock-North Little Rock | 41.8 | 41.6 | 42.2 | 8.99 | 9.06 | 9.13 | 375.78 | 376.90 | 385.29 |
| Pine Bluff ............................ | 43.9 | 44.6 | 44.8 | 10.26 | 11.13 | 10.76 | 450.41 | 496.40 | 482.05 |
| Callfornia | 40.3 | 40.7 | 40.4 | 11.25 | 11.49 | 11.55 | 453.38 | 467.64 | 466.62 |
| Anaheim-Santa Ana .. | 40.6 | 41.2 | 40.8 | 11.43 | 11.75 | 11.79 | 464.06 | 484.10 | 481.03 |
| Bakerstield ................. | 40.4 | 40.7 | 40.3 | 12.14 | 12.18 | 12.27 | 490.46 | 495.73 | 494.48 |
| Fresno ... | 38.1 | 40.2 | 40.8 | 9.34 | 9.36 | 9.26 | 355.85 | 376.27 | 377.81 |
| Los Angeles-Long Beach | 40.5 | 40.8 | 40.1 | 10.67 | 10.90 | 10.87 | 432.14 | 444.72 | 435.89 |
| Modesto | 40.8 | 40.3 | 38.8 | 10.35 | 10.74 | 10.80 | 422.28 | 432.82 | 419.04 |
| Oakland | 41.2 | 41.2 | 40.9 | 13.32 | 13.51 | 13.63 | 548.78 | 556.61 | 557.47 |
| Oxnard-Ventura | 40.4 | 41.5 | 40.1 | 10.77 | 10.82 | 10.89 | 435.11 | 449.03 | 436.69 |
| Riverside-San Bernardino | 39.6 | 40.0 | 40.5 | 10.06 | 10.43 | 10.42 | 398.38 | 417.20 | 422.01 |
| Sacramento .............. | 39.5 | 40.4 | 40.9 | 11.50 | 11.77 | 11.93 | 454.25 | 475.51 | 487.94 |
| San Diego .... | 40.5 | 40.9 | 41.0 | 11.28 | 11.55 | 11.62 | 456.84 | 472.40 | 476.42 |
| San Francisco ... | 37.6 | 40.2 | 39.9 | 13.14 | 13.05 | 12.98 | 494.06 | 524.61 | 517.90 |
| San Jose | 40.2 | 41.0 | 41.0 | 13.28 | 13.54 | 13.52 | 533.86 | 555.14 | 554.32 |
| Santa Barbara-Santa Maria-Lompoc. | 39.4 | 40.5 | 40.2 | 11.33 | 11.81 | 11.90 | 446.40 | 478.31 | 478.38 |
| Santa Rosa-Petaluma ... | 38.8 | 37.7 | 38.9 | 10.79 | 11.43 | 11.34 | 418.65 | 430.91 | 441.13 |
| Stockton | 41.3 | 41.7 | 41.8 | 11.08 | 11.23 | 11.16 | 457.60 | 468.29 | 466.49 |
| Vallejo-Fairfield-Napa ......... | 43.6 | 38.8 | 41.7 | 13.18 | 13.20 | 13.17 | 574.65 | 512.16 | 549.19 |
| Colorado | 40.3 | 41.7 | 41.0 | 10.49 | 10.92 | 11.05 | 422.75 | 455.36 | 453.05 |
| Denver ..................... | 39.9 | 41.2 | 39.6 | 11.53 | 12.40 | 12.62 | 460.05 | 510.88 | 499.75 |
| Connecticut. | 41.7 | 42.3 | 42.2 | 11.31 | 11.47 | 11.54 | 471.63 | 485.18 | 486.99 |
| Bridgeport-Millord | 40.6 | 41.7 | 41.9 | 11.73 | 12.16 | 12.40 | 476.24 | 507.07 | 519.56 |
| Hartiord | 42.5 | 42.4 | 42.2 | 11.95 | 12.39 | 12.47 | 507.88 | 525.34 | 526.23 |
| New Britain | 41.4 | 42.4 | 42.0 | 11.92 | 12.21 | 12.40 | 493.49 | 517.70 | 520.80 |
| New Haven-Meriden | 40.0 | 41.4 | 41.5 | 11.01 | 11.04 | 11.10 | 440.40 | 457.06 | 460.65 |
| Stamford | 42.0 | 40.7 | 40.9 | 11.65 | 12.36 | 12.30 | 489.30 | 503.05 | 503.07 |
| Waterbury ............... | 38.9 | 41.8 | 43.0 | 10.51 | 10.59 | 10.00 | 408.84 | 442.66 | 430.00 |
| Delaware . | 42.0 | 42.1 | 41.2 | 12.05 | 12.69 | 12.69 | 506.10 | 534.25 | 522.83 |
| Wilmington ...................... | 43.7 | 42.9 | 43.8 | 15.25 | 15.68 | 15.92 | 666.43 | 672.67 | 697.30 |
| District of Columbla: |  |  |  |  |  |  |  |  |  |
| Washington MSA . | 39.0 | 39.2 | 39.5 | 11.69 | 12.51 | 12.60 | 455.91 | 490.39 | 497.70 |
| Florida | 40.1 | 41.1 | 40.3 | 8.70 | 8.99 | 9.01 | 348.87 | 369.49 | 363.10 |
| Fort Lauderdale-Hollywood-Pompano Beach . | 40.9 | 41.5 | 40.6 | 8.66 | 8.91 | 9.05 | 354.19 | 369.77 | 367.43 |
| Jacksonville .......... | 41.7 | 40.3 | 41.4 | 9.28 | 9.45 | 9.64 | 386.98 | 380.84 | 399.10 |
| Miami-Hialeah . | 39.2 | 40.3 | 38.8 | 7.25 | 7.49 | 7.57 | 284.20 | 301.85 | 293.72 |
| Orlando ........... | 41.1 | 41.6 | 40.8 | 9.91 | 10.42 | 10.39 | 407.30 | 433.47 | 423.91 |
| Pensacola | 43.2 | 44.4 | 43.8 | 10.90 | 11.68 | 11.59 | 470.88 | 518.59 | 507.64 |
| Tampa-St. Petersburg-Clearwater | 39.4 | 41.0 | 40.9 | 8.90 | 9.49 | 9.46 | 350.66 | 389.09 | 386.91 |
| West Palm Beach-Boca Raton-Delray Beach .............................. | 41.0 | 39.5 | 39.0 | 9.40 | 9.62 | 9.46 | 385.40 | 379.99 | 368.94 |
| Georgla ................................................... | 41.0 | 41.4 | 41.3 | 8.81 | 9.13 | 9.16 | 361.21 | 377.98 | 378.31 |
| Atlanta .................................................................... | 40.9 | 42.1 | 42.0 | 10.04 | 10.43 | 10.52 | 410.64 | 439.10 | 441.84 |
| Savannah ............................................... | 44.2 | 47.3 | 49.4 | 11.58 | 11.56 | 11.52 | 511.84 | 546.79 | 569.09 |
| Hawali | 39.4 | 39.9 | 40.1 | 10.48 | 10.97 | 11.17 | 412.91 | 437.70 | 447.92 |
| Honolulu .............................................................................. | 38.9 | 39.7 | 40.5 | 10.59 | 11.32 | 11.41 | 411.95 | 449.40 | 462.11 |
| Idaho ....................................................................................... | 39.3 | 38.0 | 40.4 | 10.25 | 10.69 | 10.68 | 402.83 | 406.22 | 431.47 |

See footnotes at end of table.

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas-Continued

| State and area | Average weekly hours |  |  | Average hourly earnings |  |  | Average weekly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ \mathbf{1 9 9 0 ^ { p }} \end{gathered}$ |
| Illinols | 41.0 | 42.0 | 41.2 | \$11.23 | \$11.42 | \$11.42 | \$460.43 | \$479.64 | \$470.50 |
| Aurora-Elgin | 41.1 | 41.9 | 40.7 | 10.68 | 10.92 | 10.91 | 438.95 | 457.55 | 444.04 |
| Bloomington-Normal | 40.3 | 41.3 | 40.8 | 11.79 | 12.74 | 12.74 | 475.14 | 528.16 | 519.79 |
| Champaign-Urbana-Rantoul | 39.4 | 39.5 | 39.9 | 9.76 | 9.59 | 9.63 | 384.54 | 378.81 | 384.24 |
| Chicago ............................ | 41.5 | 41.8 | 41.1 | 10.92 | 11.17 | 11.25 | 453.18 | 466.91 | 462.38 |
| Davenport-Rock Island-Moline .... | 39.8 | 41.2 | 41.1 | 13.05 | 13.44 | 13.26 | 519.39 | 553.73 | 544.99 |
| Decatur .......... | 44.6 | 43.0 | 42.1 | 14.31 | 14.83 | 14.96 | 638.23 | 637.69 | 629.82 |
| Joliet ....... | 41.8 | 42.7 | 41.6 | 12.50 | 12.97 | 12.82 | 522.50 | 553.82 | 533.31 |
| Kankakee | 38.0 | 43.4 | 42.0 | 11.89 | 12.00 | 12.03 | 451.82 | 520.80 | 505.26 |
| Lake County | 38.9 | 40.8 | 39.4 | 11.54 | 11.62 | 11.57 | 448.91 | 474.10 | 455.88 |
| Peoria | 43.6 | 43.2 | 42.5 | 13.53 | 13.98 | 13.98 | 589.91 | 603.94 | 594.15 |
| Rockford | 41.2 | 42.7 | 41.7 | 11.67 | 12.75 | 12.17 | 480.80 | 544.43 | 507.49 |
| Springfield ..................................................................................................... | 38.7 | 37.1 | 36.2 | 10.30 | 10.46 | 10.48 | 398.81 | 388.07 | 379,38 |
| Indiana .. | (') | (') | (1) | (') | (1) | (1) | (1) | (') | (') |
| Iowa | 39.7 | 40.4 | 40.2 | 10.88 | 11.23 | 11.35 | 431.94 | 453.69 | 456.27 |
| Cedar Rapids | 38.8 | 38.8 | 39.5 | 12.71 | 13.83 | 13.96 | 493.15 | 538.60 | 551.42 |
| Des Moines.. | 40.0 | 38.6 | 39.7 | 11.92 | 12.35 | 12.68 | 476.80 | 476.71 | 503.40 |
| Dubuque ..... | 40.1 | 40.9 | 41.1 | 11.91 | 12.06 | 12.26 | 477.59 | 493.25 | 503.89 |
| Sioux City ................................................................................... | 40.5 | 39.7 | 39.3 | 8.97 | 8.95 | 8.86 | 363.29 | 355.32 | 348.20 |
| Kansas | 39.9 | 40.7 | 40.1 | 10.61 | 10.82 | 10.90 | 423.34 | 440.37 | 437.09 |
| Topeka | 38.6 | 39.2 | 39.0 | 11.95 | 12.23 | 12.38 | 461.27 | 479.42 | 482.82 |
| Wichita ....................................................................................... | 40.9 | 40.2 | 39.8 | 11.41 | 11.99 | 12.00 | 466.67 | 482.00 | 477.60 |
| Kentucky | 39.3 | 40.1 | 39.9 | 10.41 | 10.72 | 10.75 | 409.11 | 429.87 | 428.93 |
| Lexington-Fayette ..... | 39.9 | 41.3 | 40.5 | 10.50 | 11.15 | 11.16 | 418.95 | 460.50 | 451.98 |
| Louisville ..................................................................................... | 39.7 | 40.4 | 41.8 | 11.97 | 12.46 | 12.34 | 475.21 | 503.38 | 515.81 |
| Louisiana | 42.1 | 43.6 | 42.8 | 11.11 | 11.69 | 11.90 | 467.73 | 509.68 | 509.32 |
| Baton Rouge | 44.0 | 43.5 | 44.2 | 12.91 | 13.39 | 13.78 | 568.04 | 582.47 | 609.08 |
| New Orleans | 40.9 | 42.5 | 41.0 | 10.78 | 11.24 | 11.45 | 440.90 | 477.70 | 469.45 |
| Shreveport ................................................................................. | 40.2 | 43.1 | 44.2 | 11.06 | 11.59 | 11.94 | 444.61 | 499.53 | 527.75 |
| Maine | 39.2 | 40.2 | 39.1 | 10.24 | 10.43 | 10.66 | 401.41 | 419.29 | 416.81 |
| Lewiston-Auburn | 38.5 | 40.1 | 39.1 | 8.54 | 9.00 | 9.34 | 328.79 | 360.90 | 365.19 |
| Portand | 37.2 | 38.5 | 36.0 | 10.45 | 10.68 | 10.85 | 388.74 | 411.18 | 390.60 |
| Maryland | 41.0 | 40.9 | 40.8 | 11.16 | 11.69 | 11.68 | 457.56 | 478.12 | 476.54 |
| Baltimore MSA .......................................................................... | 41.1 | 41.3 | 41.2 | 11.54 | 12.23 | 12.23 | 474.29 | 505.10 | 503.88 |
| Massachusetts | 40.6 | 40.7 | 40.5 | 10.99 | 11.30 | 11.35 | 446.19 | 459.91 | 459.68 |
| Boston. | 40.2 | 40.5 | 40.3 | 11.74 | 12.03 | 11.95 | 471.95 | 487.22 | 481.59 |
| Springfield | 40.9 | 41.6 | 41.3 | 10.56 | 10.82 | 10.83 | 431.90 | 450.11 | 447.28 |
| Worcester.. | 40.9 | 41.3 | 41.3 | 10.81 | 10.98 | 11.09 | 442.13 | 453.47 | 458.02 |
| Michigan | 41.0 | 43.1 | 41.4 | 13.31 | 13.93 | 13.77 | 545.71 | 600.38 | 570.08 |
| Ann Arbor | 44.0 | 44.1 | 42.1 | 14.21 | 15.52 | 14.61 | 625.24 | 684.43 | 615.08 |
| Battle Creek ............ | 43.4 | 42.7 | 42.4 | 14.84 | 15.15 | 14.98 | 644.06 | 646.90 | 635.15 |
| Detroit .................................................................................... | 41.0 | 43.8 | 41.5 | 14.33 | 14.95 | 14.79 | 587.53 | 654.81 | 613.78 |
| Flint ... | 41.4 | 43.7 | 42.6 | 17.09 | 17.83 | 17.61 | 707.53 | 770.43 | 750.19 |
| Grand Rapids | 40.2 | 41.8 | 40.9 | 11.64 | 11.75 | 11.74 | 467.93 | 491.15 | 480.17 |
| Jackson. | 40.0 | 41.3 | 39.3 | 10.88 | 11.12 | 11.18 | 435.20 | 459.26 | 439.37 |
| Kalamazoo | 41.3 | 41.2 | 40.7 | 12.98 | 13.92 | 13.91 | 536.07 | 573.50 | 566.14 |
| Lansing-East Lansing | 39.0 | 43.0 | 40.1 | 14.37 | 16.10 | 15.79 | 560.43 | 892.30 | 633.18 |
| Muskegon | 39.4 | 40.7 | 39.9 | 12.27 | 12.36 | 12.59 | 483.44 | 503.05 | 502.34 |
| Saginaw-Bay City-Midland ........................................................... | 42.6 | 44.3 | 43.2 | 15.18 | 16.29 | 15.88 | 646.67 | 721.65 | 686.02 |
| Minnesota | 40.2 | 40.1 | 40.1 | 10.91 | 11.24 | 11.19 | 438.58 | 450.72 | 448.72 |
| Duluth | 37.9 | 42.8 | 39.1 | 11.63 | 11.48 | 11.77 | 440.78 | 491.34 | 460.21 |
| Minneapolis-St. Paul .. | 40.0 | 40.2 | 39.8 | 11.56 | 11.89 | 11.86 | 462.40 | 477.98 | 472.03 |
| St. Cloud ............................................................................. | 41.4 | 40.9 | 40.6 | 10.24 | 9.88 | 10.00 | 423.94 | 404.09 | 406.00 |
| Mississippl ................................................................................ | 39.1 | 39.9 | 39.0 | 7.96 | 8.38 | 8.36 | 311.24 | 334.36 | 326.04 |
| Jackson ................................................................................................ | 39.2 | 41.4 | 39.7 | 9.03 | 9.40 | 9.37 | 353.98 | 389.16 | 371.99 |

See footnotes at end of table.

## ESTABLISHMENT DATA

## STATE AND AREA HOURS AND EARNINGS

NOT SEASONALLY ADJUSTED
C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas-Continued

| State and area | Average weekly hours |  |  | Average hourly earnings |  |  | Average weekly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June $1990$ | $\begin{gathered} \text { July } \\ \text { 1990 } \end{gathered}$ |
| Missouri | 40.1 | 41.0 | 40.7 | \$10.36 | \$10.78 | \$10.82 | \$415.44 | \$441.98 | \$440.37 |
| Kansas City ... | 40.5 | 41.2 | 40.1 | 11.67 | 11.59 | 11.63 | 472.64 | 477.51 | 466.36 |
| St. Louis | 40.5 | 42.4 | 42.0 | 12.29 | 13.01 | 12.90 | 497.75 | 551.62 | 541.80 |
| Springtield | 41.3 | 41.0 | 41.5 | 9.15 | 9.25 | 9.33 | 377.90 | 379.25 | 387.20 |
| Montana | 38.7 | 38.8 | 38.7 | 11.35 | 11.47 | 11.63 | 439.25 | 442.74 | 450.08 |
| Nebraska | 40.8 | 41.2 | 40.7 | 9.51 | 9.70 | 9.73 | 386.11 | 399.64 | 396.01 |
| Lincoln. | 39.1 | 40.1 | 39.1 | 10.59 | 11.10 | 11.19 | 414.07 | 445.11 | 437.53 |
| Omaha ..... | 41.0 | 41.4 | 40.4 | 10.28 | 10.39 | 10.41 | 421.48 | 430.15 | 420.56 |
| Nevada | 40.3 | 40.5 | 40.7 | 10.35 | 11.08 | 11.20 | 417.11 | 448.74 | 455.84 |
| Las Vegas ......... | 42.5 | 42.2 | 43.1 | 13.23 | 12.91 | 13.14 | 562.28 | 544.80 | 566.33 |
| New Hampshre . | 40.8 | 41.1 | 40.5 | 10.36 | 10.87 | 11.02 | 422.69 | 446.76 | 446.31 |
| Manchester .... | 39.6 | 41.8 | 42.9 | 10.61 | 10.67 | 11.58 | 420.16 | 443.87 | 496.78 |
| Nashua | 40.1 | 40.8 | 40.9 | 12.33 | 14.22 | 14.02 | 494.43 | 577.33 | 573.42 |
| Portsmouth-Dover-Rochester ........ | 41.4 | 42.8 | 41.5 | 9.66 | 9.94 | 10.13 | 399.92 | 423.44 | 420.40 |
| New Jersey | 40.4 | 41.2 | 40.6 | 11.18 | 11.59 | 11.70 | 451.67 | 477.51 | 475.02 |
| New Mexico | 39.8 | 39.3 | 39.8 | 8.81 | 8.99 | 8.90 | 350.64 | 353.31 | 354.22 |
| Albuquerque ....................................................................... | 39.2 | 40.4 | 40.1 | 8.78 | 9.33 | 9.34 | 344.18 | 376.93 | 374.53 |
| New York | 39.4 | 40.0 | 39.5 | 10.70 | 11.15 | 11.15 | 421.58 | 446.00 | 440.43 |
| Albany-Schenectady-Troy .... | 38.7 | 40.8 | 40.3 | 11.34 | 11.76 | 11.87 | 438.86 | 479.81 | 478.36 |
| Binghamton. | 41.0 | 40.5 | 39.7 | 9.63 | 9.64 | 9.73 | 394.83 | 390.42 | 386.28 |
| Buftalo . | 40.7 | 42.5 | 41.3 | 12.81 | 13.45 | 13.39 | 521,37 | 571.63 | 553.01 |
| Eimira | 39.2 | 39.8 | 39.6 | 9.27 | 9.87 | 9.80 | 363.38 | 390.85 | 388.08 |
| Glens Falls | (') | (1) | (') | (1) | (1) | ${ }^{(1)}$ | (') | (') | (1) |
| Nassau-Suffolk | 39.3 | 40.1 | 39.3 | 11.58 | 11.77 | 11.77 | 455.09 | 471.98 | 462.56 |
| New York PMSA | 36.9 | 37.4 | 37.0 | 9.89 | 10.41 | 10.44 | 364.94 | 389.33 | 386.28 |
| New York City ... | 36.4 | 37.1 | 36.7 | 9.80 | 10.18 | 10.22 | 356.72 | 377.68 | 375.07 |
| Niagara Falls | 40.3 | 41.2 | 40.6 | 13.91 | 14.50 | 14.47 | 560.57 | 597.40 | 587.48 |
| Orange County . | 39.2 | 41.0 | 40.7 | 9.21 | 9.28 | 9.50 | 361.03 | 380.48 | 386.65 |
| Poughkeepsie .. | 40.3 | 41.0 | 40.4 | 10.82 | 10.74 | 10.65 | 436.05 | 440.34 | 430.26 |
| Rochester | 42.8 | 42.2 | 42.1 | 12.32 | 13.01 | 12.88 | 527.30 | 549.02 | 542.25 |
| Rockland County. | 40.6 | 39.8 | 40.1 | 7.92 | 9.37 | 9.66 | 323.14 | 372.93 | 387.37 |
| Syracuse | 40.2 | 40.9 | 40.5 | 12.29 | 12.36 | 12.12 | 494.06 | 505.52 | 490.86 |
| Utica-Rome | 40.1 | 40.7 | 39.4 | 9.88 | 10.38 | 10.45 | 396.19 | 422.47 | 411.73 |
| Westchester County ...................................................................... | 40.1 | 38.9 | 38.0 | 11.46 | 12.54 | 12.50 | 459.55 | 487.81 | 475.00 |
| North Carolina | 39.9 | 40.3 | 39.5 | 8.42 | 8.75 | 8.78 | 335.96 | 352.63 | 346.81 |
| Asheville | 40.9 | 41.6 | 41.0 | 8.48 | 8.77 | 8.85 | 346.83 | 364.83 | 362.85 |
| Charlotte-Gastonia-Rock Hill | 40.1 | 40.0 | 39.4 | 9.00 | 9.32 | 9.34 | 360.90 | 372.80 | 368.00 |
| Greensboro-Winston-Salem-High Point ........................................... | 38.9 | 38.7 | 38.3 | 9.17 | 9.30 | 9.38 | 356.71 | 359.91 | 359.25 |
| Raleigh-Durham ........................................................................ | 41.2 | 41.9 | 42.4 | 9.50 | 10.01 | 10.00 | 391.40 | 419.42 | 424.00 |
| North Dakota | 39.6 | 40.2 | 37.9 | 8.84 | 8.91 | 8.91 | 350.06 | 358.18 | 337.69 |
| Fargo-Moorhead ........................................................................ | 39.5 | 38.6 | 42.3 | 9.38 | 8.80 | 9.07 | 370.51 | 339.68 | 383.66 |
| Ohio | 41.9 | 43.0 | 42.4 | 12.18 | 12.74 | 12.62 | 509.50 | 547.82 | 535.09 |
| Akron | 42.1 | 43.3 | 42.7 | 11.45 | 12.11 | 12.01 | 482.05 | 524.36 | 512.83 |
| Canton | 40.8 | 42.4 | 42.3 | 11.15 | 11.50 | 11.47 | 454.92 | 487.60 | 485.18 |
| Cincinnati | 42.1 | 43.6 | 43.0 | 11.50 | 12.11 | 12.01 | 484.15 | 528.00 | 516.43 |
| Cleveland ............................................ | 41.9 | 43.4 | 42.8 | 11.57 | 12.31 | 12.16 | 484.78 | 534.25 | 520.45 |
| Columbus | 41.3 | 42.0 | 42.1 | 12.03 | 12.40 | 12.43 | 496.84 | 520.80 | 523.30 |
| Dayton-Springfield | 42.3 | 43.7 | 42.3 | 12.75 | 13.86 | 13.53 | 539.33 | 605.68 | 572.32 |
| Toledo ......................................................... | 42.8 | 43.4 | 43.0 | 13.23 | 13.50 | 13.46 | 566.24 | 585.90 | 578.78 |
| Youngstown-Warren .................................................................... | 42.0 | 43.3 | 42.2 | 13.84 | 14.69 | 14.37 | 581.28 | 636.08 | 606.41 |
| Oklahoma | 41.1 | 40.3 | 39.7 | 10.49 | 10.86 | 10.63 | 431.14 | 437.66 | 422.01 |
| Oklahoma City ............. | 43.1 | 40.8 | 40.0 | 11.42 | 12.21 | 11.35 | 492.20 | 498.17 | 454.00 |
| Tulsa ....................................................................................... | 40.5 | 41.4 | 40.5 | 10.17 | 11.20 | 11.44 | 411.89 | 463.68 | 463.32 |
| Oregon .............................................................................. | 38.5 | 39.2 | 38.8 | 10.91 | 11.03 | 11.14 | 420.04 | 432.38 | 432.23 |
| Eugene-Springfield | 38.1 | 38.1 | 37.3 | 10.82 | 10.83 | 10.92 | 412.24 | 412.62 | 407.32 |
| Portland ........... | 39.4 | 39.1 | 39.7 | 10.99 | 11.23 | 11.36 | 433.01 | 439.09 | 450.99 |
| Salem ................................................................... | 36.0 | 37.6 | 36.9 | 8.93 | 9.67 | 9.27 | 339.34 | 363.59 | 342.06 |

See footnotes at end of table.

C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas-Continued

| State and area | Average weekly hours |  |  | Average hourly earnings |  |  | Average weekly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{aligned} & \text { July } \\ & \text { 1990 } \end{aligned}$ |
| Pennsyivania | 40.8 | 40.8 | 40.6 | \$10.64 | \$11.02 | \$11.07 | \$434.11 | \$449.62 | \$449.44 |
| Allentown-Bethlehem .... | 40.5 | 39.7 | 39.3 | 10.72 | 10.93 | 11.07 | 434.16 | 433.92 | 435.05 |
| Altoona ... | 40.0 | 39.4 | 40.2 | 9.37 | 9.66 | 9.65 | 374.80 | 380.60 | 387.93 |
| Beaver County | 45.0 | 43.4 | 43.6 | 10.70 | 11.12 | 10.85 | 481.50 | 482.61 | 473.06 |
| Ere .. | 44.4 | 43.1 | 44.3 | 11.31 | 11.55 | 11.82 | 502.16 | 497.81 | 523.63 |
| Harrisburg-Lebanon-Carlisle | 40.0 | 41.5 | 41.0 | 10.65 | 11.22 | 11.30 | 426.00 | 465.63 | 463.30 |
| Johnstown ... | 38.4 | 37.8 | 37.5 | 8.08 | 8.48 | 8.39 | 310.27 | 320.54 | 314.63 |
| Lancaster.. | 40.2 | 40.4 | 39.9 | 10.66 | 11.00 | 11.02 | 428.53 | 444.40 | 439.70 |
| Philadelphia PMSA | 40.8 | 40.5 | 40.2 | 11.79 | 12.01 | 12.10 | 481.03 | 486.41 | 486.42 |
| Pittsburgh | 41.8 | 42.0 | 42.1 | 11.12 | 11.40 | 11.40 | 464.82 | 478.80 | 479.94 |
| Reading ... | 40.8 | 41.6 | 40.9 | 11.02 | 11.51 | 11.54 | 449.62 | 478.82 | 471.99 |
| Scranton-Wilkes-Barre | 39.6 | 39.4 | 39.9 | 9.34 | 9.63 | 9.73 | 369.86 | 379.42 | 388.23 |
| Sharon | 41.0 | 42.8 | 42.3 | 11.82 | 11.82 | 11.90 | 484.62 | 505.90 | 503.37 |
| State College | 39.4 | 40.3 | 40.4 | 9.44 | 9.91 | 9.74 | 371.94 | 399.37 | 393.50 |
| Williamsport. | 40.4 | 40.0 | 39.5 | 9.44 | 9.57 | 9.55 | 381.38 | 382.80 | 377.23 |
| York ............................................................................................... | 41.9 | 41.2 | 41.3 | 10.15 | 10.67 | 10.55 | 425.29 | 439.60 | 435.72 |
| Rhode Island | 38.1 | 40.2 | 39.8 | 9.11 | 9.38 | 9.60 | 347.09 | 377.08 | 382.08 |
| Pawtucket-Woonsocket-Atleboro | 40.0 | 39.3 | 38.1 | 8.49 | 9.01 | 9.10 | 339.60 | 354.09 | 346.71 |
| Providence ........ | 38.8 | 39.9 | 39.6 | 8.67 | 8.91 | 9.26 | 336.40 | 355.51 | 366.70 |
| South Carolina | 41.2 | 40.6 | 40.4 | 8.55 | 8.85 | 8.88 | 352.26 | 359.31 | 358.75 |
| Charleston ... | 39.4 | 39.9 | 39.8 | 9.27 | 9.47 | 9.47 | 365.24 | 377.85 | 376.91 |
| Columbia | 41.2 | 42.1 | 41.9 | 8.69 | 9.10 | 9.10 | 358.03 | 383.11 | 381.29 |
| Greenville-Spartanburg ........ | 41.1 | 41.3 | 41.2 | 8.37 | 8.77 | 8.79 | 344.01 | 362.20 | 362.15 |
| South Dakota | 41.6 | 41.8 | 40.8 | 8.28 | 8.38 | 8.31 | 344.45 | 350.28 | 339.05 |
| Sioux Falls .............. | 47.3 | 43.2 | 42.4 | 8.53 | 8.73 | 8.68 | 403.47 | 377.14 | 368.03 |
| Tennessee | 40.7 | 39.3 | 39.3 | 9.18 | 9.54 | 9.59 | 373.63 | 374.92 | 376.89 |
| Chattanooga | 40.1 | 40.9 | 41.0 | 8.37 | 8.74 | 8.75 | 335.64 | 357.47 | 358.75 |
| Johnson City-Kingsport-Bristol | 43.8 | 40.6 | 44.9 | 9.84 | 9.51 | 9.81 | 430.99 | 386.11 | 440.47 |
| Knoxville | 39.6 | 37.2 | 36.3 | 9.33 | 8.98 | 8.94 | 369.47 | 334.06 | 324.52 |
| Memphis | 43.4 | 39.7 | 39.2 | 9.36 | 9.86 | 9.90 | 406.22 | 391.44 | 388.08 |
| Nashville ............................................................................. | 41.3 | 42.2 | 41.6 | 10.06 | 11.47 | 11.49 | 415.48 | 484.03 | 477.98 |
| Texas ... | 41.6 | 41.7 | 41.3 | 10.29 | 10.54 | 10.59 | 428.06 | 439.52 | 437.37 |
| Dallas. | 42.0 | 41.9 | 41.5 | 10.42 | 10.49 | 10.49 | 437.64 | 439.53 | 435.34 |
| Ft. Worth-Arlington | 40.9 | 41.0 | 40.5 | 10.99 | 11.16 | 11.21 | 449.49 | 457.56 | 454.01 |
| Houston | 44.0 | 44.2 | 44.0 | 11.72 | 12.14 | 12.17 | 515.68 | 536.59 | 535.48 |
| San Antonio . | 39.7 | 40.4 | 39.6 | 7.52 | 7.83 | 7.89 | 298.54 | 316.33 | 312.44 |
| Utah ..................................................................................... | 39.5 | 39.5 | 39.6 | 10.23 | 10.26 | 10.32 | 404.09 | 405.27 | 406.67 |
| Salt Lake City-Ogden ... | 39.9 | 39.6 | 39.9 | 10.01 | 10.25 | 10.39 | 399.40 | 405.90 | 414.56 |
| Vermont | 40.3 | 41.0 | 39.2 | 10.02 | 10.54 | 10.59 | 403.81 | 432.14 | 415.13 |
| Burlington | 40.8 | 40.5 | 39.9 | 10.35 | 11.14 | 11.04 | 422.28 | 451.17 | 440.50 |
| Virginia ................................................................................ | 40.8 | 40.7 | 40.0 | 9.69 | 10.07 | 10.18 | 395.35 | 409.85 | 407.20 |
| Bristol | 42.8 | 39.4 | 39.6 | 7.81 | 8.44 | 8.62 | 334.27 | 332.54 | 341.35 |
| Charlottesville .. | 41.7 | 41.9 | 39.9 | 8.43 | 8.82 | 8.80 | 351.53 | 369.56 | 351.12 |
| Danville .. | 42.5 | 39.9 | 41.1 | 9.62 | 9.66 | 9.89 | 408.85 | 385.43 | 406.48 |
| Lynchburg ...................................................................................... | 42.0 | 41.8 | 42.0 | 9.45 | 9.88 | 10.39 | 396.90 | 412.98 | 436.38 |
| Northern Virginia | 39.6 | 40.5 | 40.6 | 10.64 | 11.07 | 11.22 | 421.34 | 448.34 | 455.53 |
| Richmond-Petersburg ... | 41.8 | 43.6 | 42.8 | 12.60 | 13.39 | 13.40 | 526.68 | 583.80 | 573.52 |
| Roanoke ................................................................................. | 41.8 | 40.7 | 40.5 | 11.41 | 11.68 | 11.88 | 476.94 | 475.38 | 481.14 |
| Washington ............................................................... | 40.4 | 40.5 | 39.9 | 12.37 | 12.76 | 12.90 | 499.75 | 516.78 | 514.71 |
| West Virginia ...................................................................... | 39.7 | 41.1 | 40.4 | 11.26 | 11.42 | 11.69 | 447.82 | 469.36 | 472.28 |
| Charleston.. | 42.2 | 43.9 | 44.5 | 13.58 | 13.32 | 13.64 | 573.08 | 584.75 | 606.98 |
| Huntington-Ashland . | 39.6 | 40.9 | 40.7 | 12.92 | 13.54 | 13.51 | 511.63 | 553.79 | 549.86 |
| Parkersburg-Marietta ............................................................... | 41.6 | 43.0 | 41.0 | 13.08 | 13.08 | 13.23 | 544.13 | 562.44 | 542.43 |
| Wheeling ............................................................................................ | 41.1 | 42.3 | 41.0 | 13.55 | 13.56 | 13.47 | 556.91 | 573.59 | 552.27 |

See footnotes at end of table.

## ESTABLISHMENT DATA

STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED
C-8. Average hours and earnings of production workers on manufacturing payrolls in States and selected areas-Continued

| State and area | Average weekly hours |  |  | Average hourly earnings |  |  | Average weekly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | July <br> 1989 | June <br> 1990 | $\begin{aligned} & \text { July } \\ & \text { 1990 } \end{aligned}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | July <br> 1989 | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\text {P }} \end{gathered}$ |
| Wisconsin | 41.2 | 41.6 | 41.3 | \$10.61 | \$11.06 | \$11.04 | \$437.13 | \$460.10 | \$455.95 |
| Appleton-Oshkosh .. | 43.2 | 43.7 | 43.0 | 11.64 | 11.99 | 11.96 | 502.85 | 523.96 | 514.28 |
| Eau Claire | 43.4 | 45.2 | 45.4 | 10.89 | 11.32 | 11.52 | 472.63 | 511.66 | 523.01 |
| Green Bay | 42.6 | 41.5 | 40.4 | 11.08 | 12.22 | 12.76 | 472.01 | 507.13 | 515.50 |
| Janesville-Beloit. | 37.8 | 36.7 | 35.9 | 12.72 | 11.95 | 11.80 | 480.82 | 438.57 | 423.62 |
| Kenosha ................................................................................... | 41.5 | 42.0 | 41.4 | 11.41 | 11.82 | 11.11 | 473.52 | 496.44 | 459.95 |
| La Crosse ... | 40.9 | 41.0 | 41.2 | 9.65 | 9.72 | 9.72 | 394.69 | 398.52 | 400.46 |
| Madison ...... | 39.1 | 40.1 | 41.2 | 10.19 | 10.31 | 10.36 | 398.43 | 413.43 | 426.83 |
| Milwaukee | 41.1 | 41.7 | 41.8 | 11.60 | 11.81 | 11.86 | 476.76 | 492.48 | 495.75 |
| Racine | 38.6 | 40.2 | 39.2 | 10.51 | 11.50 | 11.12 | 405.69 | 462.30 | 435.90 |
| Sheboygan | 43.2 | 41.6 | 41.9 | 10.40 | 10.87 | 10.73 | 449.28 | 452.19 | 449.59 |
| Wausau ........... | 42.3 | 44.4 | 42.9 | 10.42 | 10.99 | 10.88 | 440.77 | 487.96 | 466.75 |
| Wyoming ................................................................................... | 40.3 | 40.5 | 38.8 | 11.01 | 10.97 | 11.25 | 443.70 | 444.29 | 436.50 |
| Puerto Rico .................................................................................. | 38.9 | 39.3 | 39.5 | 5.76 | 5.97 | 6.03 | 224.06 | 234.62 | 238.19 |
| Virgin Islands .......................................................................................... | 41.7 | 42.9 | 42.5 | 10.80 | 12.13 | 11.91 | 450.36 | 520.38 | 506.18 |

1 Not available.
D = preliminary.
NOTE: Area definitions are published annually in the May issue of this
publication. All State and area data have been adjusted to March 1989 benchmarks, and industry detail are classified in accordance with the 1987 Standard Industrial Classification (SIC) Manual.

C-9. Hours of wage and salary workers in nonagricultural establishments by major industry, seasonally adjusted

| Industry | Millions of hours (annual rate) ${ }^{1}$ |  |  | Percent change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June 1990' | $\begin{gathered} \text { July } \\ 1990^{\prime} \end{gathered}$ | Aug. $1990^{\text {D }}$ | $\begin{gathered} \text { Aug. } 1989 \\ \text { to } \\ \text { Aug. } 1990^{\triangleright} \end{gathered}$ | $\begin{gathered} \text { June } 1990 \\ \text { to } \\ \text { July } 1990^{\prime} \end{gathered}$ | $\begin{aligned} & \text { July } 1990 \\ & \text { to } \\ & \text { Aug. } 1990^{p} \end{aligned}$ |
| Total ....................................................... | 206,115 | 205,615 | 205,034 | 2.0 | -0.2 | $-0.3$ |
| Private sector ................................................. | 168,611 | 168,268 | 168,004 | 1.5 | -. 2 | -. 2 |
| Mining ............................................................ | 1,718 | 1,688 | 1,680 | 5.5 | -1.7 | -. 5 |
| Construction ................................................. | 10,551 | 10,255 | 10,311 | -. 3 | -2.8 | . 6 |
| Manufacturing ............................................... | 40,831 | 40,726 | 40,657 | -1.8 | -. 3 | -. 2 |
| Durable goods ............................................ | 24,134 | 24,078 | 23,972 | -2.5 | -. 2 | -. 4 |
| Nondurable goods ...................................... | 16,697 | 16,648 | 16,685 | -. 7 | -. 3 | . 2 |
| Transportation and public utilities .................. | 11,916 | 11,844 | 11,892 | 6.5 | -. 6 | . 4 |
| Wholesale trade ........................................... | 12,646 | 12,634 | 12,613 | 1.4 | -. 1 | -. 2 |
| Retail trade . | 29,892 | 29,826 | 29,596 | . 4 | -. 2 | -. 8 |
| Finance, insurance, and real estate .............. | 12,741 | 12,881 | 12,720 | 1.4 | 1.1 | -1.3 |
| Services ........................................................ | 48,316 | 48,414 | 48,534 | 4.4 | . 2 | . 2 |
| Government .................................................... | 37,505 | 37,347 | 37,031 | 4.1 | -. 4 | -. 8 |

[^16]NOTE: 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, BLS Bulletin 2285, chapter 10, Productivity Measures: Business Sector and Major Subsectors. SOURCE: Office of Productivity and Technology (202 523 9261).

## PRODUCTIVITY DATA SEASONALLY ADJUSTED

C-10. Indexes of productivity, hourly compensation, unit costs, and prices, seasonally adjusted
$(1982=100)$

| Item | Annual average |  | Quarterly index |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1988 | 1989 | 1987 | 1988 |  |  |  | 1989 |  |  |  | 1990 |  |
|  |  |  | IV | 1 | 11 | III | IV | 1 | II | III | IV | 1 | II' |
| Business sector |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons | 113.0 | 112.8 | 112.0 | 113.1 | 112.8 | 113.5 | 113.1 | 113.3 | 113.3 | 112.8 | 112.3 | 111.9 | 112.3 |
| Output | 133.0 | 135.8 | 129.4 | 131.2 | 132.6 | 133.8 | 134.5 | 135.6 | 135.9 | 136.1 | 135.5 | 136.0 | 136.4 |
| Hours | 117.7 | 120.4 | 115.5 | 115.9 | 117.6 | 117.9 | 118.8 | 119.7 | 120.0 | 120.6 | 120.7 | 121.5 | 121.4 |
| Compensation per hour | 129.1 | 133.1 | 125.6 | 126.9 | 128.6 | 130.3 | 131.5 | 132.2 | 133.0 | 133.4 | 134.3 | 135.5 | 137.5 |
| Real compensation per hour | 105.3 | 103.5 | 105.0 | 105.3 | 105.5 | 105.6 | 105.5 | 104.6 | 103.7 | 103.3 | 103.0 | 101.9 | 102.5 |
| Unit labor costs ................... | 114.3 | 118.0 | 112.1 | 112.2 | 114.0 | 114.8 | 116.3 | 116.7 | 117.4 | 118.2 | 119.6 | 121.1 | 122.4 |
| Unit nonlabor payments | 126.5 | 133.1 | 123.2 | 124.5 | 125.0 | 127.4 | 128.8 | 130.8 | 133.2 | 133.8 | 134.4 | 135.5 | 137.0 |
| Implicit price deflator ........ | 118.2 | 122.8 | 115.7 | 116.2 | 117.5 | 118.9 | 120.3 | 121.2 | 122.5 | 123.3 | 124.3 | 125.8 | 127.1 |
| Nonfarm business sector |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons | 112.3 | 111.9 | 110.9 | 112.1 | 111.9 | 112.7 | 112.8 | 112.4 | 112.2 | 112.0 | 111.4 | 110.8 | 111.2 |
| Output. | 134.0 | 136.7 | 129.7 | 131.6 | 133.4 | 134.8 | 136.0 | 136.4 | 136.8 | 137.1 | 136.3 | 136.8 | 137.3 |
| Hours | 119.3 | 122.2 | 116.9 | 117.4 | 119.2 | 119.6 | 120.5 | 121.4 | 121.9 | 122.4 | 122.4 | 123.5 | 123.5 |
| Compensation per hour | 128.3 | 132.1 | 124.9 | 126.2 | 127.7 | 129.4 | 130.8 | 131.4 | 131.9 | 132.5 | 133.4 | 134.4 | 136.3 |
| Real compensation per hour | 104.7 | 102.8 | 104.4 | 104.7 | 104.8 | 104.9 | 104.9 | 104.0 | 102.9 | 102.6 | 102.3 | 101.1 | 101.6 |
| Unit labor costs | 114.3 | 118.1 | 112.6 | 112.6 | 114.1 | 114.8 | 115.9 | 116.9 | 117.5 | 118.3 | 119.8 | 121.3 | 122.6 |
| Unit nonlabor payments | 127.4 | 133.7 | 124.1 | 125.4 | 125.8 | 127.4 | 130.6 | 130.9 | 133.9 | 134.7 | 135.3 | 135.7 | 137.5 |
| Implicit price deflator ................................ | 118.4 | 123.0 | 116.2 | 116.6 | 117.8 | 118.8 | 120.5 | 121.4 | 122.7 | 123.5 | 124.7 | 125.8 | 127.3 |
| Manufacturing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons | 127.6 | 130.1 | 126.1 | 126.7 | 127.5 | 128.8 | 129.2 | 130.1 | 130.9 | 130.5 | 131.3 | 133.0 | 134.3 |
| Output | 139.9 | 144.0 | 135.5 | 136.9 | 138.9 | 141.1 | 142.6 | 143.7 | 144.5 | 144.0 | 143.5 | 144.2 | 145.6 |
| Hours | 109.6 | 110.6 | 107.4 | 108.0 | 108.9 | 109.5 | 110.3 | 110.5 | 110.4 | 110.4 | 109.3 | 108.4 | 108.4 |
| Compensation per hour | 123.4 | 126.7 | 120.4 | 122.4 | 123.1 | 124.3 | 125.7 | 126.5 | 126.6 | 127.6 | 128.4 | 129.2 | 131.2 |
| Real compensation per hour | 100.6 | 98.6 | 100.7 | 101.5 | 100.9 | 100.7 | 100.8 | 100.2 | 98.7 | 98.8 | 98.5 | 97.2 | 97.8 |
| Unit labor costs ..................... | 96.7 | 97.4 | 95.5 | 96.6 | 96.5 | 96.5 | 97.3 | 97.3 | 96.7 | 97.8 | 97.8 | 97.1 | 97.7 |
| Durable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons .................. | 139.9 | 143.3 | 138.3 | 139.3 | 140.3 | 141.4 | 142.2 | 142.9 | 144.8 | 144.7 | 144.8 | 146.6 | 149.2 |
| Output | 155.1 | 159.8 | 149.0 | 150.8 | 154.0 | 156.6 | 158.9 | 159.7 | 160.8 | 160.2 | 158.5 | 159.1 | 161.7 |
| Hours | 110.9 | 111.5 | 107.7 | 108.3 | 109.8 | 110.7 | 111.7 | 111.8 | 111.0 | 110.7 | 109.4 | 108.5 | 108.4 |
| Compensation per hour | 121.9 | 125.4 | 119.8 | 121.9 | 121.7 | 122.8 | 124.4 | 125.6 | 125.5 | 126.8 | 127.5 | 128.0 | 130.2 |
| Real compensation per hour ...................... | 99.4 | 97.6 | 100.2 | 101.1 | 99.8 | 99.5 | 99.8 | 99.4 | 97.9 | 98.2 | 97.8 | 96.3 | 97.0 |
| Unit labor costs ........................................ | 87.1 | 87.5 | 86.6 | 87.5 | 86.8 | 86.8 | 87.5 | 87.9 | 86.7 | 87.6 | 88.0 | 87.3 | 87.3 |
| Nondurable goods |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons .................. | 110.9 | 112.3 | 109.7 | 110.0 | 110.4 | 111.7 | 111.6 | 112.6 | 112.2 | 111.4 | 113.3 | 114.9 | 114.4 |
| Output ..................................................... | 119.6 | 122.8 | 117.5 | 118.3 | 118.8 | 120.4 | 120.9 | 122.3 | 122.8 | 122.5 | 123.7 | 124.3 | 124.2 |
| Hours | 107.8 | 109.3 | 107.1 | 107.6 | 107.7 | 107.8 | 108.4 | 108.6 | 109.5 | 110.0 | 109.1 | 108.3 | 108.5 |
| Compensation per hour | 125.6 | 128.6 | 121.4 | 123.1 | 125.1 | 126.6 | 127.6 | 127.9 | 128.2 | 128.8 | 129.9 | 131.1 | 132.8 |
| Real compensation per hour ..................... | 102.5 | 100.1 | 101.5 | 102.1 | 102.7 | 102.6 | 102.3 | 101.2 | 100.0 | 99.7 | 99.6 | 98.6 | 99.0 |
| Unit labor costs ........................................ | 113.2 | 114.5 | 110.6 | 111.9 | 113.4 | 113.3 | 114.4 | 113.6 | 114.3 | 115.6 | 114.6 | 114.2 | 116.1 |
| Nonfinancial corporations |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per all-employee hour .................... | 113.4 | 111.9 | 112.9 | 113.8 | 113.7 | 113.5 | 113.2 | 112.5 | 112.1 | 112.3 | 111.1 | 110.5 | 111.0 |
| Output ................. | 134.9 | 136.4 | 131.3 | 133.2 | 134.6 | 135.4 | 136.3 | 136.2 | 136.4 | 137.1 | 135.9 | 136.0 | 136.5 |
| Hours. | 119.0 | 121.9 | 116.3 | 117.1 | 118.4 | 119.3 | 120.4 | 121.1 | 121.7 | 122.1 | 122.3 | 123.0 | 123.0 |
| Compensation per hour ............................ | 125.8 | 129.6 | 122.6 | 123.8 | 125.3 | 126.8 | 127.9 | 128.9 | 129.4 | 130.0 | 130.7 | 131.4 | 133.3 |
| Real compensation per hour ..................... | 102.6 | 100.9 | 102.5 | 102.7 | 102.8 | 102.8 | 102.6 | 102.0 | 100.9 | 100.7 | 100.2 | 98.8 | 99.3 |
| Total unit costs ........................................ | 109.0 | 114.7 | 106.8 | 107.1 | 108.2 | 109.7 | 110.9 | 112.7 | 114.1 | 115.0 | 117.0 | 118.1 | 119.2 |
| Unit labor costs. | 111.0 | 115.8 | 108.6 | 108.8 | 110.2 | 111.8 | 113.0 | 114.6 | 115.4 | 115.7 | 117.6 | 118.9 | 120.1 |
| Unit nonlabor costs | 103.8 | 111.8 | 102.2 | 102.6 | 102.9 | 104.2 | 105.6 | 108.0 | 110.6 | 113.3 | 115.2 | 116.2 | 116.8 |
| Unit profits ...... | 176.3 | 157.9 | 174.0 | 176.6 | 178.1 | 171.4 | 179.1 | 162.3 | 162.9 | 159.3 | 147.2 | 147.6 | 152.9 |
| Implicit price deflator ................................ | 113.2 | 117.4 | 111.0 | 111.4 | 112.6 | 113.5 | 115.2 | 115.9 | 117.1 | 117.8 | 118.9 | 120.0 | 121.3 |

$r=$ revised
SOURCE: Office of Productivity and Technology (202 523 9261)

C-11. Percent changes from the preceding quarter and year in productivity, hourly compensation, unit costs, and prices, seasonally adjusted annual rates

| Item | Percent change from |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Previous quarter |  |  |  |  |  | Same quarter, previous year |  |  |  |  |  |
|  | $\stackrel{1}{1989}$ | $\begin{gathered} \text { II } \\ 1989 \end{gathered}$ | $\begin{gathered} \text { III } \\ 1989 \end{gathered}$ | $\begin{gathered} \text { IV } \\ 1989 \end{gathered}$ | $\begin{gathered} 1 \\ 1990 \end{gathered}$ | $\begin{gathered} 11 \\ 1990^{\prime} \end{gathered}$ | $\begin{gathered} 1 \\ 1989 \end{gathered}$ | $\begin{gathered} \text { II } \\ 1989 \end{gathered}$ | $\begin{gathered} \prime \prime \prime \\ 1989 \end{gathered}$ | $\begin{gathered} \text { IV } \\ 1989 \end{gathered}$ | $\begin{gathered} 1 \\ 1990 \end{gathered}$ | $\begin{gathered} \\| \\ 1990^{\prime} \end{gathered}$ |
| Business sector |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons ............................. | 0.5 | 0.0 | -1.5 | -2.0 | -1.5 | 1.7 | 0.1 | 0.4 | -0.6 | -0.7 | -1.2 | -0.8 |
| Output ............................................................... | 3.5 | . 9 | . 6 | -1.8 | 1.4 | 1.4 | 3.4 | 2.5 | 1.7 | . 8 | . 3 | . 4 |
| Hours ........................................................... | 3.0 | . 9 | 2.1 | . 1 | 2.9 | -. 3 | 3.3 | 2.0 | 2.3 | 1.5 | 1.5 | 1.2 |
| Compensation per hour | 2.0 | 2.4 | 1.3 | 2.6 | 3.8 | 6.1 | 4.1 | 3.4 | 2.4 | 2.1 | 2.5 | 3.4 |
| Real compensation per hour ............................... | -3.3 | -3.4 | -1.5 | -1.4 | -4.0 | 2.4 | -. 6 | -1.7 | -2.2 | -2.4 | -2.6 | -1.2 |
| Unit labor costs .................................................. | 1.5 | 2.5 | 2.8 | 4.6 | 5.3 | 4.4 | 4.0 | 3.0 | 2.9 | 2.8 | 3.8 | 4.3 |
| Unit nonlabor payments | 6.3 | 7.7 | 1.8 | 1.6 | 3.3 | 4.7 | 5.1 | 6.6 | 5.1 | 4.3 | 3.6 | 2.8 |
| Implicit price deflator .......................................... | 3.1 | 4.3 | 2.5 | 3.5 | 4.6 | 4.5 | 4.4 | 4.2 | 3.7 | 3.4 | 3.7 | 3.8 |
| Nonfarm business sector |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons ............................. | -1.7 | -. 5 | -. 8 | -2.2 | -1.9 | 1.5 | . 2 | . 3 | -. 6 | -1.3 | -1.4 | -. 9 |
| Output | 1.2 | 1.3 | . 6 | -2.1 | 1.4 | 1.5 | 3.6 | 2.6 | 1.7 | . 3 | . 3 | . 4 |
| Hours | 3.0 | 1.7 | 1.5 | . 1 | 3.4 | . 0 | 3.4 | 2.3 | 2.3 | 1.6 | 1.7 | 1.2 |
| Compensation per hour | 2.0 | 1.5 | 1.8 | 2.7 | 3.2 | 5.8 | 4.1 | 3.2 | 2.4 | 2.0 | 2.3 | 3.4 |
| Real compensation per hour | -3.3 | -4.2 | -1.0 | -1.3 | -4.5 | 2.0 | -. 6 | -1.8 | -2.2 | -2.4 | -2.8 | -1.2 |
| Unit labor costs .. | 3.8 | 2.0 | 2.7 | 5.1 | 5.2 | 4.3 | 3.9 | 3.0 | 3.0 | 3.4 | 3.7 | 4.3 |
| Unit nonlabor payments | 1.0 | 9.3 | 2.6 | 1.6 | 1.2 | 5.4 | 4.4 | 6.4 | 5.8 | 3.6 | 3.6 | 2.7 |
| Implicit price deflator .......................................... | 2.8 | 4.4 | 2.6 | 3.9 | 3.8 | 4.6 | 4.1 | 4.1 | 3.9 | 3.4 | 3.7 | 3.7 |
| Manufacturing |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons. | 2.6 | 2.6 | -1.4 | 2.8 | 5.1 | 4.0 | 2.6 | 2.6 | 1.3 | 1.6 | 2.3 | 2.6 |
| Output | 3.1 | 2.4 | -1.4 | -1.3 | 1.8 | 4.0 | 4.9 | 4.1 | 2.1 | . 7 | . 4 | . 7 |
| Hours | . 5 | -. 2 | -. 1 | -4.0 | -3.1 | . 1 | 2.3 | 1.4 | . 8 | -1.0 | -1.9 | -1.8 |
| Compensation per hour. | 2.6 | . 1 | 3.2 | 2.7 | 2.5 | 6.3 | 3.4 | 2.9 | 2.6 | 2.1 | 2.1 | 3.6 |
| Real compensation per hour | -2.7 | -5.6 | . 3 | -1.3 | -5.2 | 2.5 | -1.3 | -2.2 | -1.9 | -2.4 | -3.0 | -1.0 |
| Unit labor costs .................................................. | . 0 | -2.5 | 4.6 | -. 1 | -2.5 | 2.2 | . 8 | . 2 | 1.3 | . 5 | -. 2 | 1.0 |
| Durable goods |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons ............................. | 2.0 | 5.5 | -. 4 | . 5 | 4.9 | 7.3 | 2.6 | 3.3 | 2.3 | 1.9 | 2.6 | 3.0 |
| Output ............................ | 2.2 | 2.8 | -1.7 | -4.1 | 1.6 | 6.8 | 5.9 | 4.5 | 2.3 | -. 2 | -. 4 | . 6 |
| Hours | . 2 | -2.6 | -1.2 | -4.6 | -3.2 | -. 5 | 3.2 | 1.2 | . 0 | -2.1 | -2.9 | -2.4 |
| Compensation per hour ....................................... | 3.6 | -. 1 | 4.1 | 2.3 | 1.7 | 6.9 | 3.0 | 3.1 | 3.3 | 2.5 | 2.0 | 3.7 |
| Real compensation per hour ............................... | -1.7 | -5.8 | 1.2 | -1.7 | -5.9 | 3.1 | -1.7 | -1.9 | -1.3 | -2.0 | -3.1 | -. 9 |
| Unit labor costs ................................................... | 1.6 | -5.3 | 4.5 | 1.8 | -3.1 | -. 4 | . 4 | -. 1 | 1.0 | . 6 | -. 6 | . 7 |
| Nondurable goods |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons ............................. | 3.7 | -1.5 | -2.7 | 7.1 | 5.4 | -1.4 | 2.4 | 1.6 | -. 3 | 1.6 | 2.0 | 2.0 |
| Output ............................................................... | 4.7 | 1.8 | -1.0 | 3.7 | 2.3 | -. 6 | 3.4 | 3.4 | 1.8 | 2.3 | 1.7 | 1.1 |
| Hours | . 9 | 3.3 | 1.7 | -3.2 | -3.0 | . 8 | 1.0 | 1.7 | 2.0 | . 7 | -. 3 | -. 9 |
| Compensation per hour | . 9 | . 8 | 2.0 | 3.4 | 3.9 | 5.4 | 3.9 | 2.4 | 1.7 | 1.8 | 2.5 | 3.7 |
| Real compensation per hour ............................... | -4.3 | -4.9 | -. 9 | -. 6 | -3.9 | 1.6 | -. 8 | -2.6 | -2.8 | -2.7 | -2.6 | -. 9 |
| Unit labor costs .................................................. | -2.7 | 2.4 | 4.7 | -3.4 | -1.5 | 6.9 | 1.5 | . 8 | 2.0 | . 2 | . 5 | 1.6 |
| Nonfinancial corporations |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per all-employee hour ............................... | -2.5 | -1.4 | . 8 | -4.2 | -2.2 | 1.7 | -1.1 | -1.4 | -1.0 | -1.8 | -1.8 | -1.0 |
| Output ............................................................... | -. 1 | . 6 | 2.1 | -3.6 | . 2 | 1.6 | 2.3 | 1.4 | 1.3 | $-.3$ | -. 2 | . 1 |
| Hours | 2.4 | 2.0 | 1.3 | . 7 | 2.5 | -. 1 | 3.4 | 2.8 | 2.3 | 1.6 | 1.6 | 1.1 |
| Compensation per hour ....................................... | 3.3 | 1.4 | 1.8 | 2.4 | 2.1 | 5.9 | 4.1 | 3.3 | 2.5 | 2.2 | 1.9 | 3.0 |
| Real compensation per hour ............................... | -2.0 | -4.3 | -1.0 | -1.6 | -5.5 | 2.1 | -. 6 | -1.8 | -2.1 | -2.2 | -3.1 | -1.5 |
| Total unit costs ................................................... | 6.8 | 4.7 | 3.5 | 6.9 | 4.1 | 3.6 | 5.3 | 5.4 | 4.9 | 5.5 | 4.8 | 4.5 |
| Unit labor costs | 5.9 | 2.8 | 1.0 | 6.9 | 4.4 | 4.2 | 5.3 | 4.7 | 3.5 | 4.1 | 3.8 | 4.1 |
| Unit nonlabor costs .......................................... | 9.5 | 9.9 | 10.2 | 6.9 | 3.3 | 2.2 | 5.3 | 7.4 | 8.7 | 9.2 | 7.6 | 5.6 |
| Unit profits ......................................................... | -32.5 | 1.5 | -8.5 | -27.1 | 1.2 | 15.1 | -8.1 | -8.5 | -7.0 | -17.8 | -9.0 | -6.1 |
| Implicit price deflator .......................................... | 2.4 | 4.4 | 2.4 | 3.6 | 3.9 | 4.5 | 4.0 | 4.0 | 3.8 | 3.2 | 3.6 | 3.6 |

$=$ revised.
SOURCE: Office of Productivity and Technology (202 523 9261).

STATE AND AREA LABOR FORCE DATA NOT SEASONALLY ADJUSTED

D-1. Labor force status by State and selected metropolitan areas

| (Numbers in thousands) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| State and area | Civilian labor force |  |  | Unemployed |  |  |  |  |  |
|  |  |  |  | Number |  |  | Percent of labor force |  |  |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{\text {p }} \end{gathered}$ |
| Alabama | 1,931.8 | 1,899.2 | 1,898.4 | 145.9 | 139.5 | 138.2 | 7.6 | 7.3 | 7.3 |
| Birmingham | 447.1 | 440.1 | 440.0 | 26.7 | 25.8 | 25.1 | 6.0 | 5.9 | 5.7 |
| Huntsville | 134.9 | 133.1 | 132.9 | 7.2 | 6.7 | 6.2 | 5.3 | 5.1 | 4.7 |
| Mobile | 214.9 | 210.7 | 210.4 | 18.7 | 16.6 | 15.2 | 8.7 | 7.9 | 7.2 |
| Montgomery ...................................................................... | 141.2 | 139.0 | 138.9 | 9.7 | 9.8 | 8.9 | 6.9 | 7.0 | 6.4 |
| Tuscaloosa | 71.1 | 71.1 | 70.6 | 4.0 | 3.6 | 3.5 | 5.6 | 5.1 | 4.9 |
| Alaska ................................................................................... | 264.3 | 262.6 | 270.2 | 13.0 | 17.2 | 14.2 | 4.9 | 6.5 | 5.3 |
| Arizona | 1,702.3 | 1,752.3 | $1,730.4$ | 99.7 | 101.7 | 104.3 | 5.9 | 5.8 | 6.0 |
| Phoenix .............................................................................. | 1,064.4 | 1,093.3 | 1,079.5 | 48.9 | 50.6 | 50.4 | 4.6 | 4.6 | 4.7 |
| Tucson | 312.1 | 316.5 | 312.2 | 14.8 | 14.2 | 13.6 | 4.8 | 4.5 | 4.4 |
| Arkansas | 1,156.8 | 1,125.2 | 1,121.4 | 85.6 | 81.7 | 80.4 | 7.4 | 7.3 | 7.2 |
| Fayetteville-Springdale ....................................................... | 64.5 | 63.0 | 63.5 | 2.6 | 2.5 | 2.6 | 4.0 | 3.9 | 4.1 |
| Fort Smith ........................................................................ | 96.4 | 92.5 | 93.4 | 6.8 | 6.1 | 5.6 | 7.1 | 6.6 | 6.1 |
| Little Rock-North Little Rock ............................................. | 274.1 | 265.9 | 265.3 | 19.0 | 17.5 | 17.6 | 6.9 | 6.6 | 6.6 |
| Pine Bluff ........................................................................... | 38.1 | 36.8 | 36.4 | 3.2 | 3.4 | 3.4 | 8.3 | 9.1 | 9.5 |
| California ${ }^{1}$ | 14,820.2 | 14,852.9 | 14,965.0 | 861.9 | 742.6 | 849.6 | 5.8 | 5.0 | 5.7 |
| Anaheim-Santa Ana | 1,450.6 | 1,407.0 | 1,416.5 | 51.1 | 46.0 | 51.1 | 3.5 | 3.3 | 3.6 |
| Bakersfield | 241.0 | 238.4 | 237.9 | 24.3 | 23.1 | 23.8 | 10.1 | 9.7 | 10.0 |
| Fresno | 327.0 | 319.0 | 326.5 | 31.1 | 27.5 | 30.4 | 9.5 | 8.6 | 9.3 |
| Los Angeles-Long Beach ${ }^{1}$ | 4,253.7 | 4,503.0 | 4,501.0 | 237.3 | 208.0 | 242.0 | 5.6 | 4.6 | 5.4 |
| Modesto | 172.1 | 165.0 | 170.3 | 19.0 | 19.2 | 18.6 | 11.0 | 11.6 | 10.9 |
| Oakland | 1,145.9 | 1,129.0 | 1,145.0 | 57.3 | 46.0 | 52.8 | 5.0 | 4.1 | 4.6 |
| Oxnard-Ventura . | 383.5 | 374.9 | 382.2 | 25.6 | 18.2 | 25.4 | 6.7 | 4.9 | 6.6 |
| Riverside-San Bernardino | 1,046.4 | 1,056.7 | 1,065.2 | 75.7 | 66.3 | 82.5 | 7.2 | 6.3 | 7.7 |
| Sacramento | 750.3 | 740.7 | 750.9 | 40.6 | 33.9 | 36.6 | 5.4 | 4.6 | 4.9 |
| San Diego | 1,201.7 | 1,196.0 | 1,206.7 | 57.0 | 51.7 | 59.8 | 4.7 | 4.3 | 5.0 |
| San Francisco | 911.1 | 884.9 | 899.9 | 36.2 | 30.7 | 34.8 | 4.0 | 3.5 | 3.9 |
| San Jose ..... | 866.6 | 820.5 | 832.8 | 38.4 | 31.5 | 36.3 | 4.4 | 3.8 | 4.4 |
| Santa Barbara-Santa Maria-Lompoc | 185.8 | 182.2 | 183.0 | 8.3 | 7.0 | 8.3 | 4.5 | 3.8 | 4.5 |
| Santa Rosa-Petaluma ....................................................... | 206.2 | 210.2 | 210.3 | 10.2 | 9.0 | 9.9 | 4.9 | 4.3 | 4.7 |
| Stockton | 205.9 | 199.5 | 201.4 | 19.3 | 19.0 | 18.9 | 9.4 | 9.5 | 9.4 |
| Vallejo-Fairfield-Napa | 205.9 | 202.0 | 208.0 | 12.7 | 10.0 | 12.0 | 6.1 | 4.9 | 5.8 |
| Colorado | 1,724.3 | 1,770.8 | 1,756.9 | 85.7 | 93.2 | 84.7 | 5.0 | 5.3 | 4.8 |
| Boulder-Longmont ............................................................ | 135.4 | 137.5 | 136.8 | 5.3 | 5.5 | 5.3 | 3.9 | 4.0 | 3.9 |
| Denver .............................................................................. | 882.9 | 896.4 | 891.3 | 42.4 | 44.6 | 40.6 | 4.8 | 5.0 | 4.6 |
| Connecticut ........................................................................ | 1,801.4 | 1,834.5 | 1,828.2 | 67.3 | 92.7 | 94.1 | 3.7 | 5.1 | 5.1 |
| Bridgeport-Milford | 233.9 | 236.7 | 234.9 | 12.1 | 14.3 | 15.0 | 5.2 | 6.0 | 6.4 |
| Hartford ..... | 437.9 | 447.2 | 446.5 | 14.0 | 20.5 | 20.1 | 3.2 | 4.6 | 4.5 |
| New Britain | 75.0 | 79.0 | 77.2 | 3.1 | 4.5 | 4.7 | 4.1 | 5.7 | 6.1 |
| New Haven-Meriden | 283.6 | 286.1 | 285.4 | 10.4 | 14.2 | 14.7 | 3.7 | 5.0 | 5.1 |
| Stamford ............. | 119.2 | 118.8 | 119.2 | 2.9 | 4.1 | 4.1 | 2.5 | 3.4 | 3.4 |
| Waterbury ......................................................................... | 103.1 | 107.1 | 104.7 | 5.6 | 7.6 | 8.4 | 5.4 | 7.1 | 8.0 |
| Delaware ............................................................................. | 366.5 | 367.6 | 365.1 | 16.4 | 12.8 | 16.8 | 4.5 | 3.5 | 4.6 |
| Wilmington ........................................................................ | 314.2 | 317.1 | 313.7 | 17.2 | 12.1 | 16.4 | 5.5 | 3.8 | 5.2 |
| District of Columbia ............................................................ | 318.1 | 299.1 | 304.7 | 16.6 | 21.4 | 21.1 | 5.2 | 7.2 | 6.9 |
| Washington ....................................................................... | 2,282.4 | 2,226.4 | 2,260.1 | 59.3 | 72.8 | 73.3 | 2.6 | 3.3 | 3.2 |
| Florida ${ }^{1}$................................................................................. | 6,344.3 | 6,362.2 | 6,424.9 | 382.8 | 419.9 | 394.6 | 6.0 | 6.6 | 6.1 |
| Daytona Beach .................................................................. | 160.4 | 156.7 | 159.3 | 9.3 | 9.0 | 8.4 | 5.8 | 5.7 | 5.3 |
| Fort Lauderdale-Hollywood-Pompano Beach ...................... | 660.6 | 663.0 | 668.2 | 33.9 | 40.7 | 37.4 | 5.1 | 6.1 | 5.6 |
| Fort Myers-Cape Coral ...................................................... | 148.3 | 155.1 | 158.1 | 6.1 | 6.8 | 7.2 | 4.1 | 4.4 | 4.6 |
| Gainesville .......................................................................... | 108.5 | 106.7 | 108.2 | 3.5 | 3.9 | 3.7 | 3.2 | 3.6 | 3.4 |
| Jacksonville ....................................................................... | 466.7 | 460.3 | 467.3 | 27.8 | 27.7 | 26.1 | 6.0 | 6.0 | 5.6 |
| Lakeland-Winter Haven ..................................................... | 183.5 | 184.6 | 184.5 | 19.5 | 21.6 | 21.3 | 10.6 | 11.7 | 11.6 |
| Melbourne-Titusville-Palm Bay | 194.9 | 193.6 | 197.7 | 10.2 | 11.2 | 10.8 | 5.2 | 5.8 | 5.5 |
| Miami-Hialeah | 965.4 | 960.3 | 971.2 | 63.9 | 71.3 | 63.9 | 6.6 | 7.4 | 6.6 |
| Orlando ... | 634.4 | 631.8 | 640.1 | 35.0 | 36.2 | 34.7 | 5.5 | 5.7 | 5.4 |
| Pensacola ......................................................................... | 151.5 | 149.2 | 149.7 | 9.3 | 10.5 | 8.6 | 6.1 | 7.0 | 5.8 |
| Sarasota ........................................................................... | 125.4 | 124.5 | 125.8 | 4.8 | 5.7 | 5.4 | 3.8 | 4.6 | 4.3 |
| Tallahassee ........................................................................ | 135.7 | 136.5 | 136.6 | 6.6 | 7.1 | 5.5 | 4.8 | 5.2 | 4.1 |
| Tampa-St. Petersburg-Clearwater ...................................... | 1,019.1 | 1,008.9 | 1,023.8 | 53.4 | 57.5 | 54.5 | 5.2 | 5.7 | 5.3 |
| West Palm Beach-Boca Raton-Delray Beach ..................... | 424.1 | 429.4 | 433.6 | 30.1 | 32.6 | 31.7 | 7.1 | 7.6 | 7.3 |

See footnotes at end of table.

## D-1. Labor force status by State and selected metropolitan areas-Continued

| State and area | Civilian labor force |  |  | Unemployed |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Number |  |  | Percent of labor force |  |  |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June <br> 1990 | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ |
| Georgia | 3,211.9 | 3,231.7 | 3,277.6 | 177.7 | 190.5 | 188.9 | 5.5 | 5.9 | 5.8 |
| Albany ............................................................................. | 52.9 | 53.4 | 53.1 | 4.1 | 4.0 | 3.8 | 7.7 | 7.5 | 7.2 |
| Athens ............................................................................. | 76.9 | 79.2 | 78.5 | 3.3 | 3.9 | 4.1 | 4.3 | 4.9 | 5.3 |
| Atlanta | 1,514.7 | 1,531.2 | 1,552.4 | 72.0 | 83.7 | 79.4 | 4.8 | 5.5 | 5.1 |
| Augusta ............................................................................ | 190.0 | 190.3 | 193.6 | 9.6 | 9.7 | 9.7 | 5.1 | 5.1 | 5.0 |
| Columbus ........................................................................ | 99.6 | 97.5 | 99.7 | 5.5 | 6.5 | 6.6 | 5.6 | 6.7 | 6.6 |
| Macon-Warner Robins ....................................................... | 133.4 | 132.7 | 134.4 | 6.3 | 7.2 | 6.9 | 4.7 | 5.4 | 5.1 |
| Savannah ........................................................................ | 113.5 | 114.4 | 115.9 | 5.7 | 6.6 | 5.8 | 5.0 | 5.8 | 5.0 |
| Hawaii ................................................................................ | 527.0 | 541.3 | 539.5 | 11.5 | 15.6 | 15.3 | 2.2 | 2.9 | 2.8 |
| Honolulu .......................................................................... | 386.0 | 397.4 | 393.5 | 7.4 | 10.3 | 10.0 | 1.9 | 2.6 | 2.6 |
| Idaho | 494.2 | 512.2 | 505.7 | 22.5 | 27.4 | 28.0 | 4.5 | 5.3 | 5.5 |
| Boise City ........................................................................ | 111.7 | 117.2 | 115.3 | 3.3 | 4.0 | 4.0 | 2.9 | 3.5 | 3.5 |
| Illinois ${ }^{1}$. | 6,060.7 | 6,058.6 | 6,173.6 | 324.2 | 369.6 | 387.2 | 5.4 | 6.1 | 6.3 |
| Aurora-Elgin | 183.6 | 185.9 | 188.0 | 8.6 | 10.6 | 11.0 | 4.7 | 5.7 | 5.8 |
| Bloomington-Normal | 75.0 | 73.6 | 74.9 | 3.3 | 3.0 | 2.9 | 4.4 | 4.1 | 3.9 |
| Champaign-Urbana-Rantoul | 90.0 | 90.8 | 91.6 | 3.2 | 3.4 | 3.7 | 3.6 | 3.8 | 4.1 |
| Chicago . | 3,328.0 | 3,326.7 | 3,389.2 | 166.9 | 197.9 | 207:4 | 5.0 | 5.9 | 6.1 |
| Davenport-Rock Island-Moline . | 188.4 | 184.4 | 188.2 | 11.2 | 10.0 | 10.7 | 5.9 | 5.4 | 5.7 |
| Decatur ............................................................................ | 60.7 | 61.0 | 62.0 | 4.1 | 4.4 | 4.4 | 6.7 | 7.3 | 7.2 |
| Joliet ............................................................................... | 207.4 | 208.7 | 209.8 | 12.1 | 14.1 | 14.0 | 5.9 | 6.8 | 6.7 |
| Kankakee ......................................................................... | 46.4 | 47.6 | 47.9 | 3.2 | 3.2 | 3.4 | 7.0 | 6.7 | 7.1 |
| Lake County | 301.8 | 308.6 | 315.6 | 9.5 | 11.7 | 12.7 | 3.1 | 3.8 | 4.0 |
| Peoria | 164.7 | 163.5 | 166.8 | 8.8 | 9.6 | 10.2 | 5.3 | 5.9 | 6.1 |
| Rockford | 157.1 | 157.4 | 159.2 | 11.2 | 9.9 | 13.4 | 7.1 | 6.3 | 8.4 |
| Springfield ..................................................................... | 115.2 | 114.8 | 116.4 | 4.5 | 5.1 | 4.9 | 3.9 | 4.5 | 4.2 |
| Indiana | 2,923.0 | 2,904.2 | 2,854.3 | 116.4 | 145.8 | 146.1 | 4.0 | 5.0 | 5.1 |
| Anderson | 61.2 | 59.3 | 58.7 | 3.9 | 3.2 | 3.8 | 6.3 | 5.5 | 6.5 |
| Bloomington | 59.6 | 59.8 | 58.6 | 1.3 | 2.0 | 1.8 | 2.2 | 3.4 | 3.1 |
| Elkhart-Goshen ................................................................ | 99.7 | 100.7 | 98.5 | 4.2 | 5.3 | 4.6 | 4.2 | 5.3 | 4.7 |
| Evansville . | 148.9 | 149.1 | 146.9 | 5.6 | 7.7 | 6.6 | 3.8 | 5.1 | 4.5 |
| Fort Wayne | 208.6 | 211.4 | 205.2 | 7.0 | 11.5 | 9.5 | 3.3 | 5.4 | 4.6 |
| Gary-Hammond | 266.3 | 265.9 | 258.7 | 10.0 | 15.9 | 13.7 | 3.8 | 6.0 | 5.3 |
| Indianapolis | 711.6 | 693.9 | 694.2 | 23.9 | 26.5 | 32.4 | 3.4 | 3.8 | 4.7 |
| Kokomo ........................................................................... | 50.7 | 48.8 | 48.0 | 4.5 | 2.6 | 2.8 | 8.8 | 5.4 | 5.7 |
| Lafayette-West Lafayette ............... | 67.8 | 69.0 | 67.5 | 1.6 | 1.8 | 1.9 | 2.3 | 2.6 | 2.8 |
| Muncie | 58.2 | 60.4 | 58.4 | 2.3 | 3.3 | 2.9 | 4.0 | 5.5 | 4.9 |
| South Bend-Mishawaka .............................................. | 134.5 | 134.9 | 133.4 | 6.9 | 7.5 | 7.6 | 5.1 | 5.5 | 5.7 |
| Terre Haute ....................................................................... | 60.0 | 59.6 | 58.9 | 2.2 | 2.7 | 2.6 | 3.6 | 4.6 | 4.5 |
| lowa | 1,533.3 | 1,512.6 | 1,525.1 | 61.7 | 58.3 | 60.1 | 4.0 | 3.9 | 3.9 |
| Cedar Rapids ................................................................... | 98.4 | 96.4 | 98.4 | 3.2 | 5.0 | 4.9 | 3.3 | 5.1 | 5.0 |
| Des Moines ...................................................................... | 241.3 | 234.2 | 237.8 | 8.4 | 7.5 | 7.2 | 3.5 | 3.2 | 3.0 |
| Dubuque ............................................................................... | 45.1 | 42.9 | 43.8 | 2.2 | 2.1 | 2.1 | 4.9 | 5.0 | 4.8 |
| lowa City .................................... | 59.6 | 62.3 | 63.6 | 1.0 | 1.0 | 1.2 | 1.6 | 1.6 | 1.9 |
| Sioux City | 61.4 | 60.1 | 60.9 | 2.5 | 2.6 | 2.4 | 4.1 | 4.3 | 4.0 |
| Waterloo-Cedar Falls .................................................... | 71.7 | 70.8 | 72.4 | 3.4 | 3.2 | 3.2 | 4.7 | 4.5 | 4.4 |
| Kansas .............................................................................. | 1,316.1 | 1,342.0 | 1,340.8 | 47.2 | 50.6 | 50.3 | 3.6 | 3.8 | 3.8 |
| Lawrence .......................................................................... | 41.5 | 43.2 | 43.5 | 1.3 | 1.6 | 1.6 | 3.2 | 3.8 | 3.7 |
| Topeka ............................................................................... | 94.3 | 95.7 | 95.8 | 3.7 | 3.9 | 4.1 | 3.9 | 4.0 | 4.3 |
| Wichita ............................................................................ | 261.1 | 261.1 | 262.7 | 10.2 | 10.2 | 10.4 | 3.9 | 3.9 | 4.0 |
| Kentucky ........................................................................... | 1,798.3 | 1,811.5 | 1,799.4 | 106.9 | 107.2 | 90.4 | 5.9 | 5.9 | 5.0 |
| Lexington-Fayette ............................................................. | 206.1 | 208.5 | 207.6 | 7.5 | 7.6 | 6.3 | 3.6 | 3.7 | 3.1 |
| Louisville ........................................................................... | 534.2 | 539.7 | 531.7 | 24.1 | 29.5 | 21.4 | 4.5 | 5.5 | 4.0 |
| Owensboro ....................................................................... | 47.1 | 46.7 | 46.3 | 2.9 | 2.7 | 2.1 | 6.2 | 5.9 | 4.6 |
| Louisiana ........................................................................... | 1,939.3 | 1,921.6 | 1,945.6 | 166.1 | 134.4 | 121.0 | 8.6 | 7.0 | 6.2 |
| Alexandria | 60.6 | 59.2 | 59.6 | 5.3 | 4.3 | 4.0 | 8.8 | 7.2 | 6.7 |
| Baton Rouge ....... | 276.1 | 276.6 | 280.7 | 21.0 | 17.5 | 15.7 | 7.6 | 6.3 | 5.6 |
| Houma-Thibodaux ...................................... ...... | 70.8 | 72.1 | 73.1 | 5.3 | 4.0 | 3.5 | 7.4 | 5.6 | 4.8 |
| Lafayette ........ | 101.6 | 102.2 | 105.1 | 7.4 | 5.4 | 4.9 | 7.3 | 5.3 | 4.6 |
| Lake Charles .................................................................... | 79.4 | 78.4 | 78.6 | 6.5 | 5.6 | 5.3 | 8.1 | 7.2 | 6.8 |
| Monroe ........ | 70.9 | 68.7 | 70.3 | 5.6 | 4.5 | 4.2 | 7.9 | 6.5 | 6.0 |
| New Orleans .................................................................... | 603.3 | 596.9 | 605.8 | 47.1 | 39.7 | 35.1 | 7.8 | 6.6 | 5.8 |
| Shreveport ........................................................................ | 159.8 | 158.4 | 158.7 | 13.8 | 10.9 | 9.6 | 8.7 | 6.9 | 6.1 |
| Maine | 637.0 | 640.2 | 644.9 | 23.7 | 26.0 | 27.1 | 3.7 | 4.1 | 4.2 |
| Lewiston-Auburn .............................................................. | 42.6 | 43.2 | 42.5 | 2.8 | 2.4 | 2.9 | 6.6 | 5.7 | 6.9 |
| Portiand ........................................................................... | 132.9 | 134.7 | 134.5 | 2.3 | 4.0 | 3.8 | 1.7 | 3.0 | 2.8 |

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA NOT SEASONALLY ADJUSTED

D-1. Labor force status by State and selected metropolitan areas-Continued

| State and area | Civilian labor force |  |  | Unemployed |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Number |  |  | Percent of labor force |  |  |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ |
| Maryland | 2,608.0 | 2,551.7 | 2,599.5 | 93.4 | 100.7 | 117.5 | 3.6 | 3.9 | 4.5 |
| Baltimore | 1,240.0 | 1,219.2 | 1,243.6 | 48.4 | 52.6 | 61.6 | 3.9 | 4.3 | 5.0 |
| Massachusetts ${ }^{1}$ | 3,257.1 | 3,232.9 | 3,223.7 | 150.9 | 189.0 | 209.5 | 4.6 | 5.8 | 6.5 |
| Boston .............................................................................. | 1,594.6 | 1,578.9 | 1,570.9 | 63.5 | 80.2 | 87.3 | 4.0 | 5.1 | 5.6 |
| Brockton ........................................................................... | 102.6 | 102.9 | 102.9 | 5.8 | 7.6 | 8.3 | 5.7 | 7.4 | 8.1 |
| Fall River ........................................................... | 79.6 | 80.8 | 81.2 | 6.6 | 7.0 | 9.7 | 8.3 | 8.7 | 11.9 |
| Fitchburg-Leominster | 49.0 | 50.1 | 47.7 | 3.3 | 4.3 | 4.6 | 6.7 | 8.5 | 9.7 |
| Lawrence-Haverhill ............................................................ | 192.8 | 197.2 | 197.9 | 11.8 | 15.3 | 15.8 | 6.1 | 7.8 | 8.0 |
| Lowell | 155.0 | 157.4 | 154.1 | 8.4 | 11.1 | 11.8 | 5.4 | 7.0 | 7.7 |
| New Bedford | 89.2 | 88.5 | 88.8 | 6.3 | 7.3 | 9.0 | 7.1 | 8.3 | 10.2 |
| Pittsfield .. | 42.2 | 42.5 | 42.8 | 2.0 | 2.5 | 2.7 | 4.7 | 5.9 | 6.3 |
| Springfield ........................................................................ | 261.3 | 257.4 | 256.9 | 12.7 | 15.0 | 16.6 | 4.9 | 5.8 | 6.4 |
| Worcester ......................................................................... | 223.6 | 226.0 | 226.7 | 10.0 | 14.4 | 15.4 | 4.5 | 6.4 | 6.8 |
| Michigan ${ }^{1}$ | 4,646.1 | 4,664.5 | 4,689.2 | 340.1 | 349.4 | 363.3 | 7.3 | 7.5 | 7.7 |
| Ann Arbor | 157.1 | 163.5 | 161.3 | 7.0 | 7.4 | 8.5 | 4.4 | 4.5 | 5.3 |
| Battle Creek | 65.2 | 66.5 | 66.7 | 4.9 | 5.3 | 5.1 | 7.5 | 8.0 | 7.6 |
| Benton Harbor ................................................................... | 80.1 | 80.2 | 79.9 | 5.6 | 6.4 | 5.7 | 7.0 | 8.0 | 7.1 |
| Detroit | 2,216.5 | 2,200.0 | 2,218.7 | 167.6 | 164.6 | 182.2 | 7.6 | 7.5 | 8.2 |
| Flint . | 188.4 | 184.9 | 185.2 | 24.2 | 16.1 | 16.0 | 12.8 | 8.7 | 8.6 |
| Grand Rapids | 369.8 | 380.7 | 381.8 | 20.7 | 25.9 | 26.6 | 5.6 | 6.8 | 7.0 |
| Jackson ........ | 65.4 | 67.0 | 66.9 | 4.2 | 5.4 | 5.3 | 6.4 | 8.0 | 7.9 |
| Kalamazoo | 118.8 | 119.2 | 119.5 | 6.2 | 7.0 | 6.8 | 5.2 | 5.8 | 5.7 |
| Lansing-East Lansing . | 241.2 | 243.7 | 239.5 | 14.3 | 14.6 | 14.3 | 6.0 | 6.0 | 6.0 |
| Muskegon ........................................................................ | 68.8 | 69.5 | 70.4 | 5.7 | 7.1 | 6.9 | 8.2 | 10.2 | 9.8 |
| Saginaw-Bay City-Midland .................................................. | 184.9 | 190.0 | 190.4 | 13.5 | 14.0 | 13.1 | 7.3 | 7.4 | 6.9 |
| Minnesota | 2,362.4 | 2,403.2 | 2,423.2 | 96.2 | 101.0 | 111.6 | 4.1 | 4.2 | 4.6 |
| Duluth | 108.1 | 110.8 | 112.2 | 5.5 | 5.8 | 5.8 | 5.1 | 5.2 | 5.2 |
| Minneapolis-St.Paul | 1,415.5 | 1,425.9 | 1,448.0 | 52.4 | 55.5 | 61.8 | 3.7 | 3.9 | 4.3 |
| Rochester | 63.4 | 64.0 | 65.3 | 1.9 | 1.8 | 2.1 | 3.0 | 2.9 | 3.3 |
| St. Cloud .......................................................................... | 96.6 | 103.4 | 102.1 | 4.0 | 5.0 | 5.1 | 4.2 | 4.8 | 5.0 |
| Mississippi | 1,195.4 | 1,201.1 | 1,201.0 | 96.3 | 98.4 | 96.5 | 8.1 | 8.2 | 8.0 |
| Jackson .......................................................... | 207.1 | 211.9 | 209.9 | 11.5 | 12.4 | 11.7 | 5.6 | 5.9 | 5.6 |
| Missouri ... | 2,670.2 | 2,678.1 | 2,637.5 | 139.0 | 136.6 | 152.8 | 5.2 | 5.1 | 5.8 |
| Kansas City | 869.4 | 880.3 | 877.3 | 37.4 | 38.9 | 39.7 | 4.3 | 4.4 | 4.5 |
| St. Louis LMA ................................................................... | 1,299.3 | 1,285.1 | 1,286.1 | 68.0 | 72.3 | 78.0 | 5.2 | 5.6 | 6.1 |
| Springfield ........................................................................... | 129.1 | 127.6 | 126.9 | 5.4 | 5.3 | 5.6 | 4.2 | 4.1 | 4.4 |
| Montana .............................................................................. | 415.4 | 410.7 | 408.9 | 21.5 | 22.8 | 20.7 | 5.2 | 5.5 | 5.1 |
| Nebraska ............................................................................. | 819.0 | 858.5 | 863.2 | 25.4 | 17.3 | 19.3 | 3.1 | 2.0 | 2.2 |
| Lincoln ............................................................................. | 124.9 | 129.5 | 129.7 | 3.7 | 2.1 | 2.6 | 3.0 | 1.6 | 2.0 |
| Omaha ............................................................................. | 331.3 | 337.0 | 342.0 | 11.5 | 8.6 | 9.2 | 3.5 | 2.6 | 2.7 |
| Nevada ................................................................................ | 602.6 | 624.8 | 636.0 | 30.5 | 30.6 | 28.6 | 5.1 | 4.9 | 4.5 |
| Las Vegas ........................................................................ | 357.6 | 377.7 | 385.3 | 18.9 | 19.4 | 18.0 | 5.3 | 5.1 | 4.7 |
| Reno ................................................................................ | 136.6 | 136.7 | 138.1 | 6.2 | 6.0 | 5.6 | 4.6 | 4.4 | 4.1 |
| New Hampshire .................................................................. | 622.0 | 635.5 | 634.3 | 22.6 | 38.9 | 36.3 | 3.6 | 6.1 | 5.7 |
| Manchester ....................................................................... | 86.3 | 89.4 | 88.8 | 3.0 | 5.9 | 5.0 | 3.5 | 6.6 | 5.6 |
| Nashua | 98.2 | 101.8 | 99.0 | 3.4 | 7.2 | 6.7 | 3.5 | 7.1 | 6.8 |
| Portsmouth-Dover-Rochester ............................................ | 139.1 | 134.5 | 133.3 | 4.2 | 5.7 | 5.9 | 3.0 | 4.2 | 4.5 |
| New Jersey ${ }^{\mathbf{1}}$........................................................................ | 4,025.6 | 4,082.9 | 4,134.3 | 183.0 | 191.4 | 211.8 | 4.5 | 4.7 | 5.1 |
| Atlantic City ....................................................................... | 193.8 | 195.7 | 204.4 | 9.3 | 9.3 | 9.6 | 4.8 | 4.8 | 4.7 |
| Bergen-Passaic ............................................................... | 708.0 | 719.2 | 724.5 | 30.5 | 30.6 | 33.1 | 4.3 | 4.3 | 4.6 |
| Jersey City ........................................................................ | 273.4 | 276.1 | 278.2 | 19.4 | 20.0 | 21.2 | 7.1 | 7.2 | 7.6 |
| Middlesex-Somerset-Hunterdon ......................................... | 568.3 | 575.0 | 581.0 | 19.2 | 20.3 | 25.0 | 3.4 | 3.5 | 4.3 |
| Monmouth-Ocean ............................................................. | 504.0 | 505.5 | 518.8 | 20.2 | 21.8 | 24.2 | 4.0 | 4.3 | 4.7 |
| Newark ............................................................................. | 964.0 | 981.5 | 995.8 | 46.5 | 49.9 | 57.0 | 4.8 | 5.1 | 5.7 |
| Trenton ............................................................................ | 169.9 | 173.9 | 173.6 | 6.6 | 6.6 | 7.7 | 3.9 | 3.8 | 4.5 |
| Vineland-Milville-Bridgeton ................................................ | 58.8 | 60.5 | 61.7 | 4.4 | 4.4 | 4.8 | 7.5 | 7.2 | 7.8 |
| New Mexico ........................................................................ | 705.4 | 712.9 | 711.2 | 47.6 | 53.0 | 46.4 | 6.7 | 7.4 | 6.5 |
| Albuquerque ...................................................................... | 269.1 | 266.6 | 265.7 | 14.3 | 16.0 | 14.7 | 5.3 | 6.0 | 5.5 |
| Las Cruces ........................................................................ | 58.2 | 61.1 | 58.8 | 4.3 | 5.1 | 4.3 | 7.4 | 8.4 | 7.4 |
| Santa Fe ........................................................................... | 70.2 | 71.4 | 72.3 | 3.0 | 2.9 | 2.6 | 4.2 | 4.1 | 3.6 |

See footnotes at end of tabie.

## D-1. Labor force status by State and selected metropolitan areas-Continued

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(Numbers in thousands)
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| State and area | Civilian labor force |  |  | Unemployed |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Number |  |  | Percent of labor force |  |  |
|  | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\rho} \end{gathered}$ |
| New York' | 8,856.5 | 8,808.2 | 8,874.3 | 411.2 | 413.4 | 458.9 | 4.6 | 4.7 | 5.2 |
| Albany-Schenectady-Troy | 447.7 | 443.7 | 453.7 | 16.6 | 14.6 | 15.2 | 3.7 | 3.3 | 3.3 |
| Binghamton .................... | 128.1 | 124.5 | 126.3 | 5.6 | 4.9 | 4.7 | 4.4 | 3.9 | 3.8 |
| Buffalo ........ | 476.7 | 468.1 | 479.2 | 27.1 | 20.8 | 22.5 | 5.7 | 4.4 | 4.7 |
| Elmira .............................................................................. | 45.1 | 45.0 | 45.9 | 1.7 | 1.8 | 1.7 | 3.7 | 4.1 | 3.8 |
| Glens Falls | 59.7 | 57.0 | 60.3 | 2.6 | 2.7 | 2.5 | 4.4 | 4.8 | 4.2 |
| Nassau-Suffolk | 1,475.9 | 1,448.0 | 1,473.5 | 61.8 | 54.6 | 60.1 | 4.2 | 3.8 | 4.1 |
| New York ........ | 4,029.8 | 4,049.3 | 4,017.1 | 200.7 | 223.3 | 261.8 | 5.0 | 5.5 | 6.5 |
| New York City ${ }^{1}$.............................................................. | 3,322.2 | 3,357.0 | 3,301.0 | 175.8 | 201.0 | 238.0 | 5.3 | 6.0 | 7.2 |
| Orange County ................................................................. | 141.5 | 139.9 | 142.0 | 6.5 | 6.1 | 6.1 | 4.6 | 4.4 | 4.3 |
| Poughkeepsie .. | 132.6 | 130.2 | 133.0 | 3.9 | 3.9 | 4.0 | 3.0 | 3.0 | 3.0 |
| Rochester ...... | 523.9 | 517.8 | 526.0 | 19.4 | 18.5 | 19.3 | 3.7 | 3.6 | 3.7 |
| Syracuse .......................................................................... | 327.8 | 325.4 | 332.4 | 12.9 | 12.4 | 11.9 | 3.9 | 3.8 | 3.6 |
| Utica-Rome ..................................................................... | 143.1 | 140.1 | 143.4 | 5.9 | 5.5 | 5.7 | 4.1 | 4.0 | 4.0 |
| North Carolina ${ }^{1}$ | 3,471.0 | 3,471.0 | 3,493.5 | 114.0 | 131.7 | 157.3 | 3.3 | 3.8 | 4.5 |
| Asheville | 92.9 | 95.9 | 96.5 | 2.1 | 2.8 | 3.2 | 2.3 | 3.0 | 3.3 |
| Charlotte-Gastonia-Rock Hill | 661.7 | 667.3 | 670.3 | 20.2 | 23.2 | 26.1 | 3.1 | 3.5 | 3.9 |
| Greensboro-Winston-Salem-High Point .............................. | 526.7 | 520.1 | 517.0 | 17.3 | 19.1 | 22.6 | 3.3 | 3.7 | 4.4 |
| Raleigh-Durham ............................................................... | 431.9 | 423.5 | 429.6 | 10.9 | 9.9 | 11.8 | 2.5 | 2.3 | 2.7 |
| North Dakota | 345.0 | 335.3 | 334.6 | 12.6 | 13.8 | 13.1 | 3.7 | 4.1 | 3.9 |
| Bismarck.. | 49.0 | 48.4 | 48.3 | 1.6 | 1.9 | 1.8 | 3.3 | 3.9 | 3.7 |
| Fargo-Moorhead | 88.3 | 87.8 | 88.1 | 2.1 | 2.2 | 2.2 | 2.4 | 2.5 | 2.5 |
| Grand Forks ....... | 37.1 | 36.1 | 36.0 | 1.5 | 1.5 | 1.6 | 4.0 | 4.2 | 4.5 |
| Ohio ${ }^{1}$ | 5,483.1 | 5,480.7 | 5,472.1 | 273.3 | 301.5 | 278.2 | 5.0 | 5.5 | 5.1 |
| Akron | 335.3 | 335.3 | 337.6 | 15.1 | 16.6 | 16.2 | 4.5 | 5.0 | 4.8 |
| Canton | 197.4 | 196.1 | 195.2 | 11.5 | 12.8 | 10.6 | 5.8 | 6.5 | 5.4 |
| Cincinnati | 792.9 | 799.2 | 799.8 | 33.6 | 35.1 | 31.6 | 4.2 | 4.4 | 4.0 |
| Cleveland | 967.2 | 962.5 | 967.8 | 40.8 | 45.3 | 42.1 | 4.2 | 4.7 | 4.3 |
| Columbus | 735.9 | 744.2 | 743.3 | 31.5 | 32.2 | 30.9 | 4.3 | 4.3 | 4.2 |
| Dayton-Springfield | 479.7 | 481.9 | 479.6 | 22.2 | 25.1 | 22.0 | 4.6 | 5.2 | 4.6 |
| Toledo .................. | 317.3 | 319.9 | 316.3 | 17.1 | 21.2 | 18.6 | 5.4 | 6.6 | 5.9 |
| Youngstown-Warren ........................................................... | 220.9 | 225.7 | 222.4 | 13.4 | 14.1 | 16.9 | 6.0 | 6.2 | 7.6 |
| Oklahoma | 1,568.4 | 1,577.1 | 1,586.7 | 83.7 | 76.2 | 75.5 | 5.3 | 4.8 | 4.8 |
| Enid. | 29.1 | 28.7 | 29.0 | 1.2 | 1.0 | 1.1 | 4.0 | 3.6 | 3.7 |
| Lawton | 50.6 | 50.6 | 50.8 | 2.3 | 2.5 | 2.3 | 4.5 | 5.0 | 4.5 |
| Oklahoma City | 516.9 | 521.2 | 529.6 | 22.5 | 23.0 | 23.1 | 4.4 | 4.4 | 4.4 |
| Tulsa ................................................................................ | 354.4 | 360.5 | 367.6 | 19.2 | 17.5 | 16.8 | 5.4 | 4.9 | 4.6 |
| Oregon ........... | 1,511.2 | 1,510.9 | 1,511.1 | 84.6 | 79.0 | 86.4 | 5.6 | 5.2 | 5.7 |
| Eugene-Springfield | 147.9 | 150.0 | 149.1 | 8.4 | 8.5 | 8.6 | 5.7 | 5.6 | 5.8 |
| Portland | 685.4 | 685.5 | 689.1 | 31.1 | 28.5 | 32.2 | 4.5 | 4.2 | 4.7 |
| Salem.. | 142.1 | 144.7 | 143.6 | 7.7 | 7.5 | 7.7 | 5.4 | 5.2 | 5.4 |
| Pennsylvania ${ }^{1}$ | 5,920.8 | 5,974.3 | 5,974.1 | 277.2 | 295.9 | 309.9 | 4.7 | 5.0 | 5.2 |
| Allentown-Bethlehem .................................................. | 328.2 | 335.8 | 333.7 | 15.5 | 17.4 | 18.9 | 4.7 | 5.2 | 5.7 |
| Altoona ......... | 61.0 | 62.9 | 63.5 | 3.7 | 3.9 | 4.9 | 6.0 | 6.2 | 7.7 |
| Beaver County | 59.9 | 60.5 | 60.2 | 4.6 | 4.3 | 4.5 | 7.6 | 7.2 | 7.5 |
| Erie. | 134.1 | 135.8 | 136.8 | 6.5 | 6.7 | 6.9 | 4.8 | 4.9 | 5.0 |
| Harrisburg-Lebanon-Carlisle .............................................. | 337.8 | 345.7 | 346.6 | 13.0 | 14.8 | 14.4 | 3.9 | 4.3 | 4.2 |
| Johnstown ............................ | 97.8 | 96.6 | 97.7 | 7.9 | 6.9 | 7.4 | 8.1 | 7.1 | 7.6 |
| Lancaster .. | 228.2 | 228.7 | 228.6 | 8.0 | 9.1 | 9.4 | 3.5 | 4.0 | 4.1 |
| Philadelphia | 2,440.6 | 2,461.3 | 2,460.3 | 100.2 | 110.6 | 116.6 | 4.1 | 4.5 | 4.7 |
| Pittsburgh .......................................................................... | 991.7 | 1,004.3 | 998.1 | 45.6 | 44.2 | 40.8 | 4.6 | 4.4 | 4.1 |
| Reading ......... | 177.9 | 181.3 | 179.3 | 7.0 | 8.7 | 9.3 | 3.9 | 4.8 | 5.2 |
| Scranton-Wilkes-Barre | 369.8 | 370.9 | 374.9 | 22.0 | 23.2 | 26.4 | 6.0 | 6.3 | 7.0 |
| Sharon | 50.7 | 52.5 | 53.1 | 2.3 | 2.6 | 2.8 | 4.6 | 4.9 | 5.3 |
| State College | 65.5 | 65.6 | 67.0 | 2.8 | 3.3 | 3.7 | 4.3 | 5.0 | 5.5 |
| Williamsport ...................................................................... | 60.8 | 61.7 | 61.6 | 3.4 | 3.8 | 3.4 | 5.6 | 6.1 | 5.5 |
| York ............................................................................... | 224.1 | 226.2 | 225.2 | 9.2 | 10.3 | 10.8 | 4.1 | 4.6 | 4.8 |
| Rhode Island ..................................................................... | 532.7 | 524.9 | 526.0 | 21.4 | 34.1 | 37.4 | 4.0 | 6.5 | 7.1 |
| Pawtucket-Woonsocket-Attleboro ...................................... | 167.9 | 167.0 | 165.8 | 8.2 | 12.2 | 13.8 | 4.9 | 7.3 | 8.4 |
| Providence ...................................................................... | 348.1 | 343.1 | 342.6 | 13.6 | 21.8 | 23.6 | 3.9 | 6.3 | 6.9 |
| South Carolina ............................................................. | 1,700.1 | 1,784.3 | 1,770.9 | 81.0 | 87.1 | 93.3 | 4.8 | 4.9 | 5.3 |
| Charleston | 225.7 | 246.6 | 247.4 | 9.3 | 9.3 | 8.8 | 4.1 | 3.8 | 3.5 |
| Columbia ......................................................................... | 234.9 | 245.6 | 244.9 | 8.1 | 9.2 | 9.4 | 3.5 | 3.7 | 3.8 |
| Greenville-Spartanburg ..................................................... | 337.5 | 356.2 | 356.7 | 13.5 | 15.1 | 15.7 | 4.0 | 4.2 | 4.4 |
| South Dakota | 367.9 | 365.5 | 369.1 | 14.7 | 14.4 | 14.5 | 4.0 | 3.9 | 3.9 |
| Rapid City ......................................................................... | 41.2 | 39.9 | 40.5 | 1.4 | 1.3 | 1.3 | 3.5 | 3.3 | 3.2 |
| Sioux Falls ....................................................................... | 74.5 | 73.6 | 74.7 | 2.6 | 2.4 | 2.0 | 3.5 | 3.2 | 2.7 |

See footnotes at end of table.

STATE AND AREA LABOR FORCE DATA
NOT SEASONALLY ADJUSTED
D-1. Labor force status by State and selected metropolitan areas-Continued

| State and area | Civilian labor force |  |  | Unemployed |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Number |  |  | Percent of labor force |  |  |
|  | $\begin{gathered} \text { July } \\ 1989 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | June 1990 | $\begin{gathered} \text { July } \\ 1990^{\circ} \end{gathered}$ | $\begin{aligned} & \text { July } \\ & 1989 \end{aligned}$ | $\begin{aligned} & \text { June } \\ & 1990 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1990^{p} \end{gathered}$ |
| Tennessee | 2,405.4 | 2,415.9 | 2,447.7 | 123.1 | 130.2 | 122.6 | 5.1 | 5.4 | 5.0 |
| Chattanooga | 211.4 | 211.3 | 214.6 | 10.2 | 10.4 | 10.0 | 4.8 | 4.9 | 4.6 |
| Johnson City-Kingsport-Bristol | 218.6 | 221.9 | 226.5 | 10.6 | 10.3 | 9.8 | 4.9 | 4.7 | 4.3 |
| Knoxville ................................. | 297.3 | 289.9 | 293.4 | 14.7 | 14.5 | 12.6 | 4.9 | 5.0 | 4.3 |
| Memphis | 471.8 | 471.8 | 479.3 | 21.0 | 24.0 | 20.6 | 4.4 | 5.1 | 4.3 |
| Nashville .......................................................................... | 534.3 | 535.9 | 541.6 | 19.0 | 24.1 | 20.0 | 3.6 | 4.5 | 3.7 |
| Texas ${ }^{1}$ | 8,583.0 | 8,548.8 | 8,527.9 | 616.3 | 539.1 | 537.6 | 7.2 | 6.3 | 6.3 |
| Abilene | 52.8 | 51.7 | 52.4 | 3.8 | 3.2 | 4.2 | 7.1 | 6.2 | 8.0 |
| Amarillo ...................................................................... | 100.0 | 98.4 | 97.9 | 5.9 | 5.3 | 5.3 | 5.9 | 5.4 | 5.4 |
| Austin | 435.7 | 435.1 | 429.4 | 26.7 | 21.4 | 21.1 | 6.1 | 4.9 | 4.9 |
| Beaumont-Port Arthur ...................................................... | 166.7 | 166.4 | 166.0 | 16.3 | 13.3 | 13.0 | 9.8 | 8.0 | 7.8 |
| Brazoria | 87.0 | 88.2 | 87.9 | 6.6 | 4.8 | 5.2 | 7.6 | 5.5 | 5.9 |
| Brownsville-Harlingen ........................................................ | 106.3 | 110.0 | 109.3 | 13.3 | 12.7 | 12.7 | 12.5 | 11.5 | 11.6 |
| Bryan-College Station ....................................................... | 60.5 | 59.3 | 60.8 | 3.0 | 2.3 | 2.3 | 5.0 | 3.9 | 3.8 |
| Corpus Christi .................................................................. | 161.2 | 159.7 | 159.5 | 14.3 | 11.2 | 11.3 | 8.9 | 7.0 | 7.1 |
| Dallas | 1,471.4 | 1,457.2 | 1,458.6 | 87.3 | 77.6 | 77.6 | 5.9 | 5.3 | 5.3 |
| El Paso .................................................................... | 255.0 | 257.1 | 256.6 | 27.5 | 27.6 | 27.4 | 10.8 | 10.7 | 10.7 |
| Fort Worth-Arlington ................................................... | 740.1 | 742.3 | 739.2 | 43.5 | 42.5 | 39.7 | 5.9 | 5.7 | 5.4 |
| Galveston-Texas City ............................................... | 114.6 | 113.8 | 113.9 | 8.9 | 8.3 | 8.3 | 7.7 | 7.3 | 7.3 |
| Houston .............. | 1,721.4 | 1,723.3 | 1,728.3 | 110.5 | 93.7 | 94.9 | 6.4 | 5.4 | 5.5 |
| Killeen-Temple . | 100.0 | 101.3 | 100.5 | 7.8 | 7.2 | 6.8 | 7.8 | 7.1 | 6.8 |
| Laredo ............. | 52.5 | 53.6 | 53.6 | 6.0 | 5.4 | 5.1 | 11.5 | 10.0 | 9.5 |
| Longview-Marshall .................................................. | 82.7 | 81.0 | 81.2 | 7.5 | 5.9 | 5.8 | 9.1 | 7.2 | 7.2 |
| Lubbock .................................................................. | 117.1 | 114.7 | 115.6 | 7.2 | 6.3 | 6.3 | 6.2 | 5.5 | 5.4 |
| McAllen-Edinburg-Mission | 152.4 | 162.3 | 156.0 | 25.3 | 25.6 | 25.2 | 16.6 | 15.7 | 16.2 |
| Midland ............................ | 50.7 | 49.5 | 49.6 | 3.5 | 2.8 | 2.9 | 6.8 | 5.6 | 5.9 |
| Odessa | 53.2 | 51.1 | 51.3 | 4.9 | 3.5 | 3.4 | 9.3 | 6.8 | 6.5 |
| San Angelo | 46.2 | 44.8 | 44.3 | 2.7 | 2.8 | 2.6 | 5.9 | 6.2 | 6.0 |
| San Antonio . | 624.6 | 618.2 | 615.6 | 49.9 | 44.7 | 45.3 | 8.0 | 7.2 | 7.4 |
| Sherman-Denison | 47.9 | 47.0 | 47.1 | 3.0 | 2.5 | 2.5 | 6.2 | 5.2 | 5.3 |
| Texarkana | 58.8 | 58.0 | 57.5 | 4.4 | 3.7 | 3.9 | 7.5 | 6.4 | 6.7 |
| Tyler .............. | 77.1 | 75.6 | 75.4 | 5.9 | 4.8 | 4.8 | 7.7 | 6.4 | 6.4 |
| Victoria | 36.3 | 36.6 | 37.1 | 2.4 | 1.8 | 2.0 | 6.6 | 4.9 | 5.4 |
| Waco ... | 94.3 | 95.8 | 93.9 | 5.9 | 6.9 | 6.0 | 6.2 | 7.2 | 6.4 |
| Wichita Falls .................................................................... | 57.9 | 56.8 | 56.2 | 3.8 | 3.8 | 3.6 | 6.6 | 6.6 | 6.3 |
| Utah | 797.9 | 796.6 | 799.0 | 35.6 | 38.6 | 35.4 | 4.5 | 4.8 | 4.4 |
| Provo-Orem .................................................................... | 110.2 | 113.4 | 114.1 | 4.8 | 4.9 | 4.3 | 4.4 | 4.3 | 3.8 |
| Salt Lake City-Odgen ....................................................... | 519.0 | 512.0 | 516.0 | 21.8 | 24.2 | 22.2 | 4.2 | 4.7 | 4.3 |
| Vermont | 313.5 | 313.5 | 310.6 | 11.4 | 13.8 | 14.0 | 3.6 | 4.4 | 4.5 |
|  | 79.5 | 80.2 | 80.0 | 2.3 | 2.4 | 2.6 | 2.9 | 3.0 | 3.2 |
| Virginia .............................................................................. | 3,221.1 | 3,194.8 | 3,231.2 | 106.8 | 133.8 | 122.2 | 3.3 | 4.2 | 3.8 |
| Charlottesville ............................................................ | 71.4 | 73.6 | 73.8 | 1.4 | 1.9 | 1.6 | 2.0 | 2.6 | 2.1 |
| Danville .................................................................... | 52.1 | 51.9 | 51.9 | 3.0 | 4.0 | 3.6 | 5.7 | 7.7 | 6.9 |
| Lynchburg ........................................................................ | 73.8 | 74.1 | 73.7 | 2.7 | 3.4 | 3.0 | 3.7 | 4.5 | 4.1 |
| Norfolk-Virginia Beach-Newport News | 638.2 | 633.4 | 641.2 | 24.0 | 31.4 | 27.7 | 3.8 | 5.0 | 4.3 |
| Richmond-Petersburg | 464.7 | 456.8 | 464.7 | 14.6 | 18.7 | 15.6 | 3.2 | 4.1 | 3.4 |
| Roanoke .......................................................................... | 124.5 | 121.6 | 124.4 | 4.3 | 3.7 | 3.9 | 3.5 | 3.1 | 3.1 |
| Washington ....................................................................... | 2,475.3 | 2,564.1 | 2,548.2 | 152.4 | 122.5 | 128.1 | 6.2 | 4.8 | 5.0 |
| Seattie ............................................................................ | 1,111.6 | 1,147.7 | 1,139.0 | 52.8 | 41.0 | 42.0 | 4.8 | 3.6 | 3.7 |
| West Virginia .................................................................... | 778.9 | 777.8 | 780.8 | 58.6 | 52.0 | 55.9 | 7.5 | 6.7 | 7.2 |
| Charleston ....................................................................... | 118.2 | 121.5 | 121.5 | 6.2 | 6.4 | 6.2 | 5.2 | 5.2 | 5.1 |
| Huntington-Ashiand .......................................................... | 132.4 | 132.3 | 132.7 | 7.9 | 8.0 | 8.1 | 6.0 | 6.1 | 6.1 |
| Parkersburg-Marietta ........................................................ | 73.5 | 73.6 | 74.5 | 3.8 | 4.2 | 4.4 | 5.2 | 5.8 | 5.9 |
| Wheeling ......................................................................... | 73.7 | 74.1 | 72.2 | 4.0 | 4.0 | 3.6 | 5.4 | 5.4 | 5.0 |
| Wisconsin | 2,650.8 | 2,604.9 | 2,617.6 | 103.2 | 106.7 | 92.5 | 3.9 | 4.1 | 3.5 |
| Appleton-Oshkosh-Neenah .............................................. | 176.4 | 174.5 | 174.7 | 6.4 | 8.0 | 6.1 | 3.6 | 4.6 | 3.5 |
| Eau Claire ........................................................................ | 75.8 | 75.2 | 75.2 | 2.6 | 3.1 | 2.5 | 3.4 | 4.1 | 3.3 |
| Green Bay ....................................................................... | 111.5 | 113.4 | 111.0 | 4.0 | 4.1 | 3.4 | 3.6 | 3.6 | 3.0 |
| Janesville-Beloit ............................................................... | 75.5 | 72.6 | 74.6 | 4.5 | 3.2 | 4.5 | 6.0 | 4.5 | 6.0 |
| Kenosha ................................................................ | 54.5 | 52.5 | 52.8 | 4.6 | 2.9 | 3.3 | 8.4 | 5.6 | 6.2 |
| La Crosse ................................................................... | 54.6 | 53.0 | 53.3 | 2.0 | 1.7 | 1.7 | 3.7 | 3.2 | 3.2 |
| Madison .......................................................................... | 227.9 | 224.4 | 228.0 | 5.3 | 5.1 | 4.5 | 2.3 | 2.3 | 2.0 |
| Milwaukee ...................................................................... | 777.5 | 776.7 | 773.6 | 27.6 | 33.4 | 25.9 | 3.5 | 4.3 | 3.4 |
| Racine ............................................................................ | 93.5 | 92.3 | 91.8 | 4.5 | 4.1 | 3.4 | 4.8 | 4.4 | 3.8 |
| Sheboygan ....................................................................... | 61.5 | 59.8 | 61.6 | 2.4 | 2.2 | 2.8 | 3.9 | 3.6 | 4.5 |
| Wausau ........................................................................... | 66.2 | 64.9 | 65.7 | 2.4 | 2.4 | 2.1 | 3.7 | 3.7 | 3.2 |
| Wyoming ........................................................................... | 244.7 | 249.0 | 247.8 | 15.4 | 9.6 | 8.9 | 6.3 | 3.9 | 3.6 |
| Casper ............................................................................ | 30.5 | 31.0 | 30.3 | 2.3 | 1.3 | 1.3 | 7.4 | 4.3 | 4.2 |

[^17]
## Explanatory Notes

## Introduction

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

Data based on household interviews are obtained from a sample survey of the population 16 years of age and over. The survey is conducted each month by the Bureau of the Census for the Bureau of Labor Statistics and provides comprehensive data on the labor force, the employed, and the unemployed, including such characteristics as age, sex, race, family relationship, marital status, occupation, and industry attachment. The survey also provides data on the characteristics and past work experience of those not in the labor force. The information is collected by trained interviewers from a sample of about 60,000 households, representing 729 areas in 1,973 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 12 th 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 nonfarm wage and salary employment, average weekly hours, average hourly earnings, and average weekly earnings for the Nation, States, and metropolitan areas. The employment, hours, and earnings series are currently based on payroll reports from a sample of over 340,000 establishments employing over 40 million nonfarm wage and salary workers. The data relate to all workers, full or part time, who receive pay during the payroll period which includes the 12th day of the 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 definitions 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 the 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, unpaid workers who worked 15 hours or more during the survey week in family-operated enterprises, and members of the Armed Forces stationed in the United States. Civilian employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of nonfarm establishments.

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

Unpaid absences from jobs. The household survey includes among the employed all civilians 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 disputes, 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.

## Hours of work

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

## Earnings

The household survey measures median earnings of wage and salary workers in all occupations and industries in both the private and public sectors. Data refer to the usual earnings received from the worker's sole or primary job. Data from the establishment survey generally refer to average earnings of production and related workers in mining and manufacturing, construction workers in construction, and nonsupervisory employees in private service-producing industries. For a comprehensive discussion of the household survey earnings series, see Technical Description of the Quarterly Data on Weekly Earnings from the Current Population Survey, BLS Bulletin 2113.

## COMPARABILITY OF THE HOUSEHOLD DATA WITH OTHER SERIES

Unemployment insurance data. The unemployed total from the household survey includes all persons who did not have a job at all during the survey week and were looking for work or were waiting to be called back to a job from which they had been laid off, whether or not they were eligible for unemployment insurance. Figures on unemployment insurance claims, prepared by the Employment and Training Administration of the Department of Labor, exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). Beginning in January 1978, coverage was extended to include domestic workers whose employers paid $\$ 1,000$ or more in wages in any calendar quarter, agricultural employees whose employers engaged 10 or more workers in 20 weeks or paid a total of $\$ 20,000$ or more in wages in any calendar quarter, and almost all State and local government employees.
In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used in the household survey. For example, persons with a job but not at work and persons working only a few hours during the week are sometimes eligible for unemployment
compensation but are classified as employed rather than unemployed in the household survey.
For an examination of the similarities and differences between State insured unemployment and total unemployment, see "Measuring Total and State Insured Unemployment" by Gloria P. Green in the June 1971 issue of the Monthly Labor Review.

Agricultural employment estimates of the Department of Agriculture. The principal differences in coverage are the inclusion of persons under 16 in the Economics and Statistics Service 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 their impact on differences in the levels and trends 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 sample surveys of manufacturing and business establishments. The major reasons for noncomparability are different treatment of business units considered parts of an establishment, such as central administrative offices and auxiliary units, the industrial classification of establishments, and different reporting patterns by multiunit companies. There are also differences in the scope of the industries covered, e.g., the Census of Business excludes professional services, public utilities, and financial establishments, whereas these are included in the bLS statistics.

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

## Employment covered by State unemployment insurance pro-

 grams. Most nonfarm wage and salary workers are covered by the unemployment insurance programs. However, certain activities, such as interstate railroads, parochial schools, and churches are not covered by unemployment insurance whereas these are included in the BLS establishment statistics.
## 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. Historical national data are published in Labor Force Statistics Derived From the Current Population Survey, Bls Bulletin 2307.

These monthly surveys of the population are conducted through 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. The inquiry relates to activity or status during the calendar week, Sunday through Saturday, which includes the 12th of the month. This is known as the survey week. Actual field interviewing is conducted in the following week.

Inmates of institutions and persons under 16 years of age are not covered in the regular monthly enumerations, and are excluded from the population and labor force statistics shown in this publication. Data on the members of the Armed Forces stationed in the United States, who are included as part of the categories "noninstitutional population," "labor force,' and 'total employment," are obtained from the Department of Defense.

Each month about 60,000 occupied units are eligible for interview. About 2,600 of these households are visited but interviews are not obtained because the occupants are not at home after repeated calls or are unavailable for other reasons. This represents a noninterview rate for the survey of between 4 and 5 percent. In addition to the $60,000 \mathrm{oc}$ cupied units, there are 11,500 sample units in an average month which are visited but found to be vacant or otherwise not enumerated. Part of the sample is changed each month. The rotation plan provides for three-fourths of the sample to be common from one month to the next, and one-half to be common with the same month a year earlier.

## CONCEPTS AND DEFINITIONS

The concepts and definitions underlying labor force data have been modified, but not substantially altered, since the inception of the survey in 1940; those used since 1967 are as follows:

Employed persons are (a) all civilians who, during the survey week, did any work at all as paid employees, in their own business, profession, or on their own 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 disputes, or personal reasons, whether they were paid for the time off or were seeking other jobs. Members of the Armed Forces stationed in the United States are also included in the employed total.

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 who are temporarily in the United States but not living on the premises of an embassy. Excluded are persons whose only activity consisted of work around the house (painting, repairing, or own home housework) or volunteer work for religious, charitable, and similar organizations.

Unemployed persons are all civilians who had no employment during the survey week, were available for work, except for temporary illness, and had made specific efforts to find employment some time during the prior 4 weeks. Persons who were waiting to be recalled to a job from which they had been laid off or were waiting to report to a new job within 30 days need not be looking for work to be classified as unemployed.

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.

Unemployment is also categorized according to the status of individuals at the time they began to look for work. The 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 i ?ver worked at a full-time job lasting 2 weeks or longer. Each of these four categories of the unemployed may be expressed as an unemployment rate or proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers.
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 those 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 job within 30 days. Jobseekers are grouped by the methods used to seek work, including going to a public or private employment agency or to an employer directly, seeking assistance from friends or relatives, placing or answering ads, or utilizing some other method. Examples of the "other'" category include being on a union or professional register, obtaining assistance from a community organization, or waiting at a designated labor pickup point.
The civilian labor force comprises all civilians classified as employed or unemployed in accordance with the criteria described above. The labor force also includes members of the Armed Forces stationed in the United States.
The overall unemployment rate represents the number unemployed as a percent of the labor force, including members of the Armed Forces stationed in the United States.
The unemployment rate for all civilian workers 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, race, Hispanic origin, marital status, etc.
Participation rates represent the proportion of the population that is in the labor force. The labor force participation rate is the ratio of the labor force, including the resident Armed Forces, to the noninstitutional population. The civilian labor force participation rate is the ratio of the civilian labor force to the civilian noninstitutional population. Civilian labor force participation rates are usually published for sex-age groups, often cross-classified by other demographic characteristics such as race and educational attainment.
Employment-population ratios represent the proportion of the noninstitutional population that is employed. The total employment-population ratio is total employment, including the resident Armed Forces, as a percent of the noninstitutional population. The civilian employment-population ratio is the percentage of all employed civilians in the civilian noninstitutional population.
Not in the labor force includes all persons 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, retired, and other. The "other" group includes individuals reported as too old or temporarily unable to work, the voluntarily idle, seasonal workers for whom the survey week fell in an off season and who were not reported as looking for work, and persons who did not look for work because they believed that no jobs were available in the area or that no jobs were available for which they could qualifydiscouraged workers. Persons doing only incidental, unpaid family work (less than 15 hours in the specified week) are also classified as not in labor force.
For persons not in the labor force, data on previous work experience, intentions to seek work, desire for a job at the
time of interview, and reasons for not looking for work are published 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, these questions were asked in those households entering the sample for the first time and those returning for the second 4 months of interviewing, 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 job lasting 2 weeks or more. The classifications of occupations and industries used in data derived from the CPS are defined as in the 1980 census. 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 birth or marriage.
Hours of work statistics relate to the actual number of hours worked during the survey week. For example, persons who normally work 40 hours a week but were off on the Columbus Day holiday would be reported as working 32 hours even though they were 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; all the hours are credited to the major job.
Persons who worked 35 hours or more during 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 or part time) and by their reason for working part time during the survey week (economic or noneconomic reasons). Economic reasons include: Slack work, material shortages, repairs to plant or equipment, start or termination of a job during the week, and inability to find full-time work. Noneconomic reasons include: Labor dispute, bad weather, own illness, vacation, demands of home or 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 to 34 hours for noneconomic reasons and usually work full time.
Data on employment "at work" differ from data on total employment because they exclude persons in the zero-hours-
worked category, "with a job but not at work." These are persons who were absent from their jobs for the entire week for such reasons as bad weather, vacation, illness, or involvement in a labor dispute.
Employed persons are also categorized into full- and parttime groupings based primarily on their usual status. In this context, full-time workers are those who (a) worked 35 hours or more during the survey week, (b) worked 1 to 34 hours for economic or noneconomic reasons, but usually work full time, and (c) were with a job but not at work and usually work full time. Similarly, part-time workers are those who (a) voluntarily worked 1 to 34 hours during the survey week, (b) worked 1 to 34 hours for economic reasons, but usually work part time, i.e., persons who could only find part-time work, and (c) were with a job but not at work and usually work part time.

Unemployment rates for full- and part-time workers are calculated using the concepts of the full- and part-time labor force which are based on the type of job-full or part timethat persons-whether working or unemployed-report that they want. The "full-time labor force" includes all persons working part time but who desire full-time work, that is, working part time for economic reasons. Thus, this category consists of persons on full-time schedules; all persons involuntarily working part time regardless of their usual status; and unemployed persons seeking full-time jobs. The "parttime labor force" consists of persons working part time voluntarily and unemployed persons seeking part-time work. Employed persons with a job but not at work are distributed according to whether they usually work on full-time or voluntary part-time schedules.
Labor force time lost is a measure of aggregate hours lost to the economy through unemployment and involuntary parttime employment and is expressed as a percent of potentially available aggregate hours. It is computed by assuming that: (1) unemployed persons looking for full-time work lost an average of 37.5 hours, (2) 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) persons on part time for economic reasons lost the difference between 37.5 hours and the actual number of hours they worked.

White, black, and other are terms used to describe the race of workers. Included in the "other" group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. All tables in this publication which contain racial data, with the exception of A-5 and its annual counterpart, present data for the black population group. Because of their relatively small sample size, data for "other" races are not published. In the enumeration process, race is determined by the household respondent.
Hispanic origin refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican living on the mainland, Cuban, Central or South American, or of other Hispanic origin or descent. Persons of Hispanic origin
may be of any race; thus they are included in both the white and black population groups.
Vietnam-era veterans are those who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Data are limited to men in the civilian noninstitutional population; i.e., veterans in institutions and women are excluded. Nonveterans are men who never served in the Armed Forces.

Usual weekly earnings data are provided from responses to the question "How much does...USUALLY earn per week at this job before deductions?" Included are any overtime pay, commissions, or tips usually received. The term "usual" is as perceived by the respondent. If the respondent asks for a definition of usual, interviewers are instructed to define the term as more than half the weeks worked during the past 4 or 5 months. Data refer to wage and salary workers (excluding the incorporated self-employed) who usually work full time on their sole or primary job.
Median earnings indicate the value which divides the earnings distribution into two equal parts, one part having values above the median and the other having values below the median. The medians as shown in this publication are calculated by linear interpolation of the $\$ 50$ centered interval within which each median falls.
Data expressed in constant dollars are deflated by the Consumer Price Index for All Urban Consumers (CPI-U).
Single, never married; married, spouse present; and other marital status are terms used to define the marital status of individuals at the time of interview. Married, spouse present, applies to husband and wife if both were reported as members of the same household even though one may be temporarily absent on business, vacation, on a visit, in a hospital, etc. Other marital status applies to persons who are married, spouse absent; widowed; or divorced. Married, spouse absent, includes persons who are separated because of marital discord, as well as persons who are living apart because either the husband or the wife was employed and living away from home, serving in the Armed Forces, or had a different place of residence for any reason.
A household consists of all persons-related family members and all unrelated persons-who occupy a housing unit. A house, an apartment, a group of rooms, or a single room is regarded as a housing unit when occupied or intended for occupancy as separate living quarters.

A householder is the person (or one of the persons) in whose name the housing unit is owned or rented. The term is never applied to either husbands or wives in married-couple families but relates only to persons in families maintained by either men or women without a spouse.
Family refers to a group of two or more persons residing together who are related by birth, marriage, or adoption; all such persons are considered as members of one family even though they may include a related subfamily, that is, a married couple or a parent-child group related by birth or marriage to the householder and sharing the living quarters. The
count of families used in this publication excludes unrelated subfamilies such as lodgers, guests, or resident employees living in a household but not related to the householder. Families are classified either as married-couple families or as families maintained by women or men without spouses. A family maintained by a woman or a man is one in which the householder is either single, widowed, divorced, or married, spouse absent. Data on the earnings of families exclude all those in which there is no wage or salary earner or in which the husband, wife, or other persons maintaining the family is either self-employed or in the Armed Forces.

Poverty areas are defined as those census tracts in tracted areas, and Minor Civil Division's (MCD's) in untracted areas, in which 20 percent or more of the noninstitutional residents were poor according to the 1980 decennial census. Persons were classified as poor or nonpoor by comparing money income to a series of poverty income thresholds which vary by family size and number of children. 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 Metropolitan Statistical Areas (MSA's) as defined by the Office of Management and Budget (OMB) as of June 30, 1983. These definitions differ from those used in the 1980 decennial census. A detailed discussion of the MSA definitions as well as changes in terminology can be found in "The New Metropolitan Area Definitions" section of the 1980 Census of Population Supplementary Report on Metropolitan Statistical Areas, PC-S1-18. Nonmetropolitan areas consist of the total territory outside MSA's.
The urban population, as defined for the 1980 census, comprises all persons living in urbanized areas and in places of 2,500 or more inhabitants outside urbanized areas. More specifically, the urban population consists of all persons living in (1) places of 2,500 or more inhabitants incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the New England States, New York, and Wisconsin), but excluding those persons living in the rural portions of extended cities; (2) other territories, incorporated and unincorporated, included in urbanized areas. The population not classified as urban constitutes the rural population.

## HISTORICAL COMPARABILITY

## Change in lower age limit

The lower age limit for official statistics on the labor force, employment, and unemployment was raised from 14 to 16 years of age in January 1967. Insofar as possible, historical series have been revised to provide consistent information based on the population 16 years and over. For a detailed discussion of this and other definitional changes introduced at that time, including estimates of their effect on the various series, see ''New Definitions for Employment and

Unemployment," Employment and Earnings and Monthly Report on the Labor Force, February 1967.

## Noncomparability of labor force levels

In addition to the changes introduced in 1967, there are several other periods of noncomparability in the labor force data: (1) Beginning in 1953, as a result of introducing data from the 1950 census into the estimating procedures, population levels were raised by about 600,000 ; labor force, total employment, and agricultural employment were increased by about 350,000 , primarily affecting the figures for totals and men; other categories were relatively unaffected. (2) Beginning in 1960, the inclusion of Alaska and Hawaii resulted in an increase of about 500,000 in the population and about 300,000 in the labor force. Four-fifths of this increase was in nonagricultural employment; other labor force categories were not appreciably affected. (3) Beginning in 1962, the introduction of data from the 1960 census reduced the population by about 50,000 and labor force and employment by about 200,000; unemployment totals were virtually unchanged. (4) Beginning in 1972, information from the 1970 census was introduced into the estimation procedures, increasing the population by 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. (5) A subsequent population adjustment based on the 1970 census was introduced in March 1973. This adjustment, which affected the white and black-and-other groups but had little effect on totals, 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.

In addition, 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 estimates had its greatest impact on estimates of 20- to 24-year old menparticularly those of the black-and-other population-but had little effect on estimates of the total population 16 years and over. Additional information on the adjustment procedure appears in "CPS Population Controls Derived from InflationDeflation Method of Estimation', in the February 1974 issue of Employment and Earnings.

Effective in 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 $76,000-30,000$ men and 46,000 women. 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 January 1978, the introduction of an expansion in the sample and revisions in the estimation procedures resulted in an increase of about 250,000 in the 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 by the interviewer as before. The purpose of this change was to provide more accurate estimates of characteristics by race. Thus, in October 1978, one-eighth of the sample households had race determined by the household respondent and seven-eighths of the sample households had race determined by interviewer observation. It was not until January 1980 that the entire sample had race determined by the household respondent. The new procedure had no significant effect on the estimates.

Beginning in January 1979, the first-stage ratio estimation method was changed in the CPS estimation procedure. Differences between the old and new procedures existed only for metropolitan and nonmetropolitan area estimates, not for the total United States. 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 1979 issue of Employment and Earnings.

Beginning in January 1982, the second-stage ratio adjustment methodology was changed in the CPS estimation procedure. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in 'Revisions in the Current Population Survey Beginning in January 1982'" in the February 1982 issue of Employment and Earnings. In addition, current population estimates used in the second-stage estimation procedure are derived from information obtained from the 1980 census, rather than the 1970 census. This change caused substantial increases in total population and estimates of persons in all labor force categories. Rates for labor force characteristics, however, remained virtually unchanged. Some 30,000 labor force series were adjusted back to 1970 to avoid major breaks in series. The adjustment procedure used is also described in the February 1982 article cited above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 that are described above, and data users should make allowances for them in making certain data comparisons.

Beginning in January 1983, the first-stage ratio adjustment methodology was updated to account for results obtained from the 1980 census. The purpose of the change and an indication of its effect on national estimates of labor force characteristics appear in 'Revisions in the Current Population Survey Beginning in January 1983'' in the February 1983 issue of Employment and Earnings. There were only slight differences between the old and new procedures in estimates of levels for the various labor force characteristics and virtually no differences in estimates of participation rates.

Beginning in January 1985, most of the steps of the CPS estimation procedure-the noninterview adjustment, the first and second-stage ratio adjustments, and the composite estimator-were revised. These procedures are described in the Estimating Methods section. A description of the changes and an indication of their effect on national estimates of labor force characteristics appear in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985'' in the February 1985 issue of this publication. Overall, the revisions had only a slight effect on most estimates. The greatest impact was on estimates of persons of Hispanic origin. Major estimates were revised back to January 1980.

Beginning in January 1986, the population controls used in the second-stage ratio adjustment methodology were revised to reflect an explicit estimate of the number of undocumented immigrants (largely Hispanic) since 1980 and an improved estimate of the number of emigrants among legal foreign-born residents for the same time period. As a result, the total civilian population and labor force estimates were raised by nearly 400,000 ; civilian employment was increased by about 350,000 . The Hispanic-origin civilian population and labor force estimates were raised by about 425,000 and 305,000 , respectively, and civilian employment by 270,000 . Overall and subgroup unemployment levels and rates were not significantly affected. Because of the magnitude of the adjustments for Hispanics, data have been revised back to January 1980 to the extent possible. An explanation of the changes and their effect on estimates of labor force characteristics appears in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986 '' in the February 1986 issue of this publication.

Beginning in August 1989, the second-stage ratio estimate cells were changed slightly to decrease the chance of very small cells occurring and to be more consistent with published age, sex, race cells. This change had virtually no effect on national estimates.

## Changes in the occupational and industrial classification system

Beginning in 1971, the comparability of occupational employment data was affected as a result of changes in the occupational classification system for the 1970 census that were introduced into the CPS. Comparability was further affected in December 1971, when a question relating to major activity or duties was added to the monthly CPS questionnaire in order to determine more precisely the occupational classification of individuals. As a result of these changes, meaningful comparisions of occupational employment levels could not be made between 1971-72 and prior years nor between those 2 years. Unemployment rates were not significantly affected. For a further explanation of the changes in the occupational classification system, see "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.

Beginning in January 1983, the occupational and industrial classification systems used in the 1980 census were introduced into the cPS. These systems differ from those developed for the 1970 census, which were used in the CPS from January 1971 through December 1982.
The 1980 census occupational classification system evolved from the Standard Occupational Classification system (SOC). While the CPS occupational data are now comparable with other data sources, the new system is so radically different in concepts and nomenclature from the 1970 system that comparisons of historical data are not possible without major adjustments. For example, the 1980 major group "sales occupations" is substantially larger than the 1970 category "sales workers." Major additions include "cashiers" from "clerical workers" and some self-employed proprietors in retail trade establishments from "managers and administrators, except farm."
The industrial classification system used in the 1980 census is based on the 1972 Standard Industrial Classification system (SIC), as modified in 1977. The adoption of the new system had much less of an adverse effect on historical comparability than did the new occupational system. The most notable changes from the 1970 system were the transfer of farm equipment stores from "retail" to "wholesale" trade, postal service from "public administration" to "transportation," and some interchange between "professional and related services" and "public administration."
Additional information on the 1980 census occupational and industrial classification systems appears in "Revisions in the Current Population Survey Beginning in January 1983"' in the February 1983 issue of Employment and Earnings.

## Changes in the 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, the number of sample areas and the number of sample persons are increased occasionally. In 1953, the current rotation plan was introduced, in which a sample unit is interviewed for 4 months, leaves the sample for 8 months, and then returns to the sample for another 4 months. When Alaska and Hawaii achieved statehood, three more sample areas were added 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 noncontiguous cluster of six housing units to a usually contiguous cluster of four housing units. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia
and designed to provide more reliable annual average estimates for States, was incorporated into the design. In October 1978, a coverage improvement sample, composed of approximately 450 sample household units which represented 237,000 occupied mobile homes and 600,000 new construction housing units, was included in computing the estimates in order to provide coverage of mobile homes and new construction units that previously had no chance for selection in the CPS sample selected from the 1970 census frame. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added to the existing sample. A sample reduction of about 6,000 units was implemented in May 1981. Beginning in January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to SMSA's, which were redefined in 1973.
Beginning in 1985, a new State-based CPS sample was selected based on 1980 cenus information, providing an opportunity to improve the efficiency of the sample design and increase the reliability for State estimates. Sample households are chosen from 729 sample areas, which represent 1,973 geographic areas in the United States. This current number of sample areas is not completely comparable to the old number of sample areas since many of the sample areas have been redefined. (See pp. 7-10 of the May 1984 issue of Employment and Earnings, for an overview of these new definitions and the introduction of the new sample.) A sample reduction of about 4,000 households was implemented in April 1988; they were reinstated during the 8 -month period, April-November 1989.

Table A provides a description of some aspects of the CPS sample design in use during the different data collection periods. A more detailed account of the history of the CPS sample design appears in the Current Population Survey: Design and Methodology, Technical Paper No. 40, Bureau of the Census, or Concepts and Methods Used in Labor Force Statistics Derived from the Current Population Survey, Report 463, Bureau of Labor Statistics.

## 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. The estimation procedure involves weighting the data from each sample person by the inverse of the probability of the person being in the sample. This gives a rough measure of the number of actual persons that the sample person represents. Beginning in 1985, almost all sample persons within the same State have the same probability of selection. These estimates are then adjusted for noninterviews, 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

Table A. Characteristics of the CPS sample, 1947 to date

| Time period | Number of sample areas | Households eligible |  | Households visited but not eligible |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Interviewed | Not interviewed |  |
| Aug. 1947 to Jan. 1954 | 68 | 21,000 | 500-1,000 | 3,000-3,500 |
| Feb. 1954 to Apr. 1956 | 230 | 21,000 | 500-1,000 | 3,000-3,500 |
| May 1956 to Dec. 1959 | 1330 | 33,500 | 1,500 | 6,000 |
| Jan. 1960 to Feb. 1963 | 2333 | 33,500 | 1,500 | 6,000 |
| Mar. 1963 to Dec. 1966 | 357 | 33,500 | 1,500 | 6,000 |
| Jan. 1967 to July 1971 | 449 | 48,000 | 2,000 | 8,500 |
| Aug. 1971 to July 1972 | 449 | 45,000 | 2,000 | 8,000 |
| Aug. 1972 to Dec. 1977 | 461 | 45,000 | 2,000 | 8,000 |
| Jan. 1978 to Dec. 1979 | 614 | 53,500 | 2,500 | 10,000 |
| Jan. 1980 to Apr. 1981 | 629 | 62,200 | 2,800 | 12,000 |
| May 1981 to Dec. 1984 | 629 | 57,800 | 2,500 | 11,000 |
| Jan. 1985 to Mar. 1988 | 729 | 57,000 | 2,500 | 11,000 |
| Apr. 1988 to Mar. 1989 | 729 | 53,200 | 2,600 | 11,500 |
| Nov. 1989 to present ${ }^{3}$. | 729 | 57,400 | 2,600 | 11,800 |

[^18]obtained because of absence, impassable roads, refusals, or unavailability of the respondents for other reasons. This noninterview adjustment is made separately by combinations of similar sample areas that are not necessarily contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within each combination of sample areas there is a further breakdown by residence. MSA sample areas are categorized by "central city"' and "balance of the MSA." Residence categories of non-MSA areas are "urban" and "rural." The proportion of sample households not interviewed varies from 4 to 5 percent, depending on weather, vacation, 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 survey 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 729 sample areas is chosen to represent other areas not in the sample; the remainder of the sample areas represent only themselves. The first-stage ratio estimation procedure was designed to reduce the portion of the variance resulting from requiring sample areas to represent nonsample areas. Therefore, this procedure is not applied to sample areas which represent only themselves. The adjustment is made at the State level for each of the 43 States which contains nonsample areas by race cells of black and non-black. The procedure corrects for differences that existed in each cell at the time of the 1980 census between the race distribution of the population in sample areas and the known race distribution of the State.
${ }^{3}$ The sample was increased incrementally during the 8 -month period, AprilNovember 1989.
b. Second-stage ratio estimate. In this stage, the sample proportions of persons in specific categories are adjusted to the distribution of independent current estimates of the civilian noninstitutional population in the same categories. The second-stage ratio adjustment, which is performed to further reduce variability of the estimates and to correct to some extent for CPS undercoverage relative to the decennial census, is carried out 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. The second step involves an adjustment by Hispanic origin to a national estimate for eight age-sex categories by Hispanic and non-Hispanic. In the third step, a national adjustment is made by the race categories of white, black, and other races to independent estimates by age and sex. The white and black categories contain 38 and 24 agesex groups respectively; the other races category has 4 agesex cells. The entire second-stage adjustment procedure is iterated six times, each time beginning at the weights developed the previous time. This ensures that the sample estimates of the population for both State and national age-sex-race-origin categories will be virtually equal to the independent population control totals. This second-stage adjustment procedure incorporates changes instituted in January 1985 and August 1989. The nature and effect of the 1985 changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1985', in the February 1985 issue of Employment and Earnings.

The 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 using the two most recent July 1 estimates, 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 957 of that series. A description of the age
estimates methodology is available in Report 1010 of that series.

Prior to January 1985, there was no separate control for Hispanics in the second-stage ratio procedure. These Hispanic controls are prepared by carrying forward the 1980 census count for Hispanics by adding estimated Hispanic births and immigrants and subtracting estimated Hispanic deaths and emigrants to yield an estimate of the Hispanic population by age and sex.

During the period from January 1982 to December 1984, the 'inflation-deflation' method was temporarily discontinued in the preparation of the independent national controls used for the age-sex-race groups in the third step of the second-stage ratio estimation procedure. These controls were prepared by carrying forward the 1980 census data after taking account of subsequent aging of the population, births, deaths, and net migration and then subtracting the estimate for the institutional population and Armed Forces. Beginning in January 1985, the "inflation-deflation" method of deriving independent population controls was reintroduced into the CPS estimation procedure. With the "inflationdeflation" method, the independent controls are prepared by inflating the 1980 census counts to include estimated undercounts 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. Because an estimate of undercount is first added and then șubtracted, the size of each race-sex group is unaffected by the "inflation-deflation" method. Similarly, the final estimate is affected only by the age structure of the undercount, but not the level. This feature of the method is important since the exact amount of undercount in the 1980 census remains unknown.

Data on births and deaths between April 1, 1980, and the estimate date are based on tabulations of vital statistics for the resident population made by the National Center for Health Statistics and data on deaths of military personnel overseas from the Department of Defense. Estimates of net civilian immigration are based on data provided by the Immigration and Naturalization Service, the Department of Defense, the Office of Personnel Management, and the Puerto Rico Planning Board. The civilian noninstitutional population is derived by subtracting the Armed Forces and the institutional population for the estimate date from the total including Armed Forces overseas. The institutional population is computed by applying institutional proportions derived from the 1980 census to the total population, including Armed Forces overseas for the estimate date. All computations described above are performed in cells defined by single year of age, race, and sex. The independent national control totals are then obtained by collapsing these cells into broader age groups for the population 16 years and older.
Beginning in January 1986, two changes were introduced into the estimation of the independent population controls.

For the first time, an explicit allowance for net undocumented immigration since April 1, 1980 (the census date) was added to the estimated level of legal immigration. In addition, an increase in the estimate of emigration of legal foreignborn residents has been incorporated into the post-censal population estimates since 1980. The nature and effect of these changes are discussed in detail in "Changes in the Estimation Procedure in the Current Population Survey Beginning in January 1986'’ in the February 1986 issue of Employment and Earnings.
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. Also included is an additional term which is an estimate of the net difference between incoming and continuing parts of the current month's sample. Almost all estimates of month-to-month change are improved by this procedure, and most estimates of level 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. Similarly, sums of percent distributions may not always equal 100 percent because of rounding. 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 error. The full extent of nonsampling error is unknown, but special studies have been conducted to quantify some sources of nonsampling error in the CPS, as discussed below. The effect of nonsampling error should be small on estimates of relative change, such as month-tomonth change. Estimates of monthly levels would be more severely affected by the nonsampling error.

Nonsampling errors in surveys can be attributed to many sources, e.g., inability to obtain information about all cases in the sample, definitional difficulties, differences in the interpretation of questions, inability or unwillingness of respondents to provide correct information, inability to recall information, errors made in collection such as in recording or coding the data, errors made in processing the data, errors made in estimating values for missing data, and failure to represent all sample households and all persons within
sample households (undercoverage).
Nonsampling errors occurring in the interview phase of the survey have been studied by means of a reinterview program. This program is used to estimate various sources of error as well as to evaluate and control the work of the interviewers. A random sample of each interviewer's work is inspected through reinterview at regular intervals. The results indicate, among other things, that the data published from the CPS are subject to moderate systematic biases. A description of the CPS reinterview program and some of the other results may be found in the Current Population Survey Reinterview Program, January 1961 through December 1966, Technical Paper No. 19, Bureau of the Census, U.S. Department of Commerce.
The effects of some components of nonsampling error in the CPS data can be examined as a result of the rotation plan used for the sample, since the level of the estimates varies by rotation group. A description of these effects appears in "The Effects of Rotation Group Bias on Estimates From Panel Surveys," by Barbara A. Bailar, Journal of the American Statistical Association, Volume 70, No. 349, March 1975.

Undercoverage in the CPS results from missed housing units and missed persons within sample households. Compared to the level of the decennial census, undercoverage is about 6 percent. It is known that the CPS undercoverage varies with age, sex, race, and Hispanic origin. Generally, undercoverage is larger for men than for women, and larger for blacks, Hispanics, and other races combined than for whites. Ratio estimation to independent age-sex-race-origin 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-origin group. Further, the independent population controls used have not been adjusted for undercoverage in the 1980 census.

Additional information on nonsampling error in the CPS appears 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 Current Population Survey: An Overview," by Marvin Thompson and Gary Shapiro, Annals of Economic and Social Measurement, Vol. 2, April 1973; and in The Current Population Survey, Design and Methodology, Technical Paper No. 40, Bureau of the Census, U.S. Department of Commerce. This last document includes a comprehensive 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 enable one to construct confidence intervals, ranges that would include the average of all possible samples with a known probability. For example, if all possible samples were selected, each of these surveyed under essentially the same general conditions and using the same sample design, and an estimate and its estimated error were calculated from each sample, then:

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

In order to derive standard errors that would be applicable to a large number of estimates and could be prepared at a moderate cost, a number of approximations are required. First, the standard errors in this volume reflect the sample design and estimation procedures in effect prior to the expansions for State estimates. Thus, these standard errors may slightly overstate the standard errors applicable to the present design. Second, instead of computing an individual standard error for each estimate, generalized sets of standard errors are 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 B and C show approximate standard errors for major employment status characteristics for monthly estimates and for changes for consecutive months. These standard errors are applicable to the level of the estimates in recent months.

Tables D through H provide generalized standard errors for monthly level and month-to-month change for estimated totals, unemployment rates, and percentages. Table I contains factors for use with table H for computing standard errors, as described below, for monthly level and month-tomonth change for percentages. Standard errors for intermediate values not shown in the table 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-tomonth 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

Table B. Standard errors for major employment status categories

| Employment status, sex, age, and race | Standard error of- |  |
| :---: | :---: | :---: |
|  | Monthly level | Month-tomonth change (consecutive months only) |
| Total, 16 years and over: |  |  |
| Civilian labor force | 275 | 212 |
| Employed | 293 | 224 |
| Unemployed | 136 | 140 |
| Men, 20 years and over: |  |  |
| Civilian labor force | 173 | 151 |
| Employed | 186 | 163 |
| Unemployed | 93 | 95 |
| Women, 20 years and over: |  |  |
| Civilian labor force | 211 | 155 |
| Employed | 212 | 160 |
| Unemployed | 83 | 87 |
| Both sexes, 16 to 19 years: |  |  |
| Civilian labor force. | 88 | 94 |
| Employed | 92 | 102 |
| Unemployed | 59 | 66 |
| Black, 16 years and over: |  |  |
| Civilian labor force.. | 94 | 73 |
| Employed | 104 | 79 |
| Unemployed. | 68 | 71 |
| Men, 20 years and over: |  |  |
| Civilian labor force | 59 | 51 |
| Employed | 64 | 57 |
| Unemployed | 44 | 47 |
| Women, 20 years and over: |  |  |
| Civilian labor force | 76 | 50 |
| Employed | 76 | 54 |
| Unemployed | 45 | 48 |
| Both sexes, 16 to 19 years: |  |  |
| Civilian labor force | 36 | 40 |
| Employed.. | 33 | 38 |
| Unemployed | 30 | 33 |

change between 2 consecutive months. Estimates of change for nonconsecutive months are subject to higher standard errors. Table J contains factors for use with tables D, F, H, and I to compute approximate standard errors for levels, labor force participation rates, and percentages as pertaining to the year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. Note that standard errors for changes in quarterly and yearly estimates apply only to consecutive quarters and years. For years prior to 1967, the standard errors must be adjusted due to the differences in the sample size. For years prior to 1956, the standard errors should be multiplied by 1.50, and for the 1956-66 period, they should be multiplied by 1.22 . Table K provides generalized standard errors for quarterly estimates of persons and families for use with the CPS earnings data.

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

Illustration. Assume that in a given month the number of persons working a specific number of hours was $12,000,000$, an increase of 400,000 over the previous month. Linear interpolation in the second column of table D shows that the standard error on an estimate of $12,000,000$ is about 174,000 . The 68-percent confidence interval as shown by these data is from $11,826,000$ to $12,174,000$. Therefore, a conclusion that the average estimate derived from all possible samples

Table C. Standard errors for unemployment rates by major characteristics

| Characteristic | Standard error of- |  | Characteristic | Standard error of- |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Monthly level | Consecutivemonth change |  | Monthly level | Consecutivemonth change |
| Total (all civilian workers) | 0.11 | 0.12 | Occupation-Continued |  |  |
| Men, 20 years and over | . 15 | . 15 | Precision production, craft, and repair | 0.32 | 0.36 |
| Women, 20 years and over. | . 16 | . 17 | Machine operators, assemblers, and |  |  |
| Both sexes, 16 to 19 years | . 67 | . 81 | inspectors . . . . . . . . . . . . . . . . . . | . 49 | 55 |
| White workers. | 11 | . 12 | Transportation and material moving | . 59 | 66 |
| Black workers | . 51 | . 54 | Handlers, equipment cleaners, helpers, and |  |  |
| Married men, spouse present | . 15 | . 17 | laborers | . 72 | 82 |
| Married women, spouse present | . 19 | . 21 | Farming, forestry, and fishing | . 68 | 76 |
| Full-time workers | . 12 | . 12 |  |  |  |
| Part-time workers | 34 | . 42 | Industry |  |  |
| Unemployed 15 weeks and over | . 06 | . 07 |  |  |  |
|  |  |  | Nonagricultural private wage and salary workers | . 12 | 13 |
| Occupation |  |  | Mining . . . | 1.63 | 1.86 |
|  |  |  | Construction | . 65 | . 75 |
| Executive, administrative, and managerial | . 22 | . 24 | Manufacturing | . 26 | . 29 |
| Professional specialty . . . . . | . 19 | . 21 | Durable goods | . 33 | . 37 |
| Technicians and related support | 47 | . 52 | Nondurable goods | 42 | 47 |
| Sales | . 29 | . 33 | Transportation, communications, and |  |  |
| Administrative suppor, including clerical | . 23 | . 26 | public utilities. | 42 | 48 |
| Private household | 1.18 | 1.33 | Wholesale and retail trade | . 27 | . 30 |
| Protective service | . 76 | . 85 | Finance and services | 20 | . 22 |
| Service, except private househoid and protective | . 39 | . 43 | Government workers Agricultural wage and salary workers | .23 1.16 | .25 1.32 |

lies within a range computed in this way would be correct for roughly 68 percent of all possible samples. Recall that the standard error of a month-to-month change is primarily dependent on the size of the monthly estimate. Thus, using linear interpolation in the first column of table E , the standard error on a month-to-month change of 400,000 , when the monthly level is approximately $12,000,000$, is about 129,000 .

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 upon 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 , the quarterly average base is less than 60,000 , or the annual average base is less than 35,000 .

Tables F and G show generalized standard errors for monthly level and month-to-month change for unemployment rates. Generalized standard errors for estimated monthly percentages and estimated month-to-month change in percentage can be obtained through the use of the standard errors in table H and the factors in table I. First obtain the standard error from table H for the specific percentage and base.

The generalized standard error is then calculated by multiplying the standard error from table H by the appropriate factor from table I. When the numerator and denominator of the percentage are in different categories, use the factor indicated by the numerator of the percentage.

Illustration. Assume that in a given month 2.9 percent of a total of $112,440,000$ employed persons are employed in agriculture. The standard error on an estimate of 2.9 percent with a base of $112,440,000$ is obtained from table H ( 0.08 percent). The appropriate factor from table I for the numerator of the percentage, agricultural employment, is 1.26. The generalized standard error on the estimated 2.9 percent is then approximately $0.08 \times 1.26=0.10$ percentage point.

Standard errors for year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages. The approximate standard errors of levels, rates, and percentages involving year-to-year change of monthly estimates, quarterly averages, changes in quarterly averages, yearly averages, and changes in yearly averages may be obtained by using table J 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

Table D. Standard errors for estimates of monthly level
(in thousands)

| Estimated monthly level | Characteristic ${ }^{1}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Agricultural employment | Unemployment |  | Labor force data other than agricultural employment and unemployment |  |  |  |  |  |
|  |  | Total or white | Black | Total or white | Black | Total or white, 16 to 19 years | Black, 16 to 19 years | Total or white men only, or women only | Black men only, or women only |
| 50 | 15 | 11 | 12 | 12 | 12 | 12 | 12 | 11 | 10 |
| 100 | 21 | 16 | 17 | 17 | 17 | 17 | 16 | 15 | 14 |
| 500 | 47 | 36 | 38 | 37 | 37 | 36 | 32 | 34 | 31 |
| 1,000 | 66 | 51 | 53 | 52 | 51 | 50 | 35 | 49 | 43 |
| 2,000 | 93 | 72 | 73 | 74 | 70 | 68 |  | 68 | 58 |
| 4,000 | 131 | 101 | 97 | 104 | 92 | 86 | - | 95 | 73 |
| 6,000. | 159 | 123 | 110 | 126 | 104 | 92 | - | 115 | 76 |
| 8,000 | 182 | 141 | 116 | 145 | 109 | 88 | - | 132 | 69 |
| 10,000 | 202 | 156 | - | -161 | 108 | 72 | - | 145 | 47 |
| 15,000 | - | 188 | - | 193 | 74 | - | - | 172 | - |
| 20,000 | - | 213 | - | 219 | - | - | - | 191 | - |
| 30,000 | - | - | - | 259 | - | - | - | 215 | - |
| 40,000 | - | - | - | 286 | - | - | - | 225 | - |
| 50,000 | - | - | - | 306 | - | - | - | 222 | - |
| 60,000 | - | - | - | 319 | - | - | - | 206 | - |
| 70,000 | - | - | - | 326 | - | - | - | 172 | - |
| 80,000 | - | - | - | 327 | - | - | - | 107 | - |
| 100,000 | - | - | - | 314 | - | - | - | - | - |
| 120,000 | - | - | - | 274 | - | - | - | - | - |
| 140,000 | - | - | - | 195 | - | - | - | - | - |

[^19]Table E. Standard errors for estimates of month-to-month change
(in thousands)

| Estimated monthly level | Characteristic ${ }^{1}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Unemployment |  |  |  | Labor force data other than unemployment and agricultural employment |  |  |  |
|  | Total or white | Both sexes 16 to 19 years, or part-time labor force ${ }^{2}$ | Black | Black, 16 to 19 years | Total or white | Black | Total or white, 16 to 19 years | Black, 16 to 19 years |
| 50 | 13 | 14 | 13 | 14 | 9 | 9 | 14 | 14 |
| 100 | 18 | 20 | 19 | 20 | 12 | 12 | 20 | 19 |
| 500 | 40 | 45 | 41 | 38 | 27 | 27 | 43 | 37 |
| 1,000 | 56 | 63 | 57 | 41 | 39 | 38 | 59 | 39 |
| 2,000 | 78 | 89 | 76 | - | 55 | 52 | 80 | - |
| 4,000 | 108 | 124 | 95 | - | 77 | 68 | 100 | - |
| 6,000 | 129 | 150 | 99 | - | 93 | 78 | 104 | - |
| 8,000 | 144 | - | 89 | - | 107 | 82 | 94 | - |
| 10,000 | 157 | - | 58 | - | 119 | 81 | 65 | - |
| 15,000 | 177 | - | - | - | 143 | 59 | - | - |
| 20,000 | 184 | - | - | - | 163 | - | - | - |
| 30,000 | - | - | - | - | 192 | - | - | - |
| 40,000 | - | - | - | - | 213 | - | - | - |
| 50,000 | - | - | - | - | 228 | - | - | - |
| 60,000 | - | - | - | - | 238 | - | - | - |
| 70,000 | - | - | - | - | 244 | - | - | - |
| 80,000 | - | - | - | - | 245 | - | - | - |
| 100,000 | - | - | - | - | 237 | - | - | - |
| 120,000 | - | - | - | - | 212 | - | - | - |
| 140,000 | - | - | - | - | 160 | - | - | - |
| 1 See footnote 1, table D. |  |  |  | the labor force, persons w unemployment. |  | eir la | and persons | by duration |

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 J to obtain the approximate standard error for the average or change.

Illustration. Suppose that one is interested in the year-to-year change of a monthly unemployment rate. Assume that for a certain month the unemployment rate is 6.2 percent, based on a total of $119,865,000$ in the civilian labor force, and that a year prior to this the unemployment rate was 7.0 percent, based on a total of $117,834,000$ in the civilian labor force for the month. First, the standard error on the average of the two estimates, 6.6 percent with a base of $118,850,000$, is obtained from table F ( 0.11 percentage point). The appropriate factor, then, from table J is 1.40 . The approximate standard error on the change of 0.8 percent is then given by $0.11 \times 1.40=0.15$ percentage point.

The approximate standard error of levels involving year-to-year change of quarterly estimates pertaining to CPS earnings data for persons and families may be obtained by using table K in conjunction with the following formula:

Standard error of year-to-year change $=$

$$
\sqrt{\left(\begin{array}{c}
\text { Stand } \\
\text { ard } \\
\text { error } \\
\mathrm{X}
\end{array}\right)+\left(\begin{array}{c}
\text { Stand } \\
\text { ard } \\
\text { error } \\
\mathrm{Y}
\end{array}\right)-2(\mathrm{P})}\left(\begin{array}{c}
\text { Stand. } \\
\text { ard } \\
\text { error } \\
\mathrm{X}
\end{array}\right) \quad\left(\begin{array}{c}
\text { Stand- } \\
\text { ard } \\
\text { error } \\
\mathrm{Y}
\end{array}\right)
$$

X is the estimate for one quarter and Y is the estimate for another quarter. The coefficient, P , is a measure of the correlation between the estimates $X$ and $Y$ resulting from the presence of some of the same respondents in the sample for each estimate. For consecutive year-to-year changes of quarterly estimates, the values of $P$ are 0.30 for persons (total, white, and black) and 0.35 for families (total, white, and black). The respective values for estimates of Hispanics are 0.45 and 0.55 .

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

or about 259,000.

Table F. Standard errors for unemployment rates

| Monthly base of unemployment rate (in thousands) | Monthly unemployment rate (percent) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 50 |
| 50 | 2.28 | 3.20 | 4.98 | 6.85 | 8.13 | 9.09 | 9.82 | 10.36 | 10.75 | 11.12 |
| 100 | 1.61 | 2.26 | 3.52 | 4.84 | 5.75 | 6.43 | 6.94 | 7.33 | 7.60 | 7.87 |
| 500 | . 72 | 1.01 | 1.58 | 2.16 | 2.57 | 2.88 | 3.11 | 3.28 | 3.40 | 3.52 |
| 1,000 | . 51 | 72 | 1.11 | 1.53 | 1.82 | 2.03 | 2.20 | 2.32 | 2.40 | 2.49 |
| 2,000 | . 36 | . 51 | . 79 | 1.08 | 1.29 | 1.44 | 1.55 | 1.64 | 1.70 | 1.76 |
| 4,000 | . 25 | 36 | . 56 | . 77 | . 91 | 1.02 | 1.10 | 1.16 | 1.20 | 1.24 |
| 6,000 | . 21 | . 29 | . 45 | . 62 | . 74 | . 83 | . 90 | . 95 | . 98 | 1.02 |
| 10,000 | . 16 | 23 | . 35 | . 48 | . 58 | . 64 | . 69 | . 73 | . 76 | . 79 |
| 20,000 | . 11 | . 16 | . 25 | . 34 | . 41 | . 45 | . 49 | . 52 | . 54 | . 56 |
| 60,000 | . 07 | . 09 | . 14 | . 20 | . 24 | . 26 | . 28 | . 30 | . 31 | . 32 |
| 100,000 | . 05 | 07 | . 11 | . 15 | . 18 | . 20 | . 22 | . 23 | . 24 | 25 |
| 120,000 | . 05 | . 07 | . 10 | . 14 | . 17 | . 19 | . 20 | . 21 | . 22 | 23 |
| 140,000 | . 04 | . 06 | . 09 | . 13 | . 15 | . 17 | . 19 | . 20 | . 21 | 21 |

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

| Monthly base of unemployment rate (in thousands) | Monthly unemployment rate (percent) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 2 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 50 |
| 50 | 2.53 | 3.57 | 5.60 | 7.83 | 9.47 | 10.79 | 11.91 | 12.87 | 13.71 | 15.67 |
| 100 | 1.79 | 2.52 | 3.96 | 5.53 | 6.69 | 7.63 | 8.42 | 9.10 | 9.69 | 11.08 |
| 500 | . 80 | 1.13 | 1.77 | 2.47 | 2.99 | 3.41 | 3.76 | 4.06 | 4.33 | 4.94 |
| 1,000 | . 57 | . 80 | 1.25 | 1.75 | 2.11 | 2.41 | 2.65 | 2.87 | 3.05 | 3.48 |
| 2,000 | 40 | . 56 | . 88 | 1.23 | 1.49 | 1.70 | 1.87 | 2.02 | 2.15 | 2.44 |
| 4,000 | . 28 | . 40 | . 63 | . 87 | 1.05 | 1.20 | 1.32 | 1.42 | 1.51 | 1.70 |
| 6,000 | . 23 | . 33 | . 51 | . 71 | . 86 | . 97 | 1.07 | 1.15 | 1.22 | 1.37 |
| 10,000 | . 18 | . 25 | . 39 | . 55 | . 66 | . 75 | . 82 | . 88 | . 93 | 1.03 |
| 20,000 | . 13 | . 18 | . 28 | . 38 | . 46 | . 51 | . 56 | 60 | . 62 | - |
| 60,000 | . 07 | . 10 | . 16 | . 21 | . 24 | . 27 | . 28 | - | - | - |
| 100,000 | . 06 | . 08 | . 12 | . 15 | . 17 | . 18 | - | - | - | - |
| 120,000 | . 05 | . 07 | . 11 | . 14 | . 15 | - | - | - | - | - |
| 140,000 | . 05 | . 07 | . 10 | - | - | - | - | - | - | - |

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

| Monthly base of percentages (in thousands) | Percentage of monthly level |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 or 99 | 2 or 98 | 5 or 95 | 10 or 90 | 15 or 85 | 20 or 80 | 25 or 75 | 30 or 70 | 35 or 65 | 50 |
| 50 | 2.34 | 3.29 | 5.12 | 7.05 | 8.39 | 9.40 | 10.18 | 10.77 | 11.21 | 11.75 |
| 100 | 1.65 | 2.33 | 3.62 | 4.99 | 5.94 | 6.65 | 7.20 | 7.62 | 7.93 | 8.31 |
| 500 | . 74 | 1.04 | 1.62 | 2.23 | 2.65 | 2.97 | 3.22 | 3.41 | 3.55 | 3.72 |
| 1,000 | . 52 | . 74 | 1.15 | 1.58 | 1.88 | 2.10 | 2.28 | 2.41 | 2.51 | 2.63 |
| 2,000 | . 37 | . 52 | . 81 | 1.12 | 1.33 | 1.49 | 1.61 | 1.70 | 1.77 | 1.86 |
| 4,000 | . 26 | . 37 | . 57 | . 79 | . 94 | 1.05 | 1.14 | 1.20 | 1.25 | 1.31 |
| 6,000 | . 21 | . 30 | . 47 | . 64 | . 77 | . 86 | . 93 | . 98 | 1.02 | 1.07 |
| 10,000 | . 17 | . 23 | . 36 | . 50 | . 59 | . 66 | 72 | . 76 | 79 | . 83 |
| 20,000 | . 12 | . 16 | . 26 | . 35 | . 42 | . 47 | . 51 | . 54 | . 56 | . 59 |
| 40,000 | . 08 | . 12 | . 18 | . 25 | . 30 | . 33 | . 36 | . 38 | . 40 | . 42 |
| 60,000 | . 07 | . 10 | . 15 | . 20 | . 24 | 27 | . 29 | . 31 | . 32 | . 34 |
| 80,000 | . 06 | . 08 | . 13 | 18 | . 21 | 24 | 25 | . 27 | . 28 | . 29 |
| 100,000 | . 05 | . 07 | . 11 | . 16 | . 19 | . 21 | . 23 | . 24 | . 25 | . 26 |
| 120,000 | . 05 | . 07 | . 10 | . 14 | . 17 | . 19 | . 21 | . 22 | . 23 | . 24 |
| 140,000 | . 04 | . 06 | . 10 | . 13 | . 16 | . 18 | . 19 | . 20 | . 21 | 22 |
| 160,000 | . 04 | . 06 | . 09 | . 12 | . 15 | . 17 | . 18 | . 19 | . 20 | . 21 |

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

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

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

Table J. Factors to be used with tables D, F, H, and I to compute the approximate standard errors for levels, rates, and percentages for year-to-year change of monthly estimates, quarterly averages, change in quarterly averages, yearly averages, and change in yearly averages

| Characteristic | Factor |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year-to-year change of monthly estimate | Quarterly averages | Change in quarterly averages | Yearly averages | Change in yearly averages |
| Agricultural employment: |  |  |  |  |  |
| Total or men <br> Women or teenagers (16 to 19 years) Part time | $\begin{aligned} & 1.30 \\ & 1.30 \\ & 1.40 \end{aligned}$ | 0.89 .83 .74 | $\begin{array}{r} 0.80 \\ .80 \\ .80 \end{array}$ | 0.72 .58 .46 | $\begin{array}{r} 0.70 \\ .70 \\ .70 \end{array}$ |
| Labor force data other than agricultural employment and unemployment: |  |  |  |  |  |
| Total or white | 1.30 | . 88 | . 88 | . 67 | . 70 |
| Black or teenagers (16 to 19 years) | 1.30 | . 82 | . 88 | . 57 | . 70 |
| Part time | 1.40 | . 74 | . 88 | . 46 | . 60 |
| Unemployment: |  |  |  |  |  |
| Total | 1.40 | . 76 | 88 | 50 | . 65 |
| Part time | 1.40 | . 69 | . 88 | 39 | . 54 |

Table K. Standard errors for estimates of quarterly levels, to be used with CPS earnings data
(In thousands)

| Estimated quarterly level | Characteristic |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  |  | Men |  |  |  | Women |  |
|  | Part-time workers | Total or full-time workers |  | Part-time workers | Total or full-time workers |  |  | Total, full-time, or part-time workers |  |
|  |  | Total or white | Black |  | Total | White | Black | Total or white | Black |
| 10 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 50 | 11 | 12 | 12 | 11 | 12 | 12 | 12 | 11 | 11 |
| 75 | 13 | 15 | 15 | 13 | 15 | 15 | 15 | 13 | 13 |
| 100 | 15 | 17 | 17 | 15 | 17 | 17 | 17 | 15 | 15 |
| 150 | 19 | 21 | 21 | 19 | 21 | 21 | 21 | 19 | 19 |
| 200 | 22 | 24 | 24 | 22 | 24 | 24 | 24 | 22 | 21 |
| 250 | 24 | 27 | 27 | 24 | 27 | 27 | 27 | 24 | 24 |
| 300 | 26 | 30 | 30 | 26 | 30 | 30 | 29 | 26 | 26 |
| 500 | 34 | 38 | 38 | 34 | 38 | 38 | 37 | 34 | 33 |
| 750 | 42 | 47 | 46 | 42 | 47 | 47 | 45 | 42 | 41 |
| 1,000 | 48 | 54 | 53 | 48 | 54 | 54 | 50 | 48 | 46 |
| 1,500 | 59 | 66 | 63 | 59 | 66 | 66 | 59 | 59 | 56 |
| 2,000 | 68 | 76 | 72 | 68 | 76 | 76 | 65 | 68 | 63 |
| 2,500 | 76 | 85 | 79 | 75 | 84 | 84 | 69 | 75 | 69 |
| 3,000 | 83 | 93 | 85 | 82 | 92 | 92 | 71 | 82 | 74 |
| 5,000 | 107 | 119 | 100 | 105 | 117 | 116 | 64 | 105 | 85 |
| 7,500 | 130 | 145 | 107 | 127 | 140 | 138 | 64 | 127 | 88 |
| 10,000 | 149 | 165 | 102 | 144 | 157 | 155 | - | 145 | - |
| 15,000 | 180 | 198 | 102 | 187 | 183 | 179 | - | 173 | - |
| 20,000 | 205 | 224 |  | 192 | 199 | 193 | - | 195 | - |
| 25,000 | 226 | 244 | - | 207 | 209 | 199 | - | 211 | - |
| 30,000 | 224 | 261 | - | 219 | 212 | 198 | - | 224 | - |
| 40,000 | 273 | 286 | - | 233 | 201 | 174 | - | 242 | - |
| 50,000 | 296 | 301 | - | - | 160 | 100 | - | 249 | - |
| 75,000 | 331 | 304 | - | - | 160 | - | - | - | - |
| 100,000. | 343 | 255 | - | - | - | - | - | - | - |

# Establishment Data (Tables B-1 through C-8) 

## COLLECTION

Payroll reports provide current information on wage and salary employment, hours, and earnings in nonfarm establishments, by industry and geographic location. Historical statistics are published in Employment, Hours, and Earnings, United States, and Employment, Hours, and Earnings, States and Areas, and their supplements.

## Federal-State cooperation

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

## Shuttle schedules

Form bls 790-Report on Employment, Payroll, and Hours is the name of the data collection schedule. The collection agency returns the schedule to the respondent each month so that the next month's data can be entered on the space allotted for that month. This "shuttle" procedure assures maximum comparability and accuracy of reporting, since the respondent can see the figures that have been reported for previous months.
Form bls 790 provides for entry of data on the total number of full- and part-time workers on the payrolls of nonfarm establishments and, for most industries, employment, payroll, and hours of production and related workers or nonsupervisory workers for the pay period which includes the 12th of the month.

## CONCEPTS

## Industrial classification

Establishments reporting on Form bls 790 are classified into industries on the basis of their principal product or activity determined from information on annual sales volume. Since January 1980, this information is collected on a supplement to the quarterly unemployment insurance tax reports filed by employers. For an establishment making more than one product or engaging in more than one activity, the entire employment of the establishment is included under the
industry indicated by the principal product or activity.
All data on employment, hours, and earnings for the Na tion (beginning with August 1990 data) and for States and areas (beginning with January 1990 data) are classified in accordance with the 1987 Standard Industrial Classification (SIC) Manual, Office of Management and Budget. The bls tabulates and estimates statistics which distinguish between private and public establishments, thus maintaining continuity with previously published statistics for the private and government sector.

## 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. Salaried officers of corporations are included. Government employment covers only civilian employees; military personnel are excluded. Employees of the Central Intelligence Agency and the National Security Agency are also excluded.
Persons on establishment payrolls who are on paid sick leave (when pay is received directly from the firm), on paid holiday, on paid vacation, or who work during a part of the pay period even though they are unemployed or on strike during the rest of the period are counted as employed. Not counted as employed are persons who are on layoff, on leave without pay, on strike for the entire period, or who were hired but have not yet reported during the period.

Indexes of diffusion of employment change (table B-7). These indexes measure the dispersion among industries of the change in employment over the specified time span. Beginning with August 1990 data, the overall indexes are calculated from 356 seasonally adjusted employment series (three-digit industries) covering all nonfarm payroll employment in the private sector. The manufacturing diffusion indexes are based on 139 three-digit industries.

To derive the indexes, each component industry is assigned a value of 0,50 , or 100 percent, depending on whether its employment showed a decrease, no change, or an increase, respectively, over the time span. The average value (mean) is then calculated, and this percent is the diffusion index number.

The reference point for diffusion analysis is 50 percent, the value which indicates that the same number of component
industries had increased as had decreased. Index numbers above 50 show that more industries had increasing employment, and values below 50 indicate that more had decreasing employment. The margin between the percent that increased and the percent that decreased is equal to the difference between the index and its complement, i.e., 100 minus the index. For example, an index of 65 percent means that 30 percent more industries had increasing employment than had decreasing employment $(65-(100-65)=30)$. However, for dispersion analysis, the distance of the index number from the 50 -percent reference point is the most significant observation.

Although diffusion indexes are commonly interpreted as showing the percent of components that increased over the time span, it should be remembered that the index reflects half of the unchanged components as well. (This is the effect of assigning a value of 50 percent to the unchanged components when computing the index.)

## Industry hours and earnings

Average hours and earnings data are derived from reports of payrolls and hours for production and related workers in manufacturing and mining, construction workers in construction, and nonsupervisory employees in private serviceproducing industries.
Production and related workers include working supervisors and all nonsupervisory workers (including group leaders and trainees) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping, trucking, hauling, maintenance, repair, janitorial, guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with the above production operations.

Construction workers include the following employees in the construction division: Working supervisors, qualified craft workers, mechanics, apprentices, helpers, laborers, etc., engaged in new work, alterations, demolition, repair, maintenance, etc., whether working at the site of construction or working in shops or yards at jobs (such as precutting and preassembling) ordinarily performed by members of the construction trades.
Nonsupervisory employees include employees (not above the working supervisory level) such as office and clerical workers, repairers, salespersons, operators, drivers, physicians, lawyers, accountants, nurses, social workers, research aides, teachers, drafters, photographers, beauticians, musicians, restaurant workers, custodial workers, attendants, line installers and repairers, laborers, janitors, guards, and other employees at similar occupational levels whose services are closely associated with those of the employees listed.
Payroll covers the payroll for full- and part-time production, construction, or nonsupervisory workers who received pay for any part of the pay period which includes the 12th of the month. The payroll is reported before deductions of
any kind, e.g., for old-age and unemployment insurance, Group insurance, withholding tax, bonds, or union dues; also included is pay for overtime, holidays, vacation, 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, 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 included 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.

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.

Indexes of aggregate weekly hours. The indexes of aggregate weekly hours are prepared by dividing the current month's aggregate by the average of the 12 monthly figures for 1982. For basic industries, the hours aggregates are the product of average weekly hours and production worker or nonsupervisory worker employment. At all higher levels of industry aggregation, hours aggregates are the sum of the component aggregates.

Average overtime hours. The overtime hours represent that portion of the average weekly hours which exceeded regular hours and for which overtime premiums were paid. If an employee were to work on a paid holiday at regular rates, receiving as total compensation his or her holiday pay plus straight-time pay for hours worked that day, no overtime hours would be reported.
Since overtime hours are premium hours by definition, weekly hours and overtime hours do not necessarily move in the same direction from month to month. Such factors as work stoppages, absenteeism, and labor turnover may not have the same influence on overtime hours as on average hours. 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.

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

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

Average hourly earnings, including lump-sum wage payments. These series are compiled only for aircraft (SIC 3721 ) and guided missiles and space vehicles (SIC 3761) manufacturing. The same concepts and estimation methods apply to these series as apply to the average hourly earnings series described above; the one difference between the series is definitional. The payroll data used to calculate this series include lump-sum payments made to production workers in lieu of general wage rate increases; such payments are excluded from the definition of gross payrolls used to calculate the other average hourly earnings series.

For each sample establishment in SIC 3721 and SIC 3761 covered by a lump-sum agreement, the reported payroll data are adjusted to include a prorated portion of the lump-sum payment. Such payments are generally made once a year and cover the following 12 -month period. In order to spread the payment across this time period, a prorated portion of the payment is added to the payroll each month. This prorated portion is adjusted by an exit rate to reduce the lump-sum amount to account for persons who received the payment but left before the payment allocation period expired.

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. No adjustments are made for other premium payment provisions, such as holiday work, late-shift work, and overtime rates other than time and one-half.

Railroad hours and earnings. The figures for Class I railroads (excluding switching and terminal companies) are based on
monthly data summarized in the m-300 report of the Interstate Commerce Commission and relate to all employees except executives, officials, and staff assistants (ICC group I) who received pay during the month. 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. Average weekly earnings are derived by multiplying average weekly hours by average hourly earnings.

Average weekly earnings. These estimates are derived by multiplying average weekly hours estimates by average hourly earnings estimates. Therefore, weekly earnings are affected not only by changes in average hourly earnings but also by changes in the length of the workweek. Monthly variations in such factors as the 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 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.

Real earnings, or earnings in constant dollars, are calculated from the earnings averages for the current month using a deflator derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-w).

## ESTIMATING METHODS

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

## The "link relative" technique

From a sample composed of establishments reporting for both the previous and current months, the ratio of currentmonth 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, bias correction factors are applied to most employment estimates each month. The size of the bias correction factors is determined from past benchmark comparisons. Beginning with data for April 1983, these factors are modified by changes in the
sample link relatives for the most recent quarter. Other features of the general procedures are described in table $L$.

## 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 for aggregation into broader industry groupings. Accordingly, the basic estimating cell for an employment, hours, or earnings series, as the term is used in the summary of computational methods in table L, 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 benchmarks (comprehensive counts of employment) for the various nonfarm industries, and appropriate adjustments are made as indicated. The industry estimates are currently projected from March 1989 levels. Benchmark adjustments are made annually.
The primary sources of benchmark information are

Table L. Summary of methods for computing industry statistics on employment, hours, and earnings

| Employment, hours, and earnings | Basic estimating cell (industry, region, size, or region/size cell) | Aggregate industry level (division and, where stratified, industry) |
| :---: | :---: | :---: |
|  | Monthly data |  |
| All employees | All-employee estimate for previous month multiplied by ratio of all employees in current month to all employees in previous month, for sample establishments which reported for both months. ${ }^{1}$ | 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. |
| 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. |
| 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. |
| Average weekly earnings | Product of average weekly hours and average hourly earnings. | Product of average weekly hours and average hourly earnings. |
|  | 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. |
| 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. |
| 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. |
| Average weekly earnings | Product of average weekly hours and average hourly earnings. | Product of average weekly hours and average hourly earnings. |

1 The estimates are computed by multiplying the above product by bias adiustment factors, which compensate for the underrepresentation of newly formed enterprises and other sources of bias 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 compensate 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.
agencies from reports of establishments covered under State unemployment insurance laws. These tabulations cover about 98 percent of employees on nonfarm payrolls in the United States. Benchmark data for the residual are obtained from the records of the Social Security Administration, the Interstate Commerce Commission, and a number of other agencies in private industry or government.

The estimates for the benchmark month are compared with new benchmark levels, industry by industry. If revisions are necessary, the monthly series of estimates between benchmark periods are adjusted between the new benchmark and the preceding one, and the new benchmark for each industry is then carried forward progressively to the current month by use of the sample trends. Thus, under this procedure, the benchmark is used to establish the level of employment; the sample is used to measure the month-to-month changes in the level. A comparison of the actual amounts of revisions made at the time of the March 1988 benchmark adjustment is shown in table M .

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

## THE SAMPLE

## Design

The sampling plan used in the establishment survey 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 larger percent of total employment is

Table M. Comparison of nonfarm employment benchmarks and estimates for March 1989

| industry | Benchmark | 1987 SIC. based estimate | Difference |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Level | Percent |
| Total | 107,026 | 107,073 | -47 | (1) |
| Mining | 678 | 703 | -25 | -3.7 |
| Construction | 4,741 | 4,813 | -72 | -1.5 |
| Manufacturing . | 19,396 | 19,585 | -189 | -1.0 |
| Transportation and public utilities | 5,549 | 5,646 | -97 | -1.7 |
| Wholesale trade | 6,195 | 6,145 | 50 | . 8 |
| Retail trade | 19,115 | 19,023 | 92 | . 5 |
| Finance, insurance, and real estate | 6,639 | 6,714 | -75 | -1.1 |
| Services | 26,702 | 26,479 | 223 | . 8 |
| Government | 18,016 | 17,965 | 46 | . 3 |

[^20]included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments with only a few chosen from among the smaller establishments or none at all if the concentration of employment is great enough. On the other hand, in an industry in which a large proportion of total employment is in small establishments, the sample design calls for inclusion of all large establishments and also for a substantial number of the small ones. Many industries in the trade and services divisions fall into this category. To keep the sample to a size which can be handled by available resources, it is necessary to design samples for these industries with a smaller proportion of universe employment than is the case for most manufacturing industries. Since individual establishments in these nonmanufacturing divisions generally show less fluctuation from regular cyclical or seasonal patterns than do establishments in manufacturing industries, these smaller samples (in terms of employment) generally produce reliable estimates.
In the context of the BLS establishment survey program, with its emphasis on producing timely data at minimum cost, a sample must be obtained which will provide coverage of a sufficiently large segment of the universe to provide reasonably reliable estimates that can be published promptly and regularly. The present sample meets these specifications for most industries. With its use, the BLS is able to produce preliminary estimates each month for many industries and for many geographic levels within a few weeks after the reference period, and, at a somewhat late 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 N shows the latest benchmarks and 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.

## Reliability

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 accumulate over several months. To remove this accumulated error, the estimates are adjusted annually to new benchmarks. In addition to taking account of sampling and

Table N. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1989

| Industry | Benchmarks (thousands) | Sample coverage ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Number of establish. ments | Employees |  |
|  |  |  | Number (thousands) | Percent of benchmarks |
| Total | 107,026 | 282,003 | 39,158 | 37 |
| Mining | 678 | 3,352 | 261 | 38 |
| Construction | 4,741 | 27,194 | 948 | 20 |
| Manufacturing | 19,396 | 51,253 | 9,377 | 48 |
| Transportation and public utilities | 5,549 | 214,673 | 22,149 | 39 |
| Wholesale trade | 6,195 | 25,311 | 1,120 | 18 |
| Retail trade | 19,115 | 55,477 | 4,136 | 22 |
| Finance, insurance, and real estate | 6,639 | 21,001 | 2,139 | 32 |
| Services | 26,702 | 63,877 | 6,184 | 23 |
| Government: Federal | 2,976 | $\left.{ }^{3}\right)$ | 2,976 | 100 |
| State | 4,257 | 4,437 | 3,207 | 75 |
| Local | 10,778 | 15,428 | 6,661 | 62 |

${ }^{1}$ Counts reflect reports used in final estimates. Since not all establishments report payroll and hours information, hours and earnings estimates are based on a smaller sample than employment estimates.
2 The Interstate Commerce Commission provides a complete count of employment for Class I railroads. A small sample is used to estimate hours and earnings data.
${ }^{3}$ Total Federal employment counts by agency for use in national estimates are provided to BLS by the Office of Personnel Management. Detailed industry estimates for the Executive Branch, as well as State and area estimates of Federal employment, are based on a sample of 5,000 reports covering about 56 percent of employment in Federal establishments.

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

| Industry | Average benchmark revision in employment estimates ${ }^{1}$ | Relative error ${ }^{2}$ |  |
| :---: | :---: | :---: | :---: |
|  |  | Average weekly hours | Average hourly earnings |
| Total | 0.2 | - | - |
| Total private | 2 | 0.1 | 0.2 |
| Mining | 2.6 | 1.0 | 1.3 |
| Construction | 1.4 | 2 | . 5 |
| Manufacturing | . 8 | . 1 | . 2 |
| Durable goods | . 6 | . 1 | . 3 |
| Nondurable goods | . 9 | . 1 | . 2 |
| Transportation and public utilities. | . 7 | . 7 | . 6 |
| Wholesale trade . . . . . . . . . . . . | 1.1 | . 2 | . 4 |
| Retail trade | . 5 | . 2 | . 4 |
| Finance, insurance, and real estate | . 5 | . 2 | . 4 |
| Services | . 4 | . 4 | . 6 |
| Government ${ }^{3}$ | 4 | - | - |

1 The average percent revision in employment for the 1985-89 benchmarks.
2 Relative errors relate to 1982 data.
${ }^{3}$ Data for government are based on a total count for Federal Government provided by the Office of Personnel Management and a sample of State and local government reports.
response errors, the benchmark revision adjusts the estimates for changes in the industrial classification of individual establishments (resulting from changes in their product which are not reflected in the levels of estimates until the data are adjusted to new benchmarks). In fact, at the more detailed industry levels, particularly within manufacturing, changes
in classification are the major cause of benchmark adjustments. Another cause of differences arises from improvements in the quality of the benchmark data. Table $O$ presents the average percent revisions of the five most recent benchmarks for major industry divisions. Detailed descriptions of individual benchmark revisions are available from the Bureau upon request.

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

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


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

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

For the two most recent months, estimates of employment, hours, and earnings are preliminary and are so footnoted in the tables. These figures are based on less than the total sample and are revised when all the reports in the sample have been received. Table Q presents root-mean-square errors of

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

| Size of employment estimate | Root-meansquare error of employment estimates ${ }^{1}$ | Relative error ${ }^{2}$ (in percent) |  |
| :---: | :---: | :---: | :---: |
|  |  | Average weekly hours | Average hourly earnings |
| 50,000 | 2,100 | 2.2 | 4.0 |
| 100,000 | 3,900 | 1.3 | 2.3 |
| 200,000 | 5,600 | 1.1 | 2.0 |
| 500,000 | 14,000 | . 9 | 1.6 |
| 1,000,000 | 15,000 | . 8 | 1.2 |
| 2,000,000 | 26,000 | . 5 | . 9 |

${ }^{1}$ Assuming 12 -month intervals between benchmark revisions.
${ }^{2}$ Relative errors relate to 1982 data.
the amounts of revisions that may be expected between the preliminary and final levels of employment and preliminary and final month-to-month changes. Revisions of preliminary hours and earnings estimates are normally not greater than 0.1 of an hour for weekly hours and 1 cent for hourly earnings.

## STATISTICS FOR STATES AND AREAS

State and area employment, hours, and earnings data are collected and prepared by State agencies in cooperation with BLS. The area statistics relate to metropolitan areas. Defini-
tions 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.

Table Q. Errors of preliminary employment estimates

| Industry | Root-mean-square error of- |  | Industry | Root-mean-square error of- |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Monthly level | Month-to-month change |  | Monthly level | Month-to-month change |
| Total | 76,100 | 75,200 | Nondurable goods-Continued |  |  |
|  |  |  | Printing and publishing ... | 2,100 | 2,000 |
| Total private | 59,700 | 57,100 | Chemicals and allied products | 2,600 | 2,800 |
|  |  |  | Petroleum and coal products | 1,200 | 1,200 |
| Goods-producing industries | 21,700 | 21,100 | Rubber and misc. plastics products | 1,600 | 1,600 |
| Mining | 3,700 | 3,400 | Leather and leather products | 1,400 | 1,300 |
| Oil and gas extraction | 3,100 | 2,800 |  |  |  |
|  |  |  | Service-producing industries | 71,200 | 69,300 |
| Construction | 13,800 | 14,600 |  |  |  |
| General building contractors. | 5,200 | 5,400 | Transportation and public utilities | 14.500 | 12,900 |
|  |  |  | Transportation . . . . . . . . . . . | 12,600 | 10,500 |
| Manufacturing | 16,700 | 17,700 | Communications and public utilities | 5,500 | 4,900 |
| Durable goods. | 12,600 | 11,600 | Wholesale trade | 7,800 | 7,100 |
| Lumber and wood products | 2,100 | 1,900 | Durable goods. | 5,600 | 4,900 |
| Furniture and fixtures | 1,600 | 1,600 | Nondurable goods | 4,900 | 4,300 |
| Stone, clay, and glass products . | 1,500 | 1,500 |  |  |  |
| Primary metal industries. . . . . . . | 4,000 | 3,800 | Retail trade | 35,200 | 30,800 |
| Blast furnaces and basic |  |  | General merchandise stores | 22,300 | 19,800 |
| steel products. . | 3,000 | 2,700 | Food stores . . . . . | 7,000 | 6,100 |
| Fabricated metal products. | 2,200 | 2,100 | Automotive dealers and |  |  |
| Industrial machinery |  |  | service stations...... | 4,000 | 4,900 |
| and equipment.... | 5,600 | 6,600 | Eating and drinking places | 8,800 | 7,700 |
| Electronic and other electrical equipment | 4,200 | 4,100 | Finance, insurance, and real estate | 8,000 | 6,700 |
| Transportation equipment .... | 7,200 | 6,700 | Finance . . . . . . . . . . . . . . . . . . | 4,000 | 3,500 |
| Motor vehicles and equipment. | 6,000 | 6,100 | Insurance | 3,600 | 3,000 |
| Instruments and related products | 2,000 | 2,100 | Real estate. | 4,300 | 3,800 |
| Miscellaneous manufacturing. . . | 1,800 | 1,600 |  |  |  |
|  |  |  | Services. | 31,000 | 32,100 |
| Nondurable goods . . . . . . . . . . . | 8,300 | 8,200 | Business services | 11,000 | 10,400 |
| Food and kindred products. | 5,200 | 4,900 | Health services | 8,500 | 7,800 |
| Tobacco products | 1,400 | 1,300 |  |  |  |
| Textile mill products | 1,800 | 1,600 | Government | 51,900 | 45,800 |
| Apparel and other textile |  |  | Federal | 16,100 | 11,600 |
| products. . . . . . . . . . . | 4,300 | 4,000 | State | 20,800 | 16,900 |
| Paper and allied products | 1,500 | 1,400 | Local | 35,600 | 36,200 |

[^21]
# Productivity Data (Tables C-9 through C-11) 

## COLLECTION

Productivity data are compiled by the Bureau of Labor Statistics from establishment and household survey labor input data and from measures of compensation and output supplied by the U.S. Department of Commerce and the Federal Reserve Board.

## CONCEPTS

Hours of wage and salary workers in nonagricultural establishments (table C-9) refer to hours paid for all employees-production workers, nonsupervisory workers, and salaried workers. For productivity and cost measures (tables C-10, 11), hours of all persons include hours of employees, proprietors, and unpaid family workers. Labor input is measured by hours at the work site.

Output is the constant-dollar market value of final goods and services produced in a given period. Indexes of output per hour of all persons (productivity) measure changes in the volume of goods and services produced per hour at work.

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

Real compensation per hour is compensation per hour adjusted by 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, capital consump-
tion allowances, interest, rental income of persons, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from the current-dollar gross product originating in the sector 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 and capital consumption adjustments per unit of output.

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

## NOTES ON THE DATA

For the business sector and the nonfarm business sector, these indexes relate to the gross domestic product less general government, households and institutions, owner-occupied housing, and the statistical discrepancy. For the nonfinancial corporate sector, the indexes refer to the gross domestic product of nonfinancial corporate business. All measures are seasonally adjusted.

Manufacturing output data are supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly measures have been adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of -Economic Analysis.

Compensation and hours data are from the Bureau of Economic Analysis and the Bureau of Labor Statistics. Historical statistics for most productivity measures appear in Trends in Multifactor Productivity, 1948-81, BLS Bulletin 2178. Additional information may be obtained from the Office of Productivity and Technology (202-523-9261).

# State and Area Labor Force Data (D 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 Job Training and Partnership Act, the Economic Dislocation and Worker Adjustment Assistance Act, and the Urban Development Action Grant program.

Annual average data for the States and areas shown in table

D are published in Employment and Earnings (usually the May issue). For regions, States, selected metropolitan areas, and central cities, annual average data classified by selected demographic, social, and economic characteristics are published in the BLS bulletin, Geographic Profile of Employment and Unemployment.

Labor force 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 Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The report "Unemployment in States and Local Areas" is published monthly through GPO and is available in microfiche form only, on a subscription basis.

## ESTIMATING METHODS

Monthly labor force, employment, and unemployment estimates are prepared for the 50 States, the District of Columbia, and over 2,600 labor market areas. The estimation methods are described below for States (and the District of Columbia) and for sub-State areas. A more detailed description of the estimation procedure is contained in the BLS document, "Manual for Developing Local Area Unemployment Statistics."

## Estimates for States

Current monthly estimates. The civilian labor force and unemployment estimates for the 11 largest States-California, Florida, Illinois, Massachusetts, Michigan, New Jersey, New York, North Carolina, Ohio, Pennsylvania, and Texas-are sufficiently reliable to be taken directly from the Current Population Survey (CPS) on a monthly basis. These are termed "direct-use States." For a description of the CPS concepts, see "Household Data," above.

For the 39 smaller States and the District of Columbia, which do not use the CPS directly each month, regression models (sets of equations) are used to develop employment and unemployment estimates. These, then, are the "non-direct-use" States. The regression techniques are based on historical and current relationships found within each State's economy as reflected in the different sources of data that are available for each State-the CPS, the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. When the estimation procedures were introduced in 1989, over 10 years of data were used to develop the equations for each State. While all the State models have important variables in common, they differ somewhat from one another so as to better reflect individual State characteristics.
Two models-one for employment and one for the unemployment rate-are used for each State. The unemployment rate, rather than the unemployment level, is modeled, primarily because the rate is usually more meaningful for economic analysis.
The employment models use the CES estimates of nonfarm wage and salary jobs and also include data for employed persons not covered or only partially covered by the CES survey. Typically, these are agricultural workers, the selfemployed, unpaid family workers, and private household workers.

The unemployment rate models also include different types of data. Data for UI claimants (without earnings due to employment) are used to represent most of the experienced unemployed. The models also include an employment-topopulation ratio which reflects both the business cycle and the experienced unemployed not covered by the UI claims data. New entrants and reentrants into the labor force are also reflected in the models. For some States, the models include variables which reflect seasonal factors not reflected in the other data used, such as the large increase in the labor force at the end of the school year.

In both the employment and unemployment rate models,
an important feature is the use of a technique that allows the equations to adjust automatically to structural changes that occur. The models are termed "variable coefficient models" because they include a built-in tuning mechanism, known as the Kalman Filter, which revises a model's coefficients when the new data that become available each month indicate that changes in the data relationships have taken place. Once the estimates are developed from the models, the unemployment level and labor force estimates are calculated.

Benchmark correction procedures. Once each year, monthly estimates for the 39 non-direct-use States and the District of Columbia are adjusted, or benchmarked, by bLS to the annual average CPS estimates. The benchmarking technique employs a procedure (called the Denton method) which adjusts the annual average of the models to equal the CPS annual average, while preserving, as much as possible, the original monthly seasonal pattern of the model estimates.

In the 11 direct-use States, no benchmark correction is required, as the average of the 12 monthly State CPS estimates will equal the CPS annual averages.

## Estimates for sub-State areas

Monthly labor force and employment estimates for two large sub-State areas-New York City and the Los AngelesLong Beach metropolitan area-are obtained directly from the CPS. Estimates for all other sub-State areas, more than 2,600 labor market areas (LMA's), are prepared through indirect estimation techniques, described below.

Preliminary estimate-employment. The total civilian employment estimates are based on CeS data. These "place-of-work" estimates must be adjusted to refer to place-ofresidence as used in the CPS. Factors for adjusting from place-of-work to place-of-residence have been developed for several categories of employment on the basis of employment relationships at the time of the 1980 decennial census. These factors are applied to the CES estimates for the current period to obtain adjusted employment estimates, to which are added estimates for employment not represented in the CESagriculture, nonagricultural self-employed and unpaid family workers, and private household workers.

Preliminary estimate-unemployment. In the current month, the estimate of unemployment is an aggregate of the estimates for each of three 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 entering the civilian labor force for the first time or reentering after a period of separation.

Sub-State adjustment for additivity. Estimates of employment and unemployment are prepared for the State and LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment must be applied to all sub-State LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment.

Benchmark correction. At the end of each year, sub-State estimates are revised. The revisions incorporate any changes in the inputs, such as revisions in the CES-based employment figures, corrections in claims counts, and updated historical
relationships. The corrected estimates are then readjusted to add to the revised (benchmarked) State estimates of employment and unemployment.

## Seasonal Adjustment

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

Since January 1980, national labor force data have been seasonally adjusted with a procedure called X-11 ARIMA (Auto-Regressive Integrated Moving Average), which was developed at Statistics Canada as an extension of the standard X-11 method. A detailed description of the procedure appears in The X-11 arima Seasonal Adjustment Method by Estela Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983.

At the beginning of each calendar year, projected seasonal adjustment factors are calculated for use during the JanuaryJune period. In July of each year, BLS calculates and publishes in Employment and Earnings projected seasonal adjustment factors for use in the second half, based on the experience through June. Revisions of historical data for the most recent 5 years are made only at the beginning of each calendar year. However, as a result of the revisions to the estimates for 1970-81 based on 1980 census population counts, revisions to seasonally adjusted series in early 1982 were carried back to 1970 .

All 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 com-ponents-agricultural employment, nonagricultural employment, and unemployment-data for four sex-age groups (men and women under and over 20 years of age)
are separately adjusted for seasonal variation and are then added to derive seasonally adjusted total figures. The seasonally adjusted figure for the labor force is a sum of eight seasonally adjusted civilian employment components, plus the resident Armed Forces total (not adjusted for seasonality), and four seasonally adjusted unemployment components; the total for unemployment is the sum of the four unemployment components; and the overall unemployment rate is derived by dividing the resulting estimate of total unemployment by the estimate of the labor force. Because of the independent seasonal adjustment of various series, components will not necessarily add to totals.

Revised seasonally adjusted data for selected labor force series based on the experience through December, new seasonal adjustment factors to be used to calculate the civilian unemployment rate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure are published in each January issue of Employment and Earnings. Revised seasonally adjusted data covering the revision period for a broader range of labor force series are published in the February issue of this publication.

Since the early 1980's, the BLS has also used the X-11 ARIMA procedure to seasonally adjust establishment-based employment, hours, and earnings data. The X-11 ARIMA program has been run once each year after benchmarking and seasonal adjustment factors have been projected and published for 12 months ahead (April-March). Beginning in June 1989, with the introduction of the March 1988 benchmarks, the Bureau introduced a modification to this procedure to parallel that used in seasonally adjusting household survey data. Projected seasonal adjustment factors are calculated and published twice a year. Revisions of historical data will continue to be made once a year, coincident with benchmark revisions.

All series are seasonally adjusted using the multiplicative models under X-11 arima. 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 average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing average weekly earnings, seasonally adjusted, by the seasonally adjusted Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W), and
multiplying by 100 . Indexes of aggregate weekly hours, seasonally adjusted, are obtained by multiplying average weekly hours, seasonally adjusted, by production or nonsupervisory workers, seasonally adjusted, and dividing by the 1982 annual average base. For total private, total goods-producing, total private service-producing, and major industry divisions, 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 1982 annual average base.

Seasonally adjusted data are not published for a number of series characterized by small seasonal components relative to their trend-cycle and/or irregular components. These failed or unsatisfactory seasonally adjusted series, however, are used in the aggregation to broader level seasonally adjusted series.
Seasonal adjustment factors for Federal Government employment are derived from unadjusted data which include Christmas temporary workers employed by the Postal Service. The number of temporary census workers for the
decennial census, however, are removed prior to the calculation of seasonal adjustment factors.

BLS has developed an extension of X-11 ARIMA to allow it to adjust more adequately for the effects of the presence or absence of religious holidays in the April survey reference period and of Labor Day in the September reference period. This extension was applied for the first time at the end of 1989 to three persons-at-work labor force series which tested as having significant and well-defined effects in their April data associated with the timing of Easter. This extension was also used for the seasonal adjustment of many of the establish-ment-based series on average weekly hours and manufacturing overtime hours, starting with the computation of the projected factors for the period beginning in April 1990.

Revised seasonally adjusted establishment-based series based on the experience through May 1990, new seasonal adjustment factors for August 1990-April 1991, and a description of the current seasonal adjustment procedure appear in the September 1990 issue of Employment and Earnings.

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[^0]:    The September 1990 iscte will inifoluce tharch 1989 menchmath:
    : A historical buldetin in lorthoming

[^1]:    * Patricia M. Getz is a supervisory economist in the Division of Monthly Industry Employment Statistics, Bureau of Labor Statistics.
    ${ }^{1}$ As defined in the 1987 Standard Industrial Classification Manual, issued by the Executive Office of the President, Office of Management and Budget.

[^2]:    ${ }^{2}$ All ratios are based on first quarter 1988 universe employment data. For additional information, see Employment Data Under the NewStandard Industrial Classification, First Quarter 1988, Report 772, October 1989.

[^3]:    ${ }^{3}$ Employees of the Central Intelligence Agency, the National Security Agency, and those of the Department of Defense paid from nonappropriated funds are not included in the OPM summaries of these series and thus are not counted.
    ${ }^{4}$ A detailed description of the procedure appears in The X-11 ARIMA Seasonal Adjustment Method by Estella Bee Dagum, Statistics Canada Catalogue No. 12-564E, January 1983.
    ${ }^{5}$ The series so affected are identified in tables 9 through 14.

[^4]:    ${ }^{6}$ A more detailed description of this adjustment appears in the January 1990 issue of Employment and Earnings.

[^5]:    Employed persons with a job but not at work are distributed according

[^6]:    ' Data not shown where base is less than $\mathbf{7 5 , 0 0 0}$.

[^7]:    ${ }^{1}$ Includes wage and salary workers only.

[^8]:    $=$ preliminary

[^9]:    See footnotes at end of table.

[^10]:    See footnotes at end of table.

[^11]:    See footnotes at end of table.

[^12]:    See footnotes at end of table.

[^13]:    Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate

[^14]:    Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
    ${ }^{2}$ See table C-2a for average hourly earnings in aircraft (SIC 3721) and guided missiles and space vehicles (SIC 3761) manufacturing.
    ${ }^{3}$ Data relate to line-haul railroads with operating revenues of $\$ 50,000,000$ or more.

[^15]:    ${ }^{1}$ Data relate to production workers in mining and manufacturing; construction workers in construction; and nonsupervisory workers in transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services.
    ${ }_{p}=$ preliminary.

[^16]:    Total hours paid for 1 week in the month, seasonally adjusted, multiplied by 52. These data reflect September 1990 revisions to the BLS Establishment data.
    p $=$ preliminary.
    =revised.

[^17]:    1 Data are obtained directly from the Current Population Survey. See the Explanatory Notes for State and Area Labor Force Data. $P=$ preliminar
    NOTE: Data refer to place of residence. Estimates for 1989 have been benchrnarked to 1989 Current Population Survey annual averages. Except in the

[^18]:    1 Beginning in May 1956, these areas were chosen to provide coverage in each State and the District of Columbia.
    ${ }^{2}$ Three sample areas were added in 1960 to represent Alaska and Hawaii after statehood.

[^19]:    1 When determining the standard error of an estimate for a group which is a subset of the age, sex, or race groups listed, use the standard error for the next larger group, e.g., when determining the standard error
    of the estimated number of employed persons age 20 to 54 years, use the column for total employed.

[^20]:    1 Less than 0.05 percent

[^21]:    NOTE: Data are based on differences from December 1984 through December 1989.

