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U.S. Department of Labor

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In this issue: Establishment data adjustment to reflect new benchmarks

Revised 1997 annual averages for national establishment data


## U.S. DEPARTMENT OF LABOR <br> Alexis M. Herman, Secretary

## BUREAU OF LABOR STATISTICS

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## June 1998 <br> Vol. 45 No. 6

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## Establishment data

National annual averages:
Jan.

March. June

March. Junc

June

March
May
May
al averages

## Employment and Earnings

Editors: Gloria Peterson Green, Eugene H. Becker

## 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 1997 benchmarks (comprehensive counts of employment) and recomputed seasonal adjustment factors. Unadjusted series have been revised back to April 1996. In addition, the seasonal adjustment process for the hours and earnings series has been refined to correct for distortions associated with the varying length of payroll periods across months
All seasonally adjusted employment series for all employees and women have been revised back to January 1993. Seasonally adjusted series for employment, hours, indexes of aggregate hours, and earnings of production or nonsupervisory workers have been revised back to January 1989 to incorporate the new methodology.
The article beginning on page 3 discusses the effects of the revisions and provides new seasonal adjustment factors to be used to calculate establishment-based estimates for March-October 1998. Revised current data appear in the "B" tables. Historical data for all national establishment data series are available on the Internet(http://stats.bls.gov/ ceshome.htm).

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# Employment and Unemployment Developments, May 1998 

Nonfarm payroll employment rose in May, and the unemployment rate remained at 4.3 percent. Nonfarm payroll employment increased by 296,000 with all the growth occurring in the service-producing sector. The number of manufacturing jobs fell, and construction employment edged down.

## Unemployment

The number of unemployed persons, 5.9 million in May, was little changed over the month, and the unemployment rate held at 4.3 percent. Both measures had fallen sharply in the previous month. Among the major demographic groups, the rates for adult men ( 3.5 percent), adult women ( 3.9 percent), teenagers ( 14.2 percent), whites ( 3.7 percent), blacks ( 9.0 percent), and Hispanics ( 6.8 percent) were essentially unchanged in May. (See tables A-3 and A-4.)

The unemployment rates for persons 25 years and older with less than a high school diploma ( 6.7 percent), high school graduates with no college experience ( 3.7 percent), and college graduates ( 1.6 percent) showed essentially no movement over the month. The jobless rate for persons with some college experience but no bachelor's degree rose by 0.4 percentage point to 3.1 percent in May. (See table A-5.)

## Total employment and the labor force

Total employment was essentially unchanged at 131.5 million. The employment-population ratio-the proportion of the population age 16 and older with jobs-was 64.2 percent. It has remained at or near this record level since January. (See table A-3.)

About 8.1 million persons (not seasonally adjusted) held more than one job in May. These multiple jobholders comprised 6.2 percent of the total employed. (See table A-37.)

The civilian labor force, 137.4 million, was about unchanged in May, after seasonal adjustment. The labor force participation rate held at 67.0 percent. (See table A-3.)

## Persons not in the labor force

About 1.2 million persons (not seasonally adjusted) were marginally attached to the labor force in May. These were people who wanted and were available for work and had looked for a job sometime in the prior 12 months but were not counted as unemployed because they had not searched for work in the 4 weeks preceding the survey.

The number of discouraged workers-a subset of the marginally attached who were not currently looking for work specifically because they believed no jobs were available for them-totaled 268,000 in May, down from 338,000 a year earlier. (See table A-36.)

## Industry payroll employment

Nonfarm payroll employment rose by 296,000 in May, after seasonal adjustment, due to a large increase in the ser-vice-producing sector. Employment in the goods-producing sector declined, with widespread losses in manufacturing and a small decline in construction. (See table B-3.)

Manufacturing employment fell by 26,000 in May, after 3 months of little change. The largest decrease was in the apparel industry, which continued its long-term decline with a loss of 9,000 jobs. Most other industries experienced small employment losses over the month. Employment in both electronic components and industrial machinery declined for the second month in a row; these industries had added jobs steadily during 1997. In . ontrast, the furniture and fixtures industry continued its recunt growth, adding 3,000 jobs in May, and employment in chemicals and allied products also rose by 3,000 .

Construction employment edged down by 9,000 in May, after seasonal adjustment. This follows strong growth $(204,000)$ from October to April.

Within the service-producing sector, the services industry added 151,000 jobs in May. This growth followed 3 months of gains that were well below the 1997 average of 142,000 . Business services accounted for half of the May increase, with help supply services and computer services adding 26,000 and 17,000 jobs, respectively. This was the first gain for the help supply industry since February. Engineering and management services continued to grow, adding 25,000 jobs, with a sharp gain ( 16,000 ) in management and public relations. Employment in walth services increased by 17,000 in May, after weak growth in the prior month.

Employment in retail trade grew by 89,000 in May, the second large increase in a row. Gains were widespread throughout the industry, with sizable growth occurring within eating and drinking places $(33,000)$, department stores (28,000), and miscellaneous retail establishments ( 18,000 ). In contrast, wholesale tr: $\because \cdot=$ gained 9,000 jobs, compared with the average increase of 15,000 in the prior 12 months.

The 3,000 employment gain in durable goods distribution was the smallest in nearly 5 years.

Transportation added 17,000 jobs in May, following a much smaller increase $(3,000)$ in April. Employment in local and interurban passenger transit grew by 7,000 , offsetting a decline of similar magnitude in the previous month. Communications added 6,000 jobs in May, reflecting continuing growth in the telephone industry.

Finance, insurance, and real estate added 20,000 jobs over the month, mostly in finance. Within finance, mortgage brokerages had the largest job gain $(5,000)$ and has grown by 13 percent over the past 12 months. Security brokerages also continued steady growth, adding 3,000 jobs over the month. Insurance employment rose by 6,000 in May. Real estate employment edged down over the month, after adding 31,000 jobs from December through April.

Government payrolls rose by 41,000 in May, mainly due to an increase in local education $(28,000)$ that was well above the industry's average for the past year. State government also had stronger-than-usual growth in May, spread about equally between the education and noneducation components. Declines continued in Federal Government employment.

## Weekly hours

The average workweek for production or nonsupervisory workers on private nonfarm payrolls increased by 0.2 hour in May to 34.7 hours, seasonally adjusted. The manufacturing workweek rose by 0.3 hour to 41.7 hours, but is a half hour below its peak level reached last December. Factory overtime edged up by 0.1 hour in May to 4.6 hours; however, overtime hours have trended down in recent months. (See table B-8.)
The index of aggregate weekly hours of production or nonsupervisory workers on private nonfarm payrolls increased by 0.7 percent to $144.9(1982=100)$, seasonally adjusted. The manufacturing index rose by 0.5 percent to 109.1 . (See table B-9.)

## Hourly and weekly earnings

Average hourly earnings of production or nonsupervisory workers on private nonfarm payrolls increased 4 cents in May to $\$ 12.73$, seasonally adjusted. Average weekly earnings increased by 0.9 percent to $\$ 441.73$. Over the year, average hourly and weekly earnings both rose by 4.3 percent. (See table B-11.)

| Scheduled Release Dates |  |  |  |
| :---: | :---: | :---: | :---: |
| Employment and unemployment data are scheduled for initial relcase on the <br> following dates: |  |  |  |
| Reference month | Release date | Reference month | Release date |
| June | July 2 | September | October 2 |
| July | August 7 | October | November 6 |
| August | September 4 | November | December 5 |

# BLS Establishment Estimates Revised to Incorporate March 1997 Benchmarks 

Sharon Strifas

With the release of data for May 1998, the Bureau of Labor Statistics introduced its annual revision of national estimates of employment, hours, and earnings from the Current Employment Statistics (CES) monthly survey of nonfarm establishments. Each year, the CES survey realigns its sample-based estimates to reflect more currently available universe counts of employment-a process known as benchmarking. Comprehensive counts of employment, or benchmarks, are derived primarily from employment data reported on unemployment insurance (UI) tax reports that nearly all employers are required to file with State employment security agencies.
The incorporation of the March 1997 benchmarks has revised all unadjusted data for the period subsequent to the March 1996 benchmark, that is, April 1996 forward. In accordance with usual practice, all seasonally adjusted all employee and women workers series have been revised from January 1993 forward. Seasonally adjusted series for employment, hours, indexes of aggregate hours, and earnings of production or nonsuperivisory workers have been revised from January 1989 forward, in order to incorporate refinements in the seasonal adjustment process. As explained later, these refinements mitigate a calendar effect in the series related to the processing of sample reports for employers with semimonthly and monthly payroll periods.

In addition, the procedure for seasonally adjusting the local government employment series has been modified to

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produce seasonal factors that better reflect current industry seasonal patterns.
Moreover, all employee data are now published for several State and local government industry series. (See table B-12.) For State government, the series include construction; transportation and public utilities; services; social services; and services, except hospitals, education, and social services. For local government, the series include services; social services; and services, except hospitals, education, and social services. Historical data for all series begin in 1972.

## Summary of the benchmark revisions

The March 1997 benchmark level for total nonfarm employment is $120,903,000$; this figure is 431,000 above the previously published sample-based estimate, constituting an adjustment of 0.4 percent. This year's overall revision was well within the range of the zero to $\pm 0.7$ percent benchmark revisions experienced in recent years (table 1 ).
Table 2 summarizes the March 1997 revisions (not seasonally adjusted) by industry. This year's benchmark revision came from an upward revision in the goods-producing sector of 196,000 , or 0.8 percent, coupled with an upward revision in the service-producing sector of 235,000 , or 0.2 percent. The upward adjustment within the goods-producing sector came mostly from manufacturing which was adjusted by 122,000 , or 0.7 percent. The service-producing sector revision was led for the most part by a large upward revision in the services industry, 338,000 ( 1.0 percent). This was offset by smaller downward revisions in transportation and public utilities, wholesale trade, retail trade, and government.

Table 1. Percent differences between nonfarm employment benchmarks and estimates by industry division, March 1990-971

| Industry | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total | -0.2 | -0.6 | -0.1 | 0.2 | 0.7 | 0.5 | (2) | 0.4 |
| Mining | -3.3 | -. 6 | -. 8 | 2.2 | -. 7 | . 2 | . 5 | 3.1 |
| Construction | -. 8 | -. 2 | -2.6 | 1.6 | 1.9 | -1.6 | . 2 | 1.1 |
| Manufacturing .............................................................. | . 3 | . 1 | -. 8 | 1.1 | 1.3 | . 3 | 1.0 | . 7 |
| Transportation and public utilities ................................... | -. 3 | -1.0 | -. 6 | 1.0 | 2.2 | -. 7 | -1.2 | -. 3 |
| Wholesale trade. | -2.6 | -. 2 | . 7 | -2.6 | 1.2 | 1.2 | -1.7 | -. 1 |
| Retail trade | -. 3 | -. 3 | . 9 | -. 2 | 1.3 | 1.6 | . 5 | -. 1 |
| Finance, insurance, and real estate ................................ | -1.4 | -. 4 | -1.5 | 1.5 | 2.1 | -1.8 | -1.1 | . 5 |
| Services. | . 3 | -1.6 | . 2 | . 1 | -. 8 | . 9 | . 1 | 1.0 |
| Government | . 2 | -. 3 | . 4 | -. 1 | . 4 | . 2 | -. 1 | -. 4 |

[^0]Within manufacturing, nearly all the component series contributed to the overall upward revision. Both durable and nondurable goods had moderate upward adjustments of 73,000 ( 0.7 percent) and 49,000 ( 0.6 percent), respectively. Within durable goods, the largest revisions were in electronic and other electrical equipment $(30,000)$, transportation equipment $(13,600)$, and stone, clay, and glass products $(10,200)$. Among the nondurable goods industries, apparel and other textile products had an upward revision of 12,100 and printing and publishing, 8,600 .

Within the service-producing sector, there were small downward revisions in the two trade divisions; retail trade was revised downward by 27,000 ( -0.1 percent), and wholesale trade was adjusted downward by 4,000 ( -0.1 percent). The services division had a large upward revision of $338,000(1.0$ percent), with business services accounting for most of this large upward adjustment $(218,000)$. Other upward adjustments within services included membership organizations $(52,300)$, amusement and recreation services $(33,400)$, and educational services $(31,400)$.

Among the other major divisions, transportation and public utilities, and government had downward revisions of 22,000 ( -0.3 percent), and 87,000 ( -0.4 percent), respectively. Finance, insurance, and real estate had an upward revision of 37,000 (0.5 percent).

## Revisions in the post-benchmark period

New estimates have been computed for each month since March 1997, based on the new benchmark levels. On a seasonally adjusted basis, the revision in total nonfarm employment stands at 308,000 in February 1998, reflecting the adjustment to new benchmark levels and the recomputation of bias and seasonal adjustment factors. Table 3 details the extent of the revisions in both level and change, through a comparison of seasonally adjusted monthly data as previously published and as revised.

While the total nonfarm (not seasonally adjusted) March 1997 benchmark adjustment was 431,000 , by February 1998 the adjustment was 406,000 . Average monthly bias adjustment levels for April 1997 to March 1998 were unchanged at an average of 150,000 per month.

Special revisions in the help supply services industry. The substantial upward revision in business services was due mostly to a large revision in the help supply services industry $(130,800)$. Most of the adjustment is attributable to response error discovered in sample reports from the industry. To remove the incorrectly reported data and preserve the existing seasonal patterns, instead of the "wedge back" procedure (routinely used to adjust data for the months between the most recent March benchmark and the previous year's benchmark), the estimates for this industry were replaced with UI universe counts from April 1996-February 1997. The post-benchmark estimates for April 1997 through June 1997 also were replaced with UI universe counts. The combined effect on June 1997 of replacing the second quarter 1997 estimates with

UI universe counts, and the March benchmark adjustment is an increase of about 250,000 to the previously published level. The estimates for this industry were recalculated from June 1997 forward using standard methodology, that is, by applying the previously derived sample-based changes which were absent the incorrect reports.

## Why benchmarks differ from estimates

A benchmark revision is the difference between the benchmark level for a given March and its corresponding samplebased estimate. The overall accuracy of the establishment survey is generally gauged by the size of this difference. The benchmark revision is often regarded as a proxy for total survey error, but this does not take into account error in the universe data. The employment counts obtained from quarterly unemployment insurance tax forms are administrative data that reflect employer recordkeeping practices and differing State laws and procedures. The benchmark revision can be more precisely interpreted as the difference between two independently derived employment counts, each subject to its own error sources.

Like any sample survey, the establishment survey is susceptible to two sources of error: Sampling error and nonsampling error. Sampling error is present anytime a sample is used to make inferences about a population. The magnitude of the sampling error, or variance, relates directly to sample size and the percentage of the universe covered by that sample. The CES monthly survey captures slightly over one-third of the universe-exceptionally high by usual sampling standards. This coverage implies a very small sampling error at the total nonfarm employment level.

Both the universe counts and the establishment survey estimates are subject to nonsampling errors common to all surveys-coverage, response, and processing errors. The error structures for both the CES monthly survey and the UI universe are complex. Still, the two programs generally produce fairly consistent total employment figures, each validating the other. Over the prior decade, annual benchmark revisions at the total nonfarm level have averaged 0.3 percent, with an absolute range from less than 0.05 percent to 0.7 percent.

Update on the CES sample redesign. In June 1995, BLS announced plans for a comprehensive redesign of the sample of establishments for its monthly payroll survey. The Bureau's plans called for a 2-year research effort to develop the new sample design, followed by a 2 -year production test of survey methods, procedures and systems, with a phased-in implementation of the new design following thereafter. As scheduled, the research phase for the CES sample redesign was completed in June 1997, and the Bureau launched a production test of the new sample design at that time. While the production test was originally scheduled to conclude in June 1999, it has been extended for 1 year. BLS is postponing the initial implementation of the redesign until June 2000 when it expects to introduce the first estimates from the new design
with the 1999 benchmark revisions, for the wholesale trade industry. The remaining industry divisions are scheduled to be phased in with subsequent years' benchmark releases over a 3- to 4 -year period.

The 1 -year postponement in the implementation of the redesign results from difficulties experienced during the first year of the production test, as well as issues that arose in the ongoing CES program. The goal of the first year of the production test was to evaluate the feasibility of the CES redesign methods, systems, and procedures in a live production environment. The new probability-based methodology is much more complex than the current methodology and requires more complex operating procedures and computer systems to support it, particularly in the areas of sample updating, new respondent enrollment, and monthly data collection. The live testing during the past year identified a number of areas where the research methodologies needed to be strengthened and the operating procedures and software systems needed to be expanded in their functionality. Initial complications were experienced in establishing the regular quarterly sample updates required by the new design and in achieving high response rates from the respondents targeted as new sample members for the redesign.

Progress on software development for the new computer systems for the redesign was slowed significantly due to a redirection of systems priorities towards ensuring that the existing CES processing system is Year 2000 compliant. In addition, there were some delays in methods and procedures development over this past year, due to the considerable time and effort needed to correct a calendar-related effect that was discovered to be significantly distorting month-to-month movements in current CES hours and earnings series.

Background on the new CES sample design. The new design is a State-based, stratified simple random sample, where the strata, or sub-populations, are specified by industry and employment size. The sampling rates for each stratum are determined through a method known as optimum allocation, which distributes a fixed number of sample units across a set of strata in such a way as to minimize the overall variance, or sampling error, on the primary estimate of interest. For the CES redesign, the number of sample units is fixed to the approximate size of the existing CES survey; this is the sample size supportable by current program resources. The total nonfarm employment level is the primary estimate of interest and the new design gives top priority to measuring it as precisely as possible, or, in other words, to minimizing the statistical error around the statewide total nonfarm employment estimates. The current sample size can support the publication of considerable industry and geographic detail within a State and provide for highly reliable national CES estimates at the total nonfarm and detailed industry levels.
The sampling frame, and the CES sample itself, will be updated on a quarterly basis, as each new quarter of UI-based universe data becomes available. This quarterly frame maintenance will keep the sample up-to-date by adding new firm
births and deleting business deaths and will provide the basis for a regular program of sample rotation. The basic sampling unit is a UI account number. UI numbers are unique within a State and generally cover all the individual worksites within a firm. Defining the UI account as the basic sampling unit provides for the implicit capture of worksite births and deaths within multi-establishment firms. During monthly data collection, sample respondents can be queried about the opening and closing of worksites and this information incorporated into the estimation process.

In addition to the quarterly updates, which facilitate sampling for new business births, the new design also calls for an annual update process which includes sample frame maintenance and the redrawing of the entire sample for the first quarter of each year. Frame maintenance provides for the updating of industry and size class designations and the merging of the quarterly supplemental birth samples into the overall frame. A high degree of overlap at each annual update is expected because all UI accounts on the sample frame are ordered through a technique known as permanent random numbers (PRN's). This technique assigns random numbers to all UI accounts on the universe frame at the time they first appear and then sequentially orders the frame by the PRN's. Working down the ordered PRN list then fulfills the allocation for each sampling cell until the full complement of needed units is drawn. Because the random numbers are permanent and thus remain in essentially the same order on the frame, it is expected that between 90 to 95 percent of UI accounts drawn for the sample for any given year will be drawn again the following year. This then minimizes cancellation of existing sample units and the need to solicit replacement units. This basic schematic will be modified somewhat when BLS implements a sample rotation, after full implementation of the initial probability sample.

Estimation formulas. As an integral part of the new sample design, improved estimators also have been developed and tested for the CES survey. Estimates will be generated using a stratified expansion estimator that uses weights developed from the population sampling fractions to expand the sample employment to an estimate of universe employment. Benchmark factors, or post-stratification weights, that take advantage of information available from the most recent UI population count, will augment this basic technique. These benchmark factors rely on a strong correlation between current month and benchmark month employment across business establishments to provide for variance reduction.

Business birth and death estimation. Regular quarterly updating of the CES sample frame, with information from the UI universe files will help keep the CES survey current with respect to employment from business births and deaths as indicated above. The most timely UI universe files available, however, will always be a minimum of 6 to 9 months out of date, with respect to the current reference month for estimation. The CES survey thus can not rely on quarterly frame
maintenance alone to provide estimates for business birth and death employment contributions. BLS has researched both sample-based and model-based approaches to measuring birth units that have not yet appeared on the UI universe frame.

Over the past year, BLS concluded research on a samplebased approach to measuring employment from new business births, but found it to be untenable in the actual CES production environment. This approach was based on the development of new business birth frames each month. BLS collected files of new UI account registrations from each of its State partners in the State employment security agencies (SESA's) to develop the frames, drew and screened a birth sample, and then began immediate monthly collection of data. The major drawback to this method was that the files of new UI accounts available from the SESA's each month were not current enough to form an accurate birth sampling frame. The research revealed that firms first registering for UI had often been in existence for several months prior to their registration; many new businesses do not register until after the end of the quarter in which they first have UI-covered employment. Additionally it was found to be very costly to create frames and select and enroll monthly birth samples, and results from birth estimate simulations indicated a high degree of variability associated with the estimates. All of these factors led BLS to abandon the approach of a monthly samplebased estimate for new business births.

Model-based approach. BLS now is concentrating on modelbased approaches to measuring employment from business births and deaths each month. Early exploratory research indicated that while both the business birth and the business death components of employment change were relatively large, the net contribution of births and deaths was quite small and relatively stable. BLS is testing two model-based approaches to estimating the net birth/death component of total employment change each month.

The first modeling approach relies primarily on using death units to impute for the missing birth units. The primary feature of this approach is the imputation of an employment level for all sample units which do not report in a given month, including those found to be out of business. Research to date shows this approach works reasonably well in most industry divisions. In the retail trade and services divisions, however, where birth employment change has been consistently outpacing death employment change, a supplemental net birth/ death model is required in addition to the imputation approach, to properly account for all of the birth employment. An operational advantage of this method is that it does not require distinction between sample nonresponse for business death versus other reasons; employment for all nonresponding sample members is imputed in the same manner.

The second modeling approach directly estimates a net birth/death employment component from historical observations, plus a separate variable for the observed movement in the sampled part of the population. This method assumes CES will capture and use information on business deaths, on a

1-month lagged basis, through the data collection process. It thus makes use of information on out-of-business units in monthly estimation.

Both of these techniques have the limitations common to all time series models, the inability to react quickly to sudden changes in trend and economic turning points. Both rely on historical patterns and relationships, and additionally incorporate information from the current movements observed in the reported sample to help estimate the birth and death employment contribution to total nonfarm employment.

Current methodological research. To date, the research work to develop new methodologies for sample design and estimation has been completed, as briefly described above. In addition, substantial research has been completed and further work is in progress in the areas of new respondent enrollment protocols and business birth/death estimation methods.

BLS is in the earlier stages of methods research for benchmarking and seasonal adjustment. The major issue affecting benchmarking is achieving consistency between national and State estimates. Currently, the national and State estimates utilize different methodologies to adjust data for the interbenchmark periods between the March benchmark reference points, and utilize somewhat different procedures for establishing benchmark levels for the small portion of the population not covered by the UI universe-based benchmark. Developing a consistent methodology is critical to achieving the goal of consistent and approximately additive national and State series.

The major issue for seasonal adjustment centers around the potential emergence of new seasonal patterns that differ significantly from those evidenced by the current CES samplebased estimates. As the CES program transitions to a more representative sample of the UI universe, some of the differing seasonal patterns now evident between the sample-based estimates and the universe counts are expected to be reduced or eliminated. Because the seasonal adjustment process requires a consistent historical series to produce accurate seasonal adjustment factors, BLS is examining the use of universe counts or some hybrid of sample and universe based series for the seasonal adjustment process.

Computer systems and operating procedures. To date, prototype systems and procedures have been developed for sample frame construction and sample selection including quarterly and annual updating. For the new design and estimators to work effectively requires a continual, precise accounting of each UI account on the sample frame and each of its associated worksites. This accounting is updated each quarter with UI birth and death information, and annually when the survey sample is redrawn. This is a complex process because there are large numbers of administrative, as well as economic changes that occur in the UI-based sample frames. The new design also requires precise updating of the status of sampled UI accounts each month. Procedures also were developed to track and handle separately overlap UI accounts,
i.e., those included in both the existing CES and the new probability design.
Revised systems and operating procedures also have been developed for the solicitation of new sample respondents and their initial enrollment into the sample. The transition from a quota-based to a probability-based sample requires that high response rates be achieved for the exact sample as selected. Under the former quota sampling method, if solicitation response rates were low, solicitation of substitute units continued until the target sample size for a given sampling cell was achieved. Because of the very different nature of probability sampling, significantly improved solicitation protocols and procedures needed to be developed, including refusal conversion efforts targeted to reluctant respondents, and personal visit initiation for the largest firms selected for the sample.

Monthly data collection systems and procedures required significant enhancement to provide for the immediate capture of information on the openings and closings of worksites within multi-establishment UI accounts to fulfill the sample design specifications. All of the CES data collection modestelephone, electronic filing, and mail-required reprogramming.

Additionally, an improved set of microdata screening procedures, as well as estimate review procedures are in the early test stages. The new procedures will provide for more consistency of approach across national, State, and area estimation, and rely less on individual analyst's decision-making processes than current procedures.

Next stages in the production test. Wholesale trade was selected as the first major industry division for probability design phase-in and the production test thus far has concentrated on collecting data for that industry. The enrollment of the entire wholesale trade sample is expected to be complete by the fall of 1998. The enrollment of wholesale nondurables, the first of two major industry groupings within the division, is nearing completion, and BLS expects to begin making a full set of parallel estimates for this component over the summer. Manufacturing will be the next major industry division targeted for probability design conversion; enrollment for that division is scheduled to begin by the end of this year.

Sample redesign implementation plans. The Bureau intends to proceed with a phased-in implementation of the new CES sample design beginning in June 2000, coincident with the publication of March 1999 national benchmark revisions. The wholesale trade industry series for national estimates will be converted to the new probability-based procedures at that time. Probability-based estimates for State and area wholesale trade series are targeted for introduction in March 2001 with the next State benchmark revision.
After the initial conversion of wholesale trade, BLS will continue a phase-in of the new design by major industry division. Implementation of the new sample and estimators for major divisions will be scheduled to coincide with the
publication of benchmark revisions, in order not to disrupt published over-the-month changes for current month estimates with a continually changing sample composition. BLS expects to complete conversion of all industries approximately 4 years from the start of implementation.

Much of the research work for the CES sample redesign completed to date by BLS and its expert consultants from Westat Inc., the National Opinion Research Center at the University of Chicago, and the University of Michigan Survey Research Center, is summarized in a set of eight technical papers presented at the 1997 Summer Joint Statistical Meetings sponsored by the American Statistical Association. The papers have been published in the meeting proceedings and also are available upon request from BLS.

## Effect of benchmark revisions on other series

The routine benchmarking process also results in revisions in the series on women workers and production or nonsupervisory workers. There are no benchmark employment levels for these series; they are revised by preserving ratios of employment for the particular series to all employees prior to benchmarking, and then applying these ratios to the revised all-employee figures. These figures are calculated at the basic cell level and then aggregated to produce the summary estimates.

Average weekly hours and average hourly earnings are not benchmarked; they are estimated solely from reports supplied by survey respondents at the basic estimating cell level. The broader industry groups of the hours and earnings series, however, 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 or nonsupervisory workers at higher levels of aggregation.
Generally, new employment benchmarks have little effect 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 that have substantially different hours or earnings averages than 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. Table 4 gives detailed information on revisions to specific hours and earnings series resulting from the March 1997 benchmark. At the total private level, average hourly earnings were revised upward by 1 cent, and average weekly hours were revised upward by 0.01 hour.

## Methods

Benchmark adjustment procedure. Establishment survey benchmarking is done on an annual basis to a population
derived primarily from the administrative file of employees covered by unemployment insurance (UI). The time required to complete the revision process-from the full collection of the UI population data to publication of the revised industry estimates-is about 15 months. The benchmark adjustment procedure replaces the March sample-based employment estimates with UI-based population counts for March. The benchmark therefore determines the final employment levels, while sample movements capture month-to-month trends.

Benchmarks are established for each of the 1,698 in-dustry-size-class basic estimation cells and are aggregated to develop published levels. On a not seasonally adjusted basis, the sample-based estimates for the year preceding and the year following the benchmark also are then subject to revision.

Employment estimates for the months between the most recent March benchmark and the previous year's benchmark are adjusted using a "wedge back" procedure. In this process, the difference between the benchmark level and the previously published March estimate for each estimating cell is computed. This difference, or error, is linearly distributed across the 11 months of estimates subsequent to the previous benchmark; eleven-twelfths of the March difference is added to February estimates, ten-twelfths to January estimates, and so on, ending with the previous April estimates, which receive one-twelfth of the March difference. The wedge procedure assumes that the total estimation error accumulated at a steady rate since the last benchmark.

Applying previously derived over-the-month sample changes to the revised March level recalculates estimates for the months following the March benchmark. New bias adjustment factors, which incorporate the most recent benchmark experience, also are calculated and applied during postbenchmark estimation.

Benchmark source material. The principal source of benchmark data for private industries is the "ES-202 report." This report contains employment data provided to State employment security agencies by employers covered by State UI laws. The ES-202 is supplemented by universe counts for Federal employees derived from summaries prepared by the U.S. Office of Personnel Management (OPM) for the executive, legislative, and judicial branches. These summaries are complete counts of Federal workers and usually are not subject to revision.' The official OPM summaries do not provide industry detail for Federal employment, such as hospitals, on a current monthly basis. BLS estimates these from a sample of Federal establishments. BLS uses several other sources to establish benchmarks for the remaining industries partially covered or exempt from mandatory UI coverage, accounting for nearly 2.5 percent of the nonfarm employment total. Data

[^1]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, child day-care workers, religious organizations, and private schools and hospitals. Benchmarks for State and local government hospitals and educational institutions are based on the Annual Census of Governments conducted by the Bureau of the Census. Benchmark data from these sources are available only on a 1- or 2-year lagged basis; extrapolation to a current level is accomplished by assuming and applying the employment trends from the UI-covered part of the population in these industries to the non-covered part. Universe data for interstate railroads are obtained from the Interstate Commerce Commission.

Bias adjustment. Bias adjustment factors are computed for each 3-digit SIC level, but are applied at the basic cell level, as part of the standard monthly estimation procedures. The main purpose of bias adjustment is to reduce a primary source of nonsampling error in the survey-the inability to capture, on a timely basis, employment generated by new business formations. There is a lag between an establishment opening for business and its appearance on the UI universe frame to be available for sampling. Because new firms generate a substantial amount of employment growth during any given year, nonsampling methods are used to estimate this growth; otherwise substantial underestimation of total employment levels would occur. Formal bias adjustment procedures have been used in the CES program since the late 1960s. Prior to the 1983 benchmark, bias adjustments were derived from a simple mean error model, which averaged undercount errors for the previous 3 years to arrive at bias projections for the coming post-benchmark year.

This procedure eventually proved inadequate during periods of rapidly changing employment trends, and the bias adjustment methods were revised. Research done in the early 1980s indicated that bias requirements were strongly correlated with current employment growth or decline. Based on this finding, a revised method was developed. It incorporated data on employment growth over the most recent two quarters, and a regression-derived coefficient for the significance of that change, to adjust the mean error model results. This methodological enhancement made the model more sensitive to cyclical changes. BLS has used the regression-adjusted mean error model since 1983 for the production of national estimates.

Although an important function of bias adjustment is to account for employment resulting from new business formations, it also adjusts for other types of nonsampling error in the survey. Because the primary input to the modeling procedure is the total estimation error, the monthly bias adjustment levels have no specific economic meaning in and of themselves but represent a correction process for a complex joint error structure of sample and universe data.

Text table A summarizes the above discussion. It shows the March benchmarks and revisions for total private employ-

Text table A. March employment benchmarks and blas adjustments for total private industries, March 1987-97
(in thousands)

| Year | Benchmark |  | Average monthly |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Employment ${ }^{1}$ | Revision ${ }^{2}$ | Added ${ }^{3}$ | Required ${ }^{4}$ |  |
| 1987 ........... | 83,173 | 21 | 98 | 99 | 1,969 |
| 1988 ........... | 86,180 | -310 | 114 | 88 | 3,007 |
| 1989 ........... | 89,015 | -93 | 131 | 123 | 2,835 |
| 1990 ........... | 90,546 | -261 | 85 | 63 | 1,531 |
| 1991 ........... | 88,790 | -583 | 61 | 12 | -1,756 |
| 1992 ......... | 88,347 | -130 | 33 | 22 | -443 |
| 1993 ......... | 89,790 | 288 | 83 | 107 | 1,443 |
| 1994 ........... | 92,730 | 688 | 115 | 171 | 2,940 |
| 1995 ........... | 96,175 | 511 | 144 | 187 | 3,445 |
| 1996 ........... | 98,158 | 72 | 129 | 135 | 1,983 |
| 1997 ........... | 101,040 | 518 | 130 | 173 | 2,882 |

${ }^{\text {' Universe counts for March of each year are used to make annual }}$ benchmark adjustments to the employment estimates. About 98 percent of the benchmark employment is from unemployment insurance administrative records, and the remaining 2 percent is from atternate sources. Data represent benchmark levels as originally computed.
${ }_{2}$ Difference between the final March sample-based estimate and the benchmark level for total private employment.
${ }^{3}$ The average amount of bias adjustment each month over the course of an inter-benchmark period, i.e., from April of the prior year through March of the given year.
${ }^{4}$ The difference between the March benchmark and the March estimate derived solely from the sample without bias adjustment, converted to a monthly amount by dividing by 12.
${ }^{5}$ March-to-March changes in the benchmark employment level. NOTE: Data in this table exclude government employment because there is no bias adjusiment for this sector.
ment from 1987 through 1997. The table also shows the average monthly "bias added" and "bias required." Bias added is the average amount of bias which is added each month over the course of an inter-benchmark period. For example, the bias added for 1997 was 130,000 ; this represents the average bias adjustment made each month over the period April 1996 through March 1997. Bias required is computed retrospectively, after the March benchmark for a given year is determined. Total bias required is the difference between a March estimate derived purely from the CES sample (i.e., a series calculated without any bias adjustment) and the March benchmark. Dividing this figure by 12 gives the average monthly bias required figure. The bias required thus equals the amount of monthly bias adjustment needed to achieve a zero benchmark error. For a given year, the difference between the total bias required and total bias added is approximately the benchmark revision amount. Also included in the table, for comparison, is the March-to-March change. As discussed above, the over-the-year change shows some correlation with the bias added and bias required figures.

The current bias estimation model still has limitations in its ability to react to changing economic conditions or changing error structure relationships between the sample-based estimates and the UI universe tabulations. A principal dis-
advantage is the model's inability to incorporate UI counts as they become available on an ongoing basis, with their 6- to 9 month lags from the reference period. The quarterly bias factors currently produced by the model are therefore subject to intervention analysis, and adjustments can be made to its results prior to the establishment of final factors for a quarter. The bias factors are reviewed primarily through detection of outliers (i.e., abnormally high or low values) and by comparison of CES sample and bias trends with the most recent quarterly observations of UI universe counts.

Noneconomic code changes. Historically, a major source of benchmark revision at the major industry division levels and below are noneconomic code changes. These are introduced into the universe data the first quarter of each calendar year.

Each year, coding for approximately one-third of all establishments is reviewed and corrected as necessary through the SIC refiling survey. Corrections to individual establishments' SIC and ownership codes are made through this process. The volume of these corrections has often been quite large and had substantial effects on universe employment distributions at the industry levels, but effects on total nonfarm employment have been minimal. BLS and its State partners are near the end of a multi-year conversion to a new refiling schedule, which uses a random selection method to target one-third of all UI universe units for refiling in a given year. Previously, refiling procedures called for each major industry division to be refiled every third year. The refiling schedule refinement was made as a result of large benchmark revisions and corresponding distortions in over-the-year employment trend measurement for specific industries.

Effects for the 1997 benchmark. The services division was refiled over the past year for the States which have not yet converted to the random selection method described above. The results of this refiling affected the measurement of benchmark revisions for 1997 most significantly in manufacturing, and finance, insurance, and real estate; about half of the revision in each industry was due to refiling. The revision in construction was also exaggerated by the noneconomic code changes. Services, transportation and public utilities, wholesale trade, and retail trade had the opposite effect; that is, had it not been for the refiling, the upward revisions would have been larger. Text table $B$ shows the net effect on all major divisions from the most recent refiling, and displays the actual benchmark revision alongside an "adjusted benchmark revision," the amount of revision excluding the noneconomic code change component.

## Seasonal adjustment procedure

BLS uses X-12 ARIMA software developed by the Bureau of Census to seasonally adjust employment, hours and earnings series derived from the CES program. Series are seasonally adjusted using multiplicative models; additive models are not considered. For employment, seasonal adjustment factors are directly applied to the component levels.

Text table B. Effect of noneconomic code changes on benchmark employment levels by industry, March 1997
(Numbers in thousands)

| Industry | Overall benchmark revision | Net employment shift due to code changes' | Benchmark revision, less effect of code changes | Percent benchmark revision |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Total | Less eflect of code change |
| Total nonfarm ................................................ | 431 | 2 | 429 | 0.4 | 0.4 |
| Mining ............................................................. | 18 | 1 | 17 | 3.1 | 2.9 |
| Construction ..................................................... | 56 | 14 | 42 | 1.1 | . 8 |
| Manufacturing ................................................... | 122 | 74 | 48 | . 7 | . 3 |
| Transportation and public utilities ....................... | -22 | 22 | -44 | -. 3 | -. 7 |
| Wholesale trade ................................................ | -4 | -30 | 26 | -. 1 | -. 1 |
| Retail trade ...................................................... | -27 | 3 | -30 | -. 1 | -. 1 |
| Finance, insurance, and real estate .................... | 37 | 19 | 18 | . 5 | . 3 |
| Services ............................................................ | 338 | -96 | 434 | 1.0 | 1.2 |
| Government ..................................................... | -87 | -5 | -82 | -. 4 | -. 4 |

${ }^{1}$ Shift is measured and based on December 1995 employment levels.

Individual 2-digit SIC levels are seasonally adjusted and higher level aggregates are formed by summation of these components. Seasonally adjusted totals for hours and earnings are obtained by taking weighted averages of the seasonally adjusted data for the component series. Seasonally adjusted data are not published for a small number of series characterized by small seasonal components relative to their trend-cycle and irregular components. These series are identified in tables 6 through 11. These unpublished series are used, however, in aggregations of broader seasonally adjusted levels.
BLS computes and publishes projected seasonal factors twice a year for use in seasonally adjusting the establishmentbased employment, hours, and earnings series. Factors for the 6 -month period, May through October 1998, are published in tables 6 through 11. Additionally, these tables include revised seasonal factors for March and April 1998, based on the most current seasonal adjustment computations; these factors are in use for the March final and April second preliminary and final estimates.

With the release of the 1995 benchmark revision, BLS began refining its seasonal adjustment procedures to control for survey interval variations, sometimes referred to as the 4 versus 5 -week effect. At that time, data for 1988 forward were revised to incorporate this new methodology.

BLS is continuing its special treatment in seasonally adjusting the construction industry series, which began with the 1996 benchmark. Initially, in the application of the interval effect modeling process to the construction series, there was difficulty in accurately identifying and measuring the effect because of the strong influence of variable weather patterns on employment movements in the industry. Thus, interval effect modeling was not used for the construction series over the first year of the $\mathrm{X}-12$ implementation. Further research by BLS had allowed incorporation of interval effect modeling for the construction industry, by disaggregating the construction series into its finer industry and geographic estimating
cells and tightening outlier designation parameters. This allowed a more precise identification of weather-related outliers which had masked the interval effect and clouded the seasonal adjustment patterns in general. With these outliers removed, interval effect modeling became feasible. The end result is an improved seasonally adjusted series for construction, because it is controlled for two potential distortions, unusual weather events and the 4 - versus 5 -week effect.

For a few series, model fitting for the interval effect continues to be problematic; these series are seasonally adjusted with the $\mathrm{X}-12$ procedures but without the interval effect adjustment. The all-employee series without the interval effect adjustment are: Local and interurban passenger transit, private educational services, membership organizations, miscellaneous services, not elsewhere classified, and motor vehicles and equipment.

BLS is continuing the practice of making special adjustments for average weekly hours and average weekly overtime series to account for the presence or absence of religious holidays in the April survey reference period and Labor Day in the September reference period. From 1988 forward, those adjustments are accomplished as a part of the X-12 ARIMA modeling process; data prior to 1988 are adjusted through a moving-holiday extension of X-11 ARIMA. A special adjustment also is made in November each year for poll workers in the local government, except education series; this adjustment is incorporated as part of the X-12 modeling process for 1988 forward; an X-11 based procedure is used for earlier years.

The standard procedure for seasonal adjustment for the local education employment series has been improved with this benchmark update. The CES seasonal adjustment procedure uses forecasted seasonal factors for 6 months. In the past, these seasonal factors have been derived using the standdard seasonal adjustment procedure of a logarithmic transformation of the data as input for the multiplicative de-
composition of the series. However, in recent years these forecasted seasonal factors have failed to adequately reflect the changing behavior of the industry in the summer months. In order to improve the factors, they are now derived using a square-root transformation of the data as input for an additive decomposition of the series. These modifications produce seasonal factors that better reflect current industry seasonal patterns, however, the annual averages of seasonally adjusted and unadjusted series will not be equal.

New refinements in hours and earnings seasonal adjustment. Over this past year, BLS has conducted research into potential distortions in published over-the-month changes in the average weekly hours and average hourly earnings series of the CES program. There was a significant correlation between over-the-month changes in both the hours and earnings series and the number of weekdays in a month, resulting in noneconomic fluctuations in these two series. Both series showed more growth in 'short' months ( 20 or 21 weekdays) than 'long' months ( 22 or 23 weekdays). Much of the previously unexplained volatility in these series was recognizable as attributable to this calendar effect. The calendar effect was evident from 1989 forward in most service-producing industries and at the total private level. The effect was much stronger for the hours than for the earnings series. Further detailed research traced the calendar effect to response and processing errors associated with converting payroll and hours information from sample respondents with semi-monthly or monthly pay periods to a weekly equivalent.
The response error comes from sample respondents reporting a fixed number of total hours for workers regardless of the length of the reference month, while the CES conversion process assumes the hours reporting will be variable. A constant level of hours reporting most likely occurs when employees are salaried rather than paid by the hour, as employers are less likely to keep actual detailed hours records for these employees. This causes an artificial peak in the hours series in shorter months that are reversed in longer months. The processing error occurs when respondents with salaried workers do report hours correctly (vary them according to the length of the month), and different conversion factors should be applied to payroll and hours. The CES processing system uses the hours conversion factor only for both fields, resulting in peaks in the earnings series in short months and reversals in long months. Currently, the CES processing system can accommodate only one conversion factor per reporter.

Several research methods were pursued to confirm the scope and sources of the problem, and identify possible solutions. REGARIMA (regression with auto-correlated errors) modeling was used to identify, measure, and remove the length-of-pay period effect for the publication level seasonally adjusted hours and earnings series. REGARIMA modeling combines standard regression analysis, which measures correlations among two or more variables, with ARIMA modeling, which describes and predicts the behavior of a data series based on its own past history. The length-of-pay
period variable proved significant for explaining movements in hours in all the service-producing major industry divisions. For average hourly earnings, the length-of-pay period variable was significant for three major industry divisions: Wholesale trade, finance, insurance, and real estate, and services. Application of REGARIMA models yielded seasonally adjusted series that compare quite favorably in terms of smoothness with the currently published series.

Second, to confirm that semi-monthly and monthly reports are the source of calendar-related fluctuations, estimates were simulated excluding semi-monthly and monthly reports. The simulated hours and earnings series produced without any semi-monthly or monthly reports appeared to be free of the calendar-related spikes found in the published series.

In addition, a sample of 100 semi-monthly and monthly respondents were re-contacted to inquire about their hours and earnings reporting practices to confirm that the source of the problem stemmed from reporting practices for salaried workers. Respondents reported using actual hours figures over 90 percent of the time to compile data for their hourly paid workers. By contrast, actual hours were available only 12 percent of the time for salaried workers. When actual hours figures were not available, they were estimated. When asked if the number of hours they reported would vary with the number of weekdays in a month, about 80 percent of respondents said yes for the hourly paid workers; they answered yes only 20 percent of the time for the salaried workers. As for payroll data, about 50 percent of respondents have actual payroll data as compared with the 12 percent who have actual hours data. Nearly 90 percent of respondents had actual payroll data for hourly paid workers. In addition, most of those surveyed had both hourly paid and salaried workers combined in their report. Seventy-seven percent of the respondents with both types of payrolls said they could provide separate payroll figures for hourly and salaried workers.

To correct this calendar-related problem in the short run, a REGARIMA model-based adjustment to hours and earnings series was implemented with this benchmark release. All division level hours series in the service-producing sector have been adjusted from January 1989 forward. The division level earnings series for wholesale trade, finance, insurance, and real estate, and services have been adjusted from January 1989 forward, as well. The volatility of over-themonth changes for total private hours and earnings series have been reduced, thereby improving the overall measurement of underlying trends in these key economic indicators.

REGARIMA modeling improves the series but does not correct the underlying microdata response and processing system errors. BLS research will continue in these areas, as part of the comprehensive concepts review and sample redesign efforts now underway. Further research and review will include a reexamination of the viability of collecting hours figures for salaried workers when hard information may not be available from a large percentage of respondents. It will also include the feasibility of collecting payroll information separately for hourly paid and salaried workers in the CES
survey, and modifications to CES processing systems to apply appropriate length-of-pay conversion factors in all cases.
The series to which the length-of-pay period adjustment is applied are not subject to the 4 versus 5 - week adjustment, as the modeling cannot support the number of variables that would be required in the regression equation to make both adjustments. Because the 4 -versus 5 -week models show only marginal significance in the service-producing industries, their replacement with the length-of-pay period adjustment is a viable trade-off. The 4 -versus 5 -week adjustment is most significant in manufacturing hours and earnings series; it will continue to be applied there and in other divisions not affected by the length-of-pay period variable.

## Availability of revised data

LABSTAT, the BLS public database on the Internet, contains all historical employment, hours, and earnings data revised as a result of this benchmark, both unadjusted and seasonally adjusted data, and updated seasonal adjustment factors. The data can be accessed from http://stats.bls.gov/ ceshome.htm, the Current Employment Statistics homepage.
Employment, hours, and earnings 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 quite small or are not represented by a sufficient sample. Table 5 contains the March 1997 benchmark figures for these industries.

Table 2. Differences between nonfarm employment benchmarks and estimates by industry, March 1997
(Numbers in thousands)

| Industry | Benchmark | Estimate | Difference |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Amount | Percent |
| Total ................................................................ | 120,903 | 120,472 | 431 | 0.4 |
| Total private .......................................................... | 101,040 | 100,522 | 518 | . 5 |
| Goods-producing ........................................................... | 24,359 | 24,163 | 196 | . 8 |
| Mining...................................................................... | 580 | 562 | 18 | 3.1 |
| Metal mining ........................................................... | 53 | 54 | -1 | -1.9 |
| Coal mining ............................................................ | 96 | 92 | 4 | 4.2 |
| Oil and gas extraction .............................................. | 327 | 313 | 14 | 4.3 |
| Nonmetallic minerals, except fuels .............................. | 103 | 103 | 0 | 0 |
| Construction .............................................................. | 5,260 | 5,204 | 56 | 1.1 |
| General building contractors ...................................... | 1,237 | 1,227 | 10 | . 8 |
| Heavy construction, except building ............................. | 709 | 685 | 24 | 3.4 |
| Special trade contractors ............................................ | 3,314 | 3,292 | 22 | . 7 |
| Manufacturing ............................................................ | 18,519 | 18,397 | 122 | . 7 |
| Durable goods ......................................................... | 10,894 | 10,821 | 73 | . 7 |
| Lumber and wood products ..................................... | 777 | 781 | -4 | -. 5 |
| Furniture and fixtures ............................................. | 509 | 507 | 2 | . 4 |
| Stone, clay, and glass products ................................ | 540 | 530 | 10 | 1.9 |
| Primary metal industries ......................................... | 709 | 709 | 0 | 0 |
| Blast furnaces and basic steel products .................. | 235 | 236 | -1 | -. 4 |
| Fabricated metal products ....................................... | 1,464 | 1,461 | 3 | . 2 |
| Industrial machinery and equipment ........................... | 2,151 | 2,142 | 9 | . 4 |
| Computer and office equipment .............................. | 368 | , 372 | -4 | -1.1 |
| Electronic and other electrical equipment ................... | 1,672 | 1,642 | 30 | 1.8 |
| Electronic components and accessories .................. | 636 | 614 | 22 | 3.5 |
| Transportation equipment ....................................... | 1,826 | 1,812 | 14 | . 8 |
| Motor vehicles and equipment ............................... | 983 | 969 | 14 | 1.4 |
| Aircraft and parts ................................................. | 485 | 490 | -5 | -1.0 |
| Instruments and related products ............................. | 859 | 853 | 6 | . 7 |
| Miscellaneous manufacturing .................................. | 388 | 385 | 3 | . 8 |
| Nondurable goods .................................................... | 7,625 | 7,576 | 49 | . 6 |
| Food and kindred products ....................................... | 1,651 | 1,653 | -2 | -. 1 |
| Tobacco products ................................................... | 41 | 41 | 0 | 0 |
| Textile mill products ................................................ | 619 | 611 | 8 | 1.3 |
| Apparel and other textile products ........................... | 835 | 823 | 12 | 1.4 |
| Paper and allied products ......................................... | 682 | 673 | 9 | 1.3 |
| Printing and publishing ............................................ | 1,543 | 1,534 | 9 | . 6 |
| Chemicals and allied products ................................. | 1,032 | 1,026 | 6 | . |
| Petroleum and coal products ................................... | 137 | 137 | 0 | 0 |
| Rubber and miscellaneous plastics products ................. | 992 | 986 | 6 | . 6 |
| Leather and leather products ................................... | 93 | 93 | 0 | 0 |
| Service-producing .......................................................... | 96,544 | 96,309 | 235 | . 2 |
| Transportation and public utilities ................................... | 6,331 | 6,353 | -22 | -. 3 |
| Transportation ......................................................... | 4,062 | 4,123 | -61 | -1.5 |
| Railroad transportation ........................................... | 223 | 224 | -1 | -. 4 |
| Local and interurban passenger transit....................... | 460 | 467 | -7 | -1.5 |
| Trucking and warehousing ........................................ | 1,627 | 1,640 | -13 | -. 8 |
| Water transportation ............................................... | 173 | 170 | 3 | 1.7 |
| Transportation by air ............................................... | 1,130 | 1,176 | -46 | -4.1 |
| Pipelines, except natural gas ................................... | 14 | 14 | 0 |  |
| Transportation services .......................................... | 434 | 432 | 2 | . 5 |
| Communications and public utilities ............................. | 2,269 | 2,230 | 39 | 1.7 |
| Communications ................................................... | 1,401 | 1,359 | 42 | 3.0 |
| Electric, gas, and sanitary services ........................... | 868 | 871 | -3 | -. 3 |
| Wholesale trade ......................................................... | 6,567 | 6,571 | -4 | -. 1 |
| Durable goods ...................................................... | 3,882 | 3,877 | 5 | . 1 |
| Nondurable goods ................................................. | 2,685 | 2,694 | -9 | -. 3 |

Table 2. Differences between nonfarm employment benchmarks and estimates by industry, March 1997-Continued (Numbers in thousands)

| Industry | Benchmark | Estimate | Difference |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Amount | Percent |
| Retail trade .............................................................................. | 21,467 | 21,494 | -27 | -. 1 |
| Building materials and garden supplies ................................. | 894 | 888 | 6 | . 7 |
| General merchandise stores ................................................ | 2,598 | 2,674 | -76 | -2.9 |
| Department stores .......................................................... | 2,287 | 2,352 | -65 | -2.8 |
| Food stores. | 3,432 | 3,430 | 2 | . 1 |
| Automotive dealers and service stations | 2,284 | 2,293 | -9 | -. 4 |
| New and used car dealers ........... | 1,046 | 1,052 | -6 | -. 6 |
| Apparel and accessory stores ....... | 1,064 | 1,071 | -7 | -. 7 |
| Furniture and home furnishings stores ................................. | 983 | 1,015 | -32 | -3.3 |
| Eating and drinking places ................................................. | 7,504 | 7,386 | 118 | 1.6 |
| Miscellaneous retail establishments ..................................... | 2,709 | 2,736 | -27 | -1.0 |
| Finance, insurance, and real estate | 6,988 | 6,951 | 37 | . 5 |
| Finance .................................. | 3,368 | 3,359 | 9 | . 3 |
| Depository institutions | 2,015 | 2,030 | -15 | -. 7 |
| Commercial banks . | 1,452 | 1,476 | -24 | -1.7 |
| Savings institutions. | 262 | 254 | 8 | 3.1 |
| Nondepository institutions. | 555 | 535 | 20 | 3.6 |
| Mortgage bankers and brokers | 247 | 241 | 6 | 2.4 |
| Security and commodity brokers ....... | 581 | 577 | 4 | . 7 |
| Holding and other investment offices.. | 217 | 216 | 1 | . 5 |
| Insurance ......................................... | 2,242 | 2,215 | 27 | 1.2 |
| Insurance carriers | 1,521 | 1,498 | 23 | 1.5 |
| Insurance agents, brokers, and service ............................... | 721 | 717 | 4 | . 6 |
| Real estate ........................................................................ | 1,378 | 1,377 | 1 | . 1 |
| Services | 35,328 | 34,990 | 338 | 1.0 |
| Agricultural services ......................................................... | 588 | 580 | 8 | 1.4 |
| Hotels and other lodging places ......................................... | 1,673 | 1,677 | -4 | -. 2 |
| Personal services | 1,244 | 1,257 | -13 | -1.0 |
| Business services ... | 7,677 | 7,459 | 218 | 2.8 |
| Services to buildings | 922 | 891 | 31 | 3.4 |
| Personnel supply services. | 2,794 | 2,676 | 118 | 4.2 |
| Help supply services ....................... | 2,480 | 2,350 | 130 | 5.2 |
| Computer and data processing services | 1,362 | 1,298 | 64 | 4.7 |
| Auto repair, services, and parking | 1,113 | 1,125 | -12 | -1.1 |
| Miscellaneous repair services....... | 369 | 378 | -9 | -2.4 |
| Motion pictures ...................... | 540 | 533 | 7 | 1.3 |
| Amusement and recreation services | 1,406 | 1,373 | 33 | 2.3 |
| Health services. | 9,633 | 9,604 | 29 | . 3 |
| Offices and clinics of medical doctors. | 1,715 | 1,716 | -1 | -. 1 |
| Nursing and personal care facilities | 1,744 | 1,749 | -5 | -. 3 |
| Hospitals ...................... | 3,845 | 3,851 | -6 | -. 2 |
| Home health care services | 706 | 677 | 29 | 4.1 |
| Legal services ...... | 935 | 943 | -8 | -. 9 |
| Educational services | 2,209 | 2,178 | 31 | 1.4 |
| Social services ..... | 2,490 | 2,459 | 31 | 1.2 |
| Child day care services | 581 | 596 | -15 | -2.6 |
| Residential care ........................................................... | 704 | 688 | 16 | 2.3 |
| Museums and botanical and zoological gardens .................. | 84 | $\begin{array}{r}81 \\ \hline 178\end{array}$ | 3 53 | 3.6 |
| Membership organizations ......................... | 2,231 | 2,178 | 53 | 2.4 |
| Engineering and management services ............................... | 2,943 | 2,950 | -7 | -. 2 |
| Engineering and architectural services .............................. | 849 | 858 | -9 | -1.1 |
| Management and public relations ...................................... | 910 | 922 | -12 | -1.3 |
| Services, nec.................................................................... | 48 | 48 | 0 | 0 |
| Government ........................................................................... | 19,863 | 19,950 | -87 | -. 4 |
| Federal ..... | 2,700 | 2,700 | 0 | 0 |
| Federal, except Postal Service ........................................... | 1,850 | 1,850 | 0 | 0 |
| State .................................................................................. | 4,692 | 4,748 | -56 | -1.2 |
| Education ....................................................................... | 2,028 | 2,069 | -41 | -2.0 |
| Other State government .................................................... | 2,664 | 2,679 | -15 | -. 6 |
| Local ............................... | 12,471 | 12,502 | -31 | -. 2 |
| Education | 7,239 | 7,238 | 1 | 0 |
| Other local government ... | 5,231 | 5,264 | -33 | -. 6 |

[^2]Table 3. Differences in seasonally adjusted levels and over-the-month changes, total nonfarm employment, January 1997-February 1998
(In thousands)

| Year and date | Levels |  |  | Over-the-month changes |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | As previously published | As revised | Difference | As previously published | As revised | Difference |
| 1997: |  |  |  |  |  |  |
| January ........................................ | 120,909 | 121,146 | 237 | 250 | 245 | -5 |
| February ...................................... | 121,162 | 121,457 | 295 | 253 | 311 | 58 |
| March .......................................... | 121,344 | 121,779 | 435 | 182 | 322 | 140 |
| April .............................................. | 121,671 | 122,092 | 421 | 327 | 313 | -14 |
| May ............................................. | 121,834 | 122,325 | 491 | 163 | 233 | 70 |
| June ............................................ | 122,056 | 122,534 | 478 | 222 | 209 | -13 |
| July ............................................. | 122,440 | 122,811 | 371 | 384 | 277 | -104 |
| August .......................................... | 122,492 | 122,894 | 402 | 52 | 83 | 31 |
| September .................................... | 122,792 | 123,280 | 488 | 300 | 386 | 86 |
| October .......................................... | 123,083 | 123,568 | 485 | 291 | 288 | -3 |
| November ....................................... | 123,512 | 123,944 | 432 | 429 | 376 | -53 |
| December ...................................... | 123,866 | 124,289 | 423 | 354 | 345 | -9 |
| 1998: |  |  |  |  |  |  |
| January ........................................ | 124,265 | 124,640 | 375 | 399 | 351 | -48 |
| February ........................................ | 124,524 | 124,832 | 308 | 259 | 192 | -67 |

Table 4. Effect of March 1997 benchmark revisions on hours and earnings estimates, selected industries

| Industry | Average weekly hours |  |  | Average hourly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Previous estimate | Revised estimate | Difference | Previous estimate | Revised estimate | Difference |
| Total private............................................................ | 34.6 | 34.6 | . 0 | \$12.17 | \$12.18 | \$0.01 |
| Goods-producing ........................................................... | 41.2 | 41.2 | 0 | 13.72 | 13.73 | . 01 |
| Mining ....................................................................... | 45.7 | 45.7 | 0 | 15.98 | 16.01 | . 03 |
| Construction .............................................................. | 38.4 | 38.4 | 0 | 15.67 | 15.71 | . 04 |
| Manufacturing ............................................................ | 42.0 | 42.0 | 0 | 13.08 | 13.07 | -. 01 |
| Durable goods | 42.9 | 42.9 | 0 | 13.64 | 13.63 | -. 01 |
| Lumber and wood products ........................................ | 40.7 | 40.7 | 0 | 10.60 | 10.61 | . 01 |
| Furniture and fixtures. | 39.9 | 39.9 | 0 | 10.43 | 10.43 | 0 |
| Stone, clay, and glass products ................................. | 42.5 | 42.5 | 0 | 13.03 | 13.02 | -. 01 |
| Primary metal industries ............................................ | 44.8 | 44.8 | 0 | 15.16 | 15.16 | 0 |
| Fabricated metal products .......................................... | 42.5 | 42.5 | 0 | 12.78 | 12.74 | -. 04 |
| Industrial machinery and equipment ............................. | 43.8 | 43.8 | 0 | 13.93 | 13.95 | . 02 |
| Electronic and other electrical equipment ...................... | 44.2 | 42.2 | 0 | 12.49 | 12.49 | 0 |
| Transportation equipment ........................................... | 45.0 | 45.0 | 0 | 17.51 | 17.48 | -. 03 |
| Instruments and related products ................................ | 42.2 | 42.2 | 0 | 13.47 | 13.42 | -. 05 |
| Miscellaneous manufacturing ...................................... | 40.3 | 40.3 | 0 | 10.56 | 10.55 | -. 01 |
| Nondurable goods.. | 40.7 | 40.7 | 0 | 12.25 | 12.25 | 0 |
| Food and kindred products ........................................ | 40.7 | 40.7 | 0 | 11.40 | 11.40 | 0 |
| Tobacco products ..................................................... | 39.1 | 39.1 | 0 | 19.40 | 19.46 | . 06 |
| Textile mill products ................................................... | 41.2 | 41.3 | . 1 | 9.92 | 9.93 | . 01 |
| Apparel and other textile products ............................... | 37.5 | 37.5 | 0 | 8.24 | 8.23 | -. 01 |
| Paper and allied products ........................................... | 43.5 | 43.5 | 0 | 14.93 | 14.92 | -. 01 |
| Printing and publishing ............................................... | 38.7 | 38.7 | 0 | 13.01 | 13.01 | 0 |
| Chemicals and allied products ..................................... | 43.2 | 43.2 | 0 | 16.42 | 16.42 | 0 |
| Petroleum and coal products ...................................... | 43.0 | 43.0 | 0 | 20.51 | 20.48 | -. 03 |
| Rubber and miscellaneous plastics products .................. | 41.8 | 41.8 | 0 | 11.50 | 11.50 | 0 |
| Leather and leather products ...................................... | 38.5 | 38.5 | 0 | 8.86 | 8.89 | . 03 |
| Service-producing ......................................................... | 32.9 | 32.9 | 0 | 11.66 | 11.67 | . 01 |
| Transportation and public utilities ..................................... | 39.5 | 39.6 | . 1 | 14.70 | 14.74 | . 04 |
| Wholesale trade | 38.5 | 38.5 | 0 | 13.28 | 13.29 | . 01 |
| Retail trade | 28.7 | 28.7 | 0 | 8.27 | 8.26 | -. 01 |
| Finance, insurance, and real estate .................................. | 36.5 | 36.5 | 0 | 13.20 | 13.22 | . 02 |
| Services ...................................................................... | 32.6 | 32.6 | 0 | 12.24 | 12.24 | 0 |

Table 5. Employment benchmarks for industries not published monthly, March 1990-97
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC Code } \end{gathered}$ | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total ... |  | 108,606 | 107,507 | 107,300 | 108,935 | 112,141 | 115,849 | 117,952 | 120,903 |
| Total Private |  | 90,038 | 88,790 | 88,347 | 89,790 | 92,730 | 96,175 | 98,158 | 101.040 |
| Goods-producing .............................................................. |  | 24,636 | 23,390 | 22,724 | 22,754 | 23,181 | 23,784 | 23,884 | 24,359 |
| Mining ................................................................................. |  | 691 | 695 | 634 | 603 | 592 | 576 | 566 | 580 |
| Lead and zinc ores ................................................................. | 103 | 2.6 | 2.5 | 2.5 | 2.5 | 2.4 | 2.4 | 2.4 | 2.4 |
| Gold and silver ores | 104 | 21.0 | 19.7 | 19.6 | 18.7 | 17.1 | 17.7 | 19.0 | 19.1 |
| Other metal ores and mining services | 106,8,9 | 10.0 | 9.0 | 7.3 | 5.8 | 5.9 | 6.2 | 6.8 | 7.5 |
| Bituminous coal and lignite-surface ............................................ | 1221 | 56.7 | 53.3 | 50.7 | 47.1 | 45.8 | 43.4 | 40.2 | 40.0 |
| Bituminous coal-underground .................................................... | 1222 | 79.8 | 75.9 | 68.3 | 63.3 | 59.4 | 56.2 | 50.6 | 50.4 |
| Anthracite mining and coal mining services ................................. | 123,4 | 9.4 | 9.1 | 8.5 | 7.4 | 7.2 | 7.4 | 6.7 | 6.0 |
| Natural gas liquids .................................. | 132 | 4.5 | 4.7 | 6.0 | 5.0 | 5.0 | 5.2 | 5.0 | 4.9 |
| Clay, ceramic, and refractory minerals | 145 | 8.5 | 7.4 | 7.5 | 7.5 | 7.4 | 7.7 | 7.5 | 7.5 |
| Dimension stone and other nonmetalic minerals .......................... | 141,8,9 | 10.6 | 10.2 | 9.1 | 9.3 | 9.3 | 10.0 | 10.4 | 10.9 |
| Construction |  | 4,846 | 4,356 | 4,117 | 4,177 | 4,497 | 4,748 | 4,952 | 5,260 |
| Bridge, tunnel, and elevated highway | 1622 | 45.4 | 41.4 | 42.5 | 42.4 | 39.6 | 43.6 | 43.1 | 44.8 |
| Water, sewer, and utility lines. | 1623 | 206.9 | 186.9 | 180.0 | 181.6 | 190.8 | 196.8 | 203.7 | 219.3 |
| Heavy construction, nec .. | 1629 | 249.8 | 248.1 | 243.4 | 228.3 | 239.0 | 246.8 | 253.9 | 255.4 |
| Masonry and other stonework | 1741 | 154.6 | 127.3 | 120.3 | 118.1 | 127.6 | 137.5 | 140.9 | 152.2 |
| Plastering, drywall, and insulation ............................................. | 1742 | 261.7 | 218.9 | 194.1 | 194.4 | 210.9 | 222.1 | 230.0 | 248.9 |
| Terrazzo, tile, marble, and mosaic work ...................................... | 1743 | 39.0 | 33.8 | 29.8 | 30.1 | 31.3 | 33.4 | 34.5 | 37.2 |
| Carpentry work | 1751 | 151.7 | 118.7 | 119.4 | 127.3 | 144.9 | 156.2 | 166.4 | 182.9 |
| Floor laying and floor work, nec .................................................... | 1752 | 48.8 | 46.2 | 43.8 | 46.6 | 49.9 | 53.1 | 54.5 | 58.8 |
| Concrete work | 177 | 195.9 | 161.6 | 161.2 | 166.0 | 185.9 | 208.1 | 221.4 | 239.8 |
| Water well drilling ................................................................... | 178 | 19.0 | 18.8 | 18.8 | 18.5 | 19.6 | 20.6 | 21.4 | 21.6 |
| Miscellaneous special trade contractors ...................................... | 179 | 500.0 | 469.6 | 436.9 | 442.3 | 482.2 | 511.9 | 531.7 | 568.1 |
| Structural steel erection | 1791 | 74.0 | 67.8 | 58.6 | 56.4 | 59.7 | 62.7 | 68.2 | 72.9 |
| Glass and glazing work ........................................................... | 1793 | 39.9 | 36.1 | 32.0 | 32.0 | 33.1 | 35.4 | 37.0 | 39.7 |
| Excavation work .................................................................... | 1794 | 108.4 | 94.1 | 90.2 | 93.0 | 101.5 | 111.0 | 116.4 | 126.0 |
| Wrecking, demolition, and other special trade contractors .............. | 1795,6,9 | 277.7 | 271.6 | 256.1 | 260.9 | 287.9 | 302.8 | 310.1 | 329.5 |
| Manufacturing ........................................................................ |  | 19,099 | 18,339 | 17,973 | 17,974 | 18,092 | 18,460 | 18,366 | 18,519 |
| Durable goods ...................................................................... |  | 11,185 | 10,580 | 10,247 | 10,192 | 10,307 | 10,644 | 10,689 | 10,894 |
| Lumber and wood products: |  |  |  |  |  |  |  |  |  |
| Special product sawmills, nec ............................................... | 2429 | 3.1 | 2.7 | 2.1 | 2.1 | $\begin{array}{r}1.9 \\ \hline 9\end{array}$ | ${ }^{1.6}$ | 1.8 | 1.9 36.8 |
| Structural wood members, nec | 2439 | 27.3 | 20.6 | 22.3 | 25.2 | 29.8 | 32.6 | 34.5 | 36.8 |
| Nailed wood boxes and shook. | 2441 | 4.4 | 4.2 | 3.8 | 3.9 | 3.8 | 3.8 | 3.9 | 4.0 |
| Wood pallets and skids | 2448 | 32.3 | 32.0 | 31.7 | 33.6 | 37.3 | 40.2 | 40.6 | 41.8 |
| Wood containers, nec. | 2449 | 8.2 | 7.8 | 7.4 | 7.2 | 7.4 | 7.1 | 7.6 | 7.3 |
| Prefabricated wood buildings | 2452 | 18.4 | 16.0 | 14.7 | 15.5 | 16.1 | 18.1 | 19.0 | 20.8 |
| Wood preserving ................ | 2491 | 12.6 | 11.9 | 11.1 | 11.1 | 11.5 | 11.5 | 11.6 | 11.8 |
| Reconstituted wood products | 2493 | 18.0 | 16.5 | 17.4 | 17.6 | 18.9 | 19.9 | 20.6 | 20.8 |
| Wood products, nec | 2499 | 55.7 | 52.3 | 51.8 | 54.4 | 5 n .6 | 55.8 | 54.7 | 56.5 |
| Furniture and fixtures: |  |  |  |  |  |  |  |  |  |
| Wood television and radio cabinets, and househoid furniture, nec $\qquad$ | 2517,9 | 13.6 | 12.0 | 13.5 | 13.0 | 12.5 | 11.6 | 11.5 | 12.4 |
| Wood office furniture .............................................................................................. | 2521 | 34.8 | 30.3 | 27.2 | 26.5 | 28.0 | 28.3 | 29.0 | 28.9 |
| Office furniture, except wood | 2522 | 34.3 | 32.1 | 33.6 | 32.9 | 33.1 | 34.3 | 32.8 | 33.4 |
| Wood partitions and fixtures | 2541 | 42.4 | 40.3 | 39.7 | 39.7 | 42.3 | 47.8 | 47.5 | 49.8 |
| Partitions and fixtures, except wood ........................................ | 2542 | 35.4 | 33.0 | 32.3 | 33.6 | 34.0 | 37.6 | 36.0 | 36.0 |
| Drapery hardware and blinds and shades ................................ | 2591 | 22.3 | 19.7 | 19.9 | 18.7 | 20.0 | 20.8 | 20.7 | 21.6 |
| Furniture and fixtures, nec .................................................... | 2599 | 15.0 | 14.0 | 14.6 | 15.5 | 16.0 | 16.3 | 16.9 | 17.1 |
| Stone, clay, and glass products: |  |  |  |  |  |  |  |  |  |
| Brick and structural clay tile ................................................... | 3251 | 15.8 | 13.9 | 13.3 | 14.0 | 13.7 | 14.3 | 13.5 | 13.5 |
| Clay refractories ................................................................. | 3255 | 7.0 | 6.4 | 5.8 | 5.8 | 5.8 | 7.2 | 7.6 | 7.4 |
| Ceramic tile and structural clay products, nec ........................... | 3253,9 | 13.3 | 11.7 | 10.8 | 11.9 | 12.1 | 13.0 | 11.4 | 13.3 |
| Vitreous plumbing fixtures .................................................... | 3261 | 9.1 | 8.6 | 8.9 | 9.4 | 10.0 | 10.6 | 9.9 | 10.1 |
| Vitreous and semivitreous table and kitchenware ...................... | 3262,3 | 5.5 | 4.9 | 5.4 | 5.0 | 5.1 | 5.4 | 5.6 | 5.9 |
| Porcelain electrical supplies | 3264 | 11.1 | 10.7 | 40.1 | 9.8 | 10.0 | 10.7 | 10.8 | 10.1 |
| Pottery products, nec ........................................................... | 3269 | 13.5 | 12.5 | 13.2 | 14.5 | 14.9 | 14.8 | 14.3 | 13.5 |
| Lime ... | 3274 | 5.3 | 5.0 | 5.0 | 4.9 | 4.8 | 5.1 | 5.1 | 5.0 |
| Gypsum products | 3275 | 13.5 | 12.0 | 11.6 | 11.8 | 11.9 | 12.2 | 12.6 | 12.7 |
| Cut stone and stone products | 328 | 15.0 | 14.0 | 13.6 | 13.1 | 13.6 | 13.1 | 13.8 | 14.7 |
| Minerals, ground or treated ... | 3295 | 13.0 | 13.4 | 12.7 | 12.2 | 12.3 | 12.3 | 12.8 | 12.5 |
| Nonclay refractories ........... | 3297 | 8.1 | 8.1 | 8.9 | 8.7 | 8.6 | 8.3 | 8.4 | 9.0 |
| Nonmetallic mineral products, nec ......................................... | 3299 | 8.9 | 8.6 | 7.4 | 8.3 | 9.3 | 9.9 | 9.6 | 10.3 |

See footnotes at end of table.

Table 5. Employment benchmarks for industries not published monthly, March 1990-97-Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC Code } \end{gathered}$ | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |
| Primary metal industries: |  |  |  |  |  |  |  |  |  |
| Electrometallurgical products | 3313 | 6.1 | 6.0 | 6.3 | 6.0 | 5.7 | 5.2 | 6.1 | 5.7 |
| Steel wire and related products .............................................. | 3315 | 18.4 | 16.9 | 16.4 | 17.1 | 18.2 | 19.3 | 20.8 | 21.0 |
| Cold finishing of steel shapes ................................................. | 3316 | 17.6 | 16.9 | 15.6 | 15.7 | 16.1 | 17.0 | 17.2 | 16.9 |
| Steet investment foundries | 3324 | 15.8 | 16.2 | 15.6 | 14.4 | 14.3 | 15.7 | 16.2 | 17.3 |
| Primary copper .................................................................... | 3331 | 5.5 | 5.3 | 5.7 | 5.4 | 5.8 | 5.9 | 4.4 | 4.5 |
| Primary nonferrous metals, nec .............................................. | 3339 | 14.5 | 14.5 | 12.9 | 12.4 | 11.9 | 11.8 | 12.1 | 12.3 |
| Secondary nonferrous metals ................................................. | 334 | 18.8 | 18.5 | 15.5 | 14.5 | 15.4 | 15.8 | 16.0 | 16.0 |
| Aluminum extruded products ................................................. | 3354 | 30.0 | 28.0 | 26.8 | 27.6 | 27.6 | 31.4 | 31.3 | 32.4 |
| Aluminum and nonferrous roiling and drawing, nec ................... | 3355,6 | 18.2 | 18.1 | 19.0 | 18.5 | 18.1 | 18.4 | 19.2 | 19.2 |
| Aluminum die-castings ......................................................... | 3363 | 27.6 | 26.2 | 28.9 | 30.4 | 31.7 | 36.6 | 37.6 | 38.4 |
| Nonterrous die-castings, except aluminum .............................. | 3364 | 13.0 | 11.5 | 10.5 | 10.9 | 11.1 | 11.1 | 10.6 | 11.1 |
| Copper tounderies ............................................................... | 3366 | 10.7 | 10.0 | 9.3 | 9.0 | 9.2 | 9.5 | 9.5 | 9.3 |
| Nonferrous foundries, nec ..................................................... | 3369 | 9.0 | 8.2 | 7.0 | 6.1 | 6.2 | 6.5 | 6.8 | 7.0 |
| Miscellaneous primary metal products .................................... | 339 | 27.2 | 26.2 | 25.9 | 26.5 | 27.5 | 28.5 | 29.2 | 30.1 |
| Metal heat treating .............................................................. | 3398 | 15.3 | 15.2 | 14.9 | 15.3 | 16.0 | 17.5 | 18.0 | 18.6 |
| Primary metal products, nec ................................................... | 3399 | 11.9 | 11.0 | 11.0 | 11.2 | 11.5 | 11.0 | 11.2 | 11.5 |
| Fabricated metal products: |  |  |  |  |  |  |  |  |  |
| Metal barrels, drums, and pails .............................................. | 3412 | 9.5 | 9.4 | 8.8 | 8.2 | 7.9 | 7.7 | 7.7 | 7.4 |
| Cutiery | 3421 | 12.1 | 11.8 | 11.6 | 11.4 | 11.9 | 11.8 | 12.4 | 12.6 |
| Metal sanitary ware | 3431 | 13.5 | 12.6 | 13.0 | 13.2 | 13.9 | 14.6 | 13.5 | 14.0 |
| Prefabricated metal buildings ................................................ | 3448 | 25.5 | 22.4 | 20.9 | 21.6 | 23.5 | 25.7 | 26.3 | 28.0 |
| Miscellaneous metal work | 3449 | 14.7 | 13.2 | 12.3 | 12.5 | 12.4 | 12.4 | 13.0 | 13.1 |
| Nonterrous forgings, crowns, and closures .............................. | 3463,6 | 12.1 | 11.1 | 11.9 | 11.2 | 11.1 | 11.6 | 12.0 | 12.9 |
| Small arms, small arms ammunition, and other ordnance and accessories, nec $\qquad$ | 3482,4,9 | 30.3 | 26.6 | 25.0 | 24.1 | 23.2 | 25.0 | 23.5 | 21.0 |
| Industrial valves | 3491 | 27.8 | 26.8 | 26.6 | 25.2 | 25.2 | 26.9 | 26.4 | 26.9 |
| Fluid power valves and hose fittings ........................................ | 3492 | 28.5 | 27.6 | 27.5 | 27.2 | 27.7 | 31.8 | 33.1 | 33.7 |
| Steel springs, except wire ...................................................... | 3493 | 6.0 | 5.6 | 4.8 | 4.8 | 5.1 | 5.6 | 5.5 | 5.6 |
| Wire springs ....................................................................... | 3495 | 13.1 | 12.1 | 13.0 | 13.5 | 14.1 | 15.3 | 14.5 | 14.7 |
| Fabricated pipe and fittings .................................................. | 3498 | 24.1 | 24.5 | 25.2 | 26.7 | 26.8 | 27.4 | 28.9 | 29.8 |
| Metal foil and leat, and fabricated metal products, nec ............... | 3497,9 | 55.5 | 54.5 | 50.2 | 55.5 | 58.0 | 62.6 | 65.1 | 67.0 |
| Industrial machinery and equipment: |  |  |  |  |  |  |  |  |  |
| Lawn and garden equipment ................................................. | 3524 | 30.6 | 26.7 | 27.1 | 27.2 | 28.4 | 30.4 | 29.7 | 30.5 |
| Elevators and moving stairways ............................................. | 3534 | 11.5 | 10.3 | 9.3 | 9.6 | 9.6 | 9.8 | 9.8 | 9.7 |
| Hoists, cranes, and monorails ................................................ | 3536 | 8.4 | 9.0 | 7.7 | 7.3 | 7.2 | 7.8 | 8.6 | 8.7 |
| Industrial patterns ................................................................ | 3543 | 9.0 | 8.7 | 8.2 | 8.1 | 8.4 | 8.8 | 8.3 | 8.0 |
| Welding apparatus ............................................................... | 3548 | 18.7 | 18.4 | 18.5 | 18.0 | 18.9 | 20.7 | 21.5 | 21.4 |
| Rolling mill and metalworking machinery, nec ........................... | 3547,9 | 12.7 | 12.4 | 12.7 | 13.1 | 13.3 | 15.2 | 16.3 | 17.1 |
| Woodworking machinery ...................................................... | 3553 | 9.8 | 8.4 | 8.0 | 8.7 | 9.9 | 11.3 | 11.1 | 10.6 |
| Paper industries machinery .................................................. | 3554 | 19.7 | 18.9 | 19.6 | 19.3 | 19.5 | 21.2 | 22.4 | 22.3 |
| Special industry machinery, nec .............................................. | 3559 | 62.3 | 60.8 | 60.0 | 60.4 | 62.4 | 71.8 | 82.1 | 82.0 |
| Packaging machinery .......................................................... | 3565 | 21.8 | 21.5 | 19.0 | 19.8 | 20.1 | 22.1 | 22.7 | 23.0 |
| Industrial furnaces and ovens | 3567 | 18.5 | 17.2 | 15.9 | 15.6 | 16.5 | 17.7 | 18.7 | 19.1 |
| General industrial machinery, nec .......................................... | 3569 | 39.8 | 39.6 | 40.0 | 40.8 | 42.8 | 44.3 | 46.2 | 48.4 |
| Computer storage devices .................................................... | 3572 | 35.0 | 38.2 | 35.6 | 38.0 | 37.6 | 40.3 | 43.2 | 43.1 |
| Computer peripheral equipment, nec ...................................... | 3577 | 58.0 | 58.7 | 55.3 | 53.0 | 57.9 | 60.0 | 71.0 | 72.8 |
| Automatic vending machines ................................................. | 3581 | 7.5 | 7.3 | 6.8 | 7.1 | 7.5 | 8.1 | 7.8 | 8.0 |
| Commercial laundry equipment ............................................. | 3582 | 5.8 | 5.7 | 5.3 | 5.5 | 5.8 | 6.2 | 6.1 | 5.9 |
| Measuring and dispensing pumps, and service industry machinery, nec $\qquad$ | 3586,9 | 43.2 | 41.6 | 41.9 | 42.9 | 45.8 | 48.6 | 47.9 | 47.5 |
| Fluid power cylinders and actuators ........................................ | 3593 | 19.4 | 18.4 | 16.4 | 16.3 | 17.1 | 18.5 | 18.8 | 18.6 |
| Fluid power pumps and motors ............................................. | 3594 | 29.3 | 28.7 | 27.4 | 26.3 | 25.4 | 26.2 | 26.8 | 27.0 |
| Electronic and other electrical equipment: |  |  |  |  |  |  |  |  |  |
| Carbon and graphite products ............................................... | 3624 | 10.9 | 10.2 | 9.4 | 9.3 | 9.5 | 10.0 | 10.2 | 10.1 |
| Electrical industrial apparatus, nec ......................................... | 3629 | 9.1 | 9.3 | 9.6 | 9.5 | 9.2 | 9.7 | 10.1 | 10.0 |
| Household cooking equipment .............................................. | 3631 | 20.6 | 18.0 | 17.6 | 21.1 | 21.8 | 23.3 | 22.6 | 23.1 |
| Household vacuum cleaners and appliances, nec ..................... | 3635,9 | 25.0 | 21.6 | 25.6 | 25.6 | 25.5 | 23.8 | 24.6 | 24.1 |
| Commercial lighting fixtures .................................................. | 3646 | 22.9 | 22.2 | 22.0 | 22.8 | 23.6 | 25.8 | 24.7 | 25.0 |
| Vehicular lighting equipment ................................................... | 3647 | 18.5 | 17.5 | 17.5 | 17.6 | 16.8 | 18.0 | 17.8 | 18.5 |
| Lighting equipment, nec | 3648 | 10.6 | 10.0 | 9.4 | 10.0 | 10.6 | 12.6 | 12.6 | 13.3 |
| Prerecorded records and tapes ............................................. | 3652 | 21.0 | 23.2 | 21.6 | 23.4 | 25.1 | 26.9 | 28.2 | 26.9 |
| Radio and television communications equipment ...................... | 3663 | 112.9 | 111.0 | 106.0 | 102.9 | 107.8 | 122.2 | 126.5 | 125.7 |

See footnotes at end of table.

Table 5. Employment benchmarks for industries not published monthly, March 1990-97-Continued
(In thousands)

| Industry | 1987 SIC Code | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |
| Electronic and other electrical equipment-Continued |  |  |  |  |  |  |  |  |  |
| Communications equipment, nec ........................................... | 3669 | 24.1 | 24.4 | 23.2 | 24.8 | 25.0 | 28.0 | 29.2 | 29.3 |
| Printed circuit boards ............................................................ | 3672 | 101.7 | 99.2 | 92.2 | 99.8 | 100.6 | 114.8 | 126.7 | 132.5 |
| Electronic capacitors | 3675 | 22.0 | 20.2 | 18.4 | 19.6 | 19.4 | 20.9 | 21.3 | 20.1 |
| Electronic resistors | 3676 | 12.6 | 11.5 | 11.0 | 10.1 | 10.4 | 10.6 | 10.8 | 10.3 |
| Electronic coils and transformers | 3677 | 19.1 | 17.9 | 17.1 | 17.4 | 16.8 | 18.9 | 18.9 | 18.6 |
| Electronic connectors | 3678 | 15.5 | 15.9 | 16.2 | 15.6 | 15.9 | 16.9 | 18.4 | 19.7 |
| Primary batteries, dry and wet | 3692 | 10.7 | 10.8 | 12.1 | 11.3 | 11.5 | 11.9 | 12.0 | 12.0 |
| Magnetic and optical recording media, and electrical equipment and supplies, nec $\qquad$ | 3695,9 | 56.3 | 55.9 | 49.7 | 49.2 | 49.9 | 47.0 | 45.9 | 45.5 |
| Transportation equipment: |  |  |  |  |  |  |  |  |  |
| Motor homes. | 3716 | 17.8 | 14.2 | 17.2 | 18.5 | 19.6 | 20.6 | 18.2 | 19.3 |
| Motorcycles, bicycles, and parts | 375 | 13.2 | 14.7 | 15.8 | 17.1 | 18.0 | 20.9 | 22.3 | 21.4 |
| Space propulsion units and parts, and space vehicle equipment, nec $\qquad$ | 3764,9 | 54.0 | 49.5 | 42.4 | 36.4 | 32.5 | 29.7 | 28.0 | 28.0 |
| Tanks and tank components ................................................. | 3795 | 15.1 | 14.3 | 12.8 | 11.1 | 9.7 | 8.7 | 7.3 | 6.5 |
| Transportation equipment, nec ................................................ | 3799 | 14.0 | 12.6 | 14.9 | 16.3 | 19.3 | 22.2 | 23.9 | 25.3 |
| instruments and related products: |  |  |  |  |  |  |  |  |  |
| Laboratory apparatus and furniture ......................................... | 3821 | 8.8 | 8.8 | 9.6 | 10.2 | 9.9 | 9.6 | 10.2 | 10.1 |
| Fluid meters and counting devices ......................................... | 3824 | 12.1 | 12.0 | 12.4 | 12.4 | 12.5 | 11.9 | 11.9 | 11.6 |
| Analytical instruments. | 3826 | 30.5 | 28.6 | 28.5 | 28.0 | 27.3 | 27.7 | 30.0 | 31.1 |
| Optical instruments and lenses | 3827 | 20.2 | 19.4 | 18.8 | 17.4 | 18.4 | 18.1 | 20.1 | 21.9 |
| Measuring and controlling devices, nec | 3829 | 45.3 | 45.7 | 42.6 | 40.4 | 38.3 | 40.6 | 41.2 | 41.4 |
| Dental equipment and supplies ............................................. | 3843 | 13.0 | 13.0 | 12.8 | 13.8 | 14.2 | 13.8 | 14.5 | 14.2 |
| X-ray apparatus and tubes | 3844 | 10.4 | 11.4 | 10.7 | 10.8 | 10.8 | 12.7 | 12.7 | 12.9 |
| Electromedical equipment ..................................................... | 3845 | 28.4 | 31.8 | 37.6 | 38.4 | 41.7 | 41.9 | 42.7 | 44.3 |
| Miscellaneous manufacturing industries: |  |  |  |  |  |  |  |  |  |
| Silverware and plated ware .................................................. | 3914 | 6.7 | 6.5 | 6.3 | 6.2 | 6.1 | 6.5 | 6.1 | 6.0 |
| Jewelers'materials and lapidary work | 3915 | 7.1 | 6.6 | 6.8 | 7.0 | 7.0 | 6.3 | 6.2 | 6.3 |
| Pens and mechanical pencils | 3951 | 9.2 | 8.7 | 8.0 | 8.7 | 8.3 | 9.0 | 9.0 | 9.0 |
| Lead pencils and art goods ............... | 3952 | 7.3 | 7.2 | 7.7 | 7.8 | 7.5 | 7.5 | 7.2 | 7.4 |
| Marking devices, carbon paper, and inked ribbons | 3953,5 | 17.7 | 17.3 | 17.2 | 16.8 | 17.1 | 15.0 | 15.0 | 14.8 |
| Fasteners, buttons, needles, and pins | 3965 | 12.1 | 11.8 | 11.9 | 11.4 | 11.3 | 11.0 | 10.4 | 10.1 |
| Brooms and brushes | 3991 | 13.5 | 13.2 | 13.3 | 14.1 | 14.1 | 14.6 | 14.2 | 14.2 |
| Burial caskets ................................................................... | 3995 | 9.0 | 9.0 | 8.9 | 8.9 | 9.2 | 9.1 | 8.8 | 8.7 |
| Hard suriace floor coverings and manufacturing industries, nec .. | 3996,9 | 58.9 | 57.7 | 54.6 | 57.7 | 61.1 | 62.6 | 63.1 | 66.6 |
| Nondurable goods $\qquad$ Food and kindred products: |  | 7,914 | 7,759 | 7,726 | 7,782 | 7,785 | 7,816 | 7,677 | 7,625 |
| Creamery butter. | 2021 | 2.1 | 2.0 | 1.9 | 2.1 | 2.1 | 2.0 | 1.9 | 1.8 |
| Dry, condensed, and evaporated products ............................... | 2023 | 15.7 | 17.1 | 17.3 | 17.6 | 17.7 | 16.6 | 16.4 | 16.2 |
| Ice cream and frozen desserts .............................................. | 2024 | 21.1 | 21.5 | 21.4 | 23.0 | 22.9 | 23.3 | 22.4 | 21.9 |
| Dehydrated fruits, vegetables, and soups ................................ | 2034 | 17.9 | 17.1 | 15.0 | 16.0 | 16.4 | 15.8 | 15.5 | 16.5 |
| Pickles, sauces, and salad dressings ...................................... | 2035 | 19.3 | 20.1 | 21.1 | 20.9 | 21.3 | 21.4 | 22.4 | 20.8 |
| Frozen specialties, nec | 2038 | 42.5 | 44.5 | 48.8 | 49.7 | 50.0 | 52.6 | 51.4 | 51.3 |
| Cereal breakfast foods | 2043 | 19.9 | 18.9 | 18.4 | 19.8 | 19.8 | 19.5 | 19.7 | 18.3 |
| Rice milling ....... | 2044 | 5.6 | 5.5 | 4.8 | 4.6 | 4.9 | 5.0 | 5.0 | 5.0 |
| Prepared flour mixes and doughs | 2045 | 9.4 | 11.0 | 11.5 | 13.0 | 13.9 | 13.3 | 13.2 | 13.5 |
| Wet corn milling | 2046 | 9.1 | 9.6 | 10.0 | 9.7 | 9.5 | 9.8 | 10.1 | 10.1 |
| Dog and cat food | 2047 | 16.0 | 16.3 | 16.9 | 18.0 | 18.3 | 18.1 | 19.1 | 19.4 |
| Chocolate and cocoa products and chewing gum | 2066,7 | 20.2 | 21.4 | 19.3 | 19.3 | 19.0 | 18.4 | 17.4 | 17.4 |
| Salted and roasted nuts and seeds ........ | 2068 | 6.9 | 7.7 | 9.5 | 9.0 | 8.1 | 8.4 | 8.2 | 8.0 |
| Cottonseed, soybean, and vegetable oil mills | 2074,5,6 | 13.0 | 13.2 | 13.3 | 12.9 | 13.1 | 13.2 | 12.9 | 13.4 |
| Animal and marine fats and oils | 2077 | 8.2 | 7.6 | 7.5 | 7.6 | 7.7 10.7 | 7.7 | 8.0 | 8.3 |
| Edible fats and oils, nec ............. | 2079 | 10.1 | 9.9 | 10.2 | 11.2 | 10.7 | 9.7 | 9.5 | 9.8 |
| Wines, brandy, and brandy spirits .......................................... | 2084 | 15.1 | 16.0 | 16.1 | 17.0 | 16.8 | 17.4 | 18.8 | 20.8 |
| Distilled and blended liquors ..................... | 2085 | 8.5 | 9.2 | 8.5 | 8.7 | 8.3 | 8.2 | 7.8 | 7.7 |
| Malt and flavoring extracts and syrups, nec | 2083,7 | 18.0 | 17.5 | 17.5 | 17.9 | 19.0 | 20.2 | 21.3 | 21.7 |
| Canned and cured fish and seafoods | 2091 | 9.4 | 9.4 | 8.5 | 8.1 | 8.6 | 7.5 | 7.2 | 7.6 |
| Fresh or frozen packaged fish | 2092 | 42.2 | 43.3 | 45.4 | 47.3 | 45.0 | 43.9 | 45.9 | 45.9 |
| Roasted coffee | 2095 | 11.9 | 11.6 | 11.6 | 10.4 | 10.7 | 9.7 | 9.8 | 10.4 |
| Potato chips and similar snacks | 2096 | 34.5 | 35.3 | 35.5 | 35.2 | 35.0 | 35.0 | 33.2 | 32.5 |
| Manufactured ice | 2097 | 5.2 | 5.5 | 5.4 | 5.6 | 5.7 | 5.7 | 5.9 | 5.9 |
| Macaroni and spaghetti | 2098 | 8.6 | 8.5 | 8.2 | 8.9 | 8.8 | 8.5 | 8.5 | 8.1 |
| Food preparations, nec | 2099 | 61.6 | 62.7 | 62.1 | 65.7 | 68.7 | 66.1 | 72.1 | 71.2 |
| Tobacco products: |  |  |  |  |  |  |  |  |  |
| Cigars ................................................................................ | 212 | 2.8 | 2.7 | 2.4 | 2.4 | 2.2 | 2.2 | 2.7 | 3.1 |
| Other tobacco products ......................................................... | 213,4 | 10.1 | 9.7 | 10.5 | 10.1 | 9.6 | 9.2 | 9.9 | 9.7 |

See footnotes at end of table.

Table 5. Employment benchmarks for industries not published monthly, March 1990-97-Continued
(in thousands)

|  |  |  |  |  |
| :--- | :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  |  |  |  |

See footnotes at end of table.

Table 5. Employment benchmarks for industries not published monthly, March 1990-97-Continued
(In thousands)

| Industry | 1987 SIC Code | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nondurable goods-Continued Rubber and miscellaneous plastics products: |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Gaskets, packing and sealing devices .................................... | 3053 | 34.7 | 33.9 | 35.1 | 36.0 | 37.6 | 40.5 | 39.8 | 40.4 |
| Mechanical rubber goods ..................................................... | 3061 | 46.9 | 44.2 | 44.6 | 45.9 | 47.9 | 50.5 | 50.4 | 51.3 |
| Fabricated rubber products, nec ............................................. | 3069 | 57.7 | 55.6 | 56.6 | 57.0 | 58.7 | 61.2 | 62.2 | 60.8 |
| Unsupported plastics film and sheet | 3081 | 54.4 | 55.2 | 55.9 | 56.3 | 57.5 | 61.6 | 62.3 | 62.8 |
| Unsupported plastics profile shapes ........................................ | 3082 | 27.9 | 25.4 | 23.7 | 23.9 | 25.4 | 23.6 | 23.8 | 24.2 |
| Laminated plastics plate and sheet ........................................ | 3083 | 20.0 | 20.2 | 20.2 | 21.6 | 21.9 | 22.6 | 23.4 | 24.1 |
| Plastics pipe ............................. | 3084 | 16.1 | 14.7 | 13.9 | 14.3 | 15.4 | 16.7 | 16.3 | 18.3 |
| Plastics bottles | 3085 | 30.4 | 29.7 | 30.2 | 31.1 | 31.6 | 33.1 | 32.2 | 32.4 |
| Plastics foam products | 3086 | 52.0 | 48.4 | 49.5 | 50.7 | 53.4 | 55.1 | 55.6 | 58.4 |
| Custom compound purchased resins ...................................... | 3087 | 25.3 | 23.3 | 22.3 | 23.4 | 24.6 | 26.1 | 26.2 | 25.6 |
| Plastics plumbing fixtures and plastic products, nec ................... | 3088,9 | 399.3 | 385.4 | 397.6 | 422.9 | 445.6 | 475.0 | 468.1 | 480.9 |
| Leather and leather products: |  |  |  |  |  |  |  |  |  |
| Footwear cut stock | 313 | 6.3 | 5.4 | 4.8 | 4.2 | 3.4 | 2.9 | 2.0 | 2.1 |
| House slippers ................................................................... | 3142 | 4.2 | 3.7 | 3.2 | 2.8 | 3.1 | 3.4 | 2.6 | 2.3 |
| Footwear, except rubber, nec ................................................. | 3149 | 10.1 | 9.6 | 8.1 | 7.6 | 7.2 | 6.8 | 5.7 | 5.6 |
| Leather gloves and mittens | 315 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 | 2.8 | 2.5 | 2.6 |
| Women's handbags and purses | 3171 | 6.0 | 4.9 | 4.7 | 5.1 | 5.1 | 4.7 | 4.3 | 3.5 |
| Personal leather goods, nec .................................................. | 3172 | 9.1 | 8.4 | 7.4 | 7.2 | 7.0 | 6.9 | 6.7 | 6.4 |
| Leather goods, nec .............................................................. | 319 | 10.2 | 9.6 | 9.7 | 9.9 | 10.7 | 12.0 | 12.7 | 12.5 |
| Service-producing ................................................................. |  | 83,970 | 84,117 | 84,576 | 86,181 | 88,960 | 92,065 | 94,068 | 96,544 |
| Transportation and public utilities ......................................... |  | 5,713 | 5,707 | 5,655 | 5,720 | 5,890 | 6,066 | 6,159 | 6,331 |
| Transportation: | 4013 | 38.8 | 32.2 | 32.1 | 31.9 | 26.9 | 26.2 | 25.6 | 24.3 |
| Bus charter service, and bus terminal and service facilities ......... | 414,7 | 27.2 | 27.4 | 27.7 | 28.6 | 29.3 | 30.1 | 31.9 | 33.0 |
| Local trucking, without storage | 4212 | (1) | (1) | (1) | 407.7 | 432.8 | 442.4 | 450.7 | 460.4 |
| Trucking, except local ........................................................... | 4213 | (1) | (1) | (1) | 731.3 | 764.8 | 804.7 | 819.4 | 829.4 |
| Local trucking, with storage .................................................. | 4214 | (1) | (1) | (1) | 64.3 | 67.4 | 70.1 | 71.4 | 72.3 |
| Courier services, except by air | 4215 | (1) | (1) | (1) | 64.4 | 83.7 | 96.3 | 102.5 | 107.0 |
| General warehousing and storage ......................................... | 4225 | 64.5 | 66.5 | 70.2 | 72.3 | 79.5 | 84.0 | 88.7 | 93.2 |
| Warehousing and storage, nec | 4221,2,6 | 49.3 | 49.5 | 49.2 | 50.9 | 53.2 | 55.5 | 57.4 | 59.3 |
| Trucking terminal facilities | 423 | 4.0 | 3.9 | 3.5 | 4.1 | 4.2 | 4.1 | 4.8 | 5.2 |
| Deep sea and Great Lakes freight transporation ...................... | 441,2,3 | 31.6 | 32.4 | 34.2 | 30.3 | 29.3 | 28.2 | 26.3 | 25.6 |
| Water transportation of passengers ....................................... | 448 | 14.3 | 15.0 | 15.5 | 15.0 | 16.5 | 16.3 | 16.7 | 17.7 |
| Marine cargo handling | 4491 | 53.8 | 57.6 | 56.8 | 53.3 | 55.2 | 59.3 | 55.0 | 57.8 |
| Marinas .................... | 4493 | 17.2 | 17.2 | 16.8 | 17.1 | 17.8 | 18.2 | 19.2 | 20.2 |
| Towing, tugboat, and water transportation services, nec ............ | 4492,9 | 35.9 | 36.8 | 33.5 | 33.0 | 35.2 | 35.5 | 35.5 | 38.2 |
| Air courier services | 4513 | 308.8 | 315.3 | 324.6 | 341.7 | 361.4 | 411.0 | 446.8 | 460.5 |
| Air transportation, nonscheduled | 452 | 26.0 | 27.5 | 28.5 | 30.2 | 34.0 | 40.1 | 42.1 | 43.1 |
| Tour operators | 4725 | 22.8 | 21.6 | 23.6 | 24.9 | 27.4 | 29.5 | 31.5 | 33.4 |
| Passenger transport arrangement, nec | 4729 | 14.9 | 13.9 | 12.1 | 12.0 | 11.5 | 11.7 | 11.7 | 12.3 |
| Rental of railroad cars | 474 | 5.7 | 5.6 | 4.7 | 4.4 | 4.7 | 4.9 | 4.9 | 4.9 |
| Miscellaneous transportation services ..................................... | 478 | 20.2 | 23.3 | 24.3 | 27.8 | 32.1 | 35.9 | 38.2 | 40.9 |
| Communications and public utilities: |  |  |  |  |  |  |  |  |  |
| Radiotelephone communications ........................................... | 4812 | 36.5 | 44.2 | 50.7 | 59.6 | 74.3 | 95.6 | 117.3 | 144.1 |
| Telegraph and other communications .................................... | 482 | 12.0 | 10.4 | 8.7 | 7.0 | 7.2 | 8.5 | 8.2 | 9.0 |
| Communications services, nec | 489 | 25.3 | 23.3 | 17.2 | 17.7 | 17.2 | 17.8 | 19.8 | 21.4 |
| Water supply ...................................................................... | 494 | 25.1 | 25.8 | 25.7 | 26.3 | 26.6 | 27.6 | 28.3 | 28.2 |
| Steam and air-conditioning supply, and irrigation systems ......... | 496,7 | 4.6 | 4.6 | 4.2 | 3.6 | 3.7 | 3.7 | 3.8 | 3.7 |
| Wholesale trade .................................................................... |  | 6,126 | 6,050 | 5,993 | 5,903 | 6,047 | 6,316 | 6,396 | 6,567 |
| Tires and tubes ..................................................................... | 5014 | 30.3 | 28.4 | 28.4 | 28.6 | 29.0 | 29.7 | 30.0 | 30.5 |
| Motor vehicle parts, used ....................................................... | 5015 | 39.5 | 39.8 | 39.5 | 40.0 | 42.0 | 43.6 | 44.5 | 46.5 |
| Brick, stone, and related materials ........................................... | 5032 | 38.9 | 37.0 | 37.4 | 37.6 | 39.7 | 44.8 | 46.5 | 49.6 |
| Roofing, siding, and insulation ................................................. | 5033 | 27.0 | 25.8 | 25.9 | 27.0 | 28.2 | 31.1 | 32.2 | 34.4 |
| Photographic equipment and supplies ..................................... | 5043 | 30.8 | 30.7 | 28.9 | 27.5 | 27.6 | 26.7 | 24.7 | 22.7 |
| Commercial equipment, nec .................................................... | 5046 | 51.5 | 50.8 | 49.7 | 50.4 | 51.1 | 54.1 | 54.4 | 55.5 |
| Ophthalmic goods. | 5048 | 20.3 | 20.1 | 20.7 | 19.9 | 20.3 | 21.2 | 21.7 | 21.8 |
| Proiessional equipment, nec | 5049 | 35.6 | 34.3 | 35.8 | 35.0 | 34.8 | 35.8 | 35.3 | 35.8 |
| Warm air heating and air-conditioning | 5075 | 52.5 | 51.7 | 51.6 | 52.0 | 54.5 | 57.2 | 59.0 | 60.7 |
| Refrigeration equipment and supplies ...................................... | 5078 | 13.4 | 13.3 | 12.9 | 12.7 | 13.5 | 13.3 | 13.8 | 13.9 |
| Service establishment equipment ............................................. | 5087 | 81.6 | 82.0 | 80.5 | 76.4 | 78.5 | 81.9 | 83.8 | 84.7 |
| Transportation equipment and supplies | 5088 | 38.6 | 39.2 | 38.9 | 35.3 | 34.6 | 36.1 | 37.4 | 38.5 |
| Sporting and recreational goods ............................................... | 5091 | 42.5 | 41.7 | 43.1 | 40.7 | 43.6 | 46.4 | 46.7 | 47.8 |

See footnotes at end of table.

Table 5. Employment benchmarks for industries not published monthly, March 1990-97-Continued
(In thousands)

| Incustry | 1987 SIC Code | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wholesale trade-Continued |  |  |  |  |  |  |  |  |  |
| Toys and hobby goods and supplies ......................................... | 5092 | 23.9 | 23.1 | 24.1 | 25.0 | 26.2 | 27.8 | 27.5 | 28.2 |
| Jewelry and precious stones .................................................... | 5094 | 48.3 | 47.9 | 48.0 | 48.5 | 49.1 | 48.0 | 47.9 | 48.3 |
| Wholesale trade durable goods, nec | 5099 | 67.7 | 69.2 | 69.4 | 64.2 | 69.1 | 76.7 | 77.3 | 82.5 |
| Printing and writing paper ...................................................... | 5111 | 25.6 | 25.0 | 23.9 | 23.1 | 22.4 | 23.2 | 23.5 | 23.6 |
| Industry and personal service paper ......................................... | 5113 | 86.8 | 86.4 | 84.4 | 86.0 | 86.7 | 85.5 | 87.7 | 87.8 |
| Piece goods and notions ....................................................... | 5131 | 51.8 | 51.2 | 52.5 | 52.6 | 51.8 | 53.9 | 51.8 | 51.5 |
| Men's and boys'clothing ........................................................ | 5136 | 43.4 | 42.4 | 44.4 | 47.1 | 48.2 | 51.2 | 50.2 | 50.6 |
| Women's and chiidren's clothing .............................................. | 5137 | 84.9 | 80.9 | 85.8 | 81.8 | 84.2 | 90.1 | 86.8 | 89.7 |
| Footwear | 5139 | 21.2 | 21.5 | 22.0 | 22.7 | 23.8 | 25.9 | 25.0 | 26.6 |
| Packaged frozen focds | 5142 | 33.3 | 34.5 | 35.3 | 35.2 | 35.5 | 36.4 | 37.8 | 37.5 |
| Dairy products, except dried or canned | 5143 | 49.6 | 46.8 | 46.3 | 45.0 | 45.5 | 44.9 | 43.6 | 42.8 |
| Poultry and poultry products ............... | 5144 | 20.4 | 19.8 | 18.7 | 17.5 | 17.1 | 17.4 | 16.4 | 16.1 |
| Contectionery | 5145 | 48.1 | 48.5 | 49.8 | 50.6 | 52.1 | 54.4 | 55.2 | 57.0 |
| Fish and seatoods | 5146 | 31.0 | 29.3 | 28.7 | 27.3 | 27.9 | 29.0 | 29.2 | 28.6 |
| Groceries and related products, nec | 5149 | 225.1 | 231.3 | 236.5 | 231.8 | 242.6 | 258.4 | 263.4 | 272.2 |
| Grain and field beans | 5153 | 65.4 | 63.2 | 63.3 | 59.9 | 59.8 | 60.0 | 58.8 | 58.1 |
| Livestock | 5154 | 35.3 | 35.4 | 35.1 | 34.7 | 34.8 | 33.6 | 31.4 | 30.9 |
| Farm-product raw materials, nec | 5159 | 17.3 | 16.7 | 16.2 | 15.6 | 15.6 | 15.5 | 14.2 | 14.8 |
| Plastics materials and basic shapes | 5162 | 24.9 | 24.5 | 25.6 | 26.5 | 27.2 | 29.2 | 30.0 | 31.3 |
| Chemicals and allied products, nec .......................................... | 5169 | 110.8 | 113.0 | 113.2 | 114.9 | 113.9 | 117.6 | 117.7 | 119.7 |
| Books, periodicals, and newspapers | 5192 | 69.1 | 70.7 | 72.0 | 73.8 | 77.8 | 84.0 | 85.5 | 84.0 |
| Flowers and florists'supplies | 5193 | 49.4 | 50.2 | 51.1 | 49.7 | 51.6 | 56.1 | 56.3 | 59.0 |
| Tobacco and tobacco products | 5194 | 45.8 | 45.5 | 48.3 | 48.6 | 45.9 | 45.2 | 43.6 | 41.9 |
| Paints, varnishes, and supplies | 5198 | 29.8 | 29.2 | 28.0 | 28.2 | 28.5 | 30.0 | 30.4 | 29.9 |
| Wholesale trade nondurable goods, nec ................................... | 5199 | 125.5 | 127.3 | 136.6 | 125.3 | 134.6 | 147.9 | 146.8 | 159.5 |
| Retail trade |  | 19,216 | 18,934 | 18,855 | 19,133 | 19,857 | 20,627 | 21,023 | 21,467 |
| Mobile home dealers | 527 | 25.9 | 23.7 | 23.6 | 25.1 | 28.6 | 33.4 | 36.7 | 41.3 |
| Fruit and vegetable markets | 543 | 21.3 | 22.0 | 23.2 | 22.3 | 24.0 | 25.3 | 25.2 | 25.8 |
| Candy, nut, and confectionery stores | 544 | 30.1 | 30.9 | 28.2 | 29.2 | 29.0 | 28.5 | 29.8 | 30.8 |
| Miscellaneous food stores | 549 | 41.1 | 43.1 | 44.9 | 49.1 | 56.2 | 64.8 | 72.7 | 82.8 |
| Used car dealers | 552 | 61.2 | 61.3 | 62.2 | 63.1 | 70.4 | 77.1 | 83.0 | 89.8 |
| Boat dealers | 555 | 36.7 | 30.7 | 29.0 | 28.1 | 29.8 | 32.6 | 33.9 | 35.4 |
| Recreational vehicle dealers | 556 | 21.2 | 19.1 | 19.7 | 20.5 | 22.7 | 24.4 | 25.6 | 26.3 |
| Motorcycle dealers | 557 | 24.1 | 23.4 | 23.4 | 23.4 | 25.9 | 28.7 | 30.3 | 31.9 |
| Women's accessory and specialty stores | 563 | 50.5 | 49.8 | 50.0 | 51.5 | 53.6 | 53.6 | 50.7 | 50.5 |
| Children's and infants'wear stores | 564 | 33.3 | 32.9 | 32.5 | 33.0 | 34.6 | 38.2 | 39.3 | 39.5 |
| Miscellaneous apparel and accessory stores | 569 | 71.5 | 77.6 | 78.0 | 78.6 | 82.6 | 85.6 | 86.7 | 89.6 |
| Floor covering stores | 5713 | 78.8 | 75.0 | 74.5 | 76.3 | 78.8 | 83.1 | 82.1 | 84.5 |
| Drapery, upholstery, and miscellaneous home furnishings ........... | 5714,9 | 98.9 | 95.0 | 95.1 | 96.7 | 104.3 | 110.7 | 114.8 | 124.0 |
| Computer and software stores ................................................ | 5734 | 72.8 | 75.3 | 78.9 | 80.3 | 86.8 | 97.1 | 104.6 | 118.1 |
| Musical instrument stores | 5736 | 26.7 | 26.2 | 26.3 | 26.8 | 27.9 | 29.4 | 30.2 | 31.3 |
| Hobby, toy, and game shops | 5945 | 90.9 | 89.9 | 93.4 | 90.3 | 96.7 | 102.6 | 107.1 | 107.9 |
| Camera, luggage, and leather goods stores .............................. | 5946,8 | 40.5 | 38.9 | 37.8 | 36.7 | 36.1 | 36.7 | 37.3 | 37.9 |
| Direct selling establishments .................................................. | 5963 | 53.2 | 55.2 | 52.4 | 51.7 | 51.7 | 54.2 | 53.3 | 53.8 |
| Finance, insurance, and real estate ......................................... |  | 6,650 | 6,656 | 6,534 | 6,633 | 6,883 | 6,770 | 6,815 | 6,988 |
| Central reserve depositories ............. | 601 | 26.7 | 27.3 | 27.0 | 26.0 | 26.3 | 25.8 | 25.6 | 25.2 |
| Foreign banks and branches and agencies ............................... | 608 | 28.0 | 29.3 | 34.2 | 34.4 | 32.9 | 32.8 | 32.3 | 30.5 |
| Functions closely related to banking ........................................ | 609 | 57.4 | 60.3 | 60.4 | 62.5 | 66.6 | 68.4 | 71.6 | 77.4 |
| Federal and federally sponsored credit agencies | 611 | 11.1 | 12.1 | 16.2 | 17.8 | 19.9 | 21.5 | 20.8 | 21.3 |
| Short-term business credit .................... | 6153 | 43.9 | 50.7 | 49.1 | 49.6 | 53.4 | 56.5 | 63.0 | 68.9 |
| Miscellaneous business credit institutions | 6159 | 35.0 | 35.0 | 32.4 | 31.5 | 33.6 | 34.0 | 38.5 | 42.7 |
| Investment advice ... | 6282 | 48.3 | 54.0 | 55.2 | 62.7 | 72.5 | 74.9 | 81.0 | 94.7 |
| Security and commodity services, nec | 6289 | 26.6 | 27.2 | 25.8 | 24.0 | 24.6 | 24.3 | 25.3 | 27.1 |
| Bank holding companies | 6712 | 28.0 | 28.6 | 25.2 | 27.8 | 27.7 | 28.8 | 29.1 | 27.1 |
| Holding companies, nec | 6719 | 82.2 | 82.0 | 74.9 | 75.8 | 76.1 | 73.4 | 75.0 | 78.0 |
| Trusts | 673 | 63.6 | 76.1 | 76.5 | 68.2 | 71.0 | 65.9 | 43.0 | 45.4 |
| Investment offices and miscellaneous investing | 672,9 | 41.1 | 42.1 | 42.1 | 48.1 | 54.6 | 56.2 | 60.9 | 66.0 |
| Accident and health insurance | 6321 | 54.9 | 55.9 | 61.5 | 61.0 | 61.7 | 61.1 | 61.2 | 62.4 |
| Pension, health, and welfare funds ....... | 637 | 37.4 | 38.9 | 39.4 | 39.4 | 41.8 | 42.4 | 43.4 | 44.8 |
| Surety insurance and insurance carriers, nec | 635,9 | 15.4 | 16.7 | 17.8 | 18.8 | 19.9 | 20.5 | 21.3 | 22.5 |
| Title abstract offices | 654 | 30.4 | 28.3 | 30.4 | 32.1 | 37.5 | 29.7 | 31.5 | 32.1 |

See footnotes at end of table.

Table 5. Employment benchmarks for industries not published monthly, March 1990-97-Continued
(In thousands)

| Industry | $1987$ <br> SIC Cade | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Services |  | 27,697 | 28,053 | 28,586 | 29,647 | 30,872 | 32,612 | 33,881 | 35,328 |
| Agricultural services: |  |  |  |  |  |  |  |  |  |
| Animal services, except veterinary ......................................... | 075 | 41.8 | 43.5 | 40.9 | 42.8 | 45.2 | 45.4 | 47.2 | 49.4 |
| Hotels and other lodging places: |  |  |  |  | 23.4 | 23.7 | 253 | 26.4 | 25.8 |
| Camps and recreational vehicle parks .................................... | 703 | 23.3 | 22.0 | 22.8 | 23.4 | 23.7 | 25.3 | 26.4 | 25.8 |
| Rooming and boarding houses, and membership-basis organization hotels $\qquad$ | 702,4 | 17.8 | 17.9 | 17.1 | 17.3 | 16.9 | 17.2 | 17.7 | 16.8 |
| Personal services: |  |  |  |  |  |  |  |  |  |
| Power laundries and garment pressing and cleaners agents ...... | 7211,2 | (1) | (1) | (1) | 58.4 | 52.9 | 53.2 | 51.1 | 49.0 |
| Linen supply ...................................................................... | 7213 | (1) | (1) | (1) | 63.5 | 63.2 | 64.5 | 66.3 | 68.2 |
| Drycleaning plants and carpet and upholstery deaning. except rugs $\qquad$ | 7216,7 | (1) | (1) | (1) | 191.5 | 197.4 | 203.3 | 204.2 | 207.8 |
| Industrial launderers ............................................................ | 7218 | (1) | (1) | (1) | 43.8 | 48.4 | 52.4 | 53.2 | 54.6 |
| Coin-operated laundries and laundry and garment services, nec | 7215,9 | (1) | (1) | (1) | 58.6 | 54.1 | 53.4 | 53.7 | 54.0 |
| Barber shops ..................................................................... | 724 | 17.7 | 14.1 | 13.9 | 13.8 | 12.3 | 12.1 | 11.7 | 11.3 |
| Shoe repair shops and shoeshine parlors ................................ | 725 | 6.9 | 6.6 | 6.7 | 6.4 | 5.7 | 5.5 | 5.1 | 4.9 |
| Tax return preparation services .............................................. | 7291 | 89.9 | 105.7 | 114.4 | 118.1 | 122.9 | 127.8 | 124.5 | 116.7 |
| Miscellaneous personal services, nec ...................................... | 7299 | 100.5 | 98.2 | 97.0 | 100.4 | 96.4 | 100.0 | 105.0 | 110.0 |
| Business services: |  |  |  |  |  |  |  |  |  |
| Outdoor, radio, television, and other advertising, nec ................. | 7312,3,9 | 67.9 | 68.7 | 69.6 | 72.1 | 70.6 | 74.7 | 80.4 | 84.9 |
| Adjustment and collection services .......................................... | 7322 | 66.3 | 70.5 | 74.6 | 77.6 | 78.5 | 83.2 | 89.3 | 93.9 |
| Credit reporting services ....................................................... | 7323 | 39.4 | 35.8 | 37.9 | 37.7 | 38.0 | 34.0 | 36.5 | 37.0 |
| Direct mail advertising services | 7331 | 88.9 | 88.1 | 84.7 | 88.3 | 90.7 | 96.4 | 103.2 | 107.9 |
| Commercial photography ..................................................... | 7335 | 17.8 | 16.1 | 15.7 | 16.1 | 15.2 | 15.7 | 15.3 | 15.3 |
| Commercial art and graphic design ........................................ | 7336 | 48.3 | 45.6 | 45.1 | 47.3 | 48.2 | 54.8 | 58.7 | 61.1 |
| Secretarial and court reparting | 7338 | 29.3 | 29.7 | 30.7 | 33.0 | 33.9 | 36.7 | 40.6 | 42.5 |
| Computer facilities management | 7376 | 25.6 | 24.2 | 25.2 | 25.8 | 23.9 | 25.0 | 27.6 | 27.7 |
| Computer rental and leasing ................................................ | 7377 | 10.7 | 10.8 | 10.2 | 9.8 | 9.3 | 8.7 | 9.1 | 8.5 |
| Computer related services, nec ............................................. | 7379 | 88.5 | 94.0 | 101.9 | 116.1 | 130.8 | 159.9 | 201.7 | 262.7 |
| News syndicates | 7383 | 10.3 | 10.0 | 10.2 | 9.9 | 10.0 | 11.0 | 12.3 | 11.8 |
| Business services, nec ........................................................ | 7389 | 661.7 | 635.5 | 647.7 | 702.3 | 713.2 | 816.6 | 902.0 | 980.7 |
| Auto repair, services, and parking: |  |  |  |  |  |  |  |  |  |
| Passenger car leasing ......................................................... | 7515 | 11.3 | 10.0 | 9.5 | 9.3 | 8.7 | 8.7 | 9.2 | 8.8 |
| Truck and utility trailer rental ................................................. | 7513,9 | 64.4 | 55.3 | 52.1 | 53.5 | 53.4 | 57.5 | 58.1 | 57.8 |
| Auto exhaust system repair shops ........................................ | 7533 | 22.1 | 22.4 | 23.3 | 23.9 | 25.0 | 26.2 | 26.7 | 26.9 |
| Automotive glass replacement shops ...................................... | 7536 | 19.7 | 20.5 | 20.0 | 20.6 | 22.3 | 25.7 | 26.9 | 29.7 |
| Automotive transmission repair shops ..................................... | 7537 | 23.6 | 23.5 | 23.1 | 23.9 | 25.2 | 26.2 | 27.8 | 28.8 |
| Automotive repair shops, nec ................................................. | 7539 | 54.5 | 50.8 | 50.0 | 50.2 | 50.2 | 52.1 | 53.9 | 54.1 |
| Automotive services, nec | 7549 | 58.2 | 62.9 | 66.1 | 71.0 | 79.7 | 88.7 | 97.6 | 105.6 |
| Reupholstery and furniture repair | 764 | 24.4 | 20.8 | 20.5 | 20.9 | 20.5 | 21.6 | 21.5 | 21.6 |
| Watch and miscellaneous repair shops ................................... | 763,9 | 247.3 | 208.0 | 212.6 | 224.7 | 204.0 | 225.0 | 235.7 | 234.7 |
| Motion pictures: <br> Motion picture distribution and services | 782 | 13.7 | 14.7 | 14.9 | 15.0 | 18.8 | 20.8 | 24.3 | 20.5 |
| Amusement and recreational services: |  |  |  |  |  |  |  |  |  |
| Dance studios, schools, and halls | 791 | 22.1 | 22.7 | 24.6 | 24.9 | 25.4 | 26.4 | 27.2 | 29.0 |
| Producers, orchestras, and entertainers .................................. | 792 | 134.8 | 137.0 | 135.9 | 138.5 | 138.6 | 144.3 | 149.5 | 161.9 |
| Commercial sports | 794 | 91.0 | 91.9 | 91.8 | 91.7 | 94.7 | 96.2 | 105.8 | 109.9 |
| Public golf courses .............................................................. | 7992 | 33.8 | 35.5 | 39.7 | 39.4 | 46.4 | 54.4 | 56.4 | 65.8 |
| Coin-operated amusement devices ........................................ | 7993 | 27.0 | 25.7 | 28.7 | 35.8 | 41.1 | 70.3 | 69.9 | 80.6 |
| Amusement parks . | 7996 | 80.2 | 87.7 | 89.3 | 91.2 | 93.4 | 94.9 | 98.7 | 104.0 |
| Amusement and recreation, nec. ............................................ | 7999 | 183.0 | 186.3 | 208.4 | 255.4 | 306.3 | 320.5 | 326.2 | 338.0 |
| Health services: |  |  |  |  |  |  |  |  |  |
| Offices and clinics of osteopathic physicians ............................ | 803 | 35.2 | 43.1 | 45.1 | 45.4 | 50.1 | 49.9 | 49.0 | 48.8 |
| Offices and clinics of podiatrists ............................................ | 8043 | 22.4 | 24.3 | 25.2 | 25.8 | 26.7 | 27.7 | 27.9 | 28.2 |
| Offices and clinics of health practitioners, nec. ......................... | 8049 | 109.6 | 129.1 | 148.6 | 167.4 | 189.7 | 211.1 | 223.0 | 239.1 |
| Health and allied services, nec .............................................. | 809 | 224.9 | 234.0 | 248.7 | 270.1 | 280.7 | 298.0 | 309.1 | 323.4 |

See footnotes at end of table.

Table 5. Employment benchmarks for industries not published monthly, March 1990-97—Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC Code } \end{gathered}$ | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Services--Continued |  |  |  |  |  |  |  |  |  |
| Specialty outpatient clinics, nec. | 8093 | 154.3 | 159.6 | 167.1 | 179.5 | 184.3 | 194.4 | 198.3 | 202.5 |
| Kidney dialysis centers and health and allied services, nec....... | 8092,9 | 70.6 | 74.4 | 81.6 | 90.6 | 96.4 | 103.6 | 110.8 | 120.9 |
| Educational services: |  |  |  |  |  |  |  |  |  |
| Libraries ............................................................................ | 823 | 14.2 | 18.4 | 19.9 | 14.3 | 16.2 | 21.9 | 21.9 | 22.3 |
| Schools and educational services, nec. .................................. | 829 | 97.6 | 104.6 | 108.2 | 113.8 | 120.1 | 130.1 | 139.1 | 150.9 |
| Membership organizations: |  |  |  |  |  |  |  |  |  |
| Religious organizations ........................................................ | 866 | 1,118.6 | 1,211.6 | 1,149.9 | 1,195.3 | 1,238.7 | 1,296.5 | 1,321.6 | 1,380.2 |
| Political and membership organizations, nec ........................... | 865,9 | 93.6 | 81.1 | 80.5 | 96.8 | 105.5 | 101.8 | 114.7 | 114.7 |
| Engineering and management services: | 8734 | 72.2 | 74.5 | 79.6 | 80.5 | 82.8 | 88.7 | 88.9 | 91.2 |
| Facilities support services | 8744 | 56.6 | 58.8 | 66.3 | 66.3 | 71.7 | 73.1 | 77.3 | 82.4 |
| Business consulting, nec ...................................................... | 8748 | 71.5 | 80.0 | 90.5 | 101.2 | 116.7 | 134.6 | 150.9 | 164.4 |
| Government ......................................................................... |  | 18,568 | 18,717 | 18,953 | 19,145 | 19,411 | 19,674 | 19,794 | 19,863 |
| Federal: |  |  |  |  |  |  |  |  |  |
| Small arms ammunition and ordnance .................................... |  | 19.4 | 18.1 | 18.8 | 16.9 | 14.1 | 12.9 | 11.9 | 14.9 |
| Other manufacturing ............................................................ |  | 29.4 | 27.1 | 25.6 | 22.3 | 21.1 | 20.3 | 20.0 | 15.2 |
| Trade ................................................................................ |  | 79.7 | 79.5 | 75.3 | 70.1 | 66.1 | 58.7 | 53.3 | 64.4 |
| Finance |  | 26.6 | 31.2 | 33.6 | 32.8 | 33.6 | 27.9 | 19.7 | 16.4 |
| Other services .................................................................... |  | 164.5 | 155.7 | 158.9 | 152.8 | 149.1 | 144.1 | 136.1 | 135.1 |
| All other Federal Government, except Postal Service ................ |  | 1,602.2 | 1,489.3 | 1,533.1 | 1,471.4 | 1,485.4 | 1,437.2 | 1,391.4 | 1,342.6 |
| State: |  |  |  |  |  |  |  |  |  |
| Construction ...................................................................... |  | 116.0 | 85.7 | 82.5 | 84.7 | 88.8 | 90.4 | 88.4 | 86.6 |
| Transportation and public utilities ........................................... |  | 48.6 | 49.4 | 48.4 | 48.7 | 49.3 | 49.4 | 49.5 | 52.9 |
| Services ............................................................................ |  | 2,595.7 | 2,662.4 | 2,680.0 | 2,717.6 | 2,764.9 | 2,830.1 | 2,799.0 | 2,741.8 |
| Social services ................................................................... |  | 203.4 | 212.2 | 203.7 | 212.0 | 217.2 | 218.5 | 213.0 | 208.7 |
| Services, except hospitals, education, and social services ......... |  | 121.5 | 140.5 | 135.6 | 138.7 | 139.3 | 141.5 | 141.8 | 140.8 |
| Local: |  |  |  |  |  |  |  |  |  |
| Services ............................................................................. |  | 7,328.3 | 7,467.7 | 7,569.6 | 7,718.1 | 7,864.5 | 8,032.2 | 8,169.0 | 8,339.1 |
| Social services ................................................................... |  | 104.7 | 113.5 | 121.3 | 123.2 | 131.3 | 138.0 | 141.3 | 138.0 |
| Services, except hospitals, education, and social services ......... |  | 223.3 | 230.6 | 239.5 | 244.5 | 261.8 | 278.7 | 306.2 | 330.0 |
| Nonclassifiable establishments ............................................. |  | 162.8 | 127.3 | 142.5 | 133.9 | 130.6 | 147.1 | 167.6 | 143.6 |

1 Not available.
NOTE: N.e.c. is an abbreviation for "not eisewhere classified" and designates broad categories of industries which cannot be more specifically
identified. This table includes data for totals and some industry divisions which are published regularly.

Table 6. Seasonal adjusiment factors for employees on nonfarm payrolis by industry

| Industry | 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. |
| Total ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Goods-producing ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Mining ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Metal mining | 0.9845 | 0.9887 | 0.9984 | 1.0212 | 1.0192 | 1.0266 | 1.0097 | 0.9981 |
| Coal mining | . 9949 | 1.0003 | . 9961 | 1.0078 | 1.0030 | 1.0061 | 1.0024 | 1.0011 |
| Oil and gas extraction | . 9856 | . 9857 | . 9944 | 1.0023 | 1.0162 | 1.0165 | 1.0030 | 1.0092 |
| Nonmetallic minerals, except fuels | . 9582 | . 9990 | 1.0253 | 1.0387 | 1.0404 | 1.0380 | 1.0359 | 1.0270 |
| Construction ${ }^{1}$ |  |  |  |  |  |  |  |  |
| General building contractors | . 9473 | . 9726 | . 9977 | 1.0295 | 1.0462 | 1.0464 | 1.0296 | 1.0273 |
| Heavy construction, except building | . 8866 | . 9665 | 1.0378 | 1.0692 | 1.0810 | 1.0916 | 1.1016 | 1.1041 |
| Special trade contractors ................ | . 9357 | . 9717 | 1.0073 | 1.0350 | 1.0541 | 1.0564 | 1.0443 | 1.0403 |
| Manufacturing ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Durable goods ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Lumber and wood products | . 9812 | . 9865 | . 9961 | 1.0131 | 1.0153 | 1.0188 | 1.0146 | 1.0117 |
| Furniture and fixtures ......... | 1.0017 | . 9986 | . 9973 | 1.0051 | . 9843 | . 9963 | . 9995 | 1.0036 |
| Stone, clay, and glass products | . 9786 | . 9970 | 1.0099 | 1.0200 | 1.0147 | 1.0192 | 1.0177 | 1.0146 |
| Primary metal industries .......... | 1.0004 | . 9992 | . 9992 | 1.0032 | . 9885 | . 9962 | . 9981 | . 9998 |
| Blast furnaces and basic steel products ........................ | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| Fabricated metal products ............................................ | . 9986 | . 9972 | . 9995 | 1.0047 | . 9903 | . 9989 | 1.0011 | 1.0015 |
| Industrial machinery and equipment ............................... | 1.0029 | 1.0025 | 1.0024 | 1.0051 | . 9972 | . 9953 | . 9961 | . 9954 |
| Computer and office equipment | . 9958 | . 9988 | 1.0016 | 1.0055 | 1.0054 | 1.0029 | . 9977 | 1.0023 |
| Electronic and other eiectrical equipment ........................ | . 9977 | . 9968 | . 9967 | 1.0014 | . 9975 | . 9994 | 1.0005 | 1.0007 |
| Electronic components and accessories | . 9986 | . 9976 | . 9976 | 1.0032 | 1.0020 | 1.0021 | . 9982 | . 9995 |
| Transportation equipment ${ }^{3}$........ | 1.0007 | 1.0008 | 1.0036 | 1.0055 | . 9867 | . 9987 | 1.0018 | . 9984 |
| Motor vehicles and equipment ${ }^{3}$ | 1.0010 | 1.0004 | 1.0069 | 1.0094 | . 9776 | . 9993 | 1.0044 | . 9987 |
| Aircraft and parts ............. | . 9969 | . 9977 | . 9981 | . 9987 | . 9970 | . 9946 | . 9992 | 1.0007 |
| Instruments and related products | . 9990 | . 9988 | . 9987 | 1.0031 | 1.0002 | 1.0022 | 1.0000 | 1.0004 |
| Miscellaneous manufacturing ...................................... | . 9965 | 1.0000 | . 9998 | 1.0043 | . 9921 | 1.0041 | 1.0066 | 1.0147 |
| Nondurable goods ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Food and kindred products ........................................... | . 9766 | . 9736 | . 9803 | . 9986 | 1.0188 | 1.0436 | 1.0387 | 1.0200 |
| Tobacco products ...................................................... | . 9817 | . 9506 | . 9206 | . 9230 | . 9170 | 1.0116 | 1.0484 | 1.0635 |
| Textile mill products .................................................... | . 9971 | . 9982 | 1.0009 | 1.0065 | . 9967 | 1.0027 | 1.0032 | . 9988 |
| Apparel and other textile products | . 9951 | . 9968 | 1.0036 | 1.0093 | . 9838 | 1.0077 | 1.0085 | 1.0100 |
| Paper and allied products ........................................... | . 9952 | . 9943 | . 9963 | 1.0074 | 1.0033 | 1.0041 | 1.0032 | . 9991 |
| Printing and publishing ................................................ | . 9980 | . 9991 | . 9994 | 1.0019 | . 9996 | . 9993 | . 9966 | . 9988 |
| Chemicals and allied products ....................................... | . 9980 | . 9971 | . 9990 | 1.0062 | 1.0047 | 1.0058 | . 9998 | 1.0003 |
| Petroleum and coal products ........................................ | . 9777 | . 9900 | 1.0072 | 1.0194 | 1.0257 | 1.0265 | 1.0170 | 1.0143 |
| Rubber and misc. plastics products ................................ | . 9999 | . 9985 | . 9997 | 1.0082 | . 9953 | 1.0012 | 1.0015 | 1.0034 |
| Leather and leather products ........................................ | . 9990 | 1.0024 | 1.0031 | 1.0094 | . 9758 | 1.0065 | 1.0077 | 1.0114 |
| Service-producing ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Transportation and public utilities ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Transportation ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |
| Railroad transportation ................................................ | . 9882 | . 9997 | 1.0036 | 1.0031 | 1.0124 | 1.0096 | 1.0048 | 1.0073 |
| Local and interurban passenger transit ${ }^{3}$......................... | 1.0275 | 1.0312 | 1.0408 | 1.0020 | . 8657 | . 8620 | 1.0265 | 1.0366 |
| Trucking and warehousing ........................................... | . 9809 | . 9843 | . 9969 | 1.0083 | 1.0130 | 1.0151 | 1.0168 | 1.0148 |
| Water transportation ................................................... | . 9672 | . 9940 | 1.0109 | 1.0381 | 1.0503 | 1.0365 | 1.0210 | 1.0134 |
| Transportation by air .................................................... | . 9914 | . 9935 | . 9951 | . 9970 | . 9999 | . 9966 | . 9931 | . 9976 |
| Pipelines, except natural gas ........................................ | . 9905 | . 9867 | . 9955 | 1.0154 | 1.0196 | 1.0166 | 1.0007 | . 9990 |
| Transportation services ............................................... | . 9987 | 1.0021 | 1.0005 | 1.0038 | 1.0039 | 1.0044 | 1.0017 | 1.0046 |
| Communications and public utilities ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Communications ........................................................ | . 9960 | . 9955 | . 9991 | 1.0039 | 1.0048 | 1.0065 | 1.0033 | 1.0028 |
| Electric, gas, and sanitary services ................................ | . 9952 | . 9968 | . 9998 | 1.0082 | 1.0103 | 1.0081 | 1.0003 | . 9994 |
| Wholesale trade ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Durable goods ............................................................. | . 9971 | . 9993 | 1.0015 | 1.0064 | 1.0073 | 1.0034 | . 9984 | 1.0002 |
| Nondurable goods ....................................................... | . 9903 | . 9949 | . 9989 | 1.0062 | 1.0071 | 1.0065 | 1.0053 | 1.0088 |
| Retail trade ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Building materials and garden supplies ............................ | . 9634 | 1.0087 | 1.0426 | 1.0504 | 1.0382 | 1.0223 | 1.0042 | 1.0030 |
| General merchandise stores ......................................... | . 9641 | . 9608 | . 9691 | . 9784 | . 9800 | . 9872 | . 9871 | 1.0164 |
| Department stores ...................................................... | . 9649 | . 9626 | . 9675 | . 9776 | . 9824 | . 9856 | . 9872 | 1.0181 |
| Food stores ................................................................. | . 9861 | . 9876 | . 9943 | 1.0056 | 1.0062 | 1.0044 | . 9990 | 1.0020 |
| Automotive dealers and service stations .......................... | . 9906 | . 9960 | 1.0021 | 1.0090 | 1.0128 | 1.0127 | 1.0068 | 1.0037 |
| New and used car dealers ........................................... | . 9985 | . 9988 | . 9995 | 1.0014 | 1.0031 | 1.0040 | 1.0031 | 1.0027 |
| Apparel and accessory stores ........................................ | . 9688 | . 9741 | . 9762 | . 9889 | . 9925 | . 9993 | . 9823 | . 9981 |
| Furniture and home furnishings stores ............................. | . 9897 | . 9905 | . 9877 | . 9896 | . 9917 | . 9894 | . 9906 | 1.0030 |
| Eating and drinking places ............................................ | . 9836 | . 9995 | 1.0191 | 1.0306 | 1.0205 | 1.0237 | 1.0157 | . 9973 |
| Miscellaneous retail establishments ................................ | . 9790 | . 9813 | . 9866 | . 9833 | . 9793 | . 9827 | . 9909 | 1.0072 |

Table 6. Seasonal adjustment factors for employees on nonfarm payrolls by industry-Continued

| Industry | 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. |
| Finance, insurance, and real estate? Finance ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Depository institutions ................................................. | 0.9969 | 0.9970 | 0.9975 | 1.0062 | 1.0081 | 1.0057 | 0.9987 | 0.9962 |
| Commercial banks | . 9959 | . 9964 | . 9971 | 1.0065 | 1.0085 | 1.0066 | . 9989 | . 9968 |
| Savings institutions | . 9997 | 1.0006 | . 9993 | 1.0069 | 1.0078 | 1.0046 | . 9958 | . 9921 |
| Nondepository institutions | . 9997 | 1.0008 | 1.0015 | 1.0048 | 1.0043 | 1.0035 | . 9999 | . 9953 |
| Mortgage bankers and brokers | . 9991 | 1.0039 | 1.0064 | 1.0118 | 1.0094 | 1.0063 | . 9998 | . 9924 |
| Security and commodity brokers | . 9967 | . 9978 | . 9984 | 1.0046 | 1.0081 | 1.0077 | . 9988 | . 9985 |
| Holding and other investment offices .............................. | 1.0019 | 1.0021 | 1.0016 | 1.0045 | 1.0042 | 1.0010 | . 9938 | . 9988 |
| Insurance ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Insurance carriers | . 9978 | . 9987 | . 9996 | 1.0033 | 1.0047 | 1.0041 | . 9991 | . 9995 |
| Insurance agents, brokers, and service | . 9998 | . 9989 | . 9998 | 1.0035 | 1.0038 | 1.0025 | . 9972 | . 9982 |
| Real estate ................................................................. | . 9772 | . 9876 | 1.0038 | 1.0284 | 1.0349 | 1.0368 | 1.0104 | 1.0015 |
| Services ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Agricultrual services | . 8888 | 1.0051 | 1.0828 | 1.1161 | 1.1110 | 1.0947 | 1.0571 | 1.0459 |
| Hotels and other lodging places | . 9621 | . 9737 | 1.0108 | 1.0572 | 1.0787 | 1.0726 | 1.0267 | 1.0001 |
| Personal services | 1.0527 | 1.0478 | . 9886 | . 9769 | . 9646 | . 9636 | . 9725 | . 9763 |
| Business services | . 9850 | . 9923 | . 9973 | 1.0043 | 1.0050 | 1.0102 | 1.0130 | 1.0200 |
| Services to buildings | . 9929 | 1.0019 | 1.0053 | 1.0116 | 1.0070 | 1.0112 | 1.0026 | 1.0018 |
| Personnel supply services | . 9657 | . 9810 | . 9933 | 1.0026 | 1.0053 | 1.0252 | 1.0356 | 1.0489 |
| Help supply services | . 9615 | . 9790 | . 9942 | 1.0013 | 1.0064 | 1.0237 | 1.0386 | 1.0561 |
| Computer and data processing services ........................ | 1.0040 | . 9996 | . 9982 | . 9987 | . 9995 | . 9995 | . 9977 | . 9988 |
| Auto repair, services, and parking .................................... | . 9989 | . 9981 | 1.0015 | 1.0063 | 1.0067 | 1.0059 | 1.0013 | 1.0021 |
| Miscellaneous repair services | . 9914 | . 9998 | 1.0003 | 1.0093 | 1.0145 | 1.0113 | 1.0052 | 1.0058 |
| Motion pictures ............................................................ | 1.0041 | . 9973 | . 9973 | 1.0076 | 1.0173 | 1.0190 | . 9859 | . 9826 |
| Amusement and recreation services | . 9122 | . 9861 | 1.0563 | 1.1593 | 1.1892 | 1.1617 | 1.0483 | . 9669 |
| Health services | . 9981 | . 9987 | . 9994 | 1.0022 | 1.0039 | 1.0018 | . 9989 | 1.0002 |
| Offices and clinics of medical doctors | . 9971 | . 9982 | . 9990 | 1.0031 | 1.0052 | 1.0034 | . 9989 | . 9997 |
| Nursing and personal care facilities ............................... | . 9976 | . 9978 | . 9973 | 1.0010 | 1.0040 | 1.0038 | 1.0000 | 1.0005 |
| Hospitals ..................... | . 9999 | . 9986 | . 9985 | 1.0016 | 1.0036 | 1.0014 | . 9982 | . 9992 |
| Home health care services | . 9960 | 1.0013 | 1.0034 | 1.0022 | 1.0000 | . 9965 | 1.0020 | 1.0079 |
| Legal services | . 9959 | . 9954 | . 9945 | 1.0150 | 1.0169 | 1.0077 | . 9927 | . 9945 |
| Educational services ${ }^{3}$ | 1.0618 | 1.0629 | 1.0152 | . 9112 | . 8738 | . 8609 | . 9797 | 1.0661 |
| Social services. | 1.0036 | 1.0069 | 1.0099 | . 9983 | . 9988 | . 9899 | . 9953 | 1.0033 |
| Child day care services | 1.0249 | 1.0298 | 1.0387 | . 9765 | . 9143 | . 9153 | 1.0070 | 1.0267 |
| Residential care | . 9970 | . 9986 | . 9996 | 1.0092 | 1.0111 | 1.0081 | . 9961 | . 9963 |
| Museums and botanical and zoological gardens | . 9359 | . 9829 | 1.0417 | 1.0816 | 1.0978 | 1.0751 | 1.0149 | 1.0157 |
| Membership organizations ${ }^{3}$ | . 9937 | . 9944 | . 9997 | 1.0160 | 1.0308 | 1.0173 | . 9911 | . 9944 |
| Engineering and management services ........................... | 1.0036 | 1.0066 | . 9981 | 1.0061 | 1.0063 | 1.0035 | . 9964 | . 9985 |
| Engineering and architectural services | . 9905 | . 9906 | . 9981 | 1.0123 | 1.0136 | 1.0137 | 1.0045 | 1.0036 |
| Management and public relations .................................. | . 9960 | 1.0038 | 1.0025 | 1.0091 | 1.0085 | 1.0059 | 1.0010 | 1.0026 |
| Services, nec .............................................................. | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| Government ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Federal ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Postal Service | . 9956 | . 9925 | . 9920 | . 9941 | . 9918 | . 9930 | . 9915 | . 9866 |
| Federal, except Postal Service ...................................... | . 9969 | 1.0001 | 1.0065 | 1.0146 | 1.0132 | 1.0098 | 1.0018 | . 9939 |
| State ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Education .................................................................. | 1.0710 | 1.0697 | 1.0319 | . 9102 | . 8550 | . 8520 | . 9727 | 1.0651 |
| Other State government ............................................... | . 9944 | . 9974 | . 9995 | 1.0127 | 1.0219 | 1.0142 | 1.0023 | . 9952 |
| Local ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Education .................................................................... | 1.0553 | 1.0487 | 1.0498 | 1.0048 | . 8388 | . 8331 | . 9789 | 1.0392 |
| Other local government ............................................... | . 9811 | . 9823 | . 9938 | 1.0297 | 1.0589 | 1.0421 | . 9983 | . 9873 |

${ }^{1}$ Seasonally adjusted data are derived by aggregation of the component series.

2 Seasonal adjustment factors are not computed because the seasonal component, which is small relative to the trend-cycle and irregular components, cannot be separated with sufficient precision.
${ }^{3}$ No adjustment was made to control for the effects of a 4 - vs.

5-week interval between surveys.
NOTE: March-April factors replace those published in the December 1997 issue of this publication. All factors are multiplicative. Seasonally adjusted series are computed by dividing the original value by the corresponding seasonal factor.

Table 7. Seasonal adjustment factors for women employees on nonfarm payrolls by industry

| Industry | 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. |
| Total ${ }^{1}$ | 0.9879 <br> .9771 | $\begin{array}{r} 0.9971 \\ .9871 \end{array}$ | $\begin{array}{r} 0.9965 \\ .9988 \end{array}$ | $1.0155$ | 1.02191.0239 | $\begin{aligned} & 1.0139 \\ & 1.0229 \end{aligned}$ | $1.0021$ | 1.0099 |
| Goods-producing ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Mining ......................................................................... |  |  |  |  |  |  |  |  |
| Construction |  |  |  | 1.0140 |  |  | 1.0162 | 1.0132 |
| Manufacturing ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Durable goods ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Lumber and wood products. | . 9821 | . 9914 | 1.0001 | 1.0112 | 1.0106 | 1.0149 | 1.0092 | 1.0104 |
| Furniture and fixtures ..... | 1.0021 | 1.0008 | 1.0008 | 1.0067 | . 9816 | . 9925 | . 9987 | 1.0035 |
| Stone, clay, and glass products ..................................... | . 9898 | . 9969 | . 9984 | 1.0107 | . 9939 | 1.0085 | 1.0078 | 1.0060 |
| Primary metal industries .............................................. | . 9956 | . 9944 | 1.0048 | 1.0099 | 1.0008 | 1.0074 | 1.0026 | . 9950 |
| Fabricated metal products ............................................ | . 9982 | . 9981 | . 9995 | 1.0055 | . 9876 | . 9989 | . 9999 | 1.0037 |
| Industrial machinery and equipment ............................... | 1.0037 | 1.0018 | 1.0047 | 1.0059 | . 9979 | . 9953 | . 9915 | . 9949 |
| Electronic and other electrical equipment ........................ | . 9973 | . 9969 | . 9975 | 1.0004 | . 9931 | . 9973 | 1.0004 | 1.0020 |
| Transportation equipment ${ }^{2}$.......................................... | . 9984 | . 9981 | . 9986 | 1.0043 | . 9851 | 1.0041 | 1.0004 | . 9984 |
| Instruments and related products .................................. | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) |
| Miscellaneous manufacturing ....................................... | . 9934 | . 9978 | 1.0013 | 1.0046 | . 9946 | 1.0082 | 1.0116 | 1.0203 |
| Nondurable goods ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |
| Food and kindred products | . 9619 | . 9577 | . 9667 | . 9895 | 1.0370 | 1.0651 | 1.0595 | 1.0350 |
| Tobacco products | . 9693 | . 9119 | . 8662 | . 8814 | . 8645 | 1.0349 | 1.0840 | 1.1001 |
| Textile mill products ..................................................... | . 9957 | . 9977 | 1.0005 | 1.0086 | . 9951 | 1.0034 | 1.0051 | 1.0003 |
| Apparel and other textile products ................................. | . 9968 | . 9988 | 1.0042 | 1.0088 | . 9755 | 1.0040 | 1.0089 | 1.0136 |
| Paper and allied products ............................................. | . 9896 | . 9892 | . 9952 | 1.0112 | 1.0107 | 1.0121 | 1.0067 | 1.0031 |
| Printing and publishing | . 9978 | 1.0003 | 1.0002 | 1.0022 | . 9991 | 1.0005 | . 9953 | . 9979 |
| Chemicals and allied products ...................................... | . 9961 | . 9960 | . 9985 | 1.0086 | 1.0068 | 1.0087 | 1.0003 | 1.0013 |
| Petroleum and coal products.. | . 9770 | . 9820 | . 9947 | 1.0164 | 1.0266 | 1.0327 | 1.0138 | 1.0125 |
| Rubber and misc. plastics products ................................ | . 9990 | . 9987 | 1.0004 | 1.0081 | . 9895 | . 9968 | 1.0012 | 1.0038 |
| Leather and leather products ........................................ | . 9965 | . 9988 | 1.0031 | 1.0052 | . 9729 | 1.0104 | 1.0135 | 1.0161 |
| Service-producing ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Transportation and public utilities ................................. | . 9981 | . 9976 | 1.0020 | 1.0024 | . 9882 | . 9862 | 1.0051 | 1.0074 |
| Wholesale trade ............................................................ | . 9945 | . 9947 | . 9973 | 1.0023 | 1.0010 | . 9992 | 1.0028 | 1.0073 |
| Retail trade .................................................................. | . 9749 | . 9843 | . 9966 | 1.0060 | 1.0009 | 1.0050 | 1.0019 | 1.0057 |
| Finance, insurance, and real estate ............................... | . 9968 | . 9974 | . 9992 | 1.0073 | 1.0090 | 1.0075 | . 9990 | . 9987 |
| Services ....................................................................... | . 9986 | 1.0026 | 1.0027 | 1.0048 | 1.0014 | . 9997 | 1.0010 | 1.0063 |
| Government ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Federal | $\begin{array}{r} .9957 \\ 1.0281 \\ 1.0321 \end{array}$ | 1.0001 | 1.0040 | 1.0079 | 1.0049 | 1.0029 | 1.0005 | . 9906 |
| State |  | 1.0291 | 1.0147 | . 9678 | . 9476 | . 9412 | . 9881 | 1.0253 |
| Local ......................................................................... |  | 1.0301 | 1.0324 | 1.0104 | . 8969 | . 8861 | . 9838 | 1.0245 |

1 Seasonally adjusted data are derived by aggregation of the component series.
2 No adjustment was made to control for the effects of a 4-vs. 5 -week interval between surveys.
${ }^{3}$ Seasonal adjustment factors are not computed because the seasonal component, which is small relative to the trend-cycle and
irregular components, cannot be separated with sufficient precision.
NOTE: March-April factors replace those published in the December 1997 issue of this publication. All factors are multiplicative. Seasonally adjusted series are computed by dividing the original value by the corresponding seasonal factor.

Table 8. Seasonal adjustment factors for production or nonsupervisory workers' ${ }^{1}$ on nonfarm payrolls by industry

| Industry | 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. |
| Total private ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Goods-producing ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Mining ......................................................................... | 0.9816 | 0.9921 | 0.9989 | 1.0155 | 1.0240 | 1.0260 | 1.0141 | 1.0123 |
| Construction ............................................................... | . 9145 | . 9658 | 1.0128 | 1.0453 | 1.0671 | 1.0723 | 1.0613 | 1.0605 |
| Manufacturing ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Durable goods ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Lumber and wood products .......................................... | . 9789 | . 9851 | . 9957 | 1.0142 | 1.0157 | 1.0207 | 1.0176 | 1.0135 |
| Furniture and fixtures ................................................... | 1.0028 | . 9993 | . 9981 | 1.0052 | . 9825 | . 9958 | . 9997 | 1.0047 |
| Stone, clay, and glass products ..................................... | . 9774 | 1.0014 | 1.0107 | 1.0238 | 1.0133 | 1.0233 | 1.0219 | 1.0190 |
| Primary metal industries .............................................. | 1.0007 | . 9997 | . 9999 | 1.0043 | . 9869 | . 9954 | . 9978 | . 9999 |
| Blast furnaces and basic steel products | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) |
| Fabricated metal products ............................................ | . 9986 | . 9975 | . 9992 | 1.0056 | . 9862 | . 9995 | 1.0017 | 1.0025 |
| Industrial machinery and equipment ................................ | 1.0069 | 1.0058 | 1.0042 | 1.0053 | . 9915 | . 9897 | . 9940 | . 9935 |
| Electronic and other electrical equipment | 1.0000 | . 9971 | . 9969 | 1.0003 | . 9922 | . 9972 | . 9999 | 1.0009 |
| Transportation equipment ${ }^{4}$.......................................... | 1.0023 | 1.0031 | 1.0078 | 1.0090 | . 9815 | . 9974 | 1.0019 | . 9968 |
| Motor vehicles and equipment ${ }^{4}$.................................... | 1.0028 | 1.0009 | 1.0093 | 1.0116 | . 9711 | . 9974 | 1.0008 | . 9959 |
| Instruments and related products .................................. | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) |
| Miscellaneous manutacturing ....................................... | . 9968 | . 9980 | 1.0009 | 1.0060 | . 9881 | 1.0018 | 1.0103 | 1.0180 |
| Nondurabie goods ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Food and kindred products ........................................... | . 9719 | . 9670 | . 9733 | . 9947 | 1.0204 | 1.0561 | 1.0495 | 1.0254 |
| Tobacco products ....................................................... | . 9744 | . 9288 | . 8900 | . 8919 | . 8859 | 1.0266 | 1.0711 | 1.0884 |
| Textile mill products .................................................... | . 9981 | . 9996 | 1.0020 | 1.0065 | . 9936 | 1.0028 | 1.0037 | . 9988 |
| Apparel and other textile products .................................. | . 9963 | . 9988 | 1.0057 | 1.0092 | . 9772 | 1.0056 | 1.0099 | 1.0126 |
| Paper and allied products ............................................. | . 9940 | . 9919 | . 9960 | 1.0074 | 1.0056 | 1.0057 | 1.0046 | 1.0003 |
| Printing and publishing ................................................ | 1.0000 | . 9997 | . 9976 | . 9991 | . 9995 | . 9993 | . 9965 | . 9975 |
| Chemicals and allied products ...................................... | . 9986 | . 9964 | . 9995 | 1.0049 | . 9997 | 1.0054 | 1.0014 | 1.0009 |
| Petroleum and coal products ........................................ | . 9684 | . 9943 | 1.0145 | 1.0281 | 1.0337 | 1.0355 | 1.0246 | 1.0222 |
| Rubber and misc. plastics producls ................................ | . 9994 | . 9978 | . 9992 | 1.0089 | . 9933 | 1.0013 | 1.0024 | 1.0051 |
| Leather and leather products ......................................... | 1.0006 | 1.0018 | 1.0032 | 1.0121 | . 9644 | 1.0085 | 1.0067 | 1.0174 |
| Service-producing ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Transportation and public utilties ................................. | . 9915 | . 9948 | 1.0011 | 1.0069 | . 9991 | . 9966 | 1.0071 | 1.0090 |
| Wholesale trade | . 9927 | . 9961 | 1.0005 | 1.0075 | 1.0081 | 1.0064 | 1.0023 | 1.0050 |
| Retail trade ................................................................... | . 9779 | . 9886 | 1.0002 | 1.0098 | 1.0053 | 1.0074 | 1.0022 | 1.0026 |
| Flnance, insurance, and real estate ............................... | . 9921 | . 9955 | 1.0006 | 1.0123 | 1.0165 | 1.0144 | 1.0009 | . 9978 |
| Services ........................................................................ | . 9931 | 1.0018 | 1.0049 | 1.0106 | 1.0126 | 1.0095 | 1.0033 | 1.0065 |

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.
${ }^{3}$ Seasonal adjustment lactors are not computed because the seasonal component, which is small relative to the trend-cycle and
irregular components, cannot be separated with sufficient precision. 4 No adjustment was made to control for the effects of a 4-vs. 5-week interval between surveys.

NOTE: March-April factors replace those published in the December 1997 issue of this publication. All factors are multiplicative. Seasonally adjusted series are computed by dividing the original value by the corresponding seasonal factor.

Table 9. Seasonal adjustment factors for average weekly hours of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by industry

| Industry | 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. |
| Total private ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Goods-producing ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Mining ........................................................................ | 0.9910 | 0.9846 | 0.9964 | 1.0047 | 0.9825 | 1.0052 | 1.0016 | 1.0018 |
| Construction | . 9840 | . 9815 | 1.0150 | 1.0178 | 1.0234 | 1.0249 | . 9849 | 1.0219 |
| Manufacturing ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Durable goods ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Lumber and wood products | . 9904 | . 9894 | 1.0040 | 1.0075 | . 9997 | 1.0089 | . 9938 | 1.0107 |
| Furniture and fixtures .................................................. | . 9918 | . 9750 | . 9851 | . 9953 | . 9912 | 1.0068 | . 9952 | 1.0092 |
| Stone, clay, and glass products | . 9844 | . 9912 | 1.0099 | 1.0137 | 1.0051 | 1.0113 | 1.0199 | 1.0149 |
| Primary metal industries ........................ | . 9988 | . 9895 | . 9989 | . 9997 | . 9889 | . 9923 | 1.0005 | . 9989 |
| Blast furnaces and basic steel products ${ }^{3}$....................... | . 9985 | . 9974 | . 9965 | . 9980 | 1.0022 | . 9943 | 1.0032 | . 9920 |
| Fabricated metal products ............................................ | . 9942 | . 9778 | . 9979 | 1.0021 | . 9814 | . 9974 | . 9864 | 1.0055 |
| Industrial machinery and equipment | 1.0049 | . 9827 | 1.0025 | . 9992 | . 9834 | . 9882 | . 9815 | . 9949 |
| Electronic and other electrical equipment ........................ | . 9996 | . 9819 | . 9947 | . 9996 | . 9823 | . 9955 | . 9919 | . 9991 |
| Transportation equipment ............................................. | 1.0059 | . 9833 | 1.0097 | 1.0045 | . 9625 | 1.0013 | . 9818 | 1.0063 |
| Motor vehicles and equipment | 1.0087 | . 9818 | 1.0175 | 1.0067 | . 9486 | 1.0041 | . 9779 | 1.0089 |
| Instruments and related products .................................. | 1.0048 | . 9820 | . 9960 | 1.0000 | . 9819 | . 9929 | . 9924 | . 9989 |
| Miscelianeous manulacturing ........................................ | 1.0003 | . 9836 | . 9973 | . 9983 | . 9801 | . 9953 | . 9845 | 1.0108 |
| Nondurable goods ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Food and kindred products .......................................... | . 9859 | . 9775 | . 9925 | . 9952 | . 9912 | 1.0085 | 1.0209 | 1.0118 |
| Tobacco products | . 9812 | . 9684 | . 9923 | 1.0224 | . 9672 | . 9930 | 1.0100 | 1.0135 |
| Textile mill products | . 9988 | . 9791 | . 9956 | 1.0092 | . 9850 | 1.0061 | 1.0120 | . 9977 |
| Apparel and other textile products | . 9997 | . 9674 | . 9988 | 1.0113 | . 9885 | 1.0036 | . 9885 | 1.0080 |
| Paper and allied products ${ }^{3}$ | . 9928 | . 9892 | . 9955 | . 9987 | . 9884 | . 9943 | 1.0098 | 1.0007 |
| Printing and publishing .......... | 1.0008 | . 9903 | . 9928 | . 9910 | . 9919 | 1.0013 | 1.0131 | 1.0063 |
| Chemicals and allied products ${ }^{4}$..................................... | . 9993 | . 9950 | . 9974 | . 9994 | . 9924 | . 9921 | 1.0033 | . 9975 |
| Petroleum and coal products ........................................ | (5) | (5) | (5) | (5) | (5) | (5) | (5) | (5) |
| Rubber and misc. plastics products ............................... | . 9988 | . 9840 | . 9961 | 1.0006 | . 9766 | . 9940 | . 9994 | . 9962 |
| Leather and leather products ........................................ | . 9947 | . 9783 | 1.0020 | 1.0138 | . 9967 | 1.0062 | . 9985 | 1.0064 |
| Service-producing ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Transportation and public utilities ${ }^{6}$................................ | . 9895 | . 9880 | . 9925 | 1.0035 | 1.0037 | 1.0150 | 1.0039 | . 9994 |
| Wholesale trade ${ }^{6}$.......................................................... | 1.0023 | . 9958 | . 9981 | 1.0022 | . 9997 | 1.0066 | . 9980 | 1.0005 |
| Retail trade ${ }^{4.6}$............................................................... | . 9919 | . 9899 | . 9974 | 1.0105 | 1.0229 | 1.0294 | 1.0037 | . 9939 |
| Finance, insurance, and real estate ................................ | (5) | (5) | (5) | (5) | (5) | (5) | (5) | (5) |
| Services6 .................................................................... | 1.0023 | . 9947 | . 9939 | 1.0010 | 1.0066 | 1.0159 | . 9942 | . 9976 |

[^3]reference period of the payroll survey.
${ }^{5}$ Seasonal adjustment factors are not computed because the seasonal component, which is small relative to the trend-cycle and irregular components, cannot be separated with sufficient precision.
${ }^{6}$ An adjustment was made to control for the distortions related to the varying length of payoll periods across months. No adjustment was made to control for the effects of a 4-vs. 5 -week interval between surveys.

NOTE: March-April factors replace those published in the December 1997 issue of this publication. All tactors are multiplicative. Seasonally adjusted series are computed by dividing the original value by the corresponding seasonal factor.

Table 10. Seasonal adjustment factors for average weekly overtime hours of production workers on manufacturing payrolls

| indusiry | 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. |
| Manufacturing ${ }^{1}$ |  |  |  |  |  |  |  |  |
| Durable goods $\qquad$ Nondurable goods $\qquad$ | $\begin{array}{r} 0.9735 \\ .9548 \end{array}$ | $\begin{array}{r} 0.8850 \\ .9028 \end{array}$ | $\begin{array}{r} 1.0033 \\ .9564 \end{array}$ | $\begin{array}{r} 0.9954 \\ .9849 \end{array}$ | $\begin{array}{r} 0.9104 \\ .9757 \end{array}$ | $\begin{aligned} & 1.0087 \\ & 1.0473 \end{aligned}$ | $\begin{aligned} & 0.9867 \\ & 1.0968 \end{aligned}$ | $\begin{aligned} & 1.0387 \\ & 1.0512 \end{aligned}$ |

' Seasonally adjusted data are derived by aggregation of the component series.

NOTE: March-April factors replace those published in the

December 1997 issue of this publication. All factors are multiplicative. Seasonally adjusted series are computed by dividing the original value by the corresponding seasonal factor.

Table 11. Seasonal adjustment factors for average hourly earnings of production or nonsupervisory workers1 on private nonfarm payrolls by industry

| Industry | 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. |
| Total private ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Goods-producing ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Mining ........................................................................... | 1.0039 | 1.0074 | 0.9978 | 1.0002 | 0.9956 | 0.9909 | 1.0009 | 0.9912 |
| Construction | . 9930 | . 9934 | . 9973 | . 9958 | . 9993 | 1.0044 | 1.0122 | 1.0096 |
| Manufacturing ............................................................... | 1.0005 | 1.0017 | . 9999 | . 9980 | . 9966 | . 9943 | 1.0007 | . 9987 |
| Excluding overtime .................................................... | 1.0024 | 1.0058 | 1.0000 | . 9984 | . 9989 | . 9936 | 1.0003 | . 9959 |
| Service-producing ${ }^{2}$ |  |  |  |  |  |  |  |  |
| Transportation and public utilities ................................. | . 9981 | . 9970 | . 9933 | . 9955 | . 9985 | . 9989 | 1.0031 | 1.0023 |
| Wholesale trade ${ }^{3}$.......................................................... | 1.0011 | 1.0017 | . 9969 | . 9933 | . 9945 | . 9982 | . 9992 | . 9950 |
| Retail trade ................................................................... | 1.0036 | 1.0002 | . 9987 | . 9964 | . 9918 | . 9893 | 1.0037 | 1.0021 |
| Finance, insurance, and real estate ${ }^{3}$.............................. | 1.0085 | . 9986 | . 9970 | . 9899 | . 9886 | . 9965 | . 9959 | . 9979 |
| Services ${ }^{3}$...................................................................... | 1.0092 | 1.0009 | . 9955 | . 9865 | . 9821 | . 9848 | . 9980 | . 9987 |

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.
${ }^{3}$ An adjustment was made to control for the distontions related to
the varying length of payroll periods across months. No adjustment was made to control for the effects of a 4-vs. 5 -week interval between surveys.

NOTE: March-April factors replace those published in the December 1997 issue of this publication. All factors are multiplicative. Seasonally adjusted series are computed by dividing the original value by the corresponding seasonal factor.

Summary table A. Major labor force status categories, seasonally adjusted
(Numbers in thousands)

| Category | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
|  | Labor force status |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population | 202,832 | 203,000 | 203,166 | 203,364 | 203,570 | 203.767 | 203.941 | 204,098 | 204,238 | 204,400 | 204,547 | 204.731 | 204,899 |
| Civilian labor force ........................................ | 136,060 | 136,206 | 136,294 | 136,404 | 136,439 | 136,406 | 136,864 | 137,169 | 137,493 | 137,557 | 137,523 | 137,242 | 137,364 |
| Percent of population | 67.1 | 67.1 | 67.1 | 67.1 | 67.0 | 66.9 | 67.1 | 67.2 | 67.3 | 67.3 | 67.2 | 67.0 | 67.0 |
| Employed | 129,494 | 129,392 | 129,661 | 129,747 | 129,761 | 129,910 | 130,575 | 130,777 | 131,083 | 131,163 | 130,994 | 131,383 | 131,453 |
| Percent of population ........................... | 63.8 | 63.7 | 63.8 | 63.8 | 63.7 | 63.8 | 64.0 | 64.1 | 64.2 | 64.2 | 64.0 | 64.2 | 64.2 |
| Unemployed ............................................. | 6,566 | 6,814 | 6,633 | 6,657 | 6,678 | 6,496 | 6.289 | 6,392 | 6,409 | 6,393 | 6.529 | 5,859 | 5,910 |
| Not in labor force .......................................... | 66,772 | 66,794 | 66,872 | 66,960 | 67,131 | 67,361 | 67,077 | 66,929 | 66,745 | 66,844 | 67,024 | 67,489 | 67,535 |
|  | Unemployment rates |  |  |  |  |  |  |  |  |  |  |  |  |
| All workers | 4.8 | 5.0 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.7 | 4.7 | 4.6 | 4.7 | 4.3 | 4.3 |
| Men, 20 years and over ................................ | 3.9 | 4.2 | 4.1 | 4.1 | 4.1 | 4.1 | 3.9 | 4.1 | 3.8 | 3.8 | 3.9 | 3.4 | 3.5 |
| Women, 20 years and over ............................ | 4.5 | 4.4 | 4.3 | 4.3 | 4.3 | 4.1 | 4.0 | 4.0 | 4.4 | 4.3 | 4.3 | 4.1 | 3.9 |
| Both sexes, 16 to 19 years ............................ | 15.7 | 16.5 | 16.3 | 16.2 | 16.4 | 15.5 | 15.2 | 14.3 | 14.1 | 14.7 | 15.0 | 13.1 | 14.2 |
| White ................................................. | 4.1 | 4.3 | 4.2 | 4.2 | 4.2 | 4.1 | 3.9 | 3.9 | 4.0 | 3.9 | 4.1 | 3.6 | 3.7 |
| Black | 10.3 | 10.3 | 9.6 | 9.5 | 9.6 | 9.6 | 9.7 | 9.9 | 9.3 | 9.7 | 9.2 | 8.9 | 9.0 |
| Hispanic origin ........................................... | 7.6 | 7.7 | 7.9 | 7.3 | 7.6 | 7.8 | 6.9 | 7.5 | 6.9 | 6.8 | 6.9 | 6.5 | 6.8 |

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.
Summary table B. Employment, hours, and earnings of production or nonsupervisory workers on nonfarm payrolls, seasonally adjusted
(Numbers in thousands)

| Industry | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ${ }^{\text {D }}$ | May ${ }^{\text {P }}$ |
|  | Employmont |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 122,325 | 122,534 | 122,811 | 122,894 | 123,280 | 123,568 | 123,944 | 124,289 | 124,640 | 124,832 | 124,914 | 125,216 | 125,512 |
| Total private | 102,811 | 102,991 | 103,219 | 103,285 | 103,673 | 103,922 | 104,282 | 104,609 | 104,954 | 105,112 | 105,186 | 105,452 | 105,707 |
| Goods-producing industries | 24,883 | 24,903 | 24,923 | 24,972 | 24,993 | 25,032 | 25,099 | 25,193 | 25,297 | 25,314 | 25,276 | 25,334 | 25,298 |
| Mining ... | 593 | 593 | 593 | 592 | 594 | 592 | 591 | 592 | 592 | 590 | 587 | 582 | 581 |
| Construction | 5,670 | 5,668 | 5,682 | 5,699 | 5,713 | 5,722 | 5,750 | 5,810 | 5,881 | 5,902 | 5,860 | 5,926 | 5,917 |
| Manufacturing ... | 18,620 | 18,642 | 18,648 | 18,681 | 18,686 | 18,718 | 18,758 | 18,791 | 18,824 | 18,822 | 18,829 | 18,826 | 18,800 |
| Service-producing industries | 97,442 | 97,631 | 97,888 | 97,922 | 98,287 | 98,536 | 90,845 | 99,096 | 99,343 | 99,518 | 99,638 | 99,882 | 100,214 |
| Transportation and public utilities | 6,399 | 6,405 | 6,411 | 6,264 | 6.435 | 6,453 | 6,456 | 6,451 | 6,473 | 6,494 | 6,504 | 6,512 | 6,534 |
| Wholesale trade ... | 6,626 | 6,632 | 6,655 | 6.671 | 6.679 | 6,697 | 6,711 | 6,731 | 6,759 | 6,769 | 6,783 | 6,797 | 6,806 |
| Retail trade | 21,952 | 21,987 | 21,987 | 22,043 | 22.078 | 22,105 | 22,206 | 22,245 | 22,280 | 22,283 | 22,259 | 22,328 | 22,417 |
| Finance, insurance, and real estate | 7,064 | 7.072 | 7,095 | 7.110 | 7.125 | 7,151 | 7.172 | 7,194 | 7,213 | 7,232 | 7,258 | 7,286 | 7,306 |
| Services ....................................................... | 35,887 | 35,992 | 36,148 | 36,225 | 36,363 | 36,484 | 36,638 | 36,795 | 36,932 | 37,020 | 37,106 | 37,195 | 37,346 |
| Government ............................................... | 19,514 | 19,543 | 19,592 | 19,609 | 19,607 | 19,646 | 19,662 | 19,680 | 19,686 | 19,720 | 19,728 | 19,764 | 19,805 |
|  | Over-the-month change |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 233 | 209 | 277 | 83 | 386 | 288 | 376 | 345 | 351 | 192 | 82 | 302 | 296 |
| Total private | 223 | 180 | 228 | 66 | 388 | 249 | 360 | 327 | 345 | 158 | 74 | 266 | 255 |
| Goods-producing industries | 27 | 20 | 20 | 49 | 21 | 39 | 67 | 94 | 104 | 17 | -38 | 58 | -36 |
| Mining | 2 | 0 | 0 | -1 | 2 | -2 | -1 | 1 | 0 | -2 | -3 | -5 | -1 |
| Construction | 18 | -2 | 14 | 17 | 14 | 9 | 28 | 60 | 71 | 21 | -42 | 66 | -9 |
| Manufacturing ... | 7 | 22 | 6 | 33 | 5 | 32 | 40 | 33 | 33 | -2 | 7 | -3 | -26 |
| Service-producing industries ........................... | 206 | 189 | 257 | 34 | 365 | 249 | 309 | 251 | 247 | 175 | 120 | 244 | 332 |
| Transportation and public utilities | 6 | 6 | 6 | -147 | 171 | 18 | 3 | -5 | 22 | 21 | 10 | 8 | 22 |
| Wholesale trade ................. | 11 | 6 | 23 | 16 | 8 | 18 | 14 | 20 | 28 | 10 | 14 | 14 | 9 |
| Retail trade .. | 15 | 35 | 0 | 56 | 35 | 27 | 101 | 39 | 35 | 3 | -24 | 69 | 89 |
| Finance, insurance, and real estate .................. | 11 | 8 | 23 | 15 | 15 | 26 | 21 | 22 | 19 | 19 | 26 | 28 | 20 |
| Services ..................................... | 153 | 105 | 156 | 77 | 138 | 121 | 154 | 157 | 137 | 88 | 86 | 89 | 151 |
| Government ................................................. | 10 | 29 | 49 | 17 | -2 | 39 | 16 | 18 | 6 | 34 | 8 | 36 | 41 |
|  | Hours of work ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Total private | 34.7 | 34.5 | 34.5 | 34.7 | 34.6 | 34.6 | 34.7 | 34.7 | 34.8 | 34.7 | 34.6 | 34.5 | 34.7 |
| Manufacturing | 42.0 | 41.9 | 41.9 | 41.9 | 41.9 | 42.0 | 42.1 | 42.2 | 42.1 | 42.0 | 41.8 | 41.4 | 41.7 |
| Overtime .............................................. | 4.9 | 4.7 | 4.8 | 4.8 | 4.7 | 4.8 | 4.9 | 4.9 | 4.9 | 4.8 | 4.8 | 4.5 | 4.6 |
|  | Indexes of aggregate weekly hours (1982=100) ${ }^{\text {1 }}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Manutacturing ........................................................................ | 141.2 | 140.9 | 141.3 | 141.7 | 142.1 | $142.6$ | $143.2$ | $143.6$ | $144.6$ | $144.4$ | $143.8$ | 143.9 | $144.9$ |
|  | 109.1 | 108.8 | 108.9 | 109.2 | 109.2 | 109.8 | 110.1 | $110.6$ | 110.6 | 110.3 | 109.7 | 108.6 | 109.1 |
|  | Earnings ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Average hourly earnings, total private: <br> Current dollars <br> Constant (1982) dollars ${ }^{2}$ <br> Average weekly earnings, total private ................. | $\begin{array}{r} \$ 12.21 \\ 7.53 \\ 423.69 \end{array}$ | $\begin{array}{r} \$ 12.24 \\ 7.54 \\ 422.28 \end{array}$ | $\begin{array}{r} \$ 12.27 \\ 7.55 \\ 423.32 \end{array}$ |  | $\begin{array}{r} \$ 12.37 \\ 7.58 \\ 428.00 \end{array}$ |  |  |  |  | $\begin{array}{r} \$ 12.59 \\ 7.09 \end{array}$ |  | $\begin{array}{r} \$ 12.69 \\ 7.73 \end{array}$ | $\begin{aligned} & \$ 12.73 \\ & \text { N.A. } \\ & 441.73 \end{aligned}$ |
|  |  |  |  | $\begin{array}{r} \$ 12.34 \\ 7.58 \\ 428.20 \end{array}$ |  | $\begin{array}{r} \$ 12.43 \\ 7.60 \end{array}$ | $\begin{array}{r} \$ 12.47 \\ 7.62 \end{array}$ | $\begin{array}{r} \$ 12.50 \\ 7.63 \end{array}$ | $\begin{array}{r} \$ 12.54 \\ 7.66 \end{array}$ |  | $\begin{array}{r} \$ 12.63 \\ 7.72 \end{array}$ |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 430.08 | 432.71 | 433.75 | 436.39 | 436.87 | 437.00 | 437.81 |  |

[^4]${ }^{\rho}=$ preliminary.
NOTE: Data have been revised to reflect March 1997 benchmarks, refinements to the seasonal adjustment process for the hours and earnings series, and recomputed seasonal adjustment factors.

## Chart 1. Nonfarm payroll employment, seasonally adjusted, 1994-98



NOTE: Data have been revised to reflect March 1997 benchmarks and recomputed seasonal adjustment factors.

Chart 2. Unemployment rate, seasonally adjusted, 1994-98


NOTE: Beginning in 1990, data reflect 1990 census-based population controls, adjusted for the estimated undercount. Beginning in 1994, data reflect the introduction of a major redesign of the Current Population Survey. Beginning in 1997, data incorporate revisions in the population controls. Beginning in 1998, data incorporate new composite estimation procedures and updated population controls. These changes affect comparability with data for prior periods.

A-1. Employment status of the civilian noninstitutional population 16 years and over, 1964 to date
(Numbers in thousands)

| Year and month | Civilian noninstitutional population | Civilian labor force |  |  |  |  |  |  |  | Not in labor force |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Percent of population | Employed |  |  |  | Unemployed |  |  |
|  |  | Number |  | Number | Percent of population | Agriculture | Nonagricultural industries | Number | Percent of labor force |  |
|  | Annual averages |  |  |  |  |  |  |  |  |  |
| 1964 | 124,485 | 73,091 | 58.7 | 69,305 | 55.7 | 4,523 | 64,782 | 3,786 | 5.2 | 51,394 |
| 1965 ............... | 126,513 | 74,455 | 58.9 | 71,088 | 56.2 | 4,361 | 66,726 | 3,366 | 4.5 | 52,058 |
| 1966 ............... | 128,058 | 75,770 | 59.2 | 72,895 | 56.9 | 3,979 | 68,915 | 2,875 | 3.8 | 52,288 |
| 1967 | 129,874 | 77,347 | 59.6 | 74,372 | 57.3 | 3,844 | 70,527 | 2,975 | 3.8 | 52,527 |
| 1968 .............. | 132,028 | 78,737 | 59.6 | 75,920 | 57.5 | 3,817 | 72,103 | 2,817 | 3.6 | 53,291 |
| 1969 ............... | 134,335 | 80,734 | 60.1 | 77,902 | 58.0 | 3,606 | 74,296 | 2,832 | 3.5 | 53,602 |
| 1970 .............. | 137,085 | 82,771 | 60.4 | 78,678 | 57.4 | 3,463 | 75,215 | 4,093 | 4.9 | 54,315 |
| 1971 .............. | 140,216 | 84,382 | 60.2 | 79,367 | 56.6 | 3,394 | 75,972 | 5,016 | 5.9 | 55,834 |
| $19721 . . . . . . . . . . . . ~$ | 144,126 | 87,034 | 60.4 | 82,153 | 57.0 | 3,484 | 78,669 | 4,882 | 5.6 | 57,091 |
| 19731 ............. | 147,096 | 89,429 | 60.8 | 85,064 | 57.8 | 3,470 | 81,594 | 4,365 | 4.9 | 57,667 |
| 1974 .............. | 150,120 | 91,949 | 61.3 | 86,794 | 57.8 | 3,515 | 83,279 | 5,156 | 5.6 | 58,171 |
| 1975 .............. | 153,153 | 93,775 | 61.2 | 85,846 | 56.1 | 3,408 | 82,438 | 7,929 | 8.5 | 59,377 |
| 1976 ............... | 156,150 | 96,158 | 61.6 | 88,752 | 56.8 | 3,331 | 85,421 | 7,406 | 7.7 | 59,991 |
| 1977 ............... | 159,033 | 99,009 | 62.3 | 92,017 | 57.9 | 3,283 | 88,734 | 6,991 | 7.1 | 60,025 |
| $1978{ }^{1}$............. | 161,910 | 102,251 | 63.2 | 96,048 | 59.3 | 3,387 | 92,661 | 6,202 | 6.1 | 59,659 |
| 1979 ............... | 164,863 | 104,962 | 63.7 | 98,824 | 59.9 | 3,347 | 95,477 | 6,137 | 5.8 | 59,900 |
| 1980 .............. | 167,745 | 106,940 | 63.8 | 99,303 | 59.2 | 3,364 | 95,938 | 7,637 | 7.1 | 60,806 |
| 1981 ............... | 170,130 | 108,670 | 63.9 | 100,397 | 59.0 | 3,368 | 97,030 | 8,273 | 7.6 | 61,460 |
| 1982 .............. | 172,271 | 110,204 | 64.0 | 99,526 | 57.8 | 3,401 | 96,125 | 10,678 | 9.7 | 62,067 |
| 1983 .............. | 174,215 | 111,550 | 64.0 | 100,834 | 57.9 | 3,383 | 97,450 | 10,717 | 9.6 | 62,665 |
| 1984 .............. | 176,383 | 113,544 | 64.4 | 105,005 | 59.5 | 3,321 | 101,685 | 8,539 | 7.5 | 62,839 |
| 1985 .............. | 178,206 | 115,461 | 64.8 | 107,150 | 60.1 | 3,179 | 103,971 | 8,312 | 7.2 | 62,744 |
| $1986^{1}$............. | 180,587 | 117,834 | 65.3 | 109,597 | 60.7 | 3,163 | 106,434 | 8,237 | 7.0 | 62,752 |
| 1987 ............... | 182,753 | 119,865 | 65.6 | 112,440 | 61.5 | 3,208 | 109,232 | 7,425 | 6.2 | 62,888 |
| 1988 .............. | 184,613 | 121,669 | 65.9 | 114,968 | 62.3 | 3,169 | 111,800 | 6,701 | 5.5 | 62,944 |
| 1989 ............... | 186,393 | 123,869 | 66.5 | 117,342 | 63.0 | 3,199 | 114,142 | 6,528 | 5.3 | 62,523 |
| $1990^{1}$............. | 189,164 | 125,840 | 66.5 | 118,793 | 62.8 | 3,223 | 115,570 | 7,047 | 5.6 | 63,324 |
| 1991 .............. | 190,925 | 126,346 | 66.2 | 117,718 | 61.7 | 3,269 | 114,449 | 8,628 | 6.8 | 64,578 |
| 1992 ............... | 192,805 | 128,105 | 66.4 | 118,492 | 61.5 | 3,247 | 115,245 | 9,613 | 7.5 | 64,700 |
| 1993 .............. | 194,838 | 129,200 | 66.3 | 120,259 | 61.7 | 3,115 | 117,144 | 8,940 | 6.9 | 65,638 |
| $1994^{1}$............. | 196,814 | 131,056 | 66.6 | 123,060 | 62.5 | 3,409 | 119,651 | 7,996 | 6.1 | 65,758 |
| 1995 .............. | 198,584 | 132,304 | 66.6 | 124,900 | 62.9 | 3,440 | 121,460 | 7,404 | 5.6 | 66,280 |
| 1996.............. | 200,591 | 133,943 | 66.8 | 126,708 | 63.2 | 3,443 | 123,264 | 7,236 | 5.4 | 66,647 |
| $1997{ }^{1}$............ | 203,133 | 136,297 | 67.1 | 129,558 | 63.8 | 3,399 | 126,159 | 6,739 | 4.9 | 66,837 |
|  | Monthly data, seasonally adjusted ${ }^{2}$ |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| 1997: |  |  |  |  |  |  |  |  |  |  |
| May .............. | 202,832 | 136,060 | 67.1 | 129,494 | 63.8 | 3,418 | 126,076 | 6,566 | 4.8 | 66,772 |
| June ............. | 203,000 | 136,206 | 67.1 | 129,392 | 63.7 | 3,389 | 126,003 | 6,814 | 5.0 | 66,794 |
| July | 203,166 | 136,294 | 67.1 | 129,661 | 63.8 | 3,452 | 126,209 | 6,633 | 4.9 | 66,872 |
| August ......... | 203,364 | 136,404 | 67.1 | 129,747 | 63.8 | 3,379 | 126,368 | 6,657 | 4.9 | 66,960 |
| September .... | 203,570 | 136,439 | 67.0 | 129,761 | 63.7 | 3,422 | 126,339 | 6,678 | 4.9 | 67,131 |
| October ......... | 203,767 | 136,406 | 66.9 | 129,910 | 63.8 | 3,327 | 126,583 | 6,496 | 4.8 | 67,361 |
| November ..... | 203,941 | 136,864 | 67.1 | 130.575 | 64.0 | 3,384 | 127,191 | 6,289 | 4.6 | 67,077 |
| December ..... | 204,098 | 137,169 | 67.2 | 130,777 | 64.1 | 3,385 | 127,392 | 6,392 | 4.7 | 66,929 |
| 1998: |  |  |  |  |  |  |  |  |  |  |
| January ${ }^{3}$...... | 204,238 | 137,493 | 67.3 | 131,083 | 64.2 | 3,319 | 127,764 | 6,409 | 4.7 | 66,745 |
| February ....... | 204,400 | 137,557 | 67.3 | 131,163 | 64.2 | 3,335 | 127,829 | 6,393 | 4.6 | 66,844 |
| March ............ | 204,547 | 137,523 | 67.2 | 130,994 | 64.0 | 3,132 | 127,862 | 6,529 | 4.7 | 67,024 |
| April ............. | 204,731 | 137,242 | 67.0 | 131,383 | 64.2 | 3,350 | 128,033 | 5,859 | 4.3 | 67,489 |
| May .............. | 204,899 | 137,364 | 67.0 | 131,453 | 64.2 | 3,335 | 128,118 | 5,910 | 4.3 | 67,535 |

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

2 The population figures are not adjusted for seasonal variation.
${ }^{3}$ Beginning in January 1998, data are not strictly comparable with data
for 1997 and earlier years because of the introduction of new composite estimation procedures and revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1998" in the February 1998 issue of this publication.

A-2. Employment status of the civilian noninstitutional population 16 years and over by sex, 1986 to date
(Numbers in thousands)

" Not strictly comparable with prior years. For an explanation, see "Historical Comparability" under the Household Data section of the Explanatory Notes and Estimates of Error.
${ }_{2}$ The population figures are not adjusted for seasonal variation.
${ }^{3}$ Beginning in January 1998, data are not strictly comparable with data for 1997 and
earfier years because of the introduction of new composite estimation procedures and revisions in the population controls used in the household survey. For additional information, see "Revisions in the Current Population Survey Effective January 1998" in the February 1998 issue of this publication.

## HOUSEHOLD DATA

## SEASONALLY ADJUSTED

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

(Numbers in thousands)

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[t]{2}{*}{Employment status, sex, and age} \& \multicolumn{8}{|c|}{1997} \& \multicolumn{5}{|c|}{1998} <br>
\hline \& May \& June \& July \& Aug. \& Sept. \& Oct. \& Nov. \& Dec. \& Jan. \& Feb. \& Mar. \& Apr. \& May <br>
\hline \multicolumn{14}{|l|}{AL} <br>
\hline Civilian noninstitutional population ${ }^{1}$ \& 2,832 \& 203,000 \& 203,166 \& 203,364 \& 203,570 \& 203,767 \& 203,941 \& 204,098 \& 204,238 \& 204,400 \& 204,547 \& 204,731 \& 204,899 <br>
\hline Civilian labor force \& 136,060 \& 136,206 \& 136,294 \& 136,404 \& 136,439 \& 136,406 \& 136,864 \& 137,169 \& 137,493 \& 137,557 \& 137,523 \& 137,242 \& 137,364 <br>
\hline Percent of population \& 67.1 \& 67.1 \& 67.1 \& 67.1 \& 67.0 \& 66.9 \& 67.1 \& 67.2 \& 67.3 \& 67.3 \& 67.2 \& 67.0 \& 67.0 <br>
\hline Employed \& 129,494 \& 129,392 \& 129,661 \& 129,747 \& 129,761 \& 129,910 \& 130,575 \& 130,777 \& 131,083 \& 131,163 \& 130,994 \& 131,383 \& 131,453 <br>
\hline Employment-population ratio \& 63.8 \& 63.7 \& 63.8 \& 63.8 \& 63.7 \& 63.8 \& 64.0 \& 64.1 \& 64.2 \& 64.2 \& 64.0 \& 64.2 \& 64.2 <br>
\hline nemployed ......... \& 6,566 \& 6,814 \& 6,633 \& 6,657 \& 6,678 \& 6,496 \& 6,289 \& 6,392 \& 6,409 \& 6,393 \& 6,529 \& 5,859 \& 5,910 <br>
\hline Unemployment rate \& 4.8 \& 5.0 \& 4.9 \& 4.9 \& 4.9 \& 4.8 \& 4.6 \& 4.7 \& 4.7 \& 4.6 \& 4.7 \& 4.3 \& 4.3 <br>
\hline Men, 16 years and over Civilian noninstitutional population \& 97,559 \& 97,649 \& 97,733 \& 97,838 \& 97,946 \& 98,050 \& 98,141 \& 98,225 \& 98,241 \& 98,331 \& 98,405 \& 98,503 \& 98,591 <br>
\hline Civilian labor force \& 73,089 \& 73,225 \& 73,218 \& 73,265 \& 73, 192 \& 73,311 \& 73,682 \& 73,662 \& 73,852 \& 73,780 \& 73,695 \& 73,799 \& 73,783 <br>
\hline Percent of population \& 74.9 \& 75.0 \& 74.9 \& 74.9 \& 74.7 \& 74.8 \& 75.1 \& 75.0 \& 75.2 \& 75.0 \& 74.9 \& 74.9 \& 74.8 <br>
\hline Employed \& 69,765 \& 69,586 \& 69,711 \& 69,748 \& 69,656 \& 69,785 \& 70,352 \& 70,195 \& 70,518 \& 70,459 \& 70,297 \& 70,831 \& 70,685 <br>
\hline Employment-population ratio \& 71.5 \& 71.3 \& 71.3 \& 71.3 \& 71.1 \& 71.2 \& 71.7 \& 71.5 \& 71.8 \& 71.7 \& 71.4 \& 71.9 \& 71.7 <br>
\hline Agriculture \& 2,610 \& 2,583 \& 2,572 \& 2,504 \& 2,552 \& 2,468 \& 2,503 \& 2,497 \& 2,463 \& 2,458 \& 2,356 \& 2,584 \& 2,492 <br>
\hline Nonagricultural industries \& 67,155 \& 67,003 \& 67,139 \& 67,244 \& 67,104 \& 67,317 \& 67,849 \& 67,698 \& 68,056 \& 68,001 \& 67,941 \& 68,246 \& 68,193 <br>
\hline Unemployed .. \& 3,324 \& 3,639 \& 3,507 \& 3,517 \& 3,536 \& 3,526 \& 3,330 \& 3,467 \& 3,333 \& 3,320 \& 3,399 \& 2,969 \& 3,098 <br>
\hline Unemployment rate \& 4.5 \& 5.0 \& 4.8 \& 4.8 \& 4.8 \& 4.8 \& 4.5 \& 4.7 \& 4.5 \& 4.5 \& 4.6 \& 4.0 \& 4.2 <br>
\hline Not in labor force \& 24,470 \& 24,424 \& 24,515 \& 24,573 \& 24,754 \& 24,739 \& 24,459 \& 24,563 \& 24,389 \& 24,551 \& 24,710 \& 24,704 \& 24,808 <br>
\hline \multicolumn{14}{|l|}{Men, 20 years and over} <br>
\hline Civilian noninstitutional population ${ }^{1}$ \& 89,766 \& 89,829 \& 89,888 \& \multirow[t]{2}{*}{89,982
69,198} \& \multirow[t]{2}{*}{90,068} \& 90,140 \& 90,251 \& 90,339 \& 90,391 \& 90,476 \& 90,502 \& 90,580 \& 90,622 <br>
\hline Civilian labor force \& 68,990 \& 69,157 \& 69,171 \& \& \& 69,193 \& 69,500 \& 69,561 \& 69,652 \& 69,601 \& 69,451 \& 69,697 \& 69,624 <br>
\hline Percent of population \& \multirow[t]{2}{*}{} \& \multirow[t]{2}{*}{77.0
66,258} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
77.0 \\
66,361
\end{array}
$$} \& \multirow[t]{2}{*}{76.9
66,386} \& \multirow[t]{2}{*}{76.8
66,298} \& \multirow[t]{2}{*}{76.8
66,337} \& \multirow[t]{2}{*}{77.0
66,824} \& \multirow[t]{2}{*}{77.0
66,676} \& \multirow[t]{2}{*}{77.1
67,008} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
76.9 \\
66,990
\end{array}
$$} \& 76.7 \& 76.9 \& 76.8 <br>
\hline Employed ... \& \& \& \& \& \& \& \& \& \& \& 66,753 \& 67,301 \& 67,190 <br>
\hline Employment \& 73.9 \& 73.8 \& 73.8 \& 73.8 \& 73.6 \& 73.6 \& 74.0 \& 73.8 \& 74.1 \& 74.0 \& 73.8 \& 74.3 \& 74.1 <br>
\hline Agriculture \& 2,402 \& \multirow[t]{2}{*}{2,398
63,860} \& \multirow[t]{2}{*}{2,390} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
2,311 \\
64,075
\end{array}
$$} \& \multirow[t]{2}{*}{2,383} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
2,298 \\
64,039
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
2,323 \\
64,501
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
2,314 \\
64,362 \\
\hline
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
2,282 \\
64,726
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
2,264 \\
64,726
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
2,168 \\
64,585
\end{array}
$$} \& \multirow[t]{2}{*}{r $\begin{array}{r}2,420 \\ 64,881\end{array}$} \& \multirow[t]{2}{*}{2,324
64,866} <br>
\hline Nonagricultural industries \& 63,907 \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Unemployed \& \multirow[t]{3}{*}{$$
\begin{array}{r}
2,681 \\
30.9 \\
20,776
\end{array}
$$} \& \multirow[t]{3}{*}{2,899
4.2
20,672} \& \multirow[t]{3}{*}{$$
\begin{array}{r}
2,810 \\
4.1 \\
20,717
\end{array}
$$} \& \multirow[t]{3}{*}{$$
\begin{array}{r}
2,812 \\
4.1 \\
20,784
\end{array}
$$} \& \multirow[t]{3}{*}{2,838
4.1
20,932} \& \multirow[t]{3}{*}{2,856
4.1
20,147} \& \multirow[t]{3}{*}{[ $\begin{array}{r}2,676 \\ 3.9 \\ 20,751\end{array}$} \& \multirow[t]{3}{*}{r $\begin{array}{r}2,885 \\ 4.1 \\ 20,778\end{array}$} \& \multirow[t]{3}{*}{2,644
3.8
20,338} \& \multirow[t]{3}{*}{2,611
3.8
20,875} \& \multirow[t]{3}{*}{$$
\begin{array}{r}
2,699 \\
31.09 \\
21,051
\end{array}
$$} \& 2,396 \& 2,434 <br>
\hline Unemployment rate \& \& \& \& \& \& \& \& \& \& \& \& \multirow[t]{2}{*}{$$
\begin{array}{r}
3.4 \\
00,883
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
3.5 \\
20,998
\end{array}
$$} <br>
\hline Not in labor force. \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Women, 16 years and over Civilian noninstitutional population' \& 105,274 \& \& 105,43 \& 105,527 \& \& \& \& 105,873 \& \& 106,070 \& \& \& <br>
\hline Civilian labor force \& 62,971 \& 105,351 \& -105,433 \& 105,527 \& 105,623
63,247 \& 105,718
63,095 \& 105,799 \& 63,507 \& 105,997 \& 63,777 \& 106,1 \& -63,443 \& \multirow[t]{2}{*}{63,581} <br>
\hline Percent of population \& 59.8 \& 59.8 \& 59.8 \& 59.8 \& 59.9 \& 59.7 \& \multirow[t]{2}{*}{60,223} \& \multirow[t]{2}{*}{60,582} \& 60.0 \& 60.1 \& 60.1 \& 59.7 \& <br>
\hline Employed ... \& 59,729
56.7 \& \multirow[t]{2}{*}{59,806
56.8} \& \multirow[t]{2}{*}{59,950
56.9} \& 59,999 \& \multirow[t]{2}{*}{60,105
56.9} \& 60,125 \& \& \& 60,565 \& 60,704 \& 60,697 \& 60,553 \& 60,768 <br>
\hline Employment \& \multirow[t]{3}{*}{56.7
808
58,921} \& \& \& 56.9 \& \& 56.9 \& 56.9 \& 57.2 \& \multirow[t]{2}{*}{856} \& 57.2 \& \multirow[t]{2}{*}{776} \& 57.0 \& <br>
\hline Agriculture ... \& \& \multirow[t]{2}{*}{$$
\begin{array}{r}
806 \\
59,000
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
880 \\
59,070
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
875 \\
59,124 \\
\hline
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
870 \\
59,235
\end{array}
$$} \& 859 \& 881 \& 888 \& \& 876 \& \& 766 \& 57.2

844 <br>

\hline Nonagricultural industries \& \& \& \& \& \& \multirow[t]{3}{*}{$$
\begin{array}{r}
59,266 \\
2,970 \\
4.7
\end{array}
$$} \& \multirow[t]{2}{*}{[59,342} \& \multirow[t]{2}{*}{59,694

2,925} \& \multirow[t]{2}{*}{59,709

3,076} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
59,827 \\
3,073
\end{array}
$$} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
59,921 \\
3,130
\end{array}
$$
\]} \& 59,787 \& 59,924 <br>

\hline Unemployed. \& \multirow[t]{2}{*}{$$
\begin{array}{r}
3,242 \\
5.1
\end{array}
$$} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
59,000 \\
3,175 \\
5.0
\end{array}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
3,126 \\
5.0
\end{array}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
3,140 \\
5.0
\end{array}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
3,142 \\
5.0
\end{array}
$$
\]} \& \& \& \& \& \& \& 2,890 \& \multirow[b]{3}{*}{2,44

42,427} <br>

\hline Unemployment rate \& \& \& \& \& \& \& \multirow[t]{2}{*}{$$
\begin{array}{r}
4.7 \\
42,617
\end{array}
$$} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
4.6 \\
42,366
\end{array}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
4.8 \\
42,356
\end{array}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
4.8 \\
42,293
\end{array}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
4.9 \\
42,314
\end{array}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r|r|}
\hline, 090 \\
4.6 \\
42,785
\end{array}
$$
\]} \& <br>

\hline Not in labor force \& 42,303 \& 42,370 \& $$
\begin{array}{r}
5.0 \\
42,357
\end{array}
$$ \& \[

$$
\begin{array}{r}
5.0 \\
42,388
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
5.0 \\
42,376
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
4.7 \\
42,623
\end{array}
$$
\] \& \& \& \& \& \& \& <br>

\hline Women, 20 years and over Civillan noninstitutional population ${ }^{1}$ \& 97,767 \& 97,834 \& 97,919 \& 98,000 \& 98,082 \& \multirow[t]{2}{*}{98,144} \& \multirow[t]{2}{*}{98,212} \& 98,300 \& 98,420 \& $$
98,471
$$ \& \& \multicolumn{2}{|l|}{} <br>

\hline Civilian labor force. \& \multirow[t]{2}{*}{$$
\begin{array}{r}
59,129 \\
60.5
\end{array}
$$} \& \multirow[t]{2}{*}{59,195

60.5} \& \& 59,362 \& 59,432 \& \& \& 59,624 \& 59,652 \& 59,721 \& 59,771 \& 59,486 \& 59,573 <br>
\hline Percent of population \& \& \& 60.5 \& 60.6 \& 60.6 \& 60.5 \& 60.4 \& 60.7 \& 60.6 \& 60.6 \& 60.7 \& 60.3 \& 60.4 <br>
\hline Employed \& 56,488 \& 56,575 \& 56,693 \& 56,789 \& 56,883 \& 56,919 \& 56,953 \& 57,255 \& 57,040 \& 57,146 \& 57,186 \& 57,075 \& 57,253 <br>
\hline Employment-population ratio . \& 57.8 \& 57.8 \& 57.9 \& 57.9 \& 58.0 \& 58.0 \& 58.0 \& 58.2 \& 58.0 \& 58.0 \& 58.0 \& 57.9 \& 58.0 <br>
\hline Agriculture \& 760 \& 755 \& 831 \& 824 \& 826 \& 814 \& 833 \& 845 \& 811 \& 801 \& 717 \& 705 \& 755 <br>
\hline Nonagricultural industries \& 55,728 \& 55,820 \& 55,862 \& 55,965 \& 56,057 \& 56,105 \& 56,120 \& 56,410 \& 56,229 \& 56,345 \& 56,470 \& 56,370 \& 56,499 <br>
\hline Unemployed \& 2,641 \& 2,620 \& 2,539 \& 2,573 \& 2,549 \& 2,419 \& 2,395 \& 2,369 \& 2,612 \& 2,575 \& 2,585 \& 2,411 \& 2,320 <br>
\hline Unemployment rate \& 4.5 \& 4.4 \& 4.3 \& 4.3 \& 4.3 \& 4.1 \& 4.0 \& 4.0 \& 4.4 \& 4.3 \& 4.3 \& 4.1 \& 3.9 <br>
\hline Not in labor force \& 38,638 \& 38,639 \& 38,687 \& 38,638 \& 38,650 \& 38,806 \& 38,864 \& 38,676 \& 38,768 \& 38,750 \& 38,762 \& 39,097 \& 39,095 <br>
\hline Both sexes, 16 to 19 years \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Civilian noninstitutional population ${ }^{1}$.. \& 15,300 \& 15,336 \& 15,359 \& 15,382 \& 15,420 \& 15,483 \& 15,478 \& 15,459 \& 15,427 \& 15,453 \& 15,511 \& 15,569 \& 15,609 <br>
\hline Civilian labor force \& 7,941 \& 7,854 \& 7,891 \& 7,844 \& 7,871 \& 7,875 \& 8,016 \& 7,984 \& 8,189 \& 8,235 \& 8,300 \& 8,059 \& 8,166 <br>
\hline Percent of population \& 51.9 \& 51.2 \& 51.4 \& 51.0 \& 51.0 \& 50.9 \& 51.8 \& 51.6 \& 53.1 \& 53.3 \& 53.5 \& 51.8 \& 52.3 <br>
\hline Employed \& 6,697 \& 6,559 \& 6,607 \& 6,572 \& 6,580 \& 6,654 \& 6,798 \& 6,846 \& 7,035 \& 7,028 \& 7,055 \& 7,007 \& 7,010 <br>
\hline Employment-population ratio \& 43.8 \& 42.8 \& 43.0 \& 42.7 \& 42.7 \& 43.0 \& 43.9 \& 44.3 \& 45.6 \& 45.5 \& 45.5 \& 45.0 \& 44.9 <br>
\hline Agriculture \& 256 \& 236 \& 231 \& 244 \& 213 \& 215 \& 228 \& 226 \& 227 \& 270 \& 247 \& 225 \& 256 <br>
\hline Nonagricultural industries \& 6,441 \& 6,323 \& 6,376 \& 6,328 \& 6,367 \& 6,439 \& 6,570 \& 6,620 \& 6,809 \& 6,758 \& 6,808 \& 6,782 \& 6,754 <br>
\hline Unemployed \& 1,244 \& 1,295 \& 1,284 \& 1,272 \& 1,291 \& 1,221 \& 1,218 \& 1,138 \& 1,154 \& 1,207 \& 1,245 \& 1,052 \& 1,156 <br>
\hline Unemployment rate \& 15.7 \& 16.5 \& 16.3 \& 16.2 \& 16.4 \& 15.5 \& 15.2 \& 14.3 \& 14.1 \& 14.7 \& 15.0 \& 13.1 \& 14.2 <br>
\hline Not in labor force ... \& 7,359 \& 7,482 \& 7,468 \& 7,538 \& 7,549 \& 7,608 \& 7,462 \& 7,475 \& 7,238 \& 7,218 \& 7,210 \& 7,510 \& 7,442 <br>
\hline
\end{tabular}

1 The population figures are not adjusted for seasonal variation.
NOTE: Detail for the seasonally adjusted data shown in tables A-3 through A-13 will not necessarily add to totals because of the independent seasonal
adjustment of the various series. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.
(Numbers in thousands)

| Employment status, race, sex, age, and Hispanic origin | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| WHITE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$.. | 169,782 | 169,897 | 170,010 | 170,148 | 170,290 | 170,427 | 170,545 | 170,649 | 170,810 | 170,917 | 171,016 | 171,141 | 171,257 |
| Civilian labor force ........................... | 114,562 | 114,659 | 114,622 | 114,669 | 114,758 | 114,784 | 115,073 | 115,263 | 115,253 | 115,392 | 115,297 | 115,057 | 115,309 |
| Percent of population .................... | 67.5 | 67.5 | 67.4 | 67.4 | 67.4 | 67.4 | 67.5 | 67.5 | 67.5 | 67.5 | 67.4 | 67.2 | 67.3 |
| Employed | 109,906 | 109,779 | 109,851 | 109,832 | 109,904 | 110,063 | 110,604 | 110,729 | 110,698 | 110,842 | 110,605 | 110,859 | 111,025 |
| Employment-population ratio ..... | 64.7 | 64.6 | 64.6 | 64.6 | 64.5 | 64.6 | 64.9 | 64.9 | 64.8 | 64.9 | 64.7 | 64.8 | 64.8 |
| Unemployed ................................. | 4,656 | 4,880 | 4,771 | 4,837 | 4,854 | 4,721 | 4,469 | 4,534 | 4,555 | 4,550 | 4,692 | 4,198 | 4,284 |
| Unemployment rate | 4.1 | 4.3 | 4.2 | 4.2 | 4.2 | 4.1 | 3.9 | 3.9 | 4.0 | 3.9 | 4.1 | 3.6 | 3.7 |
| Men, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 59,001 | 59,086 | 59,096 | 59,118 | 59,110 | 59,098 | 59,355 | 59,389 | 59,262 | 59,372 | 59,201 | 59,307 | 59,366 |
| Percent of population .. | 77.4 | 77.5 | 77.4 | 77.4 | 77.3 | 77.2 | 77.5 | 77.5 | 77.3 | 77.4 | 77.1 | 77.2 | 77.2 |
| Employed ..................................... | 57,033 | 56,967 | 57,011 | 57,011 | 56,989 | 56,966 | 57,363 | 57,272 | 57,336 | 57,456 | 57,209 | 57,562 | 57,516 |
| Employment-population ratio | 74.8 | 74.7 | 74.7 | 74.6 | 74.5 | 74.4 | 74.9 | 74.7 | 74.8 | 74.9 | 74.5 | 74.9 | 74.8 |
| Unemployed ................................ | 1,968 | 2,119 | 2,085 | 2,107 | 2,121 | 2,132 | 1,992 | 2,117 | 1,926 | 1,916 | 1,992 | 1,745 | 1,850 |
| Unemployment rate ...................... | 3.3 | 3.6 | 3.5 | 3.6 | 3.6 | 3.6 | 3.4 | 3.6 | 3.3 | 3.2 | 3.4 | 2.9 | 3.1 |
| Women, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 48,845 | 48,877 | 48,790 | 48,910 | 48,955 | 48,976 | 48,906 | 49,134 | 49,077 | 49,057 | 49,077 | 48,955 | 49,019 |
| Percent of population .................... | 60.0 | 60.0 | 59.9 | 60.0 | 60.0 | 60.0 | 59.9 | 60.1 | 60.0 | 59.9 | 59.9 | 59.7 | 59.8 |
| Employed ..................................... | 47,022 | 47,077 | 47,072 | 47,122 | 47,165 | 47,284 | 47,265 | 47,474 | 47,250 | 47,279 | 47,276 | 47,300 | 47,416 |
| Employment-population ratio ...... | 57.8 | 57.8 | 57.8 | 57.8 | 57.8 | 57.9 | 57.8 | 58.1 | 57.7 | 57.7 | 57.7 | 57.7 | 57.8 |
| Unemployed ................................ | 1,823 | 1,800 | 1,718 | 1,788 | 1,790 | 1,692 | 1,641 | 1,660 | 1,827 | 1,778 | 1,801 | 1,654 | 1,603 |
| Unemployment rate .................. | 3.7 | 3.7 | 3.5 | 3.7 | 3.7 | 3.5 | 3.4 | 3.4 | 3.7 | 3.6 | 3.7 | 3.4 | 3.3 |
| Both sexes, 16 to 19 years |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 6,716 | 6,696 | 6,736 | 6,641 | 6,693 | 6,710 | 6,812 | 6,740 | 6,914 | 6,963 | 7,019 | 6,795 | 6,924 |
| Percent of population .................... | 55.3 | 55.0 | 55.3 | 54.4 | 54.8 | 54.9 | 55.6 | 55.0 | 56.3 | 56.6 | 56.9 | 54.9 | 55.8 |
| Employed ... | 5,851 | 5,735 | 5,768 | 5,699 | 5,750 | 5,813 | 5,976 | 5,983 | 6,113 | 6,107 | 6,120 | 5,996 | 6,093 |
| Employment-population ratio ...... | 48.2 | 47.1 | 47.3 | 46.7 | 47.0 | 47.5 | 48.8 | 48.8 | 49.8 | 49.6 | 49.6 | 48.5 | 49.1 |
| Unemployed ................................. | 865 | 961 | 968 | 942 | 943 | 897 | 836 | 757 | 802 | 857 | 899 | 799 | 831 |
| Unemployment rate ...................... | 12.9 | 14.4 | 14.4 | 14.2 | 14.1 | 13.4 | 12.3 | 11.2 | 11.6 | 12.3 | 12.8 | 11.8 | 12.0 |
| Men | 13.0 | 15.8 | 15.0 | 15.1 | 14.4 | 14.3 | 12.8 | 11.3 | 14.2 | 14.7 | 14.9 | 12.7 | 14.0 |
| Women ................... | 12.7 | 12.8 | 13.7 | 13.1 | 13.7 | 12.3 | 11.6 | 11.1 | 8.8 | 9.8 | 10.6 | 10.7 | 9.8 |
| BLACK |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$.. | 23,950 | 23,978 | 24,006 | 24,043 | 24,081 | 24,117 | 24,149 | 24,180 | 24,196 | 24,229 | 24,257 | 24,289 | 24,317 |
| Civilian labor force | 15,424 | 15,426 | 15,524 | 15,728 | 15,691 | 15,555 | 15,638 | 15,709 | 15,788 | 15,885 | 15,971 | 15,907 | 15,756 |
| Percent of population .................... | 64.4 | 64.3 | 64.7 | 65.4 | 65.2 | 64.5 | 64.8 | 65.0 | 65.3 | 65.6 | 65.8 | 65.5 | 64.8 |
| Employed ..................................... | 13,837 | 13,836 | 14,040 | 14,237 | 14,180 | 14,067 | 14,128 | 14,149 | 14,316 | 14,349 | 14,498 | 14,499 | 14,344 |
| Employment-population ratio ...... | 57.8 | 57.7 | 58.5 | 59.2 | 58.9 | 58.3 | 58.5 | 58.5 | 59.2 | 59.2 | 59.8 | 59.7 | 59.0 |
| Unemployed ........ | 1,587 | 1,590 | 1,484 | 1,491 | 1,511 | 1,488 | 1,510 | 1,560 | 1,472 | 1,535 | 1,473 | 1,408 | 1,412 |
| Unemployment rate ...................... | 10.3 | 10.3 | 9.6 | 9.5 | 9.6 | 9.6 | 9.7 | 9.9 | 9.3 | 9.7 | 9.2 | 8.9 | 9.0 |
| Men, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ........................... | 6,851 | 6,925 | 6,946 | 7,035 | 6,978 | 6,945 | 6,965 | 6,957 | 7,012 | 6,974 | 7,044 | 7,097 | 7,009 |
| Percent of population .................... | 71.7 | 72.4 | 72.5 | 73.3 | 72.6 | 72.3 | 72.1 | 72.0 | 72.6 | 72.1 | 72.8 | 73.2 | 72.2 |
| Employed ...................................... | 6,273 | 6,305 | 6,371 | 6,480 | 6,424 | 6,367 | 6,420 | 6,356 | 6,456 | 6,428 | 6,511 | 6,573 | 6,536 |
| Employment-population ratio ...... | 65.7 | 65.9 | 66.5 | 67.5 | 66.8 | 66.3 | 66.5 | 65.8 | 66.9 | 66.5 | 67.3 | 67.8 | 67.4 |
| Unemployed ................................. | 578 | 620 | 575 | 555 | 554 | 578 | 545 | 601 | 556 | 546 | 533 | 524 | 473 |
| Unemployment rate ...................... | 8.4 | 9.0 | 8.3 | 7.9 | 7.9 | 8.3 | 7.8 | 8.6 | 7.9 | 7.8 | 7.6 | 7.4 | 6.7 |
| Women, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ........................... | 7,671 | 7,617 | 7,691 | 7,771 | 7,790 | 7,680 | 7,731 | 7,791 | 7,799 | 7,952 | 7,935 | 7,822 | 7,787 |
| Percent of population .................... | 63.9 | 63.5 | 64.1 | 64.6 | 64.6 | 63.6 | 63.9 | 64.4 | 64.3 | 65.5 | 65.3 | 64.3 | 64.0 |
| Employed ..................................... | 6,968 | 6,932 | 7,048 | 7,115 | 7,135 | 7,044 | 7,080 | 7,163 | 7,178 | 7,265 | 7,284 | 7,182 | 7,130 |
| Employment-population ratio ...... | 58.1 | 57.8 | 58.7 | 59.1 | 59.2 | 58.3 | 58.6 | 59.2 | 59.2 | 59.8 | 60.0 | 59.0 | 58.6 |
| Unemployed ................................ | 703 | 685 | 643 | 656 | 655 | 636 | 651 | 628 | 621 | 687 | 651 | 640 | 657 |
| Unemployment rate ...................... | 9.2 | 9.0 | 8.4 | 8.4 | 8.4 | 8.3 | 8.4 | 8.1 | 8.0 | 8.6 | 8.2 | 8.2 | 8.4 |

See footnotes at end of table.

A-4. Employment status of the civilian noninstitutional population by race, sex, age, and Hispanic origin, seasonally adjusted - Continued
(Numbers in thousands)

| Employment status, race, sex, age, and Hispanic origin | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| BLACK-Continued Both sexes, 16 to 19 years |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 902 | 884 | 887 | 922 | 923 | 930 | 942 | 961 | 977 | 959 | 992 | 988 | 960 |
| Percent of population .................... | 37.5 | 36.5 | 36.7 | 38.3 | 38.3 | 38.2 | 39.2 | 39.8 | 40.5 | 39.6 | 40.9 | 40.6 | 39.4 |
| Employed ..................................... | 596 | 599 | 621 | 642 | 621 | 656 | 628 | 630 | 683 | 656 | 703 | 744 | 678 |
| Employment-population ratio ...... | 24.8 | 24.7 | 25.7 | 26.6 | 25.8 | 26.9 | 26.1 | 26.1 | 28.3 | 27.1 | 29.0 | 30.6 | 27.8 |
| Unemployed ................................. | 306 | 285 | 266 | 280 | 302 | 274 | 314 | 331 | 294 | 302 | 289 | 244 | 283 |
| Unemployment rate ...................... | 33.9 | 32.2 | 30.0 | 30.4 | 32.7 | 29.5 | 33.3 | 34.4 | 30.1 | 31.5 | 29.1 | 24.7 | 29.4 |
| Men .......................................... | 34.5 | 39.1 | 34.6 | 33.9 | 37.6 | 30.1 | 35.0 | 36.2 | 31.8 | 34.7 | 27.8 | 23.9 | 30.2 |
| Women .................................... | 33.3 | 25.5 | 25.9 | 27.2 | 28.6 | 28.8 | 31.9 | 33.1 | 28.5 | 28.4 | 30.3 | 25.3 | 28.8 |
| HISPANIC ORIGIN |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$.. | 20,236 | 20,293 | 20,351 | 20,407 | 20,464 | 20,519 | 20,575 | 20,629 | 20,741 | 20,798 | 20,851 | 20,915 | 20,975 |
| Civilian labor force ........................... | 13,760 | 13,814 | 13,861 | 13,886 | 13,861 | 13,896 | 13,880 | 13,973 | 13,954 | 14,149 | 14,298 | 14,369 | 14,458 |
| Percent of population .................... | 68.0 | 68.1 | 68.1 | 68.0 | 67.7 | 67.7 | 67.5 | 67.7 | 67.3 | 68.0 | 68.6 | 68.7 | 68.9 |
| Employed ..................................... | 12,713 | 12,751 | 12,772 | 12,867 | 12,807 | 12,806 | 12,921 | 12,921 | 12,988 | 13,181 | 13,305 | 13,434 | 13,480 |
| Employment-population ratio ...... | 62.8 | 62.8 | 62.8 | 63.1 | 62.6 | 62.4 | 62.8 | 62.6 | 62.6 | 63.4 | 63.8 | 64.2 | 64.3 |
| Unemployed ................................ | 1,047 | 1,063 | 1,089 | 1,019 | 1,054 | 1,090 | 959 | 1,052 | 966 | 968 | 993 | 935 | 978 |
| Unemployment rate ........................ | 7.6 | 7.7 | 7.9 | 7.3 | 7.6 | 7.8 | 6.9 | 7.5 | 6.9 | 6.8 | 6.9 | 6.5 | 6.8 |

1 The population figures are not adjusted for seasonal variation.
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. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

A-5. Employment status of the civilian noninstitutional population 25 years and over by educational attainment, seasonally adjusted
(Numbers in thousands)

| Educational attainment | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| Less than a high school diploma |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$...................... | 30,198 | 29,924 | 29,288 | 29,314 | 29,350 | 29,046 | 29,505 | 29,566 | 29,981 | 29,228 | 29,251 | 29,638 | 29,931 |
| Civilian labor force ........................................... | 12,590 | 12,608 | 12,554 | 12,534 | 12,555 | 12,468 | 12,511 | 12,555 | 12,682 | 12,555 | 12,392 | 12,664 | 12,690 |
| Percent of population | 41.7 | 42.1 | 42.9 | 42.8 | 42.8 | 42.9 | 42.4 | 42.5 | 42.3 | 43.0 | 42.4 | 42.7 | 42.4 |
| Employed. | 11,556 | 11,575 | 11,579 | 11,573 | 11,548 | 11,502 | 11,575 | 11,606 | 11,771 | 11,676 | 11,500 | 11,773 | 11,839 |
| Employment-population ratio | 38.3 | 38.7 | 39.5 | 39.5 | 39.3 | 39.6 | 39.2 | 39.3 | 39.3 | 39.9 | 39.3 | 39.7 | 39.6 |
| Unemployed | 1,034 | 1,033 | 975 | 961 | 1,007 | 966 | 936 | 949 | 911 | 879 | 891 | 891 | 851 |
| Unemployment rate ...... | 8.2 | 8.2 | 7.8 | 7.7 | 8.0 | 7.7 | 7.5 | 7.6 | 7.2 | 7.0 | 7.2 | 7.0 | 6.7 |
| High school graduates, no college ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$ | 57,392 | 57,643 | 57,581 | 57,607 | 57,483 | 57,459 | 57,310 | 57,631 | 57,606 | 57,418 | 57,885 | 57,484 | 57,706 |
| Civilian labor force | 37,669 | 37,826 | 37,987 | 37,842 | 37,585 | 37,759 | 37,641 | 37,827 | 37,787 | 37,807 | 37,931 | 37,340 | 37,496 |
| Percent of population ................................... | 65.6 | 65.6 | 66.0 | 65.7 | 65.4 | 65.7 | 65.7 | 65.6 | 65.6 | 65.8 | 65.5 | 65.0 | 65.0 |
| Employed. | 36,097 | 36,174 | 36,382 | 36,225 | 36,003 | 36,179 | 36,193 | 36,287 | 36,303 | 36,302 | 36,331 | 35,885 | 36,114 |
| Employment-population ratio | 62.9 | 62.8 | 63.2 | 62.9 | 62.6 | 63.0 | 63.2 | 63.0 | 63.0 | 63.2 | 62.8 | 62.4 | 62.6 |
| Unemployed .............. | 1,572 | 1,652 | 1,605 | 1,617 | 1,582 | 1,580 | 1,448 | 1,540 | 1,485 | 1,505 | 1,600 | 1,454 | 1,383 |
| Unemployment rate | 4.2 | 4.4 | 4.2 | 4.3 | 4.2 | 4.2 | 3.8 | 4.1 | 3.9 | 4.0 | 4.2 | 3.9 | 3.7 |
| Less than a bachelor's degree ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$ | 41,648 | 41,747 | 42,322 | 42,401 | 42,075 | 42,613 | 42.417 | 42,085 | 41,718 | 42,527 | 42,313 | 42,303 | 42,024 |
| Civilian labor force | 31,279 | 31,333 | 31,227 | 31,445 | 31,401 | 31,328 | 31,544 | 31,506 | 31,440 | 31,505 | 31,515 | 31,517 | 31,408 |
| Percent of population | 75.1 | 75.1 | 73.8 | 74.2 | 74.6 | 73.5 | 74.4 | 74.9 | 75.4 | 74.1 | 74.5 | 74.5 | 74.7 |
| Employed. | 30,342 | 30,316 | 30,239 | 30,438 | 30,382 | 30,410 | 30,574 | 30,484 | 30,429 | 30,538 | 30,471 | 30,669 | 30,437 |
| Employment-population ratio | 72.9 | 72.6 | 71.4 | 71.8 | 72.2 | 71.4 | 72.1 | 72.4 | 72.9 | 71.8 | 72.0 | 72.5 | 72.4 |
| Unemployed | 937 | 1,017 | 988 | 1,007 | 1,019 | 918 | 970 | 1,022 | 1,011 | 967 | 1,043 | 848 | 971 |
| Unemployment rate .................................... | 3.0 | 3.2 | 3.2 | 3.2 | 3.2 | 2.9 | 3.1 | 3.2 | 3.2 | 3.1 | 3.3 | 2.7 | 3.1 |
| College graduates |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$...................... | 40,909 | 40,955 | 41,171 | 41,232 | 41,769 | 41,696 | 41,739 | 41,822 | 41,974 | 42,238 | 42,085 | 42,197 | 42,090 |
| Civilian labor force | 32,971 | 33,036 | 33,159 | 33,290 | 33,577 | 33,510 | 33,505 | 33,678 | 33,685 | 33,672 | 33,777 | 33,989 | 33,920 |
| Percent of population ................................... | 80.6 | 80.7 | 80.5 | 80.7 | 80.4 | 80.4 | 80.3 | 80.5 | 80.3 | 79.7 | 80.3 | 80.5 | 80.6 |
| Employed ......... | 32,265 | 32,356 | 32,474 | 32,592 | 32,891 | 32,868 | 32,916 | 33,083 | 33,040 | 33,029 | 33,145 | 33,419 | 33,364 |
| Employment-population ratio | 78.9 | 79.0 | 78.9 | 79.0 | 78.7 | 78.8 | 78.9 | 79.1 | 78.7 | 78.2 | 78.8 | 79.2 | 79.3 |
| Unemployed | 706 | 680 | 685 | 698 | 686 | 642 | 589 | 595 | 645 | 643 | 632 | 571 | 556 |
| Unemployment rate ............................ | 2.1 | 2.1 | 2.1 | 2.1 | 2.0 | 1.9 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 | 1.7 | 1.6 |

1 The population figures are not adjusted for seasonal variation.
2 Includes high school diploma or equivalent.
${ }^{3}$ Includes the categories, some college, no degree; and associate degree.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

## A-6. Employed and unemployed full- and part-time workers by sex and age, seasonally adjusted

(Numbers in thousands)

| Full- and part-time status, sex, and age | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| EMPLOYED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time workers | 106,095 | 106,343 | 106,548 | 106,672 | 106,926 | 106,824 | 107,491 | 107,452 | 107,777 | 107,788 | 107,696 | 108,107 | 108,155 |
| Men, 16 years and over | 62,160 | 62,245 | 62,332 | 62,376 | 62,487 | 62,439 | 63,014 | 62,829 | 62,909 | 62,810 | 62,740 | 63,092 | 63,098 |
| Men, 20 years and over | 60,863 | 60,976 | 61,038 | 61,101 | 61,197 | 61,142 | 61,672 | 61,505 | 61,652 | 61,534 | 61,434 | 61,810 | 61,742 |
| Women, 16 years and over | 43,912 | 44,146 | 44,304 | 44,375 | 44,436 | 44,369 | 44,452 | 44,589 | 44,741 | 44,869 | 44,855 | 44,957 | 44,983 |
| Women, 20 years and over | 43,085 | 43,281 | 43,364 | 43,468 | 43,518 | 43,479 | 43,546 | 43,691 | 43,856 | 43,898 | 43,810 | 43,997 | 44,017 |
| Both sexes, 16 to 19 years ................ | 2,147 | 2,086 | 2,146 | 2,103 | 2,211 | 2,203 | 2,273 | 2,256 | 2,268 | 2,356 | 2,452 | 2,300 | 2,396 |
| Part-time workers | 23,327 | 22,987 | 23,016 | 23,061 | 23,004 | 23,163 | 23,244 | 23,422 | 23,373 | 23,249 | 23,428 | 23,201 | 23,222 |
| Men, 16 years and over .................... | 7,487 | 7,323 | 7,375 | 7,436 | 7,348 | 7,401 | 7,432 | 7,459 | 7,469 | 7,547 | 7,550 | 7,641 | 7,424 |
| Men, 20 years and over | 5,326 | 5,260 | 5,323 | 5,355 | 5,278 | 5,255 | 5,226 | 5,257 | 5,273 | 5,319 | 5,305 | 5,404 | 5,296 |
| Women, 16 years and over | 15,816 | 15,689 | 15,628 | 15,623 | 15,652 | 15,766 | 15,802 | 16,014 | 15,833 | 15,704 | 15,901 | 15,580 | 15,770 |
| Women, 20 years and over ............... | 13,400 | 13,280 | 13,290 | 13,291 | 13,366 | 13,432 | 13,447 | 13,559 | 13,258 | 13,175 | 13,382 | 13,099 | 13,232 |
| Both sexes, 16 to 19 years ............... | 4,601 | 4,447 | 4,403 | 4,415 | 4,360 | 4,476 | 4,571 | 4,606 | 4,842 | 4,755 | 4,742 | 4,698 | 4,694 |
| UNEMPLOYED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Looking for full-time work | 5,300 | 5,480 | 5,329 | 5,305 | 5,309 | 5,215 | 4,987 | 5,203 | 5,075 | 5,070 | 5,126 | 4,690 | 4,784 |
| Men, 16 years and over .................... | 2,855 | 3,164 | 2,961 | 2,958 | 2,984 | 2,991 | 2,834 | 2,994 | 2,645 | 2,610 | 2,725 | 2,461 | 2,662 |
| Men, 20 years and over ... | 2,487 | 2,669 | 2,585 | 2,568 | 2,571 | 2,600 | 2,466 | 2,689 | 2,438 | 2,386 | 2,462 | 2,167 | 2,250 |
| Women, 16 years and over | 2,472 | 2,395 | 2,344 | 2,369 | 2,361 | 2,254 | 2,205 | 2,220 | 2,296 | 2,369 | 2,322 | 2,252 | 2,160 |
| Women, 20 years and over ............... | 2,162 | 2,125 | 2,102 | 2,116 | 2,069 | 1,979 | 1,905 | 1,914 | 2,102 | 2,137 | 2,050 | 1,993 | 1,916 |
| Both sexes, 16 to 19 years ................ | 651 | 686 | 642 | 621 | 669 | 636 | 616 | 600 | 536 | 547 | 613 | 530 | 617 |
| Looking for part-time work ............... | 1,303 | 1,296 | 1,305 | 1,346 | 1,328 | 1,288 | 1,329 | 1,238 | 1,339 | 1,279 | 1,409 | 1,170 | 1,157 |
| Men, 16 years and over .................... | 519 | 542 | 558 | 577 | 561 | 570 | 551 | 502 | 549 | 583 | 582 | 504 | 494 |
| Men, 20 years and over .................... | 193 | 227 | 219 | 233 | 245 | 263 | 226 | 220 | 206 | 220 | 234 | 228 | 180 |
| Women, 16 years and over ............... | 788 | 772 | 766 | 752 | 751 | 705 | 779 | 753 | 760 | 708 | 806 | 686 | 679 |
| Women, 20 years and over ............... | 496 | 474 | 445 | 459 | 458 | 440 | 499 | 462 | 505 | 443 | 536 | 426 | 415 |
| Both sexes, 16 to 19 years | 614 | 595 | 641 | 654 | 625 | 585 | 604 | 556 | 627 | 615 | 640 | 516 | 562 |
| UNEMPLOYMENT RATES ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Full-time workers | 4.8 | 4.9 | 4.8 | 4.7 | 4.7 | 4.7 | 4.4 | 4.6 | 4.5 | 4.5 | 4.5 | 4.2 | 4.2 |
| Men, 16 years and over .................... | 4.4 | 4.8 | 4.5 | 4.5 | 4.6 | 4.6 | 4.3 | 4.5 | 4.0 | 4.0 | 4.2 | 3.8 | 4.0 |
| Men, 20 years and over..... | 3.9 | 4.2 | 4.1 | 4.0 | 4.0 | 4.1 | 3.8 | 4.2 | 3.8 | 3.7 | 3.9 | 3.4 | 3.5 |
| Women, 16 years and over ............... | 5.3 | 5.1 | 5.0 | 5.1 | 5.0 | 4.8 | 4.7 | 4.7 | 4.9 | 5.0 | 4.9 | 4.8 | 4.6 |
| Wormen, 20 years and over ............... | 4.8 | 4.7 | 4.6 | 4.6 | 4.5 | 4.4 | 4.2 | 4.2 | 4.6 | 4.6 | 4.5 | 4.3 | 4.2 |
| Both sexes, 16 to 19 years ................ | 23.3 | 24.7 | 23.0 | 22.8 | 23.2 | 22.4 | 21.3 | 21.0 | 19.1 | 18.8 | 20.0 | 18.7 | 20.5 |
| Part-time workers .......................... | 5.3 | 5.3 | 5.4 | 5.5 | 5.5 | 5.3 | 5.4 | 5.0 | 5.4 | 5.2 | 5.7 | 4.8 | 4.7 |
| Men, 16 years and over .................... | 6.5 | 6.9 | 7.0 | 7.2 | 7.1 | 7.2 | 6.9 | 6.3 | 6.8 | 7.2 | 7.2 | 6.2 | 6.2 |
| Men, 20 years and over .... | 3.5 | 4.1 | 4.0 | 4.2 | 4.4 | 4.8 | 4.1 | 4.0 | 3.8 | 4.0 | 4.2 | 4.0 | 3.3 |
| Women, 16 years and over .............. | 4.7 | 4.7 | 4.7 | 4.6 | 4.6 | 4.3 | 4.7 | 4.5 | 4.6 | 4.3 | 4.8 | 4.2 | 4.1 |
| Women, 20 years and over .............. | 3.6 | 3.4 | 3.2 | 3.3 | 3.3 | 3.2 | 3.6 | 3.3 | 3.7 | 3.3 | 3.8 | 3.2 | 3.0 |
| Both sexes, 16 to 19 years ............... | 11.8 | 11.8 | 12.7 | 12.9 | 12.5 | 11.6 | 11.7 | 10.8 | 11.5 | 11.5 | 11.9 | 9.9 | 10.7 |

1 These rates reflect a refined definition of the full- and part-time labor force and differ from the rates published elsewhere in this publication prior to 1994.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

## A-7. Employed persons by marital status, occupation, class of worker, and part-time status, seasonally adjusted

(In thousands)

| Category | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| MARITAL STATUS |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 129,494 | 129,392 | 129,661 | 129,747 | 129,761 | 129,910 | 130,575 | 130,777 | 131,083 | 131,163 | 130,994 | 131,383 | 131,453 |
| Married men, spouse present | 42,375 | 42,476 | 42,582 | 42,680 | 42,648 | 42,771 | 42,967 | 42,952 | 42,977 | 42,915 | 42,779 | 42,865 | 42,471 |
| Married women, spouse present .............. | 32,520 | 32,654 | 32,813 | 32,861 | 32,846 | 32,978 | 32,840 | 32,975 | 32,793 | 32,821 | 32,872 | 32,973 | 32,805 |
| Women who maintain families .................. | 7,820 | 7,820 | 7,875 | 7,892 | 7,876 | 7,865 | 7,726 | 7,822 | 7,784 | 7,884 | 7,776 | 7,813 | 7,848 |
| OCCUPATION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Managerial and professional specialty | 37,356 | 37,549 | 37,598 | 37,765 | 37,860 | 37,844 | 37,986 | 38,205 | 38,099 | 38,164 | 38,454 | 38,643 | 38,641 |
| Technical, sales, and administrative support | 38,304 | 38,188 | 38,240 | 38,334 | 38,535 | 38,537 | 38,540 | 38,562 | 38,382 | 38,491 | 38,693 | 38,585 | 38,401 |
| Service occupations .............................. | 17,418 | 17,450 | 17,550 | 17,713 | 17,746 | 17,723 | 17,827 | 17,890 | 18,162 | 17,950 | 17,752 | 17,478 | 17,749 |
| Precision production, craft, and repair ....... | 14,279 | 14,282 | 14,234 | 14,038 | 13,859 | 14,051 | 14,191 | 14,299 | 14,285 | 14,456 | 14,656 | 14,673 | 14,853 |
| Operators, fabricators, and laborers .......... | 18,593 | 18,540 | 18,476 | 18,452 | 18,302 | 18,385 | 18,467 | 18,394 | 18,622 | 18,632 | 18,179 | 18,447 | 18,322 |
| Farming, forestry, and fishing .................. | 3,612 | 3,502 | 3,531 | 3,442 | 3,483 | 3,438 | 3,512 | 3,472 | 3,355 | 3,436 | 3,269 | 3,495 | 3,479 |
| CLASS OF WORKER |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Agriculture: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wage and salary workers ..................... | 1,917 | 1,912 | 1,897 | 1,853 | 1,889 | 1,815 | 1,855 | 1,844 | 1,949 | 1,928 | 1,866 | 1,987 | 1,871 |
| Self-employed workers ....................... | 1,442 | 1,429 | 1,478 | 1,477 | 1,495 | 1,475 | 1,493 | 1,496 | 1,348 | 1,324 | 1,242 | 1,324 | 1,395 |
| Unpaid family workers ........................ | 52 | 47 | 52 | 50 | 44 | 55 | 49 | 54 | 44 | 41 | 32 | 28 | 51 |
| Nonagricultural industries: <br> Wage and salary workers $\qquad$ <br> Private industries | 116,874 | 116,642 | 117,146 | 117,372 | 117,303 | 117,635 | 118,083 | 118,403 | 118,529 | 118,961 | 119,131 | 118,774 | 119,013 |
|  | -99,011 | 98,529 | 198,843 | 99,169 | 117,303 | 17,630 | 118,083 | 100,155 | 100,108 | 100,583 | 101,058 | 100,571 | 100,979 |
| Private households | 948 | 888 | 911 | 935 | 877 | 877 | 910 | 946 | 985 | 1,035 | 1,022 | 1,014 | 1,015 |
| Other industries | 98,063 | 97,641 | 97,932 | 98,234 | 98,317 | 98,683 | 99,003 | 99,209 | 99,123 | 99,547 | 100,037 | 99,557 | 99,964 |
| Government ........... | 17,863 | 18,113 | 18,303 | 18,203 | 18,109 | 18,075 | 18,170 | 18,248 | 18,421 | 18,378 | 18,072 | 18,202 | 18,034 |
| Self-employed workers ........................ | 9,098 | 9,089 | 8,927 | 8,955 | 8,949 | 8,930 | 9,004 | 8,886 | 8,964 | 8,761 | 8,784 | 9,069 | 9,023 |
| Unpaid family workers ........................ | 142 | 128 | 129 | 126 | 83 | 92 | 97 | 99 | 131 | 117 | 102 | 124 | 97 |
| PERSONS AT WORK PART TIME ${ }^{\dagger}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All industries: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part time for economic reasons ...... | 4,060 | 4,049 | 4,019 | 3,988 | 3,928 | 3,913 | 3,890 | 3,855 | 4,082 | 3,882 | 3,902 | 3,735 | 3,772 |
| Slack work or business conditions | 2,295 | 2,347 | 2,236 | 2,164 | 2,187 | 2,211 | 2,221 | 2,230 | 2,282 | 2,123 | 2,188 | 2,074 | 2,104 |
| Could only find part-time work ............ | 1,440 | 1,373 | 1,489 | 1,487 | 1,455 | 1,406 | 1,386 | 1,323 | 1,400 | 1,455 | 1,445 | 1,300 | 1,344 |
| Part time for noneconomic reasons ........ | 18,218 | 18,205 | 18,055 | 18,096 | 17,901 | 18,113 | 18,083 | 18,386 | 18,515 | 18,407 | 18,448 | 18,084 | 18,662 |
| Nonagricultural industries: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part time for economic reasons ............. | 3,853 | 3,819 | 3,858 | 3,832 | 3,739 | 3,732 | 3,689 | 3,654 | 3,865 | 3,743 | 3,726 | 3,608 | 3,630 |
| Slack work or business conditions ....... | 2,166 | 2,202 | 2,121 | 2,066 | 2,067 | 2,103 | 2,100 | 2,113 | 2,162 | 2,025 | 2,057 | 1,998 | 2,024 |
| Could only find part-time work ............ | 1,402 | 1,320 | 1,462 | 1,455 | 1,417 | 1,378 | 1,346 | 1,291 | 1,373 | 1,433 | 1,416 | 1,276 | 1,315 |
| Part time for noneconomic reasons ........ | 17,654 | 17,577 | 17,452 | 17,521 | 17,381 | 17,537 | 17,486 | 17,791 | 17,898 | 17,786 | 17,929 | 17,470 | 18,067 |

1 Persons at work excludes employed persons who were absent from their jobs during the entire reference week for reasons such as vacation, illness, or industrial dispute. Part time for noneconomic reasons excludes persons who usually work full time but worked only 1 to 34 hours during the reference week for reasons such as
holidays, illness, and bad weather
NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

## HOUSEHOLD DATA

## SEASONALLY ADJUSTED

## A-8. Employed persons by age and sex, seasonally adjusted

(In thousands)

| Age and sex | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| Total, 16 years and over | 129,494 | 129,392 | 129,661 | 129,747 | 129,761 | 129,910 | 130,575 | 130,777 | 131,083 | 131,163 | 130,994 | 131,383 | 131,453 |
| 16 to 24 years | 19,191 | 18,919 | 19,017 | 18,855 | 19,013 | 19,002 | 19,257 | 19,304 | 19,574 | 19,587 | 19,563 | 19,691 | 19,597 |
| 16 to 19 years | 6,697 | 6,559 | 6,607 | 6,572 | 6,580 | 6,654 | 6,798 | 6,846 | 7,035 | 7,028 | 7,055 | 7,007 | 7,010 |
| 16 to 17 years | 2,615 | 2,628 | 2,622 | 2,567 | 2,640 | 2,680 | 2,680 | 2,676 | 2,843 | 2,803 | 2,840 | 2,823 | 2,741 |
| 18 to 19 years | 4,105 | 3,943 | 3,982 | 3,976 | 3,936 | 3,976 | 4,118 | 4,176 | 4,193 | 4,224 | 4,215 | 4,173 | 4,287 |
| 20 to 24 years | 12,494 | 12,360 | 12,410 | 12,283 | 12,433 | 12,348 | 12,459 | 12,458 | 12,539 | 12,560 | 12,508 | 12,684 | 12,587 |
| 25 years and over | 110,337 | 110,487 | 110,610 | 110,858 | 110,831 | 110,964 | 111,251 | 111,445 | 111,463 | 111,505 | 111,398 | 111,755 | 111,855 |
| 25 to 54 years | 94,225 | 94,540 | 94,717 | 94,910 | 94,772 | 94,707 | 94,859 | 94,941 | 95,125 | 95,099 | 95,055 | 95,148 | 95,217 |
| 55 years and over | 16,031 | 15,892 | 15,934 | 16,063 | 16,104 | 16,220 | 16,417 | 16,523 | 16,367 | 16,401 | 16,388 | 16,475 | 16,562 |
| Men, 16 years and over | 69,765 | 69,586 | 69,711 | 69,748 | 69,656 | 69,785 | 70,352 | 70,195 | 70,518 | 70,459 | 70,297 | 70,831 | 70,685 |
| 16 to 24 years ............................... | 10,134 | 9,904 | 9,929 | 9,895 | 9,880 | 9,889 | 10,070 | 10,010 | 10,178 | 10,132 | 10,167 | 10,263 | 10,126 |
| 16 to 19 years | 3,456 | 3,328 | 3,350 | 3,362 | 3,358 | 3,448 | 3,528 | 3,519 | 3,510 | 3,470 | 3,544 | 3,529 | 3,495 |
| 16 to 17 years | 1,338 | 1,338 | 1,331 | 1,339 | 1,360 | 1,398 | 1,401 | 1,377 | 1,472 | 1,397 | 1,452 | 1,444 | 1,375 |
| 18 to 19 years | 2,126 | 2,001 | 2,007 | 1,996 | 1,980 | 2,075 | 2,128 | 2,151 | 2,041 | 2,080 | 2,093 | 2,088 | 2,121 |
| 20 to 24 years | 6,678 | 6,576 | 6,579 | 6,533 | 6,522 | 6,441 | 6,542 | 6,491 | 6,668 | 6,662 | 6,622 | 6,733 | 6,631 |
| 25 years and over | 59,639 | 59,671 | 59,781 | 59,850 | 59,877 | 59,952 | 60,234 | 60,168 | 60,288 | 60,315 | 60,117 | 60,520 | 60,543 |
| 25 to 54 years .............................. | 50,680 | 50,772 | 50,858 | 50,906 | 50,871 | 50,867 | 51,125 | 51,034 | 51,235 | 51,201 | 51,144 | 51,357 | 51,315 |
| 55 years and over ........................ | 8,958 | 8,858 | 8,932 | 9,007 | 9,009 | 9,060 | 9,152 | 9,151 | 9,048 | 9,087 | 8,991 | 9,114 | 9,226 |
| Women, 16 years and over ......... | 59,729 | 59,806 | 59,950 | 59,999 | 60,105 | 60,125 | 60,223 | 60,582 | 60,565 | 60,704 | 60,697 | 60,553 | 60,768 |
| 16 to 24 years ............................... | 9,057 | 9,015 | 9,088 | 8,960 | 9,133 | 9,113 | 9,187 | 9,294 | 9,396 | 9,455 | 9,397 | 9,429 | 9,471 |
| 16 to 19 years ............................. | 3,241 | 3,231 | 3,257 | 3,210 | 3,222 | 3,206 | 3,270 | 3,327 | 3,525 | 3,558 | 3,511 | 3,478 | 3,515 |
| 16 to 17 years | 1,277 | 1,290 | 1,291 | 1,228 | 1,280 | 1,282 | 1,279 | 1,299 | 1,371 | 1,406 | 1,388 | 1,380 | 1,366 |
| 18 to 19 years ............................ | 1,979 | 1,942 | 1,975 | 1,980 | 1,956 | 1,901 | 1,990 | 2,025 | 2,152 | 2,144 | 2,122 | 2,086 | 2,166 |
| 20 to 24 years .............................. | 5,816 | 5,784 | 5,831 | 5,750 | 5,911 | 5,907 | 5,917 | 5,967 | 5,871 | 5,898 | 5,886 | 5,951 | 5,956 |
| 25 years and over | 50,698 | 50,816 | 50,829 | 51,008 | 50,954 | 51,012 | 51,017 | 51,277 | 51,175 | 51,190 | 51,281 | 51,235 | 51,311 |
| 25 to 54 years .............................. | 43,545 | 43,768 | 43,859 | 44,004 | 43,901 | 43,840 | 43,734 | 43,907 | 43,890 | 43,898 | 43,910 | 43,791 | 43,902 |
| 55 years and over ........................ | 7,073 | 7,034 | 7,002 | 7,056 | 7,095 | 7,160 | 7,265 | 7,372 | 7,319 | 7,314 | 7,397 | 7,361 | 7,336 |

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

## A-9. Unemployed persons by age and sex, seasonally adjusted

(In thousands)

| Age and sex | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| Total, 16 years and over | 6,566 | 6,814 | 6,633 | 6,657 | 6,678 | 6,496 | 6,289 | 6,392 | 6,409 | 6,393 | 6,529 | 5,859 | 5,910 |
| 16 to 24 years | 2,361 | 2,426 | 2,350 | 2,393 | 2,408 | 2,375 | 2,360 | 2,300 | 2,371 | 2,378 | 2,335 | 2,063 | 2,184 |
| 16 to 19 years. | 1,244 | 1,295 | 1,284 | 1,272 | 1,291 | 1,221 | 1,218 | 1,138 | 1,154 | 1,207 | 1,245 | 1,052 | 1,156 |
| 16 to 17 years ... | 586 | 550 | 571 | 559 | 631 | 568 | 574 | 576 | 596 | 638 | 579 | 506 | 514 |
| 18 to 19 years. | 664 | 743 | 729 | 722 | 669 | 654 | 646 | 555 | 549 | 538 | 670 | 546 | 650 |
| 20 to 24 years ....... | 1,117 | 1,131 | 1,066 | 1,121 | 1,117 | 1,154 | 1,142 | 1,162 | 1,218 | 1,171 | 1,090 | 1,011 | 1,028 |
| 25 years and over. | 4,249 | 4,371 | 4,245 | 4,296 | 4,304 | 4,122 | 3,923 | 4,149 | 4,019 | 4,018 | 4,184 | 3,751 | 3,758 |
| 25 to 54 years. | 3,787 | 3,867 | 3,750 | 3,778 | 3,791 | 3,636 | 3,461 | 3,659 | 3,588 | 3,571 | 3,712 | 3,293 | 3,372 |
| 55 years and over ............ | 480 | 509 | 488 | 504 | 512 | 472 | 472 | 480 | 459 | 450 | 486 | 426 | 407 |
| Men, 16 years and over. | 3,324 | 3,639 | 3,507 | 3,517 | 3,536 | 3,526 | 3,330 | 3,467 | 3,333 | 3,320 | 3,399 | 2,969 | 3,098 |
| 16 to 24 years | 1,209 | 1,337 | 1,293 | 1,334 | 1,347 | 1,350 | 1,325 | 1,250 | 1,278 | 1,348 | 1,282 | 1,105 | 1,250 |
| 16 to 19 years.... | 643 | 740 | 697 | 705 | 314 | 670311360 | 654 | 582 | 689 | 709 | 700 | 573 | 664 |
| 16 to 17 years. | 304 | 328 | $\begin{aligned} & 309 \\ & 385 \end{aligned}$ | 295 |  |  | $\begin{aligned} & 312 \\ & 349 \end{aligned}$ | 310 <br> 268 | 330357 | $\begin{aligned} & 371 \\ & 313 \end{aligned}$ | 330 <br> 374 | 253320 | 300370 |
| 18 to 19 years... | 345 | 421 |  | 417 | 381 |  |  |  |  |  |  |  |  |
| 20 to 24 years ..... | 566 | 597 | 596 | 629 | 649 | 680 | 671 | 668 | 588 | 639 | 582 | 532 | 586 |
| 25 years and over. | 1,878 | $\begin{aligned} & 2,292 \\ & 2,007 \end{aligned}$ | $\begin{aligned} & 2,201 \\ & 1,928 \end{aligned}$ | $\begin{aligned} & 2,200 \\ & 1,921 \end{aligned}$ | $\begin{aligned} & 2,182 \\ & 1,901 \end{aligned}$ | $\begin{aligned} & 2,176 \\ & 1,887 \end{aligned}$ | $\begin{aligned} & 2,005 \\ & 1,727 \end{aligned}$ | $\begin{aligned} & 2,213 \\ & 1,896 \end{aligned}$ | $\begin{aligned} & 2,050 \\ & 1,785 \end{aligned}$ | $\begin{aligned} & 1,975 \\ & 1,718 \end{aligned}$ | $\begin{aligned} & 2,102 \\ & 1,828 \end{aligned}$ | $\begin{aligned} & 1,854 \\ & 1,602 \end{aligned}$ | 1,8751,639 |
| 25 to 54 years. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 55 years and over ... | 264 | 285 | 274 | 284 | 276 | 277 | 278 | 325 | 289 | 268 | 285 | 244 | 225 |
| Wormen, 16 years and over .. | 3,242 | 3,175 | 3,126 | 3,140 | 3,142 | 2,970 | 2,959 | 2,925 | 3,076 | 3,073 | 3,130 | 2,890 | 2,813 |
| 16 to 24 years .... | 1,152 | 1,089 | $\begin{array}{r}1,057 \\ 587 \\ \\ \\ \hline 188\end{array}$ | $\begin{array}{r}1,059 \\ 567 \\ \hline\end{array}$ | $\begin{array}{r}1,061 \\ 593 \\ \hline\end{array}$ | 1,025551 | $\begin{array}{r}1,035 \\ 564 \\ \\ \hline\end{array}$ | 1,050556 | $\begin{array}{r} 1,094 \\ 464 \end{array}$ | 1,030498 | 1,053545 | 958479 | 935 |
| 16 to 19 years ... | 601 | 555 |  |  |  |  |  |  |  |  |  |  |  |
| 16 to 17 years | 282 | 222322 | 262344 | 264305 | $\begin{aligned} & 317 \\ & 288 \end{aligned}$ | 257294 | $\begin{aligned} & 262 \\ & 297 \end{aligned}$ | 266 <br> 287 | $\begin{aligned} & 266 \\ & 191 \end{aligned}$ | $\begin{aligned} & 267 \\ & 225 \end{aligned}$ | 249296 | 253226 | 214280 |
| 18 to 19 years ...... | 319 |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 to 24 years ....... | 551 | 534 | 470 | 492 | 468 | 474 | 471 | 494 | 629 | 532 | 508 | 479 | 442 |
| 25 years and over ...... | 2,093 | $\begin{aligned} & 2,079 \\ & 1,860 \end{aligned}$ | $\begin{aligned} & 2,044 \\ & 1,822 \end{aligned}$ | $\begin{aligned} & 2,076 \\ & 1,857 \end{aligned}$ | $\begin{aligned} & 2,122 \\ & 1,890 \end{aligned}$ | $\begin{aligned} & 1,946 \\ & 1,749 \end{aligned}$ | $\begin{aligned} & 1,918 \\ & 1,734 \end{aligned}$ | $\begin{array}{r} 1,936 \\ 1,763 \\ 155 \end{array}$ | $\begin{aligned} & 1,969 \\ & 1,802 \end{aligned}$ | $\begin{aligned} & 2,043 \\ & 1,853 \end{aligned}$ | 2,0821,884 | $\begin{array}{r} 1,897 \\ 1,692 \end{array}$ | $\begin{array}{r} 1,883 \\ 1,733 \\ 182 \end{array}$ |
| 25 to 54 years ..... | 1,909 |  |  |  |  |  |  |  |  |  |  |  |  |
| 55 years and over ................... | 216 | 224 | 214 | 220 | 236 | 195 | 194 |  | 170 | 181 | 201 | 182 |  |

[^5] procedures and revised population controls used in the household survey.

A-10. Unemployment rates by age and sex, seasonally adjusted
(Percent)

| Age and sex | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| Total, 16 years and over .............. | 4.8 | 5.0 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.7 | 4.7 | 4.6 | 4.7 | 4.3 | 4.3 |
| 16 to 24 years. | 11.0 | 11.4 | 11.0 | 11.3 | 11.2 | 11.1 | 10.9 | 10.6 | 10.8 | 10.8 | 10.7 | 9.5 | 10.0 |
| 16 to 19 years ............................. | 15.7 | 16.5 | 16.3 | 16.2 | 16.4 | 15.5 | 15.2 | 14.3 | 14.1 | 14.7 | 15.0 | 13.1 | 14.2 |
| 16 to 17 years ............................ | 18.3 | 17.3 | 17.9 | 17.9 | 19.3 | 17.5 | 17.6 | 17.7 | 17.3 | 18.5 | 16.9 | 15.2 | 15.8 |
| 18 to 19 years ........................... | 13.9 | 15.9 | 15.5 | 15.4 | 14.5 | 14.1 | 13.6 | 11.7 | 11.6 | 11.3 | 13.7 | 11.6 | 13.2 |
| 20 to 24 years ............................. | 8.2 | 8.4 | 7.9 | 8.4 | 8.2 | 8.5 | 8.4 | 8.5 | 8.9 | 8.5 | 8.0 | 7.4 | 7.6 |
| 25 years and over .......................... | 3.7 | 3.8 | 3.7 | 3.7 | 3.7 | 3.6 | 3.4 | 3.6 | 3.5 | 3.5 | 3.6 | 3.2 | 3.3 |
| 25 to 54 years ............................. | 3.9 | 3.9 | 3.8 | 3.8 | 3.8 | 3.7 | 3.5 | 3.7 | 3.6 | 3.6 | 3.8 | 3.3 | 3.4 |
| 55 years and over ........................ | 2.9 | 3.1 | 3.0 | 3.0 | 3.1 | 2.8 | 2.8 | 2.8 | 2.7 | 2.7 | 2.9 | 2.5 | 2.4 |
| Men, 16 years and over ............... | 4.5 | 5.0 | 4.8 | 4.8 | 4.8 | 4.8 | 4.5 | 4.7 | 4.5 | 4.5 | 4.6 | 4.0 | 4.2 |
| 16 to 24 years ............................... | 10.7 | 11.9 | 11.5 | 11.9 | 12.0 | 12.0 | 11.6 | 11.1 | 11.2 | 11.7 | 11.2 | 9.7 | 11.0 |
| 16 to 19 years ............................. | 15.7 | 18.2 | 17.2 | 17.3 | 17.2 | 16.3 | 15.6 | 14.2 | 16.4 | 17.0 | 16.5 | 14.0 | 16.0 |
| 16 to 17 years ............................ | 18.5 | 19.7 | 18.8 | 18.1 | 18.8 | 18.2 | 18.2 | 18.4 | 18.3 | 21.0 | 18.5 | 14.9 | 17.9 |
| 18 to 19 years ............................ | 14.0 | 17.4 | 16.1 | 17.3 | 16.1 | 14.8 | 14.1 | 11.1 | 14.9 | 13.1 | 15.2 | 13.3 | 14.8 |
| 20 to 24 years ............................. | 7.8 | 8.3 | 8.3 | 8.8 | 9.1 | 9.5 | 9.3 | 9.3 | 8.1 | 8.7 | 8.1 | 7.3 | 8.1 |
| 25 years and over .......................... | 3.5 | 3.7 | 3.6 | 3.6 | 3.5 | 3.5 | 3.2 | 3.5 | 3.3 | 3.2 | 3.4 | 3.0 | 3.0 |
| 25 to 54 years ............................. | 3.6 | 3.8 | 3.7 | 3.6 | 3.6 | 3.6 | 3.3 | 3.6 | 3.4 | 3.2 | 3.5 | 3.0 | 3.1 |
| 55 years and over ........................ | 2.9 | 3.1 | 3.0 | 3.1 | 3.0 | 3.0 | 2.9 | 3.4 | 3.1 | 2.9 | 3.1 | 2.6 | 2.4 |
| Women, 16 years and over .......... | 5.1 | 5.0 | 5.0 | 5.0 | 5.0 | 4.7 | 4.7 | 4.6 | 4.8 | 4.8 | 4.9 | 4.6 | 4.4 |
| 16 to 24 years ............................... | 11.3 | 10.8 | 10.4 | 10.6 | 10.4 | 10.1 | 10.1 | 10.2 | 10.4 | 9.8 | 10.1 | 9.2 | 9.0 |
| 16 to 19 years .............................. | 15.6 | 14.7 | 15.3 | 15.0 | 15.5 | 14.7 | 14.7 | 14.3 | 11.6 | 12.3 | 13.4 | 12.1 | 12.3 |
| 16 to 17 years ........................... | 18.1 | 14.7 | 16.9 | 17.7 | 19.8 | 16.7 | 17.0 | 17.0 | 16.3 | 16.0 | 15.2 | 15.5 | 13.5 |
| 18 to 19 years ............................ | 13.9 | 14.2 | 14.8 | 13.3 | 12.8 | 13.4 | 13.0 | 12.4 | 8.2 | 9.5 | 12.2 | 9.8 | 11.4 |
| 20 to 24 years ............................. | 8.7 | 8.5 | 7.5 | 7.9 | 7.3 | 7.4 | 7.4 | 7.6 | 9.7 | 8.3 | 7.9 | 7.5 | 6.9 |
| 25 years and over .......................... | 4.0 | 3.9 | 3.9 | 3.9 | 4.0 | 3.7 | 3.6 | 3.6 | 3.7 | 3.8 | 3.9 | 3.6 | 3.5 |
| 25 to 54 years ............................ | 4.2 | 4.1 | 4.0 | 4.0 | 4.1 | 3.8 | 3.8 | 3.9 | 3.9 | 4.1 | 4.1 | 3.7 | 3.8 |
| 55 years and over ......................... | 3.0 | 3.1 | 3.0 | 3.0 | 3.2 | 2.7 | 2.6 | 2.1 | 2.3 | 2.4 | 2.6 | 2.4 | 2.4 |

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

A-11. Unemployment rates by occupation, industry, and selected demographic characteristics, seasonally adjusted
(Percent)

| Category | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| CHARACTERISTIC |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total | 4.8 | 5.0 | 4.9 | 4.9 | 4.9 | 4.8 | 4.6 | 4.7 | 4.7 | 4.6 | 4.7 | 4.3 | 4.3 |
| Men, 20 years and over ..................................... | 3.9 | 4.2 | 4.1 | 4.1 | 4.1 | 4.1 | 3.9 | 4.1 | 3.8 | 3.8 | 3.9 | 3.4 | 3.5 |
| Women, 20 years and over ................................ | 4.5 | 4.4 | 4.3 | 4.3 | 4.3 | 4.1 | 4.0 | 4.0 | 4.4 | 4.3 | 4.3 | 4.1 | 3.9 |
| Both sexes, 16 to 19 years ................................ | 15.7 | 16.5 | 16.3 | 16.2 | 16.4 | 15.5 | 15.2 | 14.3 | 14.1 | 14.7 | 15.0 | 13.1 | 14.2 |
| White | 4.1 | 4.3 | 4.2 | 4.2 | 4.2 | 4.1 | 3.9 | 3.9 | 4.0 | 3.9 | 4.1 | 3.6 | 3.7 |
| Black and other | 9.2 | 8.9 | 8.4 | 8.4 | 8.4 | 8.2 | 8.4 | 8.6 | 8.3 | 8.3 | 8.2 | 7.5 | 7.6 |
| Black .............................................................. | 10.3 | 10.3 | 9.6 | 9.5 | 9.6 | 9.6 | 9.7 | 9.9 | 9.3 | 9.7 | 9.2 | 8.9 | 9.0 |
| Hispanic origin ................................................. | 7.6 | 7.7 | 7.9 | 7.3 | 7.6 | 7.8 | 6.9 | 7.5 | 6.9 | 6.8 | 6.9 | 6.5 | 6.8 |
| Married men, spouse present .............................. | 2.7 | 2.7 | 2.6 | 2.6 | 2.6 | 2.6 | 2.4 | 2.6 | 2.6 | 2.5 | 2.5 | 2.2 | 2.4 |
| Married women, spouse present ......................... | 3.2 | 3.2 | 3.1 | 3.0 | 3.1 | 2.8 | 2.8 | 2.8 | 3.1 | 3.1 | 3.3 | 2.8 | 2.8 |
| Women who maintain families ............................ | 7.9 | 8.0 | 7.6 | 8.0 | 7.8 | 7.8 | 8.1 | 7.7 | 7.6 | 7.6 | 7.6 | 7.6 | 7.7 |
| OCCUPATION ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Managerial and professional specialty ................. | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 1.8 | 1.7 | 1.9 | 2.0 | 2.0 | 1.8 | 1.9 | 1.7 |
| Technical, sales, and administrative support .......... | 3.9 | 4.2 | 4.1 | 4.1 | 4.0 | 3.9 | 3.9 | 4.0 | 4.2 | 4.0 | 4.1 | 3.7 | 3.9 |
| Precision production, cratt, and repair ................ | 4.7 | 4.8 | 4.9 | 4.7 | 4.8 | 5.3 | 4.5 | 4.7 | 4.6 | 4.1 | 4.5 | 3.7 | 4.4 |
| Operators, fabricators, and laborers .................... | 7.2 | 7.4 | 7.4 | 7.6 | 7.8 | 7.1 | 7.1 | 7.0 | 5.9 | 6.5 | 6.9 | 6.1 | 6.5 |
| Farming, forestry, and fishing ............................. | 6.6 | 7.9 | 6.5 | 7.2 | 6.7 | 7.3 | 6.6 | 7.2 | 6.8 | 6.3 | 7.1 | 5.8 | 6.4 |
| INDUSTRY |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonagricultural private wage and salary workers .. | 5.0 | 5.0 | 4.9 | 5.0 | 5.0 | 4.8 | 4.7 | 4.8 | 4.7 | 4.7 | 4.7 | 4.3 | 4.5 |
| Goods-producing industries | 5.3 | 5.2 | 5.3 | 5.3 | 5.2 | 5.0 | 4.6 | 5.0 | 4.8 | 4.7 | 5.0 | 4.4 | 4.6 |
| Mining ......................................................... | 3.3 | 2.8 | 4.1 | 4.9 | 3.4 | 4.5 | 3.3 | 3.3 | 4.0 | 2.6 | 3.7 | 2.3 | 1.3 |
| Construction | 8.6 | 8.8 | 8.7 | 9.0 | 8.7 | 8.7 | 7.9 | 8.9 | 7.9 | 7.8 | 8.6 | 6.3 | 8.0 |
| Manufacturing. | 4.3 | 4.2 | 4.3 | 4.1 | 4.1 | 3.8 | 3.6 | 3.8 | 3.9 | 3.7 | 3.8 | 3.9 | 3.6 |
| Durable goods | 3.6 | 3.6 | 3.5 | 3.5 | 3.3 | 3.1 | 3.1 | 3.1 | 3.4 | 2.9 | 3.6 | 3.5 | 3.0 |
| Nondurable goods ...................................... | 5.3 | 5.0 | 5.4 | 5.0 | 5.3 | 4.8 | 4.4 | 4.9 | 4.5 | 5.0 | 4.2 | 4.4 | 4.6 |
| Service-producing industries ............................. | 4.9 | 4.9 | 4.8 | 4.9 | 4.9 | 4.7 | 4.7 | 4.7 | 4.7 | 4.7 | 4.6 | 4.3 | 4.5 |
| Transportation and public utilities ..................... | 3.6 | 3.0 | 3.4 | 3.7 | 3.8 | 3.3 | 3.1 | 3.3 | 3.8 | 3.2 | 3.3 | 3.1 | 3.0 |
| Wholesale and retail trade .............................. | 6.1 | 6.4 | 6.1 | 6.2 | 6.2 | 6.1 | 6.2 | 5.8 | 5.9 | 5.8 | 5.4 | 5.2 | 5.1 |
| Finance, insurance, and real estate | 3.1 | 2.5 | 3.1 | 3.0 | 3.0 | 2.9 | 2.4 | 2.8 | 2.6 | 2.6 | 2.6 | 2.2 | 2.0 |
| Services | 4.7 | 4.7 | 4.4 | 4.5 | 4.6 | 4.3 | 4.4 | 4.5 | 4.3 | 4.7 | 4.7 | 4.3 | 4.8 |
| Government workers ........................................ | 2.5 | 2.8 | 2.7 | 2.6 | 2.6 | 2.4 | 2.3 | 2.1 | 2.4 | 2.3 | 2.9 | 2.0 | 2.4 |
| Agricultural wage and salary workers ................... | 7.6 | 10.4 | 8.4 | 8.9 | 9.0 | 9.6 | 8.6 | 9.7 | 10.6 | 8.6 | 9.7 | 8.0 | 7.9 |

1 Seasonally adjusted data for service occupations are not available because the seasonal component, which is small relative to the trend-cycle and irregular components, cannot be separated with sufficient precision.

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

## HOUSEHOLD DATA

SEASONALLY ADJUSTED
A-12. Unemployed persons by reason for unemployment, seasonally adjusted
(Numbers in thousands)

| Reason | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| NUMBER OF UNEMPLOYED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers and persons who completed temporary jobs .... | 2,961 | 3,094 | 2,954 | 3,010 | 3,007 | 2,934 | 2,886 | 2,991 | 2,807 | 2,795 | 2,980 | 2,631 | 2,772 |
| On temporary layoff ................................................... | 909 | 928 | 894 | 891 | 893 | 963 | 815 | 961 | 860 | 821 | 980 | 696 | 786 |
| Not on temporary layoff .............................................. | 2,052 | 2,166 | 2,060 | 2,119 | 2,114 | 1,971 | 2,071 | 2,030 | 1,947 | 1,975 | 2,000 | 1,935 | 1,986 |
| Job leavers ................................................................ | 808 | 827 | 812 | 894 | 853 | 732 | 655 | 692 | 808 | 786 | 744 | 625 | 748 |
| Reentrants ................................................................ | 2,338 | 2,333 | 2,263 | 2,173 | 2,263 | 2,247 | 2,229 | 2,170 | 2,229 | 2,266 | 2,215 | 2,096 | 2,033 |
| New entrants ............................................................ | 573 | 510 | 564 | 554 | 560 | 555 | 560 | 552 | 518 | 543 | 549 | 511 | 493 |
| PERCENT DISTRIBUTION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers and persons who completed temporary jobs .... | 44.3 | 45.7 | 44.8 | 45.4 | 45.0 | 45.4 | 45.6 | 46.7 | 44.1 | 43.7 | 45.9 | 44.9 | 45.8 |
| On temporary layoff ................................................... | 13.6 | 13.7 | 13.6 | 13.4 | 13.4 | 14.9 | 12.9 | 15.0 | 13.5 | 12.8 | 15.1 | 11.9 | 13.0 |
| Not on temporary layoff .............................................. | 30.7 | 32.0 | 31.2 | 32.0 | 31.6 | 30.5 | 32.7 | 31.7 | 30.6 | 30.9 | 30.8 | 33.0 | 32.8 |
| Job leavers ................................................................ | 12.1 | 12.2 | 12.3 | 13.5 | 12.8 | 11.3 | 10.3 | 10.8 | 12.7 | 12.3 | 11.5 | 10.7 | 12.4 |
| Reentrants ................................................................. | 35.0 | 34.5 | 34.3 | 32.8 | 33.9 | 34.7 | 35.2 | 33.9 | 35.0 | 35.5 | 34.1 | 35.7 | 33.6 |
| New entrants ........................................................... | 8.6 | 7.5 | 8.6 | 8.4 | 8.4 | 8.6 | 8.8 | 8.6 | 8.1 | 8.5 | 8.5 | 8.7 | 8.2 |
| UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers and persons who completed temporary jobs .... | 2.2 | 2.3 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 | 2.2 | 2.0 | 2.0 | 2.2 | 1.9 | 2.0 |
| Job leavers ............................................................... | . 6 | . 6 | . 6 | . 7 | . 6 | . 5 | . 5 | . 5 | . 6 | . 6 | . 5 | . 5 | . 5 |
| Reentrants ............................................................... | 1.7 | 1.7 | 1.7 | 1.6 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.5 | 1.5 |
| New entrants ........................................................... | . 4 | . 4 | . 4 | . 4 | . 4 | . 4 | . 4 | . 4 | . 4 | . 4 | . 4 | 4 | . 4 |

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

A-13. Unemployed persons by duration of unemployment, seasonally adjusted
(Numbers in thousands)

| Duration | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May |
| NUMBER OF UNEMPLOYED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Less than 5 weeks | 2,542 | 2,541 | 2,446 | 2,564 | 2,484 | 2,558 | 2,423 | 2,531 | 2,488 | 2,622 | 2,858 | 2,632 | 2,634 |
| 5 to 14 weeks ... | 2,067 | 2,188 | 2,097 | 2,121 | 2,115 | 1,912 | 2,048 | 1,922 | 1,971 | 1,909 | 1,979 | 1,901 | 1,954 |
| 15 weeks and over | 2,076 | 2,069 | 2,128 | 2,027 | 2,109 | 1,990 | 1,865 | 1,964 | 1,811 | 1,830 | 1,731 | 1,417 | 1,462 |
| 15 to 26 weeks ... | 1,054 | 1,031 | 1,061 | 950 | 1,031 | 919 | 899 | 936 | 773 | 855 | 841 | 584 | 656 |
| 27 weeks and over ............................ | 1,022 | 1,038 | 1,067 | 1,077 | 1,078 | 1,071 | 966 | 1,028 | 1,038 | 974 | 891 | 833 | 806 |
| Average (mean) duration, in weeks ........ | 15.3 | 15.3 | 16.5 | 15.8 | 15.9 | 16.3 | 15.6 | 16.3 | 15.6 | 15.6 | 14.3 | 14.3 | 14.6 |
| Median duration, in weeks .................... | 7.8 | 7.9 | 8.2 | 7.9 | 8.1 | 7.7 | 7.8 | 7.7 | 7.4 | 7.2 | 6.8 | 6.4 | 5.9 |
| PERCENT DISTRIBUTION |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total unemployed ............................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Less than 5 weeks | 38.0 | 37.4 | 36.7 | 38.2 | 37.0 | 39.6 | 38.2 | 39.4 | 39.7 | 41.2 | 43.5 | 44.2 | 43.5 |
| 5 to 14 weeks .................................. | 30.9 | 32.2 | 31.4 | 31.6 | 31.5 | 29.6 | 32.3 | 30.0 | 31.4 | 30.0 | 30.1 | 31.9 | 32.3 |
| 15 weeks and over .................................................... | 31.1 | 30.4 | 31.9 | 30.2 | 31.4 | 30.8 | 29.4 | 30.6 | 28.9 | 28.8 | 26.4 | 23.8 | 24.2 |
| 15 to 26 weeks ............................... | 15.8 | 15.2 | 15.9 | 14.2 | 15.4 | 14.2 | 14.2 | 14.6 | 12.3 | 13.4 | 12.8 | 9.8 | 10.8 |
| 27 weeks and over .......................... | 15.3 | 15.3 | 16.0 | 16.0 | 16.1 | 16.6 | 15.2 | 16.0 | 16.6 | 15.3 | 13.6 | 14.0 | 13.3 |

NOTE: Beginning in January 1998, data reflect new composite estimation
procedures and revised population controls used in the household survey.

A-14. Employment status of the civilian noninstitutional population by age, sex, and race
(Numbers in thousands)

| Age, sex, and race | May 1998 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Civilian noninstitutional population | Total | $\begin{gathered} \text { Percent } \\ \text { of } \\ \text { population } \end{gathered}$ | Civilian labor force |  |  |  |  |  |  |
|  |  |  |  | Employed |  |  |  | Unemployed |  | Not in labor force |
|  |  |  |  | Total | Percent of population | Agriculture | Nonagricultural industries | Number | Percent of labor force |  |
| TOTAL |  |  |  |  |  |  |  |  |  |  |
| 16 years and over | 204,899 | 137,240 | 67.0 | 131,476 | 64.2 | 3,552 | 127,924 | 5,764 | 4.2 | 67,659 |
| 16 to 19 years ........................................... | 15,609 | 8,054 | 51.6 | 6,847 | 43.9 | 296 | 6,552 | 1,207 | 15.0 | 7,554 |
| 16 to 17 years .......................................... | 7,893 | 3,147 | 39.9 | 2,606 | 33.0 | 143 | 2,463 | 542 | 17.2 | 4,745 |
| 18 to 19 years .......................................... | 7,716 | 4,907 | 63.6 | 4,242 | 55.0 | 153 | 4,089 | 666 | 13.6 | 2,809 |
| 20 to 24 years.. | 17,540 | 13,572 | 77.4 | 12,525 | 71.4 | 344 | 12,181 | 1,047 | 7.7 | 3,968 |
| 25 to 54 years ........................................... | 117,483 | 98,570 | 83.9 | 95,463 | 81.3 | 2,124 | 93,339 | 3,108 | 3.2 | 18,913 |
| 25 to 34 years ......................................... | 38,850 | 32,819 | 84.5 | 31,532 | 81.2 | 768 | 30,764 | 1,287 | 3.9 | 6,032 |
| 25 to 29 years ........................................ | 18,614 | 15,710 | 84.4 | 15,064 | 80.9 | 382 | 14,682 | 646 | 4.1 | 2,904 |
| 30 to 34 years | 20,237 | 17,109 | 84.5 | 16,468 | 81.4 | 386 | 16,082 | 641 | 3.7 | 3,128 |
| 35 to 44 years ......................................... | 44,298 | 37,503 | 84.7 | 36,333 | 82.0 | 756 | 35,577 | 1,170 | 3.1 | 6,796 |
| 35 to 39 years ........................................ | 22,431 | 18,892 | 84.2 | 18,267 | 81.4 | 413 | 17,855 | 625 | 3.3 | 3,539 |
| 40 to 44 years ....................................... | 21,867 | 18,611 | 85.1 | 18,065 | 82.6 | 344 | 17,722 | 545 | 2.9 | 3,256 |
| 45 to 54 years ......................................... | 34,335 | 28,249 | 82.3 | 27,598 | 80.4 | 600 | 26,998 | 651 | 2.3 | 6,086 |
| 45 to 49 years ....................................... | 18,717 | 15,825 | 84.5 | 15,475 | 82.7 | 339 | 15,135 | 350 | 2.2 | 2,893 |
| 50 to 54 years ........................................ | 15,618 | 12,424 | 79.6 | 12,123 | 77.6 | 260 | 11,862 | 302 | 2.4 | 3,193 |
| 55 to 64 years ........................................... | 22,117 | 13,143 | 59.4 | 12,848 | 58.1 | 442 | 12,406 | 295 | 2.2 | 8,974 |
| 55 to 59 years ......................................... | 12,078 | 8,420 | 69.7 | 8,254 | 68.3 | 228 | 8,026 | 166 | 2.0 | 3,658 |
| 60 to 64 years ......................................... | 10,039 | 4,723 | 47.0 | 4,594 | 45.8 | 214 | 4,380 | 129 | 2.7 | 5,317 |
| 65 years and over ..................................... | 32,149 | 3,900 | 12.1 | 3,793 | 11.8 | 346 | 3,447 | 108 | 2.8 | 28,249 |
| 65 to 69 years | 9,350 | 2,137 | 22.9 | 2,081 | 22.3 | 137 | 1,944 | 56 | 2.6 | 7,213 |
| 70 to 74 years ......................................... | 8,591 | 1,081 | 12.6 | 1,046 | 12.2 | 109 | 937 | 35 | 3.3 | 7,510 |
| 75 years and over ................................... | 14,209 | 682 | 4.8 | 665 | 4.7 | 100 | 565 | 17 | 2.5 | 13,526 |
| Men |  |  |  |  |  |  |  |  |  |  |
| 16 years and over | 98,591 | 73,853 | 74.9 | 70,856 | 71.9 | 2,691 | 68,165 | 2,997 | 4.1 | 24,738 |
| 16 to 19 years.. | 7,969 | 4,101 | 51.5 | 3,443 | 43.2 | 209 | 3,235 | 658 | 16.0 | 3,868 |
| 16 to 17 years | 4,072 | 1,631 | 40.0 | 1,333 | 32.7 | 112 | 1,221 | 298 | 18.3 | 2,441 |
| 18 to 19 years ......................................... | 3,897 | 2,470 | 63.4 | 2,111 | 54.2 | 97 | 2,014 | 360 | 14.6 | 1,427 |
| 20 to 24 years ........................................... | 8,743 | 7,210 | 82.5 | 6,626 | 75.8 | 275 | 6,351 | 584 | 8.1 | 1,533 |
| 25 to 54 years | 57,775 | 53,012 | 91.8 | 51,480 | 89.1 | 1,605 | 49,875 | 1,532 | 2.9 | 4,763 |
| 25 to 34 years ......................................... | 19,127 | 17,818 | 93.2 | 17,232 | 90.1 | 594 | 16,639 | 586 | 3.3 | 1,309 |
| 25 to 29 years ....................................... | 9,141 | 8,464 | 92.6 | 8,160 | 89.3 | 308 | 7,853 | 304 | 3.6 | 676 |
| 30 to 34 years ....................................... | 9,986 | 9,354 | 93.7 | 9,072 | 90.8 | 286 | 8,786 | 282 | 3.0 | 632 |
| 35 to 44 years ......................................... | 21,872 | 20,234 | 92.5 | 19,675 | 90.0 | 569 | 19,106 | 559 | 2.8 | 1,638 |
| 35 to 39 years ....................................... | 11,080 | 10,291 | 92.9 | 10,021 | 90.4 | 318 | 9,703 | 269 | 2.6 | 789 |
| 40 to 44 years ....................................... | 10,793 | 9,943 | 92.1 | 9,654 | 89.4 | 251 | 9,403 | 290 | 2.9 | 849 |
| 45 to 54 years .. | 16,775 | 14,960 | 89.2 | 14,573 | 86.9 | 442 | 14,131 | 387 | 2.6 | 1,815 |
| 45 to 49 years ............................ | 9,192 | 8,330 | 90.6 | 8,127 | 88.4 | 251 | 7,876 | 203 | 2.4 | 862 |
| 50 to 54 years ....................................... | 7,583 | 6,630 | 87.4 | 6,446 | 85.0 | 191 | 6,255 | 184 | 2.8 | 954 |
| 55 to 64 years ........................................... | 10,564 | 7,269 | 68.8 | 7.105 | 67.3 | 311 | 6,794 | 164 | 2.3 | 3,295 |
| 55 to 59 years | 5,806 | 4,618 | 79.5 | 4,531 | 78.0 | 154 | 4,376 | 87 | 1.9 | 1,188 |
| 60 to 64 years | 4,758 | 2,651 | 55.7 | 2,574 | 54.1 | 157 | 2,418 | 77 | 2.9 | 2,107 |
| 65 years and over | 13,540 | 2,261 | 16.7 | 2,202 | 16.3 | 291 | 1,910 | 59 | 2.6 | 11,279 |
| 65 to 69 years ... | 4,264 | 1,200 | 28.2 | 1,172 | 27.5 | 121 | 1,051 | 28 | 2.3 | 3,063 |
| 70 to 74 years | 3,776 | 622 | 16.5 | 604 | 16.0 | 87 | 518 | 18 | 2.9 | 3,153 |
| 75 years and over .................................... | 5,501 | 438 | 8.0 | 425 | 7.7 | 84 | 341 | 13 | 3.0 | 5,063 |
| Women |  |  |  |  |  |  |  |  |  |  |
| 16 years and over ......................................... | 106,308 | 63,387 | 59.6 | 60,619 | 57.0 | 861 | 59,759 | 2,767 | 4.4 | 42,921 |
| 16 to 19 years | 7.639 | 3,953 | 51.8 | 3,404 | 44.6 | 87 | 3,317 | 550 | 13.9 | 3,686 |
| 16 to 17 years ......................................... | 3,821 | 1,517 | 39.7 | 1,273 | 33.3 | 31 | 1,242 | 244 | 16.1 | 2,304 |
| 18 to 19 years ......................................... | 3,819 | 2,437 | 63.8 | 2,131 | 55.8 | 56 | 2,075 | 306 | 12.6 | 1,382 |
| 20 to 24 years ... | 8,798 | 6,362 | 72.3 | 5,899 | 67.1 | 69 | 5,830 | 463 | 7.3 | 2,436 |
| 25 to 54 years .......................................... | 59,709 | 45,558 | 76.3 | 43.982 | 73.7 | 519 | 43,464 | 1,576 | 3.5 | 14,150 |
| 25 to 34 years ........................................ | 19,723 | 15,000 | 76.1 | 14,300 | 72.5 | 174 | 14,126 | 701 | 4.7 | 4,723 |
| 25 to 29 years ....................................... | 9,473 | 7,245 | 76.5 | 6,904 | 72.9 | 74 | 6,830 | 341 | 4.7 | 2,228 |
| 30 to 34 years ........................................ | 10,251 | 7,755 | 75.7 | 7,396 | 72.2 | 100 | 7,296 | 359 | 4.6 | 2,495 |
| 35 to 44 years ......................................... | 22,426 | 17,269 | 77.0 | 16,658 | 74.3 | 187 | 16,471 | 611 | 3.5 | 5,157 |
| 35 to 39 years | 11,352 | 8,601 | 75.8 | 8,246 | 72.6 | 95 | 8,151 | 355 | 4.1 | 2,750 |
| 40 to 44 years ........................................ | 11,074 | 8,667 | 78.3 | 8,412 | 76.0 | 93 | 8,319 | 256 | 2.9 | 2,407 |
| 45 to 54 years ........................................ | 17,559 | 13,289 | 75.7 | 13,025 | 74.2 | 158 | 12,867 | 264 | 2.0 | 4,270 |
| 45 to 49 years ....................................... | 9,525 | 7,494 | 78.7 | 7,348 | 77.1 | 88 | 7,259 | 147 | 2.0 | 2,031 |
| 50 to 54 years ....................................... | 8,034 | 5,795 | 72.1 | 5,677 | 70.7 | 69 | 5,608 | 118 | 2.0 | 2,240 |
| 55 to 64 years ........................................... | 11,553 | 5,874 | 50.8 | 5,743 | 49.7 | 131 | 5,612 | 131 | 2.2 | 5,679 |
| 55 to 59 years | 6,272 | 3,802 | 60.6 | 3,723 | 59.4 | 74 | 3,650 | 79 | 2.1 | 2,469 |
| 60 to 64 years | 5,281 | 2,071 | 39.2 | 2,020 | 38.2 | 57 | 1,962 | 52 | 2.5 | 3,210 |
| 65 years and over ................... | 18,609 | 1,639 | 8.8 | 1,591 | 8.6 | 55 | 1,536 | 48 | 2.9 | 16,970 |
| 65 to 69 years .......................................... | 5,086 | 936 | 18.4 | 909 | 17.9 | 16 | 893 | 27 | 2.9 | 4,149 |
| 70 to 74 years ......................................... | 4,815 | 459 | 9.5 | 442 | 9.2 | 22 | 420 | 17 | 3.7 | 4,357 |
| 75 years and over ................................... | 8,708 | 244 | 2.8 | 240 | 2.8 | 16 | 224 | 4 | 1.5 | 8,464 |

[^6]A-14. Employment status of the civilian noninstitutional population by age, sex, and race - Continued


See footnotes at end of table.

A-14. Employment status of the civilian noninstitutional population by age, sex, and race - Continued
(Numbers in thousands)

| Age, sex, and race | May 1998 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Civilian noninstitutional population | Total | Percent of population | Civilian labor force |  |  |  |  |  | Not in labor force |
|  |  |  |  | Employed |  |  |  | Unemployed |  |  |
|  |  |  |  | Total | Percent of population | Agriculture | Nonagricultural industries | Number | Percent of labor force |  |
| BLACK |  |  |  |  |  |  |  |  |  |  |
| 16 years and over ........................................ | 24,317 | 15,709 | 64.6 | 14,336 | 59.0 | 138 | 14,198 | 1,373 | 8.7 | 8,608 |
| 16 to 19 years ........................................... | 2,440 | 938 | 38.5 | 657 | 26.9 | 14 | 643 | 282 | 30.0 | 1,502 |
| 16 to 17 years ......................................... | 1,242 | 298 | 24.0 | 190 | 15.3 | 5 | 185 | 109 | 36.4 | 944 |
| 18 to 19 years ......................................... | 1,198 | 640 | 53.4 | 467 | 39.0 | 9 | 458 | 173 | 27.0 | 558 |
| 20 to 24 years ............................................ | 2,536 | 1,726 | 68.1 | 1,433 | 56.5 | 17 | 1,416 | 293 | 17.0 | 810 |
| 25 to 54 years ............................................ | 14,454 | 11,583 | 80.1 | 10,878 | 75.3 | 86 | 10,792 | 705 | 6.1 | 2,870 |
| 25 to 34 years ......................................... | 5,229 | 4,272 | 81.7 | 3,946 | 75.5 | 23 | 3,923 | 326 | 7.6 | 957 |
| 25 to 29 years ........................................ | 2,549 | 2,022 | 79.3 | 1,863 | 73.1 | 7 | 1,856 | 159 | 7.9 | 527 |
| 30 to 34 years | 2,680 | 2,250 | 84.0 | 2,083 | 77.7 | 17 | 2,067 | 167 | 7.4 | 430 |
| 35 to 44 years ......................................... | 5,500 | 4,475 | 81.4 | 4,229 | 76.9 | 31 | 4,198 | 246 | 5.5 | 1,025 |
| 35 to 39 years ....................................... | 2,837 | 2,305 | 81.2 | 2,166 | 76.3 | 21 | 2,145 | 139 | 6.0 | 532 |
| 40 to 44 years ........................................ | 2,663 | 2,170 | 81.5 | 2,063 | 77.5 | 10 | 2.053 | 107 | 5.0 | 493 |
| 45 to 54 years ......................................... | 3,725 | 2,837 | 76.2 | 2,703 | 72.6 | 32 | 2,671 | 133 | 4.7 | 888 |
| 45 to 49 years ........................................ | 2,162 | 1,715 | 79.3 | 1,633 | 75.5 | 21 | 1,613 | 82 | 4.8 | 447 |
| 50 to 54 years ........................................ | 1,562 | 1,121 | 71.8 | 1,070 | 68.5 | 11 | 1,059 | 51 | 4.6 | 441 |
| 55 to 64 years ........................................... | 2,206 | 1,175 | 53.3 | 1,111 | 50.4 | 18 | 1,093 | 64 | 5.4 | 1,031 |
| 55 to 59 years .......................................... | 1,208 | 738 | 61.1 | 707 | 58.5 | 13 | 694 | 31 | 4.2 | 470 |
| 60 to 64 years ......................................... | 998 | 437 | 43.8 | 404 | 40.5 | 5 | 400 | 33 | 7.5 | 560 |
| 65 years and over ...................................... | 2,682 | 286 | 10.7 | 257 | 9.6 | 4 | 253 | 29 | 10.3 | 2,396 |
| 65 to 69 years ......................................... | 854 | 141 | 16.5 | 134 | 15.6 | 3 | 131 | 7 | 4.9 | 713 |
| 70 to 74 years | 745 | 76 | 10.2 | 62 | 8.3 | - | 62 | 15 | 19.1 | 669 |
| 75 years and over .................................... | 1,084 | 70 | 6.4 | 62 | 5.7 | 1 | 60 | 8 | $\left({ }^{1}\right)$ | 1,014 |
| Men |  |  |  |  |  |  |  |  |  |  |
| 16 years and over ........................................ | 10,900 | 7,432 | 68.2 | 6,842 | 62.8 | 120 | 6,722 | 590 | 7.9 | 3,469 |
| 16 to 19 years ........................ | 1,199 | 423 | 35.3 | 293 | 24.4 | 9 | 284 | 130 | 30.7 | 776 |
| 16 to 17 years ......................................... | 623 | 125 | 20.1 | 85 | 13.7 | - | 85 | 40 | 31.8 | 498 |
| 18 to 19 years ......................................... | 576 | 298 | 51.7 | 208 | 36.0 | 9 | 199 | 90 | 30.3 | 278 |
| 20 to 24 years ............................................ | 1,161 | 803 | 69.1 | 654 | 56.3 | 17 | 637 | 149 | 18.5 | 359 |
| 25 to 54 years ................... | 6,533 | 5,465 | 83.7 | 5,211 | 79.8 | 75 | 5,136 | 254 | 4.7 | 1,068 |
| 25 to 34 years | 2,338 | 2,023 | 86.5 | 1,911 | 81.8 | 21 | 1,890 | 111 | 5.5 | 315 |
| 25 to 29 years | 1,126 | 935 | 83.0 | 884 | 78.5 | 7 | 877 | 51 | 5.5 | 191 |
| 30 to 34 years ........................................ | 1,212 | 1,088 | 89.8 | 1,028 | 84.8 | 14 | 1,013 | 60 | 5.5 | 124 |
| 35 to 44 years.. | 2,514 | 2,101 | 83.6 | 2,013 | 80.1 | 26 | 1,987 | 88 | 4.2 | 413 |
| 35 to 39 years | 1,291 | 1,076 | 83.3 | 1,042 | 80.7 | 17 | 1,026 | 33 | 3.1 | 216 |
| 40 to 44 years ........................................ | 1,223 | 1,025 | 83.8 | 971 | 79.4 | 10 | 961 | 55 | 5.3 | 198 |
| 45 to 54 years ......................................... | 1,681 | 1,342 | 79.8 | 1,287 | 76.5 | 28 | 1,259 | 55 | 4.1 | 339 |
| 45 to 49 years ....................................... | 981 | 811 | 82.7 | 781 | 79.6 | 16 | 765 | 30 | 3.7 | 169 |
| 50 to 54 years ........................................ | 701 | 530 | 75.7 | 506 | 72.2 | 26 | 494 | 25 | 4.7 | 170 |
| 55 to 64 years ........................................... | 935 | 588 | 62.9 | 554 | 59.2 | 15 | 539 | 34 | 5.8 | 347 |
| 55 to 59 years ......................................... | 518 | 366 | 70.7 | 351 | 67.8 | 13 | 338 | 15 | 4.0 | 152 |
| 60 to 64 years ......................................... | 417 | 222 | 53.2 | 202 | 48.5 | 2 | 200 | 20 | 8.8 | 195 |
| 65 years and over ...................................... | 1,072 | 153 | 14.3 | 130 | 12.2 | 4 | 126 | 23 | 14.9 | 919 |
| 65 to 69 years ......................................... | 337 | 74 | 21.8 | 71 | 21.0 | 3 | 68 | 3 | $\binom{1}{1}$ | 263 |
| 70 to 74 years ........................................ | 330 | 34 | 10.2 | 22 | 6.6 | - | 22 | 12 | $\binom{1}{1}$ | 296 |
| 75 years and over .................................. | 406 | 46 | 11.3 | 38 | 9.3 | 1 | 36 | 8 | (1) | 360 |
| Women |  |  |  |  |  |  |  |  |  |  |
| 16 years and over ....................................... | 13,417 | 8,277 | 61.7 | 7.494 | 55.9 | 18 | 7.476 | 783 | 9.5 | 5,140 |
| 16 to 19 years ........................................... | 1,241 | 515 | 41.5 | 364 | 29.3 | 5 | 359 | 152 | 29.4 | 726 |
| 16 to 17 years | 619 | 173 | 28.0 | 104 | 16.8 | 5 | 100 | 69 | 39.8 | 446 |
| 18 to 19 years ......................................... | 622 | 342 | 55.0 | 260 | 41.7 | - | 260 | 83 | 24.2 | 280 |
| 20 to 24 years .......................................... | 1,374 | 923 | 67.2 | 779 | 56.7 | - | 779 | 144 | 15.6 | 451 |
| 25 to 54 years ........................................... | 7,920 | 6,118 | 77.2 | 5,667 | 71.6 | 11 | 5,656 | 451 | 7.4 | 1,802 |
| 25 to 34 years ......................................... | 2,891 | 2,249 | 77.8 | 2,035 | 70.4 | 2 | 2,032 | 214 | 9.5 | 642 |
| 25 to 29 years ....................................... | 1,422 | 1,086 | 76.4 | 979 | 68.8 | - | 979 | 108 | 9.9 | 336 |
| 30 to 34 years ........................................ | 1,469 | 1,162 | 79.1 | 1,056 | 71.9 | 2 | 1,053 | 107 | 9.2 | 306 |
| 35 to 44 years ......................................... | 2,986 | 2,374 | 79.5 | 2,216 | 74.2 | 4 | 2,211 | 158 | 6.7 | 611 |
| 35 to 39 years ........................ | 1,546 | 1,229 | 79.5 | 1,124 | 72.7 | 4 | 1,119 | 106 | 8.6 | 317 |
| 40 to 44 years ....................................... | 1,439 | 1,145 | 79.5 | 1,092 | 75.9 | - | 1,092 | 53 | 4.6 | 295 |
| 45 to 54 years ......................................... | 2,044 | 1,495 | 73.2 | 1,417 | 69.3 | 4 | 1,412 | 78 | 5.2 | 549 |
| 45 to 49 years ........................................ | 1,182 | 904 | 76.5 | 852 | 72.1 | 4 | 848 | 52 | 5.7 | 278 |
| 50 to 54 years ........................................ | 862 | 591 | 68.6 | 564 | 65.5 | - | 564 | 27 | 4.5 | 271 |
| 55 to 64 years ................................ | 1,271 | 587 | 46.2 | 558 | 43.9 | 3 | 555 | 30 | 5.0 | 684 |
| 55 to 59 years .......................................... | 690 | 372 | 53.9 | 356 | 51.5 | - | 356 | 16 | 4.4 | 318 |
| 60 to 64 years ......................................... | 581 | 215 | 37.1 | 202 | 34.8 | 3 | 199 | 13 | 6.2 | 365 |
| 65 years and over ...................................... | 1,610 | 133 | 8.3 | 127 | 7.9 | - | 127 | 7 | 5.0 | 1,477 |
| 65 to 69 years ........................................ | 517 | 67 | 13.0 | 63 | 12.2 | - | 63 | 4 | $\binom{1}{1}$ | 450 |
| 70 to 74 years ......................................... | 415 | 43 | 10.2 | 40 | 9.6 | - | 40 | 3 | (1) | 373 |
| 75 years and over .................................... | 678 | 24 | 3.5 | 24 | 3.5 | - | 24 | - | - | 654 |

[^7]NOTE: Beginning in January 1998, data reflect new composite estimation procedures

A-15. Employment status of the civilian 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 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May $1997$ | May <br> 1998 | May $1997$ | May <br> 1998 | May $1997$ | May <br> 1998 | May <br> 1997 | May $1998$ |
| TOTAL |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population | 202,832 | 204,899 | 89,766 | 90,622 | 97,767 | 98,668 | 15,300 | 15,609 |
| Civilian labor force | 135,963 | 137,240 | 69,146 | 69,752 | 58,984 | 59,434 | 7,832 | 8,054 |
| Percent of population ................................. | 67.0 | 67.0 | 77.0 | 77.0 | 60.3 | 60.2 | 51.2 | 51.6 |
| Employed .................................................. | 129,565 | 131,476 | 66,564 | 67,413 | 56,464 | 57,216 | 6,537 | 6,847 |
| Agriculture | 3,652 | 3,552 | 2,566 | 2,482 | 782 | 774 | 304 | 296 |
| Nonagricultural industries ........................... | 125,912 | 127,924 | 63,997 | 64,930 | 55,682 | 56,442 | 6,233 | 6,552 |
| Unemployed .............................................. | 6,398 | 5,764 | 2,582 | 2,339 | 2,520 | 2,218 | 1,296 | 1,207 |
| Unemployment rate ................................... | 4.7 | 4.2 | 3.7 | 3.4 | 4.3 | 3.7 | 16.5 | 15.0 |
| Not in labor force | 66,870 | 67,659 | 20,620 | 20,870 | 38,782 | 39,235 | 7,468 | 7,554 |
| White |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ..................... | 169,782 | 171,257 | 76,220 | 76,861 | 81,412 | 81,990 | 12,150 | 12,406 |
| Civilian labor force ........................................ | 114,486 | 115,261 | 59,137 | 59,488 | 48,705 | 48,920 | 6,644 | 6,853 |
| Percent of population ................................. | 67.4 | 67.3 | 77.6 | 77.4 | 59.8 | 59.7 | 54.7 | 55.2 |
| Employed .................................................. | 110,004 | 111,127 | 57,284 | 57,746 | 47,000 | 47,416 | 5,721 | 5,965 |
| Agriculture ............................................... | 3,451 | 3,346 | 2,399 | 2,331 | 759 | 735 | 293 | 280 |
| Nonagricultural industries ........................... | 106,553 | 107,781 | 54,885 | 55,415 | 46,240 | 46,681 | 5,428 | 5,685 |
| Unemployed | 4,481 | 4,134 | 1,853 | 1,743 | 1,705 | 1,504 | -923 | -888 |
| Unemployment rate | 3.9 | 3.6 | 3.1 | 2.9 | 3.5 | 3.1 | 13.9 | 13.0 |
| Not in labor force .......................................... | 55,296 | 55,996 | 17,083 | 17,373 | 32,707 | 33,070 | 5,506 | 5,553 |
| Black |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ..................... | 23,950 | 24,317 | 9,551 | 9,701 | 11,996 | 12,176 | 2,403 | 2,440 |
| Civilian labor force | 15,370 | 15,709 | 6,849 | 7,009 | 7,641 | 7,762 | -879 | -938 |
| Percent of population ................................. | 64.2 | 64.6 | 71.7 | 72.2 | 63.7 | 63.7 | 36.6 | 38.5 |
| Employed ................................................... | 13,825 | 14,336 | 6,287 | 6,549 | 6,967 | 7,130 | 572 | 657 |
| Agriculture ............................................... | 127 | 138 | 116 | 111 | 9 | 14 | 2 | 14 |
| Nonagricultural industries ........................... | 13,698 | 14,198 | 6,170 | 6,438 | 6,958 | 7,116 | 570 | 643 |
| Unemployed .............................................. | 1,545 | 1,373 | 563 | 460 | 675 | 631 | 307 | 282 |
| Unemployment rate ................................... | 10.0 | 8.7 | 8.2 | 6.6 | 8.8 | 8.1 | 34.9 | 30.0 |
| Not in labor force ....... | 8,580 | 8,608 | 2,702 | 2,692 | 4,355 | 4,414 | 1,524 | 1,502 |

[^8]procedures and revised population controls used in the household survey.

A-16. Employment status of the civilian noninstitutional population 16 to 24 years of age by school enrollment, educational attainment, sex, race, and Hispanic origin

| Enroliment status, educational attainment, race, and Hispanic origin | May 1998 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Civilian noninstitutional population | Civilian labor force |  |  |  |  |  |  |  |  |
|  |  | Total | Percent of population | Employed |  |  | Unemployed |  |  |  |
|  |  |  |  | Total | Full time | Part time | Total | Looking for full-time work |  | $\begin{gathered} \text { Percent } \\ \text { of } \\ \text { labor } \\ \text { force } \end{gathered}$ |
| TOTAL ENROLLED |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years | 17,336 | 8,449 | 48.7 | 7,536 | 1,539 | 5,997 | 912 | 385 | 527 | 10.8 |
| 16 to 19 years ......................................................... | 12,132 | 5,363 | 44.2 | 4,630 | 469 | 4,161 | 733 | 268 | 465 | 13.7 |
| 20 to 24 years ................................................................ | 5,204 | 3,086 | 59.3 | 2,907 | 1,070 | 1,837 | 179 | 117 | 63 | 5.8 |
| High school .... | 10,258 | 4,335 | 42.3 | 3,707 | 259 | 3,448 | 629 | 208 | 420 | 14.5 |
| Coilege ... | 7,078 | 4,113 | 58.1 | 3,829 | 1,280 | 2,549 | 284 | 177 | 107 | 6.9 |
| Full-time students ...................................................... | 5,967 | 3.154 | 52.9 | 2,908 | 707 | 2,201 | 246 | 156 | 89 | 7.8 |
| Part-time students ....................................................... | 1,111 | 959 | 86.4 | 921 | 573 | 348 | 38 | 20 | 18 | 4.0 |
| Men, 16 to 24 years ........................................................ | 8,629 | 4,067 | 47.1 | 3.616 | 765 | 2,851 | 451 | 194 | 257 | 11.1 |
| 16 to 19 years .......................................................... | 6,181 | 2,658 | 43.0 | 2,285 | 270 | 2,014 | 373 | 143 | 230 | 14.0 |
| 20 to 24 years ........................................................... | 2.448 | 1.410 | 57.6 | 1,332 | 495 | 837 | 78 | 51 | 27 | 5.5 |
| High school ........................................................- | 5,423 3,206 | 2,292 <br> 1,775 | 42.3 55.4 | 1,951 1,665 | 165 600 | 1,786 1,065 | 341 110 | 121 73 | 220 38 | 14.9 6.2 |
| Coilege ............................................................................................ | 2,720 | 1,349 | 49.6 | 1,249 | 328 | +921 | 101 | 68 | 33 | 7.5 |
| Part-time students ........................................................................... | 486 | 426 | 87.6 | 417 | 272 | 145 | 9 | 5 | 5 | 2.2 |
| Women, 16 to 24 years ................................................ | 8,707 | 4,381 | 50.3 | 3,920 | 773 | 3,146 | 461 | 191 | 270 | 10.5 |
| 16 to 19 years .......................................................... | 5,950 | 2,705 | 45.5 | 2,345 | 199 | 2,146 | 360 | 125 | 234 | 13.3 |
| 20 to 24 years ............................................................. | 2,756 | 1,676 | 60.8 | 1.575 | 575 | 1,000 | 101 | 66 | 36 | 6.1 |
| High school | 4,835 | 2,044 | 42.3 | 1,756 | 93 | 1,663 | 288 | 87 | 201 | 14.1 |
| College ... | 3,871 | 2,338 | 60.4 | 2,164 | 680 | 1,484 | 174 | 104 | 69 | 7.4 |
| Fullitime students. | 3,247 | 1,805 | 55.6 | 1,659 | 379 | 1,280 | 145 | 89 | 57 | 8.0 |
| Par-time students .................................................... | 624 | 533 | 85.4 | 504 | 301 | 204 | 28 | 16 | 13 | 5.3 |
| White |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years ...................................................... | 13,685 | 7,205 | 52.6 | 6.509 | 1,295 | 5,214 | 696 | 294 | 402 | 9.7 |
| 16 to 19 years ............................................................ | 9,626 | 4,637 | 48.2 | 4,083 | 408 | 3,674 | 555 | 202 | 353 | 12.0 |
| 20 to 24 years ............................................................ | 4,059 | 2,568 | 63.3 | 2,426 | 887 | 1,539 | 141 | 92 | 49 | 5.5 |
| Men | 6,884 | 3,525 | 51.2 | 3,169 | 687 | 2,481 | 357 | 141 | 216 | 10.1 |
| Women ..................................................................... | 6,801 | 3,679 | 54.1 | 3,340 | 608 | 2,732 | 339 | 154 | 186 | 9.2 |
| High school ..................................................................... | 8.135 | 3,774 | 46.4 | 3,311 | 236 | 3.074 | 463 | 145 | 318 | 12.3 |
| College | 5,550 | 3,431 | 61.8 | 3,198 | 1,059 | 2,140 | 233 | 149 | 84 | 6.8 |
| Full-time students | 4,678 | 2,643 | 56.5 | 2,437 | 588 | 1,849 | 206 | 134 | 72 | 7.8 |
| Part-time students ..................................................... | 872 | 788 | 90.3 | 761 | 470 | 290 | 27 | 15 | 12 | 3.4 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years ...................................................... | 2.552 | 841 | 33.0 | 660 | 152 | 509 | 181 | 72 | 109 | 21.5 |
| 16 to 19 years ............................................................ | 1,853 | 545 | 29.4 | 389 | 35 | 354 | 156 | 56 | 99 | 28.6 |
| 20 to 24 years ............................................................ | 699 | 296 | 42.4 | 271 | 116 | 155 | 25 | 16 | 9 | 8.5 |
| Men ....................................................................... | 1.195 | 339 | 28.4 | 266 | 46 | 220 | 74 | 41 | 32 | 21.7 |
| Women ................................................................... | 1,357 | 502 | 37.0 | 395 | 106 | 288 | 107 | 31 | 76 | 21.4 |
| High school ............................................................... | 1,612 | 436 | 27.1 | 289 | 16 | 273 | 148 | 56 | 92 | 33.8 |
| College .................................................................... | 939 | 405 | 43.1 | 372 | 136 | 236 | 33 | 17 | 17 | 8.2 |
| Full-time students | 791 | 290 | 36.6 | 266 | 70 | 195 | 24 | 11 | 13 | 8.4 |
| Part-time students .................................................... | 149 | 115 | 77.5 | 106 | 66 | 41 | 9 | 5 | 4 | 7.8 |
| Hispanic origin |  |  |  |  |  |  |  |  |  |  |
| Total, 16 to 24 years ..................................................... | 2,123 | 904 | 42.6 | 772 | 197 | 575 | 132 | 51 | 81 | 14.6 |
| 16 to 19 years ............................................................ | 1.582 | 570 | 36.1 | 462 | 69 | 393 | 109 | 37 | 71 | 19.0 |
| 20 to 24 years .............................................................. | 541 | 334 | 61.7 | 310 | 128 | 182 | 24 | 14 | 10 | 7.2 |
| Men .......................................................................... | 1,075 | 470 | 43.7 | 404 | 119 | 285 | 66 | 29 | 37 | 14.1 |
| Women ..................................................................... | 1,047 | 434 | 41.4 | 368 | 78 | 290 | 66 | 22 | 44 | 15.3 |
| High school ............................................................... | 1,426 | 470 | 33.0 | 370 | 50 | 320 | 101 | 36 | 64 | 21.4 |
| Coilege .................................................................... | 697 | 434 | 62.3 | 402 | 147 | 256 | 32 | 15 | 17 | 7.3 |
| Futhtime students ....................................................... | 511 | 269 | 52.7 | 242 | 55 | 187 | 27 | 10 | 17 | 10.0 |
| Par-time students ..................................................... | 185 | 165 | 88.8 | 160 | 92 | 68 | 5 | 5 | - | 3.0 |

[^9]A-16. Employment status of the civilian noninstitutional population 16 to $\mathbf{2 4}$ years of age by school enrollment, educational attainment, sex, race, and Hispanic origin - Continued
(Numbers in thousands)


1 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 college students into 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. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

A-17. Employment status of the civilian noninstitutional population 25 years and over by educational attainment, sex, race, and Hispanic origin
(Numbers in thousands)

| Educational attainment | Total |  | Men |  | Women |  | White |  | Black |  | Hispanic origin |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ... | 170,147 | 171,750 | 81,093 | 81,879 | 89,054 | 89,871 | 143,676 | 144,743 | 19,036 | 19,341 | 15,511 | 16,089 |
| Civilian labor force ....................... | 114,566 | 115,614 | 61,912 | 62,542 | 52,653 | 53,072 | 96,714 | 97,139 | 12,665 | 13,045 | 10,762 | 11,241 |
| Percent of population.. | 67.3 | 67.3 | 76.3 | 76.4 | 59.1 | 59.1 | 67.3 | 67.1 | 66.5 | 67.4 | 69.4 | 69.9 |
| Employed ..... | 110,603 | 112,103 | 59,895 | 60,787 | 50,708 | 51,316 | 93,857 | 94,607 | 11,795 | 12,246 | 10,142 | 10,705 |
| Employment-population ratio ...... | 65.0 | 65.3 | 73.9 | 74.2 | 56.9 | 57.1 | 65.3 | 65.4 | 62.0 | 63.3 | 65.4 | 66.5 |
| Unemployed ........................... | 3,963 | 3,510 | 2,018 | 1,755 | 1,946 | 1,755 | 2,857 | 2,531 | 870 | 799 | 619 | 536 |
| Unemployment rate .... | 3.5 | 3.0 | 3.3 | 2.8 | 3.7 | 3.3 | 3.0 | 2.6 | 6.9 | 6.1 | 5.8 | 4.8 |
| Less than a high school diploma |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ... | 30,198 | 29,931 | 14,323 | 14,261 | 15,875 | 15,670 | 24,250 | 24,080 | 4,607 | 4,549 | 7,027 | 7,055 |
| Civilian labor force | 12,828 | 12,942 | 7,944 | 7,997 | 4,883 | 4,945 | 10,416 | 10,460 | 1,813 | 1,851 | 4,107 | 4,132 |
| Percent of population ................ | 42.5 | 43.2 | 55.5 | 56.1 | 30.8 | 31.6 | 43.0 | 43.4 | 39.3 | 40.7 | 58.5 | 58.6 |
| Employed ... | 11,864 | 12,147 | 7,438 | 7,595 | 4,426 | 4,552 | 9,714 | 9,885 | 1,589 | 1,667 | 3,797 | 3,884 |
| Employment-population ratio ...... | 39.3 | 40.6 | 51.9 | 53.3 | 27.9 | 29.0 | 40.1 | 41.1 | 34.5 | 36.6 | 54.0 | 55.1 |
| Unemployed ............................ | 964 | 796 | 507 | 402 | 457 | 394 | 702 | 575 | 223 | 184 | 310 | 248 |
| Unemployment rate .............. | 7.5 | 6.1 | 6.4 | 5.0 | 9.4 | 8.0 | 6.7 | 5.5 | 12.3 | 10.0 | 7.5 | 6.0 |
| High school graduates, no college |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ... | 57,392 | 57,706 | 26,158 | 26,091 | 31,234 | 31,615 | 48,673 | 49,068 | 6,871 | 6,711 | 4,060 | 4,253 |
| Civilian labor force | 37,791 | 37,627 | 20,004 | 19,927 | 17,787 | 17,701 | 31,684 | 31,587 | 4,842 | 4,728 | 3,042 | 3,138 |
| Percent of population | 65.8 | 65.2 | 76.5 | 76.4 | 56.9 | 56.0 | 65.1 | 64.4 | 70.5 | 70.5 | 74.9 | 73.8 |
| Employed ... | 36,354 | 36,366 | 19,293 | 19,270 | 17,061 | 17,097 | 30,675 | 30,704 | 4,478 | 4,404 | 2,859 | 2,999 |
| Employment-population ratio ...... | 63.3 | 63.0 | 73.8 | 73.9 | 54.6 | 54.1 | 63.0 | 62.6 | 65.2 | 65.6 | 70.4 | 70.5 |
| Unemployed | 1,436 | 1,261 | 710 | 657 | 726 | 604 | 1,010 | 883 | 364 | 324 | 183 | 139 |
| Unemployment rate .................. | 3.8 | 3.4 | 3.6 | 3.3 | 4.1 | 3.4 | 3.2 | 2.8 | 7.5 | 6.9 | 6.0 | 4.4 |
| Less than a bachelor's degree ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ... | 41,648 | 42,024 | 19,139 | 19,606 | 22,508 | 22,417 | 35,209 | 35,282 | 4,889 | 5,111 | 2,800 | 2.972 |
| Civilian labor force | 30,975 | 31,114 | 15,704 | 15,929 | 15,270 | 15,185 | 25,995 | 25,914 | 3,815 | 3,980 | 2,259 | 2,451 |
| Percent of population. | 74.4 | 74.0 | 82.1 | 81.2 | 67.8 | 67.7 | 73.8 | 73.4 | 78.0 | 77.9 | 80.7 | 82.5 |
| Employed | 30,083 | 30,193 | 15,271 | 15,495 | 14,812 | 14,698 | 25,368 | 25,248 | 3,616 | 3,766 | 2,178 | 2,342 |
| Employment-population ratio ...... | 72.2 | 71.8 | 79.8 | 79.0 | 65.8 | 65.6 | 72.0 | 71.6 | 74.0 | 73.7 | 77.8 | 78.8 |
| Unemployed ......................... | 891 | 921 | 433 | 434 | 458 | 487 | 627 | 666 | 199 | 214 | 81 | 110 |
| Unemployment rate ............. | 2.9 | 3.0 | 2.8 | 2.7 | 3.0 | 3.2 | 2.4 | 2.6 | 5.2 | 5.4 | 3.6 | 4.5 |
| Some college, no degree |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ... | 29,191 | 29,774 | 13,854 | 14,177 | 15,336 | 15,597 | 24,486 | 24,829 | 3,676 | 3,844 | 2,045 | 2,191 |
| Civilian labor force ...................... | 21,132 | 21,440 | 11,152 | 11,210 | 9,980 | 10,230 | 17,539 | 17,698 | 2,844 | 2,939 | 1,635 | 1,776 |
| Percent of population | 72.4 | 72.0 | 80.5 | 79.1 | 65.1 | 65.6 | 71.6 | 71.3 | 77.4 | 76.5 | 79.9 | 81.1 |
| Employed ............................... | 20,456 | 20,755 | 10,807 | 10,873 | 9,649 | 9,881 | 17,087 | 17,204 | 2,667 | 2,772 | 1,579 | 1,695 |
| Employment-population ratio ...... | 70.1 | 69.7 | 78.0 | 76.7 | 62.9 | 63.4 | 69.8 | 69.3 | 72.5 | 72.1 | 77.3 | 77.4 |
| Unemployed | 676 | 686 | 345 | 337 | 331 | 349 | 451 | 494 | 177 | 167 | 55 | 81 |
| Unemployment rate ............ | 3.2 | 3.2 | 3.1 | 3.0 | 3.3 | 3.4 | 2.6 | 2.8 | 6.2 | 5.7 | 3.4 | 4.6 |
| Associate degree |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ... | 12,457 | 12,250 | 5,285 | 5,429 | 7,172 | 6,821 | 10,723 | 10,453 | 1,213 | 1,267 | 756 | 781 |
| Civilian labor force | 9,843 | 9,673 | 4,552 | 4,719 | 5,291 | 4,954 | 8,456 | 8,216 | 971 | 1,041 | 624 | 675 |
| Percent of population. | 79.0 | 79.0 | 86.1 | 86.9 | 73.8 | 72.6 | 78.9 | 78.6 | 80.0 | 82.2 | 82.6 | 86.5 |
| Employed | 9,627 | 9,438 | 4,464 | 4,622 | 5,163 | 4,817 | 8,281 | 8,044 | 949 | 995 | 598 | 647 |
| Employment-population ratio ...... | 77.3 | 77.0 | 84.5 | 85.1 | 72.0 | 70.6 | 77.2 | 76.9 | 78.2 | 78.5 | 79.2 | 82.8 |
| Unemployed | 215 | 235 | 88 | 97 | 127 | 138 | 175 | 173 | 21 | 47 | 26 | 29 |
| Unemployment rate .................. | 2.2 | 2.4 | 1.9 | 2.1 | 2.4 | 2.8 | 2.1 | 2.1 | 2.2 | 4.5 | 4.1 | 4.2 |
| College graduates |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ... | 40,909 | 42,090 | 21,472 | 21,921 | 19,436 | 20,168 | 35,543 | 36,314 | 2,670 | 2,971 | 1,624 | 1,809 |
| Civilian labor force ...................... | 32,973 | 33,930 | 18,260 | 18,690 | 14,713 | 15,241 | 28,619 | 29,178 | 2,195 | 2,485 | 1,354 | 1,519 |
| Percent of population ........... | 80.6 | 80.6 | 85.0 | 85.3 | 75.7 | 75.6 | 80.5 | 80.3 | 82.2 | 83.6 | 83.4 | 84.0 |
| Employed ............................... | 32,301 | 33,397 | 17,892 | 18,428 | 14,409 | 14,970 | 28,100 | 28,771 | 2,111 | 2,409 | 1,308 | 1,480 |
| Employment-population ratio ...... | 79.0 | 79.3 | 83.3 | 84.1 | 74.1 | 74.2 | 79.1 | 79.2 | 79.1 | 81.1 | 80.5 | 81.8 |
| Unemployed | 672 | 533 | 368 | 262 | 304 | 271 | 519 | 407 | 84 | 76 | 46 | 39 |
| Unemployment rate .................. | 2.0 | 1.6 | 2.0 | 1.4 | 2.1 | 1.8 | 1.8 | 1.4 | 3.8 | 3.0 | 3.4 | 2.6 |

1 Includes the categories, some college, no degree; and associate degree.
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. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

## NOT SEASONALLY ADJUSTED

A-18. Employed and unemployed full- and part-time workers by age, sex, and race
(In thousands)

| Age, sex, and race | May 1998 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Employed ${ }^{1}$ |  |  |  |  |  |  |  | Unemployed |  |
|  | Full-time workers |  |  |  | Part-time workers |  |  |  | Looking for full-time work | Looking for part-time work |
|  | Total | At work |  | Not at work | Total | At work ${ }^{2}$ |  | Not at work |  |  |
|  |  | 35 hours or more | 1 to 34 hours for economic or noneconomic reasons |  |  | Part time for economic reasons | Part time for noneconomic reasons |  |  |  |
| TOTAL | 108,116 | 96,150 |  |  |  |  |  |  |  |  |
| Total, 16 years and over ...................... |  |  |  | 3,05438 | 23,360 | 2,391 | 19,775 | 1,194168 | 4,715678 | 1,050 |
| 16 to 19 years ....................................... | 2,012 | 1,668 | 8,911 307 |  | - 4,835 |  | 4,402 |  |  | 1,050 |
| 16 to 17 years ..................................... | 224 | 161 | 53 | 9 | 2,382 | 17 | 2,286 | 78 | 188 | 354175 |
| 18 to 19 years ...................................... | 1,789 | 1,507 | 253 | 29 | 2,453 | 248 | 2,116 | 89 | 490 |  |
| 20 years and over ................................... | 106,104 | 94,482 | 8,605 | 3,017 | 18,525 | 2,125 | 15,373 | 1,026 | 4,036 | 521143 |
| 20 to 24 years ...................................... | 9,196 | 8,11986,363 | 876 | 200 | 3,330 | 498 | 2,651 | 181 | 904 |  |
| 25 years and over ................................ | 96,90884,608 |  | 7,728 | 2,817 | 15,195 | 1,628 | 12,723 | 845 | 3,132 | 378 |
| 25 to 54 years ..................................... |  | 75,66510,698 | 6,604 | 2,339 | 10,855 | 1,402 | 8,889 | 563 | 2,856 | 252126 |
| 55 years and over ............................... | $\begin{aligned} & 84,608 \\ & 12,300 \end{aligned}$ |  | 1,124 | 478 | 4,341 | 225 | 3,833 | 282 | 276 |  |
| Men, 16 years and over. | $\begin{array}{r} 63,341 \\ 1,167 \end{array}$ | $\begin{array}{r} 57,260 \\ 989 \end{array}$ | $4,445$ | 1,63727 | 7,515 | 1,007 | 6,127 | 380 | 2,579 | 418266 |
| 16 to 19 years |  |  |  |  | 2,277 | 108899 | 2,084 | 84 | 392 |  |
| 20 years and over | 62,175 | 56,271 | $\begin{array}{r} 4,293 \\ 463 \end{array}$ | $\begin{array}{r} 1,610 \\ 77 \end{array}$ | 5,238 |  | 4,0431,070 | 29665 | 2,187535 | 152 |
| 20 to 24 years | $\begin{array}{r} 5,244 \\ 56,931 \end{array}$ | 4,703 |  |  | 1,382 | 847 |  |  |  | 49 |
| 25 years and over |  | 51,568 | $\begin{array}{r} 463 \\ 3,830 \end{array}$ | 1,533 | 3,856 | 545 | 2,974 | 231 | 1,652 | 103 |
| 25 to 54 years .................................... | $\begin{array}{r} 49,470 \\ 7,461 \end{array}$ | $\begin{array}{r} 44,997 \\ 6,571 \end{array}$ | $\begin{array}{r} 3,234 \\ 596 \end{array}$ | $\begin{array}{r} 1,239 \\ 294 \end{array}$ | 2,010 |  | 1,355 | 110 | 1,492 | 39 |
| 55 years and over ............................... |  |  |  |  | 1,846 | 106 | 1,618 | 121 | 160 | 64 |
| Women, 16 years and over | 44,775 | $\begin{array}{r} 38,891 \\ 679 \end{array}$ | $\begin{array}{r} 4,466 \\ 155 \end{array}$ | $\begin{array}{r} 1,418 \\ 11 \end{array}$ | $\begin{array}{r} 15,845 \\ 2,558 \end{array}$ | $\begin{array}{r} 1,384 \\ 157 \end{array}$ | $\begin{array}{r} 13,647 \\ 2,318 \end{array}$ | $\begin{array}{r} 814 \\ 83 \end{array}$ | 2,135 | 632263 |
| 16 to 19 years ... |  |  |  |  |  |  |  |  | 286 |  |
| 20 years and over |  | $\begin{array}{r} 679 \\ 38,211 \end{array}$ | $4,311$ | $\begin{array}{r} 1,406 \\ 123 \end{array}$ | $\begin{array}{r} 2,558 \\ 13,287 \end{array}$ | $\begin{array}{r} 157 \\ 1,226 \end{array}$ | 11,330 | $\begin{aligned} & 731 \\ & 116 \end{aligned}$ | 1,849 | 36994 |
| 20 to 24 years | 3,952 | 3.416 | $\begin{array}{r} 413 \\ 3,898 \\ 3,370 \\ 528 \end{array}$ |  | $\begin{array}{r} 1,047 \\ 11,339 \end{array}$ | $\begin{aligned} & 250 \\ & 976 \end{aligned}$ | 1,581 |  | 368 |  |
| 25 years and over | $\begin{array}{r} 3,902 \\ 35,977 \\ 4,839 \end{array}$ | 34,795 30,668 4,127 |  | $\begin{array}{r} 1,284 \\ 1,099 \\ 184 \end{array}$ |  |  | 9,749 | $\begin{array}{r} 614 \\ 454 \end{array}$ | 1,4811,364 | 275 |
| 25 to 54 years .................................... |  |  |  |  | 8,844 | 857 | 7,534 |  |  | 21362 |
| 55 years and over ............................... |  |  |  |  | 2,495 | 119 | 2,215 | 161 | 117 |  |
| White |  |  |  |  |  |  |  |  |  |  |
| Men, 16 years and over ....................... | 54,366 | 49,111 | 3,8461283,718 | $\begin{array}{r} 1,409 \\ 27 \end{array}$ | 6,408 | 76174 | 5,2991,838 | $\begin{array}{r} 348 \\ 67 \end{array}$ | 1,928 | 320217 |
| 16 to 19 years ....................................... | 1,048 | 894 |  |  |  |  |  |  | 289 |  |
| 20 years and over ................................. | 53,318 | 48,217 | $\begin{array}{r} 3,718 \\ 414 \end{array}$ | $\begin{array}{r} 1,382 \\ 65 \end{array}$ | 4,4281,128 | 687 | 3,460 | 281 | 1,639 | 103 |
| 20 to 24 years .................................... | 4,569 | $\begin{array}{r}4,091 \\ 44,127 \\ \hline\end{array}$ |  |  |  | 183504 | 2,580 |  | 379 | 38 |
| 25 years and over ................................. | 48,748 |  | $\begin{array}{r} 414 \\ 3,304 \end{array}$ | $\begin{array}{r} 65 \\ 1,317 \end{array}$ | 1,128 3,300 |  |  | 217 | 1,260 | 66 |
| 25 to 54 years ................................... | $\begin{array}{r} 42,141 \\ 6,607 \end{array}$ | 38,323 | 2,776 | 1,042 | 1,633 | 409 | 1,119 | 105 | 1,149 | 26 |
| 55 years and over .............................. |  | 5,804 | 528 | 275 | 1,667 | 95 | 1,461 | 112 | 111 | 40 |
| Women, 16 years and over .................. | 36,488 | 31,664 | 3,697 | 1,127 | 13,866 | 1,087 | 12,050 | 730 | 1,403 | 483 |
| 16 to 19 years ....................................... | 687 | 571 | 112 | , 12 | 2,250 | 155 | 2,026 | 70 | 197 | 185 |
| 20 years and over .................................. | 35,800 | 31,093 | 3,585 | 1,122 | 11,616 | - 932 | 10,024 | 660 | 1,206 | 298 |
| 20 to 24 years ..................................... | 3,248 | 2,815 | 340 | 93 | 1,609 | 187 | 1,320 | 103 | 231 | 67 |
| 25 years and over ................................. | 32,552 | 28,278 | 3,245 | 1,029 | 10,007 | 745 | 8,704 | 557 | 975 | 231 |
| 25 to 54 years ............................................................ 55 | 28,391 4,161 | 24,737 3,541 | 2,793 453 | 861 167 | 7,781 $\mathbf{2 , 2 2 5}$ | 653 93 | 6,726 1,979 | 403 154 | 896 | 177 54 |
| Black |  |  |  |  |  |  |  |  |  |  |
| Men, 16 years and over ....................... | 6,157 | 5,557 | 455 | 145 | 685 | 176 | 493 | 16 | 510 | 80 |
| 16 to 19 years ....................................... | 81 | 64 | 17 | - | 212 | 32 | 168 | 13 | 88 | 42 |
| 20 years and over .................................. | 6,076 | 5,493 | 438 | 145 | 473 | 144 | 326 | 4 | 422 | 38 |
| 20 to 24 years .................................... | 504 | 460 | 41 | 3 | 150 | 50 | 99 | 1 | 139 | 10 |
| 25 years and over ................................ | 5,572 | 5,032 | 397 | 142 | 323 | 94 | 227 | 3 | 283 | 28 |
| 25 to 54 years .................................... | 5,002 | 4,520 | 350 | 133 | 209 | 90 | 119 | - | 247 | 8 |
| 55 years and over ............................... | 569 | 513 | 48 | 9 | 114 | 4 | 108 | 3 | 36 | 21 |
| Women, 16 years and over .................. | 6,092 | 5,312 | 586 | 195 | 1,401 | 232 | 1,129 | 40 | 662 | 122 |
| 16 to 19 years ........................................ | 125 | 84 | 35 | 6 | 239 | 3 | 224 | 12 | 79 | 72 |
| 20 years and over .................................. | 5,967 | 5,228 | 551 | 188 | 1,163 | 230 | 905 | 28 | 582 | 49 |
| . 20 to 24 years ...................................... | 549 | 463 | 65 | 21 | 230 | 42 | 185 | 4 | 123 | 21 |
| 25 years and over ................................. | 5,419 | 4,765 | 486 | 168 | 933 | 188 | 720 | 24 | 459 | 28 |
| 25 to 54 years .................................... | 4,940 | 4,344 | 438 | 158 | 727 | 165 | 541 | 21 | 427 | 25 |
| 55 years and over ............................... | 479 | 421 | 48 | 10 | 205 | 23 | 179 | 3 | 32 |  |
| 1 Employed persons are classified as full | $11-$ or part-t | worker | based on thei |  | udes | e persons at | work 35 hours | more | sified by | heir reaso |
| usual weekly hours at all jobs regardless of | the number | of hours | hey are at work |  | king part | me. | 1998, da |  |  |  |
| during the reference week. Persons abs according to their usual status. | sent from | ork als | are classified |  | TE: Beg ures and | ning in Janua evised popula | 1998, data ion controls us | lect ne in the h | compos sehold s | estimatio vey. |

## HOUSEHOLD DATA

## A-19. Employed persons by occupation, sex, and age

(Percent distribution)

| Occupation | Total |  | Men |  |  |  | Women |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 16 years and over |  | 16 years and over |  | 20 years and over |  | 16 years and over |  | 20 years and over |  |
|  | May $1997$ | May <br> 1998 | May $1997$ | May $1998$ | May $1997$ | May $1998$ | May $1997$ | May $1998$ | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ |
| Total | 129,565 | 131,476 | 69,968 | 70,856 | 66,564 | 67,413 | 59,597 | 60,619 | 56,464 | 57,216 |
| Managerial and professional specialty | 37,391 | 38,672 | 18,907 | 19,584 | 18,806 | 19,468 | 18,484 | 19,088 | 18,382 | 18,946 |
| Executive, administrative, and managerial ................................. | 18,263 | 18,708 | 10,146 | 10,375 | 10,101 | 10,320 | 8,117 | 8,333 | 8,093 | 8,257 |
| Officials and administrators, public administration | 628 | 657 | 327 | 360 | 327 | 360 | 301 | 296 | 301 | 294 |
| Other executive, administrative, and managerial . | 13,152 | 13,460 | 7,998 | 8,024 | 7,956 | 7,974 | 5,154 | 5,437 | 5,134 | 5,390 |
| Management-related occupations ..................... | 4,483 | 4,591 | 1,821 | 1,991 | 1,818 | 1,985 | 2,662 | 2,600 | 2,658 | 2,573 |
| Professional specialty ................... | 19,128 | 19,964 | 8,761 | 9,208 | 8,706 | 9,148 | 10,367 | 10,755 | 10,290 | 10,689 |
| Engineers .............. | 2,037 | 2,021 | 1,834 | 1,784 | 1,829 | 1,784 | 203 | 236 | 202 | 236 |
| Mathematical and computer scientists | 1,504 | 1,593 | 1,025 | 1,140 | 1,018 | 1,138 | 479 | 453 | 479 | 450 |
| Natural scientists | 543 | 452 | 374 | 295 | 374 | 295 | 169 | 157 | 169 | 157 |
| Health diagnosing occupations | 1,006 | 1,054 | 749 | 758 | 749 | 758 | 256 | 296 | 255 | 296 |
| Health assessment and treating occupations | 2,911 | 2,960 | 364 | 466 | 363 | 466 | 2,548 | 2,493 | 2,544 | 2,491 |
| Teachers, college and university | 791 | 853 | 466 | 526 | 460 | 519 | 326 | 327 | 320 | 324 |
| Teachers, except college and university | 4,860 | 5,239 | 1,145 | 1,238 | 1,138 | 1,225 | 3,715 | 4,001 | 3,679 | 3,959 |
| Lawyers and judges | 894 | 1,011 | 640 | 725 | 638 | 725 | 254 | 286 | 254 | 286 |
| Other professional specialty occupations ................................ | 4,582 | 4,782 | 2,165 | 2,276 | 2,136 | 2,238 | 2,417 | 2,506 | 2,388 | 2,489 |
| Technical, sales, and administrative support | 38,132 | 38,247 | 13,773 | 13,678 | 13,028 | 12,948 | 24,359 | 24,569 | 22,707 | 22,740 |
| Technicians and related support | 4,126 | 4,272 | 1,973 | 1,975 | 1,942 | 1,941 | 2,153 | 2,297 | 2,113 | 2,273 |
| Health technologists and technicians | 1,740 | 1,719 | 368 | 323 | 368 | 317 | 1,372 | 1,396 | 1,351 | 1,392 |
| Engineering and science technicians | 1,182 | 1,304 | 901 | 939 | 884 | 923 | 281 | 365 | 268 | 349 |
| Technicians, except health, engineering, and science | 1,205 | 1,250 | 705 | 712 | 691 | 701 | 500 | 537 | 493 | 532 |
| Sales occupations ................................ | 15,766 | 15,905 | 7,926 | 7,927 | 7,404 | 7,449 | 7,840 | 7,978 | 6,743 | 6,755 |
| Supervisors and proprietors | 4,707 | 4,850 | 2,899 | 2,948 | 2,880 | 2,928 | 1,807 | 1,901 | 1,786 | 1,866 |
| Sales representatives, finance and business services | 2,621 | 2,638 | 1,537 | 1,474 | 1,515 | 1,442 | 1,084 | 1,163 | 1,056 | 1,100 |
| Sales representatives, commodities, except retail | 1,398 | 1,495 | 1,074 | 1,094 | 1,066 | 1,094 | 324 | 400 | 319 | 394 |
| Sales workers, retail and personal services | 6,948 | 6,805 | 2,392 | 2,381 | 1,920 | 1,957 | 4,556 | 4,424 | 3,513 | 3,310 |
| Sales-related occupations .................................................... | 92 | 118 | 23 | 29 | 23 | 27 | 70 | 89 | 70 | 86 |
| Administrative support, including clerical ................................... | 18,240 | 18,070 | 3,874 | 3,777 | 3,683 | 3,558 | 14,366 | 14,293 | 13,851 | 13,712 |
| Supervisors .. | 653 | 708 | 272 | 267 | 273 | 264 | 381 | 441 | 381 | 436 |
| Computer equipment operators | 409 | 366 | 180 | 158 | 175 | 155 | 229 | 208 | 227 | 208 |
| Secretaries, stenographers, and typists | 3,720 | 3,716 | 51 | 100 | 50 | 97 | 3,669 | 3,617 | 3,581 | 3,506 |
| Financial records processing | 2,212 | 2,038 | 185 | 137 | 177 | 124 | 2,027 | 1,900 | 2,000 | 1,875 |
| Mail and message distributing | 1,003 | 963 | 612 | 565 | 598 | 546 | 391 | 398 | 380 | 390 |
| Other administrative support, including clerical ......................... | 10,241 | 10,279 | 2,574 | 2,549 | 2,410 | 2,373 | 7,667 | 7,730 | 7,282 | 7,298 |
| Service occupations | 17,407 | 17,749 | 7,097 | 7,153 | 6,097 | 6,152 | 10,310 | 10,597 | 9,215 | 9,477 |
| Private household .................................................................. | 746 | 848 | 41 | 56 | 29 | 50 | 705 | 792 | 608 | 716 |
| Protective service | 2,247 | 2,346 | 1,849 | 1,928 | 1,819 | 1,907 | 397 | 419 | 367 | 373 |
| Service, except private household and protective ....................... | 14,415 | 14,555 | 5,207 | 5,169 | 4,249 | 4,195 | 9,208 | 9,386 | 8,239 | 8,389 |
| Food service .......... | 5,958 | 6,137 | 2,627 | 2,561 | 1,881 | 1,820 | 3,331 | 3,576 | 2,630 | 2,854 |
| Health service | 2,408 | 2,456 | 281 | 324 | 270 | 299 | 2,126 | 2,132 | 2,067 | 2,048 |
| Cleaning and building service | 3,112 | 3,109 | 1,749 | 1,738 | 1,629 | 1,606 | 1,362 | 1,371 | 1,305 | 1,314 |
| Personal service ................................................................. | 2,937 | 2,853 | 548 | 546 | 470 | 470 | 2,389 | 2,307 | 2,236 | 2,173 |
| Precision production, craft, and repair ........................................ | 14,265 | 14,839 | 13,011 | 13,617 | 12,737 | 13,286 | 1,254 | 1,221 | 1,223 | 1,204 |
| Mechanics and repairers | 4,532 | 4,955 | 4,331 | 4,729 | 4,244 | 4,611 | 201 | 226 | 195 | 225 |
| Construction trades ...... | 5,624 | 5,706 | 5,483 | 5,610 | 5,348 | 5,444 | 141 | 95 | 137 | 87 |
| Other precision production, craft, and repair .............................. | 4,109 | 4,178 | 3,197 | 3,278 | 3,146 | 3,231 | 912 | 900 | 891 | 892 |
| Operators, fabricators, and laborers | 18,514 | 18,250 | 14,009 | 13,832 | 13,029 | 12,839 | 4,504 | 4,417 | 4,300 | 4,192 |
| Machine operators, assemblers, and inspectors | 7,891 | 7.653 | 4,943 | 4,692 | 4,811 | 4,513 | 2,948 | 2,961 | 2,891 | 2,870 |
| Transportation and material moving occupations | 5,499 | 5,487 | 4,982 | 4,951 | 4,893 | 4,844 | 516 | 536 | 499 | 519 |
| Motor vehicle operators | 4,126 | 4,055 | 3,676 | 3,586 | 3,610 | 3,511 | 449 | 468 | 433 | 451 |
| Other transportation and material moving occupations ............... | 1,373 | 1,433 | 1,306 | 1,365 | 1,283 | 1,334 | 67 | 68 | 67 | 68 |
| Handlers, equipment cleaners, helpers, and laborers .................. | 5,124 | 5,109 | 4,084 | 4,189 | 3,326 | 3,482 | 1,040 | 920 | 909 | 803 |
| Construction laborers .......................................................... | 802 | 829 | 753 | 794 | 692 | 761 | 49 | 35 | 50 | 35 |
| Other handiers, equipment cleaners, helpers, and laborers ......... | 4,322 | 4,281 | 3,331 | 3,395 | 2,634 | 2,721 | 991 | 885 | 860 | 769 |
| Farming, forestry, and fishing | 3,856 | 3,719 | 3,170 | 2,992 | 2,865 | 2,720 | 686 | 727 | 638 | 656 |
| Farm operators and managers | 1,361 | 1,323 | 1,065 | 1,013 | 1,047 | 1,006 | 296 | 309 | 294 | 306 |
| Other farming, forestry, and fishing occupations ......................... | 2,495 | 2,396 | 2,105 | 1,979 | 1,819 | 1,714 | 390 | 418 | 344 | 350 | NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
A-20. Employed persons by occupation, race, and sex
(Percent distribution)

| Occupation and race | Total |  | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ |
| TOTAL <br> Total, 16 years and over (thousands) $\qquad$ <br> Percent |  |  |  |  |  |  |
|  | 129,565 | 131,476 | 69,968 | 70,856 | 59,597 | 60,619 |
|  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Managerial and professional specialty ............................................................... | 28.9 | 29.4 | 27.0 | 27.6 | 31.0 | 31.5 |
| Executive, administrative, and managerial $\qquad$ <br> Professional specialty | 14.1 | 14.2 | 14.5 | 14.6 | 13.6 | 13.7 |
|  | 14.8 | 15.2 | 12.5 | 13.0 | 17.4 | 17.7 |
| Technical, sales, and administrative support ...................................................... | 29.4 | 29.1 | 19.7 | 19.3 | 40.9 | 40.5 |
| Technicians and related support | 3.2 | 3.2 | 2.8 | 2.8 | 3.6 | 3.8 |
| Sales occupations | 12.2 | 12.1 | 11.3 | 11.2 | 13.2 | 13.2 |
| Administrative support, including clerical ............................................................ | 14.1 | 13.7 | 5.5 | 5.3 | 24.1 | 23.6 |
| Service occupations ............................... | 13.4 | 13.5 | 10.1 | 10.1 | 17.3 | 17.5 |
| Private household | . 6 | . 6 | ( ${ }^{1}$ ) | . 1 | 1.2 | 1.3 |
| Protective service | 1.7 | 1.8 | 2.6 | 2.7 | . 7 | . 7 |
| Service, except private household and protective | 11.1 | 11.1 | 7.4 | 7.3 | 15.5 | 15.5 |
| Precision production, craft, and repair | 11.0 | 11.3 | 18.6 | 19.2 | 2.1 | 2.0 |
| Operators, fabricators, and laborers | 14.3 | 13.9 | 20.0 | 19.5 | 7.6 | 7.3 |
| Machine operators, assemblers, and inspectors .................................................. | 6.1 | 5.8 | 7.1 | 6.6 | 4.9 | 4.9 |
| Transportation and material moving occupations ................................................. | 4.2 | 4.2 | 7.1 | 7.0 | . 9 | . 9 |
| Handlers, equipment cleaners, helpers, and laborers ................................................................................................................................ | 4.0 | 3.9 | 5.8 | 5.9 | 1.7 | 1.5 |
|  | 3.0 | 2.8 | 4.5 | 4.2 | 1.2 | 1.2 |
| White |  |  |  |  |  |  |
| Total, 16 years and over (thousands) Percent | $\begin{array}{r} 110,004 \\ 100.0 \end{array}$ | $\begin{array}{r} 111,127 \\ 100.0 \end{array}$ | $\begin{array}{r} 60,300 \\ 100.0 \end{array}$ | $\begin{gathered} 60,773 \\ 100.0 \end{gathered}$ | $\begin{gathered} 49,705 \\ 100.0 \end{gathered}$ | $\begin{array}{r} 50,354 \\ 100.0 \end{array}$ |
|  |  |  |  |  |  |  |
| Managerial and professional specialty ................................................................ | 30.0 | 30.4 | 28.0 | 28.6 | 32.4 | 32.6 |
| Executive, administrative, and managerial Professional specialty | 14.8 | 14.9 | 15.3 | 15.4 | 14.3 | 14.3 |
|  | 15.2 | 15.5 | 12.8 | 13.2 | 18.1 | 18.3 |
| Technical, sales, and administrative support ......................................................... | 29.4 | 29.1 | 19.6 | 19.3 | 41.2 | 41.0 |
| Technicians and related support ....................................................................... | 3.1 | 3.2 | 2.8 | 2.7 | 3.6 | 3.8 |
| Sales occupations ......................................................................................... | 12.5 | 12.4 | 11.7 | 11.6 | 13.3 | 13.3 |
| Administrative support, including clerical ............................................................. | 13.8 | 13.6 | 5.2 | 5.1 | 24.3 | 23.9 |
| Service occupations ......................................................................................... | 12.4 | 12.5 | 9.2 | 9.3 | 16.2 | 16.3 |
| Private household .......................................................................................... | . 5 | . 6 | ( ${ }^{1}$ ) | . 1 | 1.1 | 1.3 |
| Protective service ........................................................................................... | 1.6 | 1.7 | 2.5 | 2.6 | . 5 | . 5 |
| Service, except private household and protective ................................................ | 10.2 | 10.2 | 6.6 | 6.6 | 14.5 | 14.5 |
| Precision production, craft, and repair ............................................................... | 11.5 | 11.7 | 19.3 | 19.8 | 2.0 | 2.0 |
| Operators, fabricators, and laborers ................................................................... | 13.5 | 13.1 | 19.0 | 18.3 | 6.8 | 6.7 |
| Machine operators, assemblers, and inspectors $\qquad$ Transportation and material moving occupations $\qquad$ | 5.6 | 5.4 | 6.7 | 6.2 | 4.3 | 4.4 |
|  | 4.1 | 4.0 | 6.8 | 6.6 | .9 17 | . 9 |
| Handlers, equipment cleaners, helpers, and laborers ............................................................................................................................. | 3.7 | 3.7 | 5.4 | 5.5 | 1.7 | 1.4 |
|  | 3.3 | 3.1 | 4.9 | 4.6 | 1.3 | 1.4 |
| Black |  |  |  |  |  |  |
| Total, 16 years and over (thousands) <br> Percent | 13,825 | 14,336 | 6,562 | 6,842 | 7,263 | 7,494 |
|  | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Мanagerial and professional specialty ............................................................... | 19.3 | 20.8 | 15.9 | 16.7 | 22.3 | 24.6 |
| Executive, administrative, and managerial $\qquad$ | 8.8 | 9.3 | 8.2 | 8.1 | 9.3 | 10.4 |
|  | 10.5 | 11.5 | 7.7 | 8.5 | 13.0 | 14.2 |
| Professional specialty $\qquad$ <br> Technical, sales, and administrative support $\qquad$ | 29.3 | 28.0 | 18.2 | 16.5 | 39.3 | 38.6 |
| Technicians and related support ...................................................................... | 3.1 | 3.1 | 2.7 | 2.5 | 3.5 | 3.6 |
| Sales occupations .. | 9.3 | 9.3 | 6.8 | 7.2 | 11.5 | 11.3 |
| Administrative support, including clerical ........................................................... | 17.0 | 15.6 | 8.7 | 6.8 | 24.4 | 23.7 |
| Service occupations ......................................................................................... | 21.4 | 20.7 | 17.7 | 15.7 | 24.8 | 25.2 |
| Private household | . 9 | . 8 | 4.6 | . 1 | 1.7 | 1.4 |
| Protective service | 3.0 | 3.1 | 4.6 | 4.3 | 1.5 | 1.9 21.8 |
| Service, except private household and protective ............................................... | 17.5 | 16.8 | 13.1 | 11.4 | 21.6 | 21.8 |
| Precision production, craft, and repair .................................................................. | 8.4 | 8.8 | 14.8 | 16.4 | 2.5 | 1.7 |
|  | 20.4 | 20.5 | 30.9 | 32.4 | 10.9 | 9.7 |
| Machine operators, assemblers, and inspectors ................................................ | 8.8 | 8.4 | 9.9 | 9.9 | 7.7 | 7.1 |
| Transportation and material moving occupations ............................................... | 6.0 | 6.4 | 11.4 | 12.4 | 1.2 | . 9 |
| Handlers, equipment cleaners, helpers, and laborers Farming, forestry, and fishing | 5.6 | 5.7 | 9.6 | 10.0 | 2.0 | 1.7 |
|  | 1.2 | 1.2 | 2.4 | 2.3 | . 2 | . 2 |

[^10]
## A-21. Employed persons by industry and occupation

(In thousands)

| Industry | May 1998 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total employed | Managerial and professional specialty |  | Technical, sales, and administrative support |  |  | Service occupations |  | Preci-sion 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 ${ }^{1}$ |  | Machine operators, assemblers, and inspectors | Transportation and material moving | Handlers, equipment cleaners, helpers, and laborers |  |
| Agriculture ......................... | 3,552 | 70 | 124 | 70 | 30 | 121 | - | 19 | 38 | 26 | 37 | 19 | 2,997 |
| Mining ... | 646 | 107 | 56 | 26 | 12 | 51 | - | 5 | 197 | 43 | 135 | 13 | 2 |
| Construction ........................ | 8,670 | 1,322 | 138 | 47 | 56 | 433 | - | 30 | 4,997 | 81 | 602 | 929 | 35 |
| Manufacturing .................. | 20,621 | 3,054 | 1,898 | 619 | 711 | 2,008 | - | 270 | 4,131 | 6,115 | 749 | 1,019 | 47 |
| Durable goods .................... | 12,473 | 1,791 | 1,281 | 455 | 264 | 1,136 | - | 156 | 2,970 | 3,431 | 424 | 523 | 42 |
| Nondurable goods .............. | 8,149 | 1,263 | 617 | 164 | 447 | 872 | - | 114 | 1,161 | 2,684 | 326 | 497 | 5 |
| Transportation and public utilities $\qquad$ | 9,317 | 1,302 | 592 | 335 | 270 | 2,265 | - | 323 | 1,229 | 166 | 2,268 | 561 | 6 |
| Wholesale and retail trade ...... | 27,348 | 2,605 | 559 | 251 | 11478 | 2,073 | - | 5,218 | 1,599 | 339 | 1,089 | 2,025 | 113 |
| Wholesale trade .................. | 4,901 | 606 | 135 | 45 | 1,953 | 672 | - | 75 | 358 | 135 | 472 | 376 | 75 |
| Retail trade ........................ | 22,447 | 1,998 | 424 | 206 | 9,525 | 1,401 | - | 5,143 | 1,241 | 204 | 617 | 1,649 | 38 |
| Finance, insurance, and real estate $\qquad$ | 8,413 | 2,343 | 338 | 154 | 2,083 | 2,879 | - | 336 | 197 | 10 | 15 | 10 | 47 |
| Services | 47,272 | 6,635 | 15,281 | 2,524 | 1,244 | 7,013 | 848 | 9,118 | 2,270 | 863 | 543 | 489 | 444 |
| Private households .............. | 977 | 5 | 3 | - | - | 10 | 848 | 51 | 7 | 2 | 2 | 4 | 46 |
| Other service industries ........ | 46,295 | 6,631 | 15,278 | 2,524 | 1,244 | 7,003 | - | 9,067 | 2,264 | 861 | 541 | 485 | 398 |
| Professional services ......... | 31,527 | 4,015 | 13,300 | 2,132 | 218 | 5,081 | - | 5,565 | 514 | 201 | 300 | 126 | 74 |
| Public administration . | 5,637 | 1,270 | 978 | 247 | 21 | 1,227 | - | 1,583 | 181 | 11 | 49 | 43 | 28 |

1 Includes protective service, not shown separately.
NOTE: Beginning in January 1998, data reflect new composite estimation

## hOUSEHOLD DATA

NOT SEASONALLY ADJUSTED
A-22. Employed persons in agriculture and nonagricultural industries by age, sex, and class of worker
(In thousands)

| Age and sex | May 1998 |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Agriculture |  |  | Nonagricultural industries |  |  |  |  |  |  |
|  | Wage and salary workers | Selfemployed workers | Unpaid family workers | Wage and salary workers |  |  |  |  | Selfemployed workers | Unpaid family workers |
|  |  |  |  | Total | Private industries |  |  | Government |  |  |
|  |  |  |  |  | Total | Private household workers | Other private industries |  |  |  |
| Total, 16 years and over ................. | 2,070 | 1,430 | 52 | 118,753 | 100,467 | 975 | 99,491 | 18,287 | 9,068 | 103 |
| 16 to 19 years ............................... | 253 | 28 | 14 | 6,496 | 6,248 | 101 | 6,147 | 247 | 46 | 10 |
| 16 to 17 years ............................. | 111 | 23 | 9 | 2,430 | 2,364 | 54 | 2,310 | 66 | 28 | 5 |
| 18 to 19 years .... | 143 | 5 | 5 | 4,066 | 3,885 | 47 | 3,837 | 181 | 19 | 5 |
| 20 to 24 years ............................... | 305 | 34 | 5 | 11,900 | 10,906 | 114 | 10,792 | 994 | 267 | 14 |
| 25 to 34 years ............................... | 559 | 192 | 16 | 29,232 | 25,604 | 190 | 25,415 | 3,628 | 1,515 | 18 |
| 35 to 44 years ............................... | 446 | 306 | 5 | 32,832 | 27,468 | 203 | 27,265 | 5,364 | 2,719 | 26 |
| 45 to 54 years ............................... | 262 | 335 | 2 | 24,565 | 19,158 | 189 | 18,969 | 5,407 | 2,420 | 13 |
| 55 to 64 years ............................... | 165 | 273 | 4 | 10,940 | 8,745 | 80 | 8,665 | 2,195 | 1,449 | 17 |
| 65 years and over ......................... | 79 | 262 | 5 | 2,789 | 2,337 | 98 | 2,238 | 452 | 653 | 5 |
| Men, 16 years and over ................. | 1,578 | 1,083 | 30 | 62,534 | 54,528 | 114 | 54,414 | 8,006 | 5,602 | 29 |
| 16 to 19 years ............................... | 172 | 24 | 12 | 3,204 | 3,126 | 25 | 3,101 | 78 | 25 | 6 |
| 16 to 17 years ............................. | 83 | 21 | 7 | 1,203 | 1,179 | 10 | 1,168 | 24 | 17 | 1 |
| 18 to 19 years ............................. | 89 | 3 | 5 | 2,001 | 1,947 | 15 | 1,932 | 54 | 8 | 5 |
| 20 to 24 years ............................... | 250 | 24 | 1 | 6,204 | 5,753 | 21 | 5,731 | 451 | 138 | 9 |
| 25 to 34 years ............................... | 436 | 149 | 9 | 15,778 | 14,137 | 21 | 14,116 | 1,642 | 859 | 1 |
| 35 to 44 years ............................... | 337 | 232 | - | 17,454 | 15,177 | 5 | 15,172 | 2,277 | 1,650 | 3 |
| 45 to 54 years ............................... | 188 | 254 | - | 12,603 | 10,284 | 12 | 10,272 | 2,319 | 1,526 | 2 |
| 55 to 64 years ............................... | 122 | 185 | 4 | 5,848 | 4,818 | 15 | 4,804 | 1,030 | 941 | 5 |
| 65 years and over .......................... | 73 | 216 | 3 | 1,444 | 1,235 | 15 | 1,219 | 209 | 463 | 3 |
| Women, 16 years and over ............ | 491 | 347 | 22 | 56,219 | 45,938 | 861 | 45,077 | 10,280 | 3,466 | 75 |
| 16 to 19 years .............................. | 81 | 4 | 2 | 3,292 | 3,123 | 76 | 3,047 | 169 | 21 | 4 |
| 16 to 17 years ............................. | 27 | 2 | 2 | 1,227 | 1,185 | 43 | 1,141 | 42 | 11 | 4 |
| 18 to 19 years ............................. | 54 | 2 | - | 2,064 | 1,938 | 33 | 1,905 | 127 | 10 | - |
| 20 to 24 years ............................... | 55 | 10 | 4 | 5,696 | 5,153 | 93 | 5,061 | 542 | 129 | 6 |
| 25 to 34 years ............................... | 124 | 44 | 7 | 13,454 | 11,468 | 169 | 11,299 | 1,986 | 656 | 16 |
| 35 to 44 years ............................... | 108 | 74 | 5 | 15,378 | 12,291 | 198 | 12,093 | 3,087 | 1,069 | 24 |
| 45 to 54 years ............................... | 74 | 81 | 2 | 11,962 | 8,875 | 177 | 8,697 | 3,088 | 894 | 11 |
| 55 to 64 years ............................... | 43 | 88 | - | 5,092 | 3,927 | 66 | 3,861 | 1,166 | 507 | 12 |
| 65 years and over .......................... | 6 | 46 | 2 | 1,345 | 1,102 | 83 | 1,019 | 243 | 189 | 2 |

NOTE: Beginning in January 1998, data reflect new composite estimation
procedures and revised population controls used in the household survey.
hOUSEHOLD DATA NOT SEASONALLY ADJUSTED

A-23. Persons at work in agriculture and nonagricultural industries by hours of work

| Hours of work | May 1998 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands of persons |  |  | Percent distribution |  |  |
|  | All industries | Agriculture | Nonagricultural industries | All industries | Agriculture | Nonagricultural industries |
| Total, 16 years and over ..................................................... | 127,227 | 3,423 | 123,804 | 100.0 | 100.0 | 100.0 |
| 1 to 34 hours ...................................................................... | 30,199 | 987 | 29,212 | 23.7 | 28.8 | 23.6 |
| 1 to 4 hours ....................................................................... | 1,225 | 71 | 1,153 | 1.0 | 2.1 | . 9 |
| 5 to 14 hours ..................................................................... | 4,952 | 214 | 4,737 | 3.9 | 6.3 | 3.8 |
| 15 to 29 hours .................................................................. | 15,432 | 480 | 14,952 | 12.1 | 14.0 | 12.1 |
| 30 to 34 hours .................................................................. | 8,591 | 221 | 8,370 | 6.8 | 6.5 | 6.8 |
| 35 hours and over ................................................................ | 97,028 | 2,436 | 94,592 | 76.3 | 71.2 | 76.4 |
| 35 to 39 hours ................................................................... | 8,586 | 130 | 8,456 | 6.7 | 3.8 | 6.8 |
| 40 hours ............................................................................ | 46,996 | 763 | 46,233 | 36.9 | 22.3 | 37.3 |
| 41 hours and over .............................................................. | 41,447 | 1,543 | 39,903 | 32.6 | 45.1 | 32.2 |
| 41 to 48 hours ................................................................. | 14,831 | 225 | 14,606 | 11.7 | 6.6 | 11.8 |
| 49 to 59 hours ................................................................. | 14,828 | 422 | 14,406 | 11.7 | 12.3 | 11.6 |
| 60 hours and over ............................................................ | 11,788 | 897 | 10,891 | 9.3 | 26.2 | 8.8 |
| Average hours, total at work ................................................. | 39.8 | 44.3 | 39.7 | - | - | - |
| Average hours, persons who usually work full time .................... | 43.9 | 51.1 | 43.7 | - | - | - |

NOTE: Beginning in January 1998, data reflect new composite estimation
procedures and revised population controls used in the household survey.

A-24. Persons at work $\mathbf{1}$ to 34 hours in all and nonagricultural industries by reason for working less than $\mathbf{3 5}$ hours and usual full- or part-time status
(Numbers in thousands)

| Reason for working less than 35 hours | May 1998 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 ........................................................... | 30,199 | 8,911 | 21,287 | 29,212 | 8,624 | 20,588 |
| Economic reasons | 3,602 | 1,350 | 2,252 | 3.478 | 1,300 | 2,177 |
| Slack work or business conditions ............................................. | 2,005 | 1,085 | 920 | 1,937 | 1,054 | 883 |
| Could only find part-time work ..................................................... | 1,299 | - | 1,299 | 1,265 | - | 1,265 |
| Seasonal work .......................................................................... | 101 | 68 | 34 | 87 | 57 | 29 |
| Job started or ended during week ............................................... | 197 | 197 | - | 189 | 189 | - |
| Noneconomic reasons ................................................................. | 26,596 | 7,561 | 19,035 | 25,734 | 7,324 | 18,411 |
| Child-care problems ................................................................ | 815 | 101 | 714 | 809 | 101 | 708 |
| Other family or personal obligations ............................................ | 5,766 | 640 | 5,125 | 5,596 | 625 | 4,970 |
| Health or medical limitations ...................................................... | 773 | - | 773 | 735 | - | 735 |
| In school or training ............................................................... | 6,610 | 143 | 6,467 | 6,414 | 136 | 6,279 |
| Retired or Social Security limit on earnings ................................... | 2,028 | - | 2,028 | 1,880 | - | 1,880 |
| Vacation or personal day . | 3,602 | 3,602 | - | 3,517 | 3,517 | - |
| Holiday, legal or religious .......................................................... | 90 | 90 | - | 88 | 88 | - |
| Weather-related curtailment ....................................................... | 290 | 290 | - | 225 | 225 | , |
| All other reasons ....................................................................... | 6,621 | 2,693 | 3,928 | 6,471 | 2,632 | 3,840 |
| Average hours: |  |  |  |  |  |  |
| Economic reasons .................................................................... | 23.0 | 24.1 | 22.3 | 23.0 | 24.2 | 22.2 |
| Other reasons | 21.2 | 25.2 | 19.5 | 21.2 | 25.3 | 19.6 |

## A-25. Persons at work in nonagricultural industries by class of worker and usual full- or part-time status

(Numbers in thousands)

| Industry and class of worker | May 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total at work | Worked 1 to 34 hours |  |  |  | Worked 35 hours or more | Average hours |  |
|  |  | Total | For economic reasons | For noneconomic reasons |  |  | Totalatwork | Persons who usually work full time |
|  |  |  |  | Usually work full time | $\begin{gathered} \text { Usually } \\ \text { work } \\ \text { part } \\ \text { time } \\ \hline \end{gathered}$ |  |  |  |
| Total, 16 years and over ............................................... | 123,804 | 29,212 | 3,478 | 7,324 | 18,411 | 94,592 | 39.7 | 43.7 |
| Wage and salary workers ......... | 115,147 | 26,431 | 3,080 | 6,808 | 16,543 | 88,716 | 39.6 | 43.4 |
| Mining | 610 | 35 | 3 | 19 | 13 | 575 | 48.2 | 48.8 |
| Construction ........... | 6,933 | 1,031 | 254 | 482 | 295 | 5,902 | 41.9 | 43.3 |
| Manufacturing . | 19,576 | 2,274 | 318 | 1,237 | 720 | 17,301 | 42.6 | 43.6 |
| Durable goods | 11,898 | 1,232 | 135 | 773 | 324 | 10,665 | 43.1 | 43.8 |
| Nondurable goods ................................................. | 7,678 | 1,042 | 183 | 463 | 396 | 6,636 | 41.8 | 43.3 |
| Transportation and public utilities.. | 8,537 | 1,248 | 183 | 493 | 572 | 7,288 | 42.9 | 44.8 |
| Wholesale and retail trade ............................................ | 24,807 | 8,406 | 1,025 | 1,084 | 6,297 | 16,401 | 37.1 | 44.0 |
| Finance, insurance, and real estate ................................ | 7,609 | 1,258 | 80 | 453 | 725 | 6,351 | 40.5 | 42.7 |
| Service industries ....................................................... | 41,610 | 11,378 | 1,190 | 2,527 | 7,661 | 30,232 | 38.2 | 43.0 |
| Private households .................................................. | 959 | 530 | 68 | 33 | 429 | 429 | 29.3 | 42.9 |
| All other industries | 40,651 | 10,848 | 1,122 | 2,494 | 7,232 | 29,803 | 38.5 | 43.0 |
| Public administration ................................................... | 5,465 | 801 | 28 | 512 | 261 | 4,664 | 41.0 | 42.2 |
| Self-employed workers ................................................. | 8,554 | 2,735 | 388 | 515 | 1,832 | 5,819 | 40.3 | 47.3 |
| Unpaid family workers ................................................... | 103 | 46 | 9 | 1 | 36 | 58 | 39.5 | (1) |

[^11]A-26. Persons at work in nonagricultural industries by age, sex, race, marital status, and usual full- or part-time status
(Numbers in thousands)

| Age, sex, race, and marital status | May 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total at work | Worked 1 to 34 hours |  |  |  | Worked 35 hours or more | Average hours |  |
|  |  | Total | For economic reasons | For noneconomic reasons |  |  | Total at work | Persons who usually work full time |
|  |  |  |  | Usually work full time | Usually work part time |  |  |  |
| TOTAL |  |  |  |  |  |  |  |  |
| Total, 16 years and over | 123,804 | 29,212 | 3,478 | 7,324 | 18,411 | 94,592 | 39.7 | 43.7 |
| 16 to 19 years ................. | 6,363 | 4,690 | 319 | 211 | 4,160 | 1,674 | 24.2 | 38.9 |
| 16 to 17 years ............................................................... | 2,380 | 2,209 | 17 | 44 | 2,149 | 171 | 17.4 | 36.4 |
| 18 to 19 years ............................................................... | 3,983 | 2,481 | 302 | 167 | 2,011 | 1,503 | 28.2 | 39.2 |
| 20 years and over | 117,440 | 24,522 | 3,159 | 7,112 | 14,251 | 92,918 | 40.5 | 43.7 |
| 20 to 24 years ............................................................... | 11,817 | 3,841 | 643 | 685 | 2,513 | 7,976 | 36.3 | 41.6 |
| 25 years and over ........................................................... | 105,623 | 20,681 | 2,516 | 6,428 | 11,738 | 84,942 | 41.0 | 43.9 |
| 25 to 54 years .... | 90,489 | 15,969 | 2,179 | 5,496 | 8,293 | 74,520 | 41.6 | 44.1 |
| 55 years and over ......................................................... | 15,135 | 4,713 | 337 | 931 | 3,444 | 10,422 | 37.3 | 43.1 |
| Men, 16 years and over ................................................ | 66,211 | 10,665 | 1,659 | 3,450 | 5,556 | 55,546 | 42.7 | 45.2 |
| 16 to 19 years ................................................................. | 3,132 | 2,152 | 128 | 97 | 1,927 | 980 | 25.5 | 40.0 |
| 16 to 17 years ........................................................... | 1,179 | 1,062 | 10 118 | 15 | 1,037 | 116 | 18.5 | 39.2 |
| 18 to 19 years ............................................................... | 1,954 | 1,090 | 118 | 82 | 890 | 864 | 29.8 | 40.1 |
| 20 years and over ............................................................ | 63,079 | 8,513 | 1,531 | 3,353 | 3,629 | 54,566 | 43.6 | 45.3 |
| 20 to 24 years .... | 6,217 | 1,669 | 342 | 331 | 996 | 4,547 | 38.4 | 42.7 |
| 25 years and over ........................................................... | 56,862 | 6,844 | 1,189 | 3,022 | 2,633 | 50,018 | 44.2 | 45.6 |
| 25 to 54 years .............................................................. | 48,548 | 4,808 | 1,013 | 2,550 | 1,246 | 43,740 | 44.9 | 45.7 |
| 55 years and over ........................................................ | 8,315 | 2,036 | 176 | 472 | 1,388 | 6,279 | 39.9 | 44.5 |
| Women, 16 years and over ............................................ | 57,592 | 18,547 | 1,818 | 3,874 | 12,854 | 39,046 | 36.2 | 41.5 |
| 16 to 19 years ................................................................ | 3,231 | 2,538 | 191 | 114 | 2,233 | 693 | 22.9 | 37.5 |
| 16 to 17 years ................................................................ | 1,202 | 1,147 | 6 | 28 | 1,112 | 55 | 16.4 | 32.0 |
| 18 to 19 years ............................................................... | 2,029 | 1,391 | 184 | 86 | 1,121 | 638 | 26.7 | 38.1 |
| 20 years and over ............................................................ | 54,361 | 16,009 | 1,628 | 3,760 | 10,621 | 38,353 | 37.0 | 41.6 |
| 20 to 24 years ............................................................... | 5,600 | 2,171 | 301 | 354 | 1,517 | 3,429 | 33.9 | 40.2 |
| 25 years and over .......................................................... | 48,761 | 13,837 | 1,327 | 3,406 | 9,104 | 34,924 | 37.3 | 41.7 |
| 25 to 54 years .... | 41,941 | 11,161 | 1,167 | 2,946 | 7,048 | 30,780 | 37.9 | 41.8 |
| 55 years and over | 6,820 | 2,676 | 160 | 460 | 2,057 | 4,144 | 34.0 | 41.1 |
| Race |  |  |  |  |  |  |  |  |
| White, 16 years and over | 104,294 | 25,034 | 2,699 | 6,242 | 16,092 | 79,260 | 39.8 | 43.9 |
| Men ............................................................................... | 56,549 | 9,057 | 1,283 | 3,013 | 4,761 | 47,492 | 43.0 | 45.5 |
| Women ......... | 47,745 | 15,977 | 1,416 | 3,229 | 11,332 | 31,768 | 36.0 | 41.6 |
| Black, 16 years and over | 13,801 | 2,953 | 599 | 808 | 1,545 | 10,848 | 39.0 | 42.0 |
| Men ... | 6,560 | 1,074 | 289 | 316 | 469 | 5,486 | 41.2 | 43.3 |
| Women | 7,241 | 1,879 | 310 | 492 | 1,077 | 5,362 | 37.0 | 40.6 |
| Marital status |  |  |  |  |  |  |  |  |
| Men, 16 years and over: |  |  |  |  |  |  |  |  |
| Married, spouse present | 39,786 | 4,392 | 640 | 2,099 | 1,653 | 35,394 | 44.7 | 46.0 |
| Widowed, divorced, or separated ....................................... | 8,448 | 1,241 | 242 | 488 | 510 | 7,207 | 43.3 | 45.1 |
| Single (never married) ................................................... | 17,978 | 5,032 | 778 | 862 | 3,393 | 12,945 | 38.0 | 43.2 |
| Women, 16 years and over: |  |  |  |  |  |  |  |  |
| Married, spouse present ................................................. | 30,995 | 9,901 2,923 | 684 457 | 2,083 877 | 7,133 1,589 | 21,095 8,687 | 36.3 38.4 | 41.4 41.9 |
| Widowed, divorced, or separated ...................................... | 11,611 | 2,923 | 457 | 877 | 1,589 | 8,687 | 38.4 | 41.9 |
| Single (never married) ..................................................... | 14,986 | 5,723 | 677 | 914 | 4,132 | 9,264 | 34.3 | 41.2 |

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED
A-27. Persons at work in nonfarm occupations by sex and usual full- or part-time status
(Numbers in thousands)

| Occupation and sex | May 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total at work | Worked 1 to 34 hours |  |  |  | Worked 35 hours or more | Average hours |  |
|  |  | Total | For economic reasons | For noneconomic reasons |  |  | Total at work | Persons who usually work full time |
|  |  |  |  | Usually work full time | Usually work part time |  |  |  |
| Total, 16 years and over ${ }^{1}$ | 123,627 | 29,151 | 3,442 | 7,317 | 18,392 | 94,476 | 39.7 | 43.7 |
| Managerial and professional specialty | 37,457 | 6,598 | 480 | 2,302 | 3,816 | 30,858 | 42.5 | 45.3 |
| Executive, administrative, and managerial | 18,136 | 2,458 | 154 | 1,084 | 1,220 | 15,678 | 44.3 | 46.2 |
| Professional specialty ................................................................. | 19,321 | 4,140 | 326 | 1,218 | 2,596 | 15,181 | 40.8 | 44.4 |
| Technical, sales, and administrative support ..................................... | 37,053 | 10,184 | 884 | 2,234 | 7,067 | 26,869 | 37.9 | 42.6 |
| Technicians and related support | 4,122 | 837 | 63 | 285 | 489 | 3,285 | 39.4 | 41.9 |
| Sales occupations ................. | 15,352 | 4,539 | 469 | 662 | 3,407 | 10,813 | 39.0 | 45.3 |
| Administrative support, including clerical | 17,579 | 4,809 | 352 | 1,286 | 3,170 | 12,771 | 36.6 | 40.6 |
| Service occupations ............................. | 17,103 | 7,025 | 989 | 892 | 5,144 | 10,078 | 34.2 | 42.0 |
| Private household | 831 | 461 | 59 | 23 | 378 | 370 | 29.4 | 43.4 |
| Protective service | 2,253 | 376 | 43 | 132 | 202 | 1,876 | 41.5 | 44.0 |
| Service, except private household and protective | 14,020 | 6,188 | 887 | 737 | 4,564 | 7,832 | 33.3 | 41.5 |
| Precision production, craft, and repair .................. | 14,385 | 1,857 | 404 | 884 | 568 | 12,528 | 42.5 | 43.6 |
| Operators, fabricators, and laborers ... | 17,629 | 3,486 | 684 | 1,005 | 1,797 | 14,143 | 40.6 | 43.5 |
| Machine operators, assemblers, and inspectors | 7,400 | 1,141 | 253 | 496 | 393 | 6,259 | 40.6 | 42.0 |
| Transportation and material moving occupations | 5,297 | 832 | 144 | 236 | 452 | 4,465 | 44.8 | 47.3 |
| Handlers, equipment cleaners, helpers, and laborers ....................... | 4,932 | 1,513 | 287 | 274 | 952 | 3,418 | 36.2 | 41.3 |
| Men, 16 years and over ${ }^{1}$. | 65,915 | 10,548 | 1,637 | 3,431 | 5,480 | 55,367 | 42.8 | 45.3 |
| Managerial and professional specialty | 19,067 | 2,231 | 199 | 985 | 1,047 | 16,836 | 45.6 | 47.4 |
| Executive, administrative, and managerial | 10,116 | 961 | 75 | 492 | 394 | 9,155 | 47.0 | 48.3 |
| Professional specialty ........................ | 8,951 | 1,270 | 125 | 492 | 653 | 7,682 | 44.0 | 46.3 |
| Technical, sales, and administrative support | 13,310 | 2,254 | 257 | 609 | 1,388 | 11,056 | 42.5 | 45.5 |
| Technicians and related support | 1,913 | 264 | 30 | 116 | 118 | 1,650 | 41.7 | 43.3 |
| Sales occupations .... | 7,715 | 1,308 | 135 | 265 | 907 | 6,407 | 44.0 | 47.6 |
| Administrative support, including clerical | 3,682 | 683 | 92 | 227 | 363 | 2,999 | 39.8 | 42.5 |
| Service occupations ............................. | 6,913 | 2,075 | 328 | 313 | 1,433 | 4,838 | 37.6 | 43.5 |
| Private household. | 52 | 27 | 6 | - | 21 | 24 | ${ }^{(2)}$ | ( ${ }^{2}$ ) |
| Protective service | 1,854 | 250 | 32 | 108 | 110 | 1,604 | 42.8 | 44.4 |
| Service, except private household and protective | 5,007 | 1,798 | 290 | 206 | 1,302 | 3,209 | 35.8 | 43.0 |
| Precision production, craft, and repair ....... | 13,216 | 1,634 | 385 | 805 | 444 | 11,582 | 42.7 | 43.7 |
| Operators, fabricators, and laborers ....... | 13,409 | 2,354 | 468 | 718 | 1,168 | 11,055 | 41.7 | 44.3 |
| Machine operators, assemblers, and inspectors | 4,558 | 593 | 141 | 290 | 162 | 3,965 | 41.7 | 42.7 |
| Transportation and material moving occupations | 4,780 | 617 | 118 | 210 | 289 | 4,163 | 45.7 | 47.6 |
| Handlers, equipment cleaners, helpers, and laborers ........................ | 4,071 | 1,143 | 208 | 219 | 716 | 2,928 | 37.1 | 41.8 |
| Women, 16 years and over ${ }^{1}$....................................................... | 57,711 | 18,603 | 1,805 | 3,886 | 12,912 | 39,108 | 36.2 | 41.5 |
| Managerial and professional specialty | 18,389 | 4,368 | 281 | 1,317 | 2,769 | 14,022 | 39.2 | 42.8 |
| Executive, administrative, and managerial | 8,020 | 1,497 | 80 | 592 | 826 | 6,523 | 40.9 | 43.3 |
| Professional specialty ............................ | 10,369 | 2,870 | 201 | 726 | 1,943 | 7,499 | 37.9 | 42.4 |
| Technical, sales, and administrative support | 23,743 | 7.930 | 627 | 1,625 | 5,678 | 15,813 | 35.3 | 40.7 |
| Technicians and related support ............. | 2,209 | 573 | 33 | 169 | 371 | 1,635 | 37.4 | 40.5 |
| Sales occupations | 7,637 | 3,231 | 334 | 397 | 2,500 | 4,406 | 33.9 | 42.1 |
| Administrative support, including clerical ........................................ | 13,897 | 4,126 | 260 | 1,059 | 2,807 | 9,771 | 35.8 | 40.1 |
| Service occupations ...... | 10,191 | 4,950 | 661 | 578 | 3,710 | 5,240 | 31.9 | 40.8 |
| Private household | 779 | 434 | 54 | 23 | 357 | 346 | 29.3 | 43.2 |
| Protective service | 398 | 126 | 10 | 24 | 91 | 272 | 35.4 | 41.3 |
| Service, except private household and protective | 9,013 | 4,390 | 597 | 531 | 3,262 | 4,623 | 32.0 | 40.6 |
| Precision production, cratt, and repair | 1,169 | 223 | 19 | 79 | 124 | 946 | 39.4 | 41.9 |
| Operators, fabricators, and laborers | 4,220 | 1,132 | 216 | 287 | 629 | 3,087 | 37.1 | 40.8 |
| Machine operators, assemblers, and inspectors .............................. | 2,842 | 548 | 112 | 206 | 231 | 2,294 | 38.8 | 40.8 |
| Transportation and material moving occupations .......... | 518 | 215 | 26 79 | 26 | 163 | 303 | 36.1 | 43.5 39.1 |
| Handlers, equipment cleaners, helpers, and laborers ....................... | 861 | 370 | 79 | 55 | 236 | 491 | 32.2 | 39.1 |

1 Excludes farming, forestry, and fishing occupations.
2 Data not shown where base is less than 75,000

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

A-28. 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 |  |
|  | May $1997$ | May $1998$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | May $1998$ | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | May $1998$ | May 1997 | May <br> 1998 |
| Total, 16 years and over ........................................ | 3,223 | 2,997 | 4.4 | 4.1 | 3,175 | 2,767 | 5.1 | 4.4 |
| Married, spouse present ............................................. | 1,074 | 946 | 2.5 | 2.2 | 959 | 835 | 2.9 | 2.5 |
| Widowed, divorced, or separated ................................. | 448 | 404 | 4.9 | 4.3 | 626 | 546 | 4.9 | 4.3 |
| Single (never married) ............................................... | 1,701 | 1,647 | 8.3 | 7.9 | 1,590 | 1,386 | 9.6 | 8.1 |
| White, 16 years and over ....................................... | 2,318 | 2,248 | 3.7 | 3.6 | 2,163 | 1,886 | 4.2 | 3.6 |
| Married, spouse present ............................................ | 872 | 729 | 2.3 | 1.9 | 766 | 702 | 2.6 | 2.4 |
| Widowed, divorced, or separated ................................. | 327 | 319 | 4.4 | 4.1 | 432 | 363 | 4.3 | 3.6 |
| Single (never married) ................................................ | 1,119 | 1,200 | 6.7 | 7.0 | 966 | 821 | 7.8 | 6.4 |
| Black, 16 years and over ....................................... | 717 | 590 | 9.9 | 7.9 | 827 | 783 | 10.2 | 9.5 |
| Married, spouse present ............................................. | 137 | 131 | 4.2 | 3.9 | 132 | 95 | 5.3 | 3.7 |
| Widowed, divorced, or separated ................................. | 94 | 79 | 7.4 | 6.2 | 174 | 172 | 7.7 | 7.8 |
| Single (never married) ............................................... | 486 | 380 | 17.4 | 13.5 | 522 | 516 | 15.5 | 14.7 |
| Total, 25 years and over ....................................... | 2,018 | 1,755 | 3.3 | 2.8 | 1,946 | 1,755 | 3.7 | 3.3 |
| Married, spouse present ............................................. | 1,001 | 889 | 2.4 | 2.1 | 869 | 756 | 2.7 | 2.3 |
| Widowed, divorced, or separated ................................. | 418 | 387 | 4.8 | 4.2 | 574 | 514 | 4.7 | 4.2 |
| Single (never married) ................................................ | 599 | 479 | 5.5 | 4.3 | 502 | 485 | 6.1 | 5.7 |
| White, 25 years and over ....................................... | 1,498 | 1,326 | 2.8 | 2.5 | 1,358 | 1,206 | 3.1 | 2.8 |
| Married, spouse present ............................................. | 823 | 677 | 2.2 | 1.8 | 697 | 628 | 2.5 | 2.2 |
| Widowed, divorced, or separated ................................. | 298 | 302 | 4.2 | 4.0 | 401 | 336 | 4.1 | 3.5 |
| Single (never married) ................................................ | 378 | 346 | 4.4 | 4.0 | 260 | 241 | 4.5 | 4.1 |
| Black, 25 years and over ....................................... | 383 | 311 | 6.4 | 5.0 | 486 | 487 | 7.3 | 7.1 |
| Married, spouse present ............................................. | 114 | 125 | 3.6 | 3.9 | 112 | 92 | 4.7 | 3.7 |
| Widowed, divorced, or separated ................................. | 93 | 79 | 7.4 | 6.2 | 157 | 168 | 7.2 | 7.7 |
| Single (never married) .................................... | 177 | 107 | 10.8 | 6.3 | 218 | 227 | 10.3 | 10.3 |

NOTE: Beginning in 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

A-29. Unemployed persons by occupation and sex

| Occupation | Thousands of persons |  | Unemployment rates |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | Total |  | Men |  | Women |  |
|  | May $1997$ | May $1998$ | May $1997$ | May $1998$ | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | May $1998$ |
| Total, 16 years and over ${ }^{1}$.............................................................. | 6,398 | 5,764 | 4.7 | 4.2 | 4.4 | 4.1 | 5.1 | 4.4 |
| Managerial and professional specialty | 765 | 622 | 2.0 | 1.6 | 2.1 | 1.5 | 1.9 | 1.7 |
| Executive, administrative, and managerial ........................................... | 359 | 286 | 1.9 | 1.5 | 1.9 | 1.4 | 2.0 | 1.6 |
| Prolessional specialty ...................................................................... | 406 | 337 | 2.1 | 1.7 | 2.4 | 1.6 | 1.8 | 1.7 |
| Technical, sales, and administrative support ........................................... | 1,565 | 1,566 | 3.9 | 3.9 | 3.0 | 3.3 | 4.4 | 4.3 |
| Technicians and related support | 89 | 132 | 2.1 | 3.0 | 2.2 | 2.8 | 2.0 | 3.2 |
| Sales occupations ........................................................................... | 776 | 695 | 4.7 | 4.2 | 3.2 | 3.0 | 6.1 | 5.4 |
| Administrative support, including clerical ............................................. | 700 | 738 | 3.7 | 3.9 | 3.1 | 4.2 | 3.9 | 3.9 |
| Service occupations .......................................................................... | 1,293 | 1,082 | 6.9 | 5.7 | 6.9 | 5.4 | 6.9 | 6.0 |
| Private household | 50 | 86 | 6.3 | 9.2 | (2) | $\left({ }^{2}\right)$ | 6.1 | 8.9 |
| Protective service | 104 | 62 | 4.4 | 2.6 | 3.8 | 2.1 | 7.5 | 4.8 |
| Service, except private household and protective ................................. | 1,138 | 933 | 7.3 | 6.0 | 8.0 | 6.4 | 6.9 | 5.8 |
| Precision production, craft, and repair ................................................... | 643 | 615 | 4.3 | 4.0 | 4.2 | 4.0 | 5.0 | 4.1 |
| Mechanics and repairers .................................................................. | 124 | 149 | 2.7 | 2.9 | 2.7 | 3.1 | 1.6 | - |
| Construction trades | 375 | 334 | 6.3 | 5.5 | 6.1 | 5.4 | 13.3 | 13.3 |
| Other precision production, craft, and repair ......................................... | 144 | 132 | 3.4 | 3.1 | 3.1 | 2.8 | 4.3 | 4.1 |
| Operators, fabricators, and laborers . | 1,337 | 1,170 | 6.7 | 6.0 | 6.2 | 5.8 | 8.5 | 6.8 |
| Machine operators, assemblers, and inspectors | 509 | 440 | 6.1 | 5.4 | 4.7 | 5.0 | 8.3 | 6.2 |
| Transportation and material moving occupations .................................. | 277 | 239 | 4.8 | 4.2 | 4.9 | 4.1 | 4.1 | 4.6 |
| Handlers, equipment cleaners, helpers, and laborers ............................ | 551 | 490 | 9.7 | 8.8 | 9.4 | 8.5 | 11.0 | 9.7 |
| Construction laborers .................................................................... | 144 | 116 | 15.2 | 12.3 | 15.4 | 12.3 | ${ }^{2}$ ) | (2) |
| Other handlers, equipment cleaners, helpers, and laborers | 407 | 374 | 8.6 | 8.0 | 7.9 | 7.6 | 11.0 | 9.6 |
| Farming, forestry, and fishing ............................................................. | 205 | 190 | 5.0 | 4.9 | 4.1 | 4.8 | 9.3 | 5.1 |
| No previous work experience ............................................................. | 569 | 486 | - | - | - | - | - | - |
| 16 to 19 years ............. | 385 | 364 | - | - | $\sim$ | - | - | - |
| 20 to 24 years ............................................................................... | 85 | 63 | - | - | - | - | - | - |
| 25 years and over ........................................................................... | 98 | 60 | - | - | - | - | - | - |

[^12]NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

| Industry | Thousands of persons |  | Unemployment rates |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total |  | Total |  | Men |  | Women |  |
|  | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | May 1998 | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ |
| Total, 16 years and over | 6,398 | 5,764 | 4.7 | 4.2 | 4.4 | 4.1 | 5.1 | 4.4 |
| Nonagricultural private wage and salary workers .................................... | 5,074 | 4,605 | 4.9 | 4.4 | 4.7 | 4.2 | 5.2 | 4.6 |
| Mining | 22 | 9 | 3.5 | 1.4 | 3.7 | 1.6 | 2.2 | - |
| Construction | 548 | 515 | 7.7 | 7.2 | 8.0 | 7.3 | 5.4 | 5.9 |
| Manufacturing | 905 | 756 | 4.3 | 3.6 | 3.6 | 3.0 | 5.6 | 4.9 |
| Durable goods | 446 | 371 | 3.6 | 3.0 | 3.3 | 2.5 | 4.3 | 4.1 |
| Lumber and wood products | 47 | 42 | 5.7 | 5.2 | 5.7 | 5.8 | 5.4 | 2.8 |
| Furniture and fixtures.. | 21 | 23 | 3.0 | 3.5 | 2.2 | 3.9 | 5.0 | 2.5 |
| Stone, clay, and glass products | 16 | 10 | 2.6 | 1.7 | 3.0 | 1.7 | 1.4 | 1.9 |
| Primary metal industries .. | 42 | 27 | 5.6 | 3.3 | 5.1 | 3.3 | 8.2 | 3.0 |
| Fabricated metal products | 37 | 51 | 2.8 | 3.8 | 2.8 | 3.8 | 2.7 | 3.7 |
| Machinery and computing equipment | 91 | 62 | 3.6 | 2.5 | 3.5 | 1.9 | 3.7 | 4.0 |
| Electrical machinery, equipment, and supplies ................................. | 45 | 54 | 2.4 | 2.8 | 2.0 | 1.8 | 3.0 | 4.4 |
| Transportation equipment . | 70 | 54 | 2.9 | 2.2 | 2.7 | 1.8 | 3.6 | 3.5 |
| Automobiles ........ | 39 | 26 | 2.8 | 1.9 | 2.9 | 1.7 | 2.6 | 2.8 |
| Other transportation equipment | 32 | 28 | 3.0 | 2.6 | 2.4 | 2.0 | 5.1 | 4.3 |
| Prolessional and photographic equipment | 20 | 13 | 2.7 | 1.7 | 3.1 | 1.3 | 2.1 | 2.2 |
| Other durable goods industries ..................................................... | 57 | 35 | 8.2 | 5.4 | 4.8 | 1.2 | 12.8 | 11.3 |
| Nondurable goods | 459 | 385 | 5.3 | 4.6 | 4.3 | 3.8 | 6.9 | 5.8 |
| Food and kindred products | 139 | 107 | 8.1 | 6.2 | 6.3 | 5.7 | 11.4 | 7.1 |
| Textile mill products .......... | 27 | 17 | 4.2 | 3.1 | 3.6 | 3.0 | 4.9 | 3.3 |
| Apparel and other textile products | 83 | 69 | 8.1 | 8.3 | 2.8 | 7.4 | 10.3 | 8.7 |
| Paper and allied products | 36 | 29 | 5.0 | 3.9 | 5.5 | 3.9 | 3.2 | 3.9 |
| Printing and publishing ........ | 59 | 73 | 3.2 | 4.0 | 2.9 | 3.5 | 3.7 | 4.5 |
| Chemicals and allied products ...... | 62 | 41 | 4.4 | 3.1 | 4.0 | 2.0 | 5.2 | 5.5 |
| Rubber and misceilaneous plastics products | 35 | 22 | 3.8 | 2.3 | 3.2 | 1.3 | 5.2 | 4.4 |
| Other nondurable goods industries ................................................ | 18 | 26 | 4.6 | 7.6 | 4.6 | 6.8 | 4.6 | 9.4 |
| Transportation and public utilities ...................................................... | 239 | 199 | 3.2 | 2.7 | 3.0 | 2.7 | 3.6 | 2.6 |
| Transportation .............................................................................. | 180 | 155 | 3.9 | 3.4 | 3.7 | 3.6 | 4.2 | 2.7 |
| Communications and other public utilities .......................................... | 59 | 44 | 2.1 | 1.5 | 1.7 | 1.0 | 2.8 | 2.5 |
| Wholesale and retail trade ................................................................. | 1,620 | 1,372 | 6.1 | 5.1 | 5.0 | 4.3 | 7.2 | 6.0 |
| Wholesale trade ............................................................................. | 152 | 183 | 3.2 | 3.9 | 2.3 | 3.1 | 5.0 | 5.7 |
| Retail trade ................................................................................... | 1,468 | 1,189 | 6.7 | 5.4 | 5.8 | 4.7 | 7.5 | 6.0 |
| Finance, insurance, and real estate .................................................... | 245 | 164 | 3.2 | 2.1 | 3.4 | 2.1 | 3.1 | 2.1 |
| Service industries | 1,496 | 1,589 | 4.5 | 4.6 | 4.9 | 5.0 | 4.3 | 4.4 |
| Professional services ...................................................................... | 581 | 560 | 3.0 | 2.7 | 2.9 | 2.3 | 3.0 | 2.9 |
| Other service industries | 915 | 1,029 | 6.9 | 7.4 | 6.5 | 7.3 | 7.3 | 7.6 |
| Agricultural wage and salary workers .................................................... | 118 | 120 | 5.3 | 5.5 | 4.2 | 5.3 | 9.0 | 6.0 |
| Government, self-employed, and unpaid family workers .......................... | 637 | 553 | 2.2 | 1.9 | 2.0 | 1.9 | 2.3 | 1.9 |
| No previous work experience ............................................................. | 569 | 486 | - | - | - | - | - | - |

NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

A-31. Unemployed persons by reason for unemployment, sex, age, and race
(Numbers in thousands)

| Reason | Total, 16 years and over |  | Men, 20 years and over |  | Women, 20 years and over |  | Both sexes, 16 to 19 years |  | White |  | Black |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | May $1998$ | May <br> 1997 | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ |
| NUMBER OF UNEMPLOYED |  |  |  |  |  |  |  |  |  |  |  |  |
| Total unemployed | 6,398 | 5,764 | 2,582 | 2,339 | 2,520 | 2,218 | 1,296 | 1,207 | 4,481 | 4,134 | 1,545 | 1,373 |
| Job losers and persons who completed temporary jobs ......... | 2,696 | 2,517 | 1,523 | 1,382 | 1,024 | 985 | 148 | 149 | 1,953 | 1,853 | 603 | 569 |
| On temporary layoff ........................................................ | 704 | 608 | 448 | 340 | 211 | 217 | 45 | 51 | 574 | 507 | 107 | 81 |
| Not on temporary layoff | 1,992 | 1,908 | 1,076 | 1,042 | 813 | 769 | 104 | 98 | 1,379 | 1,346 | 497 | 488 |
| Permanent job losers ..................................................... | 1,391 | 1,357 | 755 | 738 | 582 | 553 | 54 | 66 | 964 | 953 | 329 | 351 |
| Persons who completed temporary jobs ........................... | 602 | 551 | 321 | 304 | 231 | 215 | 50 | 32 | 416 | 393 | 168 | 137 |
| Job leavers ..................................................................... | 721 | 664 | 332 | 358 | 312 | 234 | 77 | 72 | 574 | 517 | 122 | 115 |
| Reentrants ..................................................................... | 2,412 | 2,098 | 670 | 550 | 1,057 | 925 | 685 | 623 | 1,589 | 1,430 | 663 | 570 |
| New entrants .................................................................. | 569 | 486 | 57 | 49 | 127 | 74 | 385 | 364 | 365 | 333 | 157 | 119 |
| PERCENT DISTRIBUTION |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers and persons who completed temporary jobs ........ | 42.1 | 43.7 | 59.0 | 59.1 | 40.7 | 44.4 | 11.4 | 12.3 | 43.6 | 44.8 | 39.0 | 41.5 |
| On temporary layoff ....................................................... | 11.0 | 10.5 | 17.3 | 14.6 | 8.4 | 9.8 | 3.5 | 4.2 | 12.8 | 12.3 | 6.9 | 5.9 |
| Not on temporary layoff .................................................. | 31.1 | 33.1 | 41.7 | 44.5 | 32.3 | 34.7 | 8.0 | 8.1 | 30.8 | 32.6 | 32.1 | 35.5 |
| Job leavers .................................................................... | 11.3 | 11.5 | 12.9 | 15.3 | 12.4 | 10.6 | 6.0 | 6.0 | 12.8 | 12.5 | 7.9 | 8.3 |
| Reentrants | 37.7 | 36.4 | 25.9 | 23.5 | 42.0 | 41.7 | 52.9 | 51.6 | 35.5 | 34.6 | 42.9 | 41.5 |
| New entrants .................................................................. | 8.9 | 8.4 | 2.2 | 2.1 | 5.0 | 3.3 | 29.7 | 30.1 | 8.2 | 8.1 | 10.1 | 8.7 |
| UNEMPLOYED AS A PERCENT OF THE CIVILIAN LABOR FORCE |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers and persons who completed temporary jobs ........ | 2.0 | 1.8 | 2.2 | 2.0 | 1.7 | 1.7 | 1.9 | 1.9 | 1.7 | 1.6 | 3.9 | 3.6 |
| Job leavers .................................................................. | . 5 | . 5 | . 5 | . 5 | . 5 | . 4 | 1.0 | . 9 | . 5 | 4 | . 8 | . 7 |
| Reentrants ..................................................................... | 1.8 | 1.5 | 1.0 | . 8 | 1.8 | 1.6 | 8.7 | 7.7 | 1.4 | 1.2 | 4.3 | 3.6 |
| New entrants ................................................................. | . 4 | . 4 | . 1 | . 1 | . 2 | . 1 | 4.9 | 4.5 | . 3 | . 3 | 1.0 | . 8 |

[^13]procedures and revised population controls used in the household survey.

A-32. Unemployed persons by reason for unemployment, sex, age, and duration of unemployment
(Percent distribution)

| Reason, sex, and age | May 1998 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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 | 5,764 | 100.0 | 45.7 | 27.7 | 26.6 | 12.6 | 14.0 |
| Job losers and persons who completed temporary jobs .............. | 2,517 | 100.0 | 41.8 | 30.0 | 28.2 | 15.5 | 12.8 |
| On temporary layoff ............................................................. | 608 | 100.0 | 61.9 | 24.7 | 13.4 | 7.6 | 5.7 |
| Not on temporary layoff ....................................................... | 1,908 | 100.0 | 35.4 | 31.6 | 33.0 | 18.0 | 15.0 |
| Permanent job losers .. | 1,357 | 100.0 | 32.4 | 32.8 | 34.7 | 18.5 | 16.2 |
| Persons who completed temporary jobs ............................... | 551 | 100.0 | 42.7 | 28.7 | 28.6 | 16.6 | 12.0 |
| Job leavers .......................................................................... | 664 | 100.0 | 53.7 | 27.6 | 18.7 | 9.1 | 9.6 |
| Reentrants . | 2,098 | 100.0 | 47.2 | 24.7 | 28.1 | 11.5 | 16.6 |
| New entrants ...................................................................... | 486 | 100.0 | 48.7 | 28.9 | 22.4 | 6.9 | 15.5 |
| Men, 20 years and over ..................................................... | 2,339 | 100.0 | 40.8 | 26.8 | 32.4 | 14.9 | 17.5 |
| Job losers and persons who completed temporary jobs ............... | 1,382 | 100.0 | 38.9 | 29.7 | 31.4 | 16.9 | 14.5 |
| On temporary layoff ............................................................. | 340 | 100.0 | 55.7 | 29.8 | 14.5 | 6.2 | 8.3 |
| Not on temporary layoff ....................................................... | 1,042 | 100.0 | 33.4 | 29.6 | 37.0 | 20.4 | 16.6 |
| Permanent job losers ......................................................... | 738 | 100.0 | 30.5 | 30.9 | 38.5 | 20.5 | 18.0 |
| Persons who completed temporary jobs ............................... | 304 | 100.0 | 40.5 | 26.4 | 33.1 | 20.2 | 12.9 |
| Job leavers .......................................................................... | 358 | 100.0 | 49.8 | 25.8 | 24.4 | 10.8 | 13.6 |
| Reentrants | 550 | 100.0 | 41.1 | (1) ${ }^{21.0}$ | (1) | ${ }_{(1)}^{13.5}$ | ${ }^{24.4}$ |
| New entrants ...................................................................... | 49 | 100.0 | ( ${ }^{1}$ ) | $\left({ }^{1}\right)$ | (1) | $\left({ }^{1}\right)$ | $\left({ }^{1}\right)$ |
| Women, 20 years and over ................................................. | 2,218 | 100.0 | 42.9 | 29.8 | 27.3 | 13.6 | 13.7 |
| Job losers and persons who completed temporary jobs .............. | 985 | 100.0 | 42.5 | 30.9 | 26.7 | 15.1 | 11.6 |
| On temporary layoff ............................................................. | 217 | 100.0 | 64.4 | 20.8 | 14.8 | 11.7 | 3.1 |
| Not on temporary layoff ........................................................ | 769 | 100.0 | 36.3 | 33.7 | 30.0 | 16.1 | 13.9 |
| Permanent job losers ........................................................ | 553 | 100.0 | 32.4 | 34.5 | 33.1 | 18.0 | 15.1 |
| Persons who completed temporary jobs ............................... | 215 | 100.0 | 46.2 | 31.7 | 22.1 | 11.2 | 10.9 |
| Job leavers | 234 | 100.0 | 53.4 | 32.4 | 14.2 | 9.2 | 5.0 |
| Reentrants ......................................................................... | 925 | 100.0 | 40.4 | 27.8 | 31.8 | ${ }^{14.0}$ | ${ }^{17.8}$ |
| New entrants ...................................................................... | 74 | 100.0 | (1) | $\left({ }^{1}\right)$ | $\left({ }^{1}\right)$ | $\left({ }^{1}\right)$ | $\left(^{1}\right)$ |
| Both sexes, 16 to 19 years .................................................. | 1,207 | 100.0 | 60.3 | 25.6 | 14.1 | 6.1 | 7.9 |
| Job losers and persons who completed temporary jobs .............. | 149 | 100.0 | 64.1 | 26.7 | 9.1 | 4.9 | 4.3 |
| On temporary layoff ................................................................ | 51 | 100.0 | $\left({ }^{1}\right)$ | (1) | ( ${ }^{1}$ ) | $\left({ }^{1}\right)$ | ( ${ }^{4}$ ) |
| Not on temporary layoff ...................................................... | 98 | 100.0 | 49.1 | 37.0 | 13.9 | 7.4 | 6.5 |
| Permanent job losers ......................................................... | 66 | 100.0 | $\binom{1}{1}$ | $\left(\begin{array}{l}1 \\ 1\end{array}\right.$ | $\binom{1}{1}$ | $\binom{1}{1}$ | $\binom{1}{1}$ |
| Persons who completed temporary jobs ............................... | 32 | 100.0 | $\binom{1}{1}$ | $\binom{1}{1}$ | $\binom{1}{1}$ | $\binom{1}{1}$ | $\binom{1}{1}$ |
| Job leavers | 72 | 100.0 | (1) | (1) | (1) | (1) | (1) |
| Reentrants .......................................................................... | 623 | 100.0 | 62.5 | 23.4 | 14.1 | 6.1 | 8.0 |
| New entrants .................................................................... | 364 | 100.0 | 52.4 | 29.7 | 17.9 | 8.0 | 9.9 |

1 Data not shown where base is less than 75,000
NOTE: Beginning in January 1998, data reflect new composite estimation
procedures and revised population controls used in the household survey.

A-33. Unemployed total and full-time workers by duration of unemployment

| Duration of unemployment | Total |  |  |  | Full-time workers |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands of persons |  | Percent distribution |  | Thousands of persons |  | Percent distribution |  |
|  | May <br> 1997 | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | May 1997 | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ |
| Total, 16 years and over ................................. | 6,398 | 5,764 | 100.0 | 100.0 | 5,213 | 4,715 | 100.0 | 100.0 |
| Less than 5 weeks .......................................... | 2,535 | 2,634 | 39.6 | 45.7 | 1,985 | 2,042 | 38.1 | 43.3 |
| 5 to 14 weeks ................................................ | 1,691 | 1,597 | 26.4 | 27.7 | 1,319 | 1,297 | 25.3 | 27.5 |
| 5 to 10 weeks .............................................. | 1,236 | 1,122 | 19.3 | 19.5 | 927 | 905 | 17.8 | 19.2 |
| 11 to 14 weeks ............................................ | 455 | 475 | 7.1 | 8.2 | 392 | 392 | 7.5 | 8.3 |
| 15 weeks and over .......................................... | 2,172 | 1,534 | 33.9 | 26.6 | 1,909 | 1,376 | 36.6 | 29.2 |
| 15 to 26 weeks ............................................. | 1,144 | 724 | 17.9 | 12.6 | 992 | 657 | 19.0 | 13.9 |
| 27 weeks and over ....................................... | 1,028 | 809 | 16.1 | 14.0 | 917 | 719 | 17.6 | 15.3 |
| 27 to 51 weeks ........................................... | 466 | 286 | 7.3 | 5.0 | 407 | 250 | 7.8 | 5.3 |
| 52 weeks and over ..................................... | 562 | 523 | 8.8 | 9.1 | 511 | 469 | 9.8 | 9.9 |
| Average (mean) duration, in weeks .................... | 15.7 | 15.0 | - | - | 16.7 | 15.9 | - | - |
| Median duration, in weeks ................................ | 7.8 | 5.9 | - | - | 8.7 | 6.6 | - | - |

NOTE: Beginning in January 1998, data reflect new composite estimation

A-34. Unemployed persons by age, sex, race, marital status, and duration of unemployment

| Sex, age, race, and marital status | May 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands of persons |  |  |  |  |  | Weeks |  |
|  | Total | Less than 5 weeks | 5 to 14 weeks | 15 weeks and over |  |  | Average (mean) duration | Median duration |
|  |  |  |  | Total | 15 to 26 weeks | 27 weeks and over |  |  |
| TOTAL |  |  |  |  |  |  |  |  |
| Total, 16 years and over ..................................... | 5,764 | 2,634 | 1,597 | 1,534 | 724 | 809 | 15.0 | 5.9 |
| 16 to 19 years.......... | 1,207 | 729 | 309 | 170 | 74 | 96 | 9.3 | 3.6 |
| 20 to 24 years.. | 1,047 | 553 | 298 | 195 | 101 | 94 | 11.9 | 4.2 |
| 25 to 34 years... | 1,287 | 569 | 369 | 350 | 187 | 162 | 13.8 | 7.1 |
| 35 to 44 years... | 1,170 | 453 | 344 | 373 | 179 | 194 | 16.6 | 7.8 |
| 45 to 54 years ... | 651 | 194 | 178 | 279 | 125 | 155 | 23.3 | 10.4 |
| 55 to 64 years ....................................................... | 295 | 86 | 78 | 131 | 51 | 79 | 26.5 | 11.0 |
| 65 years and over ................................................ | 108 | 50 | 21 | 36 | 7 | 29 | 22.4 | 6.0 |
| Men, 16 years and over ....................................... | 2,997 | 1,340 | 816 | 841 | 382 | 460 | 15.7 | 6.3 |
| 16 to 19 years .... | 658 | 386 | 188 | 84 | 34 | 50 | 8.7 | 3.8 |
| 20 to 24 years ...................................................... | 584 | 296 | 165 | 123 | 58 | 66 | 14.2 | 4.4 |
| 25 to 34 years ....................................................... | 586 | 270 | 144 | 172 | 88 | 83 | 14.2 | 6.9 |
| 35 to 44 years... | 559 | 215 | 163 | 181 | 76 | 104 | 18.3 | 8.0 |
| 45 to 54 years ....................................................... | 387 | 102 | 92 | 193 | 94 | 99 | 24.0 | 14.4 |
| 55 to 64 years | 164 | 49 | 47 | 68 | 30 | 38 | 22.8 | 10.7 |
| 65 years and over ................................................. | 59 | 23 | 16 | 21 | 3 | 18 | $\left({ }^{1}\right)$ | ( ${ }^{1}$ ) |
| Women, 16 years and over ................................. | 2,767 | 1,294 | 781 | 692 | 343 | 349 | 14.2 | 5.4 |
| 16 to 19 years ...................................................... | 550 | 343 | 121 | 86 | 41 | 45 | 10.0 | 3.2 |
| 20 to 24 years | 463 | 257 | 133 | 72 | 44 | 28 | 9.1 | 3.9 |
| 25 to 34 years | 701 | 298 | 224 | 178 | 99 | 79 | 13.5 | 7.2 |
| 35 to 44 years ....................................................... | 611 | 238 | 181 | 192 | 103 | 90 | 15.1 | 7.7 |
| 45 to 54 years | 264 | 92 | 86 | 86 | 31 | 56 | 22.4 | 8.3 |
| 55 to 64 years | 131 | 38 | 31 | 62 | 21 | 41 | 31.1 | 12.1 |
| 65 years and over ................................................. | 48 | 27 | 6 | 15 | 4 | 11 | $\left({ }^{1}\right)$ | $\left({ }^{1}\right)$ |
| Race |  |  |  |  |  |  |  |  |
| White, 16 years and over ..................................... | 4,134 | 2,082 | 1,074 | 977 | 482 | 495 | 13.1 | 4.5 |
| Men. | 2,248 | 1,093 | 566 | 589 | 265 | 324 | 14.2 | 4.9 |
| Women ..... | 1,886 | 990 | 508 | 388 | 217 | 171 | 11.8 | 4.3 |
| Black, 16 years and over ..................................... | 1,373 | 457 | 445 | 471 | 212 | 259 | 19.8 | 9.2 |
| Men .................................................................... | 590 | 197 | 202 | 191 | 100 | 91 | 18.9 | 9.0 |
| Women | 783 | 260 | 243 | 280 | 112 | 168 | 20.5 | 9.4 |
| Marital status |  |  |  |  |  |  |  |  |
| Men, 16 years and over: |  |  |  |  |  |  |  |  |
| Married, spouse present ......................................... | 946 | 333 | 282 | 331 | 141 | 190 | 20.0 | 8.9 |
| Widowed, divorced, or separated | 404 | 165 | 85 | 155 | 65 | 90 | 20.1 | 7.7 |
| Single (never married) ............................................ | 1,647 | 842 | 448 | 356 | 176 | 180 | 12.1 | 4.4 |
| Women, 16 years and over: |  |  |  |  |  |  |  |  |
| Married, spouse present ......................................... | 835 | 384 | 238 | 213 | 114 | 99 | 14.3 | 5.6 |
| Widowed, divorced, or separated ............................ | 546 | 206 | 178 | 163 | 72 | 90 | 18.2 | 8.0 |
| Single (never married) ............................................ | 1,386 | 705 | 365 | 316 | 156 | 160 | 12.6 | 4.4 |

${ }^{1}$ Data not shown where base is less than 75,000
NOTE: Beginning in January 1998, data reflects new composite estimation

A-35. Unemployed persons by occupation, industry, and duration of unemployment

| Occupation and industry | May 1998 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Thousands of persons |  |  |  |  |  | Weeks |  |
|  | Total | Less <br> 5 weeks | 5 to 14 weeks | 15 weeks and over |  |  | Average (mean) duration | Median duration |
|  |  |  |  | Total | 15 to 26 weeks | 27 weeks and over |  |  |
| OCCUPATION |  |  |  |  |  |  |  |  |
| Managerial and professional specialty ................................... | 622 | 293 | 123 | 206 | 97 | 108 | 17.1 | 5.8 |
| Technical, sales, and administrative support ............................ | 1,566 | 733 | 439 | 394 | 191 | 203 | 14.2 | 5.4 |
| Service occupations ........................................................... | 1,082 | 474 | 339 | 269 | 124 | 145 | 14.6 | 6.0 |
| Precision production, craft, and repair ..................................... | 615 | 292 | 155 | 168 | 90 | 78 | 14.4 | 5.6 |
| Operators, fabricators, and laborers ....................................... | 1,170 | 494 | 349 | 327 | 156 | 172 | 15.4 | 7.1 |
| Farming, forestry, and fishing .................................................. | 190 | 101 | 43 | 47 | 28 | 19 | 12.3 | 4.1 |
| INDUSTRY ${ }^{\text {P }}$ |  |  |  |  |  |  |  |  |
| Agriculture ......................................................................... | 120 | 56 | 34 | 30 | 22 | 8 | 10.9 | 5.8 |
| Construction | 524 | 235 | 128 | 161 | 79 | 82 | 16.0 | 6.1 |
| Manufacturing .................................................................... | 756 | 281 | 250 | 225 | 99 | 126 | 15.5 | 8.1 |
| Durable goods .................................................................. | 371 | 127 | 130 | 114 | 51 | 64 | 16.9 | 8.6 |
| Nondurable goods | 385 | 154 | 120 | 111 | 49 | 62 | 14.1 | 7.6 |
| Transportation and public utilities ........................................... | 692 | 102 | 69 | 68 | 26 | 42 | 17.1 | 6.2 |
| Wholesale and retail trade .................................................... | 4,174 | 632 | 421 | 329 | 166 | 163 | 13.3 | 5.6 |
| Finance, insurance, and real estate ....................................... | 522 | 69 | 50 | 54 | 23 | 30 | 17.4 | 8.0 |
| Services ........ | 3,371 | 892 | 449 | 442 | 227 | 215 | 14.4 | 4.5 |
| Public administration ........................................................... | 261 | 30 | 11 | 45 | 11 | 34 | 28.2 | 15.8 |
| No previous work experience ................................................ | 486 | 237 | 140 | 109 | 34 | 75 | 15.8 | 4.8 |

1 Includes wage and salary workers only.
procedures and revised population controls used in the household survey.
NOTE: Beginning in January 1998, data reflect new composite estimation

## A-36. Persons not in the labor force by desire and availability for work, age, and sex

(In thousands)

| Category | Total |  | Age |  |  |  |  |  | Sex |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | 16 to 24 years |  | 25 to 54 years |  | 55 years and over |  | Men |  | Women |  |
|  |  |  | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ | May <br> 1997 | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | May <br> 1997 | May <br> 1998 | May <br> 1997 | May $1998$ |
| Total not in the labor force | 66,870 | 67,659 | 11,289 | 11,522 | 18,900 | 18,913 | 36,682 | 37,223 | 24,368 | 24,738 | 42,502 | 42,921 |
| Do not want a job now ${ }^{1}$ | 60,969 | 62,346 | 8,513 | 8,974 | 16,559 | 16,819 | 35,897 | 36,553 | 21,880 | 22,501 | 39,089 | 39,845 |
| Want a job ${ }^{1}$................ | 5,901 | 5,313 | 2,775 | 2,548 | 2,340 | 2,095 | 785 | 671 | 2,488 | 2,237 | 3,412 | 3,076 |
| Did not search for work in previous year ....................... | 3,384 | 3,080 | 1,526 | 1,365 | 1,249 | 1,232 | 610 | 482 | 1,403 | 1,241 | 1,981 | 1,839 |
| Searched for work in previous year ${ }^{2}$............................. | 2,516 | 2,234 | 1,249 | 1,183 | 1,092 | 863 | 175 | 189 | 1,085 | 997 | 1,431 | 1,237 |
| Not available to work now ............. | 1,085 | 1,021 | 742 | 699 | 307 | 290 | 36 | 31 | 446 | 427 | 639 | 593 |
| Available to work now ............................................... | 1,431 | 1,213 | 507 | 483 | 785 | 572 | 139 | 157 | 639 | 570 | 792 | 644 |
| Reason not currently looking: Discouragement over job prospects ${ }^{3}$....................... | 338 | 268 | 104 | 88 | 194 | 129 | 39 | 50 | 198 | 161 | 140 | 106 |
| Reasons other than discouragement ....................... | 1,093 | 946 | 403 | 395 | 591 | 443 | 100 | 108 | 441 | 408 | 652 | 537 |
| Family responsibilities ......................................... | 140 | 166 | 18 | 58 | 117 | 99 | 5 | 9 | 19 | 24 | 121 | 141 |
| In school or training ............................................ | 280 | 234 | 225 | 201 | 55 | 29 | - | - | 125 | 129 | 155 | 105 |
| III health or disability ........................................... | 94 | 111 | 10 | 19 | 75 | 70 | 8 | 22 | 47 | 55 | 47 | 56 |
| Other ${ }^{4}$.............................................................. | 579 | 435 | 149 | 117 | 344 | 244 | 86 | 74 | 249 | 200 | 330 | 235 |

[^14][^15]HOUSEHOLD DATA
NOT SEASONALLY ADJUSTED

## A-37. Multiple jobholders by selected demographic and economic characteristics

(Numbers in thousands)

| Characteristic | Both sexes |  |  |  | Men |  |  |  | Women |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number |  | Rate ${ }^{1}$ |  | Number |  | Rate ${ }^{1}$ |  | Number |  | Rate ${ }^{1}$ |  |
|  | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | May 1998 | May $1997$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | May $1997$ | May <br> 1998 | May $1997$ | May $1998$ | May <br> 1997 | May <br> 1998 |
| AGE |  |  |  |  |  |  |  |  |  |  |  |  |
| Total, 16 years and over ${ }^{2}$.......................................... | 8,197 | 8,126 | 6.3 | 6.2 | 4,398 | 4,438 | 6.3 | 6.3 | 3,800 | 3,688 | 6.4 | 6.1 |
| 16 to 19 years ............................................................. | 311 | 317 | 4.8 | 4.6 | 137 | 137 | 4.0 | 4.0 | 174 | 181 | 5.6 | 5.3 |
| 20 years and over ........................................................ | 7,887 | 7,809 | 6.4 | 6.3 | 4,261 | 4,302 | 6.4 | 6.4 | 3,626 | 3,507 | 6.4 | 6.1 |
| 20 to 24 years | 890 | 799 | 7.2 | 6.4 | 475 | 390 | 7.1 | 5.9 | 414 | 409 | 7.2 | 6.9 |
| 25 years and over ........................................................ | 6,997 | 7,009 | 6.3 | 6.3 | 3,786 | 3,911 | 6.3 | 6.4 | 3,211 | 3,098 | 6.3 | 6.0 |
| 25 to 54 years ............................................................ | 6,213 | 6,229 | 6.6 | 6.5 | 3,338 | 3,460 | 6.6 | 6.7 | 2,875 | 2,770 | 6.6 | 6.3 |
| 55 years and over | 784 | 780 | 4.9 | 4.7 | 447 | 452 | 4.9 | 4.9 | 336 | 328 | 4.8 | 4.5 |
| 55 to 64 years ........................................................... | 653 | 660 | 5.3 | 5.1 | 354 | 379 | 5.2 | 5.3 | 299 | 281 | 5.4 | 4.9 |
| 65 years and over ..................................................... | 131 | 119 | 3.4 | 3.1 | 94 | 72 | 4.1 | 3.3 | 37 | 47 | 2.3 | 3.0 |
| RACE AND HISPANIC ORIGIN |  |  |  |  |  |  |  |  |  |  |  |  |
| White | 7,139 | 7,019 | 6.5 | 6.3 | 3,841 | 3,853 | 6.4 | 6.3 | 3,298 | 3,166 | 6.6 | 6.3 |
| Black | 789 | 792 | 5.7 | 5.5 | 411 | 436 | 6.3 | 6.4 | 378 | 356 | 5.2 | 4.7 |
| Hispanic origin ............................................................ | 518 | 596 | 4.1 | 4.4 | 300 | 357 | 3.9 | 4.4 | 218 | 239 | 4.4 | 4.5 |
| MARITAL STATUS |  |  |  |  |  |  |  |  |  |  |  |  |
| Married, spouse present ................................................. | 4,498 | 4,649 | 6.0 | 6.2 | 2,694 | 2,885 | 6.3 | 6.8 | 1,804 | 1,765 | 5.5 | 5.4 |
| Widowed, divorced, or separated .................................... | 1,438 | 1,412 | 6.9 | 6.7 | 524 | 528 | 6.1 | 5.8 | 914 | 885 | 7.6 | 7.3 |
| Single (never married) ................................................... | 2,262 | 2,064 | 6.7 | 5.9 | 1,179 | 1,026 | 6.3 | 5.3 | 1,082 | 1,038 | 7.2 | 6.6 |
| FULL- OR PART-TIME STATUS |  |  |  |  |  |  |  |  |  |  |  |  |
| Primary job full time, secondary job part time ..................... | 4,594 | 4,660 | - | - | 2,773 | 2,811 | - | - | 1,820 | 1,849 | - | - |
| Primary and secondary jobs both part time ........................ | 1,713 | 1,571 | - | - | 546 | 496 | - | - | 1,167 | 1,075 | - | - |
| Primary and secondary jobs both full time ......................... | 262 | 265 | - | - | 190 | 206 | - | - | 73 | 59 | - | - |
| Hours vary on primary or secondary job ............................ | 1,608 | 1,606 | - | - | 875 | 912 | - | - | 733 | 694 | - | - |

${ }^{1}$ Multiple jobholders as a percent of all employed persons in specified group.

2 Includes a small number of persons who work part time on their primary job and full time on their secondary jobs(s), not shown separately.

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. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

## A-38. Employment status of male Vietnam-era veterans and nonveterans by age

(Numbers in thousands)

| Veteran status and age | Civilian noninstitutional population |  | Civilian labor force |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May$1997$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | Total |  | Employed |  | Unemployed |  |  |  |
|  |  |  | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1997 \end{gathered}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | Number |  | Percent of labor force |  |
|  |  |  |  |  |  |  | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { May } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 \end{gathered}$ |
| VIETNAM-ERA VETERANS |  |  |  |  |  |  |  |  |  |  |
| Total, 40 years and over ................................ | 7,803 | 7,812 | 6,688 | 6,571 | 6,472 | 6,391 | 215 | 180 | 3.2 | 2.7 |
| 40 to 54 years .......................................... | 6,336 | 6,002 | 5,731 | 5,365 | 5,547 | 5,211 | 184 | 154 | 3.2 | 2.9 |
| 40 to 44 years ....................................... | 1,059 | 788 | 930 | 713 | 902 | 670 | 28 | 42 | 3.1 | 5.9 |
| 45 to 49 years ....................................... | 2,751 | 2,292 | 2,513 | 2,051 | 2,442 | 2,016 | 71 | 35 | 2.8 | 1.7 |
| 50 to 54 years ....................................... | 2,526 | 2,922 | 2,288 | 2,602 | 2,204 | 2,525 | 84 | 77 | 3.7 | 3.0 |
| 55 years and over .................................... | 1,467 | 1,810 | 957 | 1,206 | 925 | 1,180 | 32 | 26 | 3.3 | 2.1 |
| NONVETERANS |  |  |  |  |  |  |  |  |  |  |
| Total, 40 to 54 years ................................... | 19,340 | 20,299 | 17,516 | 18,379 | 17,006 | 17,900 | 510 | 480 | 2.9 | 2.6 |
| 40 to 44 years ........................................... | 8,903 | 9,208 | 8,202 | 8,488 | 7,952 | 8,274 | 251 | 214 | 3.1 | 2.5 |
| 45 to 49 years .......................................... | 6,118 | 6,721 | 5,564 | 6,115 | 5,405 | 5,950 | 159 | 166 | 2.9 | 2.7 |
| 50 to 54 years .......................................... | 4,320 | 4,370 | 3,750 | 3,776 | 3,649 | 3,676 | 101 | 100 | 2.7 | 2.7 |

NOTE: Male Vietnam-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. Beginning in January 1998, data reflect new composite estimation procedures and revised population controls
used in the household survey. Population and labor force levels for nonveterans from August 1995 to February 1998 are slightly overstated because they incorporate incorrect weighting procedures. Corrections will be made as soon as the necessary microdata files become available.

## B-1. Employees on nonfarm payrolls by major industry, 1947 to date

(In thousands)

| Year and month | Total | Total private | Goods-producing |  |  |  | Service-producing |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  | Transpor- |  |  | Finance, |  |  | vernmen |  |
|  |  |  | Total | Mining | Construction | Manutacturing | Total | and utilities | trade | Retail trado | and real estate | Services | Federal | State | Local |
| $\begin{aligned} & 1947 \ldots \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~ \\ & 1948 \end{aligned}$ | Annual averages |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{aligned} & 43,857 \\ & 4,866 \\ & 43,754 \end{aligned}$ | $\begin{aligned} & 38,382 \\ & 39,216 \\ & 37,897 \end{aligned}$ | $\begin{aligned} & 18,509 \\ & 18,774 \end{aligned}$ | $\begin{aligned} & 955 \\ & 994 \end{aligned}$ | $\begin{aligned} & 2,009 \\ & 2,198 \end{aligned}$ | $\begin{aligned} & 15,545 \\ & 15,582 \end{aligned}$ | $\begin{aligned} & 25,348 \\ & 26,092 \end{aligned}$ | $\begin{aligned} & 4,166 \\ & 4,189 \end{aligned}$ | $\begin{array}{r} 2,478 \\ 2,612 \end{array}$ | $\begin{aligned} & 6,477 \\ & 6,659 \end{aligned}$ | $\begin{aligned} & 1,728 \\ & 1,800 \end{aligned}$ | $\begin{aligned} & 5,025 \\ & 5,181 \end{aligned}$ | $\begin{aligned} & 1,892 \\ & 1,863 \end{aligned}$ | (1) | (1) |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 17,565 | 930 | 2,194 | 14,441 | 26,189 | 4,001 | 2,610 | 6,654 | 1,828 | 5,239 | 1,908 | (1) | (1) |
| 1950 | 45,197 | 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 | 47,819 | 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 | 48,793 | 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 | (1) | (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) | (1) |
| 1955 | 50,641 | 43,727 | 20,513 | 792 | 2,839 | 16,882 | 30,128 | 4.141 | 2,934 | 7,601 | 2,298 | 6,240 | 2,187 | 1,168 | 3,558 |
| 1956 | 52,369 | 45,091 | 21,104 | 822 | 3,039 | 17,243 | 31,264 | 4,244 | 3,027 | 7,831 | 2,389 | 6,497 | 2,209 | 1,250 | 3,819 |
| 1957 | 52,855 | 45,239 | 20,967 | 828 | 2,962 | 17,176 | 31,889 | 4,241 | 3,037 | 7,848 | 2,438 | 6,708 | 2,217 | 1,328 | 4,071 |
| 1958 | 51,322 | 43,483 | 19,513 | 751 | 2,817 | 15,945 | 31.811 | 3,976 | 2,989 | 7,761 | 2,481 | 6,765 | 2,191 | 1,415 | 4,230 |
| 19592 | 53,270 | 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 | 46,660 | 20,451 | 650 | 2,948 | 16,853 | 35,098 | 3,906 | 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 | 60,763 | 50,689 | 21,926 | 632 | 3,232 | 18,062 | 38,839 | 4,036 | 3,477 | 9,239 | 2,977 | 9,036 | 2,378 | 1,996 | 5,700 |
| 1966 | 63,901 | 53,116 | 23,158 | 627 | 3,317 | 19,214 | 40,743 | 4,158 | 3,608 | 9,637 | 3,059 | 9,498 | 2,564 | 2,141 | 6.080 |
| 1967 | 65,803 | 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 | 67,897 | 56,058 | 23,737 | 606 | 3,350 | 19,781 | 44,158 | 4,318 | 3,791 | 10,308 | 3,337 | 10,567 | 2,737 | 2,442 | 6,660 |
| 1969 | 70,384 | 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 | 6,904 |
| 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 | 71,211 | 58,331 | 22,935 | 609 | 3,704 | 18,623 | 48,276 | 4,476 | 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 | 2,684 | 2,859 | 7,790 |
| 1973. | 76,790 | 63,058 | 24,893 | 642 | 4,097 | 20,154 | 51,897 | 4,656 | 4,291 | 12,315 | 4,046 | 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 | 4,148 | 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 | 12,630 | 4,165 | 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 | 19,882 | 58,125 | 4,713 | 4,723 | 13,792 | 4,467 | 15,302 | 2,727 | 3,377 | 9,023 |
| 1978 | 86,697 | 71,026 | 25,585 | 851 | 4,229 | 20,505 | 61,113 | 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 | 3,610 | 9,765 |
| 1981. | 91,152 | 75,121 | 25,497 | 1,139 | 4,188 | 20,170 | 65,655 | 5,165 | 5,375 | 15,171 | 5,298 | 18,615 | 2,772 | 3,640 | 9,619 |
| 1982 | 89,544 | 73,707 | 23,812 | 1,128 | 3,904 | 18,780 | 65,732 | 5,081 | 5,295 | 15,158 | 5,340 | 19,021 | 2,739 | 3,640 | 9,458 |
| 1983 | 90,152 | 74,282 | 23,330 | 952 | 3,946 | 18,432 | 66,821 | 4,952 | 5,283 | 15,587 | 5,466 | 19,664 | 2,774 | 3,662 | 9,434 |
| 1984 | 94,408 | 78,384 | 24,718 | 966 | 4,380 | 19,372 | 69,690 | 5,156 | 5,568 | 16,512 | 5,684 | 20,746 | 2,807 | 3,734 | 9,482 |
| 1985. | 97,387 | 80,992 | 24,842 | 927 | 4,668 | 19,248 | 72,544 | 5,233 | 5,727 | 17,315 | 5,948 | 21,927 | 2,875 | 3,832 | 9,687 |
| 1986 .. | 99,344 | 82,651 | 24,533 | 777 | 4,810 | 18,947 | 74,811 | 5,247 | 5,761 | 17,880 | 6,273 | 22,957 | 2,899 | 3,893 | 9,901 |
| 1987. | 101,958 | 84,948 | 24,674 | 717 | 4,958 | 18,999 | 77,284 | 5,362 | 5,848 | 18,422 | 6,533 | 24,110 | 2,943 | 3,967 | 10,100 |
| 1988 | 105,209 | 87,823 | 25,125 | 713 | 5,098 | 19,314 | 80,084 | 5,512 | 6,030 | 19,023 | 6,630 | 25,504 | 2,971 | 4,076 | 10,339 |
| 1989 ... | 107,884 | 90,105 | 25,254 | 692 | 5,171 | 19,391 | 82,630 | 5,614 | 6,187 | 19,475 | 6,668 | 26,907 | 2,988 | 4,182 | 10,609 |
| 1990. | 109,403 | 91,098 | 24,905 | 709 | 5,120 | 19,076 | 84,497 | 5,777 | 6,173 | 19,601 | 6,709 | 27,934 | 3,085 | 4,305 | 10,914 |
| 1991. | 108,249 | 89,847 | 23,745 | 689 | 4,650 | 18,406 | 84,504 | 5,755 | 6,081 | 19,284 | 6,646 | 28,336 | 2,966 | 4,355 | 11,081 |
| 1992. | 108,601 | 89,956 | 23,231 | 635 | 4.492 | 18,104 | 85,370 | 5.718 | 5,997 | 19,356 | 6,602 | 29,052 | 2,969 | 4,408 | 11,267 |
| 1993. | 110,713 | 91,872 | 23,352 | 610 | 4,668 | 18,075 | 87,361 | 5,811 | 5,981 | 19,773 | 6,757 | 30,197 | 2,915 | 4,488 | 11,438 |
| 1994 | 114,163 | 95,036 | 23,908 | 601 | 4,986 | 18,321 | 90,256 | 5,984 | 6,162 | 20,507 | 6,896 | 31,579 | 2,870 | 4,576 | 11,682 |
| 1995. | 117,191 | 97,885 | 24,265 | 581 | 5,160 | 18,524 | 92,925 | 6,132 | 6,378 | 21,187 | 6,806 | 33,117 | 2,822 | 4,635 | 11,849 |
| 1996 | 119,608 |  |  | 580 | 5,418 | 18,495 | 95,115 | 6,253 | 6,482 | 21,597 | 6,911 | 34,454 | 2,757 | 4,606 | 12,056 |
| 1997 | 122,690 | $103,120$ | 24,934 | 592 | 5,686 | 18,657 | 97,756 | 6,395 | 6,648 | 22,011 | 7,091 | 36,040 | 2,699 | 4,594 | 12,276 |
|  | Monthly data, seasonally adjusted |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1997: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| May .............. | 122,325 | 102.811 | 24,883 | 593 | 5,670 | 18,620 | 97,442 | 6,399 | 6,626 | 21,952 | 7,064 | 35,887 | 2,704 | 4,583 | 12,227 |
| June ..... | 122,534 | 102,991 | 24,903 | 593 | 5,668 | 18,642 | 97,631 | 6,405 | 6,632 | 21,987 | 7.072 | 35,992 | 2,697 | 4,586 | 12,260 |
| July | 122,811 | 103,219 | 24,923 | 593 | 5,682 | 18,648 | 97,888 | 6,411 | 6,655 | 21,987 | 7,095 | 36,148 | 2,691 | 4,617 | 12,284 |
| August | 122,894 | 103,285 | 24,972 | 592 | 5,699 | 18,681 | 97,922 | 6,264 | 6,671 | 22,043 | 7,110 | 36,225 | 2,091 | 4,602 | 12,316 |
| September | 123,280 | 103,673 | 24,993 | 594 | 5,713 | 18,686 | 98,287 | 6,435 | 6,679 | 22,078 | 7.125 | 36,363 | 2,684 | 4,604 | 12,319 |
| October .... | 123,568 | 103,922 | 25,032 | 592 | 5,722 | 18,718 | 98,536 | 6,453 | 6,697 | 22,105 | 7,151 | 36,484 | 2,690 | 4,609 | 12,347 |
| November | 123,944 | 104,282 | 25,099 | 591 | 5.750 | 18,758 | 98,845 | 6,456 | 6,711 | 22,206 | 7,172 | 36,638 | 2,689 | 4,613 | 12,360 |
| December ..... | 124,289 | 104,609 | 25,193 | 592 | 5,810 | 18,791 | 99,096 | 6,451 | 6,731 | 22,245 | 7,194 | 36,795 | 2,698 | 4,611 | 12,381 |
| 1998: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| January | 124,640 | 104,954 | 25,297 | 592 | 5,881 | 18,824 | 99,343 | 6,473 | 6,759 | 22,280 | 7,213 | 36,932 | 2,670 | 4,613 | 12,403 |
| Fabruary | 124,832 | 105,112 | 25,314 | 590 | 5,902 | 18,822 | 99,518 | 6,494 | 6,769 | 22,283 | 7,232 | 37,020 | 2,676 | 4.613 | 12,431 |
| March . | 124,914 | 105,186 | 25,276 | 587 | 5,860 | 18,829 | 99,638 | 6,504 | 6,783 | 22,259 | 7,258 | 37,106 | 2,671 | 4,619 | 12,438 |
| AprilP | 125,216 | 105,452 | 25,334 | 582 | 5,926 | 18,826 | 99,882 | 6,512 | 6,797 | 22,328 | 7,286 | 37,195 | 2,675 | 4,620 | 12,469 |
| May ............ | 125,512 | 105,707 | 25,298 | 581 | 5,917 | 18,800 | 100,214 | 6,534 | 6,806 | 22,417 | 7,306 | 37,346 | 2,672 | 4,632 | 12,501 |

1 Not available.
2 Data inelude Alaska and Hawaii beginning in 1959. This inclusion resulted in an increase of 212,000 ( 0.4 percent) in the nonfarm total for the March 1959 benchmark month.
$\mathrm{P}=$ preliminary.
NOTE: Data have been revised to reflect March 1997 benchmarks and recomputed seasonal adjustment factors. See the article in this issue for additional information.

B-2. Average hours and earnings of production or nonsupervisory workers ${ }^{\dagger}$ on private nonfarm payrolls by major industry, 1964 to date

| Year and month | Total private ${ }^{\text {t }}$ |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weekly hours | Hourly earnings | Weekly earnings | Weekly hours | Hourly earnings | Weekly earnings | 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 |
| 1974 ........................... | 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 | 13.26 | 570.18 | 37.9 | 13.54 | 513.17 |
| 1990 ... | 34.5 | 10.01 | 345.35 | 44.1 | 13.68 | 603.29 | 38.2 | 13.77 | 526.01 |
| 1991 ........................... | 34.3 | 10.32 | 353.98 | 44.4 | 14.19 | 630.04 | 38.1 | 14.00 | 533.40 |
| 1992 ........................... | 34.4 | 10.57 | 363.61 | 43.9 | 14.54 | 638.31 | 38.0 | 14.15 | 537.70 |
| 1993 ........................... | 34.5 | 10.83 | 373.64 | 44.3 | 14.60 | 646.78 | 38.5 | 14.38 | 553.63 |
| 1994. | 34.7 | 11.12 | 385.86 | 44.8 | 14.88 | 666.62 | 38.9 | 14.73 | 573.00 |
| 1995 ........................... | 34.5 | 11.43 | 394.34 | 44.7 | 15.30 | 683.91 | 38.9 | 15.09 | 587.00 |
| 1996 ........................... | 34.4 | 11.82 | 406.61 | 45.3 | 15.62 | 707.59 | 39.0 | 15.47 | 603.33 |
| 1997 ......................... | 34.6 | 12.28 | 424.89 | 45.4 | 16.17 | 734.12 | 38.9 | 16.03 | 623.57 |
|  | Monthly data, not seasonalily adjusted |  |  |  |  |  |  |  |  |
| 1997: |  |  |  |  |  |  |  |  |  |
| May .......................... | 34.5 | \$12.18 | \$420.21 | 45.8 | \$16.01 | \$733.26 | 39.7 | \$15.86 | \$629.64 |
| June ......................... | 34.9 | 12.18 | 425.08 | 45.8 | 16.14 | 739.21 | 39.6 | 15.91 | 630.04 |
| July .......................... | 34.8 | 12.17 | 423.52 | 45.1 | 16.07 | 724.76 | 40.1 | 16.03 | 642.80 |
| August ...................... | 35.0 | 12.22 | 427.70 | 45.6 | 15.98 | 728.69 | 39.7 | 16.12 | 639.96 |
| September ................ | 34.8 | 12.40 | 431.52 | 45.5 | 16.26 | 739.83 | 40.1 | 16.30 | 653.63 |
| October ..................... | 34.7 | 12.45 | 432.02 | 45.3 | 16.23 | 735.22 | 39.8 | 16.33 | 649.93 |
| November .................. | 34.8 | 12.53 | 436.04 | 45.6 | 16.41 | 748.30 | 37.8 | 16.28 | 615.38 |
| December .................. | 34.8 | 12.53 | 436.04 | 45.2 | 16.52 | 746.70 | 38.5 | 16.37 | 630.25 |
| 1998: |  |  |  |  |  |  |  |  |  |
| January ..................... | 34.2 | 12.60 | 430.92 | 45.0 | 16.65 | 749.25 | 37.4 | 16.25 | 607.75 |
| February ................... | 34.6 | 12.65 | 437.69 | 44.0 | 16.89 | 743.16 | 37.9 | 16.21 | 614.36 |
| March ........................ | 34.5 | 12.68 | 437.46 | 43.4 | 16.89 | 733.03 | 37.9 | 16.29 | 617.39 |
| AprilP ........................ | 34.2 | 12.69 | 434.00 | 43.5 | 16.82 | 731.67 | 38.0 | 16.35 | 621.30 |
| Mayp ........................ | 34.5 | 12.70 | 438.15 | 44.4 | 16.76 | 744.14 | 39.3 | 16.45 | 646.49 |

See tootnotes at end of table.

ESTABLISHMENT DATA
HISTORICAL HOURS AND EARNINGS
B-2. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarmpayrolls 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 | Weekty 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 | \$102.56 |
| 1965 ........................... | 41.2 | 2.61 | 2.50 | 107.53 | 41.3 | 3.03 | 125.14 | 40.8 | 2.60 | 106.08 |
| 1966 ...................... | 41.4 | 2.71 | 2.59 | 112.19 | 41.2 | 3.11 | 128.13 | 40.7 | 2.73 | 111.11 |
| 1967 .................... | 40.6 | 2.82 | 2.71 | 114.49 | 40.5 | 3.23 | 130.82 | 40.3 | 2.87 | 115.66 |
| 1968 ......................... | 40.7 | 3.01 | 2.88 | 122.51 | 40.6 | 3.42 | 138.85 | 40.1 | 3.04 | 121.90 |
| 1969 ......................... | 40.6 | 3.19 | 3.05 | 129.51 | 40.7 | 3.63 | 147.74 | 40.2 | 3.23 | 129.85 |
| 1970 ........................ | 39.8 | 3.35 | 3.23 | 133.33 | 40.5 | 3.85 | 155.93 | 39.9 | 3.43 | 136.86 |
| 1971 ....................... | 39.9 | 3.57 | 3.45 | 142.44 | 40.1 | 4.21 | 168.82 | 39.4 | 3.64 | 143.42 |
| 1972 ........................ | 40.5 | 3.82 | 3.66 | 154.71 | 40.4 | 4.65 | 187.86 | 39.4 | 3.85 | 151.69 |
| 1973 ......................... | 40.7 | 4.09 | 3.91 | 166.46 | 40.5 | 5.02 | 203.31 | 39.2 | 4.07 | 159.54 |
| 1974 .......................... | 40.0 | 4.42 | 4.25 | 176.80 | 40.2 | 5.41 | 217.48 | 38.8 | 4.38 | 169.94 |
| 1975 ..................... | 39.5 | 4.83 | 4.67 | 190.79 | 39.7 | 5.88 | 233.44 | 38.6 | 4.72 | 182.19 |
| 1976 ........................ | 40.1 | 5.22 | 5.02 | 209.32 | 39.8 | 6.45 | 256.71 | 38.7 | 5.02 | 194.27 |
| 1977 .......................... | 40.3 | 5.88 | 5.44 | 228.90 | 39.9 | 6.99 | 278.90 | 38.8 | 5.39 | 209.13 |
| 1978 ....................... | 40.4 | 6.17 | 5.91 | 249.27 | 40.0 | 7.57 | 302.80 | 38.8 | 5.88 | 228.14 |
| 1979 ......................... | 40.2 | 6.70 | 6.43 | 269.34 | 39.9 | 8.16 | 325.58 | 38.8 | 6.39 | 247.93 |
| 1980 ... | 39.7 | 7.27 | 7.02 | 288.62 | 39.6 | 8.87 | 351.25 | 38.4 | 6.95 | 266.88 |
| 1981 ......................... | 39.8 | 7.99 | 7.72 | 318.00 | 39.4 | 9.70 | 382.18 | 38.5 | 7.55 | 290.68 |
| 1982 ......................... | 38.9 | 8.49 | 8.25 | 330.26 | 39.0 | 10.32 | 402.48 | 38.3 | 8.08 | 309.46 |
| 1983 ..................... | 40.1 | 8.83 | 8.52 | 354.08 | 39.0 | 10.79 | 420.81 | 38.5 | 8.54 | 328.79 |
| 1984 ....................... | 40.7 | 9.19 | 8.82 | 374.03 | 39.4 | 11.12 | 438.13 | 38.5 | 8.88 | 341.88 |
| 1985 ....................... | 40.5 | 9.54 | 9.16 | 386.37 | 39.5 | 11.40 | 450.30 | 38.4 | 9.15 | 351.36 |
| 1986 ... | 40.7 | 9.73 | 9.34 | 396.01 | 39.2 | 11.70 | 458.64 | 38.3 | 9.34 | 357.72 |
| 1987 | 41.0 | 9.91 | 9.48 | 406.31 | 39.2 | 12.03 | 471.58 | 38.1 | 9.59 | 365.38 |
| 1988 ... | 41.1 | 10.19 | 9.73 | 418.81 | 38.2 | 12.24 | 467.57 | 38.1 | 9.98 | 380.24 |
| 1989 .......................... | 41.0 | 10.48 | 10.02 | 429.68 | 38.3 | 12.57 | 481.43 | 38.0 | 10.39 | 394.82 |
| 1990 ......................... | 40.8 | 10.83 | 10.37 | 441.86 | 38.4 | 12.92 | 496.13 | 38.1 | 10.79 | 411.10 |
| 1991 ......................... | 40.7 | 11.18 | 10.71 | 455.03 | 38.1 | 13.20 | 502.92 | 38.1 | 11.15 | 424.82 |
| 1992 ... | 41.0 | 11.46 | 10.95 | 469.86 | 38.3 | 13.43 | 514.37 | 38.2 | 11.39 | 435.10 |
| 1993 ........................ | 41.4 | 11.74 | 11.18 | 486.04 | 39.3 | 13.55 | 532.52 | 38.2 | 11.74 | 448.47 |
| 1994 .......................... | 42.0 | 12.07 | 11.43 | 506.94 | 39.7 | 13.78 | 547.07 | 38.4 | 12.06 | 463.10 |
| 1995 .......................... | 41.6 | 12.37 | 11.74 | 514.59 | 39.4 | 14.13 | 556.72 | 38.3 | 12.43 | 476.07 |
| 1996 ................ | 41.6 | 12.77 | 12.12 | 531.23 | 39.6 | 14.45 | 572.22 | 38.3 | 12.87 | 492.92 |
| 1997 ....................... | 42.0 | 13.17 | 12.45 | 553.14 | 39.7 | 14.93 | 592.72 | 38.4 | 13.44 | 516.10 |
|  | Monthly data, not seasonally adjusted |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| May .......................... | 41.9 | \$13.08 | \$12.39 | \$548.05 | 39.3 | \$14.76 | \$580.07 | 38.5 | \$13.33 | \$513.21 |
| June ......................... | 42.0 | 13.09 | 12.40 | 549.78 | 39.9 | 14.82 | 591.32 | 38.7 | 13.37 | 517.42 |
| July ......................... | 41.2 | 13.10 | 12.42 | 539.72 | 39.5 | 14.99 | 592.11 | 38.3 | 13.38 | 512.45 |
| August ..................... | 42.0 | 13.14 | 12.41 | 551.88 | 40.5 | 15.04 | 609.12 | 38.5 | 13.48 | 518.98 |
| September ................ | 42.4 | 13.23 | 12.46 | 560.95 | 40.3 | 15.06 | 606.92 | 38.4 | 13.53 | 519.55 |
| October ..................... | 42.2 | 13.28 | 12.53 | 560.42 | 39.8 | 15.09 | 600.58 | 38.4 | 13.57 | 521.09 |
| November ................. | 42.6 | 13.36 | 12.60 | 569.14 | 40.4 | 15.19 | 613.68 | 38.7 | 13.76 | 532.51 |
| December .................. | 43.0 | 13.47 | 12.68 | 579.21 | 39.8 | 15.17 | 603.77 | 38.4 | 13.72 | 526.85 |
| 1998: ${ }_{\text {January }}$ | 41.9 | 13.40 | 12.70 | 561.46 | 39.3 | 15.27 | 600.11 | 38.1 | 13.77 | 524.64 |
| February ........................ | 41.7 | 13.41 | 12.72 | 559.20 | 39.9 | 15.29 | 610.07 | 38.5 | 13.85 | 533.23 |
| March ...................... | 41.7 | 13.47 | 12.76 | 561.70 | 39.4 | 15.24 | 600.46 | 38.4 | 13.86 | 532.22 |
| Aprip ....................... | 40.7 | 13.46 | 12.83 | 547.82 | 39.1 | 15.26 | 596.67 | 38.1 | 13.92 | 530.35 |
| Mayp ........................ | 41.6 | 13.47 | 12.77 | 560.35 | 39.7 | 15.20 | 603.44 | 38.4 | 13.97 | 536.45 |

See footnotes at end of table.

B-2. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ 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 | Weakly hours | Hourly earnings | Weekly earnings | Weakly hours | Hourly earnings | Weekly earnings |
|  | Annual averages |  |  |  |  |  |  |  |  |
| 1964 .......................... | 37.0 | \$1.75 | \$64.75 | 37.3 | \$2.30 | \$85.79 | 36.1 | \$1.94 | \$70.03 |
| 1965 ........................... | 36.6 | 1.82 | 66.61 | 37.2 | 2.39 | 88.91 | 35.9 | 2.05 | 73.60 |
| 1966 ..................... | 35.9 | 1.91 | 68.57 | 37.3 | 2.47 | 92.13 | 35.5 | 2.17 | 77.04 |
| 1967 ................... | 35.3 | 2.01 | 70.95 | 37.1 | 2.58 | 95.72 | 35.1 | 2.29 | 80.38 |
| 1968 ........................... | 34.7 | 2.16 | 74.95 | 37.0 | 2.75 | 101.75 | 34.7 | 2.42 | 83.97 |
| 1969 .......................... | 34.2 | 2.30 | 78.66 | 37.1 | 2.93 | 108.70 | 34.7 | 2.61 | 90.57 |
| 1970 ... | 33.8 | 2.44 | 82.47 | 36.7 | 3.07 | 112.67 | 34.4 | 2.81 | 96.66 |
| 1971 ......................... | 33.7 | 2.60 | 87.62 | 36.6 | 3.22 | 117.85 | 33.9 | 3.04 | 103.06 |
| 1972 .......................... | 33.4 | 2.75 | 91.85 | 36.6 | 3.36 | 122.98 | 33.9 | 3.27 | 110.85 |
| 1973 ... | 33.1 | 2.91 | 96.32 | 36.6 | 3.53 | 129.20 | 33.8 | 3.47 | 117.29 |
| 1974 ........................... | 32.7 | 3.14 | 102.68 | 36.5 | 3.77 | 137.61 | 33.6 | 3.75 | 126.00 |
| 1975 ........................... | 32.4 | 3.36 | 108.86 | 36.5 | 4.06 | 148.19 | 33.5 | 4.02 | 134.67 |
| 1976 ........................... | 32.1 | 3.57 | 114.60 | 36.4 | 4.27 | 155.43 | 33.3 | 4.31 | 143.52 |
| 1977 ........................... | 31.6 | 3.85 | 121.66 | 36.4 | 4.54 | 165.26 | 33.0 | 4.65 | 153.45 |
| 1978 ........................... | 31.0 | 4.20 | 130.20 | 36.4 | 4.89 | 178.00 | 32.8 | 4.99 | 163.67 |
| 1979 ........................... | 30.6 | 4.53 | 138.62 | 36.2 | 5.27 | 190.77 | 32.7 | 5.36 | 175.27 |
| 1980 ........................... | 30.2 | 4.88 | 147.38 | 36.2 | 5.79 | 209.60 | 32.6 | 5.85 | 190.71 |
| 1981 ........................... | 30.1 | 5.25 | 158.03 | 36.3 | 6.31 | 229.05 | 32.6 | 6.41 | 208.97 |
| 1982 ........................... | 29.9 | 5.48 | 163.85 | 36.2 | 6.78 | 245.44 | 32.6 | 6.92 | 225.59 |
| 1983 | 29.8 | 5.74 | 171.05 | 36.2 | 7.29 | 263.90 | 32.7 | 7.31 | 239.04 |
| 1984 ... | 29.8 | 5.85 | 174.33 | 36.5 | 7.63 | 278.50 | 32.6 | 7.59 | 247.43 |
| 1985 ........................... | 29.4 | 5.94 | 174.64 | 36.4 | 7.94 | 289.02 | 32.5 | 7.90 | 256.75 |
| 1986 ........................... | 29.2 | 6.03 | 176.08 | 36.4 | 8.36 | 304.30 | 32.5 | 8.18 | 265.85 |
| 1987 ........................... | 29.2 | 6.12 | 176.70 | 36.3 | 8.73 | 316.90 | 32.5 | 8.49 | 275.93 |
| 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 | 9.53 | 341.17 | 32.6 | 9.38 | 305.79 |
| 1990 .......................... | 28.8 | 6.75 | 194.40 | 35.8 | 9.97 | 356.93 | 32.5 | 9.83 | 319.48 |
| 1991 ........................... | 28.6 | 6.94 | 198.48 | 35.7 | 10.39 | 370.92 | 32.4 | 10.23 | 331.45 |
| 1992 ........................... | 28.8 | 7.12 | 205.06 | 35.8 | 10.82 | 387.36 | 32.5 | 10.54 | 342.55 |
| 1993 ........................... | 28.8 | 7.29 | 209.95 | 35.8 | 11.35 | 406.33 | 32.5 | 10.78 | 350.35 |
| 1994. | 28.9 | 7.49 | 216.46 | 35.8 | 11.83 | 423.51 | 32.5 | 11.04 | 358.80 |
| 1995 ........................... | 28.8 | 7.69 | 221.47 | 35.9 | 12.32 | 442.29 | 32.4 | 11.39 | 369.04 |
| 1996 .......................... | 28.8 | 7.99 | 230.11 | 35.9 | 12.80 | 459.52 | 32.4 | 11.79 | 382.00 |
| 1997 .......................... | 28.9 | 8.34 | 241.03 | 36.1 | 13.33 | 481.21 | 32.6 | 12.28 | 400.33 |
|  | Monthly data, not seasonally adjusted |  |  |  |  |  |  |  |  |
| 1997: |  |  |  |  |  |  |  |  |  |
| May .......................... | 28.8 | \$8.27 | \$238.18 | 35.9 | \$13.21 | \$474.24 | 32.4 | \$12.16 | \$393.98 |
| June ......................... | 29.4 | 8.27 | 243.14 | 36.7 | 13.26 | 486.64 | 32.8 | 12.14 | 398.19 |
| July .......................... | 29.6 | 8.27 | 244.79 | 35.9 | 13.21 | 474.24 | 32.8 | 12.06 | 395.57 |
| August ...................... | 29.7 | 8.30 | 246.51 | 36.1 | 13.38 | 483.02 | 32.9 | 12.12 | 398.75 |
| September ................. | 29.0 | 8.45 | 245.05 | 35.8 | 13.48 | 482.58 | 32.5 | 12.36 | 401.70 |
| October ..................... | 28.8 | 8.47 | 243.94 | 35.9 | 13.56 | 486.80 | 32.6 | 12.41 | 404.57 |
| November ................. | 28.8 | 8.51 | 245.09 | 36.7 | 13.72 | 503.52 | 32.8 | 12.57 | 412.30 |
| December ........ | 29.2 | 8.51 | 248.49 | 35.9 | 13.64 | 489.68 | 32.6 | 12.61 | 411.09 |
| 1998: |  |  |  |  |  |  |  |  |  |
| January ..................... | 28.1 | 8.63 | 242.50 | 36.1 | 13.70 | 494.57 | 32.4 | 12.66 | 410.18 |
| February ................... | 28.7 | 8.62 | 247.39 | 37.1 | 13.95 | 517.55 | 32.8 | 12.75 | 418.20 |
| March ........................ | 28.7 | 8.67 | 248.83 | 36.8 | 13.97 | 514.10 | 32.7 | 12.77 | 417.58 |
| Aprilp ........................ | 28.7 | 8.71 | 249.98 | 36.1 | 13.98 | 504.68 | 32.4 | 12.75 | 413.10 |
| Mayp ........................ | 29.0 | 8.73 | 253.17 | 36.1 | 13.97 | 504.32 | 32.5 | 12.73 | 413.73 |

[^16]$\mathrm{p}=$ preliminary.
NOTE: Data have been revised io reflect March 1997 benchmarks. See the articie in this issue for additional information.

## ESTABLISHMENT DATA

## EMPLOYMENT

SEASONALLY ADJUSTED
B-3. Employees on nonfarm payrolls by major industry and selected component groups, seasonally adjusted
(In thousands)

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow{2}{*}{Industry} \& \multicolumn{8}{|c|}{1997} \& \multicolumn{5}{|c|}{1998} <br>
\hline \& May \& June \& July \& Aug. \& Sept. \& Oct. \& Nov. \& Dec. \& Jan. \& Feb. \& Mar. \& Apr.p \& Mayp <br>
\hline Total \& \multirow[t]{2}{*}{$$
\begin{array}{|l|l|l|}
122,325 \\
102,811
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 122,534 \\
& 102,991
\end{aligned}
$$} \& \multirow[t]{2}{*}{$$
\left\lvert\, \begin{aligned}
& 122,811 \\
& 103,219
\end{aligned}\right.
$$} \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 122,894 \\
& 103,285
\end{aligned}
$$} \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 123,280 \\
& 103,673
\end{aligned}
$$} \& \multirow[t]{2}{*}{$$
\left\lvert\, \begin{array}{|l|l}
123,568 \\
103,922
\end{array}\right.
$$} \& \multirow[t]{2}{*}{$$
\left\lvert\, \begin{aligned}
& 123,944 \\
& 104,282
\end{aligned}\right.
$$} \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 124,289 \\
& 104,609
\end{aligned}
$$} \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 124,640 \\
& 104,954
\end{aligned}
$$} \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 124,832 \\
& 105,112
\end{aligned}
$$} \& \multirow[t]{2}{*}{$$
\left\lvert\, \begin{aligned}
& 124,914 \\
& 105,186
\end{aligned}\right.
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{|l|l}
125,216 \\
105,452
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 125,512 \\
& 105,707
\end{aligned}
$$} <br>
\hline Total private \& \& \& \& \& \& \& \& \& \& \& \& \& <br>
\hline Goods-producing \& 24,883 \& 24,903 \& 24,923 \& 24,972 \& 24,993 \& 25,032 \& 25,099 \& 25,193 \& 25,297 \& 25,314 \& 25,276 \& 25,334 \& 25,298 <br>
\hline ing \& \multirow[t]{2}{*}{$\begin{array}{r}593 \\ 54 \\ \hline\end{array}$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
593 \\
54
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
593 \\
54
\end{array}
$$} \& \multirow[t]{2}{*}{$\begin{array}{r}592 \\ 54 \\ \hline\end{array}$} \& \multirow[t]{2}{*}{$$
\begin{array}{r}
594 \\
53
\end{array}
$$} \& \multirow[t]{2}{*}{$$
\begin{gathered}
592 \\
53
\end{gathered}
$$} \& 591 \& \multirow[t]{2}{*}{592} \& \multirow[t]{2}{*}{592} \& \multirow[t]{2}{*}{590} \& 587 \& 582 \& \multirow[t]{2}{*}{581
51} <br>
\hline Metal mining \& \& \& \& \& \& \& 53 \& \& \& \& \multirow[t]{2}{*}{93} \& 51 \& <br>
\hline Coal mining. \& 97 \& $\begin{array}{r}96 \\ 335 \\ \hline\end{array}$ \& 95 \& 95 \& -95 \& \multirow[t]{2}{*}{$\begin{array}{r}95 \\ \hline 337 \\ \hline\end{array}$} \& 94 \& 94 \& \multirow[t]{2}{*}{$\begin{array}{r}94 \\ \hline 338 \\ \hline\end{array}$} \& 93 \& \& \multirow[t]{2}{*}{92

332} \& \multirow[t]{2}{*}{92
331} <br>
\hline Oil and gas extraction \& \multirow[t]{2}{*}{334
108} \& \multirow[b]{2}{*}{108} \& \multirow[b]{2}{*}{108} \& \multirow[b]{2}{*}{107} \& \multirow[b]{2}{*}{108} \& \& \multirow[b]{2}{*}{107} \& \multirow[b]{2}{*}{108} \& \& \multirow[b]{2}{*}{107} \& 336 \& \& <br>
\hline Nonmetallic minerals, except fuels \& \& \& \& \& \& 107 \& \& \& 108 \& \& 107 \& 107 \& 107 <br>
\hline Construction \& 5.670 \& 5,668 \& 5,882 \& 5,699 \& 5,713 \& 5,722 \& 5,750 \& 5,810 \& 5,881 \& 5,902 \& 5,860 \& 5,926 \& 5,917 <br>
\hline General building contractors .. \& 1,310 \& 1,312 \& 1,316 \& 1,318 \& 1,320 \& 1,326 \& 1,335 \& 1,351 \& 1,365 \& 1,371 \& 1,373 \& 1,384 \& 1,382 <br>
\hline Heavy construction, except building \& 797 \& \multirow[t]{2}{*}{3,565} \& 789 \& 791 \& 792 \& 789 \& 788 \& 805 \& 817 \& 813 \& 805 \& 818 \& 816 <br>
\hline Special trade contractors ............. \& 3,563 \& \& 3,577 \& 3,590 \& 3,601 \& 3,607 \& 3,627 \& 3,654 \& 3,699 \& 3,718 \& 3,682 \& 3,724 \& 3,719 <br>
\hline Manufacturing \& 18,620 \& 18,642 \& 18,648 \& 18,681 \& 18,686 \& 18.718 \& 18,758 \& 18,791 \& 18,824 \& 18,822 \& 18,829 \& 18,826 \& 18,800 <br>
\hline Durable goods \& \multirow[t]{2}{*}{10,941
794} \& \multirow[t]{2}{*}{10,966
793} \& \multirow[t]{2}{*}{10,988
793} \& \multirow[t]{2}{*}{11,028
794} \& \multirow[t]{2}{*}{11,030
794} \& \multirow[t]{2}{*}{11,060
794} \& \multirow[t]{2}{*}{11,094
795} \& \multirow[t]{2}{*}{11,118
798} \& \multirow[t]{2}{*}{11,154
800

180} \& \multirow[t]{2}{*}{11,159
800} \& \multirow[t]{2}{*}{$\begin{array}{r}11,166 \\ 801 \\ \hline\end{array}$} \& \multirow[t]{2}{*}{11,169
801} \& 11,158 <br>
\hline Lumber and wood producls \& \& \& \& \& \& \& \& \& \& \& \& \& \multirow[t]{2}{*}{802
527} <br>

\hline Furniture and fixtures. \& 509 \& 509 \& 510 \& 509 \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 510 \\
& 553
\end{aligned}
$$} \& \multirow[t]{2}{*}{\[

$$
\begin{aligned}
& 511 \\
& 554
\end{aligned}
$$

\]} \& 513 \& \multirow[t]{2}{*}{\[

515

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{aligned}
& 517 \\
& 562
\end{aligned}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{aligned}
& 519 \\
& 561
\end{aligned}
$$

\]} \& \multirow[t]{2}{*}{| 520 |
| :--- |
| 558 |} \& \multirow[t]{2}{*}{524

561} \& <br>
\hline Stone, clay, and glass products \& 551 \& \multirow[t]{2}{*}{${ }^{550}$} \& \multirow[t]{2}{*}{553
708} \& \multirow[t]{2}{*}{552
712} \& \& \& 554 \& \& \& \& \& \& \multirow[t]{2}{*}{559
716} <br>

\hline Primary metal industries. \& 708 \& \& \& \& \multirow[t]{2}{*}{$$
\begin{array}{r}
714 \\
1,480
\end{array}
$$} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
714 \\
1,485
\end{array}
$$

\]} \& 715 \& \[

$$
\begin{aligned}
& 555 \\
& 716
\end{aligned}
$$

\] \& \[

$$
\begin{aligned}
& 562 \\
& 719
\end{aligned}
$$

\] \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
718 \\
1,497
\end{array}
$$
\]} \& +719 \& 717 \& <br>

\hline Fabricated metal products \& 1,473 \& 1,474 \& 1,472 \& 1,478 \& \& \& 1,488 \& \multirow[t]{2}{*}{$$
\begin{aligned}
& 1,491 \\
& 2,196
\end{aligned}
$$} \& \multirow[t]{2}{*}{\[

$$
\begin{aligned}
& 1,496 \\
& 2,200
\end{aligned}
$$

\]} \& \& \multirow[t]{2}{*}{2,205} \& \multirow[t]{3}{*}{\[

$$
\begin{array}{r}
1,498 \\
2,202 \\
378
\end{array}
$$
\]} \& \multirow[t]{2}{*}{1,496

2,200} <br>

\hline Industrial machinery and equipme \& 2,154 \& 2,160 \& 2,165 \& \multirow[t]{2}{*}{$$
\begin{array}{r}
2,172 \\
\begin{array}{r}
172
\end{array} \mathbf{3 7 9}
\end{array}
$$} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
2,175 \\
379
\end{array}
$$

\]} \& \multirow[t]{2}{*}{\[

$$
\begin{array}{r}
2.185 \\
380
\end{array}
$$

\]} \& 2,191 \& \& \& \[

$$
\begin{aligned}
& 1,401 \\
& 2,202
\end{aligned}
$$
\] \& \& \& <br>

\hline Computer and office equipment
Electronic and other elecirical \& 374 \& 375 \& 377 \& \& \& \& 379 \& 381 \& 381 \& 381 \& 381 \& \& 375 <br>
\hline equipment ...... \& 1,676 \& 1,684 \& 1,690 \& \multirow[t]{2}{*}{1,694} \& \multirow[t]{2}{*}{1,698} \& \multirow[t]{2}{*}{1,702} \& \multirow[t]{2}{*}{1,707} \& \multirow[t]{2}{*}{1,712} \& \multirow[t]{2}{*}{1,719} \& \multirow[t]{2}{*}{1,720} \& \multirow[t]{2}{*}{1,722} \& \multirow[t]{2}{*}{1,720} \& \multirow[t]{2}{*}{1,716} <br>
\hline Electronic components and \& \& \& \& \& \& \& \& \& \& \& \& \& <br>

\hline Transportation equipment ................... \& $\begin{array}{r}646 \\ 1,824 \\ \hline\end{array}$ \& \& \& \[
$$
\begin{array}{r}
660 \\
1,862
\end{array}
$$

\] \& \[

$$
\begin{array}{r}
664 \\
1,852
\end{array}
$$
\] \& 1,861 \& 1,878 \& 1,878 \& 1,882 \& 1,886 \& 1,887 \& 1,889 \& 1,887 <br>

\hline Motor vehicles and equipment \& 973 \& 979 \& 980 \& 998 \& 986 \& 990 \& 1,005 \& 1,001 \& 1,002 \& 1,004 \& 1,002 \& 1,004 \& 1,000 <br>
\hline Aircraft and parts ... \& 495 \& 500 \& 504 \& 508 \& 510 \& 513 \& 516 \& 519 \& 521 \& 523 \& 525 \& 525 \& 524 <br>
\hline Instruments and related products \& 861 \& 863 \& 865 \& 865 \& 865 \& 866 \& 867 \& 869 \& 870 \& 866 \& 868 \& 868 \& 867 <br>
\hline Miscellaneous manulacturing . \& 391 \& 390 \& 392 \& 390 \& 389 \& 388 \& 386 \& 388 \& 389 \& 390 \& 389 \& 389 \& 388 <br>
\hline Nondurable goods \& 7,679 \& 7,676 \& 7.660 \& 7.653 \& 7.656 \& 7,658 \& 7.664 \& 7,673 \& 7.670 \& 7.663 \& 7.663 \& 7.657 \& 7,642 <br>
\hline Food and kindred products \& 1,690 \& 1,690 \& 1,687 \& 1,682 \& 1,688 \& 1,689 \& 1,696 \& 1,702 \& 1,702 \& 1,703 \& 1,704 \& 1,707 \& 1,706 <br>
\hline Tobacco products .... \& 41 \& 41 \& 42 \& 41 \& 40 \& 41 \& 42 \& 41 \& 40 \& 41 \& 41 \& 42 \& 41 <br>
\hline Textile mill products \& 617 \& 616 \& 616 \& 613 \& 613 \& 612 \& 611 \& 611 \& 608 \& 606 \& 604 \& 605 \& 604 <br>
\hline Apparel and other textile prod \& 831 \& 829 \& 824 \& 822 \& 817 \& 814 \& 810 \& 808 \& 805 \& 796 \& 796 \& 787 \& 778 <br>
\hline Paper and allied products. \& 685 \& 684 \& 684 \& 684 \& 685 \& 685 \& 686 \& 686 \& 688 \& 688 \& 688 \& 686 \& 684 <br>
\hline Printing and publishing ... \& 1,553 \& 1,557 \& 1,556 \& 1.556 \& 1,556 \& 1,558 \& 1,560 \& 1,561 \& 1,564 \& 1,564 \& 1.564 \& 1,566 \& 1,566 <br>
\hline Chemicals and allied products \& 1,036 \& 1,034 \& 1,031 \& 1,032 \& 1,033 \& 1,034 \& 1.035 \& 1,036 \& 1,035 \& 1,036 \& 1,036 \& 1,035 \& 1,038 <br>
\hline Petroieum and coal products \& 141 \& 140 \& 139 \& 139 \& 139 \& 139 \& 138 \& 139 \& 136 \& 136 \& 136 \& 137 \& 136 <br>
\hline Rubber and misc. plastics products .... \& 993 \& 994 \& 991 \& 995 \& 997 \& 998 \& 999 \& 1,002 \& 1,006 \& 1,007 \& 1,009 \& 1,008 \& 1,005 <br>
\hline Leather and leather products .... \& 92 \& 91 \& 90 \& 89 \& 88 \& 88 \& 87 \& 87 \& 86 \& 86 \& 85 \& 84 \& 84 <br>
\hline Service-producing \& 97,442 \& 97,631 \& 97,888 \& 97,922 \& 98,287 \& 98,536 \& 98,845 \& 99,096 \& 99,343 \& 99,518 \& 99,638 \& 99,882 \& 100,214 <br>
\hline Transportation and public utilities \& 6,399 \& 6,405 \& 6.411 \& 6,264 \& 6,435 \& 6,453 \& 6,456 \& 6,451 \& 6,473 \& 6,494 \& 6,504 \& 6,512 \& 6.534 <br>
\hline Transportation \& 4,112 \& 4.118 \& 4,120 \& 3,973 \& 4,141 \& 4,149 \& 4,147 \& 4,135 \& 4,148 \& 4,164 \& 4.170 \& 4,173 \& 4,190 <br>
\hline Reirroad transportation \& 226 \& 229 \& 228 \& 225 \& 227 \& 227 \& 228 \& 230 \& 231 \& 231 \& 231 \& 230 \& 230 <br>
\hline Local and interurban passenger transit \& 450 \& 450 \& 451 \& 455 \& 451 \& 452 \& 453 \& 455 \& 456 \& 459 \& 460 \& 454 \& 461 <br>
\hline Trucking and warehousing \& 1,666 \& 1,666 \& 1,670 \& 1,675 \& 1,680 \& 1,680 \& 1,678 \& 1,676 \& 1,684 \& 1,688 \& 1,690 \& 1,702 \& 1,703 <br>
\hline Water transportation .... \& 179 \& 181 \& 180 \& 181 \& 180 \& 180 \& 180 \& 179 \& 177 \& 181 \& 183 \& 182 \& 185 <br>
\hline Transportation by air \& 1,139 \& 1,139 \& 1,137 \& 981 \& 1,147 \& 1,154 \& 1,151 \& 1,138 \& 1,142 \& 1,145 \& 1,146 \& 1,146 \& 1,149 <br>
\hline Pipelines, except natural gas.. \& 14 \& 14 \& 14 \& 14 \& 14 \& 14 \& 14 \& 14 \& 14 \& 14 \& 14 \& 14 \& 14 <br>
\hline Transportation services \& 438 \& 439 \& 440 \& 442 \& 442 \& 442 \& 443 \& 443 \& 444 \& 446 \& 446 \& 445 \& 448 <br>
\hline Communications and public utilities \& 2,287 \& 2,287 \& 2,291 \& 2,291 \& 2,294 \& 2,304 \& 2,309 \& 2,316 \& 2,325 \& 2,330 \& 2,334 \& 2,339 \& 2,344 <br>
\hline Communications. \& 1,419 \& 1,421 \& 1,425 \& 1,430 \& 1,432 \& 1,443 \& 1,449 \& 1,457 \& 1,466 \& 1,471 \& 1,475 \& 1,484 \& 1,490 <br>
\hline Electric, gas, and sanitary services .... \& 868 \& 866 \& 866 \& 861 \& 862 \& 861 \& 860 \& 859 \& 859 \& 859 \& 859 \& 855 \& 854 <br>
\hline Wholesale trade \& 6,626 \& 6,632 \& 6,655 \& 6,671 \& 6,679 \& 6,697 \& 6,711 \& 6,731 \& 6,759 \& 6,769 \& 6,783 \& 6,797 \& 6,806 <br>
\hline Durable goods \& 3.916 \& 3,923 \& 3,942 \& 3,959 \& 3,964 \& 3,977 \& 3,989 \& 4,002 \& 4,017 \& 4,030 \& 4,039 \& 4,050 \& 4,053 <br>
\hline Nondurable goods \& 2,710 \& 2,709 \& 2,713 \& 2,712 \& 2,715 \& 2,720 \& 2,722 \& 2,729 \& 2,742 \& 2,739 \& 2,744 \& 2,747 \& 2,753 <br>
\hline
\end{tabular}

See footnotes at end of table.

## B-3. Employees on nonfarm payrolls by major industry and selected component groups, seasonally adjusted-Continued

(In thousands)

| Industry | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.p | Mayp |
| Retail trade | 21,952 | 21,987 | 21,987 | 22,043 | 22,078 | 22,105 | 22,206 | 22,245 | 22,280 | 22,283 | 22,259 | 22,328 | 22,417 |
| Building materials and garden supplies | 941 | 938 | 940 | 940 | 939 | 938 | 944 | 946 | 954 | 959 | 966 | 967 | 966 |
| General merchandise stores ............... | 2.702 | 2.709 | 2,713 | 2,723 | 2,726 | 2,738 | 2,761 | 2,771 | 2,771 | 2,756 | 2,759 | 2,784 | 2,801 |
| Department stores | 2,376 | 2,379 | 2,385 | 2,393 | 2,397 | 2,409 | 2,433 | 2,434 | 2,439 | 2,427 | 2,428 | 2,448 | 2,476 |
| Food stores ........... | 3,486 | 3,490 | 3,500 | 3,503 | 3,506 | 3,512 | 3,516 | 3,517 | 3,528 | 3,533 | 3,536 | 3,533 | 3,539 |
| Automotive dealers and service stations $\qquad$ | 2,309 | 2,309 | 2,311 | 2,317 | 2,321 | 2,325 | 2,328 | 2,329 | 2,331 | 2,331 | 2,333 | 2,337 | 2,345 |
| New and used car dealers | 1,049 | 1,052 | 1,051 | 1,052 | 1,053 | 1,055 | 1,056 | 1,056 | 1,056 | 1,056 | 1,056 | 1,058 | 1,062 |
| Apparel and accessory stores | 1,095 | 1,095 | 1,093 | 1,098 | 1,100 | 1,103 | 1,105 | 1,103 | 1,108 | 1,100 | 1,098 | 1,104 | 1,105 |
| Furniture and home furnishings stores | 1,000 | 1,003 | 1,010 | 1,013 | 1,019 | 1,023 | 1,029 | 1,035 | 1,039 | 1,043 | 1,048 | 1,045 | 1,052 |
| Eating and drinking places ................ | 7.637 | 7,646 | 7,616 | 7,633 | 7.641 | 7,630 | 7,666 | 7,682 | 7,685 | 7,694 | 7,645 | 7,680 | 7,713 |
| Miscellaneous retail establishments | 2,782 | 2,797 | 2,804 | 2,816 | 2,826 | 2,836 | 2,857 | 2,862 | 2,864 | 2,867 | 2,874 | 2,878 | 2,896 |
| Finance, insurance, and real estate .... | 7,064 | 7,072 | 7,095 | 7,110 | 7,125 | 7,151 | 7,172 | 7,194 | 7,213 | 7,232 | 7,258 | 7,286 | 7,306 |
| Finance .......................................... | 3,397 | 3,402 | 3,413 | 3,423 | 3,434 | 3,451 | 3,463 | 3,478 | 3,485 | 3,496 | 3,512 | 3,519 | 3,535 |
| Depository institutions | 2,024 | 2.025 | 2,027 | 2,028 | 2.027 | 2,032 | 2,035 | 2,040 | 2,037 | 2,039 | 2,041 | 2,040 | 2,044 |
| Commercial banks | 1,459 | 1,458 | 1,459 | 1,460 | 1,459 | 1,462 | 1,464 | 1,466 | 1,463 | 1,464 | 1,465 | 1,461 | 1.463 |
| Savings institutions | 262 | 262 | 262 | 261 | 261 | 261 | 261 | 263 | 262 | 262 | 262 | 262 | 264 |
| Nondepository institutions | 563 | 565 | 567 | 571 | 576 | 581 | 582 | 586 | 589 | 593 | 602 | 605 | 612 |
| Mortgage bankers and brokers | 250 | 250 | 251 | 253 | 256 | 260 | 261 | 262 | 264 | 270 | 276 | 278 | 283 |
| Security and commodity brokers. | 591 | 592 | 598 | 602 | 606 | 611 | 616 | 620 | 625 | 629 | 633 | 636 | 639 |
| Holding and other investment offices | 219 | 220 | 221 | 222 | 225 | 227 | 230 | 232 | 234 | 235 | 236 | 238 | 240 |
| Insurance ........................................ | 2,249 | 2,255 | 2,259 | 2,265 | 2,267 | 2,275 | 2,281 | 2,291 | 2,293 | 2,297 | 2,302 | 2,311 | 2,317 |
| Insurance carriers | 1,527 | 1.531 | 1,534 | 1,538 | 1,540 | 1,546 | 1,550 | 1,558 | 1,558 | 1,560 | 1,566 | 1,574 | 1,579 |
| Insurance agents, brokers, and service $\qquad$ | 722 | 724 | 725 | 727 | 727 | 729 | 731 | 733 | 735 | 737 | 736 | 737 | 738 |
| Feal estate | 1,418 | 1,415 | 1,423 | 1,422 | 1,424 | 1,425 | 1,428 | 1,425 | 1,435 | 1,439 | 1,444 | 1,456 | 1,454 |
| Services ${ }^{1}$ | 35,887 | 35,992 | 36,148 | 36,225 | 36,363 | 36,484 | 36,638 | 36,795 | 36,932 | 37,020 | 37,106 | 37,195 | 37,346 |
| Agricultrual services | 677 | 678 | 682 | 685 | 690 | 692 | 694 | 694 | 696 | 696 | 695 | 708 | 700 |
| Hotels and other lodging places | 1,741 | 1,738 | 1,738 | 1.740 | 1,745 | 1,754 | 1,754 | 1,754 | 1,762 | 1,756 | 1,755 | 1,768 | 1,768 |
| Personal services ...... | 1,184 | 1,180 | 1,179 | 1,180 | 1,180 | 1,181 | 1,185 | 1,178 | 1,176 | 1,177 | 1,178 | 1,182 | 1,190 |
| Business services | 7,931 | 7,987 | 8,035 | 8,055 | 8,112 | 8,147 | 8,226 | 8,294 | 8,351 | 8,384 | 8,412 | 8,417 | 8,491 |
| Services to buildings | 936 | 938 | 940 | 937 | 947 | 948 | 947 | 955 | 960 | 961 | 966 | 963 | 972 |
| Personnel supply services | 2,951 | 2,975 | 3,004 | 2,991 | 3,013 | 3,030 | 3,074 | 3,111 | 3,139 | 3,152 | 3,149 | 3,138 | 3,165 |
| Help supply services | 2,631 | 2,652 | 2,673 | 2,657 | 2,686 | 2,694 | 2,741 | 2,783 | 2,804 | 2,820 | 2,819 | 2,802 | 2,828 |
| Computer and data processing services $\qquad$ | 1,391 | 1,409 | 1.420 | 1,433 | 1,448 | 1,462 | 1,475 | 1,493 | 1,507 | 1,522 | 1,538 | 1,560 | 1.577 |
| Auto repair, services, and parking | 1,123 | 1,120 | 1,125 | 1,127 | 1,131 | 1,134 | 1,138 | 1,143 | 1,147 | 1,144 | 1,145 | 1,148 | 1,152 |
| Miscellaneous repair services | 375 | 376 | 377 | 378 | 378 | 378 | 379 | 380 | 381 | 382 | 382 | 383 | 384 |
| Motion pictures ................................. | 541 | 546 | 548 | 554 | 556 | 556 | 557 | 564 | 563 | 569 | 565 | 563 | 559 |
| Amusement and recreation services .. | 1,564 | 1.571 | 1.582 | 1,580 | 1.593 | 1.597 | 1,610 | 1.625 | 1,633 | 1,641 | 1,647 | 1.658 | 1,665 |
| Health services | 9,701 | 9,707 | 9,731 | 9,749 | 9,766 | 9,789 | 9,807 | 9,827 | 9,837 | 9,852 | 9,867 | 9,872 | 9,889 |
| Offices and clinics of medical doctors | 1,738 | 1,739 | 1,745 | 1,747 | 1,754 | 1,764 | 1,772 | 1,779 | 1,784 | 1,788 | 1,796 | 1,802 | 1,809 |
| Nursing and personal care facilities .... | 1,757 | 1,755 | 1,756 | 1,757 | 1,757 | 1,759 | 1,760 | 1,761 | 1,759 | 1,761 | 1,761 | 1,760 | 1,760 |
| Hospitals ......................... | 3,857 | 3,863 | 3,871 | 3.878 | 3,885 | 3,894 | 3,901 | 3,908 | 3,916 | 3,920 | 3,925 | 3,938 | 3,946 |
| Home health care services | 713 | 714 | 716 | 716 | 716 | 715 | 714 | 713 | 706 | 702 | 698 | 686 | 683 |
| Legal services | 944 | 945 | 948 | 949 | 953 | 956 | 959 | 963 | 964 | 967 | 970 | 972 | 975 |
| Educational services | 2,097 | 2,108 | 2,122 | 2,128 | 2,136 | 2,146 | 2,155 | 2,160 | 2,169 | 2,179 | 2,189 | 2,196 | 2,212 |
| Social services ............. | 2,501 | 2.510 | 2,531 | 2,532 | 2,541 | 2,546 | 2,552 | 2,561 | 2.570 | 2,577 | 2,587 | 2,595 | 2,606 |
| Child day care services | 569 | 570 | 572 | 578 | 572 | 572 | 571 | 572 | 575 | 574 | 575 | 576 | 574 |
| Fesidential care ............................... | 712 | 716 | 719 | 720 | 726 | 728 | 730 | 736 | 736 | 741 | 744 | 746 | 748 |
| Museums and botanical and zoological gardens | 90 | 90 | 90 | 90 | 90 | 91 | 91 | 91 | 91 | 92 | 92 | 92 | 91 |
| Membership organizations ................. | 2,250 | 2,250 | 2,253 | 2,252 | 2,250 | 2,252 | 2,247 | 2,255 | 2,260 | 2,261 | 2,263 | 2,266 | 2,265 |
| Engineering and management services | 2,974 | 2,993 | 3,013 | 3,032 | 3,048 | 3,070 | 3,089 | 3,111 | 3,137 | 3,148 | 3,164 | 3,179 | 3,204 |
| Engineering and architectural services | 862 | 866 | 870 | 873 | 876 | 881 | 885 | 892 | 897 | 899 | 904 | 911 | 915 |
| Management and public relations ....... | 931 | 940 | 949 | 959 | 962 | 970 | 975 | 988 | 1,004 | 1,007 | 1,012 | 1,012 | 1,028 |
| Government | 19,514 | 19,543 | 19,592 | 19,609 | 19,607 | 19,646 | 19,662 | 19,680 | 19,686 | 19,720 | 19,728 | 19,764 | 19,805 |
| Federal | 2,704 | 2,697 | 2,691 | 2,691 | 2,684 | 2,690 | 2,689 | 2,688 | 2,670 | 2,676 | 2,671 | 2,675 | 2,672 |
| Federal, except Postal Service | 1,850 | 1,843 | 1,839 | 1,833 | 1,827 | 1,829 | 1,826 | 1,819 | 1,822 | 1,819 | 1,815 | 1,815 | 1,811 |
| State | 4,583 | 4,586 | 4,617 | 4,602 | 4,604 | 4,609 | 4.613 | 4,611 | 4,613 | 4,613 | 4,619 | 4,620 | 4,632 |
| Education | 1,904 | 1,910 | 1,933 | 1,917 | 1,921 | 1,922 | 1,923 | 1,924 | 1,924 | 1,924 | 1,928 | 1,926 | 1,931 |
| Other State government. | 2,679 | 2,676 | 2,684 | 2,685 | 2,683 | 2,687 | 2,690 | 2,687 | 2,689 | 2,689 | 2,691 | 2,694 | 2,701 |
| Local | 12,227 | 12,260 | 12,284 | 12,316 | 12,319 | 12,347 | 12,360 | 12,381 | 12,403 | 12,431 | 12,438 | 12,469 | 12,501 |
| Education | 6,874 | 6,894 | 6,913 | 6,933 | 6,941 | 6,947 | 6,959 | 6,965 | 6,980 | 6,999 | 7,003 | 7,023 | 7,051 |
| Other local government .................... | 5,353 | 5,366 | 5,371 | 5,383 | 5,378 | 5,400 | 5,401 | 5,416 | 5.423 | 5,432 | 5,435 | 5,446 | 5,450 |

1 Includes other industries, not shown separately.
$\mathrm{P}=$ preliminary.
NOTE: Data have been revised to reflect March 1997 benchmarks and
recomputed seasonal adjustment factors. See the article in this issue for additional information.

ESTABLISHMENT DATA
WOMEN EMPLOYEES
SEASONALLY ADJUSTED
B-4. Women employees on nonfarm payrolls by major industry and manufacturing group, seasonally adjusted
(in thousands)

| Industry | 1997 |  |  |  |  |  |  |  |  |  | 1998 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. |
| Total .................................................... | 58,939 | 59,083 | 59,228 | 59,335 | 59,506 | 59,564 | 59,663 | 59,810 | 59,974 | 60,114 | 60,220 | 60,308 | 60,380 |
| Total private .......................................... | 48,153 | 48,285 | 48,398 | 48,485 | 48,621 | 48,614 | 48,763 | 48,884 | 49,026 | 49,142 | 49,239 | 49,306 | 49,369 |
| Goods-producing | 6,680 | 6,688 | 6,694 | 6,703 | 6,705 | 6,711 | 6,717 | 6,732 | 6,741 | 6,759 | 6,766 | 6,767 | 6,770 |
| Mining | 81 | 81 | 82 | 82 | 82 | 83 | 82 | 82 | 82 | 83 | 83 | 83 | 83 |
| Construction | 624 | 627 | 630 | 632 | 634 | 636 | 639 | 643 | 645 | 648 | 650 | 654 | 655 |
| Manufacturing | 5,975 | 5,980 | 5,982 | 5,989 | 5,989 | 5,992 | 5,996 | 6,007 | 6,014 | 6,028 | 6,033 | 6,030 | 6,032 |
| Durable goods .......................................... | 2,888 | 2,894 | 2,900 | 2,909 | 2,915 | 2,926 | 2,932 | 2,945 | 2,952 | 2,962 | 2,973 | 2,979 | 2,982 |
| Lumber and wood products ......................... | 137 | 137 | 138 | 137 | 138 | 138 | 138 | 138 | 139 | 139 | 140 | 141 | 141 |
| Furniture and fixtures | 160 | 160 | 160 | 160 | 160 | 160 | 160 | 161 | 161 | 162 | 163 | 164 | 165 |
| Stone, clay, and glass products .................... | 104 | 104 | 104 | 104 | 104 | 105 | 105 | 105 | 106 | 105 | 107 | 107 | 107 |
| Primary metal industries .............................. | 102 | 102 | 102 | 103 | 103 | 103 | 103 | 103 | 104 | 104 | 104 | 104 | 104 |
| Fabricated metal products | 324 | 325 | 326 | 327 | 326 | 328 | 329 | 330 | 330 | 331 | 333 | 334 | 334 |
| Industrial machinery and equipment .............. | 468 | 469 | 472 | 473 | 475 | 477 | 478 | 481 | 482 | 484 | 485 | 486 | 485 |
| Electronic and other electrical equipment ....... | 691 | 692 | 692 | 695 | 697 | 698 | 702 | 706 | 708 | 712 | 714 | 716 | 716 |
| Transportation equipment . | 380 | 382 | 383 | 387 | 387 | 393 | 394 | 397 | 399 | 401 | 400 | 401 | 402 |
| Instruments and related products ................. | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) |
| Miscellaneous manufacturing ....................... | 172 | 172 | 172 | 172 | 173 | 172 | 171 | 171 | 169 | 170 | 171 | 171 | 171 |
| Nondurable goods | 3.087 | 3,086 | 3,082 | 3,080 | 3,074 | 3,066 | 3,064 | 3,062 | 3,062 | 3,066 | 3,060 | 3,051 | 3,050 |
| Food and kindred products | 557 | 557 | 556 | 557 | 555 | 554 | 554 | 555 | 557 | 558 | 559 | 559 | 559 |
| Tobacco products | 13 | 13 | 13 | 13 | 13 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Textile mill products ................................... | 289 | 288 | 287 | 287 | 288 | 284 | 285 | 284 | 283 | 283 | 281 | 280 | 278 |
| Apparel and other textile products | 623 | 620 | 615 | 612 | 609 | 608 | 602 | 598 | 594 | 594 | 589 | 582 | 583 |
| Paper and allied products ............................ | 166 | 166 | 167 | 166 | 166 | 166 | 167 | 167 | 168 | 168 | 168 | 168 | 168 |
| Printing and publishing ............................... | 696 | 699 | 701 | 703 | 704 | 703 | 703 | 704 | 705 | 705 | 706 | 705 | 706 |
| Chemicals and allied products ..................... | 330 | 330 | 330 | 330 | 329 | 329 | 330 | 330 | 330 | 331 | 330 | 331 | 330 |
| Petroleurn and coal products ...... | 25 | 25 | 25 | 25 | 25 | 24 | 24 | 24 | 24 | 25 | 24 | 24 | 24 |
| Rubber and misc. plastics products ............... | 338 | 338 | 339 | 339 | 337 | 339 | 340 | 341 | 342 | 343 | 345 | 344 | 344 |
| Leather and leather products ....................... | 50 | 50 | 49 | 48 | 48 | 47 | 46 | 46 | 46 | 46 | 45 | 45 | 45 |
| Service-producing ......................................... | 52,259 | 52,395 | 52,534 | 52,632 | 52,801 | 52,853 | 52,946 | 53,078 | 53,233 | 53,355 | 53,454 | 53,541 | 53,610 |
| Transportation and public utilities ................ | 1,938 | 1,941 | 1,945 | 1,945 | 1,943 | 1,900 | 1,943 | 1,944 | 1,944 | 1,939 | 1,946 | 1,948 | 1,949 |
| Wholesale trade | 2,047 | 2,050 | 2,055 | 2,054 | 2,059 | 2,060 | 2,058 | 2,066 | 2,066 | 2,067 | 2,078 | 2,077 | 2,078 |
| Retail trade | 11,539 | 11,549 | 11,560 | 11.576 | 11,580 | 11,602 | 11,614 | 11,632 | 11,677 | 11,700 | 11,713 | 11,712 | 11,707 |
| Finance, insurance, and real estate ............... | 4,430 | 4,449 | 4,450 | 4,459 | 4,469 | 4,478 | 4,486 | 4,498 | 4,511 | 4,526 | 4,539 | 4,546 | 4,563 |
| Services ...................................................... | 21,519 | 21,616 | 21,694 | 21,748 | 21,865 | 21,863 | 21,945 | 22,012 | 22,087 | 22,151 | 22,197 | 22,256 | 22,302 |
| Government ............................................... | 10,786 | 10,798 | 10,830 | 10,850 | 10,885 | 10,950 | 10,900 | 10,926 | 10,948 | 10,972 | 10,981 | 11,002 | 11,011 |
| Federal | 1,149 | 1,147 | 1.146 | 1,145 | 1,143 | 1,143 | 1,135 | 1,142 | 1,144 | 1,154 | 1,141 | 1,140 | 1,137 |
| State | 2,323 | 2,327 | 2,335 | 2,339 | 2,357 | 2,354 | 2,351 | 2,360 | 2,365 | 2,363 | 2,365 | 2,367 | 2,371 |
| Local ...................................................... | 7,314 | 7,324 | 7,349 | 7,366 | 7,385 | 7,453 | 7,414 | 7,424 | 7,439 | 7,455 | 7,475 | 7,495 | 7,503 |

1 This series is not published seasonally adjusted because the seasonal component, which is small relative to the trend-cycle and irregular components, cannot be separated with sufficient precision.

NOTE: Data have been revised to reflect March 1997 benchmarks and recomputed seasonal adjustment factors. See the article in this issue for additional information.

B-5. Production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolis by major industry and manufacturing group, seasonally adjusted
(In thousands)

| Industry | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.p | Mayp |
| Total private .......................................... | 84,312 | 84,455 | 84,670 | 84,567 | 84,966 | 85,176 | 85,441 | 85,705 | 85,947 | 86,073 | 86,113 | 86,255 | 86,503 |
| Goods-producing | 17,723 | 17,729 | 17,744 | 17,773 | 17,787 | 17,818 | 17,870 | 17,947 | 18,039 | 18,037 | 17,996 | 18,032 | 17,996 |
| Mining | 449 | 446 | 447 | 447 | 448 | 448 | 449 | 449 | 450 | 450 | 445 | 440 | 441 |
| Construction | 4.400 | 4,395 | 4,408 | 4,418 | 4,424 | 4,425 | 4,451 | 4,497 | 4,566 | 4,563 | 4,538 | 4,591 | 4,573 |
| Manufacturing | 12,874 | 12,888 | 12,889 | 12,908 | 12,915 | 12,945 | 12,970 | 13,001 | 13,023 | 13,024 | 13,013 | 13,001 | 12,982 |
| Durable goods | 7,504 | 7,524 | 7,536 | 7,573 | 7,573 | 7,598 | 7,621 | 7,644 | 7,669 | 7,676 | 7,669 | 7,664 | 7,648 |
| Lumber and wood products | 654 | 653 | 653 | 653 | 653 | 654 | 655 | 658 | 660 | 660 | 659 | 659 | 659 |
| Furniture and fixtures ..... | 404 | 405 | 407 | 405 | 405 | 406 | 408 | 410 | 412 | 413 | 415 | 418 | 419 |
| Stone, clay, and glass products | 429 | 428 | 431 | 431 | 431 | 433 | 434 | 436 | 441 | 441 | 436 | 436 | 437 |
| Primary metal industries | 553 | 553 | 554 | 558 | 559 | 559 | 560 | 562 | 564 | 564 | 565 | 563 | 562 |
| Fabricated metal products | 1,109 | 1,111 | 1,110 | 1,116 | 1,117 | 1,120 | 1,122 | 1,125 | 1,130 | 1,132 | 1.131 | 1,132 | 1,128 |
| Industriad machinery and equipment | 1,355 | 1,361 | 1,362 | 1,369 | 1,370 | 1,379 | 1,382 | 1,386 | 1,389 | 1,391 | 1,391 | 1,389 | 1,388 |
| Electronic and other electrical equipment ....... | 1,060 | 1,064 | 1,068 | 1,072 | 1,075 | 1,078 | 1,080 | 1,086 | 1,089 | 1,087 | 1,085 | 1,083 | 1,081 |
| Transportation equipment ........................... | 1,240 | 1,24B | 1,251 | 1,270 | 1,264 | 1,270 | 1,283 | 1,280 | 1,279 | 1,283 | 1,281 | 1,277 | 1,269 |
| Motor vehicles and equipment .................... | 769 | 776 | 777 | 792 | 784 | 786 | 791 | 790 | 787 | 788 | 784 | 783 | 776 |
| Instruments and related products | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| Miscellaneous manufacturing ...................... | 275 | 274 | 274 | 274 | 272 | 272 | 270 | 272 | 273 | 273 | 273 | 274 | 271 |
| Nondurable goods | 5,370 | 5,364 | 5,353 | 5,335 | 5,342 | 5,347 | 5,349 | 5,357 | 5,354 | 5,348 | 5,344 | 5,337 | 5,334 |
| Food and kindred products .......................... | 1,255 | 1,255 | 1,252 | 1,248 | 1,254 | 1,255 | 1,260 | 1,263 | 1,265 | 1,267 | 1,267 | 1,271 | 1,274 |
| Tobacco products ... | 32 | 32 | 32 | 30 | 31 | 32 | 33 | 32 | 32 | 32 | 32 | 33 | 32 |
| Textile mill products... | 523 | 522 | 523 | 518 | 519 | 520 | 518 | 519 | 516 | 514 | 513 | 513 | 512 |
| Apparel and other textile products ................ | 680 | 678 | 674 | 670 | 665 | 663 | 659 | 656 | 652 | 645 | 643 | 632 | 625 |
| Paper and allied products | 523 | 522 | 522 | 520 | 521 | 522 | 523 | 524 | 525 | 525 | 525 | 523 | 521 |
| Printing and publishing | 852 | 853 | 851 | 849 | 847 | 849 | 849 | 850 | 850 | 848 | 845 | 846 | 845 |
| Chemicals and allied products ...................... | 570 | 570 | 570 | 570 | 573 | 575 | 576 | 578 | 580 | 582 | 583 | 584 | 594 |
| Petroleum and coal products ....................... | 93 | 92 | 92 | 92 | 92 | 91 | 91 | 92 | 89 | 89 | 89 | 89 | 88 |
| Rubber and misc. plastics products ............... | 771 | 771 | 769 | 771 | 773 | 773 | 774 | 777 | 780 | 781 | 783 | 783 | 781 |
| Leather and leather products ....................... | 71 | 69 | 68 | 67 | 67 | 67 | 66 | 66 | 65 | 65 | 64 | 83 | 62 |
| Service-producing ........................................ | 66,589 | 66,726 | 66,926 | 66,794 | 67,179 | 67,358 | 67,571 | 67,758 | 67,908 | 68,036 | 68,117 | 68,223 | 68,507 |
| Transportation and public utilities ................ | 5,379 | 5,380 | 5,378 | 5,199 | 5,373 | 5,375 | 5,370 | 5,367 | 5,374 | 5,372 | 5,375 | 5,375 | 5,406 |
| Wholesale trade | 5,342 | 5,344 | 5,361 | 5,369 | 5,371 | 5,382 | 5,392 | 5,407 | 5,426 | 5,431 | 5,436 | 5,446 | 5,448 |
| Retail trade | 19,332 | 19,356 | 19,359 | 19,398 | 19,422 | 19,463 | 19,539 | 19,570 | 19,585 | 19,605 | 19,582 | 19,587 | 19,693 |
| Finance, insurance, and real estate ............... | 5,160 | 5,166 | 5,182 | 5,191 | 5,202 | 5,223 | 5,245 | 5,264 | 5,287 | 5,307 | 5,329 | 5,350 | 5,361 |
| Services | 31,376 | 31.480 | 31,646 | 31,637 | 31,811 | 31,915 | 32,025 | 32,150 | 32,236 | 32,321 | 32,395 | 32,465 | 32.599 |

[^17]cannot be separated with sufficient precision.
$\mathrm{P}=$ preliminary.
NOTE: Data have been revised to reflect March 1997 benchmarks and recomputed seasonal adjustment factors. See the article in this issue for additional information.

## B-6. Diffusion indexes of employment change, seasonally adjusted

(Percent)

| Time span | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sept. | Oct. | Nov. | Dec. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Private nonfarm payrolls, 356 industries ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Over 1-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 ....................... | 59.3 | 60.5 | 67.0 | 64.5 | 58.6 | 63.3 | 63.8 | 61.7 | 61.5 | 60.4 | 64.0 | 61.7 |
| 1995 ....................... | 62.5 | 60.0 | 54.9 | 55.6 | 47.8 | 55.6 | 54.8 | 59.0 | 58.0 | 55.8 | 54.5 | 58.8 |
| 1996 ....................... | 50.8 | 64.6 | 59.6 | 56.6 | 62.8 | 61.0 | 57.3 | 61.5 | 56.0 | 62.5 | 62.2 | 60.7 |
| 1997. | 58.0 | 61.4 | 59.8 | 63.6 | 60.1 | 54.6 | 61.1 | 59.1 | 60.0 | 64.3 | 62.4 | 64.9 |
| 1998 ........................ | 63.8 | 58.7 | 59.6 | P 56.3 | P 54.5 |  |  |  |  |  |  |  |
| Over 3-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 ....................... | 64.5 | 69.2 | 69.9 | 68.4 | 66.6 | 67.1 | 69.0 | 69.5 | 66.2 | 65.6 | 66.6 | 66.3 |
| 1995 ....................... | 63.6 | 61.4 | 59.4 | 53.1 | 55.2 | 53.2 | 59.7 | 60.1 | 59.1 | 58.0 | 56.6 | 54.6 |
| 1996 | 61.9 | 62.8 | 64.0 | 63.8 | 63.5 | 64.9 | 64.2 | 61.5 | 63.9 | 64.2 | 67.0 | 66.6 |
| 1997 ....................... | 64.9 | 63.3 | 65.6 | 66.2 | 63.9 | 61.2 | 60.1 | 65.9 | 67.4 | 68.1 | 70.8 | 71.9 |
| 1998 ........................ | 68.4 | 67.3 | P64.3 | P 60.1 |  |  |  |  |  |  |  |  |
| Over 6-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 ....................... | 70.9 | 69.9 | 69.7 | 71.2 | 70.2 | 69.8 | 69.8 | 70.2 | 68.7 | 67.4 | 66.7 | 65.4 |
| 1995 ....................... | 66.4 | 60.1 | 59.1 | 57.3 | 59.0 | 60.1 | 57.6 | 60.4 | 59.7 | 59.3 | 61.1 | 63.2 |
| 1996 | 62.8 | 65.4 | 64.7 | 65.7 | 66.2 | 65.0 | 66.4 | 66.0 | 66.2 | 67.6 | 66.9 | 66.3 |
| 1997 ....................... | 67.6 | 67.0 | 65.3 | 64.9 | 65.6 | 67.3 | 68.0 | 67.3 | 70.6 | 72.3 | 73.3 | 72.6 |
| 1998 ........................ | P 72.2 | P 69.5 |  |  |  |  |  |  |  |  |  |  |
| Over 12-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 ......... | 70.2 | 71.6 | 71.8 | 71.8 | 72.1 | 71.8 | 71.5 | 72.1 | 70.1 | 69.5 | 66.6 | 65.0 |
| 1995 ....................... | 63.6 | 62.4 | 62.6 | 63.3 | 61.7 | 61.9 | 58.7 | 62.2 | 62.2 | 61.5 | 63.5 | 65.4 |
| 1996 ....................... | 64.5 | 66.7 | 64.5 | 65.6 | 68.5 | 67.3 | 67.7 | 66.4 | 68.0 | 69.9 | 69.1 | 68.3 |
| 1998 .. | 69.8 | 67.6 | 69.2 | 70.1 | 69.8 | 69.8 | 71.2 | 71.2 | 71.1 | P 72.3 | P 71.6 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Manufacturing payrolls, 139 industries ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Over 1-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 ....................... | 56.8 | 56.5 | 60.1 | 59.0 | 53.6 | 58.3 | 59.0 | 55.8 | 53.6 | 56.5 | 58.3 | 56.8 |
| 1995 ....................... | 54.7 | 54.3 | 46.4 | 53.2 | 42.4 | 44.2 | 46.4 | 49.6 | 48.6 | 52.2 | 45.3 | 48.2 |
| 1996 | 42.8 | 54.7 | 48.2 | 42.1 | 55.4 | 50.7 | 47.1 | 55.4 | 47.8 | 52.9 | 54.3 | 55.4 |
| 1997 ....................... | 49.3 | 54.3 | 50.0 | 56.8 | 51.4 | 52.2 | 50.4 | 48.9 | 56.5 | 57.2 | 56.1 | 60.8 |
| 1998 ....................... | 55.8 | 51.8 | 52.5 | P 47.8 | P 43.5 |  |  |  |  |  |  |  |
| Over 3-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 | 60.4 | 63.7 | 63.7 | 60.4 | 57.6 | 59.7 | 61.9 | 56.8 | 54.3 | 55.4 | 60.8 | 59.0 |
| 1995 ....................... | 56.8 | 50.0 | 47.8 | 42.1 | 43.2 | 38.8 | 40.6 | 43.5 | 48.2 | 47.1 | 45.3 | 39.9 |
| 1996. | 43.9 | 46.8 | 46.0 | 47.5 | 46.4 | 49.3 | 51.4 | 50.0 | 53.6 | 51.1 | 57.6 | 54.7 |
| 1997 ....................... | 54.3 | 49.3 | 54.3 | 54.0 | 55.4 | 50.4 | 47.5 | 52.2 | 57.9 | 62.6 | 64.7 | 65.5 |
| 1998 ....................... | 60.1 | 59.0 | P 51.1 | P 45.3 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1995 ....................... | 55.4 | 46.4 | 42.8 | 40.3 | 41.4 | 42.4 | 41.0 | 41.0 | 43.9 | 43.2 | 43.2 | 45.3 |
| 1996 ....................... | 42.1 | 45.3 | 46.4 | 47.1 | 48.2 | 48.6 | 51.1 | 50.4 | 52.9 | 52.9 | 53.2 | 52.2 |
| 1997 ....................... | 54.3 | 54.3 | 51.4 | 52.9 | 51.4 | 55.0 | 56.8 | 57.6 | 60.4 | 64.4 | 67.6 | 65.8 |
| 1998 ....................... | P 62.2 | P 55.8 |  |  |  |  |  |  |  |  |  |  |
| Over 12-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 | 57.9 | 58.6 | 60.8 | 60.8 | 60.8 | 63.3 | 59.4 | 60.1 | 57.2 | 56.5 | 50.4 | 49.6 |
| 1995 ....................... | 46.0 | 44.2 | 46.0 | 47.8 | 41.0 | 41.7 | 38.5 | 38.8 | 36.3 | 38.5 | 39.9 | 44.6 |
| 1996 ....................... | 43.5 | 47.5 | 45.3 | 45.3 | 50.4 | 49.6 | 50.4 | 48.6 | 51.1 | 55.0 | 54.0 | 51.8 |
| 1997 ....................... | 57.2 | 52.5 | 54.7 | 56.5 | 57.9 | 57.6 | 58.6 | 58.6 | 60.4 | P 59.7 | P 57.6 |  |
| 1998 ........................ |  |  |  |  |  |  |  |  |  |  |  |  |

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.
$\mathrm{P}=$ preliminary.
NOTE: Figures are the percent of industries with employment
increasing plus one-half of the industries with unchanged employment, where 50 percent indicates an equal balance between industries with increasing and decreasing employment. Data have been revised to reflect March 1997 benchmarks and recomputed seasonal adjustment factors. See the article in this issue for additional information.

## B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ${ }^{\text {P }}$ |
|  | Total ${ }^{\prime}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| Alabama | 1,859.6 | 1,864.2 | 1,864.9 | 1,869.9 | 1,869.5 | 1,869.5 | 1,870.7 | 1,871.0 | 1,871.9 | 1,876.0 | 1,877.2 | 1,879.4 | 1,877.8 |
| Alaska | 267.7 | 269.2 | 268.9 | 270.2 | 269.5 | 269.0 | 268.1 | 268.8 | 268.3 | 270.2 | 273.1 | 273.7 | 274.2 |
| Arizona | 1,961.2 | 1,968.7 | 1,975.3 | 1,972.4 | 1,983.3 | 1,994.0 | 2,0005 | 2,011.8 | $2,021.9$ | 2,031.5 | 2,037.9 | 2,045.6 | 2,048.0 |
| Arkansas | 1,100.4 | 1.101 .6 | 1,100.3 | 1,103.4 | 1,106.8 | 1,106.1 | 1,107.2 | 1,110.6 | 1,111.6 | 1,110.5 | 1,113.1 | 1,118.9 | 1,123.5 |
| California | 13,089.3 | 13,118. 1 | 13,150.0 | 13,203.2 | 13,224.5 | 13,277.7 | 13,318.5 | 13,367.0 | 13,398.3 | 13,401.2 | 13,439.9 | 13,485.6 | 13,517.6 |
| Colerado $\qquad$ | 1,962.7 | 1,971.9 | 1,977.8 | 1,989.2 | 1,985.8 | 1,996.8 | 2,001.8 | 2,003.3 | 2,009.5 | 2,017.8 | 2,019.9 | 2,023.9 | 2,021.0 |
| Connecticut | 1,608.8 | 1,609.3 | 1,611.1 | 1,611.9 | 1,616.1 | 1,621.7 | 1,627.2 | 1,634.6 | 1,642.6 | 1,639.6 | 1,641.2 | 1,639.6 | 1,642.2 |
| Delaware | 384.8 | 385.1 | 386.2 | 388.1 | 390.1 | 391.4 | 392.5 | 393.6 | 395.5 | 394.6 | 396.6 | 398.0 | 398.2 |
| District of Columbia | 615.9 | 613.0 | 612.9 | 619.1 | 614.7 | 614.8 | 612.9 | 610.8 | 610.4 | 613:1 | 609.4 | 610.9 | 609.9 |
| Florida | 6,371.6 | 6,393.5 | 6,410.8 | 6,439.7 | 6.458.7 | 6,487.4 | 6,508.8 | 6,534.1 | 6,551.6 | 6,566.0 | 6,577.9 | 6,604.1 | 6,622.5 |
| Georgia | 3,585.0 | 3.593.2 | 3,593.8 | 3,613.6 | 3,626.1 | 3,649.9 | 3,664.2 | 3,674.8 | 3,690.0 | 3,690.7 | 3,707.4 | 3,714.9 | 3,722.2 |
| Hawaii | 531.5 | 531.2 | 531.6 | 531.3 | 533.0 | 534.6 | 533.4 | 532.8 | 530.5 | 528.6 | 528.4 | 529.0 | 528.2 |
| Idaho | 506.2 | 508.2 | 508.8 | 512.6 | 511.5 | 510.2 | 512.9 | 513.5 | 514.0 | 515.1 | 516.1 | 516.7 | 516.2 |
| Illinois | 5,743.2 | 5,762.1 | 5,759.6 | 5,784.6 | 5,783.4 | 5,795.4 | 5,816.0 | 5,823.5 | 5,833.8 | 5,837.8 | 5,833.2 | 5,834.5 | 5,849.3 |
| Indiana | 2,857.1 | 2,859.1 | 2,857.9 | 2,861.8 | 2,862.4 | 2,866.2 | 2,868.9 | 2,873.9 | 2,884.0 | 2,874.6 | 2,878.8 | 2,880.0 | 2,890.2 |
| lowa | 1,396.6 | 1,404.9 | 1,406.5 | 1,407.8 | 1,404.7 | 1,406.4 | 1,419.1 | 1,416.9 | 1,419.2 | 1,423.0 | 1,426.1 | 1,429.2 | 1,435.4 |
| Kansas | 1,259.0 | 1,266.1 | 1,268.4 | 1,270. 1,7 | 1,274.3 | 1,275.6 | 1,281.9 | 1,282.8 | 1,287.4 | 1,291.5 | 1,294.4 | 1,294.4 | 1,298.0 |
| Kentucky | 1,707.7 | 1,706.6 | 1,711.1 | 1,717.1 | 1,718.6 | 1.722 .5 | 1,720.3 | 1,726.2 | 1,732.0 | 1,738.5 | 1,735.4 | 1,738.0 | 1,744.2 |
| Louisiana | 1,840.2 | 1,841.6 | 1,843.1 | 1,854.0 | 1,855.1 | 1.858 .5 | 1,863.9 | 1,867.7 | 1,869.8 | 1,870.5 | 1,875.8 | 1,879.5 | 1,878.4 |
| Maine | 548.6 | 550.0 | 552.6 | 554.6 | 555.2 | 557.1 | 558.5 | 560.8 | 561.4 | 558.1 | 560.8 | 561.0 | 561.1 |
| Maryland | 2,253.9 | 2,258.0 | 2,259.1 | 2,258.9 | 2,255.5 | 2,258.2 | 2,263.3 | 2,272.1 | 2,273.8 | 2,282.0 | 2,282.4 | 2,277.2 | 2,273.2 |
| Massachusetts | 3,099.0 | 3,106.7 | 3,110.8 | 3,121.3 | 3.125 .8 | 3,134.4 | 3,144.8 | 3,157.6 | 3,168.4 | 3,173.0 | 3,185.5 | 3,190.6 | 3,197.6 |
| Michigan | 4,439.2 | 4,452.6 | 4,442.4 | 4,447.0 | 4,451.3 | 4,462.8 | 4,473.4 | 4,471.1 | 4,489.6 | 4,495.7 | 4,506.7 | 4,503.3 | 4,518.2 |
| Minnesota | $2,468.4$ | 2.476 .9 | 2.482 .6 | 2.491 .9 | 2,496.0 | 2,498.1 | 2,504.5 | 2,512.6 | $2,518.5$ | 2,514.1 | 2,522.3 | 2,530.1 | 2,528.1 |
| Mississippi | 1,101.5 | 1,104.4 | 1,100.7 | 1,109.4 | 1,111.0 | 1,110.5 | 1,112.7 | 1.113.1 | 1,112.6 | 1,117.6 | 1,120.9 | 1.117.2 | 1,121.6 |
| Missouri | 2,626.3 | 2,634.2 | 2,640.3 | 2,637.9 | 2,643.2 | 2,645.0 | 2,649.5 | 2,652.0 | 2,658.9 | 2,664.4 | 2,662.9 | 2,651.6 | 2,663.4 |
| Montana | 362.9 | 365.2 | 363.0 | 367.5 | 367.9 | 368.2 | 368.6 | 369.0 | 370.3 | 368.7 | 370.6 | 370.2 | 369.8 |
| Nebraska | 848.7 | 850.8 | 853.3 | 861.0 | 859.3 | 861.8 | 864.0 | 866.4 | 868.6 | 874.0 | 878.5 | 873.0 | 877.2 |
| Nevada ..... | 880.4 | 885.4 | 890.2 | 891.9 | 893.8 | 898.7 | 901.9 | 904.2 | 907.2 | 907.0 | 912.8 | 916.0 | 919.7 |
| Now Hampshire | 565.9 | 569.1 | 568.7 | 573.8 | 572.4 | 570.5 | 573.4 | 572.5 | 570.0 | 572.7 | 572.6 | 570.5 | 573.8 |
| New Jersey | 3,709.2 | 3,712.7 | 3.719 .9 | 3,728.0 | 3,724.1 | 3,746.9 | 3,748.4 | 3.758.2 | 3,766.5 | 3,771.3 | 3,784.2 | 3,788.0 | 3,784.1 |
| New Mexico | 703.9 | 707.0 | 708.5 | 709.1 | 709.5 | 709.1 | 712.2 | 713.3 | 713.9 | 712.7 | 713.1 | 714.4 | 713.2 |
| New York | 8,007.6 | 8,013.8 | 8,014.4 | 8,030.1 | 8,032.9 | 8,057.7 | 8,075.7 | 8,083.4 | 8,095.6 | 8,082.4 | 8,098.6 | 8,117.5 | 8,123.0 |
| North Carolina | 3,642.6 | 3,652.1 | 3,656.1 | $3,681.5$ | 3.694 .9 | 3,697.4 | 3,704.2 | 3,716.8 | 3,715.4 | 3,719.6 | 3,734.1 | 3,735.5 | 3,738.6 |
| North Dakota | 312.1 | 312.1 | 311.3 | 313.6 | 313.6 | 314.1 | 314.4 | 315.1 | 316.2 | 317.4 | 319.0 | 318.1 | 317.9 |
| Ohio | 5,373.6 | 5,386.4 | 5,388.5 | 5,384,3 | 5,394.1 | 5,405.7 | 5,409.0 | 5,417.1 | 5,421.7 | 5,439.2 | 5,436.3 | 5,445.3 | 5,446.1 |
| Oklahoma | 1,379.2 | 1,383.8 | 1,381.6 | 1,384.9 | 1,388.7 | 1,397.7 | 1,397.3 | 1,403.4 | 1,405.1 | 1,405.7 | 1,410.7 | 1,415.9 | 1,417.9 |
| Oregon | 1,519.6 | 1.525 .8 | 1,525.7 | 1,528.6 | 1,527.0 | 1,532.2 | 1,537.8 | 1,536.9 | 1,551.0 | 1,551.8 | 1,557.3 | $1,561.9$ | 1,562.0 |
| Pennsylvania | 5,383.4 | 5,393.3 | 5,385.0 | 5,396.8 | 5,395.4 | 5,421.7 | 5,425.9 | 5,434.4 | 5,446.5 | 5,453.9 | 5,448.0 | 5,447.2 | 5,452.4 |
| Rhode island | 448.5 | 449.0 | 448.1 | 449.8 | 449.7 | 452.3 | 451.9 | 451.1 | 453.4 | 452.7 | 454.1 | 453.7 | 454.9 |
| South Carolina | 1,710.8 | 1,713.6 | 1.715 .5 | 1,724.1 | 1,725.9 | 1,727.8 | 1,730.6 | 1,735.0 | 1,749.1 | 1,763.5 | 1,767.8 | 1,775.6 | 1,784.8 |
| South Dakota | 352.0 | 355.4 | 352.4 | 356.5 | 355.6 | 355.8 | 356.3 | 355.7 | 356.1 | 354.9 | 357.0 | 357.3 | 357.7 |
| Tennessee | 2,578.6 | 2,579.5 | 2,568.7 | 2,589.3 | 2,587.3 | 2,590.4 | 2,595.9 | 2,603.0 | 2,605.3 | 2,618.6 | 2,020.7 | 2,623.6 | 2,623.4 |
| Texas | 8,533.3 | 8.568.7 | 8,592.0 | 8,626.0 | 8,655.9 | 8,682.6 | 8,703.4 | 8,732.1 | 8,760.7 | 8,755.4 | 8,801.2 | 8,824.5 | 8,858.1 |
| Utah | 987.1 | 991.8 | 992.7 | 997.1 | 997.4 | 1,002.1 | 1,003.7 | 1,010.6 | 1,014.3 | 1,015.6 | 1,018.2 | 1,024.3 | 1,025.5 |
| Vermont ........................................... | 277.7 | 278.4 | 278.4 | 279.7 | 279.2 | 279.4 | 279.5 | 279.7 | 281.4 | 279.3 | 280.0 | 280.1 | 281.2 |
| Virginia | 3,212.1 | 3,218.1 | 3,226.3 | 3,225.6 | 3,232.5 | 3,240.2 | 3,259.8 | 3,267.2 | 3,278.7 | 3,280.0 | 3,291.1 | 3,303.6 | 3,309.7 |
| Washington. | 2,496.6 | 2,507.0 | 2,513.9 | 2,526.0 | 2,522.8 | 2,525.5 | 2,529.9 | 2,534.5 | 2,543.6 | 2,546.0 | 2,558.5 | 2,566.4 | 2,577.8 |
| West Virginia | 706.0 | 705.6 2 | $\begin{array}{r}706.7 \\ \hline\end{array}$ | 706.1 | 706.9 | 708.7 | 716.9 | 717.7 | 717.1 | 715.3 | 715.6 | 715.2 | 713.0 |
| Wisconsin | 2,636.8 | 2,647.0 | 2,650.1 | 2,657.7 | 2,662 5 | 2,668.0 | 2,674.5 | 2,679.4 | 2,684.9 | 2,691.4 | 2,694.1 | 2,696.5 | 2,702.0 |
| Wyoming ....................................... | 222.8 | 224.1 | 223.1 | 226.5 | 226.7 | 223.2 | 223.4 | 223.2 | 223.0 | 222.8 | 222.4 | 223.9 | 224.6 |

See footnotes at end of table.

ESTABLISHMENT DATA STATE EMPLOYMENT SEASONALLY ADJUSTED

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted - Continued

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ${ }^{\text {P }}$ |
|  | Construction |  |  |  |  |  |  |  |  |  |  |  |  |
| Alabama | 97.0 | 97.6 | 97.6 | 97.3 | 96.9 | 97.0 | 96.6 | 96.5 | 96.2 | 97.1 | 97.9 | 97.0 | 98.6 |
| Alaska ... | 12.8 | 13.0 | 12.9 | 12.9 | 12.8 | 12.5 | 12.4 | 12.7 | 12.8 | 12.8 | 12.8 | 12.8 | 13.0 |
| Arizona | 129.7 | 130.3 | 130.0 | 131.9 | 131.2 | 131.4 | 131.8 | 131.4 | 131.6 | 134.5 | 133.5 | 134.5 | 133.5 |
| Arkansas | 47.5 | 48.2 | 47.7 | 48.0 | 47.9 | 47.4 | 48.0 | 48.0 | 48.1 | 47.5 | 47.5 | 47.7 | 48.7 |
| California | 543.7 | 548.2 | 548.2 | 557.2 | 562.1 | 566.1 | 570.2 | 573.1 | 577.9 | 583.4 | 582.3 | 591.9 | 591.9 |
| Colorado | 117.4 | 118.9 | 119.3 | 119.6 | 120.0 | 121.2 | 121.6 | 118.0 | 122.1 | 127.3 | 128.0 | 127.9 | 126.0 |
| Connecticut | 56.3 | 56.3 | 56.3 | 56.3 | 56.3 | 57.2 | 57.7 | 58.1 | 58.9 | 60.1 | 60.1 | 59.8 | 59.5 |
| Delaware ............. | 21.5 | 21.2 | 21.6 | 21.1 | 21.3 | 21.6 | 21.9 | 22.2 | 22.5 | 23.1 | 22.8 | 22.2 | 22.1 |
| District of Columbia | 9.1 | 8.9 | 8.9 | 9.0 | 8.9 | 8.8 | 8.8 | 8.4 | 8.8 | 8.7 | 8.8 | 8.9 | 8.7 |
| Florida | 329.0 | 329.6 | 330.3 | 335.4 | 335.7 | 335.4 | 337.6 | 339.3 | 339.9 | 340.5 | 340.6 | 342.6 | 344.3 |
| Georgia | 165.9 | 166.4 | 165.9 | 169.0 | 170.9 | 171.9 | 172.2 | 173.3 | 175.2 | 177.2 | 177.2 | 178.2 | 178.8 |
| Hawaii ${ }^{2}$ | 22.5 | 22.3 | 22.1 | 22.2 | 22.0 | 22.0 | 22.0 | 21.9 | 21.8 | 21.9 | 21.9 | 22.1 | 21.9 |
| Idaho ... | 31.9 | 32.2 | 32.2 | 32.2 | 32.4 | 32.7 | 32.6 | 32.5 | 32.3 | 32.7 | 33.2 | 32.6 | 32.5 |
| Illinois | 234.3 | 234.7 | 233.0 | 234.8 | 237.2 | 238.2 | 238.2 | 239.3 | 239.1 | 239.8 | 240.8 | 235.9 | 241.1 |
| Indiana | 141.2 | 141.2 | 140.8 | 139.8 | 139.7 | 139.8 | 140.6 | 142.3 | 142.9 | 143.3 | 143.8 | 140.6 | 144.8 |
| lowa | 58.0 | 60.1 | 60.5 | 61.0 | 60.6 | 60.3 | 60.2 | 60.5 | 61.0 | 60.1 | 60.3 | 60.6 | 620 |
| Kansas | 57.8 | 59.7 | 59.5 | 58.9 | 59.2 | 59.1 | 59.3 | 59.4 | 59.3 | 60.7 | 60.8 | 58.5 | 59.5 |
| Kentucky | 81.5 | 81.1 | 80.2 | 81.6 | 83.3 | 82.1 | 82.1 | 81.6 | 82.3 | 85.2 | 83.3 | 85.4 | 86.5 |
| Louisiana | 116.7 | 116.4 | 117.5 | 118.0 | 118.7 | 117.8 | 117.8 | 117.4 | 117.1 | 117.9 | 118.0 | 118.4 | 117.9 |
| Maine | 23.5 | 23.5 | 23.5 | 23.9 | 24.0 | 24.0 | 24.2 | 24.4 | 24.4 | 24.4 | 24.4 | 24.2 | 24.0 |
| Maryland | 138.3 | 138.3 | 138.1 | 137.6 | 137.6 | 137.2 | 138.5 | 139.7 | 140.3 | 140.6 | 140.1 | 137.4 | 136.9 |
| Massachusetts ................................. | 98.9 | 98.4 | 98.3 | 100.2 | 100.7 | 99.0 | 99.7 | 102.5 | 104.4 | 107.9 | 108.8 | 108.3 | 108.3 |
| Michigan | 180.3 | 180.8 | 181.0 | 181.2 | 182.7 | 182.5 | 183.7 | 184.1 | 186.1 | 184.8 | 187.3 | 184.6 | 189.6 |
| Minnesota | 92.4 | 93.6 | 93.3 | 93.4 | 93.9 | 94.2 | 94.5 | 95.7 | 96.3 | 97.6 | 99.4 | 99.2 | 99.8 |
| Mississippi | 49.3 | 50.1 | 50.0 | 51.5 | 51.6 | 51.7 | 52.4 | 51.6 | 51.5 | 52.7 | 52.6 | 51.9 | 52.3 |
| Missouri | 120.3 | 121.3 | 120.6 | 121.6 | 123.5 | 124.6 | 124.6 | 125.2 | 124.9 | 123.1 | 124.8 | 118.5 | 123.3 |
| Montana | 16.8 | 17.8 | 17.4 | 18.4 | 19.0 | 18.5 | 18.5 | 18.6 | 18.9 | 18.9 | 18.7 | 18.2 | 17.8 |
| Nebraska | 37.7 | 37.8 | 38.3 | 38.9 | 38.8 | 38.9 | 39.2 | 39.2 | 40.9 | 42.8 | 42.4 | 40.8 | 41.5 |
| Nevada | 80.9 | 81.8 | 81.8 | 82.0 | 82.5 | 82.8 | 83.4 | 83.7 | 84.0 | 85.1 | 85.2 | 86.1 | 87.0 |
| New Hampshire ............................... | 20.9 | 21.2 | 20.9 | 21.1 | 21.3 | 21.5 | 21.2 | 21.0 | 21.4 | 21.8 | 22.0 | 22.2 | 22.4 |
| New Jersey | 130.8 | 130.2 | 130.4 | 131.3 | 131.5 | 131.5 | 131.2 | 131.8 | 131.9 | 135.6 | 137.1 | 136.4 | 135.8 |
| New Mexico ..................................... | 42.5 | 42.8 | 42.8 | 42.5 | 42.8 | 42.6 | 42.3 | 42.2 | 42.2 | 42.1 | 42.1 | 42.2 | 42.6 |
| New York | 263.1 | 262.8 | 262.3 | 262.1 | 264.1 | 265.3 | 267.9 | 267.8 | 268.1 | 265.6 | 268.5 | 270.6 | 271.4 |
| North Carolina | 202.1 | 202.0 | 201.7 | 204.4 | 205.5 | 206.7 | 207.2 | 207.9 | 208.7 | 211.7 | 208.7 | 209.5 | 210.7 |
| North Dakota ................................... | 14.4 | 14.9 | 15.0 | 15.5 | 14.9 | 14.7 | 14.7 | 14.8 | 14.9 | 15.1 | 15.2 | 15.1 | 15.3 |
| Ohio | 223.6 | 224.1 | 222.9 | 222.6 | 224.6 | 224.9 | 225.0 | 225.4 | 225.3 | 226.7 | 228.4 | 228.1 | 232.5 |
| Oklahoma | 50.1 | 50.2 | 49.9 | 50.5 | 50.5 | 50.8 | 50.6 | 50.9 | 50.8 | 51.8 | 52.1 | 52.3 | 523 |
| Oregon | 81.3 | 82.2 | 82.5 | 81.9 | 82.5 | 83.0 | 82.7 | 83.1 | 84.6 | 82.3 | 84.3 | 84.9 | 85.6 |
| Pennsylvania .................................. | 214.0 | 213.0 | 212.2 | 212.3 | 213.0 | 213.9 | 214.7 | 216.4 | 217.1 | 218.4 | 219.4 | 220.6 | 222.3 |
| Rhode Island ................................... | 14.4 | 14.4 | 14.3 | 14.4 | 14.6 | 14.9 | 14.9 | 14.9 | 15.1 | 15.4 | 15.5 | 16.1 | 16.9 |
| South Carolina | 99.4 | 98.8 | 98.6 | 99.7 | 100.4 | 100.7 | 101.1 | 101.6 | 103.3 | 104.9 | 106.0 | 106.7 | 107.9 |
| South Dakota | 14.2 | 15.0 | 15.2 | 15.5 | 15.6 | 15.5 | 15.6 | 15.7 | 15.9 | 15.9 | 16.0 | 15.6 | 15.8 |
| Tennessee | 117.0 | 116.2 | 115.1 | 116.0 | 116.6 | 116.9 | 117.4 | 117.8 | 118.1 | 117.0 | 117.7 | 119.2 | 120.3 |
| Texas | 453.1 | 456.4 | 457.9 | 459.6 | 462.5 | 463.2 | 462.4 | 464.5 | 467.0 | 468.1 | 476.7 | 477.8 | 479.7 |
| Utah ............................................... | 64.0 | 65.2 | 65.3 | 65.5 | 65.4 | 65.1 | 64.7 | 65.8 | 66.5 | 65.7 | 66.5 | 67.3 | 68.2 |
| Vermont .......................................... | 12.9 | 12.9 | 13.0 | 13.2 | 13.3 | 13.1 | 12.9 | 12.8 | 13.3 | 12.7 | 12.6 | 12.5 | 12.9 |
| Virginia ............................................ | 183.9 | 185.2 | 184.7 | 185.1 | 185.7 | 185.1 | 187.3 | 188.3 | 189.0 | 190.2 | 191.5 | 192.9 | 193.9 |
| Washington ...................................... | 135.4 | 136.0 | 136.4 | 136.9 | 137.0 | 136.3 | 136.1 | 136.8 | 136.6 | 137.7 | 138.2 | 138.9 | 140.3 |
| West Virginia ................................. | 35.3 107.7 | 34.6 1089 | 34.6 | 34.3 | 34.5 | 34.6 | 35.4 | 35.6 | 35.5 | 36.2 | 35.4 | 34.3 | 34.7 |
| Wisconsin ...................................... | 107.7 | 108.9 | 109.0 | 109.5 | 109.3 | 108.8 | 108.9 | 109.4 | 110.0 | 110.2 | 111.6 | 110.9 | 111.9 |
| Wyoming ......................................... | 14.5 | 15.2 | 15.3 | 15.5 | 15.6 | 15.4 | 14.9 | 15.2 | 14.9 | 14.9 | 15.0 | 15.1 | 15.3 |

See footnotes at end of table.

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted - Continued

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ${ }^{\text {P }}$ |
|  | Manufacturing |  |  |  |  |  |  |  |  |  |  |  |  |
| Alabama | 380.8 | 380.9 | 379.8 | 381.2 | 382.2 | 380.0 | 378.7 | 378.7 | 378.6 | 380.2 | 379.2 | 378.0 | 377.0 |
| Alaska ... | 16.0 | 15.5 | 15.5 | 15.4 | 14.8 | 14.7 | 15.0 | 15.5 | 13.9 | 15.5 | 16.4 | 16.3 | 15.7 |
| Arizona | 203.8 | 204.7 | 205.2 | 206.9 | 208.1 | 209.3 | 210.1 | 211.6 | 212.9 | 214.7 | 215.0 | 215.1 | 215.6 |
| Arkansas | 253.4 | 253.8 | 253.7 | 253.0 | 253.4 | 252.9 | 253.5 | 253.3 | 254.0 | 255.5 | 255.3 | 255.1 | 255.6 |
| California | 1,901.0 | 1,907.8 | 1,913.9 | 1,925.8 | 1,925.8 | 1,927.4 | 1,935.0 | 1,936.5 | 1,941.6 | 1,943.2 | 1,945.2 | 1,947.1 | 1,947.1 |
| Colorado | 202.3 | 202.7 | 202.8 | 204.0 | 204.6 | 205.1 | 205.8 | 206.6 | 207.7 | 206.9 | 208.4 | 208.8 | 208.7 |
| Connecticut | 276.2 | 275.9 | 276.2 | 278.2 | 277.2 | 276.6 | 276.5 | 276.0 | 276.3 | 277.1 | 276.9 | 277.0 | 277.4 |
| Delaware .. | 57.4 | 57.5 | 56.6 | 56.6 | 57.5 | 57.9 | 58.3 | 58.4 | 58.7 | 56.7 12.7 | 57.3 | 58.8 | 58.8 |
| District of Columbia | 12.6 | 12.7 | 12.5 | 12.5 | 12.6 | 12.5 | 12.6 | 12.6 | 12.6 | 12.8 | 12.7 | 12.8 | 12.8 |
| Florida .................. | 491.2 | 491.0 | 490.2 | 492.3 | 492.3 | 491.9 | 491.7 | 491.5 | 491.9 | 491.8 | 491.7 | 491.3 | 492.6 |
| Georgia | 589.0 | 589.4 | 588.5 | 588.9 | 587.8 | 587.5 | 588.1 | 589.3 | 590.0 | 689.1 | 587.1 | 589.9 | 590.8 |
| Hawaii. | 16.7 | 16.7 | 16.7 | 16.8 | 16.7 | 16.4 | 16.4 | 16.5 | 16.5 | 16.5 | 16.4 | 16.4 | 16.3 76.6 |
| Idaho | 74.4 | 74.2 | 74.4 | 74.1 | 74.5 | 74.8 | 75.2 | 75.5 | 75.8 | 76.4 | 76.7 | 76.3 | 76.6 |
| Illinois | 969.8 | 970.6 | 968.2 | 975.9 | 977.7 | 978.8 | 983.3 | 979.5 | 980.9 | 981.3 | 980.2 | 980.5 | 9821 |
| Indiana | 678.2 | 677.4 | 675.9 | 676.8 | 677.5 | 675.2 | 678.0 | 678.4 | 679.6 | 678.6 | 680.1 | 682.9 | 680.8 |
| lowa | 251.5 | 253.0 | 253.6 | 253.9 | 255.2 | 254.4 | 256.3 | 256.1 | 256.3 | 256.5 | 257.0 | 258.4 | 258.1 |
| Kansas | 204.3 | 204.5 | 205.9 | 206.3 | 206.9 | 207.3 | 207.1 | 208.4 | 208.9 | 209.7 | 210.2 | 210.4 | 211.0 |
| Kentucky | 316.1 | 314.6 | 317.4 | 318.6 | 319.5 | 320.2 | 315.6 | 315.9 | 316.7 | 318.6 | 317.9 | 314.9 | 315.3 |
| Louisiana | 190.2 | 191.6 | 190.8 | 191.3 | 191.0 | 190.7 | 190.0 | 150.7 | 190.8 | 190.8 | 190.4 | 190.5 | 190.1 |
| Maine . | 87.2 | 87.6 | 87.7 | 87.3 | 87.9 | 87.6 | 87.5 | 87.8 | 88.1 | 88.1 | 88.2 | 87.4 | 87.3 |
| Maryland ......... | 176.8 | 176.7 | 176.1 | 175.3 | 176.0 | 173.5 | 173.6 | 176.6 | 176.7 | 176.6 | 177.1 | 176.8 | 175.7 |
| Massachusetts | 446.5 | 447.0 | 447.7 | 448.9 | 448.7 | 448.2 | 450.2 | 451.6 | 452.9 | 455.8 | 456.9 | 456.3 | 454.8 |
| Michigan | 967.3 | 967.4 | 963.3 | 964.1 | 967.8 | 963.3 | 969.8 | 970.7 | 969.3 | 970.9 | 973.2 | 973.8 | 979.7 |
| Minnesota | 431.4 | 432.4 | 433.0 | 434.5 | 435.1 | 434.9 | 437.5 | 439.3 | 440.4 | 440.7 | 438.7 | 442.4 | 441.7 |
| Mississippi ...................................... | 241.6 | 242.4 | 241.3 | 242.5 | 240.4 | 239.3 | 240.3 | 2412 | 241.1 | 241.8 | 242.6 | 241.5 | 241.7 |
| Missouri | 417.5 | 417.9 | 418.9 | 416.4 | 422.1 | 418.6 | 420.8 | 419.8 | 420.2 | 426.7 | 420.0 | 421.6 | 421.2 |
| Montana | 24.1 | 24.2 | 24.0 | 24.1 | 24.3 | 24.3 | 24.4 | 24.5 | 24.3 | 24.4 | 24.6 | 24.5 | 24.9 |
| Nebraska | 115.7 | 114.7 | 115.9 | 118.0 | 116.0 | 116.2 | 116.5 | 116.8 | 117.0 | 117.7 | 118.7 | 118.2 | 118.9 |
| Nevada | 40.1 | 40.3 | 40.4 | 40.4 | 40.7 | 40.9 | 40.9 | 41.2 | 41.4 | 41.7 | 41.9 | 42.4 | 42.3 |
| New Hampshire ............................... | 106.2 | 106.6 | 106.8 | 107.4 | 107.3 | 107.7 | 107.7 | 107.7 | 108.1 | 108.8 | 108.5 | 108.5 | 108.2 |
| New Jersey ...................................... | 482.4 | 481.1 | 480.8 | 481.9 | 482.4 | 482.0 | 481.6 | 483.5 | 484.4 | 486.0 | 485.5 | 485.2 | 482.4 |
| New Mexico ..................................... | 45.8 | 46.1 | 45.9 | 46.4 | 46.9 | 46.9 | 47.1 | 47.3 | 47.3 | 46.9 | 46.3 | 45.6 | 45.4 |
| New York | 921.4 | 920.4 | 917.7 | 921.3 | 921.7 | 921.6 | 922.3 | 923.3 | 925.1 | 923.0 | 920.3 | 920.4 | 918.0 |
| North Carolina ................................. | 834.4 | 834.9 | 834.2 | 835.6 | 831.4 | 834.0 | 834.2 | 834.7 | 833.5 | 833.1 | 833.7 | 833.1 | 831.3 |
| North Dakota ................................... | 23.0 | 23.0 | 23.2 | 23.5 | 23.8 | 23.4 | 23.6 | 23.7 | 23.6 | 24.0 | 23.9 | 23.9 | 23.9 |
| Ohio | 1,090.8 | 1,092. 1 | 1,090.5 | 1,082.2 | 1.090.0 | 1,090.1 | 1,090.5 | 1.090.8 | 1,093.8 | 1,095.3 | 1,096.9 | 1,097.8 | 1,094.7 |
| Oklahoma | 176.5 | 177.5 | 181.2 | 181.2 | 181.1 | 181.6 | 182.2 | 183.2 | 183.7 | 184.2 | 184.4 | 184.4 | 183.9 |
| Oregon | 242.8 | 245.3 | 244.1 | 244.3 | 242.1 | 243.7 | 245.6 | 246.2 | 246.7 | 247.0 | 247.5 | 247.7 | 246.9 |
| Pennsylvania | 935.4 | 937.3 | 936.5 | 936.4 | 935.4 | 938.7 | 939.3 | 938.6 | 938.6 | 943.0 | 941.6 | 939.7 | 938.7 |
| Rhode Island | 79.8 | 79.9 | 79.6 | 79.8 | 79.3 | 79.7 | 79.3 | 78.8 | 80.1 | 79.4 | 79.4 | 79.3 | 78.6 |
| South Carolina | 362.3 | 363.3 | 362.8 | 362.3 | 362.2 | 361.5 | 361.8 | 362.1 | 362.2 | 362.2 | 361.4 | 362.5 | 363.9 |
| South Dakota | 49.4 | 49.7 | 49.9 | 50.2 | 49.3 | 49.3 | 49.7 | 49.7 | 49.9 | 49.0 | 49.6 | 49.6 | 49.1 |
| Tennessee | 518.4 | 516.6 | 517.1 | 517.3 | 517.1 | 515.3 | 516.0 | 517.5 | 517.7 | 517.8 | 518.2 | 518.5 | 516.9 |
| Texas | 1,075.9 | 1,079.1 | 1,081.9 | 1,085.2 | 1,086.3 | 1,087.8 | 1,089.0 | 1,091.8 | 1,093.9 | 1,093.3 | 1,093.4 | 1,095.9 | 1,097.5 |
| Ulah. | 132.5 | 132.8 | 132.6 | 133.3 | 133.4 | 133.7 | 133.6 | 134.0 | 134.0 | 135.1 | 135.3 | 135.4 | 135.6 |
| Vermont | 46.0 | 46.3 | 46.2 | 46.5 | 46.5 | 46.7 | 46.9 | 46.9 | 47.2 | 47.3 | 47.4 | 47.3 | 47.8 |
| Virginia ............................................ | 403.8 | 403.8 | 403.0 | 403.8 | 404.1 | 403.9 | 405.3 | 405.3 | 405.8 | 406.4 | 406.6 | 407.6 | 407.4 |
| Washington | 364.8 | 367.1 | 369.6 | 372.0 | 373.2 | 374.2 | 373.8 | 375.1 | 376.0 | 376.5 | 377.4 | 377.8 | 376.8 |
| West Virginia | 81.6 | 81.5 | 81.4 | 80.8 | 81.6 | 81.1 | 82.2 | 82.4 | 82.7 | 83.0 | 83.1 | 82.9 | 83.1 |
| Wisconsin | 605.6 | 608.8 | 609.3 | 610.3 | 612.3 | 612.6 | 614.4 | 615.8 | 617.4 | 620.8 | 619.4 | 620.0 | 620.5 |
| Wyoming ........................................ | 10.7 | 10.8 | 10.8 | 10.8 | 10.8 | 11.0 | 10.9 | 10.9 | 10.9 | 10.9 | 10.8 | 11.0 | 11.0 |

See footnotes at end of table.

## B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted - Continued

(In thousands)


See footnotes at end of table.

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted - Continued


See footnotes at end of table

ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED
B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted - Continued
(In thousands)

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ${ }^{\text {P }}$ |
|  | Finance, insurance, and real estate |  |  |  |  |  |  |  |  |  |  |  |  |
| Alabama | 83.9 | 84.2 | 84.2 | 84.7 | 84.7 | 84.7 | 84.9 | 84.9 | 85.1 | 85.1 | 85.3 | 85.6 | 85.9 |
| Alaska | 12.1 | 12.2 | 12.3 | 12.3 | 12.4 | 12.3 | 12.2 | 12.2 | 12.2 | 12.1 | 12.1 | 12.2 | 12.3 |
| Arizona | 125.1 | 125.9 | 126.5 | 127.3 | 127.6 | 128.0 | 129.2 | 130.0 | 130.3 | 130.5 | 131.4 | 132.4 | 132.5 |
| Arkansas | 44.1 | 44.1 | 43.9 | 44.1 | 44.2 | 44.2 | 44.3 | 44.4 | 44.5 | 44.3 | 44.4 | 44.8 | 44.8 |
| California ........................................ | 750.7 | 754.5 | 756.7 | 759.3 | 760.0 | 761.2 | 763.5 | 764.7 | 765.1 | 765.8 | 769.9 | 772.7 | 776.9 |
| Colorado | 125.6 | 126.4 | 127.1 | 128.3 | 128.7 | 128.7 | 129.0 | 129.5 | 130.0 | 130.0 | 130.9 | 131.2 | 130.3 |
| Connecticut | 130.9 | 131.5 | 130.4 | 130.9 | 131.1 | 131.4 | 131.8 | 132.8 | 133.6 | 133.7 | 133.8 | 134.7 | 134.5 |
| Delaware | 46.3 | 46.5 | 47.0 | 47.3 | 47.6 | 48.3 | 48.5 | 48.2 | 48.6 | 48.4 | 48.6 | 48.9 | 49.6 |
| District of Columbia .......................... | 28.5 | 28.5 | 28.4 | 28.5 | 28.5 | 28.5 | 28.4 | 28.3 | 28.4 | 28.9 | 28.4 | 28.5 | 28.5 |
| Florida ............................................ | 406.8 | 408.0 | 408.3 | 410.1 | 411.4 | 413.1 | 416.8 | 419.3 | 419.2 | 418.8 | 419.9 | 422.8 | 424.5 |
| Georgia ........................................... | 185.4 | 186.0 | 186.1 | 187.0 | 188.5 | 189.2 | 190.6 | 190.8 | 191.7 | 191.8 | 192.8 | 193.8 | 194.5 |
| Hawaii | 36.3 | 36.3 | 36.2 | 36.1 | 36.1 | 36.0 | 35.9 | 35.8 | 35.7 | 35.6 | 35.3 | 35.3 | 35.3 |
| Idaho | 25.1 | 25.1 | 25.1 | 25.7 | 25.7 | 25.8 | 25.7 | 25.6 | 25.6 | 25.7 | 26.0 | 26.2 | 26.4 |
| llinois | 395.1 | 396.5 | 397.2 | 399.1 | 400.9 | 401.0 | 402.9 | 404.3 | 405.2 | 406.3 | 406.5 | 406.8 | 407.9 |
| Indiana | 137.9 | 137.8 | 137.7 | 139.0 | 139.3 | 139.6 | 139.9 | 140.1 | 140.4 | 140.2 | 140.0 | 140.2 | 140.9 |
| lowa | 78.7 | 79.0 | 79.2 | 79.5 | 79.6 | 79.8 | 80.5 | 80.7 | 80.9 | 81.3 | 81.0 | 81.1 | 81.2 |
| Kansas | 61.1 | 61.1 | 61.1 | 60.5 | 60.7 | 60.7 | 60.7 | 60.8 | 60.9 | 60.8 | 61.1 | 61.0 | 61.6 |
| Kentucky | 68.8 | 68.8 | 68.5 | 69.9 | 70.2 | 70.1 | 70.2 | 70.4 | 70.6 | 70.5 | 70.7 | 70.8 | 71.1 |
| Louisiana | 85.3 | 85.4 | B5.5 | 85.9 | 86.0 | 86.0 | 86.1 | 86.5 | 86.8 | 86.5 | 86.6 | 86.8 | 86.5 |
| Maine ...... | 28.0 | 28.1 | 28.3 | 28.7 | 28.7 | 28.6 | 28.8 | 29.0 | 29.2 | 29.4 | 29.7 | 30.2 | 30.2 |
| Maryland | 130.4 | 130.4 | 130.7 | 130.4 | 130.7 | 130.8 | 130.7 | 130.9 | 131.3 | 131.5 | 131.8 | 131.1 | 131.5 |
| Massachusetts | 211.7 | 212.3 | 212.5 | 212.3 | 213.2 | 213.9 | 214.6 | 215.2 | 215.7 | 215.9 | 216.1 | 216.5 | 216.3 |
| Michigan . | 206.7 | 206.2 | 206.2 | 205.5 | 204.9 | 205.7 | 206.2 | 206.6 | 207.1 | 207.9 | 208.9 | 209.4 | 210.0 |
| Minnesota | 145.9 | 145.5 | 145.7 | 146.2 | 146.4 | 146.7 | 147.9 | 148.5 | 149.1 | 149.2 | 149.8 | 149.9 | 150.8 |
| Mississippi | 41.6 | 41.7 | 41.7 | 41.4 | 40.6 | 40.8 | 41.1 | 41.1 | 41.1 | 41.2 | 41.5 | 41.3 | 41.5 |
| Missouri | 153.9 | 153.8 | 154.0 | 154.4 | 153.7 | 154.1 | 154.7 | 154.8 | 155.5 | 155.8 | 156.0 | 156.7 | 157.1 |
| Montana | 16.3 | 16.3 | 16.4 | 16.4 | 16.5 | 16.6 | 16.6 | 16.6 | 16.6 | 16.7 | 16.8 | 16.7 | 16.9 |
| Nebraska | 53.9 | 54.1 | 54.2 | 54.7 | 54.8 | 55.0 | 55.3 | 55.4 | 55.9 | 55.8 | 56.4 | 56.5 | 56.8 |
| Nevada | 39.4 | 39.9 | 40.1 | 40.4 | 40.4 | 40.5 | 40.9 | 41.1 | 41.2 | 41.4 | 41.5 | 41.7 | 41.9 |
| New Hampshire | 29.2 | 29.3 | 29.4 | 29.6 | 29.6 | 29.4 | 29.5 | 29.4 | 29.2 | 29.3 | 29.3 | 29.4 | 29.8 |
| New Jersey | 237.4 | 238.3 | 238.6 | 237.9 | 238.2 | 238.8 | 239.9 | 240.9 | 242.2 | 243.3 | 244.1 | 244.0 | 244.6 |
| New Mexico | 31.3 | 31.3 | 31.4 | 31.4 | 31.4 | 31.2 | 31.2 | 31.3 | 31.4 | 31.5 | 31.5 | 31.6 | 31.5 |
| Now York | 719.7 | 719.8 | 721.1 | 720.3 | 720.7 | 721.3 | 721.3 | 721.5 | 722.1 | 721.3 | 724.1 | 725.8 | 725.9 |
| North Carotina | 165.2 | 166.1 | 166.4 | 167.6 | 168.0 | 168.3 | 168.5 | 168.9 | 169.3 | 170.6 | 172.5 | 173.4 | 173.2 |
| North Dakota | 14.6 | 14.6 | 14.7 | 14.9 | 14.9 | 14.9 | 15.0 | 15.0 | 15.2 | 15.3 | 15.4 | 15.3 | 15.4 |
| Ohio ............................................... | 286.5 | 287.0 | 286.6 | 286.7 | 287.5 | 287.9 | 288.4 | 288.7 | 288.9 | 290.0 | 289.8 | 290.5 | 291.8 |
| Oklahoma | 69.0 | 69.1 | 69.2 | 69.3 | 69.3 | 69.5 | 69.9 | 70.2 | 70.2 | 70.3 | 70.5 | 70.7 | 70.9 |
| Oregon | 94.8 | 94.9 | 94.9 | 95.4 | 95.5 | 95.2 | 95.7 | 96.1 | 96.0 | 96.4 | 96.0 | 96.7 | 96.5 |
| Pennsylvania | 312.1 | 312.4 | 312.8 | 312.4 | 312.5 | 313.3 | 314.4 | 315.3 | 317.6 | 317.5 | 318.5 | 318.5 | 319.2 |
| Rhode island | 26.4 | 26.5 | 26.5 | 26.7 | 26.6 | 26.6 | 26.6 | 26.7 | 26.6 | 26.9 | 27.0 | 26.8 | 27.0 |
| South Carolina .................................. | 74.5 | 74.6 | 74.6 | 75.1 | 75.2 | 75.2 | 75.3 | 75.3 | 75.8 | 76.0 | 76.6 | 76.9 | 77.5 |
| South Dakota | 20.7 | 20.8 | 20.9 | 21.1 | 21.1 | 21.2 | 21.4 | 21.6 | 21.7 | 21.7 | 21.6 | 21.6 | 21.6 |
| Tennessee ....................................... | 119.5 | 120.2 | 120.7 | 120.7 | 120.8 | 121.6 | 122.0 | 121.7 | 121.7 | 123.4 | 123.5 | 123.2 | 122.7 |
| Texas | 460.1 | 462.3 | 463.4 | 465.2 | 466.7 | 467.9 | 469.0 | 469.7 | 471.2 | 473.5 | 475.6 | 477.4 | 478.5 |
| Utah ... | 52.4 | 52.5 | 52.6 | 52.8 | 52.9 | 53.2 | 53.6 | 54.0 | 53.9 | 53.7 | 53.8 | 53.7 | 53.9 |
| Vermont ........................................... | 12.2 | 12.2 | 12.3 | 12.4 | 12.4 | 12.4 | 12.3 | 12.3 | 12.2 | 12.2 | 12.1 | 12.1 | 12.1 |
| Virginia | 167.3 | 167.6 | 168.0 | 168. 1 | 168.1 | 167.6 | 168.6 | 169.1 | 169.5 | 170.6 | 170.7 | 170.7 | 170.6 |
| Washington ...................................... | 127.4 | 127.6 | 127.0 | 129.2 | 129.6 | 129.8 | 130.3 | 130.4 | 131.0 | 131.5 | 132.0 | 132.5 | 133.7 |
| West Virginia | 28.2 | 28.2 | 28.1 | 28.3 | 28.3 | 28.3 | 28.5 | 28.5 | 28.6 | 28.4 | 28.3 | 28.4 | 28.3 |
| Wisconsin | 139.7 | 139.8 | 140.3 | 140.5 | 140.4 | 140.5 | 141.1 | 141.8 | 141.9 | 141.8 | 142.2 | 142.3 | 142.5 |
| Wyoming ......................................... | 8.1 | 8.1 | 8.1 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.3 | 8.3 | 8.3 |

B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted - Continued


ESTABLISHMENT DATA
STATE EMPLOYMENT
SEASONALLY ADJUSTED
B-7. Employees on nonfarm payrolls by State and major industry, seasonally adjusted - Continued
(In thousands)

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.P |
|  | Government |  |  |  |  |  |  |  |  |  |  |  |  |
| Alabama | 345.5 | 345.8 | 345.3 | 345.3 | 346.0 | 346.2 | 347.0 | 347.1 | 347.3 | 346.7 | 346.2 | 346.3 | 345.2 |
| Alaska | 73.3 | 73.1 | 72.9 | 73.5 | 73.0 | 72.8 | 72.9 | 73.3 | 73.5 | 73.1 | 73.3 | 73.2 | 73.6 |
| Arizona | 325.1 | 326.8 | 327.3 | 318.2 | 325.7 | 326.6 | 327.0 | 327.3 | 327.5 | 325.4 | 329.5 | 332.6 | 331.8 |
| Arkansas | 183.1 | 182.8 | 182.9 | 1840 | 185.6 | 183.7 | 182.8 | 183.5 | 183.9 | 183.7 | 184.0 | 184.7 | 185.3 |
| California | 2,139.9 | 2,142.1 | 2,142.4 | 2,127.0 | 2,145.2 | 2,151.8 | 2,155.2 | 2,163.6 | 2,160.5 | 2,157.5 | 2,161.0 | 2,170.2 | 2,174.3 |
| Colorado | 313.0 | 313.8 | 314.5 | 315.6 | 315.3 | 316.4 | 316.2 | 316.2 | 317.0 | 318.2 | 317.8 | 318.0 | 317.9 |
| Connecticut | 224.8 | 224.5 | 224.4 | 223.5 | 224.2 | 225.2 | 225.3 | 225.6 | 226.3 | 225.8 | 227.0 | 226.8 | 226.4 |
| Delaware | 52.9 | 53.1 | 53.2 | 53.4 | 53.7 | 53.9 | 53.4 | 53.6 | 53.8 | 53.9 | 53.8 | 53.7 | 54.1 |
| District of Columbia | 234.1 | 233.7 | 232.7 | 235.1 | 232.9 | 231.4 | 229.9 | 229.3 | 228.6 | 230.0 | 227.9 | 227.2 | 229.1 |
| Florida .............. | 939.2 | 941.7 | 942.8 | 938.8 | 942.2 | 944.4 | 944.8 | 949.3 | 950.5 | 956.9 | 953.2 | 951.3 | 949.2 |
| Georgia ........................................... | 574.7 | 575.9 | 576.2 | 578.4 | 580.0 | 581.1 | 581.3 | 581.1 | 582.9 | 584.0 | 586.2 | 587.1 | 588.6 |
| Hawaii ................................................ | 110.3 | 110.7 | 111.4 | 110.6 | 112.7 | 114.4 | 112.7 | 112.1 | 111.6 | 111.3 | 110.8 | 111.3 | 111.5 |
| Idaho | 98.7 | 99.0 | 98.9 | 99.7 | 100.1 | 99.7 | 99.7 | 99.6 | 99.4 | 101.1 | 101.4 | 102.1 | 102.0 |
| Illinois | 800.5 | 806.5 | 804.6 | 808.1 | 808.8 | 808.3 | 807.5 | 806.2 | 804.1 | 803.8 | 801.2 | 803.4 | 804.0 |
| Indiana | 391.5 | 393.4 | 395.0 | 393.4 | 392.1 | 393.0 | 389.4 | 386.1 | 390.4 | 395.2 | 391.0 | 389.9 | 391.1 |
| lowa | 233.9 | 234.1 | 234.3 | 234.5 | 234.5 | 235.0 | 236.8 | 233.4 | 234.6 | 236.8 | 237.8 | 237.5 | 238.4 |
| Kansas | 236.0 | 236.7 | 235.7 | 235.8 | 235.2 | 234.7 | 237.0 | 235.2 | 237.8 | 239.4 | 239.0 | 239.7 | 237.2 |
| Kentucky | 291.3 | 290.8 | 291.3 | 291.5 | 291.1 | 290.3 | 290.2 | 291.0 | 291.1 | 294.1 | 292.5 | 294.3 | 292.9 |
| Louisiana | 362.1 | 362.7 | 364.1 | 361.9 | 364.5 | 365.3 | 365.9 | 366.5 | 365.2 | 365.4 | 367.7 | 367.0 | 367.5 |
| Maine | 93.1 | 92.6 | 92.9 | 92.9 | 92.9 | 92.9 | 93.1 | 92.8 | 93.0 | 91.6 | 93.0 | 92.5 | 92.2 |
| Maryland | 416.8 | 417.0 | 418.1 | 420.1 | 417.7 | 418.4 | 416.9 | 416.0 | 414.8 | 420.4 | 420.4 | 419.8 | 421.1 |
| Massachusetts | 403.3 | 404.4 | 404.9 | 407.2 | 407.5 | 407.3 | 406.9 | 407.3 | 409.0 | 408.5 | 409.3 | 407.7 | 408.7 |
| Michigan | 650.6 | 657.3 | 649.9 | 646.1 | 644.6 | 652.6 | 647.3 | 643.9 | 650.0 | 654.7 | 655.1 | 652.3 | 655.4 |
| Minnesota | 377.7 | 377.8 | 379.1 | 380.3 | 382.9 | 379.9 | 379.8 | 380.1 | 379.9 | 379.7 | 381.1 | 382.6 | 380.1 |
| Mississippi | 218.0 | 217.7 | 217.1 | 218.8 | 222.3 | 220.3 | 220.3 | 220.3 | 220.3 | 220.2 | 221.7 | 220.7 | 222.0 |
| Missouri | 411.7 | 414.3 | 415.9 | 414.6 | 415.7 | 415.6 | 415.4 | 414.1 | 416.4 | 416.4 | 418.3 | 415.3 | 417.8 |
| Montana | 76.9 | 76.7 | 74.4 | 76.5 | 76.7 | 77.0 | 77.3 | 77.3 | 77.9 | 77.0 | 77.0 | 77.6 | 77.3 |
| Nebraska | 151.8 | 151.6 | 152.0 | 153.6 | 153.3 | 152.3 | 153.3 | 153.9 | 154.0 | 152.8 | 153.6 | 152.7 | 153.5 |
| Nevada | 105.3 | 105.8 | 109.2 | 106.9 | 107.2 | 107.4 | 108.0 | 108.0 | 109.2 | 108.4 | 109.5 | 109.3 | 110.6 |
| New Hampshire | 78.9 | 78.9 | 78.5 | 79.5 | 78.8 | 77.8 | 78.2 | 78.4 | 75.6 | 77.8 | 78.4 | 77.9 | 79.2 |
| New Jersey | 568.8 | 569.1 | 569.4 | 568.8 | 568.3 | 575.9 | 570.7 | 570.0 | 570.5 | 570.0 | 569.6 | 568.4 | 566.8 |
| New Mexico | 176.4 | 177.3 | 178.1 | 178.8 | 178.4 | 177.8 | 178.0 | 178.2 | 178.6 | 178.7 | 178.3 | 179.1 | 178.1 |
| New York | 1,373.7 | 1,375.5 | 1,371.5 | 1,373.2 | 1,375.1 | 1,374.7 | 1,379.8 | 1.374.7 | 1,373.3 | 1,368.3 | 1,370.6 | 1,371.4 | 1,367.3 |
| North Carolina | 573.9 | 573.8 | 574.4 | 578.9 | 599.2 | 586.9 | 588.4 | 589.0 | 589.0 | 587.5 | 593.0 | 592.3 | 594.4 |
| North Dakota . | 70.8 | 71.1 | 68.5 | 69.4 | 69.7 | 71.1 | 70.3 | 70.4 | 70.5 | 70.9 | 71.1 | 70.9 | 70.9 |
| Ohio | 756.6 | 758.1 | 760.5 | 764.3 | 764.2 | 763.0 | 760.5 | 761.4 | 760.9 | 763.4 | 760.6 | 761.7 | 762.2 |
| Oklahoma | 274.4 | 275.1 | 269.3 | 270.7 | 272.6 | 278.7 | 276.8 | 277.6 | 277.3 | 277.6 | 278.7 | 280.4 | 279.8 |
| Oregon | 250.1 | 249.2 | 250.5 | 248.7 | 251.2 | 251.7 | 252.1 | 248.9 | 253.9 | 254.7 | 255.6 | 256.3 | 255.9 |
| Pennsylvania | 715.6 | 716.9 | 704.1 | 711.6 | 713.5 | 715.2 | 713.7 | 712.7 | 713.8 | 717.8 | 712.2 | 711.2 | 712.3 |
| Rhode island | 63.4 | 63.3 | 63.8 | 63.5 | 64.1 | 64.4 | 64.1 | 63.8 | 64.8 | 65.1 | 65.3 | 64.7 | 65.4 |
| South Carolina | 298.8 | 299.0 | 299.2 | 299.7 | 300.0 | 299.8 | 299.9 | 290.9 | 300.0 | 303.4 | 303.7 | 304.2 | 304.0 |
| South Dakota | 70.0 | 70.0 | 67.2 | 69.9 | 70.1 | 70.5 | 70.4 | 70.1 | 70.1 | 69.9 | 69.8 | 70.7 | 70.6 |
| Tennessee | 379.7 | 380.5 | 388.0 | 385.4 | 384.8 | 384.7 | 384.0 | 383.9 | 383.6 | 385.6 | 385.6 | 385.4 | 385.1 |
| Texas | 1,477.8 | 1,479.6 | 1,475.4 | 1,477.0 | 1,486.5 | 1,492.6 | 1,493.9 | 1,495.8 | 1,496.7 | 1,490.8 | 1,495.1 | 1,502.0 | 1,508.3 |
| Utah. | 170.8 | 171.4 | 171.7 | 171.8 | 172.0 | 172.7 | 172.7 | 174.3 | 174.8 | 175.0 | 175.7 | 177.5 | 178.2 |
| Vermont | 45.6 | 45.6 | 45.5 | 45.6 | 45.4 | 45.4 | 45.5 | 45.4 | 45.7 | 45.4 | 45.6 | 45.4 | 45.4 |
| Virginia | 596.7 | 595.6 | 596.0 | 591.0 | 594.0 | 594.4 | 597.8 | 598.6 | 598.5 | 595.7 | 596.7 | 597.2 | 598.3 |
| Washington | 456.5 | 455.9 | 459.2 | 4620 | 459.3 | 459.1 | 459.0 | 456.3 | 460.3 | 456.3 | 457.5 | 457.0 | 460.1 |
| West Virginia | 139.1 | 139.0 | 138.9 | 138.9 | 139.2 | 139.6 | 140.5 | 140.9 | 140.8 | 139.3 | 140.2 | 139.9 | 140.4 |
| Wisconsin | 384.5 | 386.7 | 386.5 | 383.2 | 385.2 | 385.6 | 387.9 | 387.7 | 388.7 | 390.0 | 391.3 | 390.0 | 392.5 |
| Wyoming ....... | 57.4 | 57.7 | 57.2 | 59.9 | 60.3 | 57.3 | 57.0 | 56.9 | 57.1 | 56.9 | 57.0 | 57.3 | 57.6 |
| 1 Includes mining, not shown separate <br> 2 Mining is combined with construction $\mathrm{P}=$ preliminary. | NOTE: All data have been adjusted to March 1997 benchmarks and incorporate updated seasonal adjustment factors. |  |  |  |  |  |  |  |  |  |  |  |  |

B-8. Average weekly hours of production or nonsupervisory workers' on private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted

| Industry | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.p | Mayp |
| Total private ............................................ | 34.7 | 34.5 | 34.5 | 34.7 | 34.6 | 34.6 | 34.7 | 34.7 | 34.8 | 34.7 | 34.6 | 34.5 | 34.7 |
| Goods-producing ............................................ | 41.4 | 41.2 | 41.3 | 41.3 | 41.3 | 41.3 | 41.2 | 41.4 | 41.6 | 41.4 | 41.0 | 40.8 | 41.0 |
| Mining ........................................................... | 45.8 | 45.6 | 45.3 | 45.6 | 45.1 | 45.2 | 45.2 | 44.9 | 45.4 | 44.4 | 43.8 | 44.2 | 44.6 |
| Construction .................................................. | 39.2 | 38.9 | 39.0 | 38.8 | 39.1 | 38.9 | 38.2 | 39.0 | 39.8 | 39.2 | 38.5 | 38.7 | 38.7 |
| Manufacturing ............................................... | 42.0 | 41.9 | 41.9 | 41.9 | 41.9 | 42.0 | 42.1 | 42.2 | 42.1 | 42.0 | 41.8 | 41.4 | 41.7 |
| Overtime hours ..................................... | 4.9 | 4.7 | 4.8 | 4.8 | 4.7 | 4.8 | 4.9 | 4.9 | 4.9 | 4.8 | 4.8 | 4.5 | 4.6 |
| Durable goods .............................................. | 42.9 | 42.7 | 42.7 | 42.8 | 42.7 | 42.8 | 42.9 | 43.0 | 42.8 | 42.8 | 42.5 | 41.9 | 42.2 |
| Overtime hours | 5.2 | 5.0 | 5.1 | 5.1 | 5.0 | 5.1 | 5.2 | 5.2 | 5.2 | 5.1 | 5.0 | 4.6 | 4.8 |
| Lumber and wood products | 41.1 | 41.3 | 41.2 | 41.0 | 40.9 | 41.0 | 41.1 | 41.0 | 41.2 | 41.1 | 41.2 | 41.2 | 41.1 |
| Furniture and fixtures ..................................... | 40.3 | 40.0 | 40.0 | 40.2 | 40.4 | 40.4 | 40.6 | 40.7 | 41.0 | 41.0 | 40.7 | 40.7 | 40.9 |
| Stone, clay, and glass products | 43.3 | 43.0 | 43.2 | 43.1 | 43.2 | 43.2 | 42.9 | 43.6 | 43.7 | 43.6 | 43.2 | 43.3 | 43.7 |
| Primary metal industries ........... | 44.9 | 44.8 | 44.6 | 45.0 | 45.0 | 45.2 | 45.2 | 45.2 | 45.2 | 44.8 | 44.6 | 43.9 | 44.2 |
| Blast furnaces and basic steel products ........... | 44.9 | 44.7 | 44.3 | 45.1 | 45.0 | 45.4 | 45.3 | 45.4 | 46.0 | 45.4 | 45.3 | 44.8 | 45.5 |
| Fabricated metal products .............................. | 42.6 | 42.5 | 42.5 | 42.5 | 42.5 | 42.6 | 42.7 | 42.9 | 42.7 | 42.7 | 42.4 | 41.8 | 41.2 |
| Industrial machinery and equipment ................. | 43.6 | 43.4 | 43.5 | 43.5 | 43.5 | 43.6 | 43.7 | 43.7 | 43.6 | 43.4 | 43.3 | 42.6 | 43.1 |
| Electronic and other electrical equipment ........... | 42.1 | 42.0 | 42.1 | 41.9 | 41.8 | 41.9 | 42.0 | 42.0 | 41.8 | 41.9 | 41.4 | 41.0 | 41.4 |
| Transportation equipment ............................... | 44.5 | 44.3 | 44.1 | 44.4 | 44.0 | 44.3 | 44.1 | 44.5 | 43.9 | 43.8 | 43.4 | 42.1 | 43.4 |
| Motor vehicles and equipment ....................... | 45.1 | 44.9 | 44.4 | 44.9 | 44.3 | 44.6 | 44.5 | 44.9 | 43.9 | 43.8 | 43.5 | 42.0 | 43.3 |
| Instruments and related products ..................... | 42.0 | 41.9 | 41.8 | 42.2 | 42.0 | 42.0 | 42.2 | 41.9 | 41.9 | 42.0 | 41.5 | 41.3 | 41.4 |
| Miscellaneous manfacturing ........................... | 40.2 | 40.2 | 40.4 | 40.2 | 40.3 | 40.4 | 40.5 | 40.6 | 40.4 | 40.4 | 40.5 | 40.1 | 39.9 |
| Nondurable goods ........................................ | 40.8 | 40.7 | 40.7 | 40.7 | 40.8 | 40.9 | 41.0 | 41.0 | 41.1 | 40.9 | 40.8 | 40.7 | 40.8 |
| Overtime hours ...................................... | 4.4 | 4.2 | 4.3 | 4.3 | 4.3 | 4.4 | 4.5 | 4.4 | 4.4 | 4.4 | 4.4 | 4.2 | 4.4 |
| Food and kindred products ............................. | 41.4 | 41.0 | 41.2 | 41.2 | 41.2 | 41.3 | 41.5 | 41.6 | 41.8 | 41.5 | 41.5 | 41.2 | 41.6 |
| Tobacco products ......................................... | 38.8 | 38.3 | 36.6 | 38.0 | 38.2 | 39.1 | 39.0 | 38.8 | 38.3 | 38.5 | 37.7 | 38.1 | 39.0 |
| Textile mill products ...... | 41.4 | 41.3 | 41.4 | 41.3 | 41.5 | 41.5 | 41.5 | 41.7 | 41.8 | 41.5 | 41.2 | 41.0 | 41.3 |
| Apparel and other textile products | 37.2 | 37.3 | 37.1 | 37.1 | 37.3 | 37.3 | 37.2 | 37.5 | 37.4 | 37.4 | 37.2 | 37.7 | 37.5 |
| Paper and allied products ............................... | 43.8 | 43.5 | 43.5 | 43.5 | 43.6 | 43.7 | 44.0 | 43.7 | 43.6 | 43.4 | 43.4 | 43.0 | 43.6 |
| Printing and publisting .................................. | 38.4 | 38.3 | 38.4 | 38.3 | 38.6 | 38.6 | 38.8 | 38.6 | 38.5 | 38.5 | 38.4 | 38.2 | 38.3 |
| Chemicals and allied products ........................ | 43.3 | 43.1 | 43.1 | 43.3 | 43.3 | 43.4 | 43.4 | 43.2 | 43.5 | 43.4 | 43.4 | 43.0 | 42.1 |
| Petroleum and coal products .......................... | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| Rubber and misc. plastics products .................. | 41.7 | 41.6 | 41.7 | 41.8 | 41.7 | 42.1 | 42.0 | 42.1 | 42.0 | 41.8 | 41.5 | 41.6 | 42.0 |
| Leather and leather products .......................... | 38.3 | 38.3 | 38.3 | 38.1 | 38.4 | 38.3 | 38.2 | 38.4 | 38.3 | 38.8 | 37.9 | 37.5 | 37.8 |
| Service-producing ............................................ | 32.9 | 32.7 | 32.7 | 32.9 | 32.8 | 32.9 | 32.9 | 32.9 | 33.0 | 33.0 | 32.8 | 32.9 | 33.0 |
| Transportation and public utilities .................... | 39.6 | 39.5 | 39.3 | 40.1 | 39.9 | 39.8 | 39.9 | 39.9 | 40.0 | 39.9 | 39.8 | 39.6 | 40.0 |
| Wholesale trade | 38.6 | 38.4 | 38.3 | 38.4 | 38.4 | 38.4 | 38.5 | 38.3 | 38.5 | 38.5 | 38.3 | 38.3 | 38.5 |
| Retail trade .................................................... | 28.9 | 28.8 | 28.9 | 29.0 | 28.9 | 29.0 | 29.0 | 28.9 | 29.0 | 29.0 | 28.9 | 29.0 | 29.1 |
| Finance, insurance, and real estate .................. | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) | (2) |
| Services | 32.6 | 32.5 | 32.5 | 32.7 | 32.6 | 32.6 | 32.7 | 32.7 | 32.8 | 32.7 | 32.6 | 32.6 | 32.7 |

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, which are small relative to the trend-cycie and irregular
components, cannot be separated with sufficient precision.
$\mathrm{P}=$ preliminary.
NOTE: Data have been revised 10 reflect March 1997 benchmarks, refinements to the seasonal adjustment process for the hours series, and recomputed seasonal adjustment factors. See the anticle in this issue for additional information.

ESTABLISHMENT DATA
HOURS
SEASONALLY ADJUSTED
B-9. Indexes of aggregate weekly hours of production or nonsupervisory workers ${ }^{1}$ an private nonfarm payrolls by major industry and manufacturing group, seasonally adjusted
$(1982=100)$

| Industry | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.p | Mayp |
| Total private ........................................... | 141.2 | 140.9 | 141.3 | 141.7 | 142.1 | 142.6 | 143.2 | 143.6 | 144.6 | 144.4 | 143.8 | 143.9 | 144.9 |
| Goods-producing | 114.5 | 114.0 | 114.2 | 114.4 | 114.6 | 114.9 | 114.9 | 116.0 | 117.1 | 116.4 | 115.1 | 114.7 | 115.1 |
| Mining | 58.7 | 58.0 | 57.8 | 58.1 | 57.6 | 57.8 | 57.9 | 57.5 | 58.3 | 57.0 | 55.6 | 55.5 | 56.1 |
| Construction .................................................. | 156.6 | 155.3 | 156.1 | 155.7 | 157.1 | 156.3 | 154.4 | 159.3 | 165.0 | 162.4 | 158.7 | 161.4 | 160.7 |
| Manufacturing ................................................. | 109.1 | 108.8 | 108.9 | 109.2 | 109.2 | 109.8 | 110.1 | 110.6 | 110.6 | 110.3 | 109.7 | 108.6 | 109.1 |
| Durable goods | 112.2 | 112.2 | 112.3 | 113.0 | 112.8 | 113.5 | 113.9 | 114.6 | 114.6 | 114.5 | 113.7 | 112.1 | 112.7 |
| Lumber and wood products | 142.1 | 142.6 | 142.3 | 141.6 | 141.2 | 141.8 | 142.3 | 142.6 | 143.8 | 143.4 | 143.6 | 143.6 | 143.2 |
| Furniture and fixtures ..... | 128.0 | 127.3 | 127.9 | 128.0 | 128.6 | 128.9 | 130.2 | 131.1 | 132.8 | 133.1 | 132.7 | 133.7 | 134.7 |
| Stone, clay, and glass products | 112.3 | 111.3 | 112.6 | 112.3 | 112.6 | 113.1 | 112.6 | 114.9 | 116.5 | 116.2 | 113.9 | 114.1 | 115.4 |
| Primary metal industries ................................. | 94.1 | 93.9 | 93.7 | 95.2 | 95.4 | 95.8 | 95.9 | 96.3 | 96.6 | 95.8 | 95.5 | 93.7 | 94.2 |
| Blast furnaces and basic steel products | 72.5 | 72.6 | 72.0 | 73.3 | 73.5 | 73.8 | 74.0 | 73.8 | 75.6 | 74.6 | 74.4 | 73.2 | 74.3 |
| Fabricated metal products .............................. | 117.3 | 117.3 | 117.2 | 117.8 | 117.9 | 118.5 | 119.0 | 119.9 | 119.8 | 120.1 | 119.1 | 117.5 | 115.4 |
| Industrial machinery and equipment .................. | 108.9 | 108.9 | 109.3 | 109.8 | 109.9 | 110.9 | 111.4 | 111.7 | 111.7 | 111.3 | 111.1 | 109.1 | 110.3 |
| Electronic and other electrical equipment .......... | 110.6 | 110.7 | 111.4 | 111.3 | 111.3 | 111.9 | 112.4 | 113.0 | 112.8 | 112.8 | 111.3 | 110.0 | 110.9 |
| Transportation equipment .. | 127.7 | 128.0 | 127.7 | 130.5 | 128.7 | 130.2 | 131.0 | 131.8 | 130.0 | 130.1 | 128.7 | 124.4 | 127.5 |
| Motor vehicles and equipment ....................... | 167.4 | 168.2 | 166.5 | 171.6 | 167.6 | 169.2 | 169.9 | 171.2 | 166.8 | 166.6 | 164.6 | 158.7 | 162.2 |
| Instruments and related products ..................... | 76.3 | 76.5 | 76.1 | 76.7 | 76.7 | 76.7 | 77.0 | 76.9 | 77.4 | 77.6 | 76.8 | 76.5 | 76.8 |
| Miscellaneous manfacturing ........................... | 104.0 | 103.7 | 104.2 | 103.7 | 103.2 | 103.4 | 102.9 | 103.9 | 103.8 | 103.8 | 104.1 | 103.4 | 101.8 |
| Nondurable goods ......................................... | 104.8 | 104.2 | 104.1 | 103.9 | 104.3 | 104.6 | 104.9 | 105.1 | 105.2 | 104.6 | 104.3 | 103.8 | 104.1 |
| Food and kindred products .............................. | 117.1 | 116.0 | 116.2 | 115.9 | 116.4 | 116.8 | 117.8 | 118.4 | 119.2 | 118.5 | 118.5 | 118.0 | 119.4 |
| Tobacco products ......................................... | 61.5 | 60.7 | 58.0 | 56.5 | 58.6 | 62.0 | 63.7 | 61.5 | 60.7 | 61.0 | 59.7 | 62.3 | 61.8 |
| Textile mill products ....................................... | 90.0 | 89.6 | 90.0 | 88.9 | 89.5 | 89.7 | 89.3 | 89.9 | 89.6 | 88.6 | 87.8 | 87.4 | 87.9 |
| Apparel and other textile products .................... | 74.2 | 74.2 | 73.4 | 73.0 | 72.8 | 72.6 | 72.0 | 72.2 | 71.6 | 70.8 | 70.2 | 69.9 | 68.8 |
| Paper and allied products ............................... | 111.7 | 110.7 | 110.7 | 110.3 | 110.8 | 111.2 | 112.2 | 111.6 | 111.6 | 111.1 | 111.1 | 109.6 | 110.8 |
| Printing and publishing ...... | 126.3 | 126.1 | 126.1 | 125.5 | 126.2 | 126.5 | 127.2 | 126.7 | 126.3 | 126.0 | 125.3 | 124.7 | 124.9 |
| Chemicals and allied products ......................... | 100.8 | 100.4 | 100.4 | 100.8 | 101.4 | 102.0 | 102.1 | 102.0 | 103.1 | 103.2 | 103.4 | 102.6 | 102.2 |
| Petroleum and coal products ........................... | 76.2 | 75.0 | 74.5 | 75.6 | 75.0 | 74.0 | 74.4 | 74.2 | 75.0 | 71.9 | 73.6 | 72.4 | 72.3 |
| Rubber and misc. plastics products .................. | 145.6 | 145.3 | 145.2 | 146.0 | 146.0 | 147.4 | 147.2 | 148.2 | 148.4 | 147.9 | 147.2 | 147.5 | 148.6 |
| Leather and leather products ........................... | 41.8 | 40.6 | 40.0 | 39.2 | 39.5 | 39.4 | 38.7 | 38.9 | 38.3 | 38.7 | 37.3 | 36.3 | 36.0 |
| Service-producing ........................................... | 153.2 | 153.0 | 153.5 | 154.0 | 154.5 | 155.0 | 155.9 | 156.0 | 156.9 | 157.0 | 156.7 | 157.0 | 158.3 |
| Transportation and public utilities .................... | 130.3 | 130.0 | 129.3 | 127.5 | 131.2 | 130.9 | 131.1 | 131.0 | 131.5 | 131.1 | 130.9 | 130.2 | 132.3 |
| Wholesale trade .............................................. | 126.4 | 125.8 | 125.8 | 126.4 | 126.4 | 126.7 | 127.2 | 126.9 | 128.0 | 128.2 | 127.6 | 127.8 | 128.6 |
| Retail trade ..................................................... | 137.5 | 137.2 | 137.7 | 138.4 | 138.1 | 138.9 | 139.4 | 139.2 | 139.8 | 139.9 | 139.3 | 139.8 | 141.0 |
| Finance, insurance, and real estate .................. | 129.0 | 128.8 | 129.2 | 129.8 | 129.3 | 130.2 | 131.5 | 130.9 | 132.5 | 133.4 | 133.6 | 134.1 | 134.8 |
| Services .......................................................... | 185.8 | 185.9 | 186.8 | 187.9 | 188.4 | 189.0 | 190.3 | 191.0 | 192.1 | 192.0 | 191.9 | 192.3 | 198.7 |

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 have been revised to reflect March 1997 benchmarks, refinements to the seasonal adjustment process for the hours series, and recomputed seasonal adjustment factors. See the article in this issue for additional information.

B-10. Hours of wage and salary workers on nonfarm payrolls by major Industry, seasonally adjusted

| Industry | Millions of hours (annual rate) ${ }^{1}$ |  |  | Percent change |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { March } \\ & 1998^{\prime} \end{aligned}$ | $\begin{aligned} & \text { April } \\ & 1998^{\prime} \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ | $\begin{gathered} \text { May } 1997 \\ \text { to } \\ \text { May } 1999^{p} \\ \hline \end{gathered}$ | March 1998 to April 1998' | April 1998 To May 1998 ${ }^{\text {p }}$ |
| Total ....................................... | 228,873 | 229,269 | 230,694 | 2.9 | 0.2 | 0.6 |
| Private sector ........................................... | 191,790 | 192,250 | 193,388 | 2.9 | . 2 | . 6 |
| Mining ................................................... | 1,333 | 1,337 | 1,350 | -4.2 | . 3 | . 9 |
| Construction .......................................... | 11,732 | 11,925 | 11,907 | 3.0 | 1.7 | -. 2 |
| Manufacturing ......................................... | 40,911 | 40,642 | 40,758 | . 4 | -. 7 | . 3 |
| Durable goods ..................................... | 24,593 | 24,376 | 24,479 | 1.0 | -. 9 | . 4 |
| Nondurable goods ................................ | 16,318 | 16,267 | 16,278 | -. 5 | -. 3 | . 1 |
| Transportation and public utilities ............... | 13,440 | 13,433 | 13,620 | 3.1 | . 0 | 1.4 |
| Wholesale trade ...................................... | 13,509 | 13,537 | 13,626 | 2.5 | . 2 | . 7 |
| Retail trade ............................................. | 33,451 | 33,671 | 33,921 | 2.6 | . 7 | . 7 |
| Finance, insurance, and real estate ........... | 13,734 | 13,776 | 13,834 | 3.9 | . 3 | . 4 |
| Services ................................................ | 63,681 | 63,928 | 64,372 | 4.5 | . 4 | . 7 |
| Government ............................................. | 37,083 | 37,019 | 37,306 | 3.1 | -. 2 | . 8 |

[^18]largely on establishment data. See BLS Handbook of Methods, BLS Bulletin 2490, chapter 10, "Productivity Measures: Business Sector and Major Subsectors".
SOURCE: Office of Productivity and Technology (202-606-5606). Historical data for this series also are available on the Intemet at the following address: ftpJ/ftp.bls.gov/pub/special.requests/opthableb10

## ESTABLISHMENT DATA

EARNINGS
SEASONALLY ADJUSTED
B-11. Average hourly and weekly earnings of production or nonsupervisory workers' on private nonfarm payrolls by major industry, seasonally adjusted

| Industry | 1997 |  |  |  |  |  |  |  | 1998 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.P | Mayp |
|  | Average hourly earnings |  |  |  |  |  |  |  |  |  |  |  |  |
| Total private (in current dollars) ....................... | \$12.21 | \$12.24 | \$12.27 | \$12.34 | \$12.37 | \$12.43 | \$12.47 | \$12.50 | \$12.54 | \$12.59 | \$12.63 | \$12.69 | \$12.73 |
| Goods-producing | 13.85 | 13.86 | 13.89 | 13.95 | 13.98 | 14.05 | 14.10 | 14.15 | 14.16 | 14.21 | 14.25 | 14.26 | 14.28 |
| Mining | 16.09 | 16.14 | 16.15 | 16.16 | 16.24 | 16.37 | 16.48 | 16.46 | 16.47 | 16.76 | 16.82 | 16.70 | 16.80 |
| Construction | 15.93 | 15.97 | 15.99 | 16.06 | 16.10 | 16.17 | 16.24 | 16.34 | 16.27 | 16.34 | 16.40 | 16.46 | 16.49 |
| Manufacturing | 13.10 | 13.11 | 13.13 | 13.20 | 13.22 | 13.30 | 13.34 | 13.37 | 13.38 | 13.42 | 13.46 | 13.44 | 13.47 |
| Excluding overtime ${ }^{2}$................................ | 12.38 | 12.42 | 12.42 | 12.49 | 12.50 | 12.58 | 12.61 | 12.63 | 12.66 | 12.69 | 12.73 | 12.76 | 12.77 |
| Service-producing ...................................... | 11.66 | 11.70 | 11.73 | 11.80 | 11.83 | 11.88 | 11.93 | 11.95 | 12.00 | 12.06 | 12.10 | 12.18 | 12.22 |
| Transportation and public utilities ............... | 14.83 | 14.89 | 14.99 | 15.02 | 15.01 | 15.05 | 15.10 | 15.16 | 15.21 | 15.25 | 15.27 | 15.31 | 15.30 |
| Wholesale trade | 13.37 | 13.37 | 13.45 | 13.56 | 13.54 | 13.63 | 13.72 | 13.71 | 13.75 | 13.81 | 13.84 | 13.90 | 14.01 |
| Retail trade | 8.28 | 8.30 | 8.33 | 8.37 | 8.42 | 8.46 | 8.49 | 8.51 | 8.56 | 8.59 | 8.64 | 8.71 | 8.74 |
| Finance, insurance, and real estate | 13.25 | 13.31 | 13.36 | 13.51 | 13.53 | 13.60 | 13.65 | 13.66 | 13.72 | 13.83 | 13.85 | 14.00 | 14.01 |
| Services ................................................... | 12.22 | 12.26 | 12.28 | 12.35 | 12.38 | 12.43 | 12.48 | 12.50 | 12.54 | 12.60 | 12.65 | 12.74 | 12.79 |
| Total private (in constant (1982) dollars) ${ }^{3}$ | 7.53 | 7.54 | 7.55 | 7.58 | 7.58 | 7.60 | 7.62 | 7.63 | 7.66 | 7.69 | 7.72 | 7.73 | (4) |
| Goods-producing | 8.54 | 8.54 | 8.55 | 8.56 | 8.56 | 8.59 | 8.61 | 8.64 | 8.64 | 8.68 | 8.70 | 8.69 | (4) |
| Service-producing ..................................... | 7.19 | 7.21 | 7.22 | 7.24 | 7.24 | 7.26 | 7.29 | 7.30 | 7.33 | 7.36 | 7.39 | 7.42 | (4) |
|  | Average weekly earnings |  |  |  |  |  |  |  |  |  |  |  |  |
| Total private (in current doilars) ....................... | 423.69 | 422.28 | 423.32 | 428.20 | 428.00 | 430.08 | 432.71 | 433.75 | 436.39 | 436.87 | 437.00 | 437.81 | 441.73 |
| Goods-producing | 573.39 | 571.03 | 573.65 | 576.14 | 577.37 | 580.27 | 580.92 | 585.81 | 589.06 | 588.29 | 584.25 | 581.81 | 585.48 |
| Mining | 736.92 | 735.98 | 731.60 | 736.90 | 732.42 | 739.92 | 744.90 | 739.05 | 747.74 | 744.14 | 736.72 | 738.14 | 749.28 |
| Construction | 624.46 | 621.23 | 623.61 | 623.13 | 629.51 | 629.01 | 620.37 | 637.26 | 647.55 | 640.53 | 631.40 | 637.00 | 638.16 |
| Manufacturing | 550.20 | 549.31 | 550.15 | 553.08 | 553.92 | 558.60 | 561.61 | 564.21 | 563.30 | 563.64 | 562.63 | 556.42 | 561.70 |
| Service-producing ....................................... | 383.61 | 382.59 | 383.57 | 388.22 | 388.02 | 390.85 | 392.50 | 393.16 | 396.00 | 397.98 | 396.88 | 400.72 | 403.26 |
| Transportation and public utilities .............. | 587.27 | 588.16 | 589.11 | 602.30 | 598.90 | 598.99 | 602.49 | 604.88 | 608.40 | 608.48 | 607.75 | 606.28 | 612.00 |
| Wholesale trade | 516.08 | 513.41 | 515.14 | 520.70 | 519.94 | 523.39 | 528.22 | 525.09 | 529.38 | 531.69 | 530.07 | 532.37 | 539.39 |
| Retail trade | 239.29 | 239.04 | 240.74 | 242.73 | 243.34 | 245.34 | 246.21 | 245.94 | 248.24 | 249.11 | 249.70 | 252.59 | 254.33 |
| Finance, insurance, and real estate $\qquad$ Services | $(5)$ 398.37 | $(5)$ 398.45 | (5) 399.10 | (5) 403.85 | (5) 403.59 | $(5)$ 405.22 | (5) 408.10 | $\stackrel{(5)}{408.75}$ | (5) 411.31 | $\stackrel{(5)}{412.02}$ | (5) 412.39 | $\stackrel{(5)}{415.32}$ | $\begin{gathered} (5) \\ 418.23 \end{gathered}$ |
| Total private (in constant (1982) dollars) ${ }^{3}$ | 261.38 | 260.18 | 260.50 | 262.86 | 262.09 | 262.89 | 264.33 | 264.80 | 266.42 | 266.71 | 266.95 | 266.79 | (4) |
| Goods-producing | 353.73 | 351.84 | 353.02 | 353.68 | 353.56 | 354.69 | 354.87 | 357.64 | 359.62 | 359.15 | 356.90 | 354.55 | (4) |
| Service-producing ... | 236.65 | 235.73 | 236.04 | 238.32 | 237.61 | 238.91 | 239.77 | 240.02 | 241.76 | 242.97 | 242.44 | 244.19 | (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; tinance, insurance and real estate; and services.

2 Derived by assuming that overtime hours are paid at the rate of time and one-half.
${ }^{3}$ The Consumer Price Index for Urban Wager Earners and Clerical Workers (CPI-W) is used to deflate these series.
${ }^{4}$ Not available.
5 This series is not computed because the average weekly hours' component is not available on a seasonally adjusted basis.
$\mathrm{P}=$ preliminary.
NOTE: Data have been revised to reflect March 1997 benchmarks, refinements to the seasonal adjustment process for the hours and earnings series, and recomputed seasonal adjustment factors. See the article in this issue for additional information.

## B-12. Employees on nonfarm payrolls by detailed industry

(In thousands)

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. 1997 | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ 1998 \mathrm{p} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \mathrm{P} \end{gathered}$ |
| Total |  | 122,690 | 121,882 | 124,006 | 125,068 | 126,114 | - | - | - | - | - |
| Total private |  | 103,120 | 102,017 | 103,880 | 104,938 | 105,926 | 84,529 | 83,574 | 84,873 | 85,798 | 86,714 |
| Mining .................................................................. |  | 592 | 585 | 577 | 577 | 581 | 446 | 440 | 437 | 437 | 441 |
| Metal mining | 10 | 53.7 | 53.4 | 50.4 | 50.3 | 50.8 | 41.3 | 41.2 | 38.4 | 38.3 | - |
| Iron ores ... | 101 | 8.6 | 8.5 | 8.3 | B. 3 | - | 7.1 | 7.0 | 6.9 | 6.9 | - |
| Copper ores .......................................................................... | 102 | 15.9 | 15.8 | 15.4 | 15.3 | - | 12.0 | 12.0 | 11.6 | 11.5 | - |
| Coal mining | 12 | 95.8 | 96.7 | 93.0 | 92.1 | 91.6 | 78.6 | 79.5 | 76.1 | 75.4 | - |
| Bituminous coal and lignite mining ................................................................... | 122 | 90.0 | 90.7 | 87.5 | 86.6 | - | 73.7 | 74.4 | 71.4 | 70.7 | - |
| Oil and gas extraction | 13 | 334.6 | 328.3 | 330.8 | 327.6 | 329.0 | 244.9 | 238.6 | 244.4 | 241.9 | - |
| Crude petroleum and natural gas ........................... | 131 | 142.6 | 142.2 | 136.3 | 135.5 | - | 81.8 | 80.9 | 79.2 | 78.9 | - |
| Oil and gas field services ....................................... | 138 | 187.0 | 181.2 | 189.5 | 187.2 | - | 159.1 | 153.8 | 161.0 | 158.8 | - |
| Nonmetallic minerals, except fuels ............................ | 14 | 107.5 | 106.8 | 102.8 | 107.0 | 109.5 | 81.4 | 80.9 | 77.6 | 81.5 | - |
| Crushed and broken stone ..................................... | 142 | 41.3 | 41.4 | 39.4 | 41.1 | - | 32.3 | 32.4 | 30.5 | 32.2 | - |
| Sand and gravel | 144 | 35.8 | 34.8 | 33.3 | 35.6 | - | - | - | - | - | - |
| Chemical and fertilizer minerals ............................. | 147 | 11.8 | 11.9 | 11.8 | 11.7 | - | - | - | - | - |  |
| Construction ........................................................ |  | 5,686 | 5,493 | 5,459 | 5,755 | 5,971 | 4,409 | 4,231 | 4,150 | 4,434 | 4,632 |
| General building contractors ..................................... | 15 | 1,316.3 | 1,270.9 | 1,300.6 | 1,345.7 | 1,378.7 | 928.2 | 888.5 | 897.3 | 936.4 | - |
| Residential building construction ............................. | 152 | 681.7 | 658.1 | 681.6 | 706.1 | - | 462.9 | 442.3 | 454.7 | 475.3 | - |
| Operative builders ............................................... | 153 | 27.0 | 26.8 | 27.3 | 27.8 | - | 11.0 | 10.8 | 10.7 | 11.1 | - |
| Nonresidential building construction ........................ | 154 | 607.6 | 586.0 | 591.7 | 611.8 | - | 454.3 | 435.4 | 431.9 | 450.0 | - |
| Heavy construction, except building .......................... | 16 | 795.2 | 771.6 | 713.6 | 790.6 | 846.8 | 663.5 | 641.4 | 584.1 | 658.7 | - |
| Highway and street construction ............................ | 161 | 241.8 | 225.0 | 185.4 | 232.7 | - | 197.3 | 181.3 | 141.1 | 187.5 | - |
| Heavy construction, except highway ....................... | 162 | 553.3 | 546.6 | 528.2 | 557.9 | - | 466.2 | 460.1 | 443.0 | 471.2 | - |
| Special trade contractors ....................................... | 17 | 3,574.7 | 3,450.6 | 3,445.1 | 3,618.6 | 3,745.7 | 2,817.0 | 2,700.6 | 2,668.9 | 2,839.2 | - |
| Plumbing, heating, and air conditioning .................... | 179 | 792.3 | 772.1 | 783.8 | 793.2 | - | 585.7 | 567.5 | 572.5 | 581.6 | - |
| Painting and paper hanging ................................... | 172 | 199.0 | 188.2 | 181.5 | 196.5 | - | 164.8 | 154.3 | 146.4 | 162.1 | - |
| Electrical work ..................................................... | 173 | 681.4 | 654.6 | 694.0 | 696.9 | - | 539.2 | 513.7 | 546.7 | 548.2 | - |
| Masonry, stonework, and plastering ........................ | 174 | 468.4 | 454.1 | 461.9 | 485.3 | - | 402.8 | 388.4 | 394.7 | 417.6 | - |
| Carpentry and floor work ....................................... | 175 | 253.9 | 246.4 | 253.3 | 257.7 | - | 194.8 | 187.6 | 190.5 | 195.0 | - |
| Roofing, siding, and sheet metal work ...................... | 176 | 241.0 | 234.2 | 214.6 | 239.5 | - | 192.1 | 186.4 | 164.0 | 188.3 | - |
| Manufacturing ...................................................... |  | 18,657 | 18,531 | 18,744 | 18,746 | 18,766 | 12,896 | 12,800 | 12,954 | 12,942 | 12,958 |
| Durable goods |  | 10,987 | 10,911 | 11,140 | 11,153 | 11,162 | 7.539 | 7,486 | 7,657 | 7,660 | 7,660 |
| Lumber and wood products ................................... | 24 | 793.1 | 782.6 | 785.7 | 790.2 | 798.7 | 652.8 | 643.3 | 645.4 | 649.2 | 656.2 |
| Logging ............................................................. | 241 | 81.9 | 76.6 | 74.2 | 72.7 | - | 65.5 | 60.6 | 58.2 | 56.6 | - |
| Sawmills and planing mills ............. | 242 | 182.0 | 180.9 | 180.4 | 181.2 | - | 158.6 | 157.6 | 157.3 | 158.1 | - |
| Sawmills and planing mills, general . | 2421 | 144.1 | 143.5 | 141.8 | 142.7 | - | 125.1 | 124.6 | 123.1 | 124.0 | - |
| Hardwood dimension and flooring mills ................. | 2426 | 36.0 | 35.5 | 36.7 | 36.5 | - | 31.9 | 31.4 | 32.6 | 32.4 | - |
| Millwork, plywood, and structural members | 243 | 293.6 | 290.1 | 296.5 | 298.9 | - | 235.7 | 232.8 | 237.8 | 240.2 | - |
| Millwork ................................ | 2431 | 116.8 | 115.5 | 117.1 | 118.3 | - | 89.8 | 88.8 | 90.6 | 91.8 | - |
| Wood kitchen cabinets | 2434 | 81.0 | 79.8 | 82.9 | 83.4 | - | 65.5 | 64.3 | 66.7 | 67.4 | - |
| Hardwood veneer and plywood | 2435 | 28.4 | 28.4 | 29.3 | 28.8 | - | 24.1 | 24.2 | 25.0 | 24.6 | - |
| Softwood veneer and plywood | 2436 | 29.2 | 28.9 | 28.5 | 28.9 | - | 27.0 | 26.9 | 25.9 | 26.1 | - |
| Wood containers ............. | 244 | 53.7 | 53.7 | 53.5 | 53.7 | - | 45.9 | 45.8 | 45.7 | 45.8 | - |
| Wood buildings and mobile homes ........................ | 245 | 92.5 | 91.6 | 92.7 | 94.6 | - | 74.2 | 73.4 | 74.2 | 75.9 | - |
| Mobile homes ........................... | 2451 | 70.2 | 69.9 | 70.8 | 72.0 | - | 58.9 | 58.4 | 59.2 | 60.5 | - |
| Miscellaneous wood products .. | 249 | 89.4 | 89.7 | 88.4 | 89.1 | - | 72.9 | 73.1 | 72.2 | 72.6 | - |
| Furniture and fixtures. | 25 | 510.1 | 508.3 | 521.1 | 523.7 | 525.1 | 405.1 | 403.1 | 415.8 | 418.1 | 418.6 |
| Househoid furniture | 251 | 276.8 | 278.6 | 283.6 | 284.4 | - | 233.6 | 235.2 | 240.6 | 241.1 | - |
| Wood househoid furniture .................................. | 2511 | 125.2 | 126.8 | 125.5 | 126.1 | - | 108.5 | 109.9 | 108.8 | 109.5 | - |
| Upholstered household furniture ......................... | 2512 | 86.7 | 86.6 | 89.0 | 89.6 | - | 73.1 | 73.2 | 75.5 | 75.8 | - |
| Metal household furniture. | 2514 | 19.7 | 20.7 | 22.3 | 21.9 | - | 16.3 | 17.2 | 19.0 | 18.6 | - |
| Mattresses and bedsprings ...... | 2515 | 33.4 | 32.6 | 35.1 | 35.1 | - | 25.8 | 25.0 | 27.4 | 27.4 | - |

See footnotes at end of table.

B-12. Employees on nonfarm payrolls by detailed industry-Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. <br> 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. 1997 | Apr. 1997 | Mar. 1998 | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Furniture and fixtures-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Office furniture | 252 | 63.4 | 62.3 | 65.0 | 65.1 | - | 46.8 | 45.9 | 48.2 | 48.2 | - |
| Public building and related furniture ....................... | 253 | 43.3 | 43.1 | 44.4 | 45.1 | - | 34.1 | 34.0 | 34.7 | 35.3 | - |
| Partitions and fixtures | 254 | 87.1 | 85.1 | 88.0 | 88.5 | - | 64.5 | 62.3 | 65.8 | 66.3 | - |
| Miscellaneous furniture and fixtures | 259 | 39.5 | 39.2 | 40.1 | 40.6 | - | 26.0 | 25.7 | 26.5 | 27.2 | - |
| Stone, clay, and glass products | 32 | 552.3 | 549.7 | 546.4 | 559.4 | 564.3 | 430.9 | 427.3 | 426.0 | 437.0 | 441.2 |
| Flat glass | 321 | 16.8 | 16.8 | 16.6 | 16.5 | - | 13.5 | 13.5 | 13.3 | 13.2 | - |
| Glass and glassware, pressed or blown | 322 | 72.0 | 71.8 | 72.4 | 71.6 | - | 59.8 | 59.6 | 59.9 | 59.0 | - |
| Glass containers | 3221 | 26.3 | 26.6 | 25.5 | 25.4 | - | 23.6 | 23.8 | 22.8 | 22.7 | - |
| Pressed and blown glass, nec | 3229 | 45.7 | 45.2 | 46.9 | 46.2 | - | 36.3 | 35.8 | 37.1 | 36.3 | - |
| Products of purchased glass | 323 | 62.7 | 61.7 | 63.0 | 62.8 | - | 49.0 | 47.9 | 49.1 | 48.8 | - |
| Cement, hydraulic. | 324 | 17.3 | 17.1 | 17.3 | 17.4 | - | 13.2 | 13.0 | 13.1 | 13.1 | - |
| Structural clay products | 325 | 34.1 | 34.5 | 32.6 | 33.2 | - | 26.6 | 27.1 | 25.2 | 25.8 | - |
| Pottery and related products | 326 | 39.2 | 39.7 | 38.3 | 38.6 | - | 31.0 | 31.4 | 30.1 | 30.3 | - |
| Concrete, gypsum, and plaster products | 327 | 216.8 | 214.9 | 208.4 | 220.9 | - | 166.4 | 164.2 | 159.1 | 170.3 | - |
| Concrete block and brick | 3271 | 18.2 | 18.1 | 17.6 | 18.2 | - | 11.7 | 11.6 | 11.2 | 11.5 | - |
| Concrete products, nec | 3272 | 73.0 | 72.6 | 73.0 | 74.5 | - | 55.5 | 54.8 | 55.9 | 57.1 | - |
| Ready-mixed concrete | 3273 | 107.7 | 106.5 | 99.9 | 110.3 | - | 85.2 | 83.9 | 77.8 | 87.6 | - |
| Misc. nonmetallic mineral products | 329 | 78.6 | 78.4 | 78.9 | 79.3 | - | 60.4 | 59.9 | 61.1 | 61.4 | - |
| Abrasive products | 3291 | 20.0 | 19.9 | 20.2 | 20.5 | - | 15.9 | 15.7 | 16.2 | 16.4 | - |
| Asbestos products ............................................ | 3292 | 2.5 | 2.6 | 2.5 | 2.5 | - | 2.1 | 2.1 | 2.1 | 2.1 | - |
| Mineral wool .................................................... | 3296 | 24.1 | 23.9 | 24.1 | 24.1 | - | - | - | - | - | - |
| Primary metal industries ....................................... | 33 | 710.7 | 708.1 | 719.3 | 716.7 | 715.9 | 555.5 | 552.8 | 565.0 | 563.2 | 561.5 |
| Blast furnaces and basic steel products ................. | 331 | 235.4 | 234.2 | 235.2 | 234.2 | 234.7 | 181.3 | 180.3 | 182.2 | 181.6 | 181.5 |
| Blast furnaces and steel mills | 3312 | 163.4 | 163.1 | 162.3 | 161.5 | - | 126.9 | 126.7 | 126.9 | 126.2 | - |
| Steel pipe and tubes . | 3317 | 28.0 | 27.7 | 28.8 | 28.7 | - | 21.1 | 20.9 | 21.7 | 21.6 | - |
| Iron and steel foundries | 332 | 130.0 | 129.1 | 134.2 | 134.0 | - | 106.7 | 106.0 | 110.2 | 110.0 | - |
| Gray and ductile iron foundries ............................ | 3321 | 80.5 | 80.5 | 81.6 | 81.7 | - | 66.8 | 66.7 | 67.5 | 67.5 | - |
| Malleable iron foundries | 3322 | 4.6 | 4.6 | 4.7 | 4.8 | - | 3.6 | 3.6 | 3.6 | 3.7 | - |
| Steel foundries, nec | 3325 | 27.0 | 26.5 | 28.7 | 28.5 | - | 22.1 | 21.9 | 23.6 | 23.5 | - |
| Primary nonferrous metals | 333 | 39.3 | 39.1 | 39.3 | 39.2 | - | 30.3 | 30.2 | 30.5 | 30.5 | - |
| Primary aluminum ........... | 3334 | 22.3 | 22.2 | 22.3 | 22.3 | - | 18.0 | 18.0 | 18.2 | 18.2 | - |
| Nonferrous rolling and drawing | 335 | 168.4 | 168.6 | 168.9 | 168.4 | - | 128.9 | 128.6 | 130.0 | 129.6 | - |
| Copper rolling and drawing ................................. | 3351 | 22.4 | 22.4 | 22.2 | 22.3 | - | 17.6 | 17.6 | 17.9 | 18.0 | - |
| Aluminum sheet, plate, and foil .......................... | 3353 | 21.4 | 21.8 | 21.4 | 21.0 | - | 15.9 | 16.1 | 16.1 | 15.7 | - |
| Nonferrous wire drawing and insulating ................ | 3357 | 72.3 | 72.4 | 72.7 | 72.6 | - | 55.0 | 54.7 | 55.4 | 55.3 | - |
| Nonferrous foundries (castings) ........................... | 336 | 91.3 | 91.0 | 93.6 | 92.9 | - | 74.2 | 74.0 | 75.9 | 75.4 | - |
| Aluminum foundries ......... | 3365 | 25.3 | 25.2 | 25.9 | 25.9 | - | 20.7 | 20.6 | 21.2 | 21.2 | - |
| Fabricated metal products ............... | 34 | 1,474.9 | 1,466.6 | 1,494.6 | 1,494.2 | 1,495.0 | 1,111.8 | 1,105.8 | 1,129.7 | 1,129.0 | 1,127.5 |
| Metal cans and shipping containers ...................... | 341 | 37.7 | 37.7 | 37.0 | 36.9 | - | 32.2 | 32.2 | 31.4 | 31.3 | - |
| Metal cans ................................. | 3411 | 30.2 | 30.2 | 29.7 | 29.6 | - | 26.1 | 26.2 | 25.6 | 25.6 | - |
| Cutlery, handtools, and hardware ......................... | 342 | 125.4 | 125.2 | 126.6 | 126.4 | - | 95.5 | 95.3 | 97.7 | 97.5 | - |
| Hand and edge tools, and blades and handsaws ... | 3423.5 | 43.2 | 43.3 | 43.1 | 43.4 | - | 33.4 | 33.6 | 33.4 | 33.6 | - |
| Hardware, nec .................................................. | 3429 | 69.4 | 69.1 | 70.5 | 70.0 | - | 52.8 | 52.5 | 54.4 | 54.0 | - |
| Plumbing and heating, except electric | 343 | 58.6 | 58.1 | 59.0 | 58.7 | - | 41.8 | 41.5 | 41.5 | 41.2 | - |
| Plumbing fixture fittings and trim ......................... | 3432 | 23.7 | 23.9 | 24.5 | 24.5 | - | 17.2 | 17.3 | 17.7 | 17.7 | - |
| Heating equipment, except electric | 3433 | 20.8 | 20.2 | 20.3 | 20.0 | - | 14.0 | 13.5 | 13.1 | 12.8 | - |
| Fabricated structural metal products ..................... | 344 | 450.9 | 447.5 | 452.4 | 452.6 | - | 330.9 | 328.6 | 331.2 | 331.1 | - |
| Fabricated structural metal | 3441 | 78.1 | 77.4 | 78.0 | 78.3 | - | 57.5 | 57.0 | 57.3 | 57.4 | - |
| Metal doors, sash, and trim | 3442 | 78.5 | 77.5 | 77.3 | 77.4 | - | 58.2 | 57.3 | 56.6 | 56.7 | - |
| Fabricated plate work (boiler shops) .................... | 3443 | 101.1 | 101.4 | 102.2 | 101.4 | - | 73.0 | 73.2 | 73.9 | 73.4 | - |
| Sheet metal work ....................... | 3444 | 120.4 | 119.1 | 121.6 | 121.6 | - | 92.6 | 91.9 | 93.2 | 93.1 | - |
| Architectural metal work | 3446 | 30.6 | 30.7 | 31.2 | 31.2 | - | 21.9 | 21.9 | 22.8 | 22.7 | - |
| Screw machine products, bolts, etc ....................... | 345 | 104.4 | 103.9 | 108.4 | 108.5 | - | 82.0 | 81.6 | 85.5 | 85.4 | - |
| Screw machine products .................................. | 3451 | 54.3 | 54.1 | 56.9 | 56.9 | - | 44.2 | 44.0 | 46.5 | 46.4 | - |
| Bolts, nuts, rivets, and washers ........................... | 3452 | 50.1 | 49.8 | 51.5 | 51.6 | - | 37.8 | 37.6 | 39.0 | 39.0 | - |
| Metal forgings and stampings .............................. | 346 | 254.8 | 254.1 | 260.0 | 260.0 | - | 202.9 | 203.1 | 206.4 | 206.2 | - |
| Iron and steel forgings ...................................... | 3462 | 32.0 | 31.6 | 33.5 | 33.6 | - | 24.5 | 24.2 | 25.7 | 25.7 | - |
| Automotive stampings | 3465 | 114.3 | 114.9 | 115.8 | 116.3 | - | 94.3 | 95.1 | 95.1 | 95.5 | - |
| Metal stampings, nec ......................................... | 3469 | 95.6 | 94.7 | 97.3 | 96.7 | - | 74.4 | 74.0 | 75.4 | 74.7 | - |

See footnotes at end of table.

## B-12. Employees on nonfarm payrolls by detailed industry-Continued

(In thousands)

| Industry | 1987 SIC Code | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. <br> 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. <br> 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | Apr. 1998p | $\begin{gathered} \text { May } \\ 1999^{p} \end{gathered}$ |
| Durable goods-Continued <br> Fabricated metal products-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Metal services, nec .......................... | 347 | 138.2 | 136.5 | 141.9 | 142.3 | - | 111.0 | 109.2 | 114.9 | 115.3 | - |
| Plating and polishing | 3471 | 84.3 | 83.1 | 86.5 | 86.5 | - | 68.3 | 66.9 | 70.9 | 70.8 | - |
| Metal coating and allied services | 3479 | 53.9 | 53.4 | 55.4 | 55.8 | - | 42.6 | 42.3 | 44.0 | 44.5 | - |
| Ordnance and accessories, nec ... | 349 | 43.1 | 43.5 | 41.2 | 41.0 | - | 23.3 | 23.2 | 23.2 | 23.3 | - |
| Ammunition, except for small arms, nec | 3483 | 22.8 | 22.8 | 22.0 | 21.8 | - | 9.8 | 9.5 | 10.0 | 10.0 | - |
| Miscellaneous fabricated metal products . | 349 | 262.0 | 260.1 | 268.1 | 267.8 | - | 192.4 | 191.1 | 197.9 | 197.7 | - |
| Valves and pipe fittings, nec .................. | 3494 | 25.8 | 25.6 | 26.1 | 25.9 | - | 19.1 | 19.0 | 19.2 | 19.1 | - |
| Misc. fabricated wire products ............................ | 3496 | 56.8 | 57.0 | 57.0 | 56.8 | - | 42.8 | 43.1 | 42.9 | 42.9 | - |
| Industrial machinery and equipment ......................... | 35 | 2,163.4 | 2,154.2 | 2,211.0 | 2,207.9 | 2,205.2 | 1,361.7 | 1,359.9 | 1,400.5 | 1,397.1 | 1,393.7 |
| Engines and turbines .......................................... | 351 | 83.1 | 84.0 | 83.5 | 83.5 | - | 53.1 | 54.4 | 52.5 | 52.5 | - |
| Turbines and turbine generator sets ..................... | 3511 | 24.3 | 24.2 | 24.1 | 24.2 | - | 13.7 | 13.7 | 13.6 | 13.6 | - |
| Internal combustion engines, nec .... | 3519 | 58.8 | 59.8 | 59.4 | 59.3 | - | 39.5 | 40.7 | 38.9 | 38.9 | - |
| Farm and garden machinery ....... | 352 | 104.1 | 107.2 | 107.2 | 106.8 | - | 75.9 | 79.2 | 78.6 | 78.0 | - |
| Farm machinery and equipment .......................... | 3523 | 77.3 | 76.3 | 80.1 | 79.8 | - | 55.8 | 55.2 | 58.4 | 58.0 | - |
| Construction and related machinery ...................... | 353 | 243.3 | 239.4 | 253.4 | 254.4 | - | 158.5 | 155.5 | 166.0 | 166.1 | - |
| Construction machinery .... | 3531 | 89.3 | 88.8 | 92.8 | 92.9 | - | 61.0 | 60.8 | 64.1 | 63.9 | - |
| Mining machinery | 3532 | 17.1 | 17.1 | 16.8 | 16.9 | - | 10.2 | 10.3 | 10.0 | 10.0 |  |
| Oil and gas field machinery | 3533 | 46.8 | 44.7 | 51.4 | 51.5 | - | 31.7 | 30.2 | 34.8 | 35.0 | - |
| Conveyors and conveying equipment | 3535 | 40.3 | 39.8 | 41.1 | 41.7 | - | 22.6 | 22.2 | 22.2 | 22.4 | - |
| Industrial trucks and tractors | 3537 | 31.0 | 30.5 | 32.0 | 32.1 | - | 21.3 | 20.8 | 22.5 | 22.3 | - |
| Metalworking machinery | 354 | 348.9 | 348.0 | 352.8 | 352.1 | - | 248.6 | 248.0 | 253.3 | 252.3 | - |
| Machine tools, metal cutting types | 3541 | 42.3 | 42.4 | 42.6 | 42.8 | - | 26.5 | 26.4 | 27.1 | 27.0 | - |
| Machine tools, metal forming types | 3542 | 17.9 | 17.9 | 18.2 | 18.1 | - | 11.4 | 11.5 | 11.4 | 11.4 | - |
| Special dies, tools, jigs, and fixtures | 3544 | 167.1 | 166.7 | 170.5 | 169.3 | - | 127.8 | 127.6 | 130.8 | 129.9 | - |
| Machine tool accessories | 3545 | 53.2 | 53.1 | 54.1 | 54.3 | - | 37.4 | 37.2 | 38.7 | 38.8 | - |
| Power driven handtools | 3546 | 21.4 | 21.3 | 20.4 | 20.6 | - | 14.9 | 14.9 | 14.5 | 14.6 | - |
| Special industry machinery | 355 | 180.0 | 177.3 | 185.6 | 185.3 | - | 99.7 | 99.3 | 101.0 | 100.2 | - |
| Textile machinery | 3552 | 14.9 | 14.8 | 15.3 | 15.2 | - | 9.9 | 9.9 | 10.0 | 9.9 | - |
| Printing trades machinery | 3555 | 22.7 | 22.6 | 23.3 | 23.6 | - | 12.9 | 12.8 | 13.2 | 13.3 | - |
| Food products machinery | 3556 | 25.3 | 25.3 | 25.2 | 24.8 | - | 15.0 | 15.1 | 15.1 | 14.8 | - |
| General industrial machinery | 356 | 262.5 | 261.1 | 267.4 | 266.3 | - | 167.7 | 167.0 | 171.5 | 170.6 | - |
| Pumps and pumping equipment | 3561 | 30.6 | 30.8 | 30.4 | 30.5 | - | 17.5 | 17.6 | 17.8 | 17.8 | - |
| Ball and roller bearings | 3562 | 40.0 | 39.9 | 41.0 | 41.0 | - | 31.3 | 31.4 | 31.9 | 31.8 | - |
| Air and gas compressors | 3563 | 26.3 | 26.1 | 26.8 | 26.7 | - | 15.3 | 15.2 | 15.5 | 15.5 | - |
| Blowers and fans | 3564 | 35.1 | 34.9 | 35.6 | 35.3 | - | 23.7 | 23.6 | 24.2 | 24.1 | - |
| Speed changers, drives, and gears ..................... | 3566 | 17.8 | 17.5 | 18.4 | 18.4 | - | 12.7 | 12.4 | 13.4 | 13.3 | - |
| Power transmission equipment, nec ..................... | 3568 | 21.8 | 21.6 | 22.3 | 22.3 | - | 15.2 | 15.1 | 15.6 | 15.6 | - |
| Computer and office equipment ............................ | 357 | 374.6 | 369.7 | 379.0 | 377.7 | 375.8 | 139.2 | 136.6 | 145.4 | 145.4 | - |
| Electronic computers ........................................ | 3571 | 195.8 | 193.3 | 198.3 | 197.5 | - | 63.8 | 62.1 | 70.2 | 70.2 | - |
| Computer terminals, calculators, and office machines, nec $\qquad$ | 3575,8,9 | 60.3 | 59.3 | 61.3 | 61.3 | - | 24.3 | 23.7 | 24.0 | 24.1 | - |
| Refrigeration and service machinery ..................... | 358 | 202.4 | 206.3 | 204.6 | 204.3 | - | 145.5 | 149.7 | 147.9 | 147.8 | - |
| Refrigeration and heating equipment ................... | 3585 | 140.6 | 144.8 | 141.6 | 141.2 | - | 106.9 | 111.2 | 108.1 | 108.0 | - |
| Misc. industrial and commercial machinery ............. | 359 | 364.6 | 361.2 | 377.5 | 377.5 | - | 273.5 | 270.2 | 284.3 | 284.2 | - |
| Carburetors, pistons, rings, valves ...................... | 3592 | 22.9 | 22.9 | 23.2 | 23.2 | - | 18.1 | 17.9 | 18.6 | 18.7 | - |
| Scales, balances, and industrial machinery, nec .... | 3596,9 | 295.1 | 292.4 | 306.0 | 305.7 | - | 226.4 | 223.7 | 235.4 | 235.0 | - |
| Electronic and other electrical equipment ................. | 36 | 1,687.7 | 1,669.5 | 1,718.4 | 1,714.2 | 1,710.0 | 1,067.9 | 1,056.7 | 1,084.5 | 1,079.5 | 1,077.8 |
| Electric distribution equipment .............................. | 361 | 82.3 | 82.2 | 82.9 | 82.9 | - | 56.0 | 55.9 | 56.1 | 55.7 | - |
| Transformers, except electronic .......... | 3612 | 39.4 | 39.5 | 39.2 | 38.9 | - | 27.5 | 27.7 | 26.7 | 26.2 | - |
| Switchgear and switchboard apparatus.. | 3613 | 42.9 | 42.7 | 43.7 | 44.0 | - | 28.4 | 28.2 | 29.4 | 29.5 | - |
| Electrical industrial apparatus ............................... | 362 | 154.1 | 154.6 | 154.1 | 153.9 | - | 107.5 | 108.0 | 107.8 | 107.5 | - |
| Motors and generators | 3621 | 76.1 | 76.0 | 76.5 | 76.4 | - | 59.2 | 59.2 | 59.6 | 59.4 | - |
| Relays and industrial controls ............................. | 3625 | 57.7 | 58.4 | 56.8 | 56.7 | - | 33.6 | 34.1 | 33.1 | 33.0 | - |
| Household appliances ..................... | 363 | 114.6 | 111.9 | 115.7 | 115.6 | - | 90.0 | 87.7 17.7 | 91.7 | 91.5 | - |
| Household refrigerators and freezers | 3632 | 23.8 | 22.9 | 23.9 | 24.3 | - | 18.5 | 17.7 | 18.9 | 19.3 | - |
| Household laundry equipment. | 3633 | 16.9 | 16.3 | 17.7 | 17.6 | - | 13.3 | 12.9 | 14.0 | 13.9 | - |
| Electric housewares and fans ............................. | 3634 | 26.3 | 25.7 | 25.6 | 25.6 | - | 20.1 | 19.7 | 19.2 | 18.9 | - |

See footnotes at end of table.

B-12. Employees on nonfarm payrolls by detailed industry-Continued
(In thousands)

| Industry | 1987 SIC Code | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ \text { 1998p } \end{gathered}$ | Avg. 1997 | $\begin{gathered} \text { Apr. } \\ 1997 \end{gathered}$ | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ 1998 \mathrm{p} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Electronic and other electrical equipment-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Electric lighting and wiring equipment .................... | 364 | 180.5 | 179.6 | 183.0 | 182.8 | - | 129.3 | 128.4 | 130.2 | 130.2 | - |
| Electric lamps | 3641 | 22.0 | 22.1 | 21.9 | 21.9 | - | 17.0 | 17.2 | 16.9 | 17.0 | - |
| Current-carrying wiring devices | 3643 | 62.3 | 62.0 | 63.8 | 63.8 | - | 40.9 | 40.3 | 41.9 | 41.9 | - |
| Noncurrent-carrying wiring devices | 3644 | 17.9 | 18.0 | 18.0 | 18.0 | - | 13.6 | 13.7 | 13.4 | 13.4 | - |
| Residential ing fixtures .............. | 3645 | 21.1 | 20.8 | 21.2 | 20.9 | - | 15.8 | 15.6 | 15.9 | 15.8 | - |
| Household audio and video equipment. | 365 | 79.1 | 79.4 | 77.1 | 77.1 | - | 51.3 | 51.4 | 49.5 | 49.5 | - |
| Household audio and video equipment ................ | 3651 | 53.0 | 53.1 | 52.2 | 52.1 | - | 31.3 | 31.3 | 30.8 | 30.7 | - |
| Communications equipment ................................. | 366 | 275.8 | 274.0 | 278.4 | 279.4 | - | 131.3 | 130.4 | 128.8 | 129.4 | - |
| Telephone and telegraph apparatus | 3661 | 119.9 | 119.2 | 124.4 | 125.6 | - | 59.5 | 59.8 | 58.3 | 58.7 | - |
| Electronic components and accessories | 367 | 652.3 | 638.9 | 679.7 | 676.4 | 673.6 | 395.1 | 387.5 | 414.3 | 411.3 | - |
| Electron tubes ........................ | 3671 | 22.5 | 22.2 | 22.9 | 22.8 | - | 16.3 | 16.0 | 17.0 | 16.6 | - |
| Semiconductors and related devices | 3674 | 278.1 | 269.6 | 292.4 | 291.6 | - | 127.0 | 123.6 | 134.5 | 133.9 | - |
| Electronic components, nec | 3679 | 145.9 | 144.6 | 149.9 | 148.6 | - | 99.2 | 97.7 | 103.4 | 102.2 | - |
| Misc. electrical equipment and supplies | 369 | 149.0 | 148.9 | 147.5 | 146.1 | - | 107.5 | 107.4 | 106.1 | 104.4 | - |
| Storage batteries ............................. | 3691 | 26.7 | 26.8 | 25.7 | 25.5 | - | 20.7 | 20.7 | 19.9 | 19.7 | - |
| Engine electrical equipment | 3694 | 65.2 | 65.2 | 66.2 | 65.4 | - | 51.7 | 51.9 | 51.1 | 50.0 | - |
| Transportation equipment | 37 | 1,841.8 | 1,822.9 | 1,888.6 | 1,891.0 | 1,894.1 | 1,254.0 | 1,239.3 | 1,283.8 | 1,280.6 | 1,279.3 |
| Motor vehicles and equipmen | 371 | 985.1 | 974.1 | 1,003.5 | 1,004.7 | 1,006.5 | 778.8 | 767.5 | 785.7 | 784.0 | 782.9 |
| Motor vehicles and car bodies | 3711 | 350.3 | 344.0 | 356.8 | 358.0 | - | 270.1 | 262.8 | 268.1 | 267.3 | - |
| Truck and bus bodies | 3713 | 40.7 | 40.6 | 42.3 | 42.5 | - | 32.5 | 32.4 | 33.5 | 33.7 | - |
| Motor vehicle parts and accessories | 3714 | 541.2 | 537.9 | 545.6 | 545.2 | - | 433.1 | 430.2 | 435.7 | 434.8 | - |
| Truck trailers | 3715 | 33.3 | 32.3 | 37.6 | 38.0 | - | 26.9 | 25.9 | 30.7 | 30.7 | - |
| Aircraft and parts | 372 | 500.3 | 490.7 | 522.9 | 523.6 | 522.7 | 251.0 | 243.9 | 268.7 | 267.5 | - |
| Aircratt | 3721 | 263.4 | 258.2 | 273.8 | 273.3 | - | 110.6 | 107.1 | 116.6 | 116.0 | - |
| Aircratt engines and engine parts | 3724 | 99.8 | 99.8 | 102.3 | 103.5 | - | 53.6 | 53.4 | 56.9 | 56.7 | - |
| Aircraft parts and equipment, nec | 3728 | 137.1 | 132.7 | 146.8 | 146.8 | - | 86.8 | 83.4 | 95.2 | 94.8 | - |
| Ship and boat building and repairing | 373 | 157.0 | 159.8 | 161.1 | 160.9 | - | 119.4 | 123.2 | 123.0 | 122.0 | - |
| Ship building and repairing | 3731 | 99.8 | 101.8 | 100.5 | 99.6 | - | 71.7 | 74.7 | 72.1 | 70.7 | - |
| Boat building and repairing | 3732 | 57.1 | 58.0 | 60.6 | 61.3 | - | 47.7 | 48.5 | 50.9 | 51.3 | - |
| Railroad equipment ....... | 374 | 33.3 | 33.2 | 33.6 | 33.9 | - | 25.1 | 25.2 | 25.9 | 26.1 | - |
| Guided missiles, space vehicles, and parts | 376 | 90.6 | 89.9 | 90.4 | 90.3 | - | 24.3 | 24.1 | 24.3 | 24.2 | - |
| Guided missiles and space vehicles ..................... | 3761 | 62.6 | 62.1 | 62.7 | 62.7 | - | 15.3 | 15.2 | 15.3 | 15.3 | - |
| Miscellaneous transportation equipment ................. | 379 | 53.1 | 53.6 | 54.3 | 54.9 | - | 38.8 | 39.4 | 39.9 | 40.6 | - |
| Travel trailers and campers ................................ | 3792 | 21.9 | 21.8 | 23.0 | 23.4 | - | 18.4 | 18.4 | 19.4 | 19.8 | - |
| Instruments and related products ............................ | 38 | 863.3 | 859.9 | 867.3 | 866.5 | 865.7 | 426.3 | 425.0 | 433.8 | 432.9 | 432.9 |
| Search and navigation equipment ......................... | 381 | 160.5 | 159.6 | 160.5 | 160.7 | - | 43.6 | 44.0 | 43.2 | 43.5 | - |
| Measuring and controlling devices ........................ | 382 | 299.4 | 298.7 | 303.0 | 302.6 | - | 153.3 | 153.3 | 156.1 | 155.3 | - |
| Environmental controls | 3822 | 41.3 | 41.3 | 40.8 | 40.6 | - | 27.7 | 27.6 | 27.8 | 27.5 | - |
| Process control instruments | 3823 | 66.1 | 66.4 | 66.4 | 66.1 | - | 33.7 | 33.9 | 34.1 | 33.7 | - |
| Instruments to measure electricity ....................... | 3825 | 75.4 | 74.6 | 77.4 | 77.5 | - | 32.3 | 32.4 | 33.0 | 32.8 | - |
| Medical instruments and supplies ......................... | 384 | 275.9 | 274.2 | 279.8 | 279.7 | - | 161.1 | 160.6 | 165.4 | 165.4 | - |
| Surgical and medical instruments ........................ | 3841 | 108.2 | 107.7 | 109.2 | 109.8 | - | 68.9 | 69.4 | 70.2 | 70.4 | - |
| Surgical appliances and supplies ......................... | 3842 | 94.9 | 94.6 | 97.2 | 97.0 | - | 58.5 | 58.1 | 60.5 | 60.2 | - |
| Ophthalmic goods ............................................. | 385 | 35.3 | 34.8 | 36.5 | 36.8 | - | 22.2 | 21.2 | 24.3 | 24.6 | - |
| Photographic equipment and supplies ................... | 386 | 84.4 | 84.9 | 79.7 | 79.1 | - | 39.7 | 39.6 | 38.3 | 37.9 | - |
| Watches, clocks, watchcases, and parts ................ | 387 | 7.8 | 7.7 | 7.8 | 7.6 | - | 6.4 | 6.3 | 6.5 | 6.2 | - |
| Miscellaneous manufacturing industries ................... | 39 | 389.3 | 389.1 | 388.0 | 389.0 | 387.5 | 273.1 | 272.9 | 272.0 | 273.6 | 271.3 |
| Jewelry, silverware, and plated ware ...................... | 391 | 48.9 | 49.1 | 48.3 | 48.6 | - | 33.7 | 33.6 | 33.4 | 33.8 | - |
| Jewelry, precious metal ..................................... | 3911 | 36.6 | 36.7 | 36.3 | 36.6 | - | 24.8 | 24.7 | 24.7 | 25.0 | - |
| Musical instruments | 393 | 15.9 | 15.7 | 16.7 | 16.6 | - | 12.6 | 12.4 | 13.2 | 13.1 | - |
| Toys and sporting goods .................................... | 394 | 109.8 | 112.4 | 106.2 | 106.5 | - | 75.7 | 78.2 | 72.6 | 73.1 | - |
| Dolls, games, toys, and children's vehicles ........... | 3942,4 | 37.3 | 37.4 | 34.8 | 34.1 | - | 24.6 | 24.6 | 22.2 | 21.8 | - |
| Sporting and athletic goods, nec ......................... | 3949 | 72.4 | 75.0 | 71.4 | 72.4 | - | 51.2 | 53.6 | 50.4 | 51.3 | - |
| Pens, pencils, office, and ant supplies ................... | 395 | 30.9 | 30.8 | 30.7 | 30.6 | - | 20.9 | 20.6 | 21.4 | 21.4 | - |
| Costume jewelry and notions .............................. | 396 | 23.6 | 23.4 | 23.1 | 23.1 | - | 16.5 | 16.1 | 16.5 | 16.6 | - |
| Costume jewelry ................... | 3961 | 13.5 | 13.3 | 12.9 | 12.8 | - | 9.4 | 9.0 | 9.4 | 9.4 | - |
| Miscellaneous manufactures | 399 | 160.2 | 157.7 | 163.0 | 163.6 | - | 113.7 | 112.0 | 114.9 | 115.6 | - |
| Signs and advertising specialties ........................ | 3993 | 68.9 | 67.6 | 71.0 | 71.5 | - | 45.3 | 44.5 | 46.1 | 46.9 | - |

See footnotes at end of table.

## ESTABLISHMENT DATA EMPLOYMENT NOT SEASONALLY ADJUSTED

B-12. Employees on nonfarm payrolls by detailed industry-Continued
(In thousands)

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. <br> 1997 | Mar. <br> 1998 | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ | Avg. 1997 | Apr. 1997 | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Nondurable goods .......................................... |  | 7,670 | 7,620 | 7,604 | 7.593 | 7,604 | 5,357 | 5,314 | 5,297 | 5,282 | 5,298 |
| Food and kindred products ................................ | 20 | 1,691.0 | 1,646.3 | 1,663.8 | 1,662.4 | 1,672.6 | 1,255.8 | 1,214.9 | 1,231.4 | 1,228.9 | 1,239.7 |
| Meat products ................ | 201 | 489.2 | 485.4 | 494.8 | 495.5 | - | 415.4 | 411.0 | 419.5 | 421.0 | - |
| Meat packing plants | 2011 | 149.9 | 148.2 | 153.9 | 153.2 | - | 125.0 | 122.5 | 128.6 | 128.2 | - |
| Sausages and other prepared meats | 2013 | 96.1 | 94.9 | 96.2 | 96.6 | - | 74.4 | 73.1 | 74.7 | 75.3 | - |
| Poultry slaughtering and processing | 2015 | 243.2 | 242.3 | 244.7 | 245.7 | - | 215.9 | 215.4 | 216.2 | 217.5 | - |
| Dairy products ............................... | 202 | 141.9 | 141.7 | 141.7 | 141.8 | - | 94.0 | 93.8 | 95.9 | 96.1 | - |
| Cheese, natural and processed ........................... | 2022 | 40.0 | 39.5 | 39.6 | 39.7 | - | 32.7 | 32.3 | 32.1 | 32.2 | - |
| Fluid milk | 2026 | 61.8 | 61.7 | 61.9 | 61.6 | - | 35.1 | 35.0 | 36.2 | 35.9 | - |
| Preserved fruits and vegetables | 203 | 232.1 | 211.1 | 206.6 | 209.1 | - | 195.1 | 173.9 | 170.1 | 172.5 | - |
| Canned specialties ................ | 2032 | 18.9 | 18.4 | 18.3 | 18.4 | - | 15.0 | 14.5 | 14.3 | 14.5 | - |
| Canned fruits and vegetables ............................. | 2033 | 73.3 | 61.0 | 56.5 | 58.5 | - | 61.2 | 48.6 | 45.2 | 47.3 | - |
| Frozen fruits and vegetables .............................. | 2037 | 48.3 | 43.5 | 44.3 | 44.0 | - | 42.1 | 37.3 | 38.2 | 37.6 | - |
| Grain mill products .............................................. | 204 | 125.3 | 124.5 | 124.2 | 123.6 | - | 89.6 | 88.7 | 89.0 | 88.1 | - |
| Flour and other grain mill products ...................... | 2041 | 18.9 | 18.3 | 18.7 | 18.8 | - | 11.7 | 11.4 | 11.5 | 11.5 | - |
| Prepared feeds, nec .......................................... | 2048 | 39.8 | 40.0 | 39.9 | 39.7 | - | 25.7 | 25.5 | 26.2 | 26.0 | - |
| Bakery products ......... | 205 | 207.4 | 203.8 | 206.2 | 205.9 | - | 139.4 | 137.3 | 138.4 | 137.4 | - |
| Bread, cake, and related products ....................... | 2051 | 148.1 | 146.5 | 149.0 | 150.1 | - | 89.9 | 89.0 | 90.3 | 90.8 | - |
| Cookies, crackers, and frozen bakery products, except bread $\qquad$ | 2052,3 | 59.3 | 57.3 | 57.2 | 55.8 | - | 49.5 | 48.3 | 48.1 | 46.6 | - |
| Sugar and confectionery products ......................... | 206 | 98.0 | 89.6 | 96.5 | 92.7 | - | 77.5 | 69.7 | 75.1 | 71.1 | - |
| Raw cane sugar ............................................... | 2061 | 5.1 | 4.1 | 6.3 | 4.9 | - | 3.8 | 3.1 | 5.1 | 3.6 | - |
| Cane sugar refining .......................................... | 2062 | 4.3 | 4.2 | 4.2 | 4.1 | - | 3.2 | 3.2 | 3.1 | 3.1 | - |
| Beet sugar | 2063 | 8.4 | 7.1 | 7.2 | 7.5 | - | 7.4 | 6.1 | 6.3 | 6.5 | - |
| Candy and other confectionery products .............. | 2064 | 54.2 | 49.4 | 53.4 | 51.1 | - | 43.7 | 39.2 | 41.7 | 39.2 | - |
| Fats and oils ..................................................... | 207 | 32.9 | 31.7 | 32.6 | 32.8 | - | 23.1 | 22.8 | 23.0 | 23.0 | - |
| Beverages | 208 | 180.8 | 177.9 | 180.2 | 181.0 | - | 87.5 | 85.4 | 88.1 | 88.7 | - |
| Malt beverages | 2082 | 33.9 | 33.8 | 33.1 | 33.5 | - | 21.6 | 21.7 | 20.9 | 21.2 | - |
| Bottled and canned soft drinks | 2086 | 94.4 | 93.6 | 94.3 | 95.1 | - | 38.9 | 38.5 | 39.1 | 39.5 | - |
| Misc. food and kindred products ............................ | 209 | 183.4 | 180.6 | 181.0 | 180.0 | - | 134.3 | 132.3 | 132.3 | 131.0 | - |
| Tobacco products ................................................ | 21 | 41.2 | 38.8 | 40.5 | 39.5 | 37.4 | 31.8 | 29.1 | 31.5 | 30.5 | 28.6 |
| Cigarettes ....................................................... | 211 | 28.0 | 28.4 | 27.4 | 27.2 | - | 20.8 | 21.2 | 20.5 | 20.4 | - |
| Textile mill products .............................................. | 22 | 615.5 | 616.8 | 602.5 | 603.6 | 604.2 | 521.7 | 523.4 | 511.6 | 512.3 | 513.2 |
| Broadwoven fabric mills, cotton | 221 | 72.3 | 72.6 | 70.1 | 70.6 | - | 64.5 | 64.6 | 62.6 | 63.1 | - |
| Broadwoven fabric mills, synthetics ....................... | 222 | 64.3 | 63.8 | 64.8 | 64.9 | - | 54.0 | 53.6 | 54.8 | 55.1 | - |
| Broadwoven fabric mills, wool | 223 | 14.3 | 14.5 | 13.7 | 13.7 | - | 12.1 | 12.5 | 11.6 | 11.5 | - |
| Narrow fabric mills | 224 | 21.4 | 21.5 | 21.1 | 21.0 | - | 17.7 | 17.9 | 17.4 | 17.2 | - |
| Knitting mills ..................................................... | 225 | 172.9 | 174.6 | 163.4 | 163.6 | - | 148.1 | 150.3 | 139.7 | 139.6 | - |
| Women's hosiery, except socks .......................... | 2251 | 19.7 | 19.8 | 18.2 | 17.5 | - | 17.3 | 17.4 | 16.0 | 15.2 | - |
| Hosiery, nec ....... | 2252 | 38.3 | 38.4 | 36.5 | 36.1 | - | 33.4 | 33.8 | 31.9 | 31.5 | - |
| Knit outerwear mills | 2253 | 52.0 | 53.0 | 49.0 | 49.5 | - | 44.4 | 45.2 | 42.1 | 42.5 | - |
| Knit underwear mills | 2254 | 16.3 | 17.2 | 12.3 | 13.1 | - | 14.4 | 15.3 | 10.9 | 11.7 | - |
| Weft knit fabric mills .......................................... | 2257 | 24.9 | 24.8 | 25.3 | 25.3 | - | 20.7 | 20.8 | 21.3 | 21.3 | - |
| Textile finishing, except wool ................................ | 226 | 67.0 | 67.9 | 65.7 | 65.0 | - | 54.7 | 55.5 | 53.9 | 53.4 | - |
| Finishing plants, cotton | 2261 | 31.2 | 31.6 | 30.6 | 30.1 | - | 25.5 | 25.8 | 25.1 | 24.6 | - |
| Finishing plants, synthetics ................................. | 2262 | 21.1 | 21.4 | 20.5 | 20.3 | - | 16.9 | 17.1 | 16.5 | 16.4 | - |
| Carpets and rugs ............................................... | 227 | 63.5 | 62.3 | 65.0 | 65.8 | - | 52.3 | 51.0 | 54.5 | 55.1 | - |
| Yarn and thread mills .......................................... | 228 | 86.0 | 86.2 | 84.4 | 84.9 | - | 76.2 | 76.6 | 75.1 | 75.4 | - |
| Yarn spinning mills ........................................... | 2281 | 62.7 | 63.0 | 61.4 | 61.9 | - | 55.9 | 56.3 | 55.2 | 55.5 | - |
| Throwing and winding mills | 2282 | 16.4 | 16.4 | 16.1 | 16.2 | - | 14.1 | 14.2 | 13.8 | 13.8 | - |
| Miscellaneous textile goods ................................. | 229 | 54.0 | 53.4 | 54.3 | 54.1 | - | 42.0 | 41.4 | 42.0 | 41.9 | - |
| Apparel and other textile products ........................... | 23 | 825.6 | 833.0 | 792.0 | 784.0 | 780.8 | 674.1 | 680.9 | 640.4 | 631.6 | 628.2 |
| Men's and boys' suits and coats | 231 | 29.4 | 29.4 | 28.6 | 28.4 | - | 23.8 | 24.0 | 23.2 | 23.1 | - |
| Men's and boys' furnishings ................................ | 232 | 207.1 | 211.1 | 192.3 | 191.1 | - | 175.3 | 178.6 | 162.5 | 160.8 | - |
| Men's and boys' shirts ....................................... | 2321 | 42.9 | 43.9 | 39.8 | 39.4 | - | 36.8 | 37.6 | 34.5 | 34.2 | - |
| Men's and boys' trousers and slacks .................... | 2325 | 69.7 | 70.3 | 64.9 | 65.2 | - | 60.1 | 60.7 | 56.4 | 56.1 | - |
| Men's and boys' work clathing ............................. | 2326 | 30.8 | 32.0 | 29.1 | 28.7 | - | 26.4 | 27.3 | 24.8 | 24.3 | - |
| Women's and misses' outerwear ............. | 233 | 252.2 | 255.2 | 242.4 | 237.6 | - | 204.6 | 206.9 | 193.4 | 188.2 | - |
| Women's and misses' blouses and shirts | 2331 | 22.9 | 23.6 | 20.7 | 20.8 | - | 17.8 | 18.5 | 15.9 | 15.8 | - |
| Women's, juniors', and misses' dresses ................ | 2335 | 40.1 | 40.6 | 39.4 | 38.4 | - | 31.5 | 31.9 | 30.4 | 29.7 | - |
| Women's and misses' suits and coats .................. | 2337 | 24.8 | 23.9 | 23.9 | 23.6 | - | 19.4 | 18.6 | 18.4 | 18.2 | - |
| Women's and misses' outerwear, nec .................. | 2339 | 164.5 | 167.1 | 158.4 | 154.8 | - | 136.0 | 137.9 | 128.7 | 124.5 | - |

See footnotes at end of table.

B-12. Employees on nonfarm payrolls by detailed industry-Continued
(In thousands)

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{gathered} \text { Apr. } \\ 1998 \mathrm{p} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Apparel and other textile products-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Women's and children's undergarments ................ | 234 | 35.2 | 35.6 | 32.6 | 32.4 | - | 27.8 | 28.4 | 25.7 | 25.3 | - |
| Women's and children's underwear ..................... | 2341 | 25.5 | 25.6 | 24.0 | 23.9 | - | 20.8 | 21.1 | 19.4 | 19.1 | - |
| Brassieres, girdles, and allied garments ................ | 2342 | 9.7 | 10.0 | 8.6 | 8.5 | - | 7.0 | 7.3 | 6.3 | 6.2 | - |
| Girls' and children's outerwear ............. | 236 | 30.6 | 30.5 | 26.9 | 25.4 | - | 25.2 | 25.2 | 22.1 | 20.8 | - |
| Girls' and children's dresses and blouses | 2361 | 12.4 | 12.3 | 10.8 | 10.2 | - | 10.6 | 10.6 | 9.4 | 8.8 | - |
| Misc. apparel and accessories | 238 | 34.0 | 34.7 | 33.2 | 33.3 | - | 27.3 | 28.1 | 26.6 | 26.8 | - |
| Misc. fabricated textile products | 239 | 219.4 | 218.3 | 218.8 | 219.0 | - | 176.0 | 175.3 | 173.4 | 173.2 | - |
| Curtains and draperies | 2391 | 19.8 | 20.6 | 18.9 | 19.4 | - | 15.5 | 16.3 | 14.7 | 14.7 | - |
| House furnishings, nec ...................................... | 2392 | 55.6 | 55.3 | 57.3 | 56.7 | - | 47.1 | 46.7 | 48.3 | 47.7 |  |
| Automotive and apparel trimmings ...................... | 2396 | 61.0 | 60.1 | 60.5 | 60.7 | - | 48.4 | 47.9 | 46.8 | 47.2 | - |
| Paper and allied products | 26 | 685.1 | 681.4 | 684.6 | 681.6 | 681.4 | 522.3 | 519.0 | 521.6 | 518.7 | 519.2 |
| Paper mills | 262 | 158.7 | 158.2 | 155.3 | 154.9 | - | 123.5 | 123.0 | 121.5 | 121.1 | - |
| Paperboard mills | 263 | 50.0 | 49.6 | 50.1 | 50.0 | - | 38.5 | 37.8 | 38.8 | 38.6 | - |
| Paperboard containers and boxes | 265 | 220.0 | 219.2 | 218.8 | 218.3 | - | 170.5 | 169.7 | 169.4 | 168.8 | - |
| Corrugated and solid fiber boxes | 2653 | 132.9 | 132.3 | 133.2 | 132.7 | - | 99.6 | 98.9 | 99.4 | 98.9 | - |
| Sanitary food containers | 2656 | 17.4 | 17.7 | 16.9 | 16.7 | - | 15.5 | 15.8 | 15.2 | 15.0 | - |
| Folding paperboard boxes | 2657 | 47.4 | 47.3 | 46.9 | 47.0 | - | 38.3 | 38.3 | 38.0 | 38.2 | - |
| Misc. converted paper products | 267 | 244.4 | 242.3 | 248.6 | 246.6 | - | 180.2 | 178.8 | 182.5 | 180.8 | - |
| Paper, coated and laminated, nec | 2672 | 46.9 | 46.1 | 48.1 | 48.2 | - | 24.3 | 23.7 | 25.0 | 24.8 | - |
| Bags: plastics, laminated, and coated | 2673 | 40.2 | 40.0 | 40.7 | 40.1 | - | 31.4 | 31.3 | 32.0 | 31.5 | - |
| Envelopes | 2677 | 25.2 | 24.9 | 25.7 | 25.5 | - | 19.7 | 19.4 | 20.0 | 19.9 | - |
| Printing and publishing ......................................... | 27 | 1,552.6 | 1,547.3 | 1,560.6 | 1,564.6 | 1,565.0 | 847.0 | 845.1 | 845.1 | 845.4 | 843.0 |
| Newspapers | 271 | 441.1 | 437.8 | 442.4 | 442.8 | - | 147.7 | 146.4 | 146.8 | 147.2 | - |
| Periodicals | 272 | 135.8 | 134.9 | 138.4 | 138.8 | - | 46.3 | 46.1 | 46.5 | 46.2 | - |
| Books . | 273 | 128.0 | 129.3 | 128.8 | 129.1 | - | 67.0 | 68.2 | 65.9 | 66.0 | - |
| Book publishing | 2731 | 89.3 | 89.8 | 89.9 | 90.0 | - | 36.3 | 36.9 | 35.1 | 34.9 | - |
| Book printing . | 2732 | 38.8 | 39.5 | 38.9 | 39.1 | - | 30.7 | 31.3 | 30.8 | 31.1 | - |
| Miscellaneous publishing | 274 | 87.8 | 87.0 | 90.2 | 91.0 | - | 40.9 | 40.1 | 42.5 | 42.3 | - |
| Commercial printing. | 275 | 572.3 | 572.1 | 575.5 | 577.1 | - | 409.2 | 409.1 | 410.1 | 409.9 | - |
| Commercial printing, lithographic ........................ | 2752 | 371.3 | 370.3 | 374.2 | 375.4 | - | 264.7 | 263.7 | 266.3 | 266.1 | - |
| Commercial printing, nec ............ | 2759 | 181.0 | 181.4 | 181.8 | 181.9 | - | 128.7 | 129.1 | 128.4 | 128.5 | - |
| Manifold business forms | 276 | 43.0 | 43.1 | 42.7 | 42.9 | - | 30.2 | 30.2 | 30.5 | 30.3 | - |
| Blankbooks and bookbinding | 278 | 66.3 | 65.4 | 65.7 | 65.5 | - | 50.8 | 50.5 | 49.8 | 49.8 | - |
| Printing trade services ....................................... | 279 | 50.0 | 50.2 | 49.0 | 49.0 | - | 34.0 | 34.4 | 33.0 | 32.9 | - |
| Chemicals and allied products ................................ | 28 | 1,033.8 | 1,032.0 | 1,034.1 | 1.031 .6 | 1,036.7 | 571.6 | 568.2 | 581.8 | 581.4 | 593.4 |
| Industrial inorganic chemicals .............................. | 281 | 117.2 | 117.3 | 115.8 | 115.6 | - | 56.7 | 54.8 | 60.9 | 60.9 | - |
| Industrial inorganic chernicals, nec ....................... | 2819 | 71.1 | 71.5 | 69.8 | 69.6 | - | 35.6 | 35.7 | 35.5 | 35.3 | - |
| Plastics materials and synthetics .......................... | 282 | 158.3 | 158.8 | 154.9 | 154.2 | - | 105.4 | 105.8 | 103.4 | 103.7 | - |
| Plastics materials and resins. | 2821 | 79.7 | 79.1 | 80.4 | 80.4 | - | 49.6 | 49.4 | 49.6 | 49.5 | - |
| Organic fibers, noncellulosic | 2824 | 45.5 | 45.8 | 44.6 | 44.6 | - | 35.5 | 35.6 | 35.3 | 35.4 | - |
| Drugs ................ | 283 | 267.2 | 266.5 | 270.6 | 270.9 | - | 120.4 | 120.3 | 124.5 | 124.5 | - |
| Pharmaceutical preparations .............................. | 2834 | 211.1 | 210.8 | 214.5 | 215.2 | - | 97.3 | 97.7 | 100.7 | 100.6 | - |
| Soap, cleaners, and toilet goods .......................... | 284 | 156.0 | 153.4 | 156.8 | 155.6 | - | 95.5 | 93.6 | 97.6 | 96.5 | - |
| Soap and other detergents ................................ | 2841 | 42.0 | 41.5 | 41.5 | 41.4 | - | 22.5 | 22.5 | 22.7 | 22.6 | - |
| Polishing, sanitation, and finishing preparations .... | 2842,3 | 39.6 | 39.2 | 40.5 | 40.5 | - | 22.0 | 21.7 | 23.0 | 23.0 | - |
| Toilet preparations | 2844 | 74.4 | 72.7 | 74.8 | 73.7 | - | 51.0 | 49.4 | 51.9 | 50.9 | - |
| Paints and allied products | 285 | 51.6 | 51.3 | 51.8 | 51.7 | - | 27.5 | 27.4 | 27.4 | 27.4 | - |
| Industrial organic chemicals ................................. | 286 | 138.3 | 138.4 | 138.1 | 137.4 | - | 78.5 | 78.3 | 79.7 | 79.8 | - |
| Cyclic crudes and intermediates | 2865 | 23.3 | 23.3 | 23.4 | 23.3 | - | 14.1 | 14.2 | 14.1 | 14.0 | - |
| Industrial organic chemicals, nec ........................ | 2869 | 112.5 | 112.6 | 112.2 | 111.6 | - | 62.5 | 62.2 | 63.8 | 64.0 | - |
| Agricultural chemicals ................ | 287 | 51.6 | 53.1 | 51.6 | 51.8 | - | 31.0 | 32.0 | 31.5 | 31.7 | - |
| Miscellaneous chemical products .......................... | 289 | 93.7 | 93.2 | 94.5 | 94.4 | - | 56.5 | 56.0 | 56.8 | 56.9 | - |
| Petroleum and coal products .................................. | 29 | 139.7 | 139.1 | 133.2 | 135.5 | 137.3 | 92.1 | 92.4 | 86.6 | 88.8 | 89.7 |
| Petroleum refining ............................................. | 291 | 97.0 | 97.3 | 93.1 | 93.3 | - | 63.3 | 64.0 | 60.3 | 60.5 | - |
| Asphalt paving and roofing materials .................... | 295 | 28.5 | 27.8 | 25.5 | 27.7 | - | 21.1 | 20.8 | 18.4 | 20.5 | - |
| Rubber and misc. plastics products ......................... | 30 | 995.1 | 993.1 | 1.007 .8 | 1,006.0 | 1,004.5 | 771.6 | 770.3 | 782.3 | 781.5 | 780.5 |
| Tires and inner tubes | 301 | 77.6 | 77.9 | 79.4 | 79.9 |  | 57.1 | 57.5 | 58.2 | 58.5 | - |
| Rubber and plastics footwear ..... | 302 | 6.9 | 6.8 | 6.9 | 6.7 | - | 5.5 | 5.4 | 5.3 | 5.2 | - |
| Hose, belting, gaskets, and packing ...................... | 305 | 69.2 | 68.6 | 72.1 | 72.4 | - | 53.1 | 52.5 | 55.8 | 55.8 | - |
| Rubber and plastics hose and belting .................. | 3052 | 28.1 | 28.0 | 29.2 | 29.3 | - | 21.9 | 21.7 | 23.0 | 23.0 | - |
| Fabricated rubber products, nec ............................ | 306 | 111.7 | 112.0 | 112.4 | 112.1 | - | 85.6 | 86.1 | 86.3 | 86.1 | - |
| Miscellaneous plastics products, nec .................... | 308 | 729.7 | 727.8 | 737.0 | 734.9 | - | 570.3 | 568.8 | 576.7 | 575.9 | - |

See footnotes at end of table.

## B-12. Employees on nonfarm payrolls by detailed industry-Continued

(In thousands)

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { Apr. } \\ 1997 \end{gathered}$ | Mar. 1998 | $\begin{aligned} & \text { Apr. } \\ & 1998 p \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. <br> 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1998 p \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Leather and leather products ................................. | 31 | 90.2 | 92.3 | 85.1 | 84.4 | 83.9 | 68.6 | 70.3 | 64.3 | 63.2 | 62.6 |
| Leather tanning and finishing ............................... | 311 | 12.9 | 13.4 | 13.2 | 13.2 | - | 10.6 | 10.9 | 10.9 | 10.9 | - |
| Footwear, except rubber ...................................... | 314 | 40.5 | 41.8 | 36.8 | 36.3 | - | 32.5 | 33.7 | 29.3 | 28.8 | - |
| Men's footwear, except athietic ........................... | 3143 | 21.6 | 21.9 | 20.3 | 19.7 | - | 16.9 | 17.1 | 15.8 | 15.2 | - |
| Women's footwear, except athletic | 3144 | 11.3 | 12.0 | 9.6 | 9.6 | - | 8.9 | 9.7 | 7.4 | 7.4 | - |
| Luggage ........................................................... | 316 | 10.3 | 10.4 | 10.6 | 10.2 | - | 7.6 | 7.8 | 7.2 | 6.5 | - |
| Handbags and personal leather goods ................... | 317 | 9.6 | 9.6 | 9.0 | 9.1 | - | 5.7 | 5.6 | 5.1 | 5.2 | - |
| Transportation and public utilitles ........................... |  | 6,395 | 6,361 | 6.456 | 6,483 | 6.544 | 5,355 | 5,345 | 5,329 | 5,347 | 5,412 |
| Transportation ...................................................... |  | 4,106 | 4,086 | 4,132 | 4,153 | 4,201 | - | - | - | - | - |
| Paiiroad transportation .......................................... | 40 | 226.9 | 224.4 | 228.0 | 229.6 | 230.8 | - | - | - | - | - |
| Class \| railroads plus Amtrak² ............................. | 4011 | 201.8 | 199.9 | 201.4 | 203.0 | - | - | - | - | - | - |
| Local and interurban passenger transit .................... | 41 | 450.6 | 463.8 | 472.8 | 468.3 | 479.3 | 412.0 | 425.8 | 434.1 | 429.4 | - |
| Local and suburban transportation ........................ | 411 | 229.8 | 228.3 | 234.8 | 236.0 | - | 208.8 | 207.7 | 213.7 | 214.4 | - |
| Taxicabs ........................................................... | 412 | 30.6 | 30.9 | 31.7 | 31.1 | - | - | - | - | - | - |
| Intercity and rural bus transportation ...................... | 413 | 21.2 | 21.1 | 21.2 | 21.4 | - | 19.2 | 18.8 | 19.1 | 19.2 | - |
| School buses ..................................................... | 415 | 135.7 | 149.7 | 151.4 | 145.0 | - | - | - | - | - | - |
| Trucking and warehousing ..................................... | 42 | 1,667.2 | 1,636.7 | 1,658.1 | 1,675.6 | 1,697.4 | 1,458.6 | 1,425.8 | 1,449.3 | 1,466.0 | - |
| Trucking and courier services, except air ................ | 421 | 1,506.9 | 1,479.3 | 1,496.1 | 1,515.6 | - | 1,324.8 | 1,294.7 | 1,314.0 | 1,332.7 | - |
| Public warehousing and storage ........................... | 422 | 155.0 | 152.1 | 156.8 | 155.1 | - | 129.0 | 126.3 | 130.6 | 129.0 | - |
| Water transportation .............................................. | 44 | 180.4 | 179.1 | 176.9 | 180.5 | 186.7 | - | - | - | - | - |
| Water transportation of freight, nec ........................ | 444 | 14.2 | 14.2 | 14.4 | 14.2 | - | - | - | - | - | - |
| Water transportation services ............................... | 449 | 121.2 | 120.6 | 120.5 | 123.2 | - | 107.3 | 106.7 | 105.8 | 108.2 | - |
| Transportation by air ............................................. | 45 | 1,127.9 | 1,130.2 | 1,136.6 | 1,139.0 | 1,143.7 | - | - | - | - | - |
| Air transportation, scheduled ................................ | 451 | 964.8 | 968.5 | 966.1 | 966.4 | - | - | - | - | - | - |
| Air transportation, scheduled .............................. | 4512 | 512.2 | 509.2 | 518.6 | 522.1 | - | - | - | - | - | - |
| Airports, flying fields, and services ........................ | 458 | 120 | 118 | 126 | 127 | - | - | - | - | - | - |
| Pipelines, except natural gas ................................. | 46 | 14.3 | 14.2 | 14.1 | 14.1 | 14.3 | 11.6 | 11.5 | 11.4 | 11.4 | - |
| Transportation services ........................................ | 47 | 438.6 | 437.2 | 445.9 | 446.2 | 448.4 | 357.3 | 355.7 | 364.9 | 365.0 | - |
| Passenger transportation arrangement .................. | 472 | 216.3 | 218.7 | 217.1 | 217.6 | - | 180.7 | 182.7 | 182.9 | 183.5 | - |
| Travel agencies ............................................... | 4724 | 171.1 | 172.6 | 173.8 | 173.6 | - | 143.3 | 144.3 | 146.4 | 146.3 | - |
| Freight transportation arrangement ....................... | 473 | 174.8 | 171.9 | 181.4 | 180.2 | - | 136.9 | 134.3 | 142.5 | 140.8 | - |
| Communications and public utilities .......................... |  | 2,290 | 2,275 | 2,324 | 2,330 | 2,343 | - | - | - | - | - |
| Communications | 48 | 1,423.5 | 1,408.2 | 1,469.2 | 1,477.4 | 1,488.7 | 1,093.3 | 1,096.1 | 1,061.6 | 1,059.8 | - |
| Telephone communications ................................. | 481 | 975.1 | 960.0 | 1,011.8 | 1,017.8 | - | 730.4 | 731.5 | 697.0 | 694.3 | - |
| Telephone communications, except radio ............. | 4813 | 823.5 | 813.1 | 846.7 | 854.4 | - | 609.2 | 613.3 | 575.6 | 576.9 | - |
| Radio and television broadcasting .. | 483 | 242.6 | 241.9 | 244.1 | 245.0 | - | 201.9 | 201.5 | 201.7 | 202.2 | - |
| Radio broadcasting stations ............................... | 4832 | 114.5 | 113.6 | 115.6 | 117.1 | - | - | - | - | - | - |
| Television broadcasting stations ......................... | 4833 | 128.1 | 128.3 | 128.5 | 127.9 | - | - | - | - | - | - |
| Cable and other pay television services ................. | 484 | 175.2 | 176.2 | 182.2 | 183.3 | - | 146.5 | 148.5 | 149.4 | 149.6 | - |
| Electric, gas, and sanitary services ......................... | 49 | 865.9 | 866.5 | 855.2 | 852.4 | 854.3 | 688.6 | 688.3 | 680.7 | 679.8 | - |
| Electric services ..... | 491 | 368.3 | 368.0 | 363.1 | 361.4 | - | 294.2 | 293.7 | 291.8 | 290.8 | - |
| Gas production and distribution | 492 | 142.5 | 143.3 | 140.5 | 139.7 | - | 110.3 | 110.8 | 109.0 | 108.4 | - |
| Combination utility services .. | 493 | 160.4 | 161.4 | 157.5 | 157.2 | - | 124.4 | 125.3 | 122.0 | 122.0 | - |
| Sanitary services ................ | 495 | 162.2 | 161.6 | 161.7 | 161.6 | - | 134.1 | 133.4 | 132.2 | 133.1 | - |
| Wholesale trade .................................................... |  | 6,648 | 6,595 | 6,744 | 6,780 | 6,809 | 5,355 | 5,313 | 5,396 | 5,425 | 5,451 |
| Durable goods ...................................................... | 50 | 3,935 | 3.899 | 4,027 | 4,047 | 4,059 | 3,128 | 3,102 | 3,170 | 3,185 | - |
| Motor vehicles, parts, and supplies | 501 | 513.6 | 511.2 | 516.2 | 516.9 | - | 418.2 | 417.3 | 413.2 | 413.0 | - |
| Automobiles and other motor vehicles | 5012 | 144.0 | 142.3 | 147.9 | 148.1 | - | - | - | - | - | - |
| Motor vehicle supplies and new parts. | 5013 | 291.6 | 291.2 | 289.8 | 289.8 | - | - | - | - | - | - |
| Furniture and home furnishings | 502 | 156.9 | 155.4 | 162.5 | 162.1 | - | 125.0 | 123.8 | 129.0 | 128.3 | - |
| Furniture | 5021 | 74.9 | 74.0 | 78.4 | 77.9 | - | - | - | - | - | - |
| Home furnishings ............................................... | 5023 | 82.0 | 81.4 | 84.1 | 84.2 | - | - | - | - | - | - |

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-12. Employees on nonfarm payrolls by detailed industry-Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { Apr. } \\ 1997 \end{gathered}$ | Mar. <br> 1998 | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. <br> 1997 | Apr. 1997 | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | Apr. $1998{ }^{p}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Wholesale trade-ContinuedDurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lumber and other construction materials ................. | 503 | 256.2 | 253.7 | 259.1 | 264.3 | - | 211.4 | 209.1 | 214.4 | 219.2 | - |
| Lumber, plywood, and millwork | 5031 | 131.0 | 130.0 | 134.1 | 135.1 | - | - | - | - | - | - |
| Construction materials, nec ...... | 5039 | 38.1 | 37.7 | 37.6 | 38.7 | - | - | - | - | - | - |
| Professional and commercial equipment | 504 | 862.7 | 852.2 | 895.2 | 898.3 | - | 676.9 | 669.8 | 690.9 | 692.3 | - |
| Office equipment ............................................... | 5044 | 198.7 | 195.7 | 208.8 | 210.1 | - | - | - | - | - | - |
| Computers, peripherals and software ..................... | 5045 | 345.4 | 341.4 | 359.2 | 358.7 | - | - | - | - | $\bar{\square}$ | - |
| Medical and hospital equipment ........ | 5047 | 180.5 | 178.6 | 186.5 | 186.4 | - | 146.2 | 144.9 | 150.3 | 150.0 | - |
| Metais and minerals, except petroleum | 505 | 147.0 | 146.6 | 150.4 | 151.4 | - | 118.9 | 118.4 | 121.5 | 122.1 | - |
| Electrical goods ............................... | 506 | 538.0 | 532.0 | 552.3 | 552.9 | - | 401.2 | 397.6 | 402.1 | 401.1 | - |
| Electrical apparatus and equipment ...................... | 5063 | 224.3 | 221.4 | 231.2 | 231.6 | - | - | - | - | - | - |
| Electrical appliances, television and radio sets | 5064 | 49.6 | 49.7 | 49.4 | 49.5 | - | - | - | - | - | - |
| Electronic parts and equipment ............................ | 5065 | 264.1 | 260.9 | 271.7 | 271.8 | - | - | - | - | - |  |
| Hardware, plumbing, and heating equipment ............ | 507 | 300.6 | 299.3 | 301.5 | 302.0 | - | 244.7 | 244.1 | 245.2 | 246.3 | - |
| Hardware .......................................................... | 5072 | 106.7 | 106.1 | 108.4 | 108.9 | - | - | - | - | - |  |
| Plumbing and hydronic heating supplies | 5074 | 118.9 | 118.7 | 118.3 | 118.4 | - | - | - | - | - | - |
| Machinery, equipment, and supplies ........................ | 508 | 816.7 | 810.5 | 835.2 | 841.5 | - | 653.2 | 648.1 | 666.8 | 672.6 | - |
| Construction and mining machinery ...................... | 5082 | 88.0 | 86.8 | 91.0 | 91.7 | - | - | - | - | - |  |
| Farm and garden machinery ................................ | 5083 | 121.3 | 121.5 | 122.6 | 124.8 | - | - | - | - | - | - |
| Industrial machinery and equipment ....................... | 5084 | 329.9 | 326.3 | 338.1 | 339.7 | - | - | - | - | - | - |
| Industrial supplies ............................................... | 5085 | 153.1 | 151.9 | 156.9 | 158.7 | - | 278.4 | 2739 | 286.7 | 290.1 | - |
| Misc. wholesale trade durable goods ...................... | 509 | 343.4 | 338.3 | 354.3 | 357.7 | - | 278.4 | 273.9 | 286.7 | 290.1 |  |
| Scrap and waste materials .................................. | 5093 | 130.3 | 128.1 | 133.8 | 134.4 | - | - | - | - | - | - |
| Nondurable goods ................................................. | 51 | 2,713 | 2,696 | 2,717 | 2,733 | 2,750 | 2,228 | 2,211 | 2,226 | 2,240 | - |
| Paper and paper products ..................................... | 511 | 264.7 | 263.7 | 266.0 | 266.5 | - | 222.6 | 222.2 | 222.3 | 222.7 | - |
| Stationery and office supplies | 5112 | 153.3 | 152.0 | 155.4 | 155.6 | - | - 77 | - | -7 7 | - | - |
| Drugs, proprietaries, and sundries .......................... | 512 | 212.7 | 211.4 | 214.0 | 213.7 | - | 177.1 | 175.6 | 177.7 | 177.2 | - |
| Apparel, piece goods, and notions .......................... | 513 | 221.6 | 219.8 | 222.5 | 222.6 | - | 178.7 | 176.4 | 179.8 | 180.3 | - |
| Groceries and related products .............................. | 514 | 903.5 | 891.7 | 897.2 | 896.6 | - | 759.7 | 748.3 | 753.8 | 751.8 | - |
| Groceries, general line ........................................ | 5141 | 286.8 | 284.1 | 288.1 | 288.6 | - | - | - | - | - | - |
| Meats and meat products .................................... | 5147 | 55.6 | 56.0 | 55.3 | 54.6 | - | - | - | - | - | - |
| Fresh fruits and vegetables .................................. | 5148 | 102.3 | 98.2 | 92.7 | 93.3 | - | $\bar{\square}$ | $\overline{7}$ | $\bar{\square}$ | $\overline{7}$ | - |
| Farm-product raw materials ................................... | 515 | 106.6 | 104.2 | 103.7 | 104.9 | - | 85.8 | 83.7 | 83.3 | 84.7 | - |
| Chemicals and allied products ................................ | 516 | 151.0 | 151.7 | 150.1 | 149.9 | - | 110.5 | 111.3 | 109.6 | 109.6 | - |
| Petroleum and petroleum products ....................... | 517 | 156.0 | 154.6 | 156.9 | 157.7 | - | 129.2 | 127.9 | 129.6 | 130.2 | - |
| Petroleum bulk stations and terminals .................... | 5171 | 63.9 | 63.4 | 65.4 | 65.4 | - | - | - | - | - | - |
| Petroleum products, nec ...................................... | 5172 | 92.2 | 91.2 | 91.5 | 92.3 | - | - | - | - | - | - |
| Beer, wine, and distilled beverages ......................... | 518 | 153.6 | 151.9 | 152.0 | 152.9 | - | 124.2 | 122.8 | 122.4 | 123.1 | - |
| Beer and ale ...................................................... | 5181 | 98.4 | 97.0 | 97.1 | 97.9 | - | - | - | - | - | - |
| Wine and distilled beverages ............................... | 5182 | 55.2 | 54.9 | 54.9 | 55.0 | - | $\bar{\square}$ | - | - | - | - |
| Misc. wholesale trade nondurable goods ................. | 519 | 543.2 | 546.7 | 554.4 | 568.4 | - | 439.6 | 443.2 | 447.4 | 460.1 | - |
| Farm supplies .................................................... | 5191 | 165.0 | 169.6 | 167.9 | 176.5 | - | - | - | - | - | - |
| Retail trade ............................................................ |  | 22,011 | 21,665 | 21,823 | 22,078 | 22,425 | 19,375 | 19,048 | 19,149 | 19,364 | 19,697 |
| Building materials and garden supplies ..................... | 52 | 936.7 | 946.2 | 930.5 | 975.8 | 1,006.8 | 779.8 | 789.8 | 768.3 | 812.1 | - |
| Lumber and other building materials ....................... | 521 | 567.6 | 567.4 | 568.0 | 585.1 | - | 480.3 | 480.5 | 477.2 | 492.9 | - |
| Paint, glass, and wallpaper stores .......................... | 523 | 67.8 | 66.5 | 68.6 | 68.8 | - | 52.5 | 51.2 | 52.7 | 52.9 | - |
| Hardware stores | 525 | 163.2 | 162.7 | 161.5 | 163.9 | - | 134.4 | 134.1 | 132.1 | 134.6 | - |
| Retail nurseries and garden stores .......................... | 526 | 94.8 | 107.3 | 86.3 | 110.3 | - | 78.5 | 90.6 | 70.2 | 93.7 | - |
| General merchandise stores | 53 | 2,717.9 | 2,602.0 | 2,660.0 | 2,674.4 | 2,714.4 | 2,527.5 | 2,416.2 | 2,454.9 | 2,470.1 | - |
| Department stores | 531 | 2,388.7 | 2,287.8 | 2,343.2 | 2,356.0 | 2,395.9 | 2,244.6 | 2,147.0 | 2,185.0 | 2,198.9 | - |
| Variety stores ....................................................... | 533 | 139.4 | 133.9 | 133.6 | 136.2 | - | 118.7 | 114.0 | 112.8 | 115.2 | - |
| Miscellaneous general merchandise stores .............. | 539 | 189.7 | 180.3 | 183.2 | 182.2 | - | 164.3 | 155.2 | 157.1 | 156.0 | - |
| Food stores ........................................................... | 54 | 3,495.7 | 3,440.2 | 3,486.8 | 3,489.6 | 3,518.4 | 3,172.7 | 3,117.1 | 3,160.9 | 3,161.1 | - |
| Grocery stores ..................................................... | 541 | 3,073.3 | 3,035.8 | 3,060.2 | 3,051.3 | - | 2,810.9 | 2,772.2 | 2,796.6 | 2,786.0 | - |
| Meat and fish markets .......................................... | 542 | 48.3 | 47.1 | 47.1 | 50.5 | - | - | - | - | - | - |
| Dairy products stores ............................................ | 545 | 14.3 | 13.2 | 12.3 | 13.1 | - | - | - | - |  | - |
| Retail bakeries. | 546 | 209.5 | 204.6 | 221.1 | 222.7 | - | 183.2 | 179.2 | 192.9 | 193.6 | - |
| Automotive dealers and service stations .................... | 55 | 2,313.9 | 2,300.1 | 2,311.2 | 2,327.2 | 2,350.0 | 1,935.6 | 1,926.8 | 1,920.8 | 1,929.5 | - |
| New and used car dealers ..................................... | 551 | 1,050.8 | 1,047.6 | 1,054.7 | 1,056.7 | 1,061.0 | 882.0 | 879.0 | 883.8 | 884.3 | - |

See footnotes at end of table.

## B-12. Employees on nonfarm payrolls by detailed industry-Continued

(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. 1997 | Mar. <br> 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. 1997 | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{aligned} & \text { May } \\ & 1998 \mathrm{p} \end{aligned}$ |
| Retail trado-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Automotive dealers and service stations-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Auto and home supply stores ................................. | 553 | 395.2 | 389.2 | 397.3 | 400.4 | - | 314.7 | 315.0 | 305.4 | 307.1 | - |
| Gasoline service stations ..................................... | 554 | 671.1 | 665.1 | 658.3 | 663.7 | - | 581.9 | 574.8 | 571.1 | 573.3 | - |
| Automotive dealers, nec ....................................... | 559 | 9.5 | 9.4 | 9.8 | 9.7 | - | 8.0 | 7.8 | 8.0 | 7.8 | - |
| Apparel and accessory stores ................................. | 56 | 1,097.7 | 1,068.2 | 1,064.0 | 1,075.0 | 1,078.9 | 913.0 | 882.9 | 887.2 | 895.7 | - |
| Men's and boys' clothing stores .............................. | 561 | 81.0 | 80.9 | 79.2 | 80.3 | - | 64.7 | 64.7 | 64.4 | 65.1 | - |
| Women's clothing stores ....................................... | 562 | 281.8 | 280.0 | 267.4 | 268.0 | - | 234.0 | 231.9 | 222.2 | 222.6 | - |
| Family clothing stores .... | 565 | 347.3 | 327.2 | 337.8 | 340.1 | - | 306.1 | 284.7 | 299.7 | 301.4 | - |
| Shoe stores .............. | 566 | 200.7 | 198.2 | 194.5 | 200.2 | - | 158.5 | 156.6 | 154.3 | 159.3 | - |
| Furniture and home furnishings stores ....................... | 57 | 1,009.0 | 983.4 | 1,037.2 | 1,035.3 | 1,038.8 | 828.3 | 804.8 | 851.7 | 849.9 | - |
| Furniture and home furnishings stores ..................... | 571 | 517.5 | 507.5 | 529.4 | 530.4 | - | 421.3 | 412.0 | 430.0 | 430.7 | - |
| Furniture stores ............................. | 5712 | 302.3 | 297.4 | 314.3 | 315.4 | - | - | - | $\overline{5}$ | - 50.1 | - |
| Household appliance stores | 572 | 71.5 | 71.1 | 69.6 | 69.3 | - | 57.8 | 57.1 | 56.3 | 56.1 | - |
| Radio, television, and computer stores .................... | 573 | 419.9 | 404.8 | 438.2 | 435.6 | - | 349.2 | 335.7 | 365.4 | 363.1 | - |
| Radio, television, and electronic stores .................. | 5731 | 185.1 | 176.7 | 191.9 | 191.1 | - | 154.4 | 147.2 | 159.8 | 159.4 | - |
| Record and prerecorded tape stores ...................... | 5735 | 79.3 | 77.6 | 81.1 | 80.2 | - | 65.3 | 63.3 | 68.3 | 67.0 | - |
| Eating and drinking places ...................................... | 58 | 7,635.8 | 7,610.3 | 7,519.8 | 7,676.1 | 7,860.3 | 6,875.9 | 6,850.3 | 6,762.4 | 6,895.3 | - |
| Miscellaneous retail establishments .......................... | 59 | 2,804.1 | 2,714.6 | 2,813.7 | 2,824.1 | 2,856.9 | 2,342.3 | 2,259.9 | 2,342.6 | 2,349.8 | - |
| Drug stores and proprietary stores | 591 | 627.5 | 621.0 | 642.5 | 640.6 | - | 521.7 | 514.2 | 539.6 | 537.2 | - |
| Liquor stores ............... | 592 | 111.4 | 109.3 | 110.5 | 111.5 | - | - | - | - | - | - |
| Used merchandise stores | 593 | 114.5 | 111.5 | 119.0 | 120.1 | - | 95.3 | 92.6 | 99.2 | 99.9 | - |
| Miscellaneous shopping goods stores | 594 | 991.8 | 938.8 | 972.2 | 971.5 | - | 833.6 | 784.8 | 808.0 | 806.9 | - |
| Sporting goods and bicycle shops | 5941 | 190.6 | 181.3 | 191.3 | 192.8 | - | - | - | - | - | - |
| Book stores .............................. | 5942 | 129.0 | 124.8 | 127.4 | 124.1 | - | - | - | - | - | - |
| Stationery stores | 5943 | 88.6 | 87.9 | 91.9 | 91.9 | - | - | - | - | - | -- |
| Jewelry stores ................................................... | 5944 | 144.6 | 138.6 | 142.8 | 141.1 | - | - | - | - | - | - |
| Gift, novelty, and souvenir shops .......................... | 5947 | 226.1 | 212.9 | 217.6 | 221.2 | - | - | - | - | - | - |
| Sewing, needlework, and piece goods ................... | 5949 | 50.7 | 50.0 | 50.0 | 50.0 | - | - | - | - | - | - |
| Nonstore retailers ................................................ | 596 | 344.5 | 329.3 | 348.8 | 346.5 | - | 292.0 | 278.7 | 295.1 | 293.3 | - |
| Catalog and mail-order houses ............................. | 5961 | 221.3 | 206.6 | 223.6 | 220.8 | - | - | - | - | - | - |
| Merchandising machine operators ........................ | 5962 | 68.3 | 68.5 | 68.7 | 69.3 | - | - | - | - | - | - |
| Fuel dealers ......................................................... | 598 | 98.1 | 97.3 | 99.7 | 96.9 | - | 81.1 | 80.2 | 82.9 | 80.0 | - |
| Retail stores, nec .................................................. | 599 | 516.3 | 507.4 | 521.0 | 537.0 | - | 427.6 | 420.4 | 428.4 | 442.2 | - |
| Florists, tobacoo stores, and newsstands ................ | 5992,3,4 | 152.5 | 151.4 | 153.4 | 161.7 | - | - | - | - | - | - |
| Optical goods stores ........................................... | 5995 | 67.6 | 66.2 | 73.3 | 73.9 | - | 56.3 | 55.4 | 59.1 | 59.0 | - |
| Miscellaneous retail stores, nec ........................... | 5999 | 296.3 | 289.8 | 294.3 | 301.4 | - | 240.9 | 235.2 | 239.8 | 245.9 | - |
| Finance, insurance, and real estate ${ }^{3}$....................... |  | 7,091 | 7,023 | 7,213 | 7,258 | 7,305 | 5,180 | 5,123 | 5,287 | 5,326 | 5,364 |
| Finance ................................................................ |  | 3,413 | 3,379 | 3,504 | 3,512 | 3,529 | - | - | - | - | - |
| Depository institutions .......................................... | 60 | 2,027.0 | 2,015.4 | 2,034.8 | 2,033.4 | 2,038.9 | $1,457.3$ | 1,448.8 | 1,462.8 | 1,460.7 | - |
| Commercial banks .............................................. | 602 | 1,460.1 | 1,451.6 | 1,459.0 | 1,455.9 | 1,459.2 | 1,034.8 | 1,028.4 | 1,034.7 | 1,030.9 | - |
| State commercial banks ... | 6022 | 588.4 | 582.1 | 595.5 | 596.7 | - | 420.7 | 416.2 | 426.2 | 426.4 | - |
| National and commercial banks, nec .................... | 6021,9 | 871.6 | 869.5 | 863.5 | 859.2 | - | 614.2 | 612.2 | 608.5 | 604.5 | - |
| Savings institutions ............................................. | 603 | 261.5 | 261.4 | 261.8 | 262.6 | 263.3 | - | - | - | - | - |
| Federal savings institutions ............................... | 6035 | 145.1 | 144.5 | 145.4 | 145.7 | - | - | - | - | - | - |
| Savings institutions, except federal ..................... | 6036 | 116.4 | 116.9 | 116.4 | 116.9 | - | - | - | - | - | - |
| Credit unions ..................................................... | 606 | 171.7 | 169.6 | 176.8 | 177.2 | - | 136.3 | 134.5 | 140.4 | 141.0 | - |
| Nondepository institutions ..................................... | 61 | 567.2 | 559.3 | 602.3 | 605.7 | 612.7 | 401.6 | 398.1 | 416.5 | 418.5 | - |
| Personal credit institutions ................................... | 614 | 179.6 | 176.6 | 185.5 | 184.8 | - | 123.0 | 124.1 | 112.8 | 110.8 | - |
| Business credit institutions .................................. | 615 | 114.2 | 112.4 | 119.5 | 119.7 | - | - | - | - | - | - |
| Mortgage bankers and brokers ............................. | 616 | 252.5 | 249.3 | 275.6 | 279.1 | 284.3 | - | - | - | - | - |
| Security and commodity brokers ............................ | 62 | 596.8 | 585.2 | 630.5 | 634.2 | 637.6 | - | - | - | - | - |
| Security brokers and deaiers ............................... | 621 | 444.8 | 437.2 | 464.1 | 466.3 | - | - | - | - | - | - |
| Commodity contracts brokers, dealers, and exhanges $\qquad$ | 622,3 | 25.1 | 24.8 | 25.4 | 25.3 | - | - | - | $\overline{-}$ |  | - |
| Security and commodity services ......................... | 628 | 126.9 | 123.2 | 141.0 | 142.6 | - | 84.2 | 81.6 | 94.6 | 95.4 | - |
| Holding and other investment offices | 67 | 221.8 | 218.9 | 236.3 | 239.0 | 239.9 | - | - | - | - | - |
| Hoiding offices ......................................... | 671 | 106.1 | 105.2 | 109.7 | 109.8 | - | - | - | - | - | - |

See footnotes at end of table.

ESTABLISHMENT DATA
EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-12. Employees on nonfarm payrolls by detailed industry-Continued
(In thousands)

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | Apr. 1997 | Mar. 1998 | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{gathered} \text { Apr. } \\ \text { 1998p } \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \mathrm{p} \end{gathered}$ |
| Finance, Insurance, and real estate-mentinued Insurance | 63,64 | 2,260 | 2,245 | 2,298 | 2,308 | 2,317 | - | - | - | - | - |
| Insurance carriers | 63 | 1,535.4 | 1,523.4 | 1,562.7 | 1,571.6 | 1,578.2 | 1,117.1 | 1,099.4 | 1,173.4 | 1,184.9 | - |
| Life insurance | 631 | 517.7 | 513.3 | 523.3 | 526.1 | - | 338.9 | 336.3 | 345.5 | 350.4 | - |
| Medical service and health insurance .................... | 632 | 339.4 | 336.0 | 348.4 | 351.1 | - | 277.1 | 274.9 | 282.7 | 284.6 | - |
| Hospital and medical service plans ........................... | 6324 | 277.3 | 274.6 | 285.8 | 288.3 | - | 229.6 | 227.7 | 235.5 | 237.7 | - |
| Fire, marine, and casualty insurance | 633 | 537.8 | 536.3 | 541.5 | 542.4 | - | 388.4 | 377.7 | 424.9 | 427.0 | - |
| Title insurance ................................................... | 636 | 71.6 | 70.0 | 77.2 | 79.1 | - | - | - | - | - | - |
| Insurance agents, brokers, and service .................... | 64 | 724.4 | 721.5 | 735.7 | 736.2 | 738.3 | - | - | - | - | - |
| Real estate ........................................................... | 65 | 1,419 | 1,399 | 1,411 | 1,438 | 1,459 | - | - | - | - | - |
| Real estate operators and lessors ........................... | 651 | 580.8 | 578.4 | 572.3 | 576.8 | - | - | - | - | - | - |
| Real estate agents and managers | 653 | 688.7 | 674.1 | 692.3 | 705.4 | - | - | - | - | - | - |
| Subdividers and developers .................................. | 655 | 115.9 | 114.2 | 109.6 | 118.8 | - | - | - | - | - | - |
| Services ................................................................ |  | 36,040 | 35,764 | 36,864 | 37,261 | 37,525 | 31,513 | 31,274 | 32,171 | 32,523 | 32,759 |
| Agricultural services .............................................. | 07 | 679.1 | 677.3 | 617.3 | 711.8 | 757.6 | 573.3 | 571.9 | 512.5 | 599.9 | - |
| Veterinary services .............................................. | 074 | 181.6 | 179.0 | 184.7 | 187.1 | - | 152.7 | 150.5 | 155.2 | 157.3 | - |
| Landscape and horticultural services ...................... | 078 | 447.1 | 448.8 | 384.1 | 475.1 | - | 378.9 | 380.7 | 316.8 | 401.5 | - |
| Hotels and other lodging places ............................... | 70 | 1,744.2 | 1,702.2 | 1,688.8 | 1.721 .6 | 1,787.2 | 1, $\overline{8}$ | 1, $\overline{-1}$ | 1, - | 1, -- | - |
| Hotels and motels ................................................ | 701 | 1,692.6 | 1,656.6 | 1,647.9 | 1,678.1 |  | 1,489.8 | 1,453.4 | 1,444.0 | 1,469.5 | - |
| Personal services .................................................. | 72 | 1,181.9 | 1,241.1 | 1,239.8 | 1,238.7 | 1,176.3 | - | - | - | - | - |
| Laundry, cleaning, and garment services ............... | 721 | 438.8 | 435.2 | 438.9 | 440.5 | 1, | 385.9 | 382.4 | 386.0 | 387.8 | - |
| Photographic studios, portrait ............................... | 722 | 70.8 | 68.3 | 56.9 | 57.4 | - | $\stackrel{-}{-}$ | - | - | - | - |
| Beauty shops ..................................................... | 723 | 397.0 | 397.1 | 400.7 | 399.6 | - | 353.3 | 352.7 | 353.8 | 353.2 | - |
| Funeral service and crematories .......................... | 726 | 97.5 | 98.2 | 99.4 | 99.8 | - | - | 198 | 202 | 200 | - |
| Miscellaneous personal services ........................... | 729 | 162.0 | 226.5 | 228.6 | 226.2 | - | 137.5 | 198.8 | 202.2 | 200.1 | - |
| Business services | 73 | 7,982.7 | 7,778.7 | 8,285.6 | 8,352.3 | 8,468.1 | 7,091.2 | 6,901.8 | 7,341.2 | 7,397.8 | - |
| Advertising .................................................................................... | 731 | 254.7 | 251.4 | 264.1 | 264.0 | - | 184.9 | 182.9 | 190.1 | 190.1 | - |
| Advertising agencies | 7311 | 167.7 | 165.2 | 172.8 | 172.7 | - | - | - | - | - | - |
| Credit reporting and collection ................................ | 732 | 134.0 | 132.4 | 137.4 | 138.9 | - | - | - | - | - | - |
| Mailing, reproduction, and stenographic services ..... | 733 | 305.9 | 303.4 | 314.1 | 314.3 | - | 64.6 | 645 | 669 | 67. | - |
| Photocopying and duplicating services .................. | 7334 | 76.4 | 76.1 | 78.8 | 79.8 | $\bigcirc$ | 64.6 | 64.5 | 66.9 | 67.9 | - |
| Services to buildings ............................................. | 734 | 937.4 | 932.8 | 959.5 | 965.1 | 976.8 | 837.5 | 833.3 | 856.9 | 862.7 | - |
| Disinfecting and pest control services .................... | 7342 | 88.7 | 88.9 | 93.0 | 95.4 | - | 71.1 | 71.2 | 75.1 | 76.9 | - |
| Building maintenance services, nec ...................... | 7349 | 848.8 | 843.9 | 866.5 | 869.7 | - | 766.4 | 762.1 | 781.8 | 785.8 | - |
| Miscellaneous equipment rental and leasing ............. | 735 | 250.7 | 247.5 | 254.5 | 257.3 | - | 201.2 | 198.1 | 200.9 | 202.6 | - |
| Medical equipment rental .................................... | 7352 | 40.5 | 40.2 | 41.5 | 40.6 | - | 31.0 | 31.1 | 30.5 | 29.6 | - |
| Heavy construction equipment rental .................... | 7353 | 44.7 | 44.9 | 45.4 | 45.9 | - | 37.8 | 37.8 | 38.5 | 38.9 | - |
| Equipment rental and leasing, nec .... | 7359 | 165.5 | 162.4 | 167.6 | 170.8 | , | 132.4 | 129.2 | 131.9 | 134.1 | - |
| Personnel supply services ............. | 736 | 2,968.4 | 2,851.7 | 3,041.2 | 3,078.0 | 3,143.5 | - | - | - | - | - |
| Employment agencies ... | 7361 | 322.7 | 319.1 2532.6 | 330.4 | 334.5 2743.5 | -2, | - 573 | 2.460 .4 | 2633.3 | - $\square^{-}$ | - |
| Help supply services ........ | 7363 | 2,645.7 | 2,532.6 | 2,710.8 | 2,743.5 | 2,811.6 | 2,573.4 | 2,460.4 | 2,633.3 | 2,663.7 | - |
| Computer and data processing services | 737 | 1,410.6 | 1,375.2 | 1,544.5 | 1,559.0 | 1,574.1 | 1,125.4 | 1,096.8 | 1,233.4 | 1,243.6 | - |
| Computer programming services .. | 7371 | 321.7 | 311.7 | 356.5 | 359.5 | - | 273.3 | 263.3 | 304.4 | 306.1 | - |
| Prepackaged sotware ........................................ | 7372 | 229.6 | 222.5 | 257.8 | 260.9 | - | - | - | - | - | - |
| Computer integrated systems design ..................... | 7373 | 162.9 | 160.1 | 177.9 | 178.2 | - | 114.5 | 112.3 | 124.1 | 124.0 | - |
| Data processing and preparation ......................... | 7374 | 248.6 | 245.6 | 264.8 | 266.9 | - | - | - | - | - | - |
| Information retrieval services ....... | 7375 | 81.3 | 80.1 | 87.6 | 89.2 | - | 58.9 | 58.5 | 61.4 | 63.4 | - |
| Computer maintenance and repair ........................ | 7378 | 57.2 | 56.2 | 57.3 | 57.5 | - | 40.2 | 39.8 | 39.1 | 39.6 | - |
| Miscellaneous business services ........................... | 738 | 1,720.9 | 1,684.3 | 1,770.3 | 1,775.7 | - | 1.498 .5 | 1,466.7 | 1,541.3 | 1,544.1 | - |
| Detective and armored car services ....................... | 7381 | 572.3 | 560.6 | 589.4 | 596.1 | - | 528.5 | 516.6 | 542.8 | 549.3 | - |
| Security systems services ................................... | 7382 | 57.9 | 56.2 | 58.4 | 58.3 | - | 49.5 | 48.0 | 49.3 | 48.0 | - |
| Photofinishing laboratories ...................................................... | 7384 | 75.6 | 71.7 | 76.7 | 77.2 | - | - | - | - | - | - |
| Auto repair, services, and parking ............................ | 75 | 1,124.3 | 1,120.2 | 1,144.2 | 1,145.5 | 1,153.5 | 924.8 | 923.9 | 932.1 | 931.0 | - |
| Automotive rentals, without drivers | 751 | 197.5 | 193.8 | 201.5 | 202.4 | - | 162.3 | 159.0 | 164.3 | 164.7 | - |
| Passenger car rental. | 7514 | 130.1 | 126.7 | 134.8 | 135.4 | - | 108.5 | 106.0 | 111.6 | 111.6 | - |
| Automobile parking .............................................. | 752 | 72.3 | 72.1 | 74.2 | 75.1 | - | 63.6 | 63.9 | 64.6 | 65.5 | - |
| Automotive repair shops ... | 753 | 621.5 | 620.4 | 624.5 | 625.3 | - | 499.5 | 500.3 | 495.5 | 493.8 | - |
| Automotive and tire repair shops | 7532,4 | 216.4 | 215.8 | 219.4 | 218.3 | - | 177.5 | 177.5 | 179.3 | 178.3 | - |
| General automotive repair shops .......................... | 7538 | 264.5 | 264.1 | 264.6 | 265.8 | - | 212.2 | 213.5 | 206.4 | 204.9 | - |

See footnotes at end of table.

## B-12. Employees on nonfarm payrolis by detailed industry-Continued

(In thousands)

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | All employees |  |  |  |  | Production workers ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. 1997 | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Services-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Auto repair, services, and parking-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Automotive services, except repair .......................... | 754 | 232.9 | 233.9 | 244.0 | 242.7 | - | 199.5 | 200.7 | 207.7 | 207.0 | - |
| Carwashes ........................................................ | 7542 | 123.9 | 127.5 | 130.4 | 129.0 | - | 109.6 | 113.0 | 115.3 | 114.5 | - |
| Miscellaneous repair services ................................. | 76 | 375.9 | 371.6 | 378.8 | 382.9 | 384.2 | 307.5 | 303.6 | 309.5 | 312.9 | - |
| Electrical repair shops .......................................... | 762 | 115.1 | 114.1 | 115.3 | 116.6 | - | - | - | - | - |  |
| Motion pictures ...................................................... | 78 | 548.1 | 536.6 | 567.2 | 561.5 | 557.8 | 459.5 | 448.5 | 474.6 | 467.9 | - |
| Motion picture production and services .................... | 781 | 233.4 | 227.8 | 243.4 | 238.5 | - | 195.3 | 189.4 | 203.9 | 198.5 | $\rightarrow$ |
| Motion picture theaters ......................................... | 783 | 131.8 | 127.3 | 131.3 | 131.5 | - | - | $\bar{\square}$ | - | - | - |
| Video tape rental ................................................. | 784 | 162.9 | 161.1 | 172.4 | 171.9 | - | 131.5 | 129.8 | 139.0 | 138.2 | - |
| Amusement and recreation services | 79 | 1,572.9 | 1,522.0 | 1,502.7 | 1,634.8 | 1,758.4 | 1,378.8 | 1,329.0 | 1,297.8 | 1,423.3 | - |
| Bowling centers .. | 793 | 81.4 | 87.3 | 85.4 | 83.9 | - | 72.6 | 78.4 | 76.6 | 75.0 | - |
| Misc. amusement and recreation services ............... | 799 | 1,152.0 | 1,100.3 | 1,082.1 | 1,188.7 | - | 1,011.5 | 961.1 | 935.4 | 1,037.6 | - |
| Physical fitness facilities | 7991 | 165.4 | 163.6 | 177.5 | 179.2 | - | 147.1 | 145.8 | 158.4 | 159.7 | - |
| Membership sports and recreation clubs ................ | 7997 | 328.2 | 299.3 | 282.8 | 332.7 | - | 288.6 | 260.3 | 243.1 | 290.7 | - |
| Health services | 80 | 9,719.5 | 9,657.7 | 9,848.3 | 9,859.2 | 9,882.7 | 8,613.5 | 8,559.2 | 8,729.6 | 8,733.7 | - |
| Offices and clinics of medical doctors ...................... | 801 | 1,742.9 | 1,722.6 | 1,790.3 | 1,798.6 | 1,807.2 | 1,430.8 | 1,414.4 | 1,477.0 | 1,481.2 | - |
| Offices and clinics of dentists | 802 | 628.2 | 626.3 | 636.1 | 638.1 | - | 549.4 | 548.4 | 555.1 | 556.3 | - |
| Offices and clinics of other health practitioners .......... | 804 | 439.3 | 432.5 | 460.8 | 462.9 | - | 365.5 | 360.2 | 380.4 | 382.8 | - |
| Offices and clinics of chiropractors and optometrists | 8041,2 | 165.2 | 162.7 | 169.0 | 169.2 | - | -757 | - 51.7 | - | - | - |
| Nursing and personal care facilities ......................... | 805 | 1,754.5 | 1,748.1 | 1,756.8 | 1,755.8 | 1,755.5 | 1,577.7 | 1,571.7 | 1,580.0 | 1,579.2 | - |
| Skilled nursing care facilities ................................ | 8051 | 1,330.3 | 1,326.0 | 1,331.8 | 1,331.0 | - | - | - | - | - | - |
| Intermediate care facilities .. | 8052 | 207.9 | 207.6 | 207.4 | 208.1 | - | 186.9 | 187.1 | 186.5 | 187.3 | - |
| Nursing and personal care, nec ............................. | 8059 | 216.3 | 214.5 | 217.6 | 216.7 | - | - | - | - | $\bigcirc$ | - |
| Hospitals ............................................................ | 806 | 3,868.7 | 3,846.0 | 3,924.9 | 3,932.5 | 3,939.9 | 3,545.0 | 3,522.0 | 3,598.0 | 3,603.5 | - |
| General medical and surgical hospitals .................. | 8062 | 3,567.0 | 3,545.8 | 3,618.2 | 3,624.6 | - | - | - | - | - | - |
| Psychiatric hospitals ........................................... | 8063 | 84.1 | 84.2 | 84.2 | 84.5 | - | - | - | - | - | - |
| Specialty hospitals, excluding psychiatric ................ | 8069 | 217.6 | 216.0 | 222.5 | 223.4 | - | - | - | - | - | - |
| Medical and dental laboratories .............................. | 807 | 198.5 | 197.6 | 200.9 | 201.0 | - | - | - | - | - | - |
| Home health care services | 808 | 712.5 | 711.8 | 694.8 | 686.6 | 685.5 | 656.7 | 656.5 | 640.5 | 632.2 | - |
| Legal services ....................................................... | 81 | 947.3 | 937.6 | 966.2 | 967.7 | 969.9 | 756.1 | 748.5 | 769.6 | 770.6 | - |
| Educational services ............................................... | 82 | 2,114.2 | 2,223.9 | 2,324.2 | 2,333.7 | 2,245.6 | - | - | - | - | - |
| Elementary and secondary schools | 821 | 627.8 | 635.4 | 663.6 | 660.7 | - | - | - | - | - | - |
| Colleges and universities ....................................... | 822 | 1,225.6 | 1,329.0 | 1,382.2 | 1,393.4 | - | - | - | - | - | - |
| Vocational schools ............................................... | 824 | 82.1 | 82.3 | 87.8 | 88.3 | - | - | - | - | - | - |
| Social services | 83 | 2,513.8 | 2,504.7 | 2,595.9 | 2,612.7 | 2,631.5 | 2,182.6 | 2,176.2 | 2,245.9 | 2,260.5 | - |
| Individual and family services ................................. | 832 | 675.3 | 671.5 | 694.4 | 698.8 | - | 585.9 | 583.3 | 601.1 | 605.2 | - |
| Job training and related services ............................ | 833 | 351.7 | 342.2 | 364.3 | 368.7 | - | 302.8 | 293.8 | 311.8 | 316.0 | - |
| Child day care services | 835 | 569.5 | 581.9 | 589.3 | 593.6 | 596.5 | 504.3 | 517.1 | 521.9 | 526.2 | - |
| Residential care ........... | 836 | 716.8 | 707.6 | 742.0 | 745.0 | 747.8 | 622.0 | 613.9 | 643.3 | 645.2 | - |
| Social services, nec .............................................. | 839 | 200.5 | 201.5 | 205.9 | 206.6 | - | 167.5 | 168.1 | 167.8 | 167.9 | - |
| Museums and botanical and zoological gardens .......... | 84 | 89.9 | 87.6 | 86.2 | 90.5 | 94.6 | - | - | - | - | - |
| Membership organizations ...................................... | 86 | 2,248.2 | 2,236.9 | 2,248.6 | 2,253.0 | 2,264.8 | - | - | - | - | - |
| Business associations | 861 | 107.8 | 105.8 | 108.5 | 108.2 | - | - | - | - | - | - |
| Professional organizations | 862 | 59.1 | 59.0 | 60.7 | 61.1 | - | 42.6 | 42.6 | 44.0 | 44.1 | - |
| Labor organizations ............................................. | 863 | 142.3 | 145.8 | 143.1 | 142.4 | - | - | - | - | - | - |
| Civic and social associations ................................. | 864 | 443.2 | 429.4 | 439.2 | 443.3 | - | - | - | - | - | - |
| Engineering and management services ..................... | 87 | 3,004.8 | 2,973.7 | 3,175.7 | 3,200.4 | 3,197.7 | 2,295.2 | 2,272.8 | 2,428.1 | 2,450.2 | - |
| Engineering and architectural services ..................... | 871 | 869.1 | 853.7 | 895.1 | 902.1 | 913.1 | 714.0 | 699.7 | 733.9 | 740.2 | - |
| Engineering services | 8711 | 667.0 | 655.0 | 686.1 | 691.5 | - | 553.8 | 542.4 | 568.9 | 574.0 | - |
| Architectural services | 8712 | 146.1 | 143.8 | 152.5 | 153.0 | - | 114.3 | 112.3 | 119.0 | 119.2 | - |
| Surveying services ............................................. | 8713 | 56.1 | 54.9 | 56.5 | 57.6 | - | 45.9 | 45.0 | 46.0 | 47.0 | - |
| Accounting, auditing, and bookkeeping .................... | 872 | 599.5 | 612.5 | 657.7 | 661.2 | - | 421.5 | 435.5 | 472.0 | 475.2 | - |

See footnotes at end of table.

B-12. Employees on nonfarm payrolls by detailed industry-Continued
(In thousands)


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 $\$ 253.7$ million or more in 1993 and to Amtrak.

3 Excludes nonoffice commissioned real estate sales agents.
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.
$\mathrm{P}=$ preliminary.
NOTE: Data have been revised to reflect March 1997 benchmarks. See the article in this issue for additional information.

B-13. Women employees on nonfarm payrolls by major industry and manufacturing group
(In thousands)

| Industry | Avg. | Mar. | Jan. | Feb. | Mar. |
| ---: | ---: | ---: | ---: | ---: | ---: |
|  | 1997 | 1997 |  |  |  |
|  |  |  |  |  |  |

NOTE: Data have been revised to reflect March 1997 benchmarks. See the article in this issue for additional information.

B-14. Employees on nonfarm payrolls in States and selected areas by major industry
(In thousands)

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { March } \\ & 1998 \end{aligned}$ | April 1998P | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{gathered} \text { ApriA } \\ 1998 \text { p } \end{gathered}$ | April $1997$ | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | April 1998P |
| Alabema | 1,862.1 | 1,877.7 | 1,881.6 | 10.4 | 9.8 | 9.9 | 97.1 | 96.0 | 98.8 |
| Birmingham | 461.5 | 468.4 | 470.3 | 3.2 | 3.0 | 3.0 | 26.9 | 28.1 | 28.7 |
| Huntsvilie ... | 171.3 | 175.3 | 175.5 | $\binom{1}{1}$ | $(1)$ | (1) | 6.1 | 5.6 | 6.3 |
| Mobile | 219.7 | 223.3 | 223.7 | (1) | (1) | $(1)$ | 16.6 | 16.9 | 16.9 |
| Montgomery ............................................................................................................... | 156.4 | 156.4 | 157.5 | (') | (1) | (1) | 8.4 | 7.7 | 8.2 |
| Tuscaloosa ........................................................................................................ | 78.4 | 81.3 | 81.6 | 2.7 | 27 | 2.7 | 5.7 | 5.7 | 5.9 |
| Alaska | 261.5 | 263.0 | 266.8 | 9.5 | 10.3 | 10.2 | 10.7 | 9.7 | 10.8 |
| Anchorage | 121.1 | 123.1 | 124.6 | 2.4 | 2.7 | 2.7 | 5.5 | 5.2 | 5.6 |
| Arizona ..................................................................... | 1,971.7 | 2,063.2 | 2,062.9 | 13.3 | 13.4 | 13.5 | 127.9 | 132.2 | 132.6 |
| Phoenix-Mesa ......................................................... | 1,374.5 | 1,453.4 | 1,456.8 | 5.8 | 6.0 | 6.0 | 92.1 | 95.8 | 96.4 |
| Tucson | 315.7 | 324.1 | 321.9 | 2.3 | 23 | 2.3 | 18.7 | 20.5 | 20.5 |
| Arkenses | 1,101.5 | 1,115.2 | 1,123.3 | ${ }^{1} 3.5$ | ${ }^{1} 3.5$ | 3.6 | 46.9 | 46.1 | 48.2 |
| Fayettevilt-Springdale-Rogers ................................... | 137.8 | 138.7 | 139.5 | (1) | (1) | ( ${ }^{1}$ ) | 5.7 | 5.3 | 5.4 |
| Fort Smith | 95.2 | 95.6 | 96.5 | (1). 9 | (1). 9 | (1). 9 | 3.9 | 4.1 | 4.1 |
| Little Rock-North Littie Rock ........................................ | 301.2 | 306.6 | 307.7 | (1) | $\binom{1}{1}$ | $\left(\begin{array}{l}1 \\ 1\end{array}\right.$ | 14.1 | 14.0 | 14.6 |
| Pine Blut | 35.6 | 35.7 | 35.7 | ( ${ }^{1}$ | $\left({ }^{1}\right)$ | (') | . 9 | 1.0 | 1.0 |
| Calltomia | 13,056.1 | 13,454.6 | 13,492.1 | 29.2 | 28.8 | 28.5 | 531.2 | 574.0 | 579.8 |
| Bakersfield | 179.0 | 181.4 | 182.0 | 10.6 | 10.8 | 10.8 | 8.3 | 7.9 | 7.8 |
| Fresno | 273.0 | 275.2 | 276.3 | . 6 | . 5 | . 5 | 13.1 | 13.9 | 13.9 |
| Los Angeles-Long Beach .......................................... | 3,854.2 | 3,954.7 | 3,960.4 | ${ }^{5} 5.7$ | ${ }^{2} 5.6$ | ${ }^{2} 5.6$ | 107.9 | 111.6 | 111.8 |
| Modesto | 129.9 | 133.4 | 133.9 | $\left(^{2}\right)$ | $\left(^{2}\right)$ | $\left({ }^{2}\right)$ | 6.5 | 6.9 | 7.2 |
| Oakland | 944.8 | 966.8 | 968.7 | 2.2 | 2.3 | 2.3 | 48.5 | 51.2 | 51.8 |
| Orange County | 1,219.2 | 1,266.0 | 1,269.9 | . 9 | . 9 | . 9 | 55.8 | 61.4 | 61.9 |
| Riverside-San Bernardino | 840.8 | 875.4 | 877.6 | 1.2 | 1.1 | 1.1 | 49.7 | 54.9 | 55.8 |
| Sacramento | 619.7 | 634.6 | 636.4 | . 2 | . 2 | . 2 | 31.4 | 33.0 | 33.5 |
| Salinas | 116.2 | 118.1 | 118.0 | . 1 | . 1 | . 1 | 4.2 | 4.7 | 4.7 |
| San Diego | 1,042.4 | 1,071.6 | 1,074.5 | 4 | 4 | . 4 | 50.7 | 53.7 | 53.5 |
| San Francisco | 980.4 | 994.4 | 994.8 | . 6 | . 5 | . 5 | 34.1 | 36.2 | 36.7 |
| San Jose | 916.7 | 952.9 | 955.4 | . 1 | . 1 | . 1 | 35.6 | 40.2 | 40.8 |
| Santa Barbara-Santa Maria-Lompoc ............................ | 150.8 | 151.6 | 152.7 | 1.1 | 1.0 | 1.0 | 6.4 | 6.2 | 6.4 |
| Santa Rosa ............................................................. | 163.9 | 169.0 | 169.7 | . 5 | . 4 | . 4 | 8.9 | 8.7 | 9.1 |
| Stockton-Lodi ......... | 164.0 | 166.9 | 167.1 | . 1 | . 1 | . 1 | 7.2 | 7.3 | 7.4 |
| Vallejo-Fairield-Napa | 147.4 | 154.2 | 154.9 | . 5 | . 5 | . 5 | 9.6 | 10.6 | 10.6 |
| Ventura .................... | 243.8 | 248.5 | 248.5 | 1.7 | 1.5 | 1.5 | 10.9 | 10.6 | 10.9 |
| Colorado | 1,956.7 | 2,021.2 | 2,022.3 | 13.5 | 14.0 | 13.9 | 113.7 | 121.9 | 123.7 |
| Boulder-Longmont | 155.6 | 161.9 | 161.5 | (1) |  |  | 6.2 | 6.5 | 6.5 |
| Colorado Springs | 214.1 | 215.7 | 217.6 10760 | (1) | (1) | (1) | 12.3 | 12.5 | 12.8 |
| Denver | 1,042.0 | 1,071.9 | 1,076.0 | 6.8 | 6.6 | 6.6 | 59.6 | 63.9 | 64.7 |
| Connacticut | 1,603.7 | 1,624.1 | $1,636.6$ | (2). 7 | ${ }^{2}{ }^{7}$ | (2) 8 | 54.4 | 53.6 | 56.9 |
| Bridgeport | 1824 | 182.8 | 184.0 | $\left({ }^{2}\right)$ | $\binom{2}{1}$ | $\binom{2}{1}$ | 5.9 | 5.8 | 6.4 |
| Danbury ................................................................... | 84.6 | 86.2 | 86.8 | (1) | $(1)$ | (1) | 3.4 | 3.5 | 3.8 |
| Hartord ................................................................... | 596.9 | 598.1 | 601.0 | (1) | $\binom{1}{1}$ | (1) | 19.1 | 18.1 | 19.6 |
| New Haven-Meriden | 250.7 | 247.3 | 250.3 | (1) | $\binom{1}{1}$ | (1) | 8.7 | 8.6 | 8.8 |
| Now London-Norwich | 134.2 | 136.3 | 137.4 | (1) | $\binom{1}{1}$ | $\binom{1}{1}$ | 4.4 | 4.4 | 4.5 |
| Stamford-Nonwalk. | 200.4 | 204.3 | 206.4 | $\binom{1}{2}$ | $\binom{1}{2}$ |  | 5.6 | 5.3 | 5.5 |
| Waterbury ............................................................... | 84.7 | 87.1 | 87.1 | $(2)$ | (2) | $(2)$ | 3.1 | 3.1 | 3.5 |
| Delaware | 382.8 | 392.8 | 396.7 | . 1 | . 1 | . 1 | 21.0 | 20.9 | 21.7 |
| Dover ..................................................................... | 51.1 | 53.2 | 53.9 | . 1 | . 1 | . 1 | 2.2 | 2.2 | 2.4 |
| Wilmingtor-Newark | 298.3 | 308.8 | 311.1 | . 2 | . 2 | . 2 | 15.9 | 16.0 | 16.5 |
| District of Columbla | 613.7 | 608.6 | 609.0 | . 1 | . 1 | . 1 | 8.9 | 8.8 | 8.6 |
| Washington PMSA | 2,459.8 | 2,502.2 | 2,513.9 | 1.0 | 1.1 | 1.0 | 123.1 | 125.2 | 128.6 |
| Florida ....................................................................... | 6,407.0 | 6,667.1 | 6,672.5 | ${ }^{6.5}$ | ${ }^{2} 6.7$ | ${ }^{2} 6.8$ | 326.9 | 341.6 | 342.1 |
| Daytona Beach .......................................................................................................... | 150.1 | 155.8 | 155.0 | (2) | $\left(^{2}\right)$ | $\left({ }^{2}\right)$ | 7.6 | 7.8 | 7.8 |
| Fort Lauderdale ....................................................... | 623.4 | 648.1 | 645.7 | (2) .1 | (2) ${ }^{1}$ | 2) ${ }^{1}$ | 33.1 | 34.0 | 34.1 |
| Fort Myers-Cape Coral .............................................. | 151.6 | 156.2 | 155.0 | $\binom{2}{9}$ | $\binom{2}{2}$ |  | 12.4 | 12.8 | 12.6 |
| Gainesville | 111.6 | 115.0 | 115.2 | $\left(\begin{array}{l}2 \\ 2\end{array}\right.$ | $\binom{2}{2}$ | $\binom{2}{2}$ | 4.3 | 4.4 | 4.5 |
| Jacksonville ............................................................ | 513.9 | 535.5 | 538.7 | (2) | (2) | ${ }^{2}$ ) | 27.4 | 28.5 | 28.4 |
| Lakeland-Winter Haven ............................................. | 168.5 | 174.6 | 174.4 | ${ }^{3} 3.1$ | ${ }^{2} 3.1$ | ${ }^{2} 3.1$ | 8.6 | 8.6 | 8.6 |
| Melourne-Titusville-Palm Bay | 176.5 | 181.0 | 180.9 | $\left({ }^{2}\right)$ | ${ }^{2}$ ) | $\left.{ }^{2}\right)$ | 9.4 | 9.5 | 9.5 |
| Miami .................................. | 958.0 | 982.1 | 979.0 | (2). 3 | $\left.{ }^{2}\right)^{3}$ | ${ }^{2}{ }^{3}$ | 33.2 | 33.8 | 33.7 |
| Orlando | 787.7 | 827.2 | 829.4 | $\binom{2}{2}$ |  |  | 41.9 | 45.3 | 45.4 |
| Pensacola .............................................................. | 149.3 | 153.8 | 154.1 | (2) | $(2)$ | (2) | 10.5 | 11.0 | 10.9 |
| Sarasota-Bradenton ................................................. | 247.0 | 267.0 | 266.4 | $\binom{2}{5}$ | $\left(\begin{array}{l}2 \\ 2\end{array}\right.$ | $\left(\begin{array}{l}2 \\ 2\end{array}\right.$ | 12.2 | 12.7 | 12.7 |
| Tallahassee ............ | 147.8 | 149.9 | 150.3 | (2) | $\left.{ }^{2}\right)$ | $\left.{ }^{2}\right)$ | 6.1 | 5.7 | 6.0 |
| Tampa-St. Petersburg-Clearwater | 1,059.3 | 1,109.7 | $1,110.8$ |  |  | (2) 4 | 50.0 | 53.7 | 54.3 |
| West Palm Beach-Boca Raton | 436.4 | 459.5 | 457.3 | $\left({ }^{2}\right)$ | ${ }^{2}$ ) | $\left.{ }^{2}\right)$ | 24.0 | 25.4 | 25.3 |

See footnotes at end of table.

B-14. Employees on nonfarm payrolis in States and selected areas by major industry - Continued
(in thousands)

| State and area | Manufacturing |  |  | Transportation and public utilities |  |  | Wholesale and retail trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April 1997 | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | $\begin{gathered} \text { April } \\ 1998^{\text {p }} \end{gathered}$ | April 1997 | March 1998 | April 1998p | April 1997 | March 1998 | $\begin{gathered} \text { April } \\ \text { 1998 } \end{gathered}$ |
| Alabama | 380.1 | 377.3 | 376.3 | 91.0 | 91.3 | 91.2 | 423.4 | 428.7 | 430.4 |
| Birmingham | 51.8 | 50.7 | 50.7 | 30.1 | 30.3 | 30.3 | 110.6 | 113.3 | 114.0 |
| Huntsville ... | 38.6 | 40.0 | 39.9 | 3.7 | 3.6 | 3.4 | 34.4 | 35.0 | 35.4 |
| Mobile | 27.6 | 27.9 | 27.7 | 13.2 | 13.5 | 13.5 | 57.4 | 58.3 | 58.5 |
| Montgomery | 17.6 | 17.4 | 17.5 | 6.4 | 6.4 | 6.6 | 36.9 | 36.5 | 36.6 |
| Tuscaloosa | 11.1 | 12.3 | 12.3 | 2.4 | 2.4 | 2.6 | 18.2 | 18.2 | 18.3 |
| Alaska .................................................................. | 15.6 | 16.2 | 15.4 | 22.9 | 23.2 | 24.0 | 53.0 | 53.0 | 54.1 |
| Anchorage | 2.0 | 1.9 | 2.0 | 11.8 | 12.1 | 12.4 | 29.7 | 30.0 | 30.4 |
| Arizone | 202.9 | 214.5 | 214.5 | 95.5 | 97.3 | 97.4 | 480.0 | 500.7 | 500.6 |
| Phoenix-Mesa | 157.5 | 167.7 | 187.8 | 69.6 | 72.6 | 72.7 | 337.0 | 355.9 | 357.2 |
| Tucson .......... | 28.1 | 28.9 | 28.9 | 13.3 | 13.2 | 13.3 | 68.5 | 70.4 | 70.0 |
| Arkanses | 252.4 | 254.6 | 254.8 | 64.7 | 67.0 | 67.2 | 251.1 | 251.5 | 253.9 |
| Fayettevilie-Springdale-Mogers | 33.8 | 33.6 | 33.7 | 9.2 | 9.3 | 9.3 | 38.2 | 38.6 | 38.9 |
| Fort Smith ........................ | 27.4 | 26.5 | 27.0 | 6.5 | 8.6 | 6.6 | 20.2 | 19.9 | 19.9 |
| Little Rock-North Little Rock | 32.8 | 33.6 | 33.4 | 20.8 | 21.4 | 21.3 | 69.6 | 70.3 | 70.6 |
| Pine Bluff | 8.1 | 8.3 | - 8.3 | 1.7 | 1.8 | 1.8 | 7.5 | 7.2 | 7.2 |
| California | 1,890.1 | 1,938.3 | 1,937.0 | 653.7 | 671.5 | 673.6 | 3,011.6 | 3,080.5 | 3,085.3 |
| Bakersfield | 9.9 | 10.1 | 10.3 | 9.6 | 10.4 | 10.5 | 42.3 | 42.6 | 42.5 |
| Fresno | 29.3 | 28.5 | 28.7 | 14.1 | 14.1 | 14.1 | 66.4 | 66.6 | 66.8 |
| Los Angeles-Long Beach | 659.3 | 680.7 | 680.7 | 209.1 | 215.6 | 216.0 | 849.3 | 867.0 | 867.9 |
| Modesto ....................... | 24.8 | 25.3 | 25.2 | 5.2 | 5.5 | 5.5 | 33.1 | 34.0 | 34.1 |
| Oakland | 118.7 | 120.5 | 120.5 | 60.1 | 60.3 | 60.3 | 211.5 | 214.5 | 214.8 |
| Orange County | 219.8 | 230.5 | 231.2 | 44.6 | 46.9 | 46.9 | 304.5 | 315.9 | 316.2 |
| Riverside-San Bernardino | 103.9 | 110.3 | 110.1 | 42.1 | 44.7 | 44.9 | 216.5 | 223.7 | 224.2 |
| Sacramento | 43.6 | 47.0 | 47.1 | 24.5 | 25.4 | 25.5 | 135.1 | 136.5 | 137.8 |
| Salinas | 9.1 | 8.8 | 8.9 | 5.3 | 5.6 | 5.6 | 30.3 | 31.0 | 30.7 |
| San Diego | 120.8 | 124.3 | 124.3 | 40.9 | 41.5 | 41.6 | 238.2 | 241.1 | 242.0 |
| San Francisco | 76.0 | 76.6 | 76.0 | 78.5 | 79.7 | 79.5 | 206.3 | 204.9 | 203.7 |
| San Jose | 252.5 | 259.7 | 260.1 | 26.9 | 28.4 | 28.7 | 180.7 | 187.5 | 187.6 |
| Santa Barbara-Santa Maria-Lompoo | 16.9 | 16.8 | 17.0 | 5.3 | 5.7 | 5.9 | 35.7 | 35.1 | 35.3 |
| Santa Rosa ................................... | 24.8 | 26.1 | 25.9 | 6.0 | 6.6 | 6.6 | 40.8 | 42.1 | 42.3 |
| Stockton-Lodi | 22.4 | 22.0 | 21.9 | 10.2 | 10.5 | 10.6 | 38.9 | 39.7 | 39.4 |
| Vallejo-Fairfield-Napa ............................................... | 17.2 | 18.2 | 18.3 | 5.7 | 6.2 | 6.2 | 38.4 | 39.2 | 39.3 |
| Ventura ................................................................... | 32.3 | 34.1 | 34.0 | 9.4 | 10.0 | 10.0 | 59.9 | 59.9 | 59.7 |
| Coloredo | 200.3 | 207.2 | 207.4 | 122.5 | 121.8 | 122.8 | 473.8 | 488.7 | 486.7 |
| Boulder-Longmont | 30.9 | 33.1 | 32.9 | 3.6 | 3.9 | 3.9 11.5 | 33.9 | 34.1 | 34.1 |
| Colorado Springs . | 25.3 | 27.3 | 27.5 | 11.7 | 11.4 | 11.5 | 47.2 | 48.5 280.7 | 48.4 |
| Denver .................................................................. | 92.0 | 93.6 | 93.7 | 85.5 | 85.4 | 85.8 | 252.3 | 260.7 | 260.8 |
| Connecticut | 275.6 | 276.6 | 276.6 | 74.8 | 75.6 | 75.9 | 345.6 | 351.9 | 352.9 |
| Bridgeport | 39.8 | 39.8 | 39.9 | 7.2 | 7.0 | 7.1 | 40.8 | 40.9 | 41.1 |
| Danbury | 18.6 | 18.8 | 18.8 | 2.6 | 2.5 | 2.4 | 21.3 | 21.5 | 21.5 |
| Hartford | 92.1 | 94.0 | 94.1 | 27.3 | 27.1 | 27.2 | 122.9 | 122.4 | 122.4 |
| New Haven-Meriden | 39.6 | 39.1 | 39.3 | 15.9 | 16.0 | 16.1 | 51.6 | 52.1 | 52.0 |
| New London-Norwich | 24.7 | 24.6 | 24.4 | 6.4 | 6.4 | 6.6 | 26.7 | 26.7 | 27.0 |
| Stamford-Nonwalk | 28.5 | 27.1 | 27.3 | 10.0 | 9.9 | 10.0 | 44.6 | 45.3 | 45.5 |
| Waterbury .......... | 18.7 | 19.2 | 19.1 | 3.5 | 3.6 | 3.6 | 16.9 | 18.7 | 18.3 |
| Delaware | 57.1 | 58.6 | 58.8 | 15.6 | 15.6 | 15.7 | 83.4 | 84.0 | 84.8 |
| Dover . | 5.8 | 6.1 | 6.1 | 1.7 | 1.9 | 1.9 | 12.8 | 12.7 | 12.7 |
| Wilmington-Newark | 42.7 | 44.6 | 44.8 | 13.4 | 13.8 | 13.9 | 60.6 | 61.3 | 61.7 |
| District of Columbia | 12.5 | 12.7 | 12.7 | 17.6 | 17.1 | 17.1 | 47.6 | 48.0 | 48.2 |
| Washington PMSA ................................................... | 98.4 | 100.4 | 101.1 | 111.5 | 110.7 | 111.6 | 462.5 | 468.4 | 467.6 |
| Forlda | 490.5 | 492.3 | 491.0 | 326.2 | 338.4 | 338.0 | 1,644.3 | 1,704.9 | 1,697.3 |
| Daytona Beach | 14.1 | 14.6 | 14.6 | 4.3 | 4.4 | 4.4 | 43.1 | 44.1 | 44.1 |
| Fort Lauderdale | 40.3 | 40.5 | 40.3 | 30.9 | 31.9 | 31.6 | 177.5 | 183.2 | 182.4 |
| Fort Myers-Cape Coral | 6.6 | 6.7 | 6.7 | 6.9 | 7.1 | 7.0 | 43.2 | 45.2 | 44.4 |
| Gainesville | 5.5 | 5.5 | 5.4 | 2.3 | 26 | 2.7 | 23.3 | 24.3 | 24.2 |
| Jacksonvilte | 36.9 | 38.2 | 38.4 | 35.7 | 37.2 | 37.4 | 126.2 | 131.2 | 131.9 |
| Lakeland-Winter Haven | 21.0 | 20.7 | 20.9 | 8.8 | 9.2 | 9.0 | 47.8 | 50.4 | 50.5 |
| Melbourne-Titusville-Palm Bay .................................... | 27.0 | 28.2 | 28.2 | 5.2 | 5.6 | 5.6 | 41.1 | 42.4 | 42.2 |
| Miami | 76.0 | 73.1 | 73.0 | 82.7 | 85.1 | 84.7 | 251.3 | 260.3 | 259.4 |
| Oriando .................................................................. | 52.1 | 53.4 | 53.5 | 40.9 | 42.0 | 42.4 | 195.7 | 204.6 | 204.3 |
| Pensacola ............................................................... | 11.0 | 10.8 | 10.7 | 7.1 | 7.6 | 7.6 | 38.8 | 39.4 | 40.0 |
| Sarasota-Bradenton ................................................. | 20.5 | 21.4 | 21.4 | 5.4 | 5.4 | 5.4 | 59.5 | 62.4 | 61.3 |
| Tallahassee ............................................................ | 5.2 | 5.1 | 5.1 | 4.0 | 4.2 | 4.3 | 29.4 | 30.0 | 29.8 |
| Tampa-St. Petersburg-Clearwater ............................... | 87.7 | 87.2 | 86.7 | 48.0 | 49.4 | 49.5 | 258.1 | 265.3 | 263.6 |
| West Palm Beach-Boca Raton .................................... | 30.3 | 31.1 | 30.7 | 16.1 | 16.6 | 16.6 | 112.8 | 119.6 | 117.6 |

[^19]ESTABLISHMENT DATA
STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-14. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April <br> 1997 | March <br> 1998 | April 19gp <br> 1998 ${ }^{P}$ | April <br> 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 19998 } \end{aligned}$ | April $1997$ | March 1998 | April <br> 1998 |
| Alabama | 83.6 | 85.3 | 85.6 | 426.2 | 438.0 | 438.9 | 350.3 | 351.3 | 350.5 |
| Birmingham | 33.9 | 34.8 | 35.0 | 135.6 | 139.7 | 140.4 | 69.4 | 68.5 | 68.2 |
| Huntsville | 4.7 | 4.7 | 4.7 | 45.0 | 47.7 | 47.4 | 38.8 | 38.7 | 38.4 |
| Mobile | 9.9 | 10.0 | 10.0 | 60.1 | 61.3 | 61.8 | 34.9 | 35.4 | 35.3 |
| Montgomery | 9.2 | 9.3 | 9.3 | 40.7 | 41.8 | 41.8 | 37.2 | 37.3 | 37.5 |
| Tuscaloosa | 2.5 | 2.6 | 2.6 | 13.7 | 14.0 | 14.1 | 22.1 | 23.4 | 23.1 |
| Alaska | 11.8 | 11.9 | 12.0 | 63.1 | 64.4 | 65.3 | 74.9 | 74.3 | 75.0 |
| Anchorage | 7.1 | 7.1 | 7.1 | 34.3 | 35.4 | 35.6 | 28.3 | 28.7 | 28.8 |
| Arizona | 125.3 | 132.4 | 132.9 | 592.2 | 627.3 | 628.8 | 334.6 | 345.4 | 342.6 |
| Phoenix-Mesa | 105.6 | 113.1 | 114.0 | 430.0 | 458.1 | 459.8 | 176.9 | 184.2 | 182.9 |
| Tucson ....... | 11.7 | 12.5 | 12.4 | 98.6 | 101.3 | 100.1 | 74.5 | 75.0 | 74.4 |
| Arkansas | 43.9 | 44.5 | 44.6 | 252.4 | 259.3 | 261.8 | 186.6 | 188.7 | 189.2 |
| Fayetteville-Springdale-Rogers | 4.8 | 4.9 | 5.0 | 26.7 | 27.1 | 27.2 | 19.4 | 19.9 | 20.0 |
| Fort Sminh ............. | 3.1 | 3.0 | 3.1 | 23.3 | 24.8 | 25.1 | 9.9 | 9.8 | 9.8 |
| Little Rock-North Littie Rock ....................................... | 17.4 | 17.4 | 17.5 | 86.9 | 89.9 | 90.3 | 59.6 | 60.0 | 60.0 |
| Pine Bluff ................................................................ | 1.3 | 1.3 | 1.3 | 8.3 | 8.4 | 8.4 | 7.8 | 7.7 | 7.7 |
| Califomia | 749.4 | 773.0 | 776.1 | 4,018.2 | 4,185.1 | 4,204,9 | 2,172.7 | 2,203.4 | 2,206.9 |
| Bakersfield | 6.6 | 7.1 | 7.1 | 42.7 | 42.8 | 43.2 | 49.0 | 49.7 | 49.8 |
| Fresno | 13.6 | 13.6 | 13.5 | 69.6 | 70.9 | 71.3 | 66.3 | 67.1 | 67.5 |
| Los Angeles-Long Beach | 217.9 | 223.7 | 223.8 | 1,261.6 | 1,301.6 | 1,304.7 | 543.4 | 548.9 | 549.9 |
| Modesto | 4.4 | 4.4 | 4.4 | 31.9 | 32.3 | 32.4 | 24.0 | 25.0 | 25.1 |
| Oakland | 54.4 | 55.6 | 55.5 | 277.8 | 288.9 | 289.6 | 171.6 | 173.5 | 173.9 |
| Orange County | 90.8 | 93.9 | 94.3 | 367.6 | 377.4 | 379.5 | 135.2 | 139.1 | 139.0 |
| Riverside-San Bernardino | 30.0 | 31.3 | 31.5 | 222.9 | 233.3 | 233.4 | 174.5 | 176.1 | 176.6 |
| Sacramento ... | 40.6 | 43.1 | 43.0 | 173.3 | 177.1 | 177.5 | 171.0 | 172.3 | 171.8 |
| Salinas | 5.9 | 5.7 | 5.8 | 33.0 | 33.1 | 33.2 | 28.3 | 29.1 | 29.0 |
| San Diego | 60.2 | 62.5 | 62.3 | 335.9 | 349.7 | 351.9 | 195.3 | 198.4 | 198.5 |
| San Francisco | 101.3 | 104.3 | 104.3 | 357.6 | 369.4 | 371.2 | 126.0 | 122.8 | 122.9 |
| San Jose | 30.6 | 31.1 | 31.2 | 300.4 | 315.3 | 316.1 | 89.9 | 90.6 | 90.8 |
| Santa Barbara-Santa Maria-Lompoc | 7.3 | 7.5 | 7.5 | 46.9 | 47.4 | 47.5 | 31.2 | 31.9 | 32.1 |
| Santa Rosa | 9.3 | 9.6 | 9.6 | 47.8 | 48.9 | 49.2 | 25.8 | 26.6 | 26.6 |
| Stockton-Lodi | 8.7 | 8.8 | 8.8 | 41.2 | 42.7 | 42.9 | 35.3 | 35.8 | 36.0 |
| Vallejo-Fairtield-Napa | 6.0 | 6.3 | 6.3 | 38.9 72.5 | 41.5 | 41.8 75.1 | 31.1 | 31.7 | 31.9 |
| Ventura ................... | 12.6 | 14.0 | 13.9 | 72.5 | 74.8 | 75.1 | 44.5 | 43.6 | 43.4 |
| Coloredo | 125.4 | 131.4 | 130.8 | 588.8 | 612.2 | 613.3 | 318.7 | 324.0 | 323.9 |
| Boulder-Longmont .................................................. | 5.4 | 5.6 | 5.5 | 48.9 | 51.3 | 51.4 | 26.7 | 27.4 | 27.2 |
| Colorado Springs | 11.7 | 11.8 | 12.0 | 70.9 | 69.0 | 70.1 | 35.0 | 35.2 | 35.3 |
| Denver | 82.6 | 86.3 | 86.4 | 318.2 | 327.2 | 329.7 | 145.0 | 148.2 | 148.3 |
| Connecticut | 130.4 | 133.8 | 134.2 | 492.3 | 500.3 | 508.4 | 229.9 | 231.6 | 230.9 |
| Bridgeport | 10.2 | 10.2 | 10.2 | 57.7 | 58.1 | 58.2 | 20.8 | 21.2 | 21.1 |
| Danbury | 4.3 | 4.8 | 4.7 | 24.2 | 24.5 | 25.2 | 10.2 | 10.6 | 10.4 |
| Hartord.. | 69.0 | 68.2 | 68.4 | 170.7 | 171.3 | 172.8 | 95.8 | 97.0 | 96.5 |
| New Haven-Meriden | 13.0 | 12.9 | 12.8 | 90.4 | 87.3 | 90.0 | 31.5 | 31.3 | 31.3 |
| New London-Norwich | 3.7 | 3.7 | 3.8 | 34.0 | 34.2 | 34.8 | 34.3 | 36.3 | 36.3 |
| Stamiord-Norwalk. | 23.0 | 26.0 | 26.1 | 70.8 | 72.5 | 73.9 | 17.9 | 18.2 | 18.1 |
| Waterbury | 4.3 | 4.2 | 4.2 | 25.7 | 26.1 | 26.2 | 12.5 | 12.2 | 12.2 |
| Delaware | 46.1 | 48.9 | 49.5 | 105.5 | 110.0 | 110.9 | 54.0 | 54.7 | 55.2 |
| Dover | 2.1 | 2.5 | 2.5 | 11.5 | 12.3 | 12.4 | 15.0 | 15.5 | 15.9 |
| Wilmington-Newark ........ | 40.3 | 42.7 | 43.2 | 86.6 | 90.5 | 91.2 | 38.6 | 39.7 | 39.6 |
| District of Columbla | 28.3 | 28.5 | 28.4 | 265.1 | 268.0 | 266.9 | 233.6 | 225.4 | 227.0 |
| Washington PMSA .......... | 132.9 | 133.7 | 133.4 | 939.6 | 972.6 | 977.4 | 590.8 | 590.1 | 593.2 |
| Floride | 406.7 | 423.1 | 424.5 | 2,248.8 | 2,387.1 | 2,400.9 | 957.1 | 973.0 | 971.6 |
| Daytona Beach | 6.4 | 6.6 | 6.6 | 51.4 | 54.2 | 53.5 | 23.2 | 24.1 | 24.0 |
| Fort Lauderdale | 44.0 | 45.6 | 45.5 | 213.1 | 227.2 | 225.9 | 84.4 | 85.6 | 85.8 |
| Fort Myers-Cape Coral | 9.0 | 9.3 | 9.3 | 48.3 | 49.2 | 49.2 | 25.1 | 25.8 | 25.7 |
| Gainesville | 5.0 | 5.2 | 5.3 | 32.2 | 33.7 | 33.9 | 39.0 | 39.3 | 39.2 |
| Jacksonville | 52.7 | 53.3 | 53.2 | 167.1 | 178.1 | 180.5 | 67.5 | 68.6 | 68.5 |
| Lakeland-Winter Haven | 7.6 | 8.1 | 8.1 | 46.3 | 48.4 | 48.5 | 25.3 | 26.1 | 25.7 |
| Melbourne-Titusville-Palm Bay .... | 5.8 | 6.0 | 6.1 | 63.1 | 63.9 | 64.0 | 24.9 | 25.4 | 25.3 |
| Miami | 67.8 | 68.3 | 68.3 | 310.6 | 3229 | 322.0 | 136.1 | 138.3 | 137.6 |
| Orlando | 45.5 | 47.8 | 47.8 | 326.8 | 346.3 | 348.3 | 84.4 | 87.4 | 87.3 |
| Pensacola | 5.9 | 6.3 | 6.2 | 46.9 | 49.5 | 49.9 | 28.8 | 29.0 | 28.5 |
| Sarasota-Bradenton | 11.4 | 11.7 | 11.7 | 114.2 | 129.7 | 130.2 | 23.7 | 23.8 | 23.8 |
| Tallahassee | 5.6 | 5.8 | 5.8 | 38.4 | 39.3 | 39.6 | 58.9 | 59.6 | 59.5 |
| Tampa-St. Petersburg-Clearwater .............................. | 74.7 | 78.7 | 79.2 | 407.6 | 439.2 | 442.4 | 132.8 | 135.8 | 134.7 |
| West Palm Beach-Boca Raton | 30.3 | 31.4 | 31.3 | 168.0 | 180.0 | 180.3 | 54.9 | 55.4 | 55.5 |

[^20]B-14. Employees on nonfarm payrolis in States and selected areas by major industry - Continued
(In thousands)

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { April } \\ & 1998^{\text {P }} \end{aligned}$ | April 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998P } \end{aligned}$ | April 1997 | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ |
| Georgia | 3,578.1 | 3,697.4 | 3,712.0 | 8.1 | 8.2 | 8.2 | 166.3 | 175.6 | 177.2 |
| Albany | 59.1 | 59.2 | 59.6 | $\left({ }^{2}\right)$ | $\left(\begin{array}{l}2 \\ 1\end{array}\right.$ | $\left({ }^{2}\right)$ | 3.4 | 3.5 | 3.7 |
| Athens | 72.1 | 74.4 | 74.3 | (1) | (1) | (1) | 2.6 | 2.4 | 2.5 |
| Atlanta | 1,937.8 | 2,008.1 | 2,015.6 | 1.6 | 1.7 | 1.7 | 92.0 | 99.3 | 100.7 |
| Augusta-Aiken | 192.8 | 194.6 | 195.8 | . 4 | . 4 | . 4 | 11.2 | 10.9 | 10.9 |
| Columbus ...... | 114.8 | 116.9 | 117.1 | (1) | (1) | ( ${ }^{1}$ ) | 5.2 | 5.4 | 5.5 |
| Macon | 147.4 | 151.2 | 151.5 | (1) 1.2 | (1) 1.3 |  | 6.2 | 6.6 | 6.7 |
| Savannah | 131.6 | 133.8 | 133.9 | (1) | (1) | (1) | 7.9 | 7.4 | 7.4 |
| Hawali | 532.0 | 532.4 | 530.3 | (1) | (1) | (1) | 21.9 | 21.6 | 21.5 |
| Honolulu | 403.7 | 403.0 | 401.2 | (1) | (1) | (1) | 17.1 | 16.7 | 16.7 |
| Idaho | 501.8 | 509.0 | 511.9 | ${ }^{1}{ }^{3.1}$ | ${ }^{1} 2.9$ |  | 30.3 | 29.9 | 31.1 |
| Boise City | 191.0 | 194.5 | 195.1 | (1) | ( ${ }^{1}$ ) | ( ${ }^{1}$ ) | 13.3 | 12.0 | 12.2 |
| Illinois | 5,723.4 | 5,786.2 | 5,833.6 | 11.9 | 11.1 | 11.4 | 226.4 | 211.0 | 231.5 |
| Bloomington-Normal | 78.8 | 81.2 | 81.8 | (1) | (1) | (1) | 2.5 | 2.5 | 2.7 |
| Champaign-Ubana | 98.0 | 98.7 | 98.4 | (1) | (1) | (1) | 3.0 | 2.9 | 3.1 |
| Chicago ............ | 3,991.3 | 4,033.0 | 4,064.3 | 1.6 | ${ }^{1} 1.5$ | 1.7 | 154.4 | 143.2 | 156.8 |
| Davenport-Moline-Rock island | 176.9 | 179.1 | 181.1 | (1) | (1) | (1) | 8.8 | 8.7 | 9.3 |
| Decatur ............... | 56.7 | 56.4 | 57.1 | (1) | (1) | $(1)$ | 3.6 | 3.5 | 3.8 |
| Kankakee | 42.8 | 42.9 | 43.6 | (1) | (1) | (1) | 1.9 | 1.7 | 1.8 |
| Peoria-Pekin | 169.3 | 171.3 | 172.6 | (1) | (1) | (1) | 7.7 | 6.9 | 7.2 |
| Rockford | 176.0 | 177.7 | 178.4 | (1) | (1) | $(1)$ | 6.4 | 5.9 | 6.4 |
| Springfield .............................................................................................. | 111.7 | 112.5 | 113.5 | (1) | (1) | (1) | 4.7 | 4.4 | 4.8 |
| Indiana | 2,857.7 | 2,862.3 | 2,887.2 | 6.8 | 6.5 | 6.9 | 138.3 | 129.2 | 1397 |
| Bloomington ... | 65.6 | 65.3 | 65.7 | (1) | (1) | (1) | 3.0 | 3.2 | 3.2 |
| Elkhart-Goshon | 116.9 | 115.5 | 115.9 | (') | ( ${ }^{1}$ ) | (1) | 4.4 | 4.5 | 4.8 |
| Evansville-Henderson | 152.0 | 152.2 | 152.7 | ${ }^{1} 1.3$ |  | ${ }_{1} 1.3$ | 9.2 | 8.9 | 9.3 |
| Fort Wayne | 267.2 | 269.1 | 271.2 | (1) | (1) | (1) | 12.3 | 12.3 | 13.1 |
| Gary .......... | 264.4 | 261.6 | 267.1 | (1) | (1) | ( ${ }^{1}$ | 17.6 | 14.8 | 17.7 |
| Indianapolis | 824.5 | 841.5 | 847.1 | (1) 8 | (i) 8 | (1) 9 | 44.5 | 46.6 | 49.0 |
| Kokomo .... | 51.7 | 52.4 | 53.3 | (1) | (1) | (1) | 2.1 | 2.2 | 2.5 |
| Latayette | 92.9 | 93.9 | 94.6 | $(1)$ | (1) | $(1)$ | 3.7 | 3.4 | 3.7 |
| Muncie | 60.9 | 59.7 | 60.0 | (1) | (1) | (1) | 2.4 | 2.2 | 2.3 |
| South Bend | 133.3 | 133.8 | 134.6 | (1) | (1) | (1) | 7.5 | 6.8 | 7.4 |
| Terre Haute | 68.5 | 67.3 | 67.6 | 2 | . 3 | 2 | 3.0 | 2.6 | 3.1 |
| lowa | 1,400.9 | 1,417.2 | 1,437.1 | 2.1 | 1.9 | 2.1 | 56.9 | 52.6 | 59.5 |
| Cedar Rapids | 111.2 | 114.5 | 115.1 | (1) | (1) | (1) | 5.1 | 5.6 | 6.0 |
| Des Moines | 268.2 | 268.5 | 271.5 | (1) | (1) | (1) | 11.8 | 9.6 | 11.7 |
| Dubuque | 50.5 | 51.7 | 52.3 | (1) | (1) | $\left(\begin{array}{l}1 \\ 1\end{array}\right.$ | 1.7 | 1.6 | 1.9 |
| lowa City | 66.3 | 67.2 | 68.0 | (1) | (1) | (1) | 2.1 | 2.1 | 2.3 |
| Sioux City | 64.5 | 64.9 | 65.5 | (1) | $(1)$ | (1) | 3.2 | 3.2 | 3.6 |
| Waterloo-Cedar Falls | 71.1 | 72.5 | 73.0 | (1) | (1) | (1) | 2.6 | 2.4 | 2.7 |
| Kansas | 1,2660 | 1,293.0 | 1,306.3 | 8.3 | 8.1 | 8.2 | 57.4 | 55.6 | 58.8 |
| Lawrence | 47.7 | 48.5 | 48.6 | (1) | (1) | (1) | 2.1 | 1.9 | 2.1 |
| Topeka | 99.2 | 98.7 | 99.6 | (1) | ( ${ }^{1}$ | (1) | 4.4 | 3.9 | 4.5 |
| Wichita | 273.6 | 281.5 | 283.8 | 1.4 | 1.4 | 1.4 | 14.0 | 13.6 | 14.3 |
| Kentucky | 1,708.3 | 1,724.9 | 1.742 .9 | 23.0 | 22.4 | 22.4 | 80.0 | 80.0 | 84.3 |
| Lexington | 268.8 | 273.9 | 277.9 | . 2 | . 2 | . 2 | 12.8 | 13.2 | 13.6 |
| Louisville | 547.4 | 560.0 | 566.4 | . 6 | . 5 | 5 | 28.2 | 28.9 | 29.8 |
| Owensboro | 43.0 | 44.0 | 44.1 | . 3 | . 3 | 3 | 3.2 | 3.4 | 3.5 |
| Louisiana | 1,839.2 | 1,878.1 | 1,880.2 | 52.1 | 55.8 | 55.5 | 114.3 | 118.6 | 117.2 |
| Alexandria | 53.3 | 54.4 | 54.7 | . 1 | . 1 | . 1 | 3.2 | 3.2 | 3.4 |
| Baton Rouge | 2802 | 289.2 | 289.4 | . 8 | 1.0 | 1.0 | 30.4 | 34.2 | 33.8 |
| Houma | 72.9 | 76.7 | 77.4 | 6.9 | 7.6 | 7.6 | 3.3 | 3.8 | 3.8 |
| Latayette | 159.7 | 163.7 | 164.3 | 14.5 | 15.7 | 15.7 | 8.5 | 9.9 | 10.1 |
| Lake Charles | 85.8 | 86.8 | 87.0 | 1.2 | 1.4 | 1.4 | 10.5 | 10.4 | 10.5 |
| Monroe | 68.2 | 68.8 | 68.9 | . 2 | . 2 | 2 | 3.5 | 3.5 | 3.6 |
| New Orleans | 612.4 | 616.9 | 618.0 | 15.1 | 15.1 | 15.0 | 30.3 | 30.8 | 30.9 |
| Shreveport-Bossier City ............................................. | 168.8 | 173.9 | 174.1 | 2.5 | 26 | 2.5 | 9.2 | 9.9 | 10.0 |
| Maine .................................................................... | 537.3 | 544.0 | 549.6 | . 1 | . 1 | . 1 | 20.9 | 20.2 | 21.4 |
| Lewiston-Auburn ... | 40.5 | 40.8 | 41.0 | $\left(\begin{array}{l}2 \\ 2\end{array}\right.$ | (2) | (2) | 1.5 | 1.5 | 1.5 |
| Portland ............................................................. | 138.1 | 138.9 | 139.7 | (2) | (2) | $\left({ }^{2}\right)$ | 6.1 | 6.3 | 6.8 |

See footnotes at end of table.

B-14. Employees on nonfarm payrolls in States and selected areas by major industry - Continued
(in thousands)

| State and area | Manufacturing |  |  | Transportation and public utilitios |  |  | Wholesale and retail trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April <br> 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ | April <br> 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & 1998 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ |
| Georgia | 587.3 | 589.6 | 589.8 | 227.4 | 237.0 | 238.2 | 899.0 | 925.1 | 928.3 |
| Albany | 9.0 | 8.6 | 8.7 | 2.9 | 3.2 | 3.2 | 13.7 | 14.2 | 14.1 |
| Athens | 11.6 | 11.6 | 11.7 | 1.8 | 1.8 | 1.9 | 18.2 | 18.2 | 18.3 |
| Atlanta | 217.3 | 220.8 | 220.4 | 161.8 | 169.1 | 169.6 | 512.5 | 526.1 | 527.7 |
| Augusta-Aiken .................................................. | 41.3 | 41.8 | 41.8 | 6.5 | 6.7 | 6.7 | 42.4 | 42.3 | 43.0 |
| Columbus ....................................................... | 21.6 | 21.7 | 21.3 | 4.0 | 4.2 | 4.2 | 26.0 | 26.7 | 26.9 |
| Macon ................................................................. | 20.2 | 20.3 | 20.3 | 5.3 | 5.3 | 5.3 | 34.0 | 34.1 | 34.0 |
| Savannah ............................................................ | 17.4 | 18.3 | 18.3 | 9.7 | 9.6 | 9.6 | 32.7 | 34.0 | 34.0 |
| Hawell | 16.6 | 16.4 | 16.2 | 41.3 | 40.9 | 40.4 | 133.7 | 133.0 | 131.9 |
| Honolusiu | 12.7 | 12.6 | 12.4 | 33.4 | 32.9 | 32.5 | 99.1 | 98.2 | 97.4 |
| Idaho | 72.7 | 74.8 | 74.9 | 23.5 | 25.4 | 25.6 | 126.9 | 126.7 | 127.6 |
| Boise City ............................................................ | 34.3 | 36.4 | 36.3 | 9.3 | 9.8 | 9.7 | 45.8 | 45.4 | 46.0 |
| Illinois | 968.9 | 979.1 | 981.1 | 335.4 | 340.7 | 341.7 | 1,303.5 | 1,317.7 | 1,321.1 |
| Bloomington-Normal | 8.6 | 8.8 | 8.7 | 3.0 | 2.8 | 2.9 | 17.2 | 17.0 | 17.3 |
| Champaign-Urbana | 11.9 | 11.4 | 11.6 | 2.7 | 2.7 | 2.7 | 21.1 | 21.5 | 21.1 |
| Chicago .............. | 654.5 | 660.3 | 660.6 | 245.2 | 250.8 | 252.4 | 900.5 | 912.6 | 914.1 |
| Davenport-Moline-Rock Island | 30.3 | 31.3 | 31.7 | 9.4 | 9.7 | 9.9 | 46.7 | 46.2 | 46.6 |
| Decatur | 13.4 | 13.4 | 13.4 | 5.1 | 4.9 | 4.9 | 12.3 | 12.2 | 12.3 |
| Kankakee | 8.2 | 8.3 | 8.3 | 2.0 | 2.0 | 2.0 | 10.8 | 10.8 | 10.9 |
| Peoria-Pekin | 32.0 | 32.4 | 32.6 | 9.4 | 9.6 | 9.7 | 40.9 | 41.8 | 42.1 |
| Rockiord. | 53.1 | 53.5 | 53.5 | 9.1 | 9.3 | 9.3 | 36.6 | 37.3 | 37.4 |
| Springlield | 4.4 | 4.6 | 4.7 | 4.9 | 4.9 | 5.1 | 23.8 | 24.0 | 24.3 |
| Indiana | 675.5 | 680.1 | 679.1 | 140.5 | 140.9 | 141.5 | 674.8 | 671.4 | 676.3 |
| Bloomington | 9.8 | 10.3 | 10.2 | 1.9 | 1.8 | 1.8 | 14.6 | 15.2 | 15.2 |
| Eikhart-Goshen. | 58.3 | 58.7 | 58.8 | 3.0 | 2.7 | 2.7 | 22.0 | 21.6 | 21.7 |
| Evansville-Henderson | 32.3 | 31.2 | 31.4 | 7.1 | 7.0 | 7.0 | 38.0 | 37.8 | 37.9 |
| Fort Wayne | 74.7 | 75.6 | 75.7 | 12.9 | 12.8 | 13.1 | 63.4 | 63.7 | 64.3 |
| Gary .......... | 50.2 | 49.3 | 49.7 | 16.0 | 15.5 | 15.6 | 62.6 | 62.5 | 63.1 |
| Indianapolis | 127.2 | 128.9 | 128.7 | 50.2 | 51.6 | 51.9 | 212.1 | 215.9 | 215.9 |
| Kokomo | 21.2 | 21.1 | 21.5 | 1.2 | 1.2 | 1.2 | 10.9 | 11.0 | 11.0 |
| Lafayette | 21.9 | 22.1 | 21.9 | 2.3 | 2.2 | 2.2 | 19.0 | 18.9 | 19.0 |
| Muncie | 11.0 | 9.8 | 9.6 | 3.3 | 3.6 | 3.6 | 13.6 | 13.4 | 13.6 |
| South Bend | 22.2 | 22.5 | 22.8 | 5.5 | 5.6 | 5.5 | 34.0 | 33.5 | 33.7 |
| Terre Haute | 11.8 | 12.0 | 11.9 | 2.9 | 2.7 | 2.6 | 19.2 | 19.0 | 18.9 |
| Iowa | 251.0 | 256.7 | 257.4 | 65.6 | 66.8 | 67.5 | 340.9 | 341.4 | 346.9 |
| Cedar Rapids | 21.2 | 22.2 | 22.3 | 8.0 | 7.7 | 7.6 | 24.8 | 25.8 | 25.9 |
| Des Moines | 24.8 | 25.3 | 25.3 | 13.5 | 13.5 | 13.5 | 69.9 | 69.5 | 70.1 |
| Dubuque | 11.8 | 11.7 | 11.7 | 2.1 | 2.0 | 2.1 | 12.0 | 12.3 | 12.4 |
| lowa City ......................................................... | 4.8 | 4.8 | 4.8 | 2.4 | 2.2 | 2.2 | 12.7 | 12.9 | 13.0 |
| Sioux City ........................................................ | 12.8 | 13.2 | 13.3 | 3.9 | 3.7 | 3.8 | 15.9 | 15.4 | 15.4 |
| Waterbo-Cedar Falls ............................................... | 14.6 | 15.1 | 15.0 | 2.4 | 2.3 | 2.4 | 16.4 | 16.4 | 16.5 |
| Kansas | 204.5 | 210.4 | 211.4 | 72.0 | 73.1 | 73.8 | 304.6 | 313.3 | 316.3 |
| Lawrence | 5.3 | 5.3 | 5.3 | 1.2 | 1.3 | 1.3 | 11.9 | 11.7 | 11.8 |
| Topeka ...................................................... | 10.1 | 9.9 | 10.1 | 6.3 | 6.2 | 6.1 | 21.2 | 21.0 | 21.1 |
| Wichita | 67.8 | 73.0 | 73.2 | 10.9 | 10.9 | 11.1 | 61.0 | 62.3 | 62.6 |
| Kentucky ............................................................. | 314.5 | 314.4 | 314.0 | 97.0 | 98.9 | 101.1 | 405.2 | 408.9 | 413.8 |
| Lexington .................................................................................. | 45.8 | 47.1 | 47.8 | 10.6 | 10.8 | 10.9 | 59.7 | 61.5 | 62.3 |
| Louisville ............................................................... | 88.1 | 89.4 | 89.2 | 40.8 | 42.2 | 43.8 | 133.5 | 136.9 | 138.2 |
| Owensboro .......................................................... | 7.1 | 7.1 | 7.1 | 2.2 | 2.3 | 2.3 | 10.7 | 11.0 | 11.0 |
| Louisiena ............................................................... | 188.4 | 188.5 | 189.5 | 109.3 | 112.4 | 112.6 | 426.4 | 434.2 | 434.4 |
| Alexandria | 3.4 | 3.6 | 3.5 | 2.6 | 2.7 | 2.7 | 12.1 | 12.5 | 12.5 |
| Baton Rouge ......................................................... | 24.2 | 24.6 | 24.8 | 12.4 | 12.6 | 12.6 | 65.2 | 67.6 | 67.6 |
| Houma ........................................................ | 6.8 | 7.6 | 7.5 | 7.9 | 8.3 | 8.5 | 17.1 | 17.4 | 17.8 |
| Lafayette. | 16.7 | 14.5 | 14.6 | 9.5 | 10.1 | 10.2 | 41.0 | 42.2 | 42.2 |
| Lake Charles | 11.7 | 12.1 | 12.3 | 4.4 | 4.5 | 4.3 | 18.1 | 18.3 | 18.5 |
| Monroe .............................................................. | 8.0 | 8.0 | 8.0 | 3.8 | 3.6 | 3.6 | 16.8 | 17.1 | 17.1 |
| New Orleans ......................................................... | 48.1 | 49.3 | 49.2 | 41.7 | 42.4 | 42.4 | 150.2 | 149.2 | 149.3 |
| Shreveport-Bossier City ........................................... | 19.2 | 19.3 | 19.3 | 8.2 | 8.5 | 8.6 | 38.4 | 40.1 | 40.0 |
| Melne | 85.8 | 86.4 | 85.9 | 22.5 | 23.3 | 23.2 | 131.7 | 130.8 | 134.3 |
| Lewiston-Auburn ................................................. | 7.8 | 7.8 | 7.8 | 1.7 | 1.6 | 1.7 | 9.8 | 10.1 | 10.1 |
| Portland | 14.8 | 14.7 | 14.8 | 6.4 | 6.3 | 6.5 | 38.6 | 39.7 | 39.6 |

See footnotes at end of table.

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued
(In thousands)

| State and area | Finance, insuzance, and real estate |  |  | Services |  |  | Government |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { April } \\ & \text { 1998P } \end{aligned}$ | April $1997$ | March 1998 | $\begin{gathered} \text { April } \\ \text { 1998P } \end{gathered}$ | Aprit <br> 1997 | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | $\begin{gathered} \text { April } \\ \text { 1998 } \end{gathered}$ |
| Georgla | 184.3 | 193.0 | 193.7 | 926.1 | 975.9 | 983.3 | 579.6 | 593.0 | 593.3 |
| Abany | 2.1 | 2.1 | 2.1 | 15.1 | 14.9 | 15.1 | 12.9 | 12.7 | 12.7 |
| Athens | 2.2 | 2.2 | 2.2 | 15.3 | 15.2 | 15.1 | 20.4 | 23.0 | 22.6 |
| Atlanta | 125.6 | 131.6 | 132.0 | 570.0 | 599.9 | 603.6 | 257.0 | 259.6 | 259.9 |
| Augusta-Aiken | 5.9 | 6.0 | 5.9 | 45.9 | 46.6 | 47.3 | 39.2 | 39.9 | 39.8 |
| Columbus ...... | 8.1 | 8.2 | 8.3 | 29.5 | 30.3 | 30.5 | 20.4 | 20.4 | 20.4 |
| Macon . | 8.3 | 9.0 | 9.1 | 39.1 | 41.2 | 41.3 | 33.1 | 33.4 | 33.5 |
| Savannah ................................................................. | 4.3 | 4.3 | 4.3 | 38.6 | 39.2 | 39.3 | 21.0 | 21.0 | 21.0 |
| Hawell | 36.0 | 35.3 | 35.2 | 168.5 | 170.1 | 170.2 | 114.0 | 115.1 | 114.9 |
| Honolulu | 28.9 | 28.2 | 28.2 | 120.6 | 121.6 | 121.6 | 91.9 | 92.8 | 92.4 |
| Idaho | 25.0 | 26.0 | 26.1 | 119.8 | 120.0 | 120.3 | 100.5 | 103.3 | 103.3 |
| Boise City ............................................................... | 10.7 | 11.5 | 11.6 | 47.8 | 48.2 | 48.0 | 29.8 | 31.2 | 31.3 |
| Illinois | 393.4 | 405.6 | 406.8 | 1,667.8 | 1,699.9 | 1,719.1 | 816.1 | 821.1 | 820.9 |
| Bloomington-Normal | 13.6 | 14.8 | 14.9 | 19.8 | 20.3 | 20.7 | 14.1 | 15.0 | 14.6 |
| Champaign-Urbana . | 3.6 | 3.7 | 3.7 | 21.0 | 21.4 | 21.6 | 34.7 | 35.1 | 34.6 |
| Chicago ............. | 307.6 | 315.6 | 316.3 | 1,236.2 | 1,259.9 | 1,273.6 | 491.3 | 489.1 | 488.8 |
| Davenport-Moline-Rock lisland | 8.1 | 8.2 | 8.3 | 46.2 | 47.6 | 47.7 | 27.4 | 27.4 | 27.6 |
| Decatur .............................. | 2.0 | 2.0 | 2.0 | 13.6 | 13.6 | 13.7 | 6.7 | 6.8 | 7.0 |
| Kankakee | 1.6 | 1.6 | 1.7 | 11.5 | 11.4 | 11.7 | 6.8 | 7.1 | 7.2 |
| Peoria-Pekin | 7.8 | 7.9 | 8.0 | 52.0 | 53.1 | 53.5 | 19.5 | 19.6 | 19.5 |
| Rockiord | 7.4 | 7.6 | 7.7 | 45.5 | 46.2 | 46.0 | 17.9 | 17.9 | 18.1 |
| Springfield ......... | 7.9 | 7.9 | 7.8 | 32.2 | 32.8 | 33.0 | 33.8 | 33.9 | 33.8 |
| Indiana | 137.5 | 139.2 | 140.3 | 681.7 | 693.8 | 702.1 | 402.6 | 401.2 | 401.3 |
| Bloomington | 2.5 | 2.1 | 2.2 | 12.8 | 12.6 | 12.8 | 21.0 | 20.1 | 20.3 |
| Elkhart-Goshen | 2.9 | 3.2 | 3.2 | 18.9 | 17.9 | 17.9 | 7.4 | 6.9 | 6.8 |
| Evansville-Henderson | 7.2 | 7.4 | 7.5 | 42.0 | 43.8 | 43.9 | 14.9 | 14.8 | 14.4 |
| Fort Wayne | 14.7 | 14.6 | 14.7 | 61.9 | 62.0 | 62.3 | 27.3 | 28.1 | 28.0 |
| Gary . | 9.2 | 9.5 | 9.4 | 72.0 | 72.7 | 74.4 | 36.8 | 37.3 | 37.2 |
| Indianapolis | 61.3 | 65.2 | 65.7 | 223.2 | 228.3 | 230.8 | 105.2 | 104.2 | 104.2 |
| Kokomo | 1.5 | 1.5 | 1.5 | 7.9 | 8.6 | 8.7 | 6.9 | 6.8 | 6.9 |
| Latayette ........... | 3.8 | 4.1 | 4.2 | 17.2 | 19.2 | 19.2 | 25.0 | 24.0 | 24.4 |
| Muncie ........ | 1.8 | 1.8 | 1.9 | 15.9 | 16.7 | 16.9 | 12.9 | 12.2 | 12.1 |
| South Bend | 6.6 | 6.3 | 6.4 | 43.9 | 45.0 | 44.8 | 13.6 | 14.1 | 14.0 |
| Terre Haute | 2.3 | 2.2 | 2.2 | 16.9 | 16.3 | 16.6 | 12.2 | 12.2 | 12.1 |
| lowa | 78.3 | 80.7 | 81.0 | 366.7 | 374.4 | 379.3 | 239.4 | 242.7 | 243.4 |
| Cedar Rapids | 5.7 | 6.3 | 6.3 | 34.9 | 35.4 | 35.6 | 11.5 | 11.5 | 11.4 |
| Des Moines | 36.7 | 38.1 | 38.1 | 76.2 | 78.3 | 79.0 | 35.3 | 34.2 | 33.8 |
| Dubuque | 1.7 | 1.8 | 1.8 | 17.4 | 18.4 | 18.6 | 3.8 | 3.9 | 3.8 |
| lowa City | 1.8 | 2.0 | 2.0 | 14.1 | 14.6 | 14.7 | 28.4 | 28.6 | 29.0 |
| Sioux City | 2.5 | 2.6 | 2.6 | 18.7 | 19.1 | 19.1 | 7.5 | 7.7 | 7.7 |
| Waterloo-Cedar Falls | 3.3 | 3.3 | 3.3 | 18.8 | 19.9 | 20.0 | 13.0 | 13.1 | 13.1 |
| Kencas | 61.1 | 60.7 | 61.2 | 314.8 | 325.4 | 330.4 | 243.3 | 246.4 | 246.2 |
| Lawrence | 2.0 | 2.1 | 2.1 | 11.1 | 11.7 | 11.7 | 14.1 | 14.5 | 14.3 |
| Topeka | 6.7 | 6.8 | 6.9 | 28.1 | 28.5 | 28.8 | 22.4 | 22.4 | 22.1 |
| Wichita ...................................... | 11.0 | 11.1 | 11.1 | 73.6 | 74.7 | 75.7 | 33.9 | 34.5 | 34.4 |
| Kentucky | 68.6 | 70.4 | 70.8 | 421.1 | 431.5 | 437.6 | 298.9 | 298.4 | 298.9 |
| Lexington ............................................................... | 9.9 | 10.2 | 10.3 | 72.1 | 73.5 | 75.2 | 57.7 | 57.4 | 57.6 |
| Louisville .... | 29.0 | 29.0 | 29.3 | 158.1 | 162.5 | 165.1 | 69.1 | 70.6 | 70.5 |
| Owensboro | 1.7 | 1.8 | 1.8 | 10.6 | 10.7 | 10.8 | 7.2 | 7.4 | 7.3 |
| Louisiana ................................................................... | 85.2 | 86.7 | 86.6 | 495.7 | 511.5 | 511.8 | 367.8 | 370.4 | 372.6 |
| Alexandria | 2.3 | 2.2 | 2.3 | 16.4 | 16.7 | 16.8 | 13.2 | 13.4 | 13.4 |
| Baton Rouge | 17.3 | 17.8 | 17.8 | 72.0 | 74.0 | 74.0 | 57.9 | 57.4 | 57.8 |
| Houma | 2.3 | 2.3 | 2.3 | 15.6 | 16.1 | 16.2 | 13.0 | 13.6 | 13.7 |
| Lafayette .................................................................. | 8.0 | 6.3 | 6.2 | 40.1 | 41.0 | 41.3 | 23.4 | 24.0 | 24.0 |
| Lake Charles | 2.7 | 2.7 | 2.7 | 24.0 | 24.4 | 24.2 | 13.2 | 13.0 | 13.1 |
| Monroe ................................................................... | 4.8 | 4.9 | 4.9 | 18.0 | 18.5 | 18.4 | 13.1 | 13.0 | 13.1 |
| New Orleans | 31.6 | 31.4 | 31.3 | 189.9 | 190.8 | 191.9 | 105.5 | 107.9 | 108.0 |
| Shreveport-Bossier City ............................................. | 6.6 | 6.6 | 6.6 | 51.9 | 53.8 | 54.1 | 32.8 | 33.1 | 33.0 |
| Medne ......................................................................... | 27.8 | 30.0 | 30.0 | 152.1 | 157.2 | 159.2 | 96.4 | 96.0 | 95.5 |
| Lewiston-Auburn ....................................................... | 2.1 | 2.2 | 2.2 | 12.6 | 12.7 | 12.7 | 5.0 | 4.9 | 5.0 |
| Portland ................................................................. | 12.4 | 12.7 | 12.8 | 41.6 | 40.6 | 40.8 | 18.2 | 18.6 | 18.4 |

See footnotes at end of table.

B-14. Employees on nonfarm payrolls in States and selected areas by major industry — Continued
(In thousands)

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { March } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{gathered} \text { April } \\ 1999^{p} \end{gathered}$ | April <br> 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ |
| Marytand | 2,248.9 | 2,257.0 | 2,271.1 | 1.3 | 1.2 | 1.3 | 136.6 | 130.9 | 135.5 |
| Baltimore PMSA | 1,156.7 | 1,171.8 | 1,181.2 | 2 | . 2 | . 2 | 63.4 | 62.1 | 64.5 |
| Baltimore City | 402.0 | 405.2 | 407.8 | (1) | (1) | (1) | 12.2 | 12.2 | 12.8 |
| Suburban Maryland-D.C. | 825.0 | 837.4 | 839.9 | (1) | (') | (1) | 58.9 | 58.0 | 59.6 |
| Messachusetts | 3,085.1 | 3,154.4 | 3,185.7 | 1.3 | 1.3 | 1.4 | 93.8 | 95.7 | 103.1 |
| Barnstable-Yarmouth | 53.3 | 52.9 | 55.6 | (1) | (1) | (1) | 2.6 | 2.6 | 2.7 |
| Boston ................... | 1,892. 1 | 1.932 .4 | 1,946.6 |  | (2). 4 | (2) 5 | 53.2 | 54.8 | 58.0 |
| Brockton. | 94.4 | 96.1 | 97.1 | $\left(\begin{array}{l}2 \\ 2\end{array}\right.$ | $\left({ }^{2}\right)$ | $(2)$ | 3.0 | 3.1 | 3.2 |
| Fitchburg-Leominster | 52.3 | 53.2 | 54.0 | (2) | (2) | (2) | 1.5 | 1.5 | 1.6 |
| Lawrence | 148.6 | 150.4 | 151.6 | (2) | (2) | $(2)$ | 5.4 | 5.1 | 5.7 |
| Lowell | 114.0 | 119.4 | 120.1 | (1) | (1) | $(1)$ | 4.6 | 4.6 | 4.8 |
| New Bediord | 62.9 | 64.2 | 64.8 | ( ${ }^{2}$ ) | $\left({ }^{2}\right)$ | (2) | 2.0 | 2.0 | 2.0 |
| Pittsfield | 40.6 | 41.6 | 41.9 | 1 | . 1 | . 1 | 1.4 | 1.3 | 1.6 |
| Springtield | 250.9 | 255.1 | 258.4 | . 1 | . 1 | . 1 | 7.2 | 6.7 | 7.5 |
| Worcester | 221.1 | 224.3 | 226.2 | 2 | . 2 | 2 | 6.6 | 6.2 | 6.9 |
| Michigan | 4,416.9 | 4,469.0 | 4.502 .3 | 7.6 | 7.1 | 7.4 | 169.5 | 164.3 | 178.3 |
| Ann Arbor | 264.9 | 271.3 | 272.3 | (1) | (1) | (1) | 9.1 | 9.1 | 9.8 |
| Benton Harbor | 70.9 | 70.8 | 71.5 | (1) | (1) | (1) | 2.3 | 2.2 | 2.4 |
| Detroit | 2,065.0 | 2,1108 | 2,119.1 | (1) 8 | ${ }_{1} .9$ | $1^{1} .8$ | 73.6 | 75.0 | 78.4 |
| Flint. | 178.7 | 181.6 | 181.5 | (1) | (1) | $(1)$ | 6.3 | 6.9 | 7.0 |
| Grand Rapids-Muskegon-Holland | 545.8 | 559.2 | 563.6 | (1) | (1) | (1) | 24.5 | 22.6 | 25.3 |
| Jackson | 60.4 | 60.8 | 61.4 | (1) | (1) | $(1)$ | 2.3 | 2.1 | 2.3 |
| Kalamazoo-Battle Creek | 209.0 | 210.2 | 211.2 | (1) | (1) | $(1)$ | 7.8 | 7.6 | 8.2 |
| Lansing-East Lansing | 233.0 | 232.9 | 235.9 | (1) | (1) | (1) | 8.1 | 8.1 | 8.6 |
| Saginaw-Bay City-Midland | 177.4 | 178.1 | 180.0 | (1) | (1) | (1) | 8.7 | 8.0 | 8.3 |
| Minnesota | 2,451.6 | 2,497.1 | 2.518 .6 | 7.7 | 7.3 | 7.6 | 82.8 | 82.0 | 89.5 |
| Duluth-Superior | 107.7 | 109.5 | 110.7 | 5.0 | 4.8 | 4.9 | 3.1 | 3.3 | 3.5 |
| Minneapolis-St. Paul | 1,593.5 | 1.625 .0 | 1,634.9 | (2) | ${ }^{2}{ }^{2}$ | (2) | 53.8 | 53.6 | 57.9 |
| Rochester | 72.0 | 74.0 | 74.3 | (1) | (1) | (1) | 2.6 | 2.6 | 2.8 |
| St. Cloud. | 84.7 | 85.4 | 86.5 | (1) | (1) | (1) | 3.4 | 3.4 | 3.7 |
| Mississippi | 1.103.0 | 1.113 .8 | 1,122.4 |  |  |  | 49.5 | 50.4 | 51.8 |
| Jackson. | 219.8 | 224.7 | 226.3 | $\left(^{2}\right)$ | $\left({ }^{2}\right)$ | $\left({ }^{2}\right)$ | 11.2 | 11.5 | 11.7 |
| Misaouri | 2,637.3 | 2.641 .2 | 2,676.8 | 4.8 | 4.7 | 4.9 | 118.9 | 113.6 | 121.5 |
| Kansas City | 909.2 | 938.4 | 945.4 | (1) | $\left(\begin{array}{l}1 \\ 1\end{array}\right.$ | (1) | 44.9 | 45.7 | 48.0 |
| St. Louis.... | 1,294.0 | 1295.1 | 1,307.1 | (1) | $(1)$ | (1) | 64.7 | 62.6 | 65.7 |
| Springtield | 159.5 | 161.6 | 163.5 | (1) | (1) | (1) | 6.6 | 6.6 | 6.5 |
| Montana | 359.2 | 362.6 | 365.8 | 5.2 | 5.0 | 5.1 | 15.7 | 15.2 | 16.5 |
| Nebraska | 847.5 | 868.0 | 874.9 | 1.2 | 1.2 | 1.3 | 36.6 | 37.1 | 40.4 |
| Lincoln | 145.3 | 145.2 | 145.2 | (1) | (1) | $\binom{1}{1}$ | 6.4 | 5.9 | 6.6 |
| Omaha | 393.1 | 405.6 | 411.9 | (1) | (1) | (1) | 17.3 | 18.1 | 19.5 |
| Nevada | 878.2 | 913.2 | 917.7 | 14.6 | 13.5 | 13.6 | 79.4 | 84.6 | 86.0 |
| Las Vegas | 623.1 | 652.8 | 654.5 | 2.2 | 2.2 | 2.1 | 62.7 | 67.4 | 68.0 |
| Reno ........ | 175.6 | 179.2 | 180.7 | . 7 | 6 | . 6 | 11.6 | 12.0 | 12.7 |
| New Hampshire | 559.2 | 563.3 | 568.6 | . 4 | . 4 | . 4 | 19.7 | 19.9 | 21.4 |
| Manchester .. | 95.4 | 96.1 | 96.5 | ( ${ }^{1}$ ) | (1) | (1) | 4.1 | 4.2 | 4.6 |
| Nashua | 90.0 | 92.3 | 94.0 | (1) | (1) | (1) | 2.7 | 2.9 | 3.1 |
| Portsmouth-Hochester | 112.4 | 112.1 | 114.9 | (1) | (1) | (1) | 3.1 | 2.9 | 3.0 |
| New Jersey ................................................................ | 3,686.5 | 3.742 .9 | 3.764 .6 | 1.9 | 1.7 | 1.8 | 127.8 | 125.4 | 132.9 |
| Atlantic-Cape May | 173.7 | 172.5 | 177.1 | ( $\left.\begin{array}{l}1 \\ 1\end{array}\right)$ | (1) | $\binom{1}{1}$ | 7.5 | 6.7 | 7.0 |
| Bergen-Passaic | 633.5 | 641.6 | 646.6 | (1) | (1) | $(1)$ | 21.4 | 20.8 | 21.6 |
| Camden | 465.7 | 474.4 | 477.5 | (1) | (1) | (1) | 20.7 | 21.0 | 21.3 |
| Jersey City | 238.7 | 239.6 | 240.4 | (1) | (1) | (1) | 4.2 | 4.4 | 4.6 |
| Middlesex-Somerset-Hunterdon | 602.2 | 621.6 | 622.4 | ${ }^{1}$. 5 | (1) 5 | ${ }^{1}$. 5 | 18.7 | 18.4 | 18.9 |
| Monmouth-Ocean | 356.4 | 356.8 | 360.6 | ( ${ }^{1}$ ) | (1) | (1) | 17.4 | 16.9 | 18.3 |
| Newark | 939.5 | 956.8 | 958.5 |  |  | ${ }_{1}{ }^{1}$. 9 | 30.6 | 30.6 | 32.0 |
| Trenton | 197.8 | 198.5 | 199.0 | ( ${ }^{1}$ ) | (1) | ( ${ }^{1}$ ) | 4.4 | 4.6 | 4.7 |
| Vineland-Millville-Bridgeton | 57.4 | 58.3 | 59.4 | . 3 | . 3 | . 3 | 2.0 | 1.7 | 1.9 |
| New Mexico | 702.6 | 7112 | 714.1 | 15.6 | 15.3 | 15.5 | 41.9 | 41.0 | 42.3 |
| Albuquerque | 331.5 | 334.3 | 337.0 | (1) | (1) | (1) | 22.1 | 21.1 | 21.4 |
| Las Cruces | 50.9 | 52.1 | 52.8 | (1) | (1) | (1) | 3.1 | 3.1 | 3.2 |
| Santa Fe | 70.1 | 71.2 | 72.3 | (1) | (1) | (1) | 3.5 | 3.6 | 3.8 |

See footnotes at end of table.

B-14. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { April } \\ & 1997 \\ & \hline \end{aligned}$ | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998BP } \end{aligned}$ | April 1997 | March 1998 | $\begin{gathered} \text { April } \\ \text { 1998P } \end{gathered}$ | April <br> 1997 | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | $\begin{gathered} \text { April } \\ 1998^{p} \end{gathered}$ |
| Maryland | 175.8 | 175.9 | 175.6 | 106.9 | 105.3 | 105.0 | 527.1 | 529.2 | 531.7 |
| Baltimore PMSA | 100.4 | 100.4 | 99.9 | 58.3 | 59.0 | 59.4 | 265.2 | 268.5 | 270.3 |
| Baltimore City | 32.0 | 31.3 | 31.1 | 20.0 | 20.5 | 20.7 | 64.0 | 63.1 | 63.4 |
| Suburban Maryland-D.C. ..................................................................... | 38.0 | 39.1 | 38.9 | 33.8 | 33.4 | 33.6 | 195.0 | 194.4 | 193.9 |
| Massachusetts | 444.8 | 454.5 | 454.2 | 132.6 | 136.8 | 137.9 | 690.2 | 710.8 | 715.8 |
| Barnstable-Yarmouth | 1.9 | 2.1 | 2.1 | 2.9 | 2.8 | 2.8 | 17.2 | 17.0 | 18.3 |
| Boston | 220.7 | 225.7 | 225.3 | 81.9 | 84.3 | 84.5 | 404.6 | 415.0 | 417.0 |
| Brockton | 10.7 | 10.5 | 10.6 | 5.0 | 4.8 | 4.9 | 30.7 | 31.1 | 31.0 |
| Fitchburg-Leominster | 13.8 | 13.8 | 13.9 | 2.0 | 2.1 | 2.1 | 12.1 | 12.2 | 12.3 |
| Lawrence .................. | 38.0 | 39.1 | 38.8 | 4.9 | 5.0 | 4.9 | 33.4 | 33.8 | 33.8 |
| Lowell | 28.5 | 29.9 | 29.9 | 6.7 | 6.7 | 6.9 | 23.9 | 25.2 | 25.3 |
| Now Bedford | 13.3 | 13.7 | 13.8 | 3.4 | 3.7 | 3.7 | 15.9 | 15.7 | 15.9 |
| Pitisfield | 7.6 | 7.5 | 7.5 | 1.2 | 1.2 | 1.2 | 9.9 | 10.2 | 10.1 |
| Springfield | 38.8 | 39.2 | 39.3 | 9.7 | 10.2 | 10.3 | 57.3 | 58.0 | 58.2 |
| Worcester .......................................................................................... | 41.1 | 42.4 | 42.4 | 9.5 | 9.3 | 9.3 | 48.4 | 49.6 | 50.1 |
| Michigan | 963.3 | 973.8 | 977.0 | 171.1 | 172.2 | 172.8 | 1,021.3 | 1,032.7 | 1,037.2 |
| Ann Arbor | 51.8 | 53.4 | 53.5 | 6.3 | 6.4 | 6.5 | 52.4 | 53.7 | 53.6 |
| Benton Harbor | 20.0 | 20.0 | 20.1 | 2.9 | 2.9 | 2.9 | 15.5 | 15.5 | 15.8 |
| Detroit | 443.2 | 446.2 | 445.7 | 93.9 | 95.1 | 95.3 | 476.1 | 491.9 | 491.2 |
| Flint .................................................................. | 41.6 | 40.4 | 40.4 | 5.4 | 5.4 | 5.4 | 44.2 | 45.2 | 45.1 |
| Grand Rapids-Muskegon-Holland .................................. | 153.1 | 156.8 | 157.3 | 18.5 | 18.8 | 18.7 | 134.3 | 137.9 | 139.2 |
| Jackson. | 12.9 | 13.0 | 13.0 | 3.4 | 3.4 | 3.4 | 15.3 | 15.4 | 15.7 |
| Kalamazoo-Battle Creek | 49.1 | 49.4 | 49.5 | 6.9 | 7.1 | 7.1 | 45.6 | 45.6 | 46.1 |
| Lansing-East Lansing. | 29.9 | 29.3 | 29.8 | 6.1 | 6.0 | 6.2 | 50.3 | 51.5 | 51.9 |
| Saginaw-Bay City-Midland ....................................... | 39.5 | 39.7 | 39.9 | 7.2 | 7.2 | 7.3 | 44.2 | 44.9 | 45.3 |
| Minnesota | 427.5 | 437.6 | 438.2 | 122.7 | 125.0 | 125.5 | 588.2 | 595.1 | 599.8 |
| Duluth-Superior | 8.2 | 8.6 | 8.5 | 6.8 | 6.8 | 7.2 | 26.5 | 27.2 | 27.6 |
| Minneapolis-St. Paul | 272.1 | 274.4 | 274.3 | 87.6 | 89.1 | 89.5 | 377.9 | 385.3 | 385.9 |
| Rochester | 11.1 | 12.7 | 12.6 | 2.1 | 2.1 | 2.1 | 14.5 | 14.5 | 14.6 |
| St. Cloud. | 15.6 | 15.8 | 15.9 | 3.0 | 3.0 | 3.0 | 25.3 | 25.3 | 25.7 |
| Mississippl | 241.3 | 240.6 | 241.4 | 52.4 | 53.1 | 53.1 | 235.5 | 236.0 | 239.2 |
| Jackson. | 20.4 | 20.6 | 20.8 | 15.4 | 15.8 | 15.9 | 53.0 | 54.8 | 54.8 |
| Mlesouri | 417.6 | 421.4 | 421.0 | 164.6 | 165.3 | 166.6 | 617.8 | 618.5 | 627.8 |
| Kansas City | 104.9 | 108.0 | 108.6 | 74.0 | 78.4 | 78.6 | 221.2 | 229.0 | 229.5 |
| St. Louis .. | 195.9 | 197.0 | 197.1 | 82.7 | 82.1 | 82.6 | 302.3 | 304.4 | 306.8 |
| Springfield ............................................................. | 23.9 | 23.6 | 23.6 | 10.4 | 10.5 | 10.4 | 44.6 | 44.8 | 45.2 |
| Montana | 23.2 | 23.8 | 24.0 | 20.8 | 21.1 | 21.1 | 96.0 | 96.2 | 96.9 |
| Nebreska | 115.0 | 118.1 | 117.9 | 53.1 | 55.0 | 55.1 | 206.4 | 210.8 | 212.6 |
| Lincoln | 16.8 | 17.7 | 17.6 | 9.1 | 9.6 | 9.7 | 30.6 | 29.8 | 29.9 |
| Omaha | 39.5 | 40.1 | 40.7 | 27.8 | 28.8 | 28.8 | 93.1 | 95.4 | 96.6 |
| Novado | 40.0 | 42.2 | 42.3 | 44.7 | 46.7 | 46.8 | 175.5 | 184.1 | 184.4 |
| Las Vegas ........................................................... | 21.8 | 22.6 | 22.6 | 32.0 | 33.5 | 33.6 | 126.5 | 133.0 | 133.2 |
| Reno .............................. | 13.3 | 14.0 | 14.2 | 11.2 | 11.4 | 11.3 | 39.3 | 40.8 | 40.6 |
| Now Hempshire | 106.3 | 108.5 | 108.5 | 19.2 | 19.2 | 19.4 | 142.2 | 144.0 | 145.4 |
| Manchester | 14.0 | 13.8 | 13.8 | 5.6 | 5.9 | 5.8 | 23.1 | 23.4 | 23.4 |
| Nashua | 27.4 | 28.0 | 27.9 | 2.2 | 2.3 | 2.4 | 21.7 | 22.7 | 23.3 |
| Portsmouth-Rochester ............................................ | 19.4 | 20.1 | 20.0 | 3.9 | 4.0 | 3.9 | 28.9 | 29.0 | 29.4 |
| Now Jersey .......................................................... | 479.9 | 481.8 | 480.1 | 256.8 | 261.7 | 261.8 | 852.7 | 864.7 | 867.7 |
| Atlantic-Cape May ................................................... | 6.4 | 6.5 | 6.5 | 6.9 | 7.1 | 7.0 | 33.5 | 33.2 | 35.5 |
| Bergen-Passaic ................................................. | 106.2 | 106.0 | 105.3 | 34.7 | 36.2 | 36.6 | 172.8 | 175.6 | 176.3 |
| Camden .......... | 54.9 | 55.3 | 55.3 | 22.7 | 22.1 | 22.0 | 122.5 | 124.2 | 125.3 |
| Jersey City -........................................................... | 28.2 | 27.8 | 27.1 | 28.3 | 28.4 | 28.5 | 54.8 | 54.8 | 55.2 |
| Middlesex-Somerset-Hunterdon ............................... | 92.0 | 93.4 | 93.5 | 50.6 | 51.9 | 51.9 | 140.1 | 144.7 | 143.1 |
| Monmouth-Ocean .............................................. | 21.0 | 20.5 | 19.8 | 20.6 | 20.7 | 21.1 | 95.6 | 95.9 | 96.8 |
| Newark | 134.4 | 136.3 | 135.8 | 79.8 | 81.2 | 81.5 | 186.5 | 189.2 | 189.1 |
| Trenton | 19.9 | 19.3 | 19.3 | 7.1 | 7.3 | 7.3 | 32.1 | 32.6 | 32.6 |
| Vineland-Milville-Bridgeton ........................................ | 12.8 | 12.3 | 12.8 | 2.9 | 3.0 | 2.9 | 11.1 | 11.4 | 11.6 |
| Now Mexico ................................................................. | 45.0 | 44.9 | 44.9 | 31.9 | 32.9 | 32.9 | 165.3 | 167.1 | 168.4 |
| Albuquerque .......................................................... | 28.7 | 29.2 | 29.3 | 15.4 | 16.1 | 16.2 | 79.6 | 80.8 | 82.0 |
| Las Cruces | 2.7 | 2.6 | 2.7 | 1.8 | 1.8 | 1.8 | 10.5 | 11.0 | 11.1 |
| Santa Fe ... | 2.0 | 2.0 | 2.1 | 1.2 | 1.1 | 1.2 | 14.8 | 14.8 | 14.9 |

See footnotes at end of table.

ESTABLISHMENT DATA STATE AND AREA EMPLOYMENT
NOT SEASONALLY ADJUSTED
B-14. Employees on nonfarm payrolis in States and selected areas by major industry - Continued
(In thousands)

| State and area | Finance, insurance, and real estate |  |  | Services |  |  | Government |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April 1997 | March 1998 | $\begin{gathered} \text { April } \\ 1998^{p} \end{gathered}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{gathered} \text { April } \\ 1998^{P} \end{gathered}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{gathered} \text { April } \\ 199 \beta^{p} \end{gathered}$ |
| Maryland | 129.7 | 130.6 | 131.1 | 748.4 | 756.8 | 763.3 | 423.1 | 427.1 | 427.6 |
| Baltimore PMSA | 72.0 | 72.6 | 73.1 | 385.8 | 393.9 | 398.3 | 211.4 | 215.1 | 215.5 |
| Baltimore City | 33.5 | 33.7 | 33.7 | 152.7 | 154.9 | 156.0 | 87.6 | 89.5 | 90.1 |
| Suburban Maryland-D.C. | 49.2 | 49.2 | 49.2 | 282.9 | 290.2 | 291.6 | 167.2 | 173.1 | 173.1 |
| Massachusetts | 210.2 | 215.2 | 215.0 | 1,102.2 | 1,126.0 | 1,142.5 | 410.0 | 414.1 | 415.8 |
| Barnstable-Yarmouth | 3.2 | 3.1 | 3.2 | 18.1 | 17.9 | 19.0 | 7.4 | 7.4 | 7.5 |
| Boston | 156.3 | 160.4 | 160.2 | 745.7 | 761.9 | 770.7 | 229.3 | 229.9 | 230.4 |
| Brockton | 3.2 | 3.3 | 3.4 | 25.5 | 26.7 | 27.3 | 16.3 | 16.6 | 16.7 |
| Fitchburg-Leominster | 1.5 | 1.7 | 1.7 | 13.4 | 13.5 | 13.8 | 8.0 | 8.4 | 8.6 |
| Lawrence ................ | 4.3 | 4.2 | 4.2 | 43.3 | 44.0 | 44.8 | 19.3 | 19.2 | 19.4 |
| Lowell | 3.7 | 3.8 | 3.8 | 31.1 | 33.2 | 33.3 | 15.5 | 16.0 | 16.1 |
| New Bediord | 1.8 | 1.8 | 1.8 | 16.5 | 17.4 | 17.5 | 10.0 | 9.9 | 10.1 |
| Pittsfield | 1.8 | 1.9 | 1.9 | 13.6 | 13.9 | 14.0 | 5.0 | 5.5 | 5.5 |
| Springfield | 12.6 | 13.0 | 12.9 | 79.1 | 80.7 | 82.6 | 46.1 | 47.2 | 47.5 |
| Worcester | 15.1 | 15.0 | 14.9 | 66.2 | 66.2 | 66.8 | 34.0 | 35.4 | 35.6 |
| Michigan | 205.6 | 207.6 | 208.4 | 1,209.0 | 1,235.1 | 1,249.3 | 669.5 | 676.4 | 671.8 |
| Ann Arbor | 9.8 | 10.0 | 10.1 | 63.8 | 65.3 | 66.0 | 71.6 | 73.3 | 72.7 |
| Benton Harbor | 2.6 | 2.4 | 2.3 | 19.0 | 18.9 | 19.3 | 8.7 | 8.8 | 8.7 |
| Detroit | 112.0 | 112.8 | 113.1 | 632.9 | 653.0 | 659.9 | 232.6 | 235.8 | 234.7 |
| Flint. | 6.4 | 6.5 | 6.5 | 49.9 | 51.9 | 52.1 | 25.0 | 25.3 | 25.0 |
| Grand Rapids-Muskegon-Holland | 21.9 | 22.6 | 22.8 | 139.1 | 143.6 | 144.5 | 54.4 | 56.8 | 55.9 |
| Jackson .................................. | 1.9 | 1.9 | 1.9 | 14.4 | 14.4 | 14.8 | 10.1 | 10.6 | 10.4 |
| Kalamazoo-Battle Creek | 10.9 | 10.9 | 11.0 | 53.2 | 53.6 | 53.9 | 35.5 | 36.0 | 35.4 |
| Lansing-East Lansing ...... | 13.6 | 13.9 | 14.0 | 56.9 | 56.9 | 57.9 | 68.2 | 67.2 | 67.5 |
| Saginaw-Bay City-Midland | 6.9 | 6.8 | 6.9 | 48.3 | 48.6 | 49.6 | 22.6 | 22.8 | 22.6 |
| Minnesota | 145.3 | 149.0 | 150.2 | 690.3 | 710.8 | 717.4 | 387.1 | 390.3 | 390.4 |
| Duluth-Superior | 3.3 | 3.4 | 3.4 | 30.6 | 31.9 | 31.9 | 24.2 | 23.5 | 23.7 |
| Minneapolis-St. Paul | 113.9 | 116.0 | 116.6 | 464.6 | 477.1 | 480.7 | 223.1 | 229.1 | 229.5 |
| Rochester ............... | 2.3 | 2.3 | 2.3 | 32.2 | 32.6 | 32.8 | 7.2 | 7.2 | 7.1 |
| St. Cloud . | 3.0 | 3.1 | 3.1 | 21.1 | 21.8 | 22.0 | 13.3 | 13.0 | 13.1 |
| Mississippi | 41.5 | 41.1 | 41.4 | 256.2 | 262.9 | 265.3 | 220.9 | 223.5 | 224.2 |
| Jackson | 15.5 | 16.2 | 16.3 | 58.2 | 59.3 | 60.2 | 45.4 | 45.5 | 45.6 |
| Missouri | 153.9 | 155.6 | 156.6 | 735.2 | 734.8 | 746.4 | 424.5 | 427.3 | 432.0 |
| Kansas City | 64.0 | 66.5 | 67.2 | 266.9 | 273.3 | 275.3 | 133.3 | 137.5 | 138.2 |
| St. Louis ... | 79.7 | 80.8 | 81.5 | 406.7 | 409.1 | 415.1 | 162.0 | 159.1 | 158.3 |
| Springfield | 6.8 | 7.0 | 7.0 | 47.1 | 50.1 | 50.2 | 20.1 | 19.0 | 20.6 |
| Montana | 16.2 | 16.6 | 16.7 | 103.0 | 105.0 | 105.9 | 79.1 | 79.7 | 79.6 |
| Nebraska | 53.7 | 56.2 | 56.7 | 227.4 | 234.9 | 236.9 | 154.1 | 154.7 | 154.0 |
| Lincoln | 9.1 | 9.6 | 9.8 | 37.3 | 37.2 | 37.0 | 36.0 | 35.4 | 34.6 |
| Omaha | 33.7 | 36.3 | 36.7 | 130.6 | 134.7 | 137.6 | 51.1 | 52.2 | 52.0 |
| Nevada | 39.3 | 41.7 | 41.9 | 377.4 | 388.2 | 390.1 | 107.3 | 112.2 | 112.6 |
| Las Vegas | 29.7 | 31.4 | 31.6 | 281.8 | 292.1 | 292.5 | 66.4 | 70.6 | 70.9 |
| Reno ...................................................................... | 7.9 | 8.3 | 8.3 | 68.2 | 68.0 | 69.0 | 23.4 | 24.1 | 24.0 |
| New Hempshire ........................................................... | 29.0 | 29.3 | 29.6 | 160.8 | 161.5 | 162.5 | 81.6 | 80.5 | 81.4 |
| Manchester | 7.4 | 7.1 | 7.0 | 30.6 | 30.5 | 30.5 | 10.6 | 11.2 | 11.4 |
| Nashua | 4.4 | 4.2 | 4.4 | 23.0 | 23.5 | 24.2 | 8.6 | 8.7 | 8.7 |
| Portsmouth-Rochester ................................................ | 6.1 | 6.3 | 6.3 | 28.6 | 28.5 | 29.3 | 22.4 | 21.3 | 23.0 |
| New Jersey ................................................................ | 235.6 | 241.0 | 241.7 | 1,156.0 | 1,190.2 | 1,202.7 | 575.8 | 576.4 | 575.9 |
| Atlantic-Cape May .................................................... | 6.2 | 6.1 | 6.2 | 84.8 | 84.1 | 86.0 | 28.4 | 28.8 | 28.9 |
| Bergen-Passaic ........................................................ | 33.9 | 34.6 | 34.4 | 191.9 | 195.3 | 201.3 | 72.6 | 73.1 | 71.1 |
| Camden .................................................................. | 21.9 | 23.3 | 23.5 | 143.2 | 147.9 | 149.6 | 79.8 | 80.6 | 80.5 |
| Jersey City ............................ | 25.6 | 26.2 | 26.4 | 58.7 | 59.6 | 60.0 | 38.9 | 38.4 | 38.6 |
| Middlesex-Somerset-Hunterdon | 44.5 | 45.1 | 45.1 | 177.4 | 189.0 | 190.8 | 78.4 | 78.6 | 78.6 |
| Monmouth-Ocean ...................................................... | 17.8 | 17.5 | 17.4 | 120.3 | 121.6 | 123.1 | 63.7 | 63.7 | 64.1 |
| Newark .................................................................. | 70.9 | 72.4 | 72.1 | 292.8 | 302.9 | 303.4 | 143.8 | 143.5 | 143.7 |
| Trenton ................................................................. | 11.4 | 11.5 | 11.5 | 69.9 | 71.5 | 72.2 | 53.0 | 51.7 | 51.4 |
| Vineland-Millville-Bridgeton ........................................ | 3.0 | 2.9 | 2.9 | 12.2 | 12.5 | 12.8 | 13.1 | 14.2 | 14.2 |
| New Hexico ................................................................ | 31.3 | 31.3 | 31.4 | 192.7 | 197.3 | 197.2 | 178.9 | 181.4 | 181.5 |
| Albuquerque ............................................................ | 16.9 | 16.6 | 16.8 | 104.0 | 105.0 | 105.7 | 64.8 | 65.5 | 65.6 |
| Las Cruces .............................................................. | 1.9 | 2.0 | 2.0 | 10.8 | 11.3 | 11.5 | 20.1 | 20.3 | 20.5 |
| Santa Fe ................................................................. | 32 | 3.2 | 3.3 | 20.6 | 21.1 | 21.4 | 24.8 | 25.4 | 25.6 |

See footnotes at end of table.

B-14. Employees on nonfarm payrolls in States and selected areas by major industry - Continued
(In thousands)

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Aprii } \\ & 1997 \end{aligned}$ | March <br> 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{gathered} \text { April } \\ 1998^{p} \end{gathered}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | April 1998 ${ }^{\circ}$ |
| Now York | 7,973.4 | 8,048.5 | 8,096.2 | 4.4 | 4.0 | 4.4 | 250.3 | 242.4 | 259.3 |
| Abbany-Schenectady-Troy | 430.2 | 429.4 | 433.8 | . 5 | . 4 | 4 | 13.7 | 12.3 | 13.6 |
| Binghamton ................... | 111.8 | 113.7 | 114.1 | (1) | (1) | (1) | 3.5 | 3.1 | 3.5 |
| Butfalo-Niagara Falls | 540.0 | 537.8 | 539.8 | (1) | (1) | (1) | 18.7 | 17.0 | 18.8 |
| Dutchess County .... | 106.8 | 107.3 | 108.2 | (1) | (1) | $(1)$ | 4.1 | 3.8 | 4.0 |
| Elmira ............. | 42.5 | 42.4 | 42.4 | (1) | (1) | (1) | 1.5 | 1.3 | 1.4 |
| Glens Falls | 47.4 | 47.5 | 48.4 | (1) | (1) | $(1)$ | 1.7 | 1.6 | 1.9 |
| Nassau-Suffolk | 1,112.2 | 1,122.1 | 1,131.2 | (1) | (1) | (1) | 47.6 | 47.6 | 50.6 |
| Now York PMSA | 3,897.3 | 3,962.1 | 3,983.8 | (1) | (1) | (1) | 114.6 | 115.6 | 120.2 |
| New York City .... | 3,395.0 | 3,454.6 | 3,472.1 | (1). 3 | ${ }^{1}$. 3 | (1) 3 | 91.7 | 93.9 | 96.8 |
| Newburgh ...... | 17.9 | 118.5 | 118.6 | ( ${ }^{1}$ ) | (1) | (1) | $\begin{array}{r}4.0 \\ \hline 157\end{array}$ | 3.9 | 3.9 |
| Rochestor | 526.1 | 521.6 | 524.6 |  | (1). 4 |  | 15.7 | 13.9 | 15.0 |
| Rockland County | 99.4 | 101.9 | 102.9 | (1) | $\left(\begin{array}{l}1 \\ 1\end{array}\right.$ | (1) | 3.5 | 3.4 | 3.6 |
| Syracuse ............ | 336.2 | 332.3 | 334.8 | $\binom{1}{1}$ | (1) | (1) | 11.6 | 10.6 | 11.4 |
| Utica-Rome | 125.2 | 126.1 | 126.8 | $\binom{1}{1}$ | (1) | (1) | 2.8 | 2.6 | 3.1 |
| Westchester County ............................................... | 383.0 | 385.4 | 388.2 | (1) | (1) | (1) | 17.6 | 16.5 | 17.8 |
| North Carolina | 3,639.2 | 3,725.5 | 3,737.8 | 4.0 | 3.9 | 3.9 | 201.8 | 205.5 | 208.6 |
| Asheville | 107.6 | 108.6 | 109.7 | (1) | (1) | (1) | 5.9 | 5.6 | 5.8 |
| Chariotte-Gastonia-Rook Hill | 751.3 | 767.9 | 768.3 | (1) | (1) | $(1)$ | 45.9 | 47.1 | 47.4 |
| Greensboro-Winston-Salem-High Point | 630.5 | 637.8 | 637.4 | (1) | (1) | (1) | 30.9 | 31.5 | 31.6 |
| Raleigh-Durham-Chapel Hill ...................................... | 612.8 | 634.4 | 636.1 | (') | (1) | (1) | 33.6 | 35.3 | 35.4 |
| North Dekota | 310.3 | 314.4 | 316.6 | 3.9 | 3.9 | 3.9 | 12.6 | 12.3 | 13.8 |
| Bismarck. | 47.9 | 48.6 | 49.1 | (1) | (1) | (1) | 2.3 | 2.2 | 2.4 |
| Fargo-Moorhead | 95.1 | 97.8 | 98.2 | (1) | (1) | (1) | 4.6 | 4.5 | 4.8 |
| Grand Forks .......................................................... | 47.4 | 48.2 | 48.6 | (1) | (1) | (1) | 2.0 | 2.3 | 2.5 |
| Ohio | 5,355. 1 | 5,390.5 | 5,432.5 | 13.1 | 13.2 | 13.2 | 216.0 | 206.1 | 224.1 |
| Akron | 320.7 | 323.1 | 325.7 | . 4 | . 4 | . 5 | 12.2 | 11.8 | 12.8 |
| Canton-Massilion | 179.2 | 182.5 | 184.3 | . 5 | 5 | . 5 | 8.1 | 7.9 | 8.5 |
| Cincinnati | 838.4 | 853.8 | 862.8 | 7 | 7 | . 7 | 38.5 | 38.8 | 40.8 |
| Cleveland-Lorain-Elyria | 1,129.3 | 1,144.3 | 1,154.7 | . 8 | 9 | 8 | 42.2 | 40.3 | 44.0 |
| Columbus ...... | 807.3 | 822.7 | 829.5 | . 6 | 7 | . 7 | 33.9 | 34.7 | 36.2 |
| Dayton-Springfield | 473.3 | 476.7 | 477.1 | . 4 | . 4 | . 4 | 16.7 | 18.6 | 17.4 |
| Hamilton-Middletown | 118.0 | 117.9 | 1192 | (1) | (1) | $\binom{1}{1}$ | 6.8 | 6.7 | 7.2 |
| Lima | 76.9 | 77.9 | 78.6 | (1) | (1) | (1) | 3.6 | 3.6 | 3.8 |
| Mansfieid | 79.0 | 78.9 | 79.0 | (1) | (1) | (1) | 2.4 | 2.2 | 2.4 |
| Steubenville-Weirton | 48.3 | 50.1 | 51.0 | 4 | . 4 | .4 | 1.5 | 1.4 | 1.6 |
| Toledo | 315.5 | 316.0 | 317.3 | 2 | . 1 | . 1 | 14.5 | 13.5 | 14.6 |
| Youngstown-Warren .................................................. | 245.0 | 247.5 | 249.6 | 6 | . 5 | . 6 | 9.4 | 9.1 | 9.8 |
| Okdahoma | 1,379.7 | 1,413.1 | 1,418.8 | 31.4 | 32.2 | 31.5 | 49.4 | 51.2 | 51.7 |
| Enid | 24.6 | 25.3 | 25.4 | 1.1 | 1.3 | 1.2 | . 9 | 1.1 | 1.1 |
| Lawton | 37.4 | 37.0 | 37.2 | . 1 | . 1 | . 1 | 1.1 | 1.0 | 1.0 |
| Oklahoma City | 496.0 | 505.9 | 509.0 | 7.2 | 7.4 | 7.5 | 18.2 | 18.4 | 18.5 |
| Tulsa. | 368.5 | 381.7 | 383.6 | 7.7 | 7.6 | 7.6 | 14.2 | 15.8 | 16.3 |
| Oregon | 1,508.8 | 1,545.9 | 1,553.3 | 1.8 | 1.8 | 1.8 | 77.9 | 79.2 | 80.7 |
| Eugene-Springfield | 136.1 | 138.7 | 139.4 | 2 | . 2 | 2 | 6.8 | 7.0 | 7.1 |
| Medford-Ashland ... | 66.5 | 68.3 | 68.9 | . 1 | . 1 | . 1 | 3.2 | 3.1 | 3.3 |
| Portiand-Vancouver | 908.5 | 937.0 | 940.1 | 1.0 | 1.1 | 1.1 | 51.7 | 51.0 | 51.4 |
| Salem .................. | 129.4 | 131.0 | 132.1 | . 2 | . 3 | . 3 | 7.1 | 7.6 | 7.7 |
| Pennaylvanle .......................................................... | 5,383.4 | 5.402 .4 | 5,454.8 | 20.1 | 19.6 | 20.2 | 207.6 | 200.9 | 214.4 |
| Alientown Bethlehem-Easton | 264.0 | 265.2 | 266.0 | (1) | (1) | $\left(\begin{array}{l}1 \\ 1\end{array}\right.$ | 10.2 | 9.5 | 10.0 |
| Altoona ........................... | 57.8 | 58.1 | 58.6 | (1) | (1) | $(1)$ | 2.5 | 2.1 | 2.3 |
| Erie .................................................................... | 127.7 | 128.7 | 129.3 | (1) | (1) | (1) | 4.1 | 3.8 | 4.1 |
| Harrisburg-Lebanon-Carlisle ..................................... | 349.6 | 351.4 | 355.5 | (1) | (1) | $(1)$ | 12.4 | 11.9 | 12.9 |
| Johnstown ............................................................ | 86.5 | 87.5 | 88.9 | (1) | (1) | (1) | 4.4 | 4.0 | 4.2 |
| Lancaster | 212.8 | 215.4 | 217.9 | ${ }^{1}{ }^{4}$ | ${ }_{1} .3$ | ${ }_{1} .4$ | 12.0 | 12.1 | 12.5 |
| Philadelphia PMSA | 2,253.1 | 2,254.4 | 2,275.7 | (1) | (1) |  | 85.5 | 84.8 | 87.5 |
| Philadeiphia City . | 673.3 | 668.1 | 678.6 | (1) | (1) | (1) | 11.2 | 10.1 | 10.6 |
| Pittsburgh ............ | 1,068.5 | 1,064.6 | 1,071.6 |  |  | 4.7 | 48.8 | 45.2 | 48.2 |
| Reading | 164.4 | 165.4 | 166.8 | (1) | ( ${ }^{1}$ | (1) | 6.8 | 6.9 | 7.0 |
| Scranton--Wilkes-Barre-Hazleton .... | 273.9 | 274.1 | 276.4 | ${ }_{1} .5$ | . 3 | ${ }_{1} .3$ | 10.0 | 9.7 | 10.8 |
| Sharon. | 47.0 | 47.7 | 48.2 | (1) | (1) |  | 1.4 | 1.3 | 1.5 |
| State College | 68.1 | 68.9 | 70.5 | (1) | (1) | (1) | 2.2 | 2.1 | 2.2 |
| Williamsport | 52.9 | 53.3 | 54.3 | (1) | (') | (') | 2.1 | 2.1 | 2.3 |
| York ..................................................................... | 162.7 | 164.2 | 165.6 | . 4 | . 4 | . 4 | 8.0 | 7.9 | 8.3 |

See footnotes at end of table.

B-14. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & 1998^{P} \end{aligned}$ | April 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 19989 } \end{aligned}$ | April <br> 1997 | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | April <br> 1998p |
| New York | 915.2 | 915.7 | 915.4 | 406.7 | 408.0 | 408.8 | 1,604.5 | 1,620.2 | 1,629.7 |
| Albany-Schenectady-Troy.. | 38.5 | 38.8 | 38.8 | 17.1 | 17.0 | 17.0 | 90.0 | 90.4 | 91.2 |
| Binghamton ................... | 24.5 | 25.0 | 25.2 | 4.9 | 4.7 | 4.8 | 23.3 | 23.9 | 23.8 |
| Butfalo-Niagara Falls | 89.0 | 89.5 | 89.6 | 25.4 | 24.8 | 25.1 | 128.7 | 127.2 | 127.8 |
| Dutchess County | 17.5 | 18.2 | 18.3 | 3.6 | 3.5 | 3.5 | 19.8 | 19.9 | 20.2 |
| Elmira .............. | 9.6 | 9.7 | 9.7 | 1.5 | 1.5 | 1.5 | 10.3 | 10.2 | 10.2 |
| Glons Falls | 8.3 | 8.5 | 8.5 | 1.3 | 1.5 | 1.5 | 10.5 | 10.6 | 10.8 |
| Nassau-Suffolk | 111.8 | 112.9 | 112.2 | 52.1 | 52.6 | 52.3 | 280.4 | 284.6 | 285.2 |
| Now York PMSA | 316.0 | 314.4 | 315.7 | 231.8 | 234.5 | 234.8 | 677.2 | 693.7 | 698.1 |
| Now York City | 264.0 | 262.0 | 263.6 | 205.5 | 207.7 | 208.2 | 588.7 | 582.5 | 586.0 |
| Newburgh | 11.8 | 11.6 | 11.7 | 6.6 | 6.9 | 6.8 | 31.6 | 32.1 | 32.2 |
| Rochester | 126.7 | 123.8 | 123.5 | 16.6 | 16.7 | 16.3 | 109.3 | 109.7 | 109.7 |
| Rockland County | 12.0 | 12.4 | 12.3 | 6.2 | 6.4 | 6.4 | 21.8 | 23.3 | 24.2 |
| Syracuse ............ | 49.0 | 49.3 | 49.4 | 19.4 | 19.8 | 19.8 | 76.8 | 77.1 | 77.7 |
| Utica-Rome | 19.3 | 19.6 | 19.3 | 3.9 19.4 | 3.6 | 3.5 | 26.0 | 25.4 | 25.6 |
| Westchester County | 38.1 | 38.1 | 37.9 | 19.4 | 19.7 | 19.5 | 82.5 | 83.7 | 83.8 |
| North Carolina | 829.4 | 829.8 | 827.2 | 169.9 | 169.6 | 169.7 | 828.7 | 837.1 | 839.2 |
| Asheville | 19.9 | 19.7 | 19.5 | 4.5 | 4.6 | 4.6 | 26.3 | 26.9 | 27.1 |
| Charlotte-Gastonia-Rock Hill | 144.3 | 143.8 | 143.5 | 53.9 | 53.0 | 53.0 | 181.2 | 186.6 | 186.2 |
| Greensboro-Winston-Salem-High Point ...................... | 164.1 | 164.6 | 164.1 | 33.6 | 31.9 | 31.9 | 141.4 | 142.1 | 142.1 |
| Rateigh-Durham-Chapel Hill ....................................... | 82.4 | 85.5 | 85.2 | 26.4 | 27.6 | 27.5 | 128.6 | 132.3 | 132.5 |
| North Dakota | 22.8 | 23.6 | 23.8 | 18.1 | 18.3 | 18.3 | 79.9 | 80.1 | 80.3 |
| Bismarck. | 2.6 | 2.6 | 2.7 | 3.1 | 3.1 | 3.2 | 11.9 | 11.9 | 12.1 |
| Fargo-Moorhead ...................................................... | 7.8 | 8.2 | 8.1 | 5.3 | 5.3 | 5.3 | 26.9 | 27.5 | 27.5 |
| Grand Forks ............................................................. | 3.6 | 3.6 | 3.6 | 2.3 | 2.4 | 2.4 | 12.9 | 12.9 | 12.8 |
| Ohio | 1,087.2 | 1,093.0 | 1,093.3 | 232.8 | 232.2 | 233.8 | 1,292.2 | 1,295.2 | 1,302.7 |
| Akron | 64.5 | 64.4 | 64.1 | 14.5 | 14.6 | 14.8 | 79.3 | 80.1 | 80.7 |
| Canton-Massillon ... | 45.8 | 46.9 | 47.2 | 5.0 | 5.1 | 5.1 | 44.6 | 45.8 | 46.1 |
| Cincinnati ....... | 139.5 | 141.2 | 141.6 | 44.1 | 44.1 | 44.4 | 214.1 | 215.5 | 215.8 |
| Cleveland-Lorain-Elyria | 222.9 | 224.2 | 223.9 | 45.0 | 44.8 | 45.5 | 264.9 | 270.5 | 271.6 |
| Columbus | 92.5 | 93.8 | 94.1 | 36.2 | 35.9 | 35.7 | 209.8 | 213.3 | 214.4 |
| Dayton-Springtield | 99.6 | 100.2 | 100.0 | 20.6 | 20.8 | 21.0 | 108.5 | 110.3 | 110.2 |
| Hamilton-Middletown | 21.1 | 20.5 | 20.8 | 4.8 | 4.8 | 4.9 | 32.1 | 31.0 | 31.6 |
| Lima | 19.6 | 19.5 | 19.5 | 3.0 | 3.1 | 3.1 | 17.9 | 18.4 | 18.6 |
| Mansfield | 22.9 | 22.8 | 22.8 | 3.6 | 3.3 | 3.3 | 18.0 | 18.5 | 18.7 |
| Steubenville-Weirton | 11.4 | 13.9 | 13.9 | 2.8 | 26 | 2.6 | 10.7 | 10.2 | 10.3 |
| Toledo | 60.7 | 61.2 | 61.5 | 14.1 | 14.6 | 14.7 | 77.9 | 77.3 | 77.5 |
| Youngstown-Warren ............................................... | 59.2 | 59.2 | 59.2 | 10.4 | 10.5 | 10.6 | 61.4 | 62.1 | 62.5 |
| Oklahoma | 176.0 | 184.1 | 184.5 | 78.1 | 80.9 | 81.3 | 321.3 | 324.1 | 325.7 |
| Enid .... | 2.1 | 2.4 | 2.4 | 2.0 | 2.0 | 2.1 | 6.1 | 6.1 | 6.2 |
| Lawton | 3.7 | 3.6 | 3.6 | 1.7 | 1.7 | 1.7 | 9.1 | 8.8 | 8.9 |
| Oklahoma City | 50.2 | 55.2 | 55.7 | 24.2 | 25.1 | 25.3 | 118.3 | 119.1 | 119.8 |
| Tulsa . | 56.1 | 57.3 | 57.3 | 28.8 | 30.4 | 30.4 | 86.7 | 87.4 | 87.7 |
| Oregon | 237.7 | 242.4 | 242.9 | 74.4 | 74.3 | 74.7 | 368.7 | 378.8 | 380.9 |
| Eugene-Springfield | 20.8 | 21.3 | 21.5 | 4.5 | 4.6 | 4.6 | 33.7 | 34.6 | 35.0 |
| Medford-Ashland | 8.9 | 8.8 | 8.8 | 3.2 | 3.3 | 3.3 | 18.9 | 19.5 | 19.8 |
| Portand-Vancouver .............. | 145.3 | 150.7 | 151.0 | 52.3 | 54.1 | 54.1 | 223.3 | 232.1 | 233.0 |
| Salem .................................................................. | 16.4 | 16.9 | 16.9 | 3.4 | 3.4 | 3.5 | 27.2 | 27.7 | 28.0 |
| Pennsylvanla | 930.1 | 934.4 | 934.8 | 277.8 | 280.1 | 280.2 | 1,199.0 | 1,201.8 | 1,214.5 |
| Allentown Bethlehem-Easton .............................................. | 56.5 | 56.3 | 55.9 | 15.2 | 15.5 | 15.4 | 55.7 | 55.7 | 55.7 |
| Altoona | 10.0 | 10.0 | 9.9 | 4.3 | 4.2 | 4.2 | 15.3 | 15.8 | 16.0 |
| Erie. | 33.7 | 34.0 | 33.9 | 4.9 | 4.7 | 4.7 | 28.5 | 28.8 | 28.8 |
| Harrisburg-Lebanon-Carlislo | 45.2 | 45.1 | 45.6 | 23.1 | 23.2 | 23.5 | 77.0 | 78.3 | 79.4 |
| Johnstown | 12.7 | 12.7 | 13.0 | 5.2 | 5.1 | 5.2 | 20.0 | 20.0 | 20.4 |
| Lancaster | 57.3 | 56.4 | 56.6 | 8.4 | 8.6 | 8.6 | 52.1 | 53.1 | 54.3 |
| Philadelphia PMSA | 304.2 | 303.2 | 302.8 | 106.9 | 109.8 | 109.2 | 491.6 | 490.4 | 493.5 |
| Philadelphia City | 58.7 | 57.7 | 57.6 | 33.9 | 34.6 | 34.5 | 108.5 | 107.7 | 109.5 |
| Pittsburgh | 135.3 | 137.7 | 137.6 | 65.9 | 65.1 | 65.0 | 252.2 | 253.7 | 253.8 |
| Reading | 44.3 | 43.1 | 43.2 | 7.9 | 8.1 | 8.0 | 38.5 | 38.8 | 38.8 |
| Scranton-Wikes-Barre-Hazleton ......................... | 54.1 | 54.2 | 53.8 | 15.3 | 15.6 | 15.6 | 65.6 | 64.2 | 64.7 |
| Sharon ............................................................... | 10.5 | 11.0 | 11.1 | 2.0 | 1.9 | 2.0 | 12.1 | 12.4 | 12.4 |
| State College ............................................................ | 8.6 | 8.8 | 8.9 | 2.1 | 2.1 | 2.1 | 12.9 | 13.1 | 13.5 |
| Williamsport ..................................................... | 13.3 | 13.2 | 13.3 | 1.9 | 1.9 | 1.9 | 12.8 | 12.9 | 13.2 |
| York ............................................................................... | 47.5 | 47.7 | 47.9 | 7.5 | 7.7 | 7.6 | 38.8 | 39.8 | 40.3 |

See footnotes at end of table.

B-14. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April 1997 | March 1998 | $\begin{gathered} \text { April } \\ \text { 1998P } \end{gathered}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{gathered} \text { April } \\ 1998^{P} \end{gathered}$ | April 1997 | March 1998 | $\begin{gathered} \text { April } \\ 199 \mathrm{P}^{\text {P }} \end{gathered}$ |
| New York | 714.2 | 720.7 | 722.1 | 2,685.0 | 2,748.4 | 2,768.6 | 1,393.2 | 1,389.2 | 1,387.8 |
| Albany-Schenectady-Troy | 25.3 | 25.3 | 25.3 | 134.8 | 135.5 | 137.2 | 110.4 | 109.7 | 110.2 |
| Binghamton ................. | 3.7 | 3.7 | 3.7 | 29.8 | 30.5 | 30.6 | 22.2 | 22.7 | 22.6 |
| Buffalo-Niagara Falls | 28.8 | 29.2 | 29.6 | 162.2 | 162.0 | 162.6 | 87.0 | 88.1 | 86.4 |
| Dutchess County ..... | 4.5 | 4.5 | 4.7 | 34.3 | 34.4 | 34.5 | 22.9 | 23.1 | 23.1 |
| Elmira .............. | 1.3 | 1.2 | 1.3 | 10.9 | 10.9 | 10.8 | 7.4 | 7.6 | 7.6 |
| Glens Falls | 2.0 | 2.1 | 2.1 | 13.4 | 13.3 | 13.6 | 10.1 | 10.0 | 10.2 |
| Nassau-Suffolk | 78.9 | 79.1 | 79.6 | 358.5 | 364.3 | 368.8 | 183.1 | 180.9 | 182.4 |
| New York PMSA | 499.4 | 506.6 | 507.5 | 1.447 .9 | 1,490.3 | 1,502.9 | 610.2 | 607.0 | 604.6 |
| New York City .......................................................... | 467.3 | 473.8 | 474.6 | 1,270.0 | 1,310.3 | 1,320.5 | 527.5 | 524.1 | 522.2 |
| Newburgh | 5.4 | 5.4 | 5.5 | 30.9 | 31.0 | 31.2 | 27.7 | 27.6 | 27.5 |
| Rochester ............................................................... | 21.3 | 20.9 | 21.0 | 155.3 | 156.2 | 158.2 | 80.7 | 80.0 | 80.5 |
| Rockland County | 4.9 | 4.9 | 4.9 | 31.2 | 31.8 | 32.0 | 19.6 | 19.6 | 19.4 |
| Syracuse ........... | 17.8 | 17.7 | 17.7 | 100.0 | 96.8 | 97.5 | 61.6 | 61.1 | 61.4 |
| Utica-Rome ........................................................... | 7.7 | 7.5 | 7.5 265 | 37.6 140.5 | 39.4 | 39.7 1440 | 27.8 | 28.0 | 28.0 58.7 |
| Westchester County ................................................. | 26.0 | 26.3 | 26.5 | 140.5 | 142.0 | 144.0 | 58.8 | 58.9 | 58.7 |
| North Carolina | 164.6 | 172.2 | 172.9 | 853.7 | 899.1 | 906.4 | 587.1 | 608.3 | 609.9 |
| Asheville | 3.2 | 3.1 | 3.1 | 32.0 | 32.6 | 33.5 | 15.8 | 16.1 | 16.1 |
| Chartotte-Gastonia-Rock Hill | 53.6 | 54.5 | 54.8 | 183.4 | 189.4 | 189.1 | 89.0 | 93.5 | 94.3 |
| Greensboro-Winston-Salem--High Point | 32.7 | 33.0 | 33.0 | 159.0 | 165.8 | 165.7 | 68.8 | 68.9 | 69.0 |
| Raleigh-Durham-Chapel Hill ................... | 28.8 | 30.3 | 30.5 | 189.6 | 197.4 | 197.5 | 123.4 | 126.0 | 127.5 |
| North Dakota | 14.5 | 15.3 | 15.4 | 86.4 | 88.6 | 88.9 | 72.1 | 72.3 | 72.2 |
| Bis marck | 2.3 | 2.3 | 2.3 | 15.6 | 15.7 | 15.6 | 10.1 | 10.8 | 10.8 |
| Fargo-Moorhead | 5.8 | 6.4 | 6.4 | 29.3 | 30.3 | 30.5 | 15.4 | 15.6 | 15.6 |
| Grand Forks ....... | 1.6 | 1.5 | 1.5 | 12.4 | 12.2 | 12.2 | 12.6 | 13.3 | 13.6 |
| Ohio | 285.3 | 288.8 | 290.7 | 1,460.0 | 1,482.0 | 1,500.3 | 768.5 | 780.0 | 774.4 |
| Akron | 12.8 | 13.0 | 13.1 | 88.0 | 89.0 | 90.0 | 49.0 | 49.8 | 49.7 |
| Canton-Massillon | 5.9 | 6.1 | 6.0 | 49.5 | 50.3 | 51.1 | 19.8 | 19.9 | 19.8 |
| Cincinnati | 52.0 | 54.5 | 54.6 | 247.2 | 254.1 | 259.3 | 102.3 | 104.9 | 105.6 |
| Cleveland-Lorain-Elyria | 74.0 | 74.5 | 75.1 | 334.9 | 342.3 | 347.9 | 144.6 | 146.8 | 145.9 |
| Columbus ................ | 71.3 | 72.4 | 72.8 | 226.5 | 233.0 | 237.3 | 136.5 | 138.9 | 138.3 |
| Dayton-Springfield | 17.8 | 18.1 | 18.2 | 137.8 | 138.5 | 139.2 | 71.9 | 71.8 | 70.7 |
| Hamilton-Middletown | 6.2 | 6.4 | 6.4 | 26.0 | 26.9 | 26.9 | 21.0 | 21.6 | 21.4 |
| Lima | 2.0 | 2.1 | 2.1 | 20.4 | 20.6 | 20.9 | 10.4 | 10.6 | 10.6 |
| Mansfield | 2.8 | 2.5 | 2.5 | 18.9 | 19.0 | 18.9 | 10.4 | 10.6 | 10.4 |
| Steubenville-Weirton | 1.4 | 1.4 | 1.4 | 13.7 | 13.7 | 14.1 | 6.4 | 6.5 | 6.7 |
| Toledo ....... | 10.8 | 11.0 | 11.2 | 89.1 | 89.3 | 89.5 | 48.2 | 49.0 | 48.2 |
| Youngstown-Warren | 9.4 | 9.4 | 9.5 | 63.1 | 63.5 | 64.8 | 31.5 | 33.2 | 32.6 |
| Okdahoma | 68.9 | 70.3 | 70.8 | 375.6 | 385.1 | 389.5 | 279.0 | 285.2 | 283.8 |
| Enid | 1.0 | 1.0 | 1.0 | 7.2 | 7.2 | 7.2 | 4.2 | 4.2 | 4.2 |
| Lawton | 1.7 | 1.7 | 1.7 | 8.2 | 8.3 | 8.3 | 11.8 | 11.8 | 11.9 |
| Oklahoma City | 28.9 | 29.4 | 29.9 | 145.3 | 147.1 | 148.1 | 103.7 | 104.2 | 104.2 |
| Tulsa | 19.8 | 20.6 | 20.8 | 112.8 | 119.7 | 120.5 | 42.4 | 42.9 | 43.0 |
| Oregon .................................................................... | 94.5 | 96.0 | 96.2 | 397.9 | 411.5 | 414.8 | 255.9 | 261.9 | 261.3 |
| Eugene-Springfield .................................................... | 7.2 | 7.4 | 7.4 | 36.8 | 37.5 | 37.6 | 26.1 | 26.1 | 26.0 |
| Medford-Ashland ... | 3.1 | 3.1 | 3.1 | 18.5 250.3 | 19.4 | 19.6 | 10.6 | 11.0 | 10.9 |
| Portiand-Vancouver | 66.6 | 66.8 | 67.0 | 250.3 | 260.1 | 261.6 | 118.0 | 121.1 | 120.9 |
| Salem . | 6.7 | 6.5 | 6.5 | 31.0 | 31.3 | 31.8 | 37.4 | 37.3 | 37.4 |
| Pennsylvania | 310.3 | 316.3 | 317.6 | 1,705.2 | 1,723.9 | 1,745.8 | 733.3 | 725.4 | 727.3 |
| Allentown Bethlehem-Easton | 13.1 | 13.1 | 13.2 | 82.2 | 83.3 | 84.0 | 31.1 | 31.8 | 31.8 |
| Altoona .................................................................. | 1.9 | 1.9 | 1.9 | 15.5 | 15.8 | 16.1 | 8.3 | 8.3 | 8.2 |
| Erie | 5.4 | 5.4 | 5.5 | 35.5 | 35.8 | 36.0 | 15.6 | 16.2 | 16.3 |
| Harrisburg-Lebanon-Carlisle | 25.9 | 25.7 | 25.8 | 93.0 | 99.1 | 100.0 | 73.0 | 68.1 | 68.3 |
| Johnstown | 4.2 | 4.1 | 4.1 | 26.0 | 27.5 | 27.7 | 14.0 | 14.1 | 14.3 |
| Lancaster | 9.2 | 9.7 | 9.7 | 54.4 | 55.7 | 56.3 | 19.0 | 19.5 | 19.5 |
| Philadelphia PMSA | 155.6 | 157.9 | 159.1 | 807.5 | 808.5 | 823.4 | 301.8 | 299.8 | 300.2 |
| Philadelphia City ... | 53.0 | 53.9 | 53.6 | 285.7 | 283.6 | 291.0 | 122.3 | 120.5 | 121.8 |
| Pittsburgh .......... | 61.3 | 61.8 | 61.9 | 371.9 | 368.6 | 372.7 | 128.8 | 127.9 | 127.7 |
| Reading | 8.6 | 8.5 | 8.8 | 39.2 | 40.1 | 40.9 | 19.1 | 19.9 | 20.1 |
| Scranton--Wilkes-Barre--Hazleton | 13.8 | 14.1 | 14.2 | 79.3 | 80.6 | 81.7 | 35.3 | 35.4 | 35.3 |
| Sharon .................................................................. | 1.5 | 1.6 | 1.6 | 13.8 | 13.9 | 14.0 | 5.7 | 5.6 | 5.6 |
| State College ........................................................... | 2.0 | 2.0 | 2.0 | 13.9 | 13.9 | 14.2 | 26.4 | 26.9 | 27.6 |
| Williamsport ............................................................. | 2.1 | 2.1 | 2.2 | 14.4 | 14.9 | 15.2 | 6.3 | 6.2 | 6.2 |
| York | 5.0 | 5.1 | 5.2 | 38.8 | 39.1 | 39.3 | 16.7 | 16.5 | 16.6 |

[^21]B-14. Employees on nonfarm payrolls in States and selected areas by major industry - Continued
(In thousands)

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998P } \end{aligned}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{aligned} & \text { April } \\ & 1998^{p} \end{aligned}$ | April 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & 1998^{\circ} \end{aligned}$ |
| Rhode Island | 446.1 | 447.8 | 451.5 | 2 | . 2 | . 2 | 13.7 | 14.3 | 16.1 |
| Providence-Fall River-Warwick | 501.7 | 504.0 | 507.8 | 2 | 2 | 2 | 15.2 | 16.1 | 18.2 |
| South Cerolina | 1,715.2 | 1,769.1 | 1.786 .5 | 1.9 | 1.9 | 1.9 | 98.9 | 106.0 | 107.6 |
| Charleston-North Charleston | 219.3 | 229.2 | 231.0 | (1) | (1) | (1) | 15.6 | 17.2 | 17.5 |
| Columbia | 280.9 | 288.7 | 290.2 | (1) | (1) | (1) | 15.4 | 15.8 | 16.0 |
| Greenville-Spartanburg-Anderson | 457.6 | 468.2 | 472.0 | (1) | (1) | (1) | 29.7 | 30.8 | 30.9 |
| South Dakota | 349.6 | 351.5 | 355.0 | 2.1 | 2.0 | 1.7 | 13.4 | 13.4 | 15.0 |
| Rapid City ... | 44.7 | 44.8 | 45.7 | (1) | (1) | (1) | 2.7 | 2.7 | 3.0 |
| Sioux Falls .. | 100.8 | 104.1 | 105.7 | (1) | (1) | (1) | 4.3 | 4.1 | 4.6 |
| Tennessee | 2,577.0 | 2.611 .3 | 2,623.4 | 4.5 | 4.4 | 4.5 | 116.5 | 114.8 | 119.0 |
| Chattanooga | 222.9 | 222.7 | 223.3 | (1) | (1) | (1) | 10.5 | 10.2 | 10.4 |
| Johnson City-Kingsport-Eristol | 201.8 | 201.8 | 202.0 | (1) | (1) | (1) | 11.1 | 11.3 | 11.5 |
| Knoxville ............................. | 318.6 | 315.2 | 318.8 | ${ }^{1} .5$ | ${ }^{1} .6$ | ${ }^{1} .6$ | 15.8 | 14.9 | 15.2 |
| Memphis | 557.3 | 558.9 | 560.6 | (1) | (1) | (1) | 23.8 | 24.2 | 24.3 |
| Nashville | 625.4 | 636.3 | 639.4 | (1) | (1) | (1) | 30.7 | 31.8 | 33.1 |
| Texas | 8,528.2 | 8,796.1 | 8,843.4 | 162.6 | 167.5 | 167.6 | 448.7 | 473.7 | 475.1 |
| Abilene | 55.0 | 56.3 | 56.3 | 1.7 | 1.6 | 1.6 | 2.3 | 2.3 | 2.3 |
| Amarillo | 92.8 | 95.1 | 95.2 | 7 | . 6 | . 6 | 5.0 | 4.9 | 5.0 |
| Austin-San Marcos | 561.9 | 585.5 | 589.0 | 1.2 | 1.2 | 1.2 | 28.6 | 32.2 | 32.5 |
| Beaumont-Port Arthur | 155.1 | 159.8 | 160.1 | . 7 | . 8 | . 8 | 13.8 | 15.7 | 15.8 |
| Brazoria | 72.9 | 74.9 | 74.6 | 1.3 | (1.3 | 1.3 | 8.9 | 8.8 | 8.6 |
| Brownsville-Harlingen-San Benito | 97.1 | 100.4 | 100.2 | ( ${ }^{1}$ ) | ( ${ }^{1}$ ) | (1) | 3.4 | 3.5 | 3.4 |
| Bryan-College Station. | 69.0 | 70.2 | 70.8 | . 8 | . 9 | . 9 | 2.9 | 3.1 | 3.2 |
| Corpus Christi .... | 154.3 | 156.7 | 157.1 | 2.3 | 2.5 | 2.5 | 12.9 | 11.2 | 11.2 |
| Dallas | 1,735.3 | 1,815.2 | 1.819.9 | 11.7 | 11.5 | 11.5 | 80.7 | 84.7 | 84.8 |
| ElPaso | 241.4 | 246.7 | 248.7 | (1) | ( ${ }^{1}$ | (1) | 11.7 | 12.2 | 12.5 |
| Ft. Worth-Arlington | 6997 | 721.0 | 726.2 | 4.2 | 4.2 | 4.2 | 34.1 | 35.3 | 35.6 |
| Galveston-Texas City | 86.9 | 89.1 | 89.5 | . 7 | . 7 | . 7 | 4.5 | 4.2 | 4.1 |
| Houston | 1,866.3 | 1,950.7 | 1,957.1 | ${ }^{66.2}$ | ${ }^{69.5}$ | ${ }^{69.4}$ | 122.9 | 131.9 | 132.1 |
| Killeen-Temple | 97.1 | 99.1 | 99.8 | ( ${ }^{1}$ ) | ( ${ }^{1}$ ) | (1) | 4.0 | 4.0 | 4.1 |
| Laredo ........... | 59.6 | 61.4 | 61.7 | 3.3 | 2.5 | 2.3 | 2.0 | 2.2 | 2.3 |
| Longview-Marshall | 87.9 | 89.1 | 89.4 | 3.3 | 3.3 | 3.3 | 4.4 | 4.4 | 4.4 |
| Lubbock ........ | 112.7 | 116.1 | 116.4 | 1.1 | . 1 | . 1 | 4.2 | 4.5 | 4.6 |
| McAllen-Edinburg-Mission | 134.6 | 143.0 | 143.4 | 1.1 | 1.2 | 1.3 | 6.9 | 7.3 | 7.3 |
| Odessa Midland ..... | 102.3 | 106.0 | 106.3 | 12.8 | 13.5 | 13.3 | 5.3 | 6.1 | 6.1 |
| San Angelo | 43.5 | 43.6 | 43.3 | . 6 | . 7 | . 7 | 1.9 | 1.8 | 1.8 |
| San Antonio | 659.3 | 679.4 | 684.2 | 1.9 | 1.9 | 2.0 | 33.4 | 35.8 | 35.8 |
| Sherman-Denison. | 43.5 | 44.1 | 44.2 | (1) | (1) | (1) | 2.1 | 2.1 | 2.2 |
| Texarkana | 50.7 | 51.5 | 51.5 | (1) | (1) | (1) | 2.1 | 2.1 | 2.0 |
| Tyler | 76.4 | 78.6 | 78.8 | 1.5 | 1.6 | 1.6 | 2.8 | 2.9 | 3.0 |
| Victoria | 34.9 | 36.1 | 36.3 | 1.6 | (1) 1.7 | 1.8 | 2.4 | 2.5 | 2.5 |
| Waco | 95.0 | 96.9 | 97.5 | (1) | ( ${ }^{1}$ ) | ( ${ }^{1}$ ) | 4.4 | 4.7 | 4.7 |
| Wichita Falls | 59.8 | 60.1 | 60.7 | 1.2 | 1.1 | 1.1 | 2.4 | 2.2 | 2.3 |
| Utah | 985.3 | 1,016.6 | 1,021.6 |  | ${ }^{1} 8.3$ | 8.3 | 61.8 | 63.7 | 66.0 |
| Provo-Orem | 135.2 | 138.6 | 139.1 | (1) | ( ${ }^{1}$ ) | (1) | 8.8 | 8.3 | 8.6 |
| Salt Lake City-Ogden ............................................. | 661.5 | 684.4 | 686.6 | 3.0 | 2.9 | 2.9 | 41.5 | 43.2 | 44.5 |
| Vermont | 275.0 | 280.9 | 278.9 | . 6 | . 5 | . 5 | 11.2 | 10.4 | 11.1 |
| Barre-Montpelier ..................................... | 29.9 | 31.3 | 30.6 | (1) | (1) | (1) | 1.2 | 1.2 | 1.2 |
| Burlington ............................................. | 97.3 | 98.9 | 99.9 | (1) | (1) | (1) | 4.3 | 4.0 | 4.4 |
| Virginia | 3,204.8 | 3,283.7 | 3,309.2 | 11.2 | 11.0 | 11.0 | 181.9 | 186.4 | 191.4 |
| Bristol | 37.3 | 36.9 | 36.5 | (1) | $\left(\begin{array}{l}1 \\ \text { 1 }\end{array}\right.$ | (1) | 1.5 | 1.3 | 1.4 |
| Charlottes ville | 81.2 | 81.6 | 82.2 | (1) | (1) | (1) | 4.4 | 4.2 | 4.3 |
| Danville | 45.2 | 45.7 | 46.1 | $(1)$ | (1) | (1) | 2.3 | 2.2 | 2.3 |
| Lynchburg | 96.6 | 97.4 | 97.5 | $(1)$ | (1) | (1) | 5.8 | 5.7 | 5.8 |
| Norolk-Virginia Beach-Newport News | 659.2 | 665.8 | 670.7 | (1) | (1) | (') | 39.7 | 39.0 | 39.5 |
| Northern Virginia | 987.0 | 1,019.6 | 1,026.7 |  | . 7 | . 7 | 54.3 | 55.7 | 57.2 |
| Richmond-Petersburg | 521.9 | 536.4 | 540.6 | (1). 7 | $\left.{ }_{1}\right)^{.7}$ | ${ }^{1} 1.7$ | 32.6 | 33.8 | 34.5 |
| Roanoke ............................................................. | 140.1 | 140.7 | 140.6 | (1) | (1) | (1) | 8.2 | 8.6 | 8.7 |
| Washington | 2,486.1 | 2,541.2 | $2,567.2$ | 3.4 | 3.3 | 3.4 | 131.3 | 131.3 | 136.3 |
| Seatle-Beilevue-Everett | 1,274.9 | 1,328.7 | 1,342.2 | (1). 6 | (1). 7 | (1). 7 | 63.6 | 63.9 | 66.2 |
| Spokane ..................... | 184.0 | 187.7 | 189.4 | (') | (1) | (1) | 10.2 | 9.9 | 10.6 |
| Tacoma ................................................................ | 228.9 | 232.6 | 234.3 | . 2 | . 2 | . 2 | 12.1 | 13.0 | 13.2 |

See footnotes at end of table.

B-14. Employees on nonfarm payrolls in States and selected areas by major industry - Continued
(In thousands)

| State and area | Manutacturing |  |  | Transportation and public utilitios |  |  | Wholesate and retail trade |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{gathered} \text { April } \\ \text { 1998P } \end{gathered}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | April 1998p | April $1997$ | March 1998 | April 1998p |
| Rthode laland | 79.9 | 78.9 | 78.5 | 15.2 | 15.8 | 15.7 | 95.9 | 95.6 | 96.3 |
| Providence-Fall River-Warwick ................................................................. | 102.2 | 101.8 | 101.4 | 17.5 | 17.9 | 17.8 | 113.2 | 112.0 | 112.5 |
| South Cerolina | 361.9 | 362.3 | 362.9 | 75.0 | 76.6 | 77.1 | 407.5 | 426.6 | 435.0 |
| Charleston-North Charleston | 21.3 | 21.7 | 21.7 | 12.0 | 12.9 | 12.9 | 54.3 | 55.4 | 56.0 |
| Columbia -...................... | 25.4 | 26.2 | 26.2 | 13.0 | 12.7 | 12.8 | 64.4 | 66.9 | 67.3 |
| Greenville-Spartanburg-Anderson ............................... | 122.9 | 123.1 | 123.7 | 20.3 | 20.8 | 21.0 | 114.9 | 118.4 | 119.9 |
| South Dakota | 49.0 | 49.0 | 48.7 | 16.2 | 15.9 | 16.0 | 86.5 | 85.3 | 86.5 |
| Rapid City .. | 4.3 | 4.5 | 4.5 | 1.9 | 1.8 | 1.9 | 13.2 | 13.2 | 13.4 |
| Sioux Falls | 13.8 | 14.5 | 14.4 | 6.5 | 6.3 | 6.4 | 25.5 | 25.9 | 26.3 |
| Tennessee .............................................................. | 517.8 | 518.8 | 518.1 | 148.6 | 151.8 | 152.3 | 604.3 | 611.5 | 617.1 |
| Chattanooga ........................................................ | 43.2 | 42.8 | 42.6 | 11.8 | 12.0 | 12.0 | 52.6 | 52.5 | 52.9 |
| Johnson City-Kingspor-Bristol .............................. | 52.9 | 51.2 | 50.8 | 8.0 | 7.7 | 7.7 | 45.3 | 45.4 | 45.5 |
| Knoxville ............................. | 48.6 | 49.6 | 49.7 | 14.6 | 14.3 | 14.4 | 83.7 | 82.6 | 83.8 |
| Memphis | 63.5 | 63.1 | 63.2 | 60.7 | 62.4 | 62.8 | 139.9 | 140.5 153.3 | 140.7 |
| Nashvilie ............................................................. | 96.3 | 98.2 | 97.6 | 30.7 | 31.4 | 31.5 | 150.0 | 153.3 | 154.2 |
| Texas | 1,0721 | 1,092.2 | 1,093.6 | 506.8 | 530.8 | 534.1 | 2,018.7 | 2,069.1 | 2,081.1 |
| Abilene | 3.2 | 3.2 | 3.2 | 2.4 | 24 | 2.4 | 14.3 | 14.7 | 14.6 |
| Amarillo | 9.3 | 9.3 | 9.4 | 5.5 | 5.6 | 5.6 | 25.7 | 26.3 | 26.4 |
| Austin-San Marcos | 74.3 | 78.4 | 78.3 | 18.7 | 19.2 | 19.6 | 119.4 | 124.5 | 124.7 |
| Beaumont-Port Arthur | 24.4 | 24.8 | 24.8 | 8.1 | 7.9 | 7.9 | 35.7 | 36.1 | 36.3 |
| Brazoria | 16.4 | 16.8 | 16.7 | 2.7 | 2.9 | 2.7 | 14.3 | 14.8 | 14.9 |
| Brownsville-Haringen-San Benito .............................. | 12.2 | 12.1 | 12.0 | 4.4 | 4.5 | 4.5 | 23.6 | 24.5 | 24.4 |
| Bryan-Colloge Station .............................................. | 3.8 | 4.3 | 4.3 | 1.4 | 1.5 | 1.5 | 14.6 | 14.8 | 14.9 |
| Corpus Christi ......................................................... | 13.1 | 13.4 | 13.3 | 6.3 | 6.4 | 6.4 | 35.4 | 36.2 | 36.2 |
| Dallas ... | 242.7 | 248.5 | 248.3 | 117.6 | 125.9 | 126.6 | 422.4 | 434.8 | 437.2 |
| ElPaso | 43.2 | 40.8 | 40.7 | 13.0 | 13.9 | 14.0 | 57.1 | 57.8 | 58.5 |
| Ft. Worth-Arlington | 108.5 | 109.8 | 110.3 | 63.5 | 67.6 | 67.8 | 175.9 | 183.0 | 184.6 |
| Galveston-Texas City | 8.0 | 8.0 | 8.0 | 4.2 | 4.3 | 4.3 | 19.2 | 19.5 | 19.9 |
| Houston ........ | 206.2 | 215.6 | 215.4 | 130.9 | 137.1 | 138.2 | 426.4 | 444.7 | 445.9 |
| Killeen-Temple | 9.3 | 9.2 | 9.3 | 3.5 | 3.5 | 3.6 | 22.4 | 23.1 | 23.2 |
| Laredo | 1.4 | 1.5 | 1.5 | 9.8 | 10.8 | 10.9 | 15.9 | 16.6 | 16.6 |
| Longview-Marshall ................................................... | 18.7 | 19.1 | 19.1 | 4.0 | 4.0 | 4.0 | 21.9 | 22.4 | 22.7 |
| Lubbock .............. | 7.6 | 7.8 | 7.9 | 5.6 | 5.6 | 5.5 | 31.6 | 32.4 | 32.3 |
| McAllen-Edinburg-Mission ......................................... | 13.1 | 13.2 | 13.1 | 4.7 | 4.9 | 4.9 | 37.3 | 40.6 | 40.3 |
| Odessa Midland. | 7.4 | 7.5 | 7.5 | 4.2 | 4.2 | 4.2 | 27.2 | 27.2 | 27.5 |
| San Angelo | 5.3 | 4.7 | 4.7 | 2.3 | 2.3 | 2.3 | 10.3 | 10.2 | 10.1 |
| San Antonio | 50.0 | 49.6 | 50.1 | 30.2 | 30.9 | 31.0 | 158.7 | 162.8 | 163.5 |
| Sherman-Denison | 10.5 | 10.6 | 10.5 | 1.6 | 1.6 | 1.6 | 9.6 | 9.6 | 9.7 |
| Texarkana | 5.8 | 5.9 | 5.9 | 2.2 | 23 | 2.3 | 13.1 | 13.4 | 13.4 |
| Tyler .................................................................. | 11.3 | 10.8 | 10.9 | 3.6 | 3.9 | 4.0 | 19.3 | 20.0 | 19.9 |
| Victoria | 3.2 | 3.3 | 3.3 | 1.5 | 1.5 | 1.5 | 9.1 | 9.4 | 9.5 |
| Waco . | 16.6 | 16.3 | 16.4 | 3.7 | 3.9 | 4.0 | 21.7 | 22.2 | 22.2 |
| Wichita Falls | 8.4 | 8.5 | 8.5 | 3.0 | 2.9 | 2.9 | 13.7 | 13.5 | 13.6 |
| Utah | 131.7 | 134.6 | 134.8 | 55.9 | 57.6 | 57.8 | 233.9 | 239.7 | 240.7 |
| Provo-Orem | 19.3 | 20.4 | 20.5 | 2.3 | 2.3 | 2.3 | 30.1 | 30.4 | 30.5 |
| Salt Lake City-Ogden ............................................. | 81.3 | 83.2 | 83.0 | 43.9 | 45.9 | 46.2 | 159.5 | 163.5 | 163.9 |
| Vermont | 45.8 | 46.9 | 47.3 | 12.1 | 12.4 | 12.4 | 63.4 | 64.2 | 64.0 |
| Barre-Montpalier | 3.4 | 3.4 | 3.4 | 1.1 | 1.1 | 1.1 | 6.6 | 7.0 | 6.9 |
| Burlington ................................................................. | 17.6 | 18.5 | 18.6 | 4.6 | 4.5 | 4.5 | 21.9 | 21.8 | 21.7 |
| Virginia ................................................................. | 402.4 | 405.6 | 405.6 | 165.1 | 171.1 | 171.4 | 711.4 | 723.9 | 729.5 |
| Bristol | 9.9 | 9.4 | 8.8 | 1.3 | 1.3 | 1.3 | 10.0 | 10.1 | 10.2 |
| Charlotesville | 8.0 | 8.2 | 8.2 | 2.4 | 2.2 | 2.3 | 16.4 | 16.5 | 16.6 |
| Danville | 15.3 | 15.1 | 15.2 | 1.0 | 1.0 | 1.0 | 9.8 | 9.9 | 9.9 |
| Lynchburg | 25.2 | 25.2 | 25.1 | 3.5 | 3.6 | 3.5 | 20.4 | 20.3 | 20.3 |
| Nortolk-Virginia Beach-Newport News ........................ | 68.3 | 69.3 | 69.1 | 31.7 | 32.2 | 32.3 | 152.9 | 153.1 | 154.9 |
| Northern Virginia .................................................... | 42.4 | 44.8 | 44.7 | 59.3 | 60.3 | 60.7 | 210.9 | 213.0 | 214.3 |
| Aichmond-Petersburg ................................................ | 60.9 | 61.8 | 61.5 | 26.8 | 27.9 | 28.0 | 122.4 | 126.4 | 127.1 |
| Roanoke ............................................................... | 19.4 | 18.9 | 18.9 | 8.6 | 8.6 | 8.4 | 35.9 | 36.0 | 35.8 |
| Washington | 3624 | 373.0 | 374.7 | 132.5 | 134.9 | 136.1 | 593.8 | 606.2 | 612.5 |
| Seattle-Bellevue-Everett ........................................... | 214.1 | 225.5 | 226.7 | 77.2 | 79.1 | 79.4 | 297.7 | 306.1 | 308.3 |
| Spokane .............................................................. | 22.4 | 22.8 | 22.8 | 7.8 | 7.9 | 7.9 | 45.9 | 47.3 | 47.6 |
| Tacoma ................................................................. | 25.2 | 25.1 | 25.3 | 9.7 | 9.8 | 10.0 | 56.4 | 59.0 | 59.5 |

See footnotes at end of table

B-14. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April $1997$ | March 1998 | $\begin{aligned} & \text { Aprid } \\ & 1998^{p} \end{aligned}$ | April <br> 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ | April <br> 1997 | $\begin{aligned} & \text { March } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ |
| Rhade Island | 26.4 | 26.8 | 27.0 | 150.4 | 150.1 | 151.7 | 64.4 | 66.1 | 66.0 |
| Providence-Fall River-Warwick | 28.3 | 28.9 | 28.6 | 159.5 | 160.5 | 162.6 | 65.6 | 66.6 | 66.5 |
| South Carolina | 74.1 | 76.5 | 77.4 | 392.6 | 409.3 | 416.2 | 303.3 | 308.9 | 308.4 |
| Charieston-North Charteston | 8.3 | 8.4 | 8.5 | 59.0 | 63.1 | 64.2 | 48.8 | 50.5 | 50.2 |
| Columbia ............... | 19.9 | 20.5 | 20.6 | 69.2 | 70.8 | 71.0 | 73.6 | 75.8 | 76.3 |
| Greenville-Spartanburg-Anderson | 15.4 | 15.7 | 15.7 | 97.3 | 100.1 | 101.2 | 57.1 | 59.3 | 59.6 |
| Sourth Dakota | 20.6 | 21.6 | 21.7 | 90.2 | 92.7 | 93.7 | 71.6 | 71.6 | 71.7 |
| Rapid City ...... | 1.7 | 1.7 | 1.7 | 13.6 | 13.4 | 13.6 | 7.3 | 7.5 | 7.6 |
| Sioux Falls . | 11.3 | 12.2 | 12.2 | 29.6 | 31.0 | 31.6 | 9.8 | 10.1 | 10.2 |
| Tennessee | 119.2 | 122.7 | 122.7 | 678.8 | 694.3 | 696.0 | 387.3 | 393.0 | 393.7 |
| Chattanooga | 15.4 | 15.4 | 15.4 | 55.2 | 55.5 | 55.7 | 34.2 | 34.3 | 34.3 |
| Johnson City-Kingsport-Bristol .. | 6.0 | 6.2 | 6.2 | 49.4 | 50.6 | 50.9 | 29.1 | 29.4 | 29.4 |
| Knoxville ............................ | 13.7 | 14.0 | 14.0 | 86.6 | 84.7 | 86.6 | 55.1 | 54.5 | 54.5 |
| Memphis | 27.9 | 27.7 | 27.8 | 160.3 | 160.0 | 160.0 | 81.2 | 81.0 | 81.8 |
| Nashvilie | 38.5 | 39.5 | 39.3 | 197.5 | 197.2 | 198.9 | 81.7 | 84.9 | 84.8 |
| Texas | 458.5 | 474.7 | 476.8 | 2,361.0 | 2,467.5 | 2,489.0 | 1,499.8 | 1,520.6 | 1,526.1 |
| Abilene | 2.2 | 2.4 | 2.5 | 19.1 | 19.5 | 19.6 | 9.8 | 10.2 | 10.1 |
| Amarill . | 4.6 | 5.0 | 5.0 | 25.2 | 26.2 | 26.1 | 16.8 | 17.2 | 17.1 |
| Austin-San Marcos | 29.5 | 30.4 | 30.4 | 159.3 | 168.2 | 170.0 | 130.9 | 131.4 | 131.3 |
| Beaumont-Port Arthur | 5.0 | 5.3 | 5.3 | 40.9 | 42.3 | 42.3 | 26.5 | 26.9 | 26.9 |
| Brazoria | 1.8 | 1.8 | 1.8 | 13.7 | 13.8 | 13.9 | 13.8 | 14.7 | 14.7 |
| Brownsvilie-Harlingen-San Benito .................................................................. | 3.6 | 3.7 | 3.7 | 27.1 | 28.7 | 28.7 | 22.8 | 23.4 | 23.5 |
| Bryan-College Station ............................................... | 2.4 | 2.3 | 2.3 | 15.1 | 15.2 | 15.4 | 28.0 | 28.1 | 28.3 |
| Corpus Christi .......... | 6.5 | 6.5 | 6.6 | 46.4 | 49.1 | 49.5 | 31.4 | 31.4 | 31.4 |
| Dallas | 136.5 | 143.9 | 143.9 | 525.9 | 562.0 | 563.5 | 197.8 | 203.9 | 204.1 |
| El Paso | 9.4 | 10.0 | 10.1 | 53.9 | 57.0 | 57.6 | 53.1 | 55.0 | 55.3 |
| Ft. Worth-Arlington | 31.3 | 32.5 | 32.7 | 190.4 | 196.1 | 198.2 | 91.8 | 92.5 | 92.8 |
| Galveston-Texas City | 5.4 | 5.5 | 5.5 | 18.4 | 19.1 | 19.3 | 26.5 | 27.8 | 27.7 |
| Houston .................. | 98.7 | 102.6 | 103.1 | 560.0 | 593.6 | 596.8 | 255.0 | 255.7 | 256.2 |
| Killeen-Temple ....................................................... | 4.0 | 4.1 | 4.1 | 26.6 | 27.5 | 27.8 | 27.3 | 27.7 | 27.7 |
| Laredo ............................................................... | 2.3 | 2.3 | 2.4 | 10.6 | 11.1 | 11.1 | 14.3 | 14.4 | 14.6 |
| Longview-Marshall | 3.1 | 3.2 | 3.2 | 20.7 | 21.0 | 21.1 | 11.8 | 11.7 | 11.6 |
| Lubbock ............. | 5.4 | 5.6 | 5.6 | 33.0 | 34.8 | 35.1 | 25.2 | 25.3 | 25.3 |
| McAllen-Edinburg-Mission ...................................... | 4.8 | 5.0 | 5.0 | 30.4 | 32.4 | 32.4 | 36.3 | 38.4 | 39.1 |
| Odessa Midland .............. | 3.6 | 3.5 | 3.6 | 24.0 | 25.3 | 25.3 | 17.8 | 18.7 | 18.8 |
| San Angelo ......... | 1.6 | 1.6 | 1.6 | 12.8 | 13.2 | 13.1 | 8.7 | 9.1 | 9.0 |
| San Antonio | 43.4 | 44.6 | 44.8 | 206.5 | 217.6 | 221.0 | 135.2 | 136.2 | 136.0 |
| Sherman-Denison ..................................................... | 2.1 | 2.1 | 2.1 | 11.9 | 12.4 | 12.4 | 5.7 | 5.7 | 5.7 |
| Texarkana | 1.7 | 1.7 | 1.7 | 13.9 | 14.5 | 14.6 | 11.9 | 11.6 | 11.6 |
| Tyler ..... | 4.0 | 4.1 | 4.1 | 22.8 | 24.0 | 24.1 | 11.1 | 11.3 | 11.2 |
| Victoria | 1.6 | 1.4 | 1.4 | 9.3 | 9.8 | 9.8 | 6.2 | 6.5 | 6.5 |
| Waco | 5.7 | 5.7 | 5.7 | 27.9 | 29.1 | 29.2 | 15.0 | 15.0 | 15.3 |
| Wichita Falls | 2.1 | 2.2 | 2.3 | 16.2 | 16.6 | 16.9 | 12.8 | 13.1 | 13.1 |
| Utah | 52.3 | 53.5 | 53.8 | 265.6 | 278.0 | 278.1 | 175.9 | 181.2 | 182.1 |
| Provo-Orem .......................................................... | 3.9 | 4.2 | 4.2 | 51.7 | 53.3 | 53.1 | 19.1 | 19.7 | 19.9 |
| Salt Lake City-Ogden ................................................. | 43.2 | 43.9 | 43.9 | 175.7 | 185.9 | 186.0 | 113.4 | 115.9 | 116.2 |
| Vermont | 12.1 | 12.0 | 12.0 | 81.9 | 87.0 | 83.9 | 47.9 | 47.5 | 47.7 |
| Barre-Montpelier .................................................... | 2.6 | 2.4 | 2.4 | 7.9 | 8.9 | 8.4 | 7.1 | 7.3 | 7.2 |
| Burlington ............................................................ | 4.8 | 5.0 | 5.1 | 27.9 | 29.2 | 29.4 | 16.2 | 15.9 | 16.2 |
| Virglnia | 166.1 | 169.8 | 169.8 | 959.5 | 1,007.9 | 1,019.8 | 607.2 | 608.0 | 609.7 |
| Bristol | 1.2 | 1.3 | 1.3 | 7.8 | 7.9 | 8.0 | 5.6 | 5.6 | 5.5 |
| Charlottesville | 4.0 | 4.1 | 4.0 | 19.8 | 19.9 | 20.2 | 26.2 | 26.5 | 26.6 |
| Danville ................................................................ | 1.4 | 1.4 | 1.4 | 9.3 | 10.1 | 10.2 | 6.1 | 6.0 | 6.1 |
| Lynchburg ............................................................ | 4.1 | 4.4 | 4.2 | 24.8 | 25.6 | 26.0 | 12.8 | 12.6 | 12.6 |
| Nortolk-Virginia Beach-Newport News | 30.3 | 31.5 | 31.7 | 193.4 | 194.8 | 197.4 | 142.9 | 145.9 | 145.8 |
| Northern Virginia .................................................... | 54.4 | 55.8 | 55.7 | 383.4 | 408.4 | 412.6 | 181.6 | 180.9 | 180.8 |
| Richmond-Petersburg ................................................. | 44.1 | 44.5 | 44.5 | 134.0 | 143.8 | 146.1 | 100.4 | 97.5 | 98.2 |
| Roanoke ................................................................. | 9.2 | 9.3 | 9.2 | 40.8 | 41.6 | 41.7 | 18.0 | 17.7 | 17.9 |
| Washington | 126.8 | 132.0 | 133.3 | 672.1 | 695.3 | 703.9 | 463.8 | 465.2 | 467.0 |
| Seatle-Bellevue-Everett | 76.2 | 81.0 | 81.5 | 366.8 | 389.5 | 395.0 | 178.7 | 182.9 | 184.4 |
| Spokane .......................................................... | 10.8 | 11.1 | 11.0 | 55.6 | 57.0 | 57.6 | 31.3 | 31.7 | 31.9 |
| Tacoma | 12.0 | 12.2 | 12.2 | 65.8 | 65.0 | 65.3 | 47.5 | 48.3 | 48.6 |

See footnotes at end of table.

## B-14. Employees on nonfarm payrolls in States and selected areas by major industry - Continued

(In thousands)

| State and area | Total |  |  | Mining |  |  | Construction |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{gathered} \text { April } \\ 1998^{p} \end{gathered}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{aligned} & \text { Apnil } \\ & \text { 19989 } \end{aligned}$ | April <br> 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998 } \end{aligned}$ |
| Weat Virglnia | 702.9 | 705.4 | 711.7 | 24.7 | 22.8 | 23.1 | 34.1 | 29.8 | 33.6 |
| Charleston | 129.4 | 130.5 | 131.0 | 1.8 | 1.8 | 1.8 | 6.8 | 5.8 | 6.4 |
| Huntington-Ashland | 120.6 | 121.9 | 122.2 | 1.6 | 1.2 | 1.2 | 5.8 | 5.6 | 5.9 |
| Parkersburg-Marietta | 68.8 | 69.5 | 69.8 | . 3 | . 3 | . 3 | 4.3 | 3.7 | 3.8 |
| Wheeling ........................................................................................... | 64.5 | 65.3 | 66.1 | 1.6 | 1.5 | 1.5 | 2.2 | 1.9 | 2.3 |
| Wlaconsin .............................................................. | 2.616 .3 | 2,656.0 | 2,687.3 | 2.4 | 2.0 | 2.3 | 101.2 | 95.8 | 105.0 |
| Appleton-Oshkosh-Neenah .................................................................... | 190.3 | 194.9 | 197.1 | (1) ${ }^{2}$ | (1) | (1) | 10.1 | 10.1 | 10.7 |
| Eau Claire ............................................................ | 72.0 | 72.7 | 73.9 | (1) | (1) | (1) | 2.5 | 2.3 | 2.7 |
| Green Bay | 133.0 | 133.1 | 134.3 | (1) | (1) | (1) | 6.0 | 5.6 | 5.9 |
| Janesville-Beloit | 68.2 | 69.3 | 69.4 | (1) | (1) | (1) | 2.6 | 2.5 | 2.6 |
| Kenosha ...... | 50.1 | 51.0 | 51.5 | (1) | (1) | (1) | 2.1 | 1.8 | 2.1 |
| La Crosse ............................................................................................... | 68.3 | 68.4 | 69.7 | (1) | (1) | (1) | 2.4 | 2.2 | 2.5 |
| Madison ............................................................ | 265.9 | 269.4 | 272.2 | (1) | (1) | (1) | 11.7 | 11.5 | 12.2 |
| Milwaukee-Waukesha | 816.8 | 834.8 | 840.1 | $(1)$ | (1) | (1) | 28.3 | 28.2 | 29.3 |
| Racine | 79.2 | 81.7 | 82.6 | (1) | (1) | (1) | 3.0 | 2.9 | 3.2 |
| Sheboygan ........... | 57.1 | 57.9 | 58.1 | (1) | (1) | (1) | 2.3 | 2.2 | 2.3 |
| Wausau .......................................................... | 63.2 | 64.5 | 65.1 | (1) | (1) | (1) | 2.5 | 2.7 | 2.7 |
| Wyoming | 217.2 | 215.8 | 217.9 | 16.0 | 16.5 | 16.6 | 13.5 | 12.7 | 13.8 |
| Casper ........................................................................................ | 29.6 | 29.9 | 29.9 | 1.9 | 2.0 | 2.0 | 1.5 | 1.5 | 1.6 |
| Puerto Rico .......................................................... | 978.9 | 959.3 | 955.0 | 1.2 | 1.1 | 1.1 | 56.0 | 55.0 | 53.6 |
| Caguas | 66.3 | 65.4 | 64.7 | (1) |  | (1) | 3.2 | 3.1 | 3.1 |
| Mayaguez ............................................................ | 69.5 | 67.5 | 67.2 | (1) | (1) | (1) | 3.7 | 4.3 | 4.3 |
| Ponce ................................................................ | 75.9 | 76.2 | 75.2 | (1) | (1) | (1) | 4.8 | 5.1 | 4.5 |
| San Juan-Bayamon .................................................. | 614.0 | 602.1 | 600.3 | . 6 | 6 | . 6 | 38.7 | 38.0 | 37.3 |
| Virgin lsiands | 41.5 | 41.9 | 41.7 | $(1)$ | (1) | (') | 1.9 | 1.8 | 1.8 |

See footnotes at end of table.

B-14. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April <br> 1997 | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | $\begin{gathered} \text { April } \\ 1998^{\text {p }} \end{gathered}$ | April <br> 1997 | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | April 1999p | April $1997$ | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | $\begin{aligned} & \text { April } \\ & 1998^{\circ} \end{aligned}$ |
| West Virginla | 81.4 | 82.4 | 82.8 | 38.7 | 38.2 | 38.5 | 159.4 | 160.6 | 161.5 |
| Charleston | 9.9 | 10.3 | 10.3 | 9.3 | 9.2 | 9.1 | 31.0 | 31.0 | 31.2 |
| Huntington-Ashland | 17.1 | 16.8 | 16.6 | 6.7 | 6.6 | 6.7 | 31.1 | 30.8 | 30.7 |
| Parkersburg-Marietta | 13.1 | 132 | 13.3 | 2.6 | 2.6 | 2.6 | 17.0 | 17.0 | 17.1 |
| Wheeling ................. | 5.8 | 6.2 | 6.2 | 2.8 | 2.8 | 2.9 | 16.6 | 16.6 | 16.8 |
| Wisconsin ........................ | 599.0 | 613.5 | 615.6 | 123.8 | 123.0 | 123.8 | 590.0 | 596.7 | 603.2 |
| Appleton-Oshkosh-Neenah | 58.2 | 58.8 | 58.9 | 7.4 | 7.5 | 7.6 | 39.7 | 41.5 | 41.7 |
| Eau Clairs ........................ | 12.0 | 12.7 | 12.9 | 3.5 | 3.5 | 3.4 | 19.7 | 19.6 | 20.0 |
| Green Bay | 28.0 | 28.3 | 28.3 | 9.7 | 9.9 | 10.0 | 30.9 | 31.0 | 31.1 |
| Janesville-Beloit | 20.6 | 21.6 | 21.6 | 2.6 | 2.6 | 2.6 | 15.5 | 15.7 | 15.7 |
| Kenosha | 11.2 | 11.6 | 11.6 | 1.9 | 2.1 | 2.2 | 12.3 | 11.9 | 11.9 |
| La Crosse | 11.4 | 11.9 | 12.0 | 2.9 | 2.8 | 2.8 | 18.5 | 17.9 | 18.3 |
| Madison | 29.1 | 29.8 | 30.0 | 9.2 | 9.6 | 9.7 | 56.2 | 55.4 | 56.0 |
| Milwaukee-Waukesha | 174.4 | 178.2 | 178.5 | 39.5 | 40.0 | 40.0 | 176.3 | 179.5 | 178.9 |
| Racine ...... | 25.0 | 26.1 | 26.0 | 2.5 | 2.2 | 2.3 | 16.1 | 16.0 | 16.1 |
| Sheboygan | 23.5 | 23.8 | 23.9 | 1.7 | 1.8 | 1.8 | 10.5 | 10.5 | 10.7 |
| Wausau .... | 17.9 | 18.2 | 18.4 | 3.4 | 3.5 | 3.5 | 15.4 | 15.9 | 16.1 |
| Wyoming | 10.3 | 10.6 | 10.7 | 13.7 | 13.6 | 13.7 | 50.7 | 49.8 | 50.2 |
| Casper ................................... | 1.5 | 15 | 1.5 | 1.6 | 1.7 | 1.7 | 8.3 | 8.3 | 8.3 |
| Puerto fico | 153.1 | 144.3 | 143.1 | 27.6 | 26.5 | 25.6 | 195.0 | 193.9 | 193.6 |
| Caguas .... | 16.1 | 15.2 | 14.9 | . 7 | . 7 | . 7 | 14.4 | 14.9 | 14.8 |
| Mayaguez | 19.1 | 17.5 | 17.5 | . 7 | . 6 | . 6 | 11.8 | 11.5 | 11.4 |
| Ponce | 11.0 | 9.8 | 9.6 | 2.4 | 2.5 | 2.2 | 12.9 | 13.1 | 13.1 |
| San Juan-Bayamon | 69.9 | 65.4 | 65.0 | 22.2 | 21.0 | 20.3 | 129.5 | 128.0 | 127.9 |
| Virgin lslands | 2.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 9.5 | 9.2 | 9.2 |

See footnotes at end of table.

B-14. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April <br> 1997 | March 1998 | $\begin{gathered} \text { April } \\ \text { 1998P } \end{gathered}$ | April <br> 1997 | March 1998 | April 1998P | April <br> 1997 | $\begin{gathered} \text { March } \\ 1998 \end{gathered}$ | $\begin{gathered} \text { April } \\ 1998^{p} \end{gathered}$ |
| West Virginla | 28.1 | 28.2 | 28.3 | 196.5 | 201.7 | 202.8 | 140.0 | 141.7 | 141.1 |
| Charieston | 7.5 | 7.7 | 7.7 | 39.5 | 40.7 | 40.7 | 23.6 | 24.0 | 23.8 |
| Huntington-Ashland | 3.8 | 3.9 | 3.9 | 32.7 | 35.2 | 35.4 | 21.8 | 21.8 | 21.8 |
| Parkersburg-Marietta ................................................. | 2.6 | 2.6 | 2.6 | 18.2 | 19.4 | 19.4 | 10.7 | 10.7 | 10.7 |
| Wheeling ................................................................ | 2.8 | 2.9 | 3.0 | 22.6 | 23.2 | 23.2 | 10.1 | 10.2 | 10.2 |
| Wisconsin | 139.3 | 141.3 | 142.3 | 664.9 | 685.3 | 691.7 | 395.7 | 398.2 | 403.5 |
| Appleton-Oshkosh-Neenah | 9.4 | 9.8 | 9.9 | 43.0 | 44.4 | 45.3 | 22.6 | 22.9 | 23.0 |
| Eau Claire ............................................................... | 2.4 | 2.5 | 2.5 | 19.5 | 19.8 | 20.0 | 12.3 | 12.3 | 12.5 |
| Green Bay | 9.4 | 9.4 | 9.4 | 32.8 | 32.9 | 33.2 | 16.2 | 16.1 | 16.3 |
| Janesville-Beboit | 1.8 | 1.9 | 1.9 | 16.4 | 16.1 | 16.2 | 8.6 | 8.9 | 8.8 |
| Kenosha | 1.6 | 1.8 | 1.8 | 12.9 | 13.6 | 13.6 | 8.1 | 8.2 | 8.3 |
| La Crosse ................................................................ | 2.4 | 2.6 | 2.6 | 20.3 | 20.6 | 20.9 | 10.4 | 10.4 | 10.6 |
| Madison ................................................................. | 21.0 | 21.8 | 21.9 | 66.8 | 69.0 | 69.4 | 71.9 | 72.4 | 72.9 |
| Milwaukee-Waukesha | 57.4 | 58.2 | 58.6 | 251.7 | 259.8 | 262.9 | 89.1 | 90.9 | 92.0 |
| Racine ...... | 2.2 | 2.3 | 2.3 | 21.1 | 22.8 | 23.1 | 9.4 | 9.4 | 9.7 |
| Sheboygan ............................................................ | 2.1 | 2.2 | 2.2 | 10.7 | 10.9 | 10.8 | 6.2 | 6.4 | 6.4 |
| Wausau .................................................................. | 4.7 | 4.8 | 4.8 | 11.9 | 12.0 | 12.0 | 7.4 | 7.4 | 7.6 |
| Wyoming ................................................................... | 8.0 | 8.2 | 8.2 | 45.8 | 45.6 | 45.8 | 59.2 | 58.8 | 58.9 |
| Casper .................................................................. | 1.2 | 1.2 | 1.2 | 8.3 | 8.1 | 8.1 | 5.3 | 5.6 | 5.5 |
| Puerto Rico | 46.3 | 45.7 | 46.0 | 195.2 | 192.1 | 192.2 | 304.5 | 300.7 | 299.8 |
| Caguas .................................................................. | 1.6 | 1.7 | 1.8 | 12.3 | 12.3 | 12.3 | 18.0 | 17.5 | 17.1 |
| Mayaguez .............................................................. | 2.0 | 2.0 | 2.0 | 11.1 | 10.9 | 10.8 | 21.1 | 20.7 | 20.6 |
| Ponce ................................................................... | 2.3 | 2.3 | 2.4 35.0 | 16.6 | 17.0 130.4 | 17.2 | 25.9 184.5 | 26.4 183.0 | 26.2 182.7 |
| San Juan-Bayamon .................................................. | 36.4 | 35.7 | 35.9 | 132.2 | 130.4 | 130.6 | 184.5 | 183.0 | 182.7 |
| Virgin lsiands ............................................................. | 1.9 | 1.8 | 1.8 | 10.1 | 10.7 | 10.6 | 13.5 | 13.6 | 13.5 |

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 adjusted to March 1997 benchmarks.

## B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ \text { 1998p } \end{gathered}$ |
| Total private ................................................. |  | 34.6 | 34.4 | 34.5 | 34.2 | 34.5 | - | - | - | - | - |
| Goods-producing .................................................. |  | 41.3 | 41.2 | 40.9 | 40.1 | 41.1 | - | - | - | - | - |
| Mining ................................................................ |  | 45.4 | 45.1 | 43.4 | 43.5 | 44.4 | - | - | - | - | - |
| Metal mining ....................................................... | 10 | 44.4 | 44.1 | 44.9 | 45.8 | - | - | - | - | - | - |
| Iron ores ............................................................ | 101 | 45.8 | 45.6 | 46.2 | 44.2 | - | - | - | - | - | - |
| Copper ores ..................................................... | 102 | 45.9 | 46.2 | 45.7 | 49.6 | - | - | - | - | - | - |
| Coal mining | 12 | 45.4 | 45.0 | 45.0 | 44.3 | - | - | - | - | - | - |
| Bituminous coal and lignite mining ......................... | 122 | 45.5 | 45.1 | 44.9 | 44.1 | - | - | - | - | - | - |
| Oil and gas extraction ............................................ | 13 | 44.9 | 44.6 | 42.2 | 41.8 | - | - | - | - | - | - |
| Crude petroleum and natural gas ...................................................... | 131 | 42.2 | 41.9 | 40.9 | 40.6 | - | - | - | - | - | - |
| Oil and gas field services ..................................... | 138 | 46.4 | 46.0 | 42.8 | 42.3 | - | - | - | - | - | - |
| Nonmetallic minerals, except fuels | 14 | 47.3 | 47.1 | 44.8 | 46.8 | - | - | - | - | - | - |
| Crushed and broken stone | 142 | 48.8 | 48.9 | 45.7 | 48.9 | - | - | - | - | - | - |
| Construction ...................................................... |  | 38.9 | 38.8 | 37.9 | 38.0 | 39.3 | - | - | - | - | - |
| General building contractors ................................. | 15 | 38.2 | 38.4 | 37.4 | 37.5 | - | - | - | - | - | - |
| Residential building construction ........................... | 152 | 36.9 | 37.1 | 36.2 | 36.4 | - | - | - | - | - | - |
| Operative builders ............................................. | 153 | 38.4 | 40.4 | 39.1 | 39.5 | - | - | - | - | - | - |
| Nonresidential building construction ....................... | 154 | 39.5 | 39.7 | 38.7 | 38.7 | - | - | - | - | - | - |
| Heavy construction, except building ........................ | 16 | 42.4 | 42.2 | 41.3 | 41.2 | - | - | - | - | - | - |
| Highway and street construction ........................... | 161 | 43.2 | 42.4 | 39.7 | 41.3 | - | - | - | - | - | - |
| Heavy construction, except highway ...................... | 162 | 42.1 | 42.1 | 41.8 | 41.2 | - | - | - | - | - | - |
| Special trade contractors ...................................... | 17 | 38.3 | 38.1 | 37.4 | 37.5 | - | - | - | - | - | - |
| Plumbing, heating, and air conditioning .................. | 171 | 39.5 | 39.2 | 39.0 | 38.6 | - | - | - | - | - | - |
| Painting and paper hanging .................................. | 172 | 37.1 | 36.5 | 36.6 | 36.0 | - | - | - | - | - | - |
| Electrical work ................................................... | 173 | 40.0 | 39.9 | 39.5 | 39.2 | - | - |  | - | - |  |
| Masonry, stonework, and plastering ...................... | 174 | 35.8 | 35.7 | 34.4 | 35.6 | - | - | - | - | - | - |
| Carpentry and floor work | 175 | 35.7 | 35.7 | 35.2 | 35.4 | - | - | - | - | - | - |
| Roofing, siding, and sheet metal work ................... | 176 | 34.5 | 34.1 | 32.5 | 33.0 | - | - | - | - | - | - |
|  |  | 42.0 | 41.8 | 41.7 | 40.7 | 41.6 | 4.8 | 4.6 | 4.6 | 4.0 | 4.5 |
| Durable goods |  | 42.8 | 42.7 | 42.4 | 41.3 | 42.3 | 5.1 | 5.0 | 4.9 | 4.1 | 4.8 |
| Lumber and wood products .................................. |  | 41.0 | 41.2 | 40.8 | 40.8 | 41.3 | 4.3 | 4.4 | 4.2 | 4.1 | - |
| Logging | 241 | 40.8 | 41.1 | 40.4 | 40.7 | - | 5.7 | 5.7 | 5.6 | 5.1 | - |
| Sawmills and planing mills ................................. | 242 | 42.4 | 42.4 | 41.9 | 41.9 | - | 5.2 | 5.2 | 4.9 | 4.7 | - |
| Sawmills and planing mills, general .................... | 2421 | 42.8 | 42.8 | 42.3 | 42.3 | - | 5.7 | 5.8 | 5.3 | 5.1 | - |
| Hardwood dimension and flooring mills .............. | 2426 | 40.9 | 41.2 | 40.6 | 40.5 | - | 3.4 | 3.3 | 3.6 | 3.1 | - |
| Millwork, plywood, and structural members ........... | 243 | 41.4 | 41.7 | 41.3 | 41.4 | - | 4.3 | 4.5 | 4.4 | 4.3 | - |
| Millwork ......................................................... | 2431 | 40.8 | 40.8 | 39.8 | 40.5 | - | 3.5 | 3.5 | 3.1 | 3.2 | - |
| Wood kitchen cabinets ..................................... | 2434 | 40.5 | 41.6 | 42.0 | 41.7 | - | 4.4 | 5.2 | 5.4 | 5.1 | - |
| Hardwood veneer and plywood | 2435 | 42.3 | 42.9 | 42.4 | 41.5 | - | 4.9 | 5.2 | 5.3 | 4.7 | - |
| Softwood veneer and plywood .......................... | 2436 | 44.8 | 45.4 | 43.9 | 43.1 | - | 5.9 | 5.7 | 5.9 | 5.9 | - |
| Wood containers .............................................. | 244 | 39.1 | 39.0 | 38.1 | 37.6 | - | 3.5 | 3.4 | 3.2 | 2.9 | - |
| Wood buildings and mobile homes ...................... | 245 | 38.6 | 38.4 | 38.6 | 39.9 | - | 2.6 | 2.2 | 2.3 | 2.8 | - |
| Mobile homes ................................................ | 2451 | 38.7 | 38.7 | 38.5 | 40.1 | - | 2.5 | 2.0 | 2.4 | 2.9 | - |
| Miscellaneous wood products ............................ | 249 | 40.7 | 41.3 | 40.7 | 39.7 | - | 3.6 | 3.8 | 3.5 | 3.1 | - |
| Furniture and fixtures .......................................... | 25 | 40.2 | 39.5 | 40.4 | 39.7 | 40.3 | 3.5 | 3.0 | 3.5 | 3.3 | - |
| Household furniture .......................................... | 251 | 39.1 | 38.5 | 40.3 | 39.4 | - | 2.9 | 2.5 | 3.2 | 2.9 | - |
| Wood household furniture ................................ | 2511 | 39.3 | 39.0 | 40.4 | 40.0 | - | 2.8 | 2.6 | 3.1 | 2.9 | - |
| Upholstered household furniture ........................ | 2512 | 38.4 | 37.2 | 39.9 | 38.6 | - | 2.3 | 1.6 | 2.7 | 2.4 | - |
| Metal household furniture ................................. | 2514 | 40.5 | 41.2 | 41.5 | 39.0 | - | 4.3 | 4.8 | 4.5 | 4.3 | - |
| Mattresses and bedsprings .............................. | 2515 | 39.2 | 38.0 | 39.9 | 39.9 | - | 3.7 | 2.7 | 4.0 | 3.6 | - |
| Office furniture ................................................. | 252 | 42.0 | 40.2 | 40.2 | 39.4 | - | 4.3 | 3.3 | 3.9 | 3.6 | - |
| Public building and related furniture .................... | 253 | 40.6 | 40.1 | 40.4 | 40.0 | - | 4.2 | 3.6 | 3.8 | 4.0 | - |
| Partitions and fixtures ....................................... | 254 | 42.8 | 42.5 | 41.6 | 41.4 | - | 4.6 | 4.2 | 3.7 | 3.6 | - |
| Miscellaneous furniture and fixtures .................... | 259 | 40.4 | 39.6 | 39.4 | 38.7 | - | 3.6 | 3.2 | 3.6 | 3.5 | - |

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{gathered} \text { Apr. } \\ 19980 \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. <br> 1997 | $\begin{gathered} \text { Apr. } \\ 1997 \end{gathered}$ | Mar. 1998 | Apr. 1998 | $\begin{gathered} \text { May } \\ 1998 \mathrm{p} \end{gathered}$ |
| Total private |  | \$12.28 | \$12.18 | \$12.68 | \$12.69 | \$12.70 | \$424.89 | \$418.99 | \$437.46 | \$434.00 | \$438.15 |
| Goods-producing |  | 13.92 | 13.78 | 14.18 | 14.23 | 14.29 | 574.90 | 567.74 | 579.96 | 570.62 | 587.32 |
| Mining ................................................................ |  | 16.17 | 16.08 | 16.89 | 16.82 | 16.76 | 734.12 | 725.21 | 733.03 | 731.67 | 744.14 |
| Metal mining | 10 | 17.82 | 17.87 | 18.16 | 18.21 | - | 791.21 | 788.07 | 815.38 | 834.02 | - |
| Iron ores ... | 101 | 18.85 | 18.48 | 18.96 | 19.97 | - | 863.33 | 842.69 | 875.95 | 882.67 | - |
| Copper ores ...................................................... | 102 | 16.32 | 16.55 | 16.29 | 16.32 | - | 749.09 | 764.61 | 744.45 | 809.47 | - |
| Coal mining | 12 | 19.01 | 18.82 | 19.11 | 19.12 | - | 863.05 | 846.90 | 859.95 | 847.02 | - |
| Bituminous coal and lignite mining ........................ | 122 | 19.30 | 19.12 | 19.37 | 19.41 | - | 878.15 | 862.31 | 869.71 | 855.98 | - |
| Oil and gas extraction | 13 | 15.66 | 15.59 | 16.74 | 16.68 | - | 703.13 | 695.31 | 706.43 | 697.22 | - |
| Crude petroleum and natural gas | 131 | 21.09 | 20.89 | 22.07 | 22.25 | - | 890.00 | 875.29 | 902.66 | 903.35 | - |
| Oil and gas field services .................................... | 138 | 13.06 | 12.99 | 14.19 | 13.95 | - | 605.98 | 597.54 | 607.33 | 590.09 | - |
| Nonmetallic minerals, except fuels ...................... | 14 | 14.19 | 14.00 | 14.51 | 14.53 | - | 671.19 | 659.40 | 650.05 | 680.00 | - |
| Crushed and broken stone ................................... | 142 | 13.56 | 13.45 | 13.87 | 13.93 | - | 661.73 | 657.71 | 633.86 | 681.18 | - |
| Construction ........................................................ |  | 16.03 | 15.78 | 16.29 | 16.35 | 16.45 | 623.57 | 612.26 | 617.39 | 621.30 | 646.49 |
| General building contractors | 15 | 15.21 | 15.05 | 15.73 | 15.80 | - | 581.02 | 577.92 | 588.30 | 592.50 | - |
| Residential building construction | 152 | 14.15 | 14.00 | 14.82 | 14.94 | - | 522.14 | 519.40 | 536.48 | 543.82 | - |
| Operative builders | 153 | 15.05 | 14.95 | 15.31 | 14.80 | - | 577.92 | 603.98 | 598.62 | 584.60 | - |
| Nonresidential building construction ...................... | 154 | 16.24 | 16.04 | 16.64 | 16.68 | - | 641.48 | 636.79 | 643.97 | 645.52 | - |
| Heavy construction, except building ........................ | 16 | 15.60 | 15.24 | 15.47 | 15.68 | - | 661.44 | 643.13 | 638.91 | 646.02 | - |
| Highway and street construction ........................... | 161 | 15.75 | 15.10 | 15.05 | 15.34 | - | 680.40 | 640.24 | 597.49 | 633.54 | - |
| Heavy construction, except highway ..................... | 162 | 15.53 | 15.30 | 15.59 | 15.81 | - | 653.81 | 644.13 | 651.66 | 651.37 | - |
| Special trade contractors | 17 | 16.41 | 16.17 | 16.67 | 16.71 | - | 628.50 | 616.08 | 623.46 | 626.63 | - |
| Plumbing, heating, and air conditioning .................. | 171 | 16.73 | 16.58 | 16.97 | 17.01 | - | 660.84 | 649.94 | 661.83 | 656.59 | - |
| Painting and paper hanging .................................. | 172 | 14.67 | 14.44 | 15.06 | 15.04 | - | 544.26 | 527.06 | 551.20 | 541.44 | - |
| Electrical work ................................................... | 173 | 17.82 | 17.67 | 18.09 | 18.08 | - | 712.80 | 705.03 | 714.56 | 708.74 | - |
| Masonry, stonework, and plastering ...................... | 174 | 16.22 | 15.97 | 16.42 | 16.61 | - | 580.68 | 570.13 | 564.85 | 591.32 | - |
| Carpentry and floor work ..................................... | 175 | 16.03 | 15.71 | 16.13 | 16.62 | - | 572.27 | 560.85 | 567.78 | 588.35 | - |
| Roofing, siding, and sheet metal work .................... | 176 | 14.20 | 13.87 | 14.35 | 14.39 | - | 489.90 | 472.97 | 466.38 | 474.87 | - |
| Manufacturing ...................................................... |  | 13.17 | 13.08 | 13.47 | 13.46 | 13.47 | 553.14 | 546.74 | 561.70 | 547.82 | 560.35 |
| Durable goods ................................................... |  | 13.73 | 13.63 | 14.02 | 13.96 | 13.98 | 587.64 | 582.00 | 594.45 | 576.55 | 591.35 |
| Lumber and wood products ................................. | 24 | 10.77 | 10.65 | 10.95 | 10.99 | 11.06 | 441.57 | 438.78 | 446.76 | 448.39 | 456.78 |
| Logging | 241 | 12.18 | 11.92 | 12.29 | 12.21 | - | 496.94 | 489.91 | 496.52 | 496.95 | - |
| Sawmills and planing mills | 242 | 10.86 | 10.80 | 11.10 | 11.04 | - | 460.46 | 457.92 | 465.09 | 462.58 | - |
| Sawmills and planing mills, general .................... | 2421 | 11.29 | 11.23 | 11.54 | 11.48 | - | 483.21 | 480.64 | 488.14 | 485.60 | - |
| Hardwood dimension and flooring mills ............... | 2426 | 9.18 | 9.11 | 9.41 | 9.37 | - | 375.46 | 375.33 | 382.05 | 379.49 | - |
| Millwork, plywood, and structural members ........... | 243 | 10.88 | 10.80 | 11.06 | 11.17 | - | 450.43 | 450.36 | 456.78 | 462.44 | - |
| Millwork ........ | 2431 | 10.95 | 10.91 | 11.01 | 11.22 | - | 446.76 | 445.13 | 438.20 | 454.41 | - |
| Wood kitchen cabinets | 2434 | 10.62 | 10.54 | 11.09 | 11.14 | - | 430.11 | 438.46 | 465.78 | 464.54 | - |
| Hardwood veneer and plywood ......................... | 2435 | 9.52 | 9.46 | 9.81 | 9.97 | - | 402.70 | 405.83 | 415.94 | 413.76 | - |
| Softwood veneer and plywood .......................... | 2436 | 13.07 | 12.87 | 13.26 | 13.35 | - | 585.54 | 584.30 | 582.11 | 575.39 | - |
| Wood containers. | 244 | 8.37 | 8.24 | 8.67 | 8.69 | - | 327.27 | 321.36 | 330.33 | 326.74 | - |
| Wood buildings and mobile homes ....................... | 245 | 10.86 | 10.68 | 11.15 | 11.25 | - | 419.20 | 410.11 | 430.39 | 448.88 | - |
| Mobile homes ................................................ | 2451 | 11.05 | 10.83 | 11.30 | 11.40 | - | 427.64 | 419.12 | 435.05 | 457.14 | - |
| Miscellaneous wood products ............................. | 249 | 10.25 | 10.16 | 10.36 | 10.37 | - | 417.18 | 419.61 | 421.65 | 411.69 | - |
| Furniture and fixtures ........................................... | 25 | 10.55 | 10.42 | 10.80 | 10.86 | 10.78 | 424.11 | 411.59 | 436.32 | 431.14 | 434.43 |
| Household furniture ........................................... | 251 | 9.96 | 9.84 | 10.17 | 10.23 | - | 389.44 | 378.84 | 409.85 | 403.06 | - |
| Wood household furniture ................................ | 2511 | 9.52 | 9.45 | 9.79 | 9.72 | - | 374.14 | 368.55 | 395.52 | 388.80 | - |
| Upholstered household furniture ....................... | 2512 | 10.62 | 10.49 | 10.87 | 11.04 | - | 407.81 | 390.23 | 433.71 | 426.14 | - |
| Metal household furniture ................................. | 2514 | 9.55 | 9.58 | 9.40 | 9.78 | - | 386.78 | 394.70 | 390.10 | 381.42 | - |
| Mattresses and bedsprings .............................. | 2515 | 10.64 | 10.45 | 10.74 | 10.78 | - | 417.09 | 397.10 | 428.53 | 430.12 | - |
| Office furniture | 252 | 11.63 | 11.44 | 12.00 | 11.92 | - | 488.46 | 459.89 | 482.40 | 469.65 | - |
| Public building and related furniture | 253 | 11.41 | 11.34 | 11.80 | 12.02 | - | 463.25 | 454.73 | 476.72 | 480.80 | - |
| Partitions and fixtures ........................................ | 254 | 11.30 | 11.21 | 11.61 | 11.64 | - | 483.64 | 476.43 | 482.98 | 481.90 | - |
| Miscellaneous furniture and fixtures ..................... | 259 | 10.49 | 10.38 | 10.97 | 10.98 | - | 423.80 | 411.05 | 432.22 | 424.93 | - |

See footnotes at end of table.

## ESTABLISHMENT DATA HOURS AND EARNINGS NOT SEASONALLY ADJUSTED

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry-Continued

| Industry | $1987$ SIC <br> Code | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. <br> 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ 1998 \mathrm{p} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. 1997 | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Stone, clay, and glass products ............................. | 32 | 43.2 | 42.9 | 42.5 | 42.9 | 44.1 | 5.9 | 5.7 | 5.6 | 5.8 | - |
| Flat glass ........................................................ | 321 | 45.6 | 45.7 | 45.6 | 44.1 | - | 7.5 | 8.4 | 8.1 | 8.7 | - |
| Glass and glassware, pressed or blown ................ | 322 | 42.4 | 42.3 | 41.8 | 41.7 | - | 4.8 | 4.7 | 4.5 | 5.3 | - |
| Glass containers ........ | 3221 | 44.4 | 43.8 | 44.3 | 45.4 | - | 6.4 | 6.2 | 6.3 | 7.4 | - |
| Pressed and blown glass, nec ........................... | 3229 | 41.1 | 41.3 | 40.2 | 39.3 | - | 3.7 | 3.7 | 3.4 | 4.0 | - |
| Products of purchased glass .............................. | 323 | 41.8 | 41.3 | 41.9 | 40.9 | - | 4.5 | 4.1 | 4.7 | 4.0 | - |
| Cement, hydraulic .............................................. | 324 | 45.2 | 45.1 | 46.5 | 46.2 | - | 5.8 | 5.8 | 7.3 | 6.8 | - |
| Structural clay products ..................................... | 325 | 42.3 | 42.6 | 41.7 | 41.8 | - | 4.9 | 4.9 | 4.5 | 4.7 | - |
| Pottery and related products .............................. | 326 | 40.9 | 40.5 | 41.1 | 40.7 | - | 4.6 | 4.1 | 4.5 | 4.7 | - |
| Concrete, gypsum, and plaster products ............... | 327 | 44.3 | 44.1 | 43.0 | 44.6 | - | 7.3 | 7.0 | 6.7 | 7.3 | - |
| Concrete block and brick .................................. | 3271 | 46.2 | 46.1 | 45.3 | 46.7 | - | 8.4 | 8.4 | 7.9 | 8.3 | - |
| Concrete products, nec ................................... | 3272 | 43.5 | 42.9 | 42.7 | 43.2 | - | 6.2 | 5.5 | 5.8 | 5.9 | - |
| Ready-mixed concrete ...................................... | 3273 | 43.9 | 43.7 | 41.7 | 44.4 | - | 7.5 | 7.3 | 6.6 | 7.8 | - |
| Misc. nonmetallic mineral products | 329 | 42.7 | 42.3 | 42.6 | 42.4 | - | 5.3 | 5.2 | 5.2 | 4.4 | - |
| Abrasive products ........................................... | 3291 | 42.9 | 43.0 | 41.2 | 40.9 | - | 3.9 | 3.9 | 3.1 | 3.0 | - |
| Asbestos products .......................................... | 3292 | 46.8 | 47.0 | 48.1 | 43.4 | _ | 7.5 | 7.9 | 7.7 | 4.8 | - |
| Primary metal industries ...................................... | 33 | 44.9 | 44.7 | 44.5 | 43.4 | 44.2 | 6.7 | 6.5 | 6.5 | 5.7 | - |
| Blast furnaces and basic steel products ............... | 331 | 44.9 | 44.9 | 45.2 | 44.7 | 45.3 | 6.5 | 6.3 | 6.6 | 6.2 | - |
| Blast furnaces and steel mills ............................ | 3312 | 45.4 | 45.2 | 45.8 | 45.6 | - | 6.8 | 6.5 | 7.0 | 6.6 | - |
| Steel pipe and tubes | 3317 | 44.4 | 44.7 | 43.5 | 41.7 | - | 6.5 | 6.4 | 6.1 | 4.8 | - |
| Iron and steel foundries | 332 | 46.1 | 46.0 | 45.1 | 43.8 | - | 7.1 | 6.9 | 6.6 | 5.7 | - |
| Gray and ductile iron foundries .......................... | 3321 | 46.7 | 46.7 | 45.9 | 44.3 | - | 8.0 | 7.8 | 7.3 | 6.4 | _ |
| Malleable iron foundries ................................... | 3322 | 51.1 | 49.0 | 51.8 | 51.2 | - | 9.2 | 9.5 | 8.3 | 8.1 | - |
| Steel foundries, nec | 3325 | 44.2 | 43.5 | 43.2 | 42.0 | - | 5.3 | 4.7 | 5.4 | 4.7 | - |
| Primary nonferrous metals ................................. | 333 | 44.1 | 44.0 | 44.0 | 44.3 | - | 6.1 | 6.0 | 6.0 | 6.4 | - |
| Primary aluminum | 3334 | 43.9 | 43.8 | 44.4 | 45.3 | - | 6.0 | 5.7 | 6.2 | 7.1 | - |
| Nonferrous rolling and drawing ........................... | 335 | 45.1 | 44.4 | 44.4 | 42.7 | - | 7.7 | 7.3 | 7.3 | 6.3 | - |
| Copper rolling and drawing ............................... | 3351 | 43.9 | 43.8 | 42.8 | 41.4 | - | 7.6 | 7.5 | 7.2 | 6.0 | - |
| Aluminum sheet, plate, and foil .......................... | 3353 | 46.8 | 47.1 | 45.6 | 43.6 | - | 8.9 | 8.1 | 9.8 | 10.3 | - |
| Nonferrous wire drawing and insulating .............. | 3357 | 45.2 | 43.9 | 44.0 | 42.3 | - | 7.5 | 6.9 | 6.9 | 5.6 | - |
| Nonterrous foundries (castings) .......................... | 336 | 43.6 | 43.7 | 42.8 | 40.9 | - | 5.4 | 5.4 | 4.9 | 3.6 | - |
| Aluminum foundries | 3365 | 43.4 | 43.2 | 43.0 | 40.4 | - | 5.3 | 5.1 | 5.0 | 3.8 | - |
| Fabricated metal products .................................... | 34 | 42.6 | 42.4 | 42.2 | 40.9 | 41.1 | 5.1 | 4.9 | 4.8 | 3.8 | - |
| Metal cans and shipping containers | 341 | 43.2 | 42.6 | 42.5 | 42.3 | - | 6.3 | 6.2 | 5.7 | 5.8 | - |
| Metal cans | 3411 | 43.5 | 42.6 | 42.5 | 42.5 | - | 6.3 | 6.1 | 5.5 | 5.7 | - |
| Cutlery, handtools, and hardware ........................ | 342 | 42.7 | 42.3 | 41.8 | 40.6 | - | 4.6 | 4.3 | 4.1 | 3.1 | - |
| Hand and edge tools, and blades and handsaws | 3423,5 | 42.5 | 41.9 | 42.9 | 41.7 | - | 4.4 | 4.0 | 4.7 | 3.4 | - |
| Hardware, nec | 3429 | 42.8 | 42.7 | 41.5 | 40.4 | - | 4.7 | 4.5 | 4.1 | 3.2 | - |
| Plumbing and heating, except electric .................. | 343 | 41.7 | 42.1 | 40.9 | 39.7 | - | 4.3 | 4.2 | 3.4 | 3.1 | - |
| Plumbing fixture fittings and trim ........................ | 3432 | 41.9 | 42.2 | 40.9 | 38.8 | - | 4.0 | 3.8 | 4.1 | 3.5 | - |
| Heating equipment, except electric .................... | 3433 | 41.1 | 39.8 | 39.0 | 39.4 | - | 3.8 | 2.7 | 2.0 | 2.3 | - |
| Fabricated structural metal products .................... | 344 | 42.1 | 41.6 | 41.6 | 41.1 | - | 4.7 | 4.5 | 4.4 | 3.6 | - |
| Fabricated structural metal ............................... | 3441 | 42.8 | 42.7 | 42.3 | 41.7 | - | 5.8 | 5.8 | 5.4 | 4.7 | - |
| Metal doors, sash, and trim | 3442 | 40.8 | 40.5 | 40.1 | 40.3 | - | 3.6 | 3.3 | 2.7 | 2.7 | - |
| Fabricated plate work (boiler shops) | 3443 | 43.3 | 42.5 | 43.6 | 42.1 | - | 5.5 | 5.2 | 5.6 | 4.1 | - |
| Sheet metal work .......................... | 3444 | 41.4 | 41.2 | 40.8 | 40.5 | - | 4.1 | 4.0 | 3.9 | 3.4 | - |
| Architectural metal work ................................... | 3446 | 41.6 | 40.8 | 40.9 | 41.0 | - | 4.1 | 3.7 | 3.8 | 3.8 | - |
| Screw machine products, bolts, etc ...................... | 345 | 44.1 | 43.8 | 44.4 | 42.4 | - | 6.0 | 5.9 | 6.3 | 5.0 | - |
| Screw machine products ................................. | 3451 | 42.8 | 42.9 | 42.7 | 41.8 | - | 5.2 | 5.2 | 5.5 | 4.7 | - |
| Boits, nuts, rivets, and washers ......................... | 3452 | 45.5 | 44.9 | 46.5 | 43.2 | - | 6.9 | 6.7 | 7.3 | 5.4 | - |
| Metal forgings and stampings ............................. | 346 | 43.8 | 44.0 | 43.1 | 40.6 | - | 6.0 | 6.1 | 5.7 | 3.9 | - |
| Iron and steel forgings | 3462 | 45.2 | 45.4 | 44.9 | 42.1 | - | 6.9 | 7.0 | 6.5 | 5.2 | - |
| Automotive stampings ..................................... | 3465 | 44.6 | 45.1 | 43.4 | 40.2 | - | 6.4 | 6.6 | 5.9 | 3.5 | _ |
| Metal stampings, nec ....................................... | 3469 | 42.0 | 42.0 | 41.6 | 40.3 | - | 4.7 | 4.7 | 4.6 | 3.5 | - |
| Metal services, nec ........................................... | 347 | 41.7 | 41.7 | 41.5 | 40.3 | - | 4.9 | 4.8 | 4.9 | 4.0 | - |
| Plating and polishing ................................................................ | 3474 | 41.1 | 41.0 | 41.2 | 39.8 | - | 4.6 | 4.5 | 4.6 | 3.9 | - |
| Metal coating and allied services ....................... | 3479 | 42.7 | 42.7 | 41.9 | 41.1 | - | 5.4 | 5.2 | 5.4 | 4.2 | - |
| Ordnance and accessories, nec ......................... | 348 | 40.1 | 39.4 | 40.4 | 39.9 | - | 3.2 | 2.5 | 3.5 | 3.0 | - |
| Ammunition, except for small arms, nec .............. | 3483 | 40.9 | 40.7 | 40.7 | 41.5 | - | 3.1 | 2.6 | 3.4 | 3.3 | - |
| Misc. fabricated metal products .......................... | 349 | 42.6 | 42.3 | 42.3 | 41.0 | - | 4.7 | 4.5 | 4.4 | 3.4 | - |
| Valves and pipe fittings, nec ............................. | 3494 | 42.4 | 41.9 | 41.8 | 40.8 | - | 4.6 | 4.1 | 4.1 | 3.3 | - |
| Misc. fabricated wire products ........................... | 3496 | 40.8 | 40.4 | 40.4 | 40.0 | - | 3.7 | 3.5 | 3.3 | 3.0 | - |

See footnotes at end of table.

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

B-15. 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 hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | Apr. 1997 | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ | Avg. 1997 | Apr. 1997 | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | Apr. $1998^{p}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Stone, clay, and giass products | 32 | \$13.18 | \$13.06 | \$13.46 | \$13.63 | \$13.55 | \$569.38 | \$560.27 | \$572.05 | \$584.73 | \$597.56 |
| Flat glass | 321 | 18.65 | 18.39 | 19.56 | 19.99 | - | 850.44 | 840.42 | 891.94 | 881.56 | - |
| Glass and glassware, pressed or blown | 322 | 14.98 | 14.95 | 15.18 | 15.64 |  | 635.15 | 632.39 | 634.52 | 652.19 |  |
| Glass containers | 3221 | 15.69 | 15.91 | 15.82 | 16.50 | - | 696.64 | 696.86 | 700.83 | 749.10 | - |
| Pressed and blown glass, nec | 3229 | 14.49 | 14.27 | 14.74 | 15.02 | - | 595.54 | 589.35 | 592.55 | 590.29 | - |
| Products of purchased glass ... | 323 | 11.92 | 11.90 | 12.09 | 12.14 | - | 498.26 | 491.47 | 506.57 | 496.53 | - |
| Cement, hydraulic ............... | 324 | 17.48 | 17.33 | 18.30 | 18.84 | - | 790.10 | 781.58 | 850.95 | 870.41 |  |
| Structural clay products | 325 | 11.49 | 11.51 | 11.61 | 11.75 | - | 486.03 | 490.33 | 484.14 | 491.15 | - |
| Pottery and related products | 326 | 11.47 | 11.37 | 11.82 | 11.98 | - | 469.12 | 460.49 | 485.80 | 487.59 | - |
| Concrete, gypsum, and plaster products | 327 | 12.60 | 12.39 | 12.79 | 12.97 | - | 558.18 | 546.40 | 549.97 | 578.46 | - |
| Concrete block and brick .................... | 3271 | 12.24 | 12.02 | 12.31 | 12.41 | - | 565.49 | 554.12 | 557.64 | 579.55 | - |
| Concrete products, nec | 3272 | 11.21 | 10.98 | 11.45 | 11.55 | - | 487.64 | 471.04 | 488.92 | 498.96 | - |
| Ready-mixed concrete | 3273 | 13.39 | 13.17 | 13.64 | 13.81 | - | 587.82 | 575.53 | 568.79 | 613.16 | - |
| Misc. nonmetalic mineral products | 329 | 13.58 | 13.48 | 13.83 | 13.94 | - | 579.87 | 570.20 | 589.16 | 591.06 | - |
| Abrasive products ........................................... | 3291 | 11.87 | 11.59 | 12.41 | 12.37 | - | 509.22 | 498.37 | 511.29 | 505.93 |  |
| Asbestos products ........................................... | 3292 | 15.74 | 15.59 | 15.34 | 15.00 | - | 736.63 | 732.73 | 737.85 | 651.00 | - |
| Primary metai industries ..................................... | 33 | 15.22 | 15.15 | 15.52 | 15.65 | 15.60 | 683.38 | 677.21 | 690.64 | 679.21 | 689.52 |
| Blast furnaces and basic steel products ................ | 331 | 18.03 | 17.92 | 18.32 | 18.66 | 18.55 | 809.55 | 804.61 | 828.06 | 834.10 | 840.32 |
| Blast furnaces and steel mills ......... | 3312 | 19.61 | 19.45 | 19.94 | 20.33 | - | 890.29 | 879.14 | 913.25 | 927.05 | - |
| Steel pipe and tubes | 3317 | 14.17 | 14.15 | 14.21 | 14.26 | - | 629.15 | 632.51 | 618.14 | 594.64 | - |
| Iron and steel foundries | 332 | 13.81 | 13.72 | 14.16 | 14.10 | - | 636.64 | 631.12 | 638.62 | 617.58 |  |
| Gray and ductile iron foundries | 3321 | 14.68 | 14.51 | 15.04 | 14.97 | - | 685.56 | 677.62 | 690.34 | 663.17 | - |
| Malleable iron foundries | 3322 | 16.10 | 17.38 | 16.46 | 15.94 | - | 822.71 | 851.62 | 852.63 | 816.13 | - |
| Steel foundries, nec | 3325 | 12.59 | 12.37 | 12.98 | 12.94 | - | 556.48 | 538.10 | 560.74 | 543.48 | - |
| Primary nonferrous metals | 333 | 16.66 | 16.55 | 16.82 | 17.30 | - | 734.71 | 728.20 | 740.08 | 766.39 | - |
| Primary aluminum ....... | 3334 | 16.70 | 16.59 | 16.65 | 17.24 | - | 733.13 | 726.64 | 739.26 | 780.97 | - |
| Nonferrous rolling and drawing | 335 | 14.48 | 14.41 | 14.81 | 14.76 | - | 653.05 | 639.80 | 657.56 | 630.25 | - |
| Copper rolling and drawing .. | 3351 | 14.57 | 14.39 | 15.08 | 15.08 | - | 639.62 | 630.28 | 645.42 | 624.31 | - |
| Aluminum sheet, plate, and foil | 3353 | 16.66 | 16.46 | 16.34 | 17.04 | - | 779.69 | 775.27 | 745.10 | 742.94 | - |
| Nonferrous wire drawing and insulating | 3357 | 14.51 | 14.42 | 15.32 | 14.96 | - | 655.85 | 633.04 | 674.08 | 632.81 | - |
| Nonferrous foundries (castings) ............ | 336 | 12.05 | 12.14 | 12.36 | 12.26 | - | 525.38 | 530.52 | 529.01 | 501.43 | - |
| Aluminum foundries ............... | 3365 | 11.56 | 11.43 | 11.70 | 11.69 | - | 501.70 | 493.78 | 503.10 | 472.28 | - |
| Fabricated metal products ................................... | 34 | 12.79 | 12.75 | 13.01 | 12.90 | 12.68 | 544.85 | 540.60 | 549.02 | 527.61 | 521.15 |
| Metal cans and shipping containers ..................... | 341 | 16.29 | 16.29 | 16.73 | 16.70 | - | 703.73 | 693.95 | 711.03 | 706.41 | - |
| Metal cans | 3411 | 17.34 | 17.39 | 17.84 | 17.73 | - | 754.29 | 740.81 | 758.20 | 753.53 | - |
| Cutlery, handtools, and hardware | 342 | 12.46 | 12.46 | 12.34 | 12.25 | - | 532.04 | 527.06 | 515.81 | 497.35 | - |
| Hand and edge tools, and blades and handsaws | 3423,5 | 12.00 | 11.87 | 12.15 | 12.12 | - | 510.00 | 497.35 | 521.24 | 505.40 | - |
| Hardware, nec | 3429 | 12.58 | 12.55 | 12.60 | 12.51 | - | 538.42 | 535.89 | 522.90 | 505.40 | - |
| Plumbing and heating, except electric .................. | 343 | 11.71 | 11.60 | 11.88 | 11.88 | - | 488.31 | 488.36 | 485.89 | 471.64 | - |
| Plumbing fixture fittings and trim | 3432 | 11.39 | 11.25 | 11.60 | 11.52 | - | 477.24 | 474.75 | 474.44 | 446.98 | - |
| Heating equipment, except electric .................... | 3433 | 11.74 | 11.56 | 11.68 | 11.91 | - | 482.51 | 460.09 | 455.52 | 469.25 | - |
| Fabricated structural metal products .................... | 344 | 12.11 | 12.04 | 12.38 | 12.32 | - | 509.83 | 500.86 | 515.01 | 506.35 | - |
| Fabricated structural metal ............................... | 3441 | 12.18 | 12.06 | 12.61 | 12.69 | - | 521.30 | 514.96 | 533.40 | 529.17 | - |
| Metal doors, sash, and trim | 3442 | 10.35 | 10.28 | 10.48 | 10.50 | - | 422.28 | 416.34 | 420.25 | 423.15 | - |
| Fabricated plate work (boiler shops) | 3443 | 13.44 | 13.45 | 13.69 | 13.42 | - | 581.95 | 571.63 | 596.88 | 564.98 | - |
| Sheet metal work .......................... | 3444 | 12.36 | 12.27 | 12.65 | 12.65 | - | 511.70 | 505.52 | 516.12 | 512.33 | - |
| Architectural metal work | 3446 | 11.52 | 11.44 | 11.69 | 11.84 | - | 479.23 | 466.75 | 478.12 | 485.44 | - |
| Screw machine products, bolts, etc | 345 | 12.89 | 12.86 | 13.23 | 13.19 | - | 568.45 | 563.27 | 587.41 | 559.26 | - |
| Screw machine products ............ | 3451 | 12.22 | 12.11 | 12.49 | 12.50 | - | 523.02 | 519.52 | 533.32 | 522.50 | - |
| Bolts, nuts, rivets, and washers | 3452 | 13.63 | 13.69 | 14.04 | 13.98 | - | 620.17 | 614.68 | 652.86 | 603.94 | _ |
| Metal forgings and stampings | 346 | 14.95 | 14.98 | 15.28 | 14.91 | - | 654.81 | 659.12 | 658.57 | 605.35 | - |
| Iran and steel forgings | 3462 | 14.32 | 14.31 | 14.50 | 14.48 | - | 647.26 | 649.67 | 651.05 | 609.61 | - |
| Automotive stampings | 3465 | 17.13 | 17.19 | 17.57 | 16.88 | _ | 764.00 | 775.27 | 762.54 | 678.58 | - |
| Metal stampings, nec.. | 3469 | 12.24 | 12.18 | 12.57 | 12.53 | - | 514.08 | 511.56 | 522.91 | 504.96 | _ |
| Metal services, nec. | 347 | 10.81 | 10.78 | 11.02 | 11.04 | - | 450.78 | 449.53 | 457.33 | 444.91 | - |
| Plating and polishing | 3471 | 10.65 | 10.61 | 10.92 | 10.91 | - | 437.72 | 435.01 | 449.90 | 434.22 | - |
| Metal coating and allied services ....................... | 3479 | 11.05 | 11.05 | 11.17 | 11.24 | - | 471.84 | 471.84 | 468.02 | 461.96 | - |
| Ordnance and accessories, nec ... | 348 | 15.10 | 14.79 | 15.43 | 15.56 | - | 605.51 | 582.73 | 623.37 | 620.84 | - |
| Ammunition, except for small arms, nec .............. | 3483 | 15.93 | 15.64 | 16.32 | 16.53 | - | 651.54 | 636.55 | 664.22 | 686.00 | - |
| Misc. fabricated metal products ............. | 349 | 12.21 | 12.13 | 12.36 | 12.31 | - | 520.15 | 513.10 | 522.83 | 504.71 | _ |
| Valves and pipe fittings, nec. | 3494 | 12.43 | 12.32 | 12.50 | 12.59 | - | 527.03 | 516.21 | 522.50 | 513.67 | - |
| Misc. fabricated wire products ........................... | 3496 | 10.85 | 10.77 | 10.96 | 10.92 | - | 442.68 | 435.11 | 442.78 | 436.80 | - |

See footnotes at end of table.

## ESTABLISHMENT DATA HOURS AND EARNINGS NOT SEASONALLY ADJUSTED

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. <br> 1997 | Apr. 1997 | Mar. | Apr. <br> 1998p | $\begin{gathered} \text { May } \\ 19988 \end{gathered}$ | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{gathered} \text { Apr. } \\ \text { 1998p } \end{gathered}$ | $\begin{gathered} \text { May } \\ \text { 1998p } \end{gathered}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Industrial machinery and equipment ....................... | 35 | 43.6 | 43.6 | 43.5 | 41.9 | 43.2 | 5.5 | 5.5 | 5.6 | 4.3 | - |
| Engines and turbines ......................................... | 351 | 44.3 | 42.6 | 45.6 | 43.4 | - | 5.9 | 5.0 | 6.5 | 5.0 | - |
| Turbines and turbine generator sets ................... | 3511 | 42.7 | 42.0 | 43.0 | 40.7 | - | 4.7 | 4.3 | 4.6 | 3.2 | - |
| Internal combustion engines, nec ....................... | 3519 | 44.8 | 42.8 | 46.5 | 44.4 | - | 6.3 | 5.2 | 7.2 | 5.6 | - |
| Farm and garden machinery .............................. | 352 | 43.0 | 44.2 | 42.5 | 41.0 | - | 5.2 | 6.1 | 4.5 | 3.4 | - |
| Farm machinery and equipment ................... | 3523 | 43.4 | 44.1 | 42.9 | 41.4 | - | 5.7 | 6.2 | 5.0 | 3.8 | - |
| Construction and related machinery ..................... | 353 | 44.8 | 44.7 | 44.5 | 42.8 | - | 6.1 | 6.0 | 6.3 | 4.8 | - |
| Construction machinery .................................... | 3531 | 44.1 | 44.4 | 44.3 | 42.9 | - | 5.4 | 5.4 | 6.0 | 4.6 | - |
| Mining machinery | 3532 | 42.9 | 43.3 | 41.6 | 40.9 | - | 4.9 | 5.1 | 4.4 | 3.7 | - |
| Oil and gas field machinery .............................. | 3533 | 49.5 | 49.3 | 49.1 | 45.1 | - | 9.8 | 9.7 | 10.1 | 7.2 | - |
| Conveyors and conveying equipment ................ | 3535 | 43.0 | 42.9 | 42.9 | 41.3 | - | 5.4 | 5.7 | 5.0 | 3.5 | - |
| Industrial trucks and tractors ............................ | 3537 | 41.7 | 41.5 | 40.7 | 40.4 | - | 4.2 | 3.8 | 3.6 | 3.4 | - |
| Metalworking machinery .................................... | 354 | 44.2 | 44.3 | 43.9 | 42.1 | - | 6.4 | 6.4 | 6.3 | 4.9 | - |
| Machine tools, metal culting types | 3541 | 44.5 | 44.5 | 44.5 | 42.2 | - | 6.3 | 6.2 | 6.4 | 4.6 | - |
| Machine tools, metal forming types .................... | 3542 | 45.4 | 45.2 | 46.1 | 42.1 | - | 6.5 | 6.0 | 7.7 | 4.4 | - |
| Special dies, tools, jigs, and fixtures ................... | 3544 | 44.4 | 44.4 | 43.9 | 42.3 | - | 7.0 | 7.0 | 6.7 | 5.4 | - |
| Machine tool accessories ................................ | 3545 | 43.5 | 43.6 | 43.4 | 41.7 | - | 5.1 | 5.1 | 5.0 | 4.0 | - |
| Power driven handicols | 3546 | 42.2 | 42.2 | 40.9 | 40.3 | - | 4.3 | 4.1 | 3.2 | 2.6 | - |
| Special industry machinery | 355 | 43.3 | 43.3 | 42.9 | 41.6 | - | 5.3 | 5.0 | 5.0 | 4.0 | - |
| Textile machinery | 3552 | 41.6 | 40.8 | 40.9 | 39.5 | - | 3.8 | 3.1 | 3.8 | 2.3 | - |
| Printing trades machinery | 3555 | 41.7 | 41.7 | 42.5 | 40.9 | - | 4.6 | 4.0 | 5.1 | 4.1 | - |
| Food products machinery | 3556 | 42.4 | 42.1 | 42.8 | 42.0 | - | 4.7 | 4.7 | 4.7 | 4.1 | - |
| General industrial machinery .............................. | 356 | 43.3 | 43.4 | 43.2 | 41.4 | - | 5.3 | 5.3 | 5.1 | 3.8 | - |
| Pumps and pumping equipment ........................ | 3561 | 42.5 | 42.7 | 41.5 | 40.3 | - | 4.9 | 5.2 | 4.6 | 3.7 | - |
| Ball and roller bearings .................................... | 3562 | 44.3 | 44.6 | 43.9 | 41.6 | - | 6.6 | 6.7 | 6.4 | 5.3 | - |
| Air and gas compressors | 3563 | 43.3 | 44.1 | 43.4 | 41.5 | - | 5.2 | 5.8 | 5.7 | 3.7 | - |
| Blowers and fans | 3564 | 43.6 | 43.0 | 42.5 | 41.2 | - | 4.3 | 3.9 | 3.7 | 2.2 | - |
| Speed changers, drives, and gears | 3566 | 44.3 | 44.9 | 44.7 | 41.5 | - | 6.2 | 6.6 | 6.7 | 4.3 | - |
| Power transmission equipment, nec ................... | 3568 | 42.5 | 42.6 | 43.5 | 41.2 | - | 5.2 | 5.2 | 5.0 | 3.5 | - |
| Computer and office equipment .......................... | 357 | 42.2 | 42.4 | 42.5 | 41.4 | - | 3.8 | 3.4 | 4.5 | 3.3 | - |
| Electronic computers | 3571 | 41.9 | 41.4 | 43.3 | 42.0 | - | 3.2 | 2.3 | 5.5 | 3.9 | - |
| Computer terminals, calculators, and office machines, nec $\qquad$ | 3575,8,9 | 42.4 | 43.0 | 42.1 | 40.6 | - | 4.8 | 4.6 | 4.2 | 2.9 | - |
| Refrigeration and service machinery ................... | 358 | 43.7 | 43.2 | 43.9 | 42.1 | - | 5.0 | 5.0 | 4.6 | 3.6 | - |
| Refrigeration and heating equipment | 3585 | 44.1 | 43.7 | 44.7 | 42.5 | - | 5.3 | 5.3 | 4.9 | 3.8 | - |
| Misc. industrial and commercial machinery ........... | 359 | 43.3 | 43.4 | 43.3 | 41.9 | - | 5.9 | 5.8 | 6.1 | 4.8 | - |
| Carburetors, pistons, rings, valves ........... | 3592 | 41.4 | 42.4 | 41.8 | 40.3 | - | 4.9 | 5.1 | 5.5 | 4.5 | - |
| Scales, balances, and industrial machinery, nec .. | 3596,9 | 43.2 | 43.3 | 43.3 | 42.0 | - | 5.9 | 5.8 | 6.2 | 4.9 | - |
| Electronic and other electrical equipment ................ | 36 | 42.0 | 41.9 | 41.4 | 40.3 | 41.2 | 4.2 | 4.0 | 3.8 | 3.2 | - |
| Electric distribution equipment ............................. | 361 | 41.7 | 41.3 | 40.4 | 39.2 | - | 4.2 | 3.8 | 3.9 | 3.0 | - |
| Transformers, except electronic ........................ | 3612 | 42.3 | 41.6 | 41.5 | 40.3 | - | 3.8 | 3.2 | 3.6 | 2.9 | - |
| Switchgear and switchboard apparatus ............... | 3613 | 41.1 | 41.0 | 39.5 | 38.2 | - | 4.6 | 4.3 | 4.1 | 3.1 | - |
| Electrical industrial apparatus. | 362 | 41.8 | 41.7 | 41.2 | 39.9 | - | 3.8 | 3.8 | 3.6 | 2.8 | - |
| Motors and generators | 3621 | 41.9 | 41.8 | 41.0 | 39.6 | - | 3.7 | 3.8 | 3.5 | 2.5 | - |
| Relays and industrial controls ............................ | 3625 | 40.9 | 40.8 | 40.6 | 38.9 | - | 3.6 | 3.7 | 3.5 | 2.7 | - |
| Household appliances ...................................... | 363 | 40.3 | 40.1 | 40.3 | 38.2 | - | 3.0 | 2.7 | 2.4 | 1.6 | - |
| Househoid refrigerators and freezers ................. | 3632 | 39.4 | 38.4 | 41.2 | 37.3 | - | 2.5 | 2.3 | 2.9 | 1.7 | - |
| Household laundry equipment | 3633 | 40.0 | 40.8 | 40.1 | 40.5 | - | 2.1 | 1.7 | 2.9 | 2.7 | - |
| Electric housewares and tans. | 3634 | 41.1 | 40.8 | 39.8 | 38.3 | - | 2.9 | 2.5 | 1.7 | 1.2 | - |
| Electric lighting and wiring equipment .................. | 364 | 42.0 | 42.0 | 41.2 | 39.7 | - | 4.5 | 4.3 | 3.9 | 2.9 | - |
| Electric lamps .......................... | 3641 | 43.1 | 43.7 | 40.7 | 41.0 | - | 5.2 | 5.6 | 3.7 | 2.8 | - |
| Current-carrying wiring devices. | 3643 | 41.6 | 42.0 | 41.3 | 39.6 | - | 4.5 | 4.6 | 4.1 | 3.1 | - |
| Noncurrent-carrying wiring devices | 3644 | 42.1 | 42.0 | 42.8 | 40.6 | - | 3.4 | 3.4 | 3.2 | 2.2 | - |
| Residential lighting fixtures ............................... | 3645 | 39.4 | 39.2 | 39.1 | 38.1 | - | 2.9 | 2.7 | 3.2 | 2.7 | - |
| Household audio and video equipment ................ | 365 | 41.8 | 41.4 | 41.0 | 40.0 | - | 4.6 | 3.6 | 4.3 | 3.9 | - |
| Household audio and video equipment ............... | 3651 | 41.2 | 40.7 | 39.5 | 38.5 | - | 3.3 | 2.6 | 3.0 | 2.7 | - |
| Communications equipment ............................... | 366 | 42.5 | 42.4 | 42.1 | 41.7 | - | 3.9 | 3.6 | 3.3 | 2.6 | - |
| Telephone and telegraph apparatus ................... | 3661 | 44.3 | 44.5 | 43.6 | 43.7 | - | 4.4 | 4.5 | 3.9 | 3.3 | - |
| Electronic components and accessories ............... | 367 | 42.2 | 42.2 | 41.5 | 40.5 | - | 4.5 | 4.4 | 4.1 | 3.6 | - |
| Electron tubes | 3671 | 40.3 | 39.8 | 42.6 | 41.4 | - | 4.4 | 4.1 | 3.8 | 3.4 | - |
| Semiconductors and related devices | 3674 | 42.9 | 42.8 | 42.6 | 42.2 | - | 4.8 | 4.5 | 5.0 | 5.0 | - |
| Electronic components, nec ............................. | 3679 | 41.8 | 42.2 | 40.8 | 40.2 | - | 3.9 | 3.9 | 3.7 | 3.0 | - |
| Misc. electrical equipment and supplies ............... | 369 | 42.3 | 42.1 | 41.9 | 41.6 | - | 4.6 | 4.1 | 4.3 | 4.0 | - |
| Storage batteries ............................................ | 3691 | 42.3 | 41.4 | 41.3 | 38.6 | - | 4.6 | 3.5 | 3.8 | 2.9 | - |
| Engine electrical equipment ............................. | 3694 | 42.7 | 42.8 | 41.9 | 43.2 | - | 5.1 | 4.7 | 5.1 | 5.4 | - |

See footnotes at end of table.

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

B-15. 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 hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | Apr. 1997 | Mar. 1998 | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. 1997 | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1998 \mathrm{p} \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 \mathrm{p} \end{gathered}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Industrial machinery and equipment ....................... | 35 | \$14.07 | \$13.96 | \$14.36 | \$14.32 | \$14.35 | \$613.45 | \$608.66 | \$624.66 | \$600.01 | \$619.92 |
| Engines and turbines ......................................... | 351 | 16.83 | 16.85 | 16.74 | 16.76 | - | 745.57 | 717.81 | 763.34 | 727.38 | - |
| Turbines and turbine generator sets | 3511 | 19.33 | 19.38 | 19.82 | 19.64 | - | 825.39 | 813.96 | 852.26 | 799.35 | - |
| Internal combustion engines, nec .... | 3519 | 16.01 | 16.02 | 15.74 | 15.84 | - | 717.25 | 685.66 | 731.91 | 703.30 | - |
| Farm and garden machinery ......... | 352 | 13.78 | 13.61 | 13.98 | 14.19 | - | 592.54 | 601.56 | 594.15 | 581.79 | - |
| Farm machinery and equipment | 3523 | 14.77 | 15.04 | 14.88 | 15.06 | - | 641.02 | 663.26 | 638.35 | 623.48 | - |
| Construction and related machinery | 353 | 13.53 | 13.50 | 13.59 | 13.57 | - | 606.14 | 603.45 | 604.76 | 580.80 | - |
| Construction machinery | 3531 | 13.89 | 13.83 | 13.89 | 13.93 | - | 612.55 | 614.05 | 615.33 | 597.60 | - |
| Mining machinery ......... | 3532 | 14.51 | 14.40 | 14.47 | 14.44 | - | 622.48 | 623.52 | 601.95 | 590.60 | - |
| Oil and gas field machinery | 3533 | 13.30 | 13.32 | 13.44 | 13.34 | - | 658.35 | 656.68 | 659.90 | 601.63 |  |
| Conveyors and conveying equipment | 3535 | 13.59 | 13.57 | 13.74 | 13.69 | - | 584.37 | 582.15 | 589.45 | 565.40 | - |
| Industrial trucks and tractors | 3537 | 12.43 | 12.33 | 12.72 | 12.50 | - | 518.33 | 511.70 | 517.70 | 505.00 | - |
| Metalworking machinery ...... | 354 | 14.90 | 14.80 | 15.26 | 15.16 | - | 658.58 | 655.64 | 669.91 | 638.24 | - |
| Machine tools, metal cutting types | 3541 | 14.61 | 14.51 | 14.97 | 14.80 | - | 650.15 | 645.70 | 666.17 | 624.56 |  |
| Machine toois, metal forming types | 3542 | 15.26 | 15.15 | 15.61 | 15.43 | - | 692.80 | 684.78 | 719.62 | 649.60 | - |
| Special dies, tools, jigs, and fixtures | 3544 | 15.64 | 15.52 | 15.98 | 15.85 | - | 694.42 | 689.09 | 701.52 | 670.46 | - |
| Machine tool accessories | 3545 | 13.12 | 13.10 | 13.34 | 13.34 | - | 570.72 | 571.16 | 578.96 | 556.28 | - |
| Power driven handtools | 3546 | 12.26 | 12.24 | 12.50 | 12.52 | - | 517.37 | 516.53 | 511.25 | 504.56 | - |
| Special industry machinery | 355 | 14.68 | 14.52 | 15.10 | 14.96 | - | 635.64 | 628.72 | 647.79 | 622.34 | - |
| Textile machinery ........... | 3552 | 12.75 | 12.60 | 13.18 | 13.03 | - | 530.40 | 514.08 | 539.06 | 514.69 | - |
| Printing trades machinery | 3555 | 15.64 | 15.53 | 15.97 | 16.12 | - | 652.19 | 647.60 | 678.73 | 659.31 | - |
| Food products machinery | 3556 | 14.37 | 14.15 | 14.64 | 14.60 | - | 609.29 | 595.72 | 626.59 | 613.20 | - |
| General industrial machinery | 356 | 13.78 | 13.72 | 14.06 | 13.96 | - | 596.67 | 595.45 | 607.39 | 577.94 | - |
| Pumps and pumping equipmen | 3561 | 14.55 | 14.53 | 14.77 | 14.74 | - | 618.38 | 620.43 | 612.96 | 594.02 | - |
| Ball and roller bearings | 3562 | 14.99 | 15.03 | 15.24 | 15.26 | - | 664.06 | 670.34 | 669.04 | 634.82 | - |
| Air and gas compressors | 3563 | 14.46 | 14.06 | 14.92 | 14.71 | - | 626.12 | 620.05 | 647.53 | 610.47 | - |
| Blowers and fans | 3564 | 11.49 | 11.41 | 11.65 | 11.50 | - | 500.96 | 490.63 | 495.13 | 473.80 | - |
| Speed changers, drives, and gears | 3566 | 14.64 | 14.57 | 14.99 | 14.83 | - | 648.55 | 654.19 | 670.05 | 615.45 | _ |
| Power transmission equipment, nec | 3568 | 13.25 | 13.26 | 13.46 | 13.35 | - | 563.13 | 564.88 | 585.51 | 550.02 |  |
| Computer and office equipment .......................... | 357 | 14.31 | 14.13 | 14.87 | 15.08 | - | 603.88 | 599.11 | 631.98 | 624.31 | - |
| Electronic computers ...................................... | 3571 | 15.66 | 15.51 | 15.98 | 16.52 | - | 656.15 | 642.11 | 691.93 | 693.84 | - |
| Computer terminals, calculators, and affice machines, nec $\qquad$ | 3575,8,9 | 13.43 | 13.45 | 13.53 | 13.61 | - | 569.43 | 578.35 | 569.61 | 552.57 | - |
| Refrigeration and service machinery .................... | 358 | 12.81 | 12.62 | 12.97 | 13.01 | - | 559.80 | 545.18 | 569.38 | 547.72 | _ |
| Refrigeration and heating equipment | 3585 | 13.16 | 12.93 | 13.34 | 13.40 | - | 580.36 | 565.04 | 596.30 | 569.50 | - |
| Misc. industrial and commercial machinery | 359 | 13.66 | 13.55 | 14.05 | 13.88 | - | 591.48 | 588.07 | 608.37 | 581.57 | - |
| Carburetors, pistons, rings, valves ........... | 3592 | 14.30 | 14.22 | 14.60 | 14.50 | - | 592.02 | 602.93 | 610.28 | 584.35 | - |
| Scales, balances, and industrial machinery, nec .. | 3596,9 | 13.47 | 13.35 | 13.91 | 13.73 | - | 581.90 | 578.06 | 602.30 | 576.66 | - |
| Electronic and other electrical equipment ................ | 36 | 12.70 | 12.55 | 13.06 | 13.09 | 13.11 | 533.40 | 525.85 | 540.68 | 527.53 | 540.13 |
| Electric distribution equipment ............................. | 361 | 12.66 | 12.52 | 12.98 | 13.13 | - | 527.92 | 517.08 | 524.39 | 514.70 | - |
| Transformers, except electronic | 3612 | 11.72 | 11.56 | 11.91 | 12.21 | - | 495.76 | 480.90 | 494.27 | 492.06 | - |
| Switchgear and switchboard apparatus .............. | 3613 | 13.59 | 13.49 | 13.99 | 14.00 | - | 558.55 | 553.09 | 552.61 | 534.80 | - |
| Electrical industrial apparalus | 362 | 12.16 | 12.11 | 12.45 | 12.37 | - | 508.29 | 504.99 | 512.94 | 493.56 | - |
| Motors and generators | 3621 | 11.34 | 11.29 | 11.55 | 11.42 | - | 475.15 | 471.92 | 473.55 | 452.23 | - |
| Relays and industrial controls ........................... | 3625 | 13.74 | 13.70 | 14.18 | 14.13 | - | 561.97 | 558.96 | 575.71 | 549.66 | _ |
| Household appliances ........... | 363 | 12.19 | 12.10 | 12.35 | 12.34 | - | 491.26 | 485.21 | 497.71 | 471.39 | - |
| Househoid refrigerators and freezers | 3632 | 13.38 | 13.26 | 13.45 | 13.26 | - | 527.17 | 509.18 | 554.14 | 494.60 | - |
| Household laundry equipment | 3633 | 14.26 | 14.21 | 14.23 | 14.00 | - | 570.40 | 579.77 | 570.62 | 567.00 | - |
| Electric housewares and fans. | 3634 | 10.28 | 10.04 | 10.68 | 10.63 | - | 422.51 | 409.63 | 425.06 | 407.13 | - |
| Electric lighting and wiring equipment | 364 | 12.70 | 12.65 | 12.74 | 12.72 | - | 533.40 | 531.30 | 524.89 | 504.98 | - |
| Electric lamps | 3641 | 15.68 | 15.51 | 16.09 | 16.33 | - | 675.81 | 677.79 | 654.86 | 669.53 | - |
| Current-carrying wiring devices ......................... | 3643 | 12.91 | 12.79 | 12.88 | 12.91 | - | 537.06 | 537.18 | 531.94 | 511.24 | - |
| Noncurrent-carrying wiring devices | 3644 | 11.38 | 11.28 | 11.48 | 11.44 | - | 479.10 | 473.76 | 491.34 | 464.46 | - |
| Residential lighting fixtures ............................... | 3645 | 9.06 | 9.18 | 9.19 | 9.17 | - | 356.96 | 359.86 | 359.33 | 349.38 | - |
| Household audio and video equipment ................. | 365 | 11.11 | 10.83 | 11.63 | 11.80 | - | 464.40 | 448.36 | 476.83 | 472.00 | - |
| Household audio and video equipment ............... | 3651 | 10.72 | 10.58 | 11.19 | 11.35 | - | 441.66 | 430.61 | 442.01 | 436.98 | - |
| Communications equipment ............................... | 366 | 13.88 | 13.81 | 13.93 | 13.81 | - | 589.90 | 585.54 | 586.45 | 575.88 | - |
| Telephone and telegraph apparatus. | 3661 | 15.05 | 15.10 | 14.84 | 14.75 | - | 666.72 | 671.95 | 647.02 | 644.58 | - |
| Electronic components and accessories ............... | 367 | 12.53 | 12.29 | 13.12 | 13.21 | - | 528.77 | 518.64 | 544.48 | 535.01 | _ |
| Electron tubes ................................. | 3671 | 14.58 | 14.09 | 15.23 | 15.15 | - | 587.57 | 560.78 | 648.80 | 627.21 | - |
| Semiconductors and related devices | 3674 | 16.20 | 15.71 | 17.38 | 17.48 | - | 694.98 | 672.39 | 740.39 | 737.66 | - |
| Electronic components, nec ............................. | 3679 | 10.44 | 10.36 | 10.70 | 10.69 | - | 436.39 | 437.19 | 436.56 | 429.74 | _ |
| Misc. electrical equipment and supplies ............... | 369 | 13.61 | 13.41 | 14.05 | 14.02 | - | 575.70 | 564.56 | 588.70 | 583.23 | - |
| Storage batteries ............................................ | 3691 | 14.86 | 14.53 | 14.93 | 15.20 | - | 628.58 | 601.54 | 616.61 | 586.72 | - |
| Engine electrical equipment ............................ | 3694 | 13.78 | 13.70 | 14.80 | 14.68 | - | 588.41 | 586.36 | 620.12 | 634.18 | - |

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \end{aligned}$Code | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1999^{\circ} \end{aligned}$ | $\begin{gathered} \text { May } \\ 199 \mathrm{~B}^{\mathrm{p}} \end{gathered}$ | Avg. 1997 | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 \mathrm{P} \end{gathered}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Transportation equipment ... | 37 | 44.5 | 44.7 | 43.7 | 41.4 | 43.8 | 6.4 | 6.5 | 6.0 | 4.9 | - |
| Motor vehicles and equipment ............................. | 371 | 45.0 | 45.4 | 43.9 | 41.2 | 44.1 | 6.8 | 7.0 | 6.4 | 5.3 | - |
| Motor vehicles and car bodies ........................... | 3711 | 45.5 | 45.3 | 43.1 | 39.6 | - | 6.9 | 7.0 | 6.2 | 4.5 | - |
| Truck and bus bodies | 3713 | 44.0 | 45.3 | 44.5 | 44.0 | - | 5.9 | 6.2 | 6.8 | 6.4 | - |
| Motor vehicle parts and accessories | 3714 | 45.2 | 45.8 | 44.7 | 42.0 | - | 7.1 | 7.3 | 6.7 | 5.9 | - |
| Truck trailers .................................. | 3715 | 41.9 | 41.8 | 41.4 | 41.1 | - | 3.9 | 4.1 | 4.5 | 4.2 | - |
| Aircraft and parts | 372 | 44.7 | 44.4 | 44.4 | 42.7 | - | 7.2 | 7.1 | 6.4 | 5.2 | - |
| Aircraft | 3721 | 44.2 | 43.8 | 44.1 | 42.6 | - | 7.2 | 7.2 | 6.1 | 5.0 | - |
| Aircraft engines and engine parts ...................... | 3724 | 45.1 | 44.9 | 44.4 | 42.8 | - | 6.8 | 6.5 | 6.1 | 4.8 | - |
| Aircraft parts and equipment, nec ....................... | 3728 | 45.1 | 44.9 | 44.7 | 42.9 | - | 7.3 | 7.5 | 7.0 | 5.5 | - |
| Ship and boat building and repairing .................... | 373 | 42.2 | 42.4 | 42.3 | 40.4 | - | 4.3 | 4.4 | 4.6 | 3.4 | - |
| Ship building and repairing. | 3731 | 43.9 | 43.8 | 43.9 | 40.8 | - | 5.3 | 5.3 | 5.5 | 3.6 | - |
| Boat building and repairing | 3732 | 39.7 | 40.3 | 40.0 | 39.9 | - | 2.9 | 3.1 | 3.4 | 3.0 | - |
| Railroad equipment ............ | 374 | 44.3 | 43.4 | 43.8 | 42.5 | - | 4.6 | 4.2 | 4.6 | 3.0 | - |
| Guided missiles, space vehicles, and parts ........... | 376 | 43.1 | 42.8 | 42.6 | 40.6 | - | 4.3 | 3.8 | 4.5 | 3.1 | - |
| Guided missiles and space vehicles ................... | 3761 | 43.2 | 43.1 | 42.8 | 41.0 | - | 4.3 | 3.8 | 4.4 | 3.1 | - |
| Misc. transportation equipment ........................... | 379 | 40.2 | 40.7 | 40.9 | 39.8 | - | 3.6 | 4.0 | 3.8 | 3.3 | - |
| Travel trailers and campers .............................. | 3792 | 38.3 | 38.8 | 38.4 | 37.7 | - | 2.2 | 2.5 | 2.2 | 2.1 | - |
| Insiruments and related products .......................... | 38 | 42.0 | 41.7 | 41.7 | 40.6 | 41.2 | 3.9 | 3.8 | 3.8 | 2.9 | - |
| Search and navigation equipment ........................ | 381 | 43.5 | 43.7 | 43.1 | 42.3 | - | 4.0 | 3.8 | 3.8 | 3.3 | - |
| Measuring and controlling devices ...................... | 382 | 41.9 | 41.6 | 41.7 | 40.5 | - | 3.6 | 3.3 | 3.7 | 2.5 | - |
| Environmental controls ..................................... | 3822 | 41.0 | 40.0 | 41.0 | 37.3 | - | 3.4 | 3.0 | 4.3 | 2.3 | - |
| Process control instruments | 3823 | 42.1 | 41.5 | 42.0 | 40.9 | - | 3.6 | 3.5 | 4.1 | 2.7 | - |
| instruments to measure electricity ...................... | 3825 | 41.6 | 41.5 | 41.9 | 41.3 | - | 3.2 | 3.0 | 2.6 | 1.9 | - |
| Medical instruments and supplies ....................... | 384 | 41.7 | 41.1 | 41.2 | 39.9 | - | 3.6 | 3.3 | 3.6 | 2.9 | - |
| Surgical and medical instrument | 3841 | 41.9 | 41.0 | 41.4 | 39.8 | - | 3.8 | 3.6 | 3.6 | 2.6 | - |
| Surgical appliances and supplies | 3842 | 41.0 | 40.8 | 40.2 | 39.4 | - | 3.5 | 3.0 | 3.7 | 3.3 | - |
| Ophthalmic goods | 385 | 40.3 | 39.2 | 42.1 | 41.3 | - | 2.5 | 1.8 | 3.0 | 3.0 | - |
| Photographic equipment and supplies | 386 | 43.3 | 43.7 | 42.5 | 42.7 | - | 7.7 | 9.0 | 6.0 | 4.2 | - |
| Watches, clocks, watchcases, and parts .............. | 387 | 39.7 | 40.2 | 39.8 | 36.9 | - | 2.4 | 2.5 | 2.6 | 1.6 | - |
| Miscellaneous manufacturing industries ................. | 39 | 40.4 | 40.2 | 40.5 | 39.4 | 39.8 | 3.3 | 3.1 | 3.3 | 2.6 | - |
| Jewelry, silverware, and plated ware | 391 | 39.9 | 39.4 | 39.9 | 39.1 | - | 2.6 | 2.3 | 2.7 | 2.0 | - |
| Jewelry, precious metal | 3911 | 39.4 | 38.7 | 39.1 | 38.2 | - | 2.5 | 2.3 | 2.8 | 2.0 | - |
| Musical instruments .......................................... | 393 | 41.1 | 41.2 | 40.3 | 39.5 | - | 2.8 | 2.7 | 2.4 | 2.1 | - |
| Toys and sporting goods ................................... | 394 | 40.0 | 40.0 | 41.2 | 39.8 | - | 2.8 | 3.0 | 3.2 | 2.4 | - |
| Dolls, games, toys, and children's vehicles .......... | 3942.4 | 39.1 | 38.8 | 39.4 | 37.8 | - | 2.3 | 2.0 | 2.0 | 1.5 | - |
| Sporting and athletic goods, nec ....................... | 3949 | 40.4 | 40.5 | 42.0 | 40.6 | - | 3.0 | 3.5 | 3.8 | 2.8 | - |
| Pens, pencils, office, and art supplies .................. | 395 | 40.4 | 40.6 | 38.8 | 38.2 | - | 3.3 | 3.3 | 3.2 | 2.7 | - |
| Costume jewelry and notions | 396 | 39.7 | 40.3 | 39.3 | 38.0 | - | 3.0 | 3.1 | 2.5 | 1.7 | - |
| Costume jewelry ............................................. | 3961 | 39.6 | 39.9 | 38.6 | 37.5 | - | 2.8 | 2.4 | 1.7 | 1.0 | - |
| Miscellaneous manufactures .............................. | 399 | 40.8 | 40.5 | 40.7 | 39.6 | - | 3.8 | 3.5 | 3.7 | 2.9 | - |
| Signs and advertising specialties ..................... | 3993 | 41.5 | 41.1 | 42.0 | 41.1 | - | 4.3 | 3.9 | 4.4 | 3.8 | - |
| Nondurable goods ............................................. |  | 40.9 | 40.5 | 40.7 | 40.0 | 40.6 | 4.4 | 4.1 | 4.2 | 3.8 | 4.2 |
| Food and kindred products |  | 41.3 | 40.4 | 40.9 | 40.3 | 41.3 | 5.0 | 4.3 | 4.6 | 4.2 | - |
| Meat products | 201 | 40.5 | 39.6 | 40.0 | 39.6 | , | 4.4 | 3.6 | 4.2 | 3.8 | - |
| Meat packing plants ........ | 2011 | 42.1 | 40.7 | 41.5 | 41.3 | - | 5.1 | 3.9 | 4.7 | 3.9 | - |
| Sausages and other prepared meats ................. | 2013 | 41.9 | 40.9 | 41.6 | 40.8 | - | 5.6 | 4.4 | 5.9 | 5.5 | - |
| Poultry slaughtering and processing .................. | 2015 | 39.1 | 38.6 | 38.5 | 38.3 | - | 3.6 | 3.1 | 3.4 | 3.2 | - |
| Dairy products .................................................. | 202 | 42.2 | 42.1 | 41.5 | 41.4 | - | 5.1 | 5.0 | 4.8 | 4.7 | - |
| Cheese, natural and processed | 2022 | 41.7 | 41.2 | 40.9 | 40.7 | - | 4.5 | 4.1 | 4.3 | 4.1 | - |
| Fluid milk ...................................................... | 2026 | 42.5 | 42.2 | 41.0 | 40.8 | - | 5.0 | 4.9 | 4.5 | 4.4 | - |
| Preserved fruits and vegetables .......................... | 203 | 41.4 | 39.6 | 40.7 | 39.5 | - | 5.5 | 4.0 | 4.3 | 3.7 | - |
| Canned specialties .......................................... | 2032 | 42.8 | 40.7 | 42.3 | 40.7 | - | 6.9 | 5.4 | 6.0 | 4.2 | - |
| Canned fruits and vegetables ........................... | 2033 | 41.7 | 39.0 | 39.9 | 38.8 | - | 6.1 | 3.3 | 3.7 | 4.0 | - |
| Frozen fruits and vegetables ............................ | 2037 | 40.3 | 39.6 | 41.3 | 40.2 | - | 4.7 | 4.1 | 4.5 | 3.7 | - |
| Grain mill products ............................................. | 204 | 45.6 | 44.8 | 45.2 | 44.6 | - | 7.2 | 6.6 | 6.5 | 5.9 | - |
| Flour and other grain mill products ................................................ | 2041 | 45.7 | 44.0 | 45.2 | 44.4 | _ | 7.2 | 6.4 | 6.3 | 4.8 | - |
| Prepared feeds, nec ........................................ | 2048 | 44.1 | 44.7 | 43.6 | 43.5 | - | 6.4 | 6.3 | 5.6 | 5.6 | - |

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed indusiry-Continued

| Industry | 1987 SIC Code | Average hourly earmings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. <br> 1998 | $\begin{gathered} \text { Apr. } \\ \text { 1998p } \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Durable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Transportation equipment .................................... | 37 | \$17.56 | \$17.44 | \$17.92 | \$17.72 | \$17.81 | \$781.42 | \$779.57 | \$783.10 | \$733.61 | \$780.08 |
| Motor vehicles and equipment ............................. | 371 | 18.06 | 17.98 | 18.52 | 18.38 | 18.39 | 812.70 | 816.29 | 813.03 | 757.26 | 811.00 |
| Motor vehicles and car bodies | 3711 | 21.63 | 21.58 | 22.59 | 22.24 | - | 984.17 | 977.57 | 973.63 | 880.70 | - |
| Truck and bus bodies | 3713 | 15.31 | 15.04 | 16.32 | 15.96 | - | 673.64 | 681.31 | 726.24 | 702.24 | - |
| Motor vehicle parts and accessories | 3714 | 16.63 | 16.60 | 16.97 | 17.07 | - | 751.68 | 760.28 | 758.56 | 716.94 | - |
| Truck trailers ................................ | 3715 | 11.20 | 11.14 | 11.46 | 11.22 | - | 469.28 | 465.65 | 474.44 | 461.14 | - |
| Aircraft and parts | 372 | 18.86 | 18.71 | 19.04 | 18.77 | - | 843.04 | 830.72 | 845.38 | 801.48 | - |
| Aircratt ............ | 3721 | (2) | (2) | (2) | (2) | - | - | - | - | - | - |
| Aircraft engines and engine parts | 3724 | 18.58 | 18.26 | 18.79 | 18.62 | - | 837.96 | 819.87 | 834.28 | 796.94 | - |
| Aircraft parts and equipment, nec | 3728 | 16.67 | 16.56 | 16.80 | 16.59 | - | 751.82 | 743.54 | 750.96 | 711.71 | - |
| Ship and boat building and repairing .................... | 373 | 13.20 | 13.31 | 13.22 | 13.12 | - | 557.04 | 564.34 | 559.21 | 530.05 | - |
| Ship building and repairing .............................. | 3731 | 14.58 | 14.81 | 14.54 | 14.50 | - | 640.06 | 648.68 | 638.31 | 591.60 | - |
| Boat building and repairing | 3732 | 10.91 | 10.79 | 11.15 | 11.16 | - | 433.13 | 434.84 | 446.00 | 445.28 | - |
| Railroad equipment ......... | 374 | 16.81 | 16.65 | 17.43 | 16.91 | - | 744.68 | 722.61 | 763.43 | 718.68 | - |
| Guided missiles, space vehicles, and parts | 376 | 19.54 | 19.40 | 19.97 | 19.43 | - | 842.17 | 830.32 | 850.72 | 788.86 | - |
| Guided missiles and space vehicles ........ | 3761 | (2) | (2) | (2) | (2) | - | - | - | - | - | - |
| Misc. transportation equipment ......... | 379 | 11.51 | 11.50 | 12.01 | 11.89 | - | 462.70 | 468.05 | 491.21 | 473.22 | - |
| Travel trailers and campers ... | 3792 | 11.39 | 11.23 | 12.13 | 12.05 | - | 436.24 | 435.72 | 465.79 | 454.29 | - |
| Instruments and related products .......................... | 38 | 13.51 | 13.43 | 13.73 | 13.76 | 13.79 | 567.42 | 560.03 | 572.54 | 558.66 | 568.15 |
| Search and navigation equipment ........................ | 381 | 16.82 | 16.58 | 17.22 | 17.23 | - | 731.67 | 724.55 | 742.18 | 728.83 | - |
| Measuring and controlling devices | 382 | 13.53 | 13.43 | 13.74 | 13.77 | - | 566.91 | 558.69 | 572.96 | 557.69 | - |
| Environmental controls .............. | 3822 | 11.67 | 11.68 | 11.96 | 11.92 | - | 478.47 | 467.20 | 490.36 | 444.62 | - |
| Process control instruments | 3823 | 13.27 | 13.16 | 13.74 | 13.70 | - | 558.67 | 546.14 | 577.08 | 560.33 | - |
| Instruments to measure electricity | 3825 | 15.49 | 15.24 | 15.72 | 15.76 | - | 644.38 | 632.46 | 658.67 | 650.89 |  |
| Medical instruments and supplies | 384 | 12.51 | 12.37 | 12.86 | 12.84 | - | 521.67 | 508.41 | 529.83 | 512.32 | - |
| Surgical and medical instrument | 3841 | 11.85 | 11.66 | 12.10 | 12.05 | - | 496.52 | 478.06 | 500.94 | 479.59 | - |
| Surgical appliances and supplies | 3842 | 11.58 | 11.49 | 11.99 | 11.95 | - | 474.78 | 468.79 | 482.00 | 470.83 | - |
| Ophthalmic goods | 385 | 10.16 | 10.22 | 10.24 | 10.35 | - | 409.45 | 400.62 | 431.10 | 427.46 | - |
| Photographic equipment and supplies ................. | 386 | 15.93 | 16.00 | 16.00 | 16.08 | - | 689.77 | 699.20 | 680.00 | 686.62 | - |
| Watches, clocks, watchcases, and parts ............... | 387 | 9.90 | 9.90 | 10.42 | 10.47 | - | 393.03 | 397.98 | 414.72 | 386.34 | - |
| Miscellaneous manufacturing industries ................. | 39 | 10.59 | 10.52 | 10.79 | 10.76 | 10.79 | 427.84 | 422.90 | 437.00 | 423.94 | 429.44 |
| Jewelry, silverware, and plated ware | 391 | 10.98 | 10.85 | 11.16 | 11.28 | - | 438.10 | 427.49 | 445.28 | 441.05 | - |
| Jewelry, precious metal | 3911 | 11.09 | 10.98 | 11.26 | 11.40 | - | 436.95 | 424.93 | 440.27 | 435.48 | - |
| Musical instruments | 393 | 10.71 | 10.65 | 10.78 | 11.06 | - | 440.18 | 438.78 | 434.43 | 436.87 | - |
| Toys and sporting goods .......................... | 394 | 10.02 | 9.98 | 10.26 | 10.33 | - | 400.80 | 399.20 | 422.71 | 411.13 | - |
| Dolls, games, toys, and children's vehicles ......... | 3942,4 | 9.53 | 9.57 | 9.81 | 9.93 | - | 372.62 | 371.32 | 386.51 | 375.35 | - |
| Sporting and athletic goods, nec | 3949 | 10.24 | 10.16 | 10.44 | 10.48 | - | 413.70 | 411.48 | 438.48 | 425.49 | - |
| Pens, pencils, office, and art supplies | 395 | 11.09 | 11.08 | 11.27 | 11.18 | - | 448.04 | 449.85 | 437.28 | 427.08 | - |
| Costume jewelry and notions ... | 396 | 9.38 | 9.37 | 9.90 | 9.72 | - | 372.39 | 377.61 | 389.07 | 369.36 | - |
| Costume jewelry | 3961 | 8.32 | 8.24 | 8.99 | 8.85 | - | 329.47 | 328.78 | 347.01 | 331.88 | - |
| Miscellaneous manufactures | 399 | 10.92 | 10.84 | 11.06 | 10.91 | - | 445.54 | 439.02 | 450.14 | 432.04 | - |
| Signs and advertising specialties ...................... | 3993 | 11.43 | 11.24 | 11.75 | 11.53 | - | 474.35 | 461.96 | 493.50 | 473.88 | - |
| Nondurable goods ............................................. |  | 12.33 | 12.26 | 12.63 | 12.71 | 12.70 | 504.30 | 496.53 | 514.04 | 508.40 | 515.62 |
| Food and kindred products | 20 | 11.49 | 11.45 | 11.70 | 11.75 | 11.81 | 474.54 | 462.58 | 478.53 | 473.53 | 487.75 |
| Meat products | 201 | 9.35 | 9.28 | 9.52 | 9.52 | - | 378.68 | 367.49 | 380.80 | 376.99 | - |
| Meat packing plants | 2011 | 10.03 | 10.00 | 10.13 | 10.08 | - | 422.26 | 407.00 | 420.40 | 416.30 | - |
| Sausages and other prepared meats | 2013 | 10.74 | 10.66 | 11.00 | 11.16 | - | 450.01 | 435.99 | 457.60 | 455.33 | - |
| Poultry slaughtering and processing .................. | 2015 | 8.42 | 8.34 | 8.56 | 8.56 | - | 329.22 | 321.92 | 329.56 | 327.85 | - |
| Dairy products .............................. | 202 | 13.21 | 13.12 | 13.34 | 13.40 | - | 557.46 | 552.35 | 553.61 | 554.76 | - |
| Cheese, natural and processed | 2022 | 12.05 | 12.04 | 12.14 | 12.31 | - | 502.49 | 496.05 | 496.53 | 501.02 | - |
| Fluid milk | 2026 | 13.91 | 13.78 | 13.95 | 13.98 | - | 591.18 | 581.52 | 571.95 | 570.38 | - |
| Preserved fruits and vegetables .......................... | 203 | 11.02 | 11.05 | 11.34 | 11.32 | - | 456.23 | 437.58 | 461.54 | 447.14 | - |
| Canned specialties ............... | 2032 | 14.37 | 14.35 | 14.44 | 14.29 | - | 615.04 | 584.05 | 610.81 | 581.60 | - |
| Canned fruits and vegetables | 2033 | 11.81 | 12.14 | 12.49 | 12.41 | - | 492.48 | 473.46 | 498.35 | 481.51 | - |
| Frozen fruits and vegetables | 2037 | 10.27 | 10.27 | 10.57 | 10.56 | - | 413.88 | 406.69 | 436.54 | 424.51 | - |
| Grain mill products | 204 | 14.38 | 14.18 | 14.75 | 14.79 | - | 655.73 | 635.26 | 666.70 | 659.63 | - |
| Flour and other grain mill products | 2041 | 12.63 | 12.16 | 12.70 | 12.76 | - | 577.19 | 535.04 | 574.04 | 566.54 | - |
| Prepared feeds, nec .............. | 2048 | 11.32 | 11.25 | 11.59 | 11.65 | - | 499.21 | 502.88 | 505.32 | 506.78 | - |

See footnotes at end of table.

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \end{gathered}$Code | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ \text { 1998p } \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \mathrm{P} \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. <br> 1998 | $\begin{gathered} \text { Apr. } \\ \text { 1998p } \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Nondurable goods--Continued Food and kindred products-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bakery products ............................................ | 205 | 40.3 | 39.4 | 40.6 | 40.3 | - | 4.7 | 4.4 | 4.6 | 4.6 | - |
| Bread, cake, and related products $\qquad$ Cookies, crackers, and frozen bakery products, | 2051 | 40.1 | 39.6 | 40.5 | 40.4 | - | 4.7 | 4.6 | 4.5 | 5.0 | - |
| except bread | 2052,3 | 40.8 | 39.1 | 41.0 | 40.1 | - | 4.6 | 4.1 | 4.8 | 3.9 | - |
| Sugar and confectionery products ........................ | 206 | 40.7 | 39.5 | 40.9 | 39.2 | - | 4.2 | 3.3 | 3.8 | 2.7 | - |
| Raw cane sugar .............................................. | 2061 | 50.0 | 41.5 | 54.8 | 51.0 | - | 10.7 | 4.8 | 12.6 | 7.3 | - |
| Cane sugar refining ......................................... | 2062 | 47.5 | 46.8 | 45.3 | 46.5 | - | 10.4 | 9.1 | 8.9 | 7.2 | - |
| Beet sugar ..................................................... | 2063 | 41.7 | 42.7 | 42.0 | 40.5 | - | 4.0 | 4.4 | 3.5 | 4.2 | - |
| Candy and other confectionery products ............. | 2064 | 39.2 | 38.0 | 39.6 | 38.7 | - | 3.4 | 2.4 | 3.0 | 2.2 | - |
| Fats and oils .................................................... | 207 | 42.8 | 41.4 | 42.9 | 42.5 | - | 6.4 | 5.5 | 6.0 | 6.3 | - |
| Beverages ...................................................... | 208 | 43.4 | 43.1 | 42.8 | 42.9 | - | 5.4 | 5.5 | 5.2 | 5.4 | - |
| Malt beverages ............................................... | 2082 | 46.8 | 45.4 | 46.2 | 48.7 | - | 7.8 | 7.6 | 7.4 | 9.0 | - |
| Botted and canned soft drinks | 2086 | 42.8 | 43.5 | 42.5 | 42.5 | - | 5.2 | 5.8 | 5.1 | 5.3 | - |
| Misc. food and kindred products .......................... | 209 | 40.2 | 39.4 | 39.7 | 38.7 | - | 5.2 | 4.8 | 4.5 | 3.5 | - |
| Tobacco products | 21 | 38.9 | 38.4 | 37.0 | 36.9 | 38.7 | 3.1 | 2.5 | 2.4 | 1.8 | - |
| Cigarettes ....................................................... | 211 | 38.6 | 38.3 | 35.3 | 35.8 | - | 3.3 | 2.7 | 1.9 | 1.4 | - |
| Textile mill products ............................................ | 22 | 41.4 | 41.4 | 41.2 | 40.1 | 41.1 | 4.6 | 4.5 | 4.4 | 4.0 | - |
| Broadwoven fabric mills, cotton ........................... | 221 | 41.8 | 42.2 | 42.5 | 41.1 | - | 5.5 | 5.6 | 5.5 | 4.7 | - |
| Broadwoven fabric mills, synthetics ...................... | 222 | 41.6 | 41.2 | 40.8 | 39.7 | - | 5.2 | 4.8 | 4.6 | 4.1 | - |
| Broadwoven fabric mills, wool ............................. | 223 | 41.5 | 41.4 | 40.0 | 38.5 | - | 5.4 | 5.3 | 4.5 | 3.3 | - |
| Narrow fabric mills ............. | 224 | 40.3 | 40.6 | 40.6 | 39.9 | - | 3.1 | 3.3 | 3.2 | 2.6 | - |
| Knitting mills | 225 | 40.1 | 40.2 | 39.8 | 38.4 | - | 3.6 | 3.5 | 3.4 | 3.0 | - |
| Women's hosiery, except socks ........................ | 2251 | 38.5 | 37.8 | 37.5 | 37.1 | - | 2.7 | 2.6 | 1.5 | 1.4 | - |
| Hosiery, nec ...... | 2252 | 38.1 | 37.9 | 38.0 | 36.3 | - | 3.1 | 3.1 | 2.9 | 2.7 | - |
| Knit outerwear mills | 2253 | 40.5 | 41.0 | 40.4 | 39.3 | - | 3.3 | 2.9 | 3.2 | 3.2 | - |
| Knit underwear mills ........................................ | 2254 | 39.0 | 38.9 | 38.2 | 34.6 | - | 2.6 | 2.5 | 1.7 | 0.5 | - |
| Weft knit fabric mills ......................................... | 2257 | 41.6 | 43.4 | 41.0 | 40.0 | - | 5.4 | 5.9 | 5.0 | 4.8 | - |
| Textile finishing, except wool ............................... | 226 | 42.7 | 43.2 | 41.9 | 40.6 | - | 5.5 | 5.9 | 5.1 | 4.4 | - |
| Finishing plants, cotton .................................... | 2261 | 43.2 | 43.3 | 41.9 | 39.9 | - | 5.9 | 6.0 | 5.0 | 4.2 | - |
| Finishing plants, synthetics ............................... | 2262 | 42.2 | 42.7 | 41.8 | 41.2 | - | 5.1 | 5.6 | 4.6 | 4.0 | - |
| Carpets and rugs .............................................. | 227 | 41.8 | 40.5 | 42.8 | 41.8 | - | 5.1 | 4.3 | 5.4 | 5.2 | - |
| Yarn and thread mills ......................................... | 228 | 41.7 | 41.6 | 41.3 | 41.1 | - | 4.7 | 4.5 | 4.3 | 4.1 | - |
| Yam spinning mills ......................................... | 2281 | 42.4 | 42.4 | 42.4 | 42.4 | - | 5.0 | 4.8 | 4.7 | 4.7 | - |
| Throwing and winding mills .............................. | 2282 | 38.3 | 37.8 | 36.6 | 36.6 | - | 3.2 | 3.2 | 2.8 | 2.2 | - |
| Miscellaneous textile goods ................................ | 229 | 42.6 | 42.8 | 42.3 | 41.3 | - | 4.9 | 4.8 | 4.6 | 4.2 | - |
| Apparel and other textile products | 23 | 37.3 | 37.1 | 37.2 | 36.5 | 37.5 | 2.2 | 2.0 | 2.1 | 1.7 | - |
| Men's and boys' suits and coats | 231 | 37.4 | 36.6 | 37.3 | 36.8 | - | 1.4 | 1.1 | 0.8 | 0.6 | - |
| Men's and boys' furnishings ............................... | 232 | 36.7 | 36.6 | 36.3 | 35.8 | - | 1.5 | 1.4 | 1.4 | 1.4 | - |
| Men's and boys' shirts ..................................... | 2321 | 35.9 | 35.6 | 36.3 | 35.3 | - | 1.5 | 1.3 | 1.5 | 1.1 | - |
| Men's and boys' trousers and slacks .................. | 2325 | 36.2 | 35.8 | 34.9 | 34.2 | - | 1.3 | 1.2 | 1.1 | 1.1 | - |
| Men's and boys' work clothing .......................... | 2326 | 37.2 | 37.0 | 37.4 | 36.6 | - | 1.6 | 1.7 | 1.3 | 1.5 | - |
| Women's and misses' outerwear .......................... | 233 | 35.9 | 35.8 | 36.5 | 35.5 | - | 1.7 | 1.5 | 1.8 | 1.2 | - |
| Women's and misses' blouses and shirts ............ | 2331 | 35.7 | 35.5 | 34.8 | 34.6 | - | 1.6 | 1.4 | 1.6 | 1.4 | - |
| Women's, juniors', and misses' dresses .............. | 2335 | 37.2 | 37.1 | 38.3 | 37.3 | - | 2.2 | 2.4 | 2.4 | 2.0 | - |
| Women's and misses' suits and coats ................ | 2337 | 36.4 | 34.3 | 36.3 | 36.2 | - | 1.8 | 1.3 | 1.4 | 0.9 | - |
| Women's and misses' outerwear, nec ................. | 2339 | 35.6 | 35.7 | 36.3 | 35.1 | - | 1.6 | 1.3 | 1.7 | 1.1 | - |
| Women's and children's undergarments ............... | 234 | 37.4 | 36.7 | 36.5 | 34.9 | - | 2.2 | 2.2 | 1.2 | 1.1 | - |
| Women's and children's underwear ................... | 2341 | 37.1 | 35.5 | 36.5 | 34.5 | - | 1.8 | 1.6 | 1.1 | 1.0 | - |
| Brassieres, girdles, and allied garments | 2342 | 38.3 | 40.0 | 36.5 | 36.3 | - | 3.1 | 3.8 | 1.7 | 1.4 | - |
| Girls' and children's outerwear ............................ | 236 | 37.3 | 37.0 | 33.8 | 35.3 | - | 2.8 | 2.6 | 2.6 | 2.5 | - |
| Girls' and children's dresses and blouses ........... | 2361 | 37.3 | 37.3 | 33.5 | 34.2 | - | 3.1 | 3.2 | 3.4 | 3.1 | - |
| Misc. apparel and accessories ............................ | 238 | 37.8 | 37.8 | 37.0 | 36.3 | - | 1.8 | 1.8 | 1.8 | 1.5 | - |
| Misc. fabricated textile products .......................... | 239 | 39.4 | 39.3 | 39.2 | 38.4 | - | 3.6 | 3.3 | 3.4 | 2.8 | - |
| Curtains and draperies ..................................... | 2391 | 37.0 | 37.8 | 35.6 | 36.2 | - | 1.4 | 1.5 | 1.1 | 1.1 | _ |
| House furnishings, nec .................................... | 2392 | 39.5 | 38.2 | 40.0 | 39.1 | - | 3.8 | 3.1 | 3.9 | 2.3 | - |
| Automotive and apparel trimmings .................... | 2396 | 40.3 | 40.2 | 39.6 | 38.5 | - | 4.1 | 3.9 | 3.7 | 3.1 | - |
| Paper and allied products .................................... | 26 | 43.7 | 43.4 | 43.1 | 42.5 | 43.4 | 5.7 | 5.5 | 5.2 | 5.0 | - |
| Paper mills ...................................................... | 262 | 45.2 | 45.3 | 45.5 | 45.7 | - | 6.6 | 6.7 | 6.7 | 7.0 | - |
| Paperboard mills .............................................. | 263 | 44.5 | 43.7 | 45.5 | 44.6 | - | 7.2 | 7.0 | 7.1 | 7.6 | - |

See footnotes at end of table.

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

B-15. 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 hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ 1998^{p} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \mathrm{P} \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | Apr. 1998P | $\begin{gathered} \text { May } \\ 1998 \mathrm{P} \end{gathered}$ |
| Nondurable goods-Continued <br> Food and kindred products-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bakery products ............................................. | 205 | \$12.46 | \$12.60 | \$12.60 | \$12.77 | - | \$502.14 | \$496.44 | \$511.56 | \$514.63 | - |
| Bread, cake, and related products ..................... | 2051 | 12.58 | 12.59 | 12.72 | 12.81 | - | 504.46 | 498.56 | 515.16 | 517.52 | - |
| Cookies, crackers, and frozen bakery products, except bread $\qquad$ | 2052,3 | 12.26 | 12.62 | 12.39 | 12.69 | - | 500.21 | 493.44 | 507.99 | 508.87 | - |
| Sugar and confectionery products ....................... | 206 | 12.73 | 12.85 | 12.99 | 13.09 | - | 518.11 | 507.58 | 531.29 | 513.13 | - |
| Raw cane sugar ............................................. | 2061 | 11.88 | 12.11 | 12.14 | 12.08 | - | 594.00 | 502.57 | 665.27 | 616.08 | - |
| Cane sugar refining | 2062 | 17.83 | 17.56 | 18.29 | 17.77 | - | 846.93 | 821.81 | 828.54 | 826.31 | - |
| Beet sugar ............ | 2063 | 13.45 | 14.12 | 14.13 | 14.60 | - | 560.87 | 602.92 | 593.46 | 591.30 | - |
| Candy and other confectionery products | 2064 | 11.79 | 11.83 | 12.07 | 12.16 | - | 462.17 | 449.54 | 477.97 | 470.59 | - |
| Fats and oils ........................................ | 207 | 12.65 | 12.58 | 12.66 | 12.86 | - | 541.42 | 520.81 | 543.11 | 546.55 | - |
| Beverages | 208 | 16.00 | 15.91 | 16.05 | 16.31 | - | 694.40 | 685.72 | 686.94 | 699.70 | - |
| Malt beverages | 2082 | 22.07 | 21.88 | 22.20 | 22.80 | - | 1,032.88 | 993.35 | 1,025.64 | 1,110.36 | - |
| Bottled and canned soft drinks | 2086 | 13.38 | 13.41 | 13.42 | 13.48 | - | 572.66 | 583.34 | 570.35 | 572.90 | - |
| Misc. food and kindred products .......................... | 209 | 10.25 | 10.11 | 10.51 | 10.53 | - | 412.05 | 398.33 | 417.25 | 407.51 | - |
| Tobacco products | 21 | 19.27 | 20.34 | 18.54 | 18.79 | \$20.01 | 749.60 | 781.06 | 685.98 | 693.35 | \$774.39 |
| Cigarettes | 211 | 24.76 | 24.36 | 24.24 | 23.93 | - | 955.74 | 932.99 | 855.67 | 856.69 | - |
| Textile mill products | 22 | 10.03 | 9.95 | 10.29 | 10.39 | 10.36 | 415.24 | 411.93 | 423.95 | 416.64 | 425.80 |
| Broadwoven fabric mills, cotton | 221 | 10.44 | 10.35 | 10.80 | 10.82 | - | 436.39 | 436.77 | 459.00 | 444.70 | - |
| Broadwoven fabric mills, synthetics | 222 | 10.98 | 10.92 | 11.24 | 11.16 | - | 456.77 | 449.90 | 458.59 | 443.05 | - |
| Broadwoven fabric mills, wool ............................ | 223 | 10.50 | 10.41 | 10.78 | 10.73 | - | 435.75 | 430.97 | 431.20 | 413.11 | - |
| Narrow fabric mills | 224 | 9.19 | 9.16 | 9.47 | 9.50 | - | 370.36 | 371.90 | 384.48 | 379.05 | - |
| Knitting mills | 225 | 9.14 | 9.12 | 9.38 | 9.52 | - | 366.51 | 366.62 | 373.32 | 365.57 | - |
| Women's hosiery, except socks | 2251 | 8.52 | 8.44 | 8.61 | 8.67 | - | 328.02 | 319.03 | 322.88 | 321.66 | - |
| Hosiery, nec ........ | 2252 | 9.09 | 9.06 | 9.41 | 9.42 | - | 346.33 | 343.37 | 357.58 | 341.95 | - |
| Knit outerwear mills | 2253 | 8.53 | 8.40 | 8.74 | 9.03 | - | 345.47 | 344.40 | 353.10 | 354.88 | - |
| Knit underwear mills | 2254 | 9.25 | 9.10 | 9.59 | 9.95 | - | 360.75 | 353.99 | 366.34 | 344.27 | - |
| Weit knit fabric mills | 2257 | 9.97 | 10.07 | 10.25 | 10.24 | - | 414.75 | 437.04 | 420.25 | 409.60 | - |
| Textile finishing, except wool | 226 | 10.27 | 10.20 | 10.55 | 10.62 | - | 438.53 | 440.64 | 442.05 | 431.17 | - |
| Finishing plants, cotton . | 2261 | 10.19 | 10.10 | 10.39 | 10.52 | - | 440.21 | 437.33 | 435.34 | 419.75 | - |
| Finishing plants, synthetics | 2262 | 10.75 | 10.63 | 11.05 | 11.03 | - | 453.65 | 453.90 | 461.89 | 454.44 | - |
| Carpets and rugs ...... | 227 | 10.02 | 9.85 | 10.25 | 10.65 | - | 418.84 | 398.93 | 438.70 | 445.17 | - |
| Yarn and thread mills | 228 | 9.73 | 9.63 | 9.92 | 9.94 | - | 405.74 | 400.61 | 409.70 | 408.53 | - |
| Yarn spinning mills | 2281 | 9.74 | 9.62 | 9.96 | 9.91 | - | 412.98 | 407.89 | 422.30 | 420.18 | - |
| Throwing and winding mills .............................. | 2282 | 9.86 | 9.82 | 9.94 | 10.08 | - | 377.64 | 371.20 | 363.80 | 368.93 | - |
| Miscellaneous textile goods ................................ | 229 | 14.57 | 14.53 | 11.78 | 11.94 | - | 492.88 | 493.48 | 498.29 | 493.12 | - |
|  | 23 | 8.25 | 8.20 | 8.43 | 8.48 | 8.49 | 307.73 | 304.22 | 313.60 | 309.52 | 318.38 |
| Men's and boys' suits and coats | 231 | 8.40 | 8.38 | 8.59 | 8.64 | - | 314.16 | 306.71 | 320.41 | 317.95 | - |
| Men's and boys' furnishings ............................... | 232 | 7.73 | 7.68 | 7.93 | 8.05 | - | 283.69 | 281.09 | 287.86 | 288.19 | - |
| Men's and boys' shirts | 2321 | 7.59 | 7.54 | 7.79 | 7.91 | - | 272.48 | 268.42 | 282.78 | 279.22 | - |
| Men's and boys' trousers and slacks .................. | 2325 | 7.85 | 7.79 | 8.12 | 8.30 | - | 284.17 | 278.88 | 283.39 | 283.86 | - |
| Men's and boys' work clothing ......... | 2326 | 7.64 | 7.58 | 7.76 | 7.79 | - | 284.29 | 280.46 | 290.22 | 285.11 | - |
| Women's and misses' outerwear ......................... | 233 | 7.85 | 7.72 | 8.06 | 8.11 | - | 281.82 | 276.38 | 294.19 | 287.91 | - |
| Women's and misses' blouses and shirts ............ | 2331 | 7.01 | 6.82 | 7.26 | 7.23 | - | 250.26 | 242.11 | 252.65 | 250.16 | - |
| Women's, juniors', and misses' dresses .............. | 2335 | 8.87 | 8.73 | 9.19 | 9.29 | - | 329.96 | 323.88 | 351.98 | 346.52 | - |
| Women's and misses' suits and coats ... | 2337 | 7.97 | 7.93 | 8.03 | 7.92 | - | 290.11 | 272.00 | 291.49 | 286.70 | - |
| Women's and misses' outerwear, nec ................. | 2339 | 7.69 | 7.58 | 7.88 | 7.95 | - | 273.76 | 270.61 | 286.04 | 279.05 | - |
| Women's and children's undergarments | 234 | 7.84 | 7.72 | 8.09 | 8.09 | - | 293.22 | 283.32 | 295.29 | 282.34 | - |
| Women's and children's underwear .... | 2341 | 7.69 | 7.58 | 7.87 | 7.90 | - | 285.30 | 269.09 | 287.26 | 272.55 | - |
| Brassieres, girdles, and allied garments .. | 2342 | 8.27 | 8.09 | 8.75 | 8.66 | - | 316.74 | 323.60 | 319.38 | 314.36 | - |
| Girls' and children's outerwear ................. | 236 | 7.54 | 7.50 | 7.88 | 7.95 | - | 281.24 | 277.50 | 266.34 | 280.64 | - |
| Giris' and children's dresses and blouses | 2361 | 7.32 | 7.31 | 7.49 | 7.65 | - | 273.04 | 272.66 | 250.92 | 261.63 | - |
| Misc. apparel and accessories ........................... | 238 | 7.82 | 7.78 | 8.14 | 8.21 | - | 295.60 | 294.08 | 301.18 | 298.02 | - |
| Misc. fabricated textile products .......................... | 239 | 9.32 | 9.39 | 9.30 | 9.28 | - | 367.21 | 369.03 | 364.56 | 356.35 | - |
| Curtains and draperies | 2391 | 8.07 | 8.04 | 8.21 | 8.19 | - | 298.59 | 303.91 | 292.28 | 296.48 | - |
| House furnishings, nec .................................... | 2392 | 8.73 | 8.58 | 8.96 | 8.85 | - | 344.84 | 327.76 | 358.40 | 346.04 | - |
| Automotive and apparel trimmings ..................... | 2396 | 11.27 | 11.53 | 11.01 | 10.78 | - | 454.18 | 463.51 | 436.00 | 415.03 | - |
| Paper and allied products .................................... | 26 | 15.04 | 14.98 | 15.27 | 15.47 | 15.51 | 657.25 | 650.13 | 658.14 | 657.48 | 673.13 |
| Paper mills | 262 | 19.08 | 18.92 | 19.45 | 19.64 | - | 862.42 | 857.08 | 884.98 | 897.55 | - |
| Paperboard mills .............................................. | 263 | 18.79 | 18.94 | 19.18 | 19.58 | - | 836.16 | 827.68 | 872.69 | 873.27 | - |

See footnotes at end of table.

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

B-15. 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 weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { Mar. } \\ 1998 \end{gathered}$ | $\begin{gathered} \text { Apr. } \\ 1998 \mathrm{p} \end{gathered}$ | $\begin{gathered} \text { May } \\ \text { 1998p } \end{gathered}$ | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ \text { 1998p } \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \mathrm{p} \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Paper and ailied products-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Paperboard containers and boxes ....................... | 265 | 43.5 | 43.1 | 42.0 | 40.9 | - | 5.7 | 5.4 | 4.6 | 4.1 | - |
| Corrugated and solid fiber boxes ....................... | 2653 | 43.9 | 43.4 | 42.4 | 41.1 | - | 6.0 | 5.6 | 4.8 | 4.3 | - |
| Sanitary food containers .................................. | 2656 | 42.5 | 42.3 | 41.9 | 41.8 | - | 4.9 | 5.1 | 4.3 | 4.4 | - |
| Folding paperboard boxes ................................ | 2657 | 43.6 | 43.0 | 41.7 | 39.7 | - | 5.9 | 5.6 | 5.0 | 3.7 | - |
| Misc. converted paper products | 267 | 42.5 | 42.2 | 42.0 | 41.3 | - | 4.8 | 4.4 | 4.3 | 3.9 | - |
| Paper, coated and laminated, nec ..................... | 2672 | 43.7 | 43.6 | 43.1 | 42.3 | - | 4.4 | 4.3 | 4.3 | 4.0 | - |
| Bags: plastics, laminated, and coated ................ | 2673 | 42.4 | 41.9 | 41.7 | 41.5 | - | 5.0 | 4.6 | 4.4 | 4.3 | - |
| Envelopes ..................................................... | 2677 | 41.9 | 42.0 | 40.8 | 40.8 | - | 4.2 | 4.1 | 3.7 | 3.1 | - |
| Printing and publishing ........................................ | 27 | 38.5 | 38.3 | 38.4 | 37.8 | 38.0 | 3.4 | 3.3 | 3.3 | 2.9 | - |
| Newspapers ..................................................... | 271 | 33.2 | 33.0 | 33.0 | 32.9 | - | 1.4 | 1.3 | 1.2 | 1.3 | - |
| Periodicals | 272 | 37.0 | 37.0 | 36.2 | 35.7 | - | 2.8 | 2.9 | 1.8 | 1.8 | - |
| Books .. | 273 | 39.4 | 39.6 | 39.2 | 39.1 | - | 3.9 | 4.2 | 3.6 | 3.3 | - |
| Book publishing | 2731 | 37.3 | 36.8 | 36.7 | 37.5 | - | 2.8 | 3.3 | 2.8 | 2.9 | - |
| Book printing . | 2732 | 41.9 | 42.9 | 41.9 | 40.8 | - | 5.2 | 5.3 | 4.6 | 3.7 | - |
| Miscellaneous publishing ................................... | 274 | 36.4 | 36.4 | 36.1 | 36.4 | - | 2.4 | 2.3 | 2.4 | 2.6 | - |
| Commercial printing ........................................... | 275 | 40.1 | 39.7 | 40.4 | 39.5 | - | 4.1 | 4.0 | 4.2 | 3.6 | - |
| Commercial printing, lithographic ...................... | 2752 | 40.0 | 39.7 | 40.4 | 39.5 | - | 4.0 | 4.0 | 4.3 | 3.6 | - |
| Commercial printing, nec .................................. | 2759 | 40.1 | 39.5 | 40.3 | 39.3 | - | 4.0 | 3.7 | 4.0 | 3.5 | - |
| Manitold business forms .................................... | 276 | 41.9 | 40.7 | 41.7 | 40.2 | - | 4.0 | 3.2 | 3.7 | 2.3 | - |
| Blankbooks and bookbinding | 278 | 39.7 | 39.7 | 38.9 | 38.5 | - | 2.9 | 2.8 | 2.8 | 2.2 | - |
| Printing trade services ......... | 279 | 39.6 | 39.5 | 40.5 | 39.7 | - | 4.3 | 4.1 | 4.7 | 4.2 | - |
| Chemicals and allied products .............................. | 28 | 43.2 | 43.0 | 43.4 | 42.8 | 42.0 | 5.2 | 4.9 | 5.3 | 4.8 | - |
| Industrial inorganic chemicals ............................ | 281 | 46.6 | 46.8 | 46.1 | 46.0 | - | 6.1 | 5.9 | 5.9 | 6.7 | - |
| Industrial inorganic chemicals, nec ..................... | 2819 | 46.3 | 47.3 | 46.2 | 45.4 | - | 5.9 | 5.7 | 6.0 | 6.7 | - |
| Plastics materiais and synthetics ......................... | 282 | 43.5 | 43.3 | 44.0 | 44.2 | - | 5.5 | 5.4 | 5.5 | 5.7 | - |
| Plastics materials and resins ............................ | 2821 | 44.9 | 44.7 | 44.7 | 44.3 | - | 5.6 | 5.5 | 5.5 | 5.5 | - |
| Organic fibers, noncellulosic | 2824 | 42.2 | 42.2 | 43.9 | 45.5 | - | 5.1 | 5.1 | 5.1 | 5.9 | - |
| Drugs ................................. | 283 | 41.6 | 41.5 | 42.0 | 40.8 | - | 4.9 | 4.5 | 5.2 | 3.8 | - |
| Pharmaceutical preparations | 2834 | 41.8 | 41.6 | 42.3 | 40.7 | - | 4.7 | 4.3 | 5.2 | 3.4 | - |
| Soap, cleaners, and toilet goods ......................... | 284 | 41.2 | 40.5 | 42.0 | 40.5 | - | 3.5 | 2.9 | 3.8 | 2.9 | - |
| Soap and other detergents ............................... | 2841 | 42.7 | 41.7 | 43.7 | 42.0 | - | 4.3 | 3.2 | 4.9 | 4.2 | - |
| Polishing, sanitation, and finishing preparations .. | 2842,3 | 41.3 | 40.8 | 41.0 | 40.3 | - | 3.5 | 3.3 | 3.7 | 3.2 | - |
| Toilet preparations ........................................... | 2844 | 40.5 | 39.9 | 41.7 | 40.0 | - | 3.2 | 2.5 | 3.3 | 2.2 | - |
| Paints and allied products ................................. | 285 | 43.0 | 42.7 | 43.5 | 41.8 | - | 4.8 | 5.2 | 4.9 | 4.0 | - |
| Industrial organic chemicals ................................ | 286 | 44.6 | 44.5 | 44.1 | 44.3 | - | 6.2 | 5.9 | 6.2 | 6.1 | - |
| Cyclic crudes and intermediates ........................ | 2865 | 44.9 | 44.9 | 43.2 | 41.6 | - | 6.2 | 6.3 | 5.1 | 4.1 | _ |
| Industrial organic chemicals, nec ....................... | 2869 | 44.6 | 44.4 | 44.3 | 44.8 | - | 6.2 | 5.7 | 6.4 | 6.6 | - |
| Agricultural chemicals ....................................... | 287 | 45.0 | 45.2 | 45.9 | 45.6 | - | 6.3 | 6.4 | 7.5 | 7.1 | - |
| Miscellaneous chemical products ........................ | 289 | 43.5 | 43.0 | 43.0 | 42.2 | - | 5.2 | 5.0 | 4.7 | 4.1 | - |
| Petroleum and coal products | 29 | 43.1 | 42.4 | 43.2 | 42.9 | 42.4 | 6.2 | 5.9 | 6.4 | 6.2 | - |
| Petroleum refining | 291 | 43.0 | 42.2 | 43.3 | 42.6 | - | 5.5 | 5.3 | 6.3 | 5.8 | - |
| Asphalt paving and roofing materials ................... | 295 | 43.7 | 43.2 | 43.0 | 44.2 | - | 8.4 | 7.8 | 7.1 | 7.5 | - |
| Rubber and misc. plastics products ....................... | 30 | 41.8 | 41.7 | 41.5 | 40.9 | 41.8 | 4.6 | 4.4 | 4.4 | 4.0 | - |
| Tires and inner tubes ......................................... | 301 | 43.9 | 43.5 | 43.0 | 43.1 | - | 6.3 | 6.2 | 6.0 | 6.2 | - |
| Rubber and plastics footwear ............................. | 302 | 41.5 | 41.9 | 41.9 | 38.7 | - | 3.1 | 2.8 | 3.4 | 4.2 | - |
| Hose, belting, gaskets, and packing ..................... | 305 | 42.8 | 42.7 | 41.6 | 40.7 | - | 5.0 | 5.0 | 4.5 | 3.8 | - |
| Rubber and plastics hose and beiting ................ | 3052 | 43.8 | 44.2 | 43.5 | 41.9 | - | 5.7 | 6.1 | 5.4 | 4.6 | - |
| Fabricated rubber products, nec .......................... | 306 | 42.5 | 42.2 | 42.5 | 40.8 | - | 4.7 | 4.4 | 4.6 | 3.4 | - |
| Miscellaneous plastics products, nec ................... | 308 | 41.4 | 41.4 | 41.2 | 40.8 | - | 4.3 | 4.2 | 4.2 | 3.9 | - |
| Leather and leather products ................................. | 31 | 38.4 | 38.1 | 37.7 | 36.7 | 37.9 | 2.2 | 2.0 | 2.3 | 1.7 | - |
| Leather tanning and finishing ............................. | 311 | 42.2 | 42.2 | 42.3 | 40.5 | - | 5.2 | 5.2 | 5.1 | 3.8 | - |
| Footwear, except rubber .................................... | 314 | 37.2 | 36.9 | 36.1 | 35.2 | - | 1.6 | 1.3 | 1.8 | 1.3 | - |
| Men's footwear, except athletic ......................... | 3143 | 37.4 | 36.9 | 35.7 | 35.0 | - | 1.8 | 1.2 | 1.8 | 1.1 | - |
| Women's footwear, except athletic ..................... | 3144 | 37.1 | 37.1 | 37.1 | 35.9 | - | 1.0 | 1.3 | 2.1 | 1.7 | - |
| Luggage ......................................................... | 316 | 38.9 | 38.1 | 36.9 | 37.1 | - | 2.3 | 2.7 | 1.4 | 0.9 | - |
| Handbags and personal leather goods ................. | 317 | 38.5 | 38.0 | 37.6 | 37.3 | - | 1.7 | 1.8 | 1.8 | 1.0 | - |
| Service-producing ................................................. |  | 32.9 | 32.6 | 32.9 | 32.6 | 32.8 | - | - | - | - | - |
| Transportation and public utilities ......................... |  | 39.7 | 39.3 | 39.4 | 39.1 | 39.7 | - | - | - | - | - |

See footnotes at end of table.

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

B-15. 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 hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. 1997 | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 \mathrm{p} \end{gathered}$ |
| Nondurable goods-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Paperboard containers and boxes ....................... | 265 | \$12.80 | \$12.70 | \$12.97 | \$13.05 | - | \$556.80 | \$547.37 | \$544.74 | \$533.75 | - |
| Corrugated and solid fiber boxes ........................ | 2653 | 12.79 | 12.66 | 12.92 | 13.02 | - | 561.48 | 549.44 | 547.81 | 535.12 |  |
| Sanitary food containers ........ | 2656 | 12.84 | 12.80 | 13.18 | 13.38 | - | 545.70 | 541.44 | 552.24 | 559.28 | - |
| Folding paperboard boxes ................................ | 2657 | 13.56 | 13.52 | 13.69 | 13.69 | - | 591.22 | 581.36 | 570.87 | 543.49 | - |
| Misc. converted paper products | 267 | 13.14 | 13.08 | 13.21 | 13.34 | - | 558.45 | 551.98 | 554.82 | 550.94 | - |
| Paper, coated and laminated, nec .................... | 2672 | 15.02 | 15.01 | 15.26 | 15.39 | - | 656.37 | 654.44 | 657.71 | 651.00 | - |
| Bags: plastics, laminated, and coated ................ | 2673 | 11.86 | 11.91 | 12.03 | 12.28 | - | 502.86 | 499.03 | 501.65 | 509.62 | - |
| Envelopes ..................................................... | 2677 | 11.92 | 11.84 | 12.20 | 12.14 | - | 499.45 | 497.28 | 497.76 | 495.31 | - |
| Printing and publishing | 27 | 13.05 | 12.98 | 13.36 | 13.32 | \$13.36 | 502.43 | 497.13 | 513.02 | 503.50 | \$507.68 |
| Newspapers ............. | 271 | 12.90 | 12.83 | 13.05 | 13.14 | - | 428.28 | 423.39 | 430.65 | 432.31 | - |
| Periodicals | 272 | 14.40 | 14.25 | 14.59 | 14.56 | - | 532.80 | 527.25 | 528.16 | 519.79 | - |
| Books | 273 | 12.31 | 12.32 | 12.47 | 12.35 | - | 485.01 | 487.87 | 488.82 | 482.89 | - |
| Book publishing | 2731 | 11.79 | 11.98 | 11.88 | 11.80 | - | 439.77 | 440.86 | 436.00 | 442.50 |  |
| Book printing .... | 2732 | 12.87 | 12.66 | 13.06 | 12.93 | - | 539.25 | 543.11 | 547.21 | 527.54 | - |
| Miscellaneous publishing | 274 | 12.77 | 12.63 | 12.88 | 13.05 | - | 464.83 | 459.73 | 464.97 | 475.02 | - |
| Commercial printing . | 275 | 13.28 | 13.22 | 13.63 | 13.58 | - | 532.53 | 524.83 | 550.65 | 536.41 | - |
| Commercial printing, lithographic | 2752 | 13.53 | 13.54 | 13.90 | 13.79 | - | 541.20 | 537.54 | 561.56 | 544.71 | - |
| Cornmercial printing, nec ............ | 2759 | 12.59 | 12.44 | 12.87 | 12.91 | - | 504.86 | 491.38 | 518.66 | 507.36 | - |
| Manifold business forms | 276 | 13.81 | 13.55 | 14.02 | 13.93 | - | 578.64 | 551.49 | 584.63 | 559.99 | - |
| Blankbooks and bookbinding | 278 | 10.19 | 10.18 | 10.53 | 10.37 | - | 404.54 | 404.15 | 409.62 | 399.25 |  |
| Printing trade services ....................................... | 279 | 16.19 | 16.00 | 16.93 | 16.86 | - | 641.12 | 632.00 | 685.67 | 669.34 | - |
| Chemicals and allied products | 28 | 16.58 | 16.42 | 16.97 | 17.13 | 17.03 | 716.26 | 706.06 | 736.50 | 733.16 | 715.26 |
| Industrial inorganic chemicals | 281 | 18.56 | 18.51 | 19.37 | 19.77 | - | 864.90 | 866.27 | 892.96 | 909.42 | - |
| industrial inorganic chemicals, nec | 2819 | 18.82 | 18.79 | 19.82 | 20.32 | - | 871.37 | 888.77 | 915.68 | 922.53 | - |
| Plastics materials and synthetics | 282 | 17.42 | 17.17 | 17.69 | 17.87 | - | 757.77 | 743.46 | 778.36 | 789.85 |  |
| Plastics rnaterials and resins. | 2821 | 19.39 | 19.24 | 19.73 | 20.04 | - | 870.61 | 860.03 | 881.93 | 887.77 | - |
| Organic fibers, noncellulosic | 2824 | 14.86 | 14.68 | 15.04 | 15.22 | - | 627.09 | 619.50 | 660.26 | 692.51 | - |
| Drugs .............................. | 283 | 16.39 | 16.21 | 16.82 | 16.89 | - | 681.82 | 672.72 | 706.44 | 689.11 | - |
| Pharmaceutical preparations | 2834 | 16.22 | 16.06 | 16.75 | 16.80 | - | 678.00 | 668.10 | 708.53 | 683.76 | - |
| Soap, cleaners, and toilet goods | 284 | 13.28 | 13.15 | 13.71 | 13.74 | - | 547.14 | 532.58 | 575.82 | 556.47 | - |
| Soap and other detergents | 2841 | 16.78 | 16.28 | 17.77 | 17.45 | - | 716.51 | 678.88 | 776.55 | 732.90 | - |
| Polishing, sanitation, and finishing preparations .. | 2842,3 | 12.75 | 12.64 | 13.23 | 13.41 | - | 526.58 | 515.71 | 542.43 | 540.42 | - |
| Toilet preparations | 2844 | 11.89 | 11.89 | 12.07 | 12.16 | - | 481.55 | 474.41 | 503.32 | 486.40 | - |
| Paints and allied products .................................. | 285 | 14.06 | 14.05 | 14.48 | 14.19 | - | 604.58 | 599.94 | 629.88 | 593.14 | $\sim$ |
| Industrial organic chernicals | 286 | 19.86 | 19.72 | 20.31 | 20.49 | - | 885.76 | 877.54 | 895.67 | 907.71 | - |
| Cyclic crudes and intermediates | 2865 | 19.95 | 19.69 | 20.15 | 20.10 | - | 895.76 | 884.08 | 870.48 | 836.16 | - |
| Industrial organic chemicals, nec | 2869 | 19.97 | 19.85 | 20.47 | 20.71 | - | 890.66 | 881.34 | 906.82 | 927.81 | - |
| Agricultural chemicals | 287 | 16.60 | 16.04 | 16.64 | 16.77 | - | 747.00 | 725.01 | 763.78 | 764.71 | - |
| Miscellaneous chemical products ........................ | 289 | 15.05 | 14.96 | 15.25 | 15.30 | - | 654.68 | 643.28 | 655.75 | 645.66 | - |
| Petroleum and coal products ............................... | 29 | 20.18 | 19.93 | 21.16 | 20.99 | 20.52 | 869.76 | 845.03 | 914.11 | 900.47 | 870.05 |
| Petroleum refining ........................................... | 291 | 22.52 | 22.27 | 23.76 | 23.77 | - | 968.36 | 939.79 | 1,028.81 | 1,012.60 | - |
| Asphalt paving and roofing materials ................... | 295 | 15.02 | 14.55 | 15.00 | 14.95 | - | 656.37 | 628.56 | 645.00 | 660.79 | - |
| Rubber and misc. plastics products | 30 | 11.57 | 11.53 | 11.78 | 11.84 | 11.85 | 483.63 | 480.80 | 488.87 | 484.26 | 495.33 |
| Tires and inner tubes | 301 | 18.59 | 18.70 | 18.86 | 19.11 | - | 816.10 | 813.45 | 810.98 | 823.64 | - |
| Rubber and plastics footwear | 302 | 9.71 | 9.69 | 9.95 | 10.00 | - | 402.97 | 406.01 | 416.91 | 387.00 | - |
| Hose, belting, gaskets, and packing | 305 | 11.69 | 11.80 | 11.74 | 11.80 | - | 500.33 | 503.86 | 488.38 | 480.26 | - |
| Rubber and plastics hose and belting | 3052 | 11.85 | 11.99 | 11.89 | 11.88 | - | 519.03 | 529.96 | 517.22 | 497.77 | - |
| Fabricated rubber products, nec ...... | 306 | 11.23 | 11.18 | 11.46 | 11.43 | - | 477.28 | 471.80 | 487.05 | 466.34 | - |
| Miscellaneous plastics products, nec ................... | 308 | 10.88 | 10.81 | 11.11 | 11.14 | - | 450.43 | 447.53 | 457.73 | 454.51 | - |
| Leather and leather products ................................ | 31 | 8.98 | 8.90 | 9.32 | 9.32 | 9.42 | 344.83 | 339.09 | 351.36 | 342.04 | 357.02 |
| Leather tanning and finishing ............................. | 311 | 11.88 | 11.88 | 11.85 | 11.99 | - | 501.34 | 501.34 | 501.26 | 485.60 | - |
| Footwear, except rubber ..................................... | 314 | 8.49 | 8.34 | 8.89 | 8.81 | - | 315.83 | 307.75 | 320.93 | 310.11 | - |
| Men's footwear, except athletic ......................... | 3143 | 9.20 | 9.06 | 9.60 | 9.47 | - | 344.08 | 334.31 | 342.72 | 331.45 | - |
| Women's footwear, except athletic .................... | 3144 | 7.43 | 7.36 | 7.71 | 7.68 | - | 275.65 | 273.06 | 286.04 | 275.71 | - |
| Luggage ....................................................... | 316 | 8.82 | 8.92 | 9.22 | 9.21 | - | 343.10 | 339.85 | 340.22 | 341.69 | - |
| Handbags and personal leather goods ................. | 317 | 7.92 | 7.69 | 8.19 | 8.27 | - | 304.92 | 292.22 | 307.94 | 308.47 | - |
| Service-producing ................................................. |  | 11.73 | 11.64 | 12.19 | 12.19 | 12.18 | 385.92 | 379.46 | 401.05 | 397.39 | 399.50 |
| Transportation and public utilities ......................... |  | 14.93 | 14.81 | 15.24 | 15.26 | 15.20 | 592.72 | 582.03 | 600.46 | 596.67 | 603.44 |

See footnotes at end of table.

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \end{gathered}$Code | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ 1998^{\circ} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \mathrm{P} \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. <br> 1998 | $\begin{gathered} \text { Apr. } \\ \text { 1998p } \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Transportation and public utilities--Continued Railroad transportation: <br> Class I railroads plus Amtrak ${ }^{3}$ $\qquad$ | 4011 | 49.3 | 49.0 | 49.2 | 48.5 | - | - | - | - | - | - |
| Local and interurban passenger transit .................... | 41 | 34.3 | 34.0 | 34.6 | 33.5 | - | - | - | - | - | - |
| Local and suburban transportation ........................ | 411 | 38.3 | 38.1 | 38.4 | 38.6 | - | - | - | - | - | - |
| Intercity and rural bus transportation ..................... | 413 | 38.1 | 37.9 | 37.9 | 38.1 | - | - | - | - | - | - |
| Trucking and warehousing .................................... | 42 | 40.2 | 39.9 | 39.3 | 39.3 | - | - | - | - | - | - |
| Trucking and courier services, except air ................ | 421 | 40.2 | 40.0 | 39.3 | 39.3 | - | - | - | - | - | - |
| Public warehousing and storage ......................... | 422 | 40.2 | 39.0 | 39.6 | 39.3 | - | - | - | - | - | - |
| Water transportation: <br> Water transportation services | 449 | 38.3 | 37.9 | 38.0 | 38.2 | - | - | - | - | - | - |
| Pipelines, except natural gas .................................. | 46 | 43.9 | 43.3 | 43.6 | 44.1 | - | - | - | - | - | - |
| Transportation services | 47 | 37.9 | 38.0 | 38.0 | 37.5 | - | - | - | - | - | - |
| Passenger transportation arrangement .................. | 472 | 37.6 | 37.7 | 38.1 | 37.6 | - | - | - | - | - | - |
| Travel agencies ............................................... | 4724 | 37.5 | 37.3 | 38.3 | 37.8 | - | - | - | - | - | - |
| Freight transportation arrangement ....................... | 473 | 38.2 | 38.4 | 37.8 | 37.0 | - | - | - | - | - | - |
| Communications ................................................ | 48 | 40.2 | 40.0 | 40.7 | 40.3 | - | - | - | - | - | - |
| Telephone communications ................................. | 481 | 41.8 | 41.6 | 42.3 | 41.8 | - | - | - | - | - | - |
| Telephone communications, except radio ............. | 4813 | 42.3 | 42.4 | 42.7 | 42.2 | - | - | - | - | - |  |
| Radio and television broadcasting ......................... | 483 | 35.4 | 35.1 | 35.9 | 35.7 | - | - | - | - | - | - |
| Cable and other pay television services ................. | 484 | 39.2 | 39.0 | 40.0 | 39.9 | - | - | - | - | - | - |
| Electric, gas, and sanitary services ......................... | 49 | 42.1 | 42.4 | 41.9 | 41.6 | - | - | - | - | - | - |
| Electric services ................................................. | 491 | 41.7 | 42.4 | 41.4 | 41.2 | - | - | - | - | - | - |
| Gas production and distribution ............................. | 492 | 42.5 | 42.1 | 41.8 | 41.5 | - | - | - | - | - | - |
| Combination utility services ................................. | 493 | 42.9 | 43.5 | 42.8 | 41.8 | - | - | - | - | - | - |
| Sanitary services ................................................ | 495 | 42.0 | 41.8 | 42.3 | 42.2 | - | - | - | - | - | - |
| Wholesale trade ................................................... |  | 38.4 | 38.3 | 38.4 | 38.1 | 38.4 | - | - | - | - | - |
| Durable goods ..................................................... | 50 | 39.2 | 39.0 | 39.2 | 38.8 | - | - | - | - | - | - |
| Motor vehicles, parts, and supplies ....................... | 501 | 38.0 | 38.1 | 37.5 | 37.2 | - | - | - | - | - | - |
| Furniture and home furnishings ............................ | 502 | 37.6 | 37.1 | 37.9 | 37.6 | - | - | - | - | - | - |
| Lumber and other construction materials ................ | 503 | 40.0 | 40.0 | 39.1 | 39.5 | - | - | - | - | - | - |
| Professional and commercial equipment ................ | 504 | 39.7 | 39.3 | 40.3 | 39.4 | - | - | - | - | - | - |
| Medical and hospital equipment .......................... | 5047 | 39.6 | 39.3 | 40.0 | 39.2 | - | - | - | - | - | - |
| Metals and minerals, except petroleum .................. | 505 | 41.8 | 41.7 | 41.1 | 40.5 | - | - | - | - | - | - |
| Electrical goods ................................................ | 506 | 39.2 | 39.3 | 39.4 | 38.8 | - | - | - | - | - | - |
| Hardware, plumbing, and heating equipment .......... | 507 | 39.2 | 39.1 | 39.2 | 38.9 | - | - | - | - | - | - |
| Machinery, equipment, and supplies ..................... | 508 | 39.4 | 39.3 | 39.6 | 39.3 | - | - | - | - | - | - |
| Misc. wholesale trade durable gocds ..................... | 509 | 37.8 | 38.0 | 37.3 | 37.0 | - | - | - | - | - | - |
| Nondurable goods .............................................. | 51 | 37.4 | 37.3 | 37.3 | 37.2 | - | - | - | - | - | - |
| Paper and paper products ................................... | 511 | 36.2 | 35.6 | 36.9 | 36.5 | - | - | - | - | - | - |
| Drugs, proprietaries, and sundries ........................ | 512 | 36.2 | 36.2 | 36.7 | 36.2 | - | - | - | - | - | - |
| Apparel, piece goods, and notions ........................ | 513 | 37.2 | 36.7 | 37.3 | 36.7 | - | - | - | - | - | - |
| Groceries and related products ............................. | 514 | 38.5 | 38.5 | 38.1 | 38.2 | - | - | - | - | - | - |
| Farm-product raw materials ................................. | 545 | 34.9 | 34.5 | 32.7 | 33.9 | - | - | - | - | - | - |
| Chemicals and allied products ............................. | 516 | 40.2 | 40.4 | 40.0 | 39.2 | - | - | - | - | - | - |
| Petroleum and petroleum products ....................... | 517 | 37.8 | 37.4 | 37.4 | 37.3 | - | - | - | - | - | - |
| Beer, wine, and distilled beverages ....................... | 518 | 37.7 | 37.7 | 37.7 | 37.7 | - | - | - | - | - | - |
| Misc. wholesale trade nondurable goods ................ | 519 | 36.3 | 36.5 | 36.1 | 36.6 | - | - | - | - | - | - |
| Retail trade .......................................................... |  | 28.9 | 28.6 | 28.7 | 28.7 | 29.0 | - | - | - | - | - |
| Building materials and garden supplies .................... | 52 | 34.9 | 34.7 | 34.7 | 34.8 | - | - | - | - | - | - |
| Lumber and other building materials ..................... | 521 | 36.5 | 36.3 | 36.2 | 36.4 | - | - | - | - | - | - |
| Paint, glass, and wallpaper stores ......................... | 523 | 35.8 | 35.6 | 35.4 | 35.7 | - | - | - | - | - | - |
| Hardware stores ................................................ | 525 | 31.1 | 30.8 | 30.5 | 30.6 | - | - | - | - | - | - |
| Retail nurseries and garden stores ........................ | 526 | 31.4 | 31.2 | 30.7 | 31.7 | - | - | - | - | - | - |

See footnotes at end of table.

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

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolis by detailed industry-Continued

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. <br> 1997 | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. <br> 1997 | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 \mathrm{P} \end{gathered}$ |
| Transportation and public utilities--Continued Railroad transportation: Class I railroads plus Amtrak ${ }^{3}$ | 4011 | \$18.10 | \$18.10 | \$18.10 | \$18.00 | - | \$892.33 | \$886.90 | \$890.52 | \$873.00 | - |
| Local and interurban passenger transit | 41 | 10.90 | 10.87 | 10.97 | 11.16 | - | 373.87 | 369.58 | 379.56 | 373.86 | - |
| Local and suburban transportation .... | 411 | 11.41 | 11.45 | 11.59 | 11.74 | - | 437.00 | 436.25 | 445.06 | 453.16 | - |
| Intercity and rural bus transportation ...................... | 413 | 13.45 | 13.28 | 13.08 | 13.16 | - | 512.45 | 503.31 | 495.73 | 501.40 | - |
| Trucking and warehousing | 42 | 13.23 | 13.13 | 13.56 | 13.60 | - | 531.85 | 523.89 | 532.91 | 534.48 | - |
| Trucking and courier services, except air ................ | 421 | 13.44 | 13.34 | 13.80 | 13.83 | - | 540.29 | 533.60 | 542.34 | 543.52 | - |
| Public warehousing and storage .......... | 422 | 10.88 | 10.88 | 11.08 | 11.11 | - | 437.38 | 424.32 | 438.77 | 436.62 | - |
| Water transportation: Water transportation services | 449 | 19.68 | 19.10 | 20.56 | 20.49 | - | 753.74 | 723.89 | 781.28 | 782.72 | - |
| Pipelines, except natural gas ................................. | 46 | 20.54 | 20.67 | 20.67 | 20.34 | - | 901.71 | 895.01 | 901.21 | 896.99 | - |
| Transportation services | 47 | 13.14 | 12.87 | 13.68 | 13.59 | - | 498.01 | 489.06 | 519.84 | 509.63 | - |
| Passenger transportation arrangement | 472 | 13.26 | 12.65 | 14.11 | 14.13 | - | 498.58 | 476.91 | 537.59 | 531.29 | - |
| Travel agencies | 4724 | 13.55 | 12.88 | 14.50 | 14.56 | - | 508.13 | 480.42 | 555.35 | 550.37 | - |
| Freight transportation arrangement | 473 | 13.33 | 13.32 | 13.57 | 13.34 | - | 509.21 | 511.49 | 512.95 | 493.58 | - |
| Communications | 48 | 16.92 | 16.66 | 17.16 | 16.97 | - | 680.18 | 666.40 | 698.41 | 683.89 | - |
| Telephone communications ................................. | 481 | 17.51 | 17.27 | 17.78 | 17.42 | - | 731.92 | 718.43 | 752.09 | 728.16 | - |
| Telephone communications, except radio ............. | 4813 | 18.03 | 17.71 | 18.30 | 17.90 | - | 762.67 | 750.90 | 781.41 | 755.38 | - |
| Radio and television broadcasting ......................... | 483 | 17.03 | 16.82 | 17.35 | 17.65 | - | 602.86 | 590.38 | 622.87 | 630.11 | - |
| Cable and other pay television services ................. | 484 | 13.51 | 13.27 | 13.79 | 13.76 | - | 529.59 | 517.53 | 551.60 | 549.02 | - |
| Electric, gas, and sanitary services ......................... | 49 | 19.09 | 19.00 | 19.74 | 19.83 | - | 803.69 | 805.60 | 827.11 | 824.93 | - |
| Electric services ................................................. | 491 | 20.08 | 19.97 | 20.64 | 20.93 | - | 837.34 | 846.73 | 854.50 | 862.32 | - |
| Gas production and distribution | 492 | 17.99 | 17.73 | 18.60 | 18.73 | - | 764.58 | 746.43 | 777.48 | 777.30 | - |
| Combination utility services. | 493 | 23.16 | 23.33 | 24.03 | 23.88 | - | 993.56 | 1,014.86 | 1,028.48 | 998.18 | - |
| Sanitary services ............... | 495 | 14.70 | 14.34 | 15.53 | 15.49 | - | 617.40 | 599.41 | 656.92 | 653.68 | - |
| Wholesale trade |  | 13.44 | 13.34 | 13.86 | 13.92 | \$13.97 | 516.10 | 510.92 | 532.22 | 530.35 | \$536.45 |
| Durable goods .................................................... | 50 | 14.01 | 13.92 | 14.45 | 14.54 | - | 549.19 | 542.88 | 566.44 | 564.15 | - |
| Motor vehicles, parts, and supplies | 501 | 12.21 | 12.17 | 12.86 | 12.91 | - | 463.98 | 463.68 | 482.25 | 480.25 | - |
| Furniture and home furnishings ............................ | 502 | 12.49 | 12.51 | 12.84 | 12.88 | - | 469.62 | 464.12 | 486.64 | 484.29 | - |
| Lumber and other construction materials ................ | 503 | 12.70 | 12.55 | 12.97 | 13.04 | - | 508.00 | 502.00 | 507.13 | 515.08 | - |
| Professional and commercial equipment ................. | 504 | 16.61 | 16.57 | 17.00 | 17.21 | - | 659.42 | 651.20 | 685.10 | 678.07 | - |
| Medical and hospital equipment ........................... | 5047 | 15.99 | 15.72 | 16.94 | 17.06 | - | 633.20 | 617.80 | 677.60 | 668.75 | - |
| Metals and minerals, except petroleum .................. | 505 | 13.46 | 13.40 | 13.89 | 13.95 | - | 562.63 | 558.78 | 570.88 | 564.98 | - |
| Electrical goods .................................................. | 506 | 15.19 | 15.09 | 15.67 | 15.76 | - | 595.45 | 593.04 | 617.40 | 611.49 | - |
| Hardware, plumbing, and heating equipment .......... | 507 | 13.24 | 13.05 | 13.63 | 13.59 | - | 519.01 | 510.26 | 534.30 | 528.65 | - |
| Machinery, equipment, and supplies ...................... | 508 | 14.05 | 13.95 | 14.39 | 14.52 | - | 553.57 | 548.24 | 569.84 | 570.64 | - |
| Misc. wholesale trade durable goods ..................... | 509 | 10.90 | 10.79 | 11.34 | 11.38 | - | 412.02 | 410.02 | 422.98 | 421.06 | - |
| Nondurable goods ............................................... | 51 | 12.59 | 12.50 | 12.98 | 13.00 | - | 470.87 | 466.25 | 484.15 | 483.60 | - |
| Paper and paper products ................................... | 511 | 12.78 | 12.58 | 13.28 | 13.49 | - | 462.64 | 447.85 | 490.03 | 492.39 | - |
| Drugs, proprietaries, and sundries ........................ | 512 | 16.41 | 16.25 | 16.72 | 16.91 | - | 594.04 | 588.25 | 613.62 | 612.14 | - |
| Apparel, piece goods, and notions ........................ | 513 | 12.38 | 12.50 | 12.92 | 12.90 | - | 460.54 | 458.75 | 481.92 | 473.43 | - |
| Groceries and related products ............................. | 514 | 12.87 | 12.82 | 13.17 | 13.22 | - | 495.50 | 493.57 | 501.78 | 505.00 | - |
| Farm-product raw materials ................................. | 515 | 9.57 | 9.56 | 9.94 | 9.95 | - | 333.99 | 329.82 | 325.04 | 337.31 | - |
| Chemicals and allied products .............................. | 516 | 14.21 | 13.89 | 14.79 | 14.76 | - | 571.24 | 561.16 | 591.60 | 578.59 | - |
| Petroleum and petroleum products ....................... | 517 | 11.66 | 11.63 | 11.85 | 11.89 | - | 440.75 | 434.96 | 443.19 | 443.50 | - |
| Beer, wine, and distilled beverages ....................... | 518 | 14.70 | 14.59 | 15.07 | 15.32 | - | 554.19 | 550.04 | 568.14 | 577.56 | - |
| Misc. wholesale trade nondurable goods ................ | 519 | 10.35 | 10.20 | 10.76 | 10.70 | - | 375.71 | 372.30 | 388.44 | 391.62 | - |
| Retail trade ........................................................... |  | 8.34 | 8.27 | 8.67 | 8.71 | 8.73 | 241.03 | 236.52 | 248.83 | 249.98 | 253.17 |
| Building materials and garden supplies .................... | 52 | 9.85 | 9.75 | 10.09 | 10.11 | - | 343.77 | 338.33 | 350.12 | 351.83 | - |
| Lumber and other building materials ...................... | 521 | 10.24 | 10.17 | 10.49 | 10.55 | - | 373.76 | 369.17 | 379.74 | 384.02 | - |
| Paint, glass, and wallpaper stores ......................... | 523 | 10.38 | 10.17 | 10.50 | 10.42 | - | 371.60 | 362.05 | 371.70 | 371.99 | - |
| Hardware stores ................................................ | 525 | 8.24 | 8.22 | 8.48 | 8.57 | - | 256.26 | 253.18 | 258.64 | 262.24 | - |
| Retail nurseries and garden stores ........................ | 526 | 8.85 | 8.62 | 9.10 | 8.94 | - | 277.89 | 268.94 | 279.37 | 283.40 | - |

See footnotes at end of table.

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{aligned} & 1987 \\ & \text { SIC } \\ & \text { Code } \end{aligned}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ 1998^{\circ} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1999^{\circ} \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Retail trade-Continued |  |  |  |  |  |  |  |  |  |  |  |
| General merchandise stores ................................. | 53 | 29.7 | 29.0 | 29.5 | 29.3 | - | - | - | - | - | - |
| Department stores .............................................. | 531 | 29.8 | 29.0 | 29.6 | 29.4 | - | - | - | - | - | - |
| Variety stores ..................................................... | 533 | 27.5 | 27.0 | 27.2 | 27.3 | - | - | - | - | - | - |
| Misc. general merchandise stores ......................... | 539 | 30.0 | 29.6 | 29.9 | 30.2 | - | - | - | - | - | - |
| Food stores ......................................................... | 54 | 29.8 | 29.4 | 29.4 | 29.5 | - | - | - | - | - | - |
| Grocery stores ................................................... | 541 | 29.9 | 29.6 | 29.5 | 29.6 | - | - | - | - | - | - |
| Retail bakeries ................................................... | 546 | 28.7 | 27.9 | 28.6 | 28.9 | - | - | - | - | - | - |
| Automotive dealers and service stations .................. | 55 | 35.6 | 35.4 | 35.4 | 35.4 | - | - | - | - | - | - |
| New and used car dealers .................................... | 551 | 36.9 | 36.8 | 36.9 | 36.9 | - | - | - | - | - | - |
| Auto and home supply stores ............................... | 553 | 37.8 | 37.8 | 37.7 | 37.8 | - | - | - | - | - | - |
| Gasoline service stations ..................................... | 554 | 32.1 | 31.7 | 31.6 | 31.5 | - | - | - | - | - | - |
| Automotive dealers, nec ...................................... | 559 | 35.6 | 36.3 | 34.6 | 36.8 | - | - | - | - | - | - |
| Apparel and accessory stores ................................ | 56 | 26.8 | 26.5 | 26.4 | 26.4 | - | - | - | - | - | - |
| Men's and boys' clothing stores ........................... | 561 | 29.0 | 28.3 | 27.9 | 28.1 | - | - | - | - | - | - |
| Women's clothing stores ..................................... | 562 | 25.0 | 24.9 | 24.4 | 24.6 | - | - | - | - | - | - |
| Family clothing stores ......................................... | 565 | 27.5 | 27.3 | 27.2 | 27.2 | - | - | - | - | - | - |
| Shoe stores ............... | 566 | 26.5 | 26.1 | 26.1 | 26.0 | - | - | - | - | - | - |
| Furniture and home furnishings stores ..................... | 57 | 33.0 | 32.6 | 32.9 | 32.5 | - | - | - | - | - | - |
| Furniture and home furnishings stores ................... | 571 | 32.9 | 32.8 | 32.7 | 32.4 | - | - | - | - | - | - |
| Household appliance stores ................................. | 572 | 34.6 | 34.3 | 33.9 | 33.9 | - | - | - | - | - | - |
| Radio, television, and computer stores .................. | 573 | 32.8 | 32.0 | 33.1 | 32.5 | - | - | - | - | - | - |
| Radio, television, and electronic stores ................. | 5731 | 33.1 | 32.1 | 33.2 | 32.3 | - | - | - | - | - | - |
| Record and prerecorded tape stores ................... | 5735 | 25.5 | 24.6 | 25.1 | 25.7 | - | - | - | - | - | - |
| Eating and drinking places ${ }^{4}$................................... | 58 | 25.3 | 25.2 | 25.2 | 25.2 | - | - | - | - | - | - |
| Miscellaneous retail establishments ........................ | 59 | 29.6 | 29.2 | 29.0 | 29.2 | - | - | - | - | - | - |
| Drug stores and proprietary stores ........................ | 591 | 28.9 | 28.7 | 28.3 | 28.7 | - | - | - | - | - | - |
| Used merchandise stores .................................... | 593 | 30.6 | 30.6 | 30.0 | 30.2 | - | - | - | - | - | - |
| Miscellaneous shopping goods stores .................... | 594 | 28.0 | 27.5 | 27.3 | 27.4 | - | - | - | - | - | - |
| Nonstore retailers ............................................... | 596 | 32.5 | 32.1 | 31.8 | 31.7 | - | - | - | - | - | - |
| Fuel dealers ....................................................... | 598 | 38.1 | 37.3 | 37.7 | 36.8 | - | - | - | - | - | - |
| Retail stores, nec ................................................ | 599 | 30.3 | 29.6 | 29.8 | 30.5 | - | - | - | - | - | - |
| Optical goods stores | 5995 | 33.2 | 33.0 | 33.7 | 33.4 | - | - | - | - | - | - |
| Miscellaneous retail stores, nec .......................... | 5999 | 30.4 | 30.0 | 30.3 | 30.5 | - | - | - | - | - | - |
| Finance, Insurance, and real estate ${ }^{5}$..................... |  | 36.1 | 35.9 | 36.8 | 36.1 | 36.1 | - | - | - | - | - |
| Depository institutions .......................................... | 60 | 35.3 | 35.1 | 35.8 | 35.2 | - | - | - | - | - | - |
| Commercial banks ............................................. | 602 | 35.0 | 34.8 | 35.6 | 34.9 | - | - | - | - | - | - |
| State commercial banks .................................... | 6022 | 35.4 | 35.0 | 35.7 | 35.1 | - | - | - | - | - | - |
| National and commercial banks, nec .................... | 6021,9 | 34.7 | 34.6 | 35.6 | 34.8 | - | - | - | - | - | - |
| Credit unions ..................................................... | 606 | 36.0 | 36.0 | 36.0 | 35.6 | - | - | - | - | - | - |
| Nondepository institutions ..................................... | 61 | 38.0 | 37.7 | 39.2 | 38.0 | - | - | - | - | - | - |
| Personal credit institutions ................................... | 614 | 38.6 | 38.2 | 39.7 | 38.0 | - | - | - | - | - | - |
| Security and commodity brokers: <br> Security and commodity services $\qquad$ | 628 | 37.9 | 37.6 | 39.6 | 38.5 | - | - | - | - | - | - |
| Insurance carriers ................................................. | 63 | 38.5 | 38.3 | 39.6 | 38.8 | - | - | - | - | - | - |
| Life insurance .................................................... | 631 | 38.0 | 37.8 | 40.0 | 38.9 | - | - | - | - | - | - |
| Medical service and health insurance .................... | 632 | 38.9 | 38.8 | 39.7 | 38.9 | - | - | - | - | - | - |
| Hospital and medical service plans ...................... | 6324 | 39.2 | 39.1 | 40.1 | 39.4 | - | - | - | - | - | - |
| Fire, marine, and casualty insurance ...................... | 633 | 38.8 | 38.4 | 39.3 | 38.7 | - | - | - | - | - | - |
| Services ............................................................... |  | 32.6 | 32.4 | 32.7 | 32.4 | 32.5 | - | - | - | - | - |
| Agricultural services ............................................. | 07 | 34.3 | 34.4 | 33.1 | 35.0 | - | - | - | - | - | - |

See footnotes at end of table.

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

B-15. 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 hourly eamings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Avg. <br> 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1998{ }^{2} \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | Avg. <br> 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | $\begin{aligned} & \text { Apr. } \\ & 1998 \mathrm{p} \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998{ }^{2} \end{gathered}$ |
| Retail trade-Continued |  |  |  |  |  |  |  |  |  |  |  |
| General merchandise stores | 53 | \$8.16 | \$8.12 | \$8.58 | \$8.71 | - | \$242.35 | \$235.48 | \$253.11 | \$255.20 | - |
| Department stores .............................................. | 531 | 8.20 | 8.17 | 8.65 | 8.78 | - | 244.36 | 236.93 | 256.04 | 258.13 | - |
| Variety stores ..................................................... | 533 | 7.43 | 7.45 | 7.74 | 7.79 | - | 204.33 | 201.15 | 210.53 | 212.67 | - |
| Misc. general merchandise stores ......................... | 539 | 7.99 | 7.90 | 8.27 | 8.33 | - | 239.70 | 233.84 | 247.27 | 251.57 | - |
| Food stores ......................................................... | 54 | 8.69 | 8.71 | 8.99 | 8.99 | - | 258.96 | 256.07 | 264.31 | 265.21 | - |
| Grocery stores ................................................... | 541 | 8.80 | 8.81 | 9.08 | 9.09 | - | 263.12 | 260.78 | 267.86 | 269.06 | - |
| Retail bakeries | 546 | 7.65 | 7.65 | 8.00 | 7.97 | - | 219.56 | 213.44 | 228.80 | 230.33 | - |
| Automotive dealers and service stations | 55 | 11.42 | 11.35 | 11.85 | 12.05 | - | 406.55 | 401.79 | 419.49 | 426.57 | - |
| New and used car dealers | 551 | 14.39 | 14.29 | 14.83 | 15.15 | - | 530.99 | 525.87 | 547.23 | 559.04 | - |
| Auto and home supply stores ............................... | 553 | 9.48 | 9.39 | 9.81 | 9.91 | - | 358.34 | 354.94 | 369.84 | 374.60 | - |
| Gasoline service stations ..................................... | 554 | 7.47 | 7.39 | 7.73 | 7.76 | - | 239.79 | 234.26 | 244.27 | 244.44 | - |
| Automotive dealers, nec ..................................... | 559 | 12.65 | 12.33 | 12.46 | 12.13 | - | 450.34 | 447.58 | 431.12 | 446.38 | - |
| Apparel and accessory stores ................................ | 56 | 8.06 | 8.01 | 8.40 | 8.40 | - | 216.01 | 212.27 | 221.76 | 221.76 | - |
| Men's and boys' clothing stores ............................ | 561 | 9.74 | 9.68 | 10.19 | 10.13 | - | 282.46 | 273.94 | 284.30 | 284.65 | - |
| Women's clothing stores ..................................... | 562 | 7.95 | 7.88 | 8.34 | 8.22 | - | 198.75 | 196.21 | 203.50 | 202.21 | - |
| Family clothing stores .......................................... | 565 | 7.79 | 7.74 | 8.14 | 8.20 | - | 214.23 | 211.30 | 221.41 | 223.04 | - |
| Shoe stores ...................................................... | 566 | 7.96 | 7.94 | 8.21 | 8.33 | - | 210.94 | 207.23 | 214.28 | 216.58 | - |
| Furniture and home furnishings stores ..................... | 57 | 11.26 | 11.03 | 11.75 | 11.75 | - | 371.58 | 359.58 | 386.58 | 381.88 | - |
| Furniture and home furnishings stores ................... | 571 | 10.56 | 10.32 | 11.00 | 11.06 | - | 347.42 | 338.50 | 359.70 | 358.34 | - |
| Household appliance stores ................................. | 572 | 10.65 | 10.40 | 11.13 | 11.05 | - | 368.49 | 356.72 | 377.31 | 374.60 | - |
| Radio, television, and computer stores .................. | 573 | 12.20 | 12.04 | 12.71 | 12.67 | - | 400.16 | 385.28 | 420.70 | 411.78 | - |
| Radio, television, and electronic stores ................. | 5731 | 11.07 | 10.86 | 11.77 | 11.68 | - | 366.42 | 348.61 | 390.76 | 377.26 | - |
| Record and prerecorded tape stores .................... | 5735 | 6.96 | 6.99 | 7.31 | 7.15 | - | 177.48 | 171.95 | 183.48 | 183.76 | - |
| Eating and drinking places ${ }^{4}$................................... | 58 | 6.05 | 5.96 | 6.26 | 6.30 | - | 153.07 | 150.19 | 157.75 | 158.76 | - |
| Miscellaneous retail establishments ........................ | 59 | 9.11 | 9.07 | 9.45 | 9.41 | - | 269.66 | 264.84 | 274.05 | 274.77 | - |
| Drug stores and proprietary stores ........................ | 591 | 9.72 | 9.67 | 9.96 | 10.00 | - | 280.91 | 277.53 | 281.87 | 287.00 | - |
| Used merchandise stores .................................... | 593 | 7.62 | 7.60 | 7.90 | 7.88 | - | 233.17 | 232.56 | 237.00 | 237.98 | - |
| Miscellaneous shopping goods stores | 594 | 8.40 | 8.36 | 8.79 | 8.69 | - | 235.20 | 229.90 | 239.97 | 238.11 | - |
| Nonstore retailers ............................................... | 596 | 9.61 | 9.65 | 10.03 | 10.00 | - | 312.33 | 309.77 | 318.95 | 317.00 | - |
| Fuel dealers | 598 | 12.35 | 12.15 | 12.66 | 12.68 | - | 470.54 | 453.20 | 477.28 | 466.62 | - |
| Retail stores, nec ................................................ | 599 | 9.18 | 9.13 | 9.45 | 9.46 | - | 278.15 | 270.25 | 281.61 | 288.53 | - |
| Optical goods stores ......................................... | 5995 | 11.25 | 11.34 | 10.99 | 11.00 | - | 373.50 | 374.22 | 370.36 | 367.40 | - |
| Miscellaneous retail stores, nec .......................... | 5999 | 9.48 | 9.41 | 9.79 | 9.92 | - | 288.19 | 282.30 | 296.64 | 302.56 | - |
| Finance, insurance, and real estate ${ }^{5}$..................... |  | 13.33 | 13.12 | 13.97 | 13.98 | \$13.97 | 481.21 | 471.01 | 514.10 | 504.68 | \$504.32 |
| Depository institutions .......................................... | 60 | 10.29 | 10.10 | 10.77 | 10.73 | - | 363.24 | 354.51 | 385.57 | 377.70 | - |
| Commercial banks .............................................. | 602 | 9.82 | 9.65 | 10.28 | 10.24 | - | 343.70 | 335.82 | 365.97 | 357.38 | - |
| State commercial banks | 6022 | 9.69 | 9.57 | 10.15 | 10.09 | - | 343.03 | 334.95 | 362.36 | 354.16 | - |
| National and commercial banks, nec ..................... | 6021,9 | 9.91 | 9.71 | 10.37 | 10.34 | - | 343.88 | 335.97 | 369.17 | 359.83 | - |
| Credit unions ..................................................... | 606 | 10.16 | 10.05 | 10.50 | 10.54 | - | 365.76 | 361.80 | 378.00 | 375.22 | - |
| Nondepository institutions ...................................... | 61 | 13.68 | 13.31 | 14.42 | 14.58 | - | 519.84 | 501.79 | 565.26 | 554.04 | - |
| Personal credit institutions ................................... | 614 | 11.70 | 11.59 | 12.05 | 12.21 | - | 451.62 | 442.74 | 478.39 | 463.98 | - |
| Security and commodity brokers: <br> Security and commodity services $\qquad$ | 628 | 19.11 | 18.70 | 20.16 | 20.35 | - | 724.27 | 703.12 | 798.34 | 783.48 | - |
| Insurance carriers ................................................. | 63 | 15.83 | 15.55 | 16.49 | 16.59 | - | 609.46 | 595.57 | 653.00 | 643.69 | - |
| Life insurance | 631 | 14.47 | 14.36 | 14.89 | 14.97 | - | 549.86 | 542.81 | 595.60 | 582.33 | - |
| Medical service and health insurance .................... | 632 | 14.82 | 14.59 | 15.58 | 15.63 | - | 576.50 | 566.09 | 618.53 | 608.01 | - |
| Hospital and medical service plans ...................... | 6324 | 15.12 | 14.89 | 15.93 | 15.97 | - | 592.70 | 582.20 | 638.79 | 629.22 | - |
| Fire, marine, and casualty insurance ...................... | 633 | 17.35 | 16.98 | 18.10 | 18.23 | - | 673.18 | 652.03 | 711.33 | 705.50 | - |
| Services ................................................................ |  | 12.28 | 12.19 | 12.77 | 12.75 | 12.73 | 400.33 | 394.96 | 417.58 | 413.10 | 413.73 |
| Agricultural services ............................................. | 07 | 9.51 | 9.38 | 9.89 | 9.75 | - | 326.19 | 322.67 | 327.36 | 341.25 | - |

See footnotes at end of table.

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

B-15. 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 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. 1997 | Mar. 1998 | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ |
| Services-Continued <br> Agricultural services-Continued |  |  |  |  |  |  |  |  |  |  |  |
| Agricultural services-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  | 074 | 28.9 | 28.8 | 28.8 | 28.9 | - | - | - | - | - | - |
| Landscape and horticultural services ................... | 078 | 36.7 | 36.7 | 35.3 | 37.6 | - | - | - | - | - | - |
| Hotels and other lodging places: Hotels and motels ${ }^{4}$ $\qquad$ | 701 | 30.9 | 30.6 | 31.3 | 31.1 | - | - | - | - | - | - |
| Personal services: |  |  |  |  |  |  |  |  |  |  |  |
| Laundry, cleaning, and garment services ................ | 721 | 34.1 | 34.1 | 34.0 | 34.3 | - | - | - | - | - | - |
| Beauty shops ${ }^{4}$................................................... | 723 | 27.9 | 27.8 | 28.4 | 28.0 | - | - | - | - | - | - |
| Miscellaneous personal services .......................... | 729 | 27.1 | 27.4 | 25.8 | 26.3 | - | - | - | - | - | - |
| Business services | 73 | 33.5 | 33.4 | 33.5 | 33.1 | - | - | -- | - | - | - |
| Advertising ................................ | 731 | 36.6 | 36.5 | 37.2 | 36.6 | - | - | - | - | - | - |
| Mailing, reproduction, and stenographic services: Photocopying and duplicating services | 7334 | 36.3 | 36.1 | 37.2 | 36.0 | - | - | - | - | - | - |
| Services to buildings ........................................... | 734 | 28.6 | 28.9 | 28.5 | 28.4 | - | - | - | - | - | - |
| Disinfecting and pest control services .................. | 7342 | 36.7 | 36.9 | 37.0 | 37.2 | - | - | - | - | - | - |
| Building maintenance services, nec ..................... | 7349 | 27.8 | 28.2 | 27.6 | 27.6 | - | - | - | - | - | - |
| Miscellaneous equipment rental and leasing ........... | 735 | 39.1 | 39.1 | 38.5 | 38.6 | - | - | - | - | - | - |
| Medical equipment rental ................................... | 7352 | 37.1 | 37.7 | 36.5 | 37.3 | - | - | - | - | - | - |
| Heavy construction equipment rental ................... | 7353 | 40.4 | 40.3 | 40.2 | 40.3 | - | - | - | - | - | - |
| Equipment rental and leasing, nec ...................... | 7359 | 39.2 | 39.0 | 38.5 | 38.4 | - | - | - | - | - | - |
| Personnel supply services: |  |  |  |  |  |  |  |  |  |  |  |
| Help supply services ........................................ | 7363 | 32.4 | 32.3 | 32.4 | 31.6 | - | - | - | - | - | - |
| Computer and data processing services ................ | 737 | 38.3 | 38.2 | 38.5 | 38.2 | - | - | - | - |  | - |
| Computer programming services ........................ | 7371 | 38.4 | 38.5 | 38.1 | 37.7 | - | - | - | - | - | - |
| Computer integrated systems design ................... | 7373 | 38.9 | 38.4 | 40.1 | 39.6 | - | - | - | - | - | - |
| Information retrieval services .............................. | 7375 | 38.0 | 37.8 | 38.5 | 38.4 | - | - | - | - | - | - |
| Computer maintenance and repair ...................... | 7378 | 38.7 | 38.1 | 39.0 | 38.7 | - | - | - | - | - | - |
| Miscellaneous business services .......................... | 738 | 33.1 | 32.9 | 32.8 | 32.7 | - | - | - | - | - | - |
| Detective and armored car services ..................... | 7381 | 34.4 | 34.2 | 34.5 | 34.1 | - | - | - | - | - | - |
| Security systems services .................................. | 7382 | 35.9 | 35.3 | 35.7 | 35.8 | - | - | - | - | - | - |
| Auto repair, services, and parking ........................... | 75 | 36.2 | 35.9 | 35.7 | 35.5 | - | - | - | - | - | - |
| Automotive rentals, without drivers ........................ | 751 | 36.3 | 36.0 | 37.2 | 37.0 | - | - | - | - | - | - |
| Passenger car rental ........................................ | 7514 | 36.4 | 36.1 | 37.1 | 37.3 | - | - | - | - | - | - |
| Automobile parking ............................................. | 752 | 33.6 | 32.8 | 33.0 | 31.9 | - | - | - | - | - | - |
| Automotive repair shops ..................................... | 753 | 38.3 | 38.1 | 37.7 | 37.8 | - | - | - | - | - | - |
| Automotive and tire repair shops ......................... | 7532,4 | 38.2 | 38.2 | 37.7 | 37.9 | - | - | - | - | - | - |
| General automotive repair shops ........................ | 7538 | 37.8 | 37.6 | 37.3 | 37.7 | - | - | - | - | - | - |
| Automotive services, except repair ........................ | 754 | 31.5 | 31.1 | 30.5 | 30.1 | - | - | - | - | - | - |
| Carwashes ...................................................... | 7542 | 28.7 | 28.2 | 27.3 | 26.8 | - | - | - | - | - | - |
| Miscellaneous repair services ............................... | 76 | 38.4 | 38.5 | 38.3 | 38.1 | - | - | - | - | - | - |
| Motion pictures .................................................... | 78 | 29.9 | 29.7 | 29.5 | 29.2 | - | - | - | - | - | - |
| Motion picture production and services .................. | 781 | 39.1 | 39.3 | 38.5 | 38.3 | - | - | - | - | - | - |
| Video tape rental .............................................. | 784 | 23.9 | 23.7 | 23.5 | 22.7 | - | - | - | - | - | - |
| Amusement and recreation services ........................ | 79 | 26.9 | 26.2 | 26.3 | 26.3 | - | - | - | - | - | - |
| Bowling centers ................................................. | 793 | 24.6 | 24.6 | 25.1 | 24.7 | - | - | - | - | - | - |
| Misc. amusement and recreation services .............. | 799 | 26.6 | 25.6 | 25.5 | 25.9 | - | - | - | - | - | - |
| Physical fitness facilities .................................... | 7991 | 19.0 | 18.6 | 19.4 | 18.8 | - | - | - | - | - | - |
| Membership sports and recreation clubs ............... | 7997 | 28.5 | 27.8 | 27.8 | 28.1 | - | - | - | - | - | - |
| Health services .................................................... | 80 | 33.0 | 32.9 | 33.2 | 33.0 | - | - | - | - | - | - |
| Offices and clinics of medical doctors .................... | 801 | 33.2 | 33.0 | 33.2 | 33.0 | - | - | - | - | - | - |
| Offices and clinics of dentists ............................... | 802 | 28.4 | 28.5 | 28.5 | 28.1 | - | - | - | - | - | - |
| Offices and clinics of other health practitioners ........ | 804 | 30.3 | 30.3 | 30.5 | 29.8 | - | - | - | - | - | - |
| Nursing and personal care facilities | 805 | 32.4 | 32.1 | 32.4 | 32.4 | - | - | - | - | - | - |
| Intermediate care facilities | 8052 | 32.0 | 31.7 | 31.7 | 31.7 | - | - | - | - | - | - |
| Hospitals ........................................................... | 806 | 34.9 | 34.7 | 35.1 | 34.8 | - | - | - | - | - | - |

See footnotes at end of table.

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

B-15. 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 hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { Apr. } \\ 1997 \end{gathered}$ | $\begin{gathered} \text { Mar. } \\ 1998 \end{gathered}$ | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 \mathrm{P} \end{gathered}$ | Avg. 1997 | $\begin{gathered} \text { Apr. } \\ 1997 \end{gathered}$ | Mar. 1998 | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Services-Continued Agricultural services-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 074 | \$9.56 | \$9.45 | \$9.85 | \$9.90 | - | \$276.28 | \$272.16 | \$283.68 | \$286.11 | - |
| Landscape and horticultural services ...... | 078 | 9.55 | 9.41 | 9.98 | 9.74 | - | 350.49 | 345.35 | 352.29 | 366.22 | - |
| Hotels and other lodging places: Hotels and motels ${ }^{4}$ | 701 | 8.55 | 8.48 | 8.91 | 8.90 | - | 264.20 | 259.49 | 278.88 | 276.79 | - |
| Personal services: |  |  |  |  |  |  |  |  |  |  |  |
| Laundry, cleaning, and garment services ................ | 721 | 8.07 | 8.01 | 8.28 | 8.32 | - | 275.19 | 273.14 | 281.52 | 285.38 | - |
| Beauty shops ${ }^{4}$................................................... | 723 | 9.12 | 8.98 | 9.24 | 9.34 | - | 254.45 | 249.64 | 262.42 | 261.52 | - |
| Miscellaneous personal services .......................... | 729 | 8.43 | 7.97 | 8.86 | 8.63 | - | 228.45 | 218.38 | 228.59 | 226.97 | - |
| Business services ............................................... | 73 | 11.83 | 11.72 | 12.41 | 12.45 | - | 396.31 | 391.45 | 415.74 | 412.10 | - |
| Advertising ... | 731 | 16.85 | 16.76 | 17.39 | 17.50 | - | 616.71 | 611.74 | 646.91 | 640.50 | - |
| Mailing, reproduction, and stenographic services: Photocopying and duplicating services | 7334 | 10.96 | 10.81 | 11.13 | 11.04 | - | 397.85 | 390.24 | 414.04 | 397.44 | - |
| Services to buildings ........................................... | 734 | 7.91 | 7.80 | 8.13 | 8.19 | - | 226.23 | 225.42 | 231.71 | 232.60 | - |
| Disinfecting and pest control services ................... | 7342 | 10.60 | 10.16 | 11.13 | 11.15 | - | 389.02 | 374.90 | 411.81 | 414.78 | - |
| Building maintenance services, nec ..................... | 7349 | 7.58 | 7.51 | 7.75 | 7.80 | - | 210.72 | 211.78 | 213.90 | 215.28 | - |
| Miscellaneous equipment rental and leasing ........... | 735 | 11.95 | 11.89 | 12.50 | 12.47 | - | 467.25 | 464.90 | 481.25 | 481.34 | - |
| Medical equipment rental ................................... | 7352 | 11.25 | 10.93 | 12.16 | 12.20 | - | 417.38 | 412.06 | 443.84 | 455.06 | - |
| Heavy construction equipment rental ................... | 7353 | 15.77 | 15.69 | 16.04 | 16.18 | - | 637.11 | 632.31 | 644.81 | 652.05 | - |
| Equipment rental and leasing, nec ...................... | 7359 | 10.99 | 10.97 | 11.50 | 11.40 | - | 430.81 | 427.83 | 442.75 | 437.76 | - |
| Personnel supply services: |  |  |  |  |  |  |  |  |  |  |  |
| Help supply services ......................................... | 7363 | 9.64 | 9.58 | 10.11 | 10.15 | - | 312.34 | 309.43 | 327.56 | 320.74 | - |
| Computer and data processing services ................ | 737 | 20.09 | 19.75 | 20.93 | 20.88 | - | 769.45 | 754.45 | 805.81 | 797.62 | - |
| Computer programming services .... | 7371 | 23.03 | 22.60 | 24.19 | 24.10 | - | 884.35 | 870.10 | 921.64 | 908.57 | - |
| Computer integrated systems design ................... | 7373 | 20.46 | 20.10 | 20.74 | 20.87 | - | 795.89 | 771.84 | 831.67 | 826.45 | - |
| Information retrieval services .............................. | 7375 | 15.30 | 15.23 | 16.13 | 15.88 | - | 581.40 | 575.69 | 621.01 | 609.79 | - |
| Computer maintenance and repair | 7378 | 14.77 | 14.41 | 15.84 | 15.80 | - | 571.60 | 549.02 | 617.76 | 611.46 | - |
| Miscellaneous business services .......................... | 738 | 9.75 | 9.72 | 10.04 | 10.10 | - | 322.73 | 319.79 | 329.31 | 330.27 | - |
| Detective and armored car services ..................... | 7381 | 7.83 | 7.71 | 8.09 | 8.18 | - | 269.35 | 263.68 | 279.11 | 278.94 | - |
| Security systems services ................................. | 7382 | 12.29 | 12.10 | 13.06 | 13.46 | - | 441.21 | 427.13 | 466.24 | 481.87 | - |
| Auto repair, services, and parking ........................... | 75 | 10.59 | 10.48 | 10.89 | 10.96 | - | 383.36 | 376.23 | 388.77 | 389.08 | - |
| Automotive rentals, without drivers ........................ | 751 | 10.06 | 9.89 | 10.42 | 10.43 | - | 365.18 | 356.04 | 387.62 | 385.91 | - |
| Passenger car rental ......................................... | 7514 | 9.04 | 8.86 | 9.47 | 9.53 | - | 329.06 | 319.85 | 351.34 | 355.47 | - |
| Automobile parking | 752 | 7.79 | 7.47 | 8.16 | 8.13 | - | 261.74 | 245.02 | 269.28 | 259.35 | - |
| Automotive repair shops | 753 | 11.91 | 11.84 | 12.22 | 12.31 | - | 456.15 | 451.10 | 460.69 | 465.32 | - |
| Automotive and tire repair shops | 7532,4 | 12.50 | 12.40 | 12.76 | 12.89 | - | 477.50 | 473.68 | 481.05 | 488.53 | - |
| General automotive repair shops | 7538 | 11.89 | 11.78 | 12.24 | 12.26 | - | 449.44 | 442.93 | 456.55 | 462.20 | - |
| Automotive services, except repair ........................ | 754 | 8.02 | 7.85 | 8.34 | 8.38 | - | 252.63 | 244.14 | 254.37 | 252.24 | - |
| Carwashes ....................................................... | 7542 | 7.00 | 6.96 | 7.29 | 7.43 | - | 200.90 | 196.27 | 199.02 | 199.12 | - |
| Miscellaneous repair services ................................ | 76 | 12.71 | 12.57 | 13.11 | 13.14 | - | 488.06 | 483.95 | 502.11 | 500.63 | - |
| Motion pictures .................................................... | 78 | 14.17 | 14.00 | 14.54 | 14.52 | - | 423.68 | 415.80 | 428.93 | 423.98 | - |
| Motion picture production and services .................. | 781 | 19.85 | 19.59 | 19.96 | 19.97 | - | 776.14 | 769.89 | 768.46 | 764.85 | - |
| Video tape rental ................................................ | 784 | 6.54 | 6.45 | 7.14 | 7.23 | - | 156.31 | 152.87 | 167.79 | 164.12 | - |
| Amusement and recreation services ....................... | 79 | 9.20 | 9.31 | 9.90 | 9.71 | - | 247.48 | 243.92 | 260.37 | 255.37 | - |
| Bowling centers ................................................. | 793 | 7.40 | 7.26 | 7.43 | 7.54 | - | 182.04 | 178.60 | 186.49 | 186.24 | - |
| Misc. amusement and recreation services .............. | 799 | 8.58 | 8.74 | 9.09 | 8.97 | - | 228.23 | 223.74 | 231.80 | 232.32 | - |
| Physical fitness facilities .................................... | 7991 | 8.42 | 8.38 | 8.74 | 8.80 | - | 159.98 | 155.87 | 169.56 | 165.44 | - |
| Membership sports and recreation clubs .............. | 7997 | 8.95 | 9.06 | 9.62 | 9.53 | - | 255.08 | 251.87 | 267.44 | 267.79 | - |
| Health services ..................................................... | 80 | 13.26 | 13.16 | 13.59 | 13.64 | - | 437.58 | 432.96 | 451.19 | 450.12 | - |
| Offices and clinics of medical doctors | 801 | 13.78 | 13.64 | 14.19 | 14.22 | - | 457.50 | 450.12 | 471.11 | 469.26 | - |
| Offices and clinics of dentists | 802 | 13.63 | 13.58 | 13.98 | 14.09 | - | 387.09 | 387.03 | 398.43 | 395.93 | - |
| Offices and clinics of other health practitioners ........ | 804 | 12.50 | 12.33 | 13.16 | 13.25 | - | 378.75 | 373.60 | 401.38 | 394.85 | - |
| Nursing and personal care facilities ....................... | 805 | 9.34 | 9.24 | 9.63 | 9.71 | - | 302.62 | 296.60 | 312.01 | 314.60 | - |
| Intermediate care facilities .................................. | 8052 | 8.81 | 8.67 | 9.13 | 9.19 | - | 281.92 | 274.84 | 289.42 | 291.32 | - |
| Hospitals .......................................................... | 806 | 15.03 | 14.94 | 15.30 | 15.35 | - | 524.55 | 518.42 | 537.03 | 534.18 | - |

See footnotes at end of table.

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolis by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \text { SIC } \\ \text { Code } \end{gathered}$ | Average weekly hours |  |  |  |  | Average overtime hours |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. 1997 | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ 1998 \mathrm{p} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998 \mathrm{P} \end{gathered}$ | Avg. 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ 1998^{\circ} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ |
| Services-Continued <br> Health services-Continued <br> Home health care services |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Legal services ...................................................... | 81 | 34.9 | 34.6 | 35.4 | 34.7 | - | - | - | - | - | - |
| Social services ..................................................... | 83 | 31.3 | 31.0 | 31.3 | 31.1 | - | - | - | - | - | - |
| Individual and family services ............................... | 832 | 31.4 | 31.1 | 31.3 | 31.1 | - | - | - | - | - | - |
| Job training and related services ........................... | 833 | 31.0 | 31.0 | 30.9 | 30.5 | - | - | - | - | - | - |
| Child day care services ....................................... | 835 | 30.0 | 29.8 | 30.0 | 29.9 | - | - | - | - | - | - |
| Aesidential care | 836 | 32.1 | 31.8 | 32.2 | 32.1 | - | - | - | - | - | - |
| Social services, nec ............................................ | 839 | 31.9 | 31.6 | 32.5 | 32.1 | - | - | - | - | - | - |
| Membership organizations: Professional organizations | 862 | 35.1 | 35.0 | 35.5 | 34.8 | - | - | - | - | - | - |
| Prosessional arganizarions |  |  |  |  |  |  |  |  |  |  |  |
| Engineering and management services ................... | 87 | 37.4 | 37.7 | 37.9 | 37.5 | - | - | - | - | - | - |
| Engineering and architectural services ................... | 871 | 39.4 | 39.4 | 39.6 | 39.2 | - | - | - | - | - | - |
| Engineering services ........................................ | 8711 | 39.7 | 39.7 | 39.9 | 39.4 | - | - | - | - | - | - |
| Architectural services ........................................ | 8712 | 38.5 | 38.5 | 38.5 | 38.3 | - | - | - | - | - | - |
| Surveying services ........................................... | 8713 | 38.0 | 37.7 | 38.6 | 38.4 | - | - | - | - | - | - |
| Accounting, auditing, and bookkeeping .................. | 872 | 36.6 | 38.9 | 38.9 | 38.8 | - | - | - | - | - | - |
| Research and testing services .............................. | 873 | 36.8 | 36.5 | 36.3 | 36.0 | - | - | - | - | - | - |
| Commercial physical research ............................ | 8731 | 40.1 | 39.9 | 39.9 | 39.9 | - | - | - | - | - | - |
| Commercial nonphysical research ...................... | 8732 | 30.9 | 30.7 | 30.0 | 29.5 | - | - | - | - | - | - |
| Noncommercial research organizations ................ | 8733 | 36.7 | 36.6 | 35.9 | 35.5 | - | - | - | - | - | - |
| Management and public relations .......................... | 874 | 36.1 | 36.0 | 36.4 | 35.9 | - | - | - | - | - | - |
| Management services ....................................... | 8741 | 35.3 | 35.2 | 35.7 | 34.9 | - | - | - | - | - | - |
| Management consulting services ........................ | 8742 | 36.5 | 36.4 | 36.8 | 36.4 | - | - | - | - | - | - |
| Public relations services .................................... | 8743 | 35.3 | 34.5 | 36.5 | 35.0 | - | - | - | - | - | - |
| Services, nec ....................................................... | 89 | 35.3 | 35.6 | 34.6 | 33.8 | - | - | - | - | - | - |

See footnotes at end of table.

B-15. Average hours and earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by detailed industry-Continued

| Industry | $\begin{gathered} 1987 \\ \mathrm{SIC} \\ \text { Code } \end{gathered}$ | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{gathered} \text { Apr. } \\ 1997 \end{gathered}$ | Mar. 1998 | $\begin{gathered} \text { Apr. } \\ 1998^{p} \end{gathered}$ | $\begin{gathered} \text { May } \\ 1998^{p} \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. <br> 1997 | Mar. 1998 | $\begin{aligned} & \text { Apr. } \\ & \text { 1998P } \end{aligned}$ | $\begin{gathered} \text { May } \\ 1998 \mathrm{p} \end{gathered}$ |
| Services-Continued Health services-Continued |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Legal services ...................................................... | 81 | 17.30 | 17.06 | 17.97 | 17.77 | - | 603.77 | 590.28 | 636.14 | 616.62 | - |
| Social services | 83 | 8.82 | 8.74 | 9.09 | 9.08 | - | 276.07 | 270.94 | 284.52 | 282.39 | - |
| Individual and family services ............................... | 832 | 9.35 | 9.26 | 9.63 | 9.58 | - | 293.59 | 287.99 | 301.42 | 297.94 | - |
| Job training and related services ........................... | 833 | 8.54 | 8.48 | 8.81 | 8.79 | - | 264.74 | 262.88 | 272.23 | 268.10 | - |
| Child day care services ....................................... | 835 | 7.54 | 7.49 | 7.82 | 7.83 | - | 226.20 | 223.20 | 234.60 | 234.12 | - |
| Residential care ................................................. | 836 | 8.93 | 8.86 | 9.16 | 9.22 | - | 286.65 | 281.75 | 294.95 | 295.96 | - |
| Social services, nec ............................................ | 839 | 10.72 | 10.52 | 11.14 | 11.02 | - | 341.97 | 332.43 | 362.05 | 353.74 | - |
| Membership organizations: Professional organizations | 862 | 17.63 | 17.23 | 18.38 | 18.20 | - | 618.81 | 603.05 | 652.49 | 633.36 | - |
| Engineering and management services ................... | 87 | 17.14 | 16.95 | 17.76 | 17.70 | - | 641.04 | 639.02 | 673.10 | 663.75 | - |
| Engineering and architectural services ................... | 871 | 18.94 | 18.90 | 19.67 | 19.53 | - | 746.24 | 744.66 | 778.93 | 765.58 | - |
| Engineering services ......................................... | 8711 | 19.80 | 19.75 | 20.53 | 20.41 | - | 786.06 | 784.08 | 819.15 | 804.15 | - |
| Architectural services ....................................... | 8712 | 16.86 | 16.84 | 17.73 | 17.55 | - | 649.11 | 648.34 | 682.61 | 672.17 | - |
| Surveying services ........................................... | 8713 | 13.33 | 13.33 | 13.59 | 13.62 | - | 506.54 | 502.54 | 524.57 | 523.01 | - |
| Accounting, auditing, and bookkeeping .................. | 872 | 14.69 | 14.39 | 15.31 | 15.04 | - | 537.65 | 559.77 | 595.56 | 583.55 | - |
| Research and testing services ............................. | 873 | 17.75 | 17.72 | 18.37 | 18.37 | - | 653.20 | 646.78 | 666.83 | 661.32 | - |
| Commercial physical research ............................ | 8731 | 19.82 | 19.77 | 20.12 | 20.23 | - | 794.78 | 788.82 | 802.79 | 807.18 | - |
| Commercial nonphysical research ...................... | 8732 | 13.80 | 13.68 | 14.97 | 14.83 | - | 426.42 | 419.98 | 449.10 | 437.49 | - |
| Noncommercial research organizations ............... | 8733 | 20.89 | 20.92 | 21.64 | 21.78 | - | 766.66 | 765.67 | 776.88 | 773.19 | - |
| Management and public relations .......................... | 874 | 16.24 | 16.05 | 16.98 | 17.13 | - | 586.26 | 577.80 | 618.07 | 614.97 | - |
| Management services ....................................... | 8741 | 14.72 | 14.49 | 15.23 | 15.42 | - | 519.62 | 510.05 | 543.71 | 538.16 | - |
| Management consulting services ........................ | 8742 | 18.19 | 18.06 | 19.03 | 19.15 | - | 663.94 | 657.38 | 700.30 | 697.06 | - |
| Public relations services .................................... | 8743 | 14.97 | 14.71 | 15.64 | 15.77 | - | 528.44 | 507.50 | 570.86 | 551.95 | - |
| Services, nec ....................................................... | 89 | 16.87 | 16.89 | 17.55 | 17.71 | - | 595.51 | 601.28 | 607.23 | 598.60 | - |

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 See table B-15a 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 $\$ 253.7$ million or more in 1993 and to Amtrak.

4 Money payments only; tips, not included.
5 Excludes nonotfice commissioned real estate sales agents.

- Data not available.

P = preliminary.
NOTE: Data have been revised to reflect March 1997 benchmarks. See the articie 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 $19 \times 3$.

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 bargaining 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 B-15a 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.

B-15a. 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) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar. 1997 | Apr. 1997 | Mar. 1998 | $\begin{aligned} & \text { Apr. } \\ & 1998 p \end{aligned}$ | Mar. 1997 | Apr. 1997 | Mar. 1998 | Apr. $1999^{\circ}$ |
| Average hourly earnings, excluding lump-sum payments $\qquad$ | \$20.73 | \$20.65 | \$21.03 | \$20.63 | \$20.76 | \$20.53 | \$21.33 | \$20.50 |
| Average hourly earnings, including lump-sum payments | 21.11 | 21.02 | 21.07 | 20.67 | 20.76 | 20.53 | 21.57 | 20.76 |

$\mathrm{P}=$ preliminary.

B-16. Average hourly earnings, excluding overtime, ${ }^{1}$ of production workers on manufacturing payrolls

| Industry | Avg. <br> 1997 | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | Mar. <br> 1998 | $\begin{aligned} & \text { Apr. } \\ & \text { 1998p } \end{aligned}$ | $\begin{gathered} \text { May } \\ 19988 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Manufacturing ....................................................................... | \$12.45 | \$12.39 | \$12.76 | \$12.83 | \$12.77 |
| Durable goods .................................................................... | 12.95 | 12.87 | 13.25 | 13.30 | 13.22 |
| Lumber and wood products ................................................... | 10.23 | 10.11 | 10.41 | 10.47 | (2) |
| Furniture and fixtures. | 10.11 | 10.04 | 10.36 | 10.43 | (2) |
| Stone, clay, and glass products | 12.34 | 12.25 | 12.63 | 12.76 | (2) |
| Primary metal industries ........... | 14.16 | 14.12 | 14.47 | 14.68 | (2) |
| Fabricated metal products | 12.07 | 12.06 | 12.31 | 12.33 | (2) |
| Industrial machinery and equipment ........................................ | 13.23 | 13.13 | 13.50 | 13.63 | (2) |
| Electronic and other electrical equipment ................................. | 12.09 | 11.98 | 12.49 | 12.60 | (2) |
| Transportation equipment . | 16.38 | 16.26 | 16.76 | 16.73 | (2) |
| Insiruments and related products ........................................... | 12.90 | 12.84 | 13.13 | 13.28 | (2) |
| Miscellaneous manufacturing ............................................... | 10.18 | 10.13 | 10.37 | 10.42 | (2) |
| Nondurable goods .............................................................. | 11.71 | 11.68 | 12.02 | 12.14 | \$12.09 |
| Food and kindred products .................................................... | 10.82 | 10.86 | 11.08 | 11.17 | (2) |
| Tobacco products | 18.53 | 19.70 | 17.95 | 18.34 | (2) |
| Textile mill products ............................................................. | 9.50 | 9.44 | 9.77 | 9.90 | (2) |
| Apparel and other textile products .......................................... | 8.02 | 7.99 | 8.20 | 8.28 | (2) |
| Paper and allied products ..................................................... | 14.12 | 14.09 | 14.40 | 14.61 | (2) |
| Printing and publishing ....... | 12.50 | 12.45 | 12.82 | 12.83 | (2) |
| Chemicals and allied products ............................................... | 15.64 | 15.53 | 16.00 | 16.21 | (2) |
| Petroleum and coal products ................................................. | 18.83 | 18.64 | 19.70 | 19.59 | (2) |
| Rubber and misc. plastics products | 10.97 | 10.95 | 11.19 | 11.29 | (2) |
| Leather and leather products ....... | 8.73 | 8.66 | 9.04 | 9.12 | (2) |

1 Derived by assuming that overtime hours are paid at the rate of time and one-half.
2 Not available.
$P=$ proliminary.
NOTE: Data have been revised to reflect March 1997 benchmarks. See the article in this issue for additional information.

ESTABLISHMENT DATA

## EARNINGS

NOT SEASONALLY ADJUSTED
B-17. Average hourly and weekly earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls by major industry, in current and constant (1982) dollars

| Industry | Average hourly earnings |  |  |  |  | Average weekly earnings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | Apr. 1997 | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ | $\begin{aligned} & \text { Avg. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Apr. } \\ & 1997 \end{aligned}$ | $\begin{aligned} & \text { Mar. } \\ & 1998 \end{aligned}$ | Apr. 1998p | $\begin{gathered} \text { May } \\ 1998 p \end{gathered}$ |
| Total private: |  |  |  |  |  |  |  |  |  |  |
| Current dollars | \$12.28 | \$12.18 | \$12.68 | \$12.69 | \$12.70 | \$424.89 | \$418.99 | \$437.46 | \$434.00 | \$438.15 |
| Constant (1982) dollars ............................................... | 7.55 | 7.51 | 7.74 | 7.73 | (2) | 261.31 | 258.32 | 267.07 | 264.31 | (2) |
| Mining: |  |  |  |  |  |  |  |  |  |  |
| Current dollars ........................................................... | 16.17 | 16.08 | 16.89 | 16.82 | \$16.76 | 734.12 | 725.21 | 733.03 | 731.67 | \$744.14 |
| Constant (1982) dollars ............................................... | 9.94 | 9.91 | 10.31 | 10.24 | (2) | 451.49 | 447.11 | 447.52 | 445.60 | (2) |
| Construction: |  |  |  |  |  |  |  |  |  |  |
| Current dollars ............................................................ | 16.03 | 15.78 | 16.29 | 16.35 | \$16.45 | 623.57 | 612.26 | 617.39 | 621.30 | \$646.49 |
| Constant (1982) dollars .............................................. | 9.86 | 9.73 | 9.95 | 9.96 | (2) | 383.50 | 377.47 | 376.92 | 378.38 | (2) |
| Manufacturing: |  |  |  |  |  |  |  |  |  |  |
| Current dollars | 13.17 | 13.08 | 13.47 | 13.46 | \$13.47 | 553.14 | 546.74 | 561.70 | 547.82 | \$560.35 |
| Constant (1982) dollars ............................................... | 8.10 | 8.06 | 8.22 | 8.20 | (2) | 340.18 | 337.08 | 342.92 | 333.63 | (2) |
| Transportation and public utilities: |  |  |  |  |  |  |  |  |  |  |
| Current dollars ............. | 14.93 | 14.81 | 15.24 | 15.26 | \$15.20 | 592.72 | 582.03 | 600.46 | 596.67 | \$603.44 |
| Constant (1982) dollars ............................................... | 9.18 | 9.13 | 9.30 | 9.29 | (2) | 364.53 | 358.83 | 366.58 | 363.38 | (2) |
| Wholesale trade: |  |  |  |  |  |  |  |  |  |  |
| Current dollars ............................................................ | 13.44 | 13.34 | 13.86 | 13.92 | \$13.97 | 516.10 | 510.92 | 532.22 | 530.35 | \$536.45 |
| Constant (1982) dollars ............................................... | 8.27 | 8.22 | 8.46 | 8.48 | (2) | 317.40 | 314.99 | 324.92 | 322.99 | (2) |
| Retail trade |  |  |  |  |  |  |  |  |  |  |
| Current dollars | 8.34 | 8.27 | 8.67 | 8.71 | \$8.73 | 241.03 | 236.52 | 248.83 | 249.98 | \$253.17 |
| Constant (1982) dollars ............................................... | 5.13 | 5.10 | 5.29 | 5.30 | (2) | 148.23 | 145.82 | 151.91 | 152.24 | (2) |
| Finance, insurance, and real estate: |  |  |  |  |  |  |  |  |  |  |
| Current dollars ............................................................ | 13.33 | 13.12 | 13.97 | 13.98 | \$13.97 | 481.21 | 471.01 | 514.10 | 504.68 | \$504.32 |
| Constant (1982) doliars ............................................... | 8.20 | 8.09 | 8.53 | 8.51 | (2) | 295.95 | 290.39 | 313.86 | 307.36 | (2) |
| Services: |  |  |  |  |  |  |  |  |  |  |
| Current dollars ............................................................ | 12.28 | 12.19 | 12.77 | 12.75 | \$12.73 | 400.33 | 394.96 | 417.58 | 413.10 | \$413.73 |
| Constant (1982) dollars .............................................. | 7.55 | 7.52 | 7.80 | 7.76 | (2) | 246.21 | 243.50 | 254.93 | 251.58 | (2) |

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 Not available.
$\mathrm{P}=$ preliminary.
NOTE: The Consumer Price Index for U'rban Wage Earners and Clerical Workers (CPI-W) is used to deflate the earnings series. Data have been revised to reflect March 1997 benchmarks. See the article in this issue for additional information.

B-18. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March <br> 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998P } \end{aligned}$ | April 1997 <br> 1997 | $\begin{aligned} & \text { March } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { April } \\ & \text { 1998P } \end{aligned}$ | $\begin{aligned} & \text { Appil } \\ & 1997 \\ & \hline \end{aligned}$ | $\begin{aligned} & \text { March } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { April } \\ & \text { A998 } \end{aligned}$ |
| Alabama | 41.3 | 41.8 | 41.4 | \$11.78 | \$12.05 | \$11.98 | \$486.51 | \$503.69 | \$495.97 |
| Birmingham | 42.1 | 43.4 | 42.8 | 12.49 | 12.69 | 12.74 | 525.83 | 550.75 | 545.27 |
| Mobile ........ | 43.5 | 44.3 | 44.8 | 13.81 | 14.19 | 14.26 | 600.74 | 628.62 | 638.85 |
| Alaska | 43.7 | 59.6 | 43.4 | 11.02 | 10.13 | 11.11 | 481.57 | 603.75 | 482.17 |
| Arizone | 41.6 | 41.3 | 40.7 | 11.66 | 11.85 | 11.86 | 485.06 | 489.41 | 482.70 |
| Arkansas | 40.8 | 41.7 | 40.4 | 10.69 | 11.00 | 11.02 | 436.15 | 458.70 | 445.21 |
| Fayetteville-Springdale-Rogers | 40.1 | 41.0 | 40.5 | 10.40 | 10.71 | 10.69 | 417.04 | 439.11 | 432.95 |
| Fort Smith | 39.7 | 43.1 | 40.0 | 10.62 | 10.90 | 10.78 | 421.61 | 469.79 | 431.20 |
| Little Rock-North Little Rock | 41.3 | 43.4 | 41.2 | 11.47 | 11.94 | 11.91 | 473.71 | 518.20 | 490.69 |
| Pine Bluft .............. | 41.7 | 40.5 | 40.0 | 12.32 | 12.52 | 12.82 | 513.74 | 507.06 | 512.80 |
| Celliomia | 41.6 | 41.8 | 40.8 | 13.12 | 13.49 | 13.48 | 545.79 | 563.88 | 549.98 |
| Bakersfield | 41.3 | 42.2 | 42.2 | 13.55 | 13.95 | 13.99 | 559.62 | 588.69 | 590.38 |
| Fresno | 40.6 | 40.8 | 40.1 | 11.79 | 12.01 | 12.04 | 478.67 | 490.01 | 482.80 |
| Los Angeles-Long Beach | 42.3 | 42.5 | 41.8 | 12.30 | 12.67 | 12.66 | 520.29 | 538.48 | 529.19 |
| Modesto | 42.6 | 41.5 | 40.3 | 13.42 | 13.70 | 13.68 | 571.69 | 568.55 | 551.30 |
| Oakland | 41.9 | 41.4 | 41.4 | 15.51 | 15.56 | 15.57 | 649.87 | 644.18 | 644.60 |
| Orange County | 42.4 | 43.7 | 42.5 | 12.73 | 12.87 | 12.95 | 539.75 | 562.42 | 550.38 |
| Riverside-San Bernardino | 41.4 | 42.4 | 42.1 | 11.78 | 11.95 | 11.98 | 487.69 | 506.68 | 504.36 |
| Sacramento . | 41.1 | 40.7 | 40.7 | 14.09 | 14.55 | 14.62 | 579.10 | 592.19 | 595.03 |
| Salinas | 37.6 | 36.6 | 38.2 | 13.93 | 14.20 | 14.00 | 523.77 | 519.72 | 534.80 |
| San Diego | 39.7 | 40.3 | 39.7 | 13.17 | 13.54 | 13.54 | 522.85 | 545.66 | 537.54 |
| San Francisco | 40.6 | 41.1 | 40.8 | 14.18 | 14.51 | 14.56 | 575.71 | 596.36 | 594.05 |
| San Jose | 41.5 | 42.6 | 42.3 | 16.33 | 16.62 | 16.67 | 677.70 | 708.01 | 705.14 |
| Santa Barbara-Santa Maria-Lompoc ........................... | 40.8 | 41.9 | 40.9 | 13.51 | 14.28 | 14.10 | 551.21 | 598.33 | 576.69 |
| Santa Rosa | 39.9 | 40.2 | 39.8 | 14.75 | 14.98 | 15.18 | 588.53 | 60220 | 604.16 |
| Stockton-Lodi | 42.3 | 42.0 | 41.1 | 13.25 | 13.45 | 13.52 | 560.48 | 564.90 | 555.67 |
| Vallejo-Fairfield-Napa | 41.0 | 42.2 | 41.4 | 15.33 | 15.58 | 15.52 | 628.53 | 657.48 | 642.53 |
| Ventura | 41.6 | 43.7 | 43.2 | 12.33 | 12.48 | 12.45 | 512.93 | 545.38 | 537.84 |
| Colorado | 41.3 | 41.2 | 41.7 | 13.29 | 13.52 | 13.83 | 548.88 | 557.02 | 576.71 |
| Denver | 40.4 | 41.7 | 43.1 | 13.13 | 12.75 | 13.06 | 530.45 | 531.68 | 562.89 |
| Connecticut | 42.5 | 42.7 | 41.7 | 14.29 | 14.74 | 14.64 | 607.33 | 629.40 | 610.49 |
| Bridgeport | 42.4 | 42.4 | 41.2 | 14.93 | 15.17 | 15.15 | 633.03 | 643.21 | 624.18 |
| Danbury | 43.6 | 43.0 | 41.6 | 14.87 | 14.84 | 14.91 | 648.33 | 638.12 | 620.26 |
| Hattord | 43.0 | 44.0 | 41.7 | 15.26 | 15.64 | 15.52 | 656.18 | 688.16 | 647.18 |
| Now Haven-Meriden ................................................ | 42.3 | 42.5 | 41.1 | 14.23 | 14.64 | 14.78 | 601.93 | 622.20 | 607.46 |
| New London-Norwich | 42.9 | 42.2 | 41.1 | 14.71 | 15.23 | 15.27 | 631.06 | 642.71 | 627.60 |
| Stamford-Norwalk | 40.9 | 40.6 | 39.7 | 13.60 | 13.87 | 13.77 | 556.24 | 563.12 | 546.67 |
| Waterbury ........ | 44.6 | 43.7 | 42.7 | 13.50 | 13.69 | 13.84 | 602.10 | 598.25 | 590.97 |
| Delamere | 41.0 | 41.9 | 41.5 | 14.73 | 15.28 | 15.29 | 603.93 | 640.23 | 634.54 |
| Dover | 40.1 | 40.1 | 40.8 | 13.13 | 13.72 | 13.80 | 526.51 | 550.17 | 563.04 |
| Wilmington-Newark ..................... | 43.0 | 44.3 | 43.4 | 17.71 | 18.60 | 18.71 | 761.53 | 823.98 | 812.01 |
| District of Cofumbla: Washington PMSA | 38.9 | 39.0 | 38.1 | 14.04 | 14.13 | 14.28 | 546.16 | 551.07 | 544.07 |
| Florida | 41.2 | 41.7 | 41.0 | 10.89 | 11.28 | 11.34 | 448.67 | 470.38 | 464.94 |
| Georgia | 42.4 | 41.8 | 41.1 | 11.59 | 11.91 | 12.00 | 491.42 | 497.84 | 493.20 |
| Atlanta | 42.7 | 40.9 | 40.1 | 12.58 | 12.88 | 12.98 | 537.17 | 526.79 | 520.50 |
| Savannah | 46.7 | 46.3 | 45.3 | 13.95 | 14.32 | 14.50 | 651.47 | 663.02 | 656.85 |
| Howell | 38.1 | 37.8 | 36.5 | 13.32 | 13.33 | 13.28 | 507.49 | 503.87 | 484.72 |
| Honolulu | 39.3 | 39.7 | 39.0 | 13.32 | 13.28 | 13.10 | 523.48 | 527.22 | 510.90 |
| Ideho | 39.5 | 37.3 | 37.9 | 12.74 | 12.88 | 13.16 | 503.23 | 480.42 | 498.76 |
| Illinois | 42.2 | 41.4 | 41.5 | 13.33 | 13.61 | 13.68 | 562.53 | 563.45 | 567.72 |
| Bloomington-Normal | 40.3 | 39.1 | 39.5 | 17.10 | 17.28 | 17.37 | 689.13 | 675.65 | 686.12 |
| Champaign-Utana | 41.4 | 41.0 | 41.4 | 10.84 | 11.29 | 11.26 | 448.78 | 462.89 | 466.16 |
| Chicago | 42.0 | 41.3 | 41.3 | 13.18 | 13.47 | 13.48 | 553.56 | 556.31 | 556.72 |
| Davenport-Moline-Rock lsland .................................. | 42.3 | 43.3 | 43.3 | 15.34 | 15.58 | 15.52 | 648.88 | 674.61 | 672.02 |
| Decatur ............................................................... | 43.0 | 42.7 | 42.4 | 16.49 | 16.76 | 16.80 | 709.07 | 715.65 | 712.32 |
| Kankakee | 42.6 | 41.9 | 41.8 | 14.80 | 15.07 | 14.95 | 630.48 | 631.43 | 624.91 |
| Peoria-Pekin | 43.2 | 42.7 | 42.9 | 16.60 | 16.67 | 16.68 | 717.12 | 711.81 | 715.57 |
| Rockford | 43.0 | 42.8 | 43.3 | 15.11 | 15.53 | 15.62 | 649.73 | 664.68 | 676.35 |
| Springfieid | 42.5 | 41.7 | 41.4 | 11.94 | 12.12 | 12.05 | 507.45 | 505.40 | 498.87 |

See footnotes at end of table

B-18. 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 weokly earnings |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April <br> 1997 | $\begin{aligned} & \text { March } \\ & 1998 \end{aligned}$ | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ | April 1997 | March 1998 | $\begin{gathered} \text { April } \\ \text { 1998P } \end{gathered}$ | April <br> 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ |
| Indiena | 43.2 | 42.8 | 42.1 | \$14.71 | \$14.97 | \$14.97 | \$635.47 | \$640.72 | \$630.24 |
| Bboomington | 40.3 | 40.4 | 40.2 | 13.22 | 11.97 | 12.02 | 532.77 | 483.59 | 483.20 |
| Elkhart-Goshen | 39.9 | 39.2 | 39.4 | 12.30 | 12.40 | 12.65 | 490.77 | 486.08 | 498.41 |
| Evansvill-Henderson | 43.3 | 43.3 | 43.2 | 14.36 | 15.07 | 15.01 | 621.79 | 652.53 | 648.43 |
| Fort Wayne ......... | 41.6 | 41.7 | 41.5 | 14.63 | 14.69 | 14.74 | 608.61 | 612.57 | 611.71 |
| Gary ......... | 42.4 | 41.7 | 42.0 | 18.50 | 18.85 | 18.79 | 784.40 | 786.05 | 789.18 |
| Indianapolis | 44.3 | 44.2 | 44.2 | 15.59 | 15.65 | 15.67 | 690.64 | 691.73 | 692.61 |
| Kokomo | 48.9 | 50.9 | 49.2 | 18.62 | 20.89 | 21.04 | 910.52 | 1,063.30 | 1,035.17 |
| Lafayette | 43.5 | 42.8 | 40.8 | 14.90 | 15.93 | 15.33 | 648.15 | 681.80 | 625.46 |
| Muncie | 43.6 | 45.1 | 45.0 | 14.42 | 14.51 | 14.38 | 628.71 | 654.40 | 647.10 |
| South Bend | 41.6 | 39.4 | 40.9 | 13.08 | 12.50 | 12.74 | 544.13 | 492.50 | 521.07 |
| Terre Haute | 42.9 | 44.8 | 44.3 | 14.62 | 14.80 | 15.08 | 627.20 | 663.04 | 668.04 |
| Jowa | 42.2 | 41.5 | 41.5 | 13.50 | 13.85 | 14.01 | 569.70 | 574.78 | 581.42 |
| Cedar Rapids | 43.2 | 41.7 | 39.4 | 16.13 | 17.27 | 17.48 | 696.82 | 720.16 | 688.71 |
| Des Moines | 43.1 | 40.7 | 41.8 | 13.53 | 14.06 | 14.32 | 583.14 | 572.24 | 598.58 |
| Dubuque | 41.4 | 39.4 | 40.8 | 14.80 | 15.03 | 15.16 | 612.72 | 592.18 | 618.53 |
| Sioux City | 39.3 | 41.8 | 41.0 | 10.99 | 11.38 | 11.70 | 431.91 | 475.68 | 479.70 |
| Kansat | 42.1 | 42.1 | 41.6 | 13.43 | 13.82 | 13.66 | 565.40 | 581.82 | 568.26 |
| Topeka | 40.8 | 41.8 | 41.7 | 14.60 | 15.82 | 15.89 | 595.68 | 661.28 | 662.61 |
| Wichita | 43.9 | 43.8 | 42.2 | 15.63 | 16.29 | 15.96 | 686.16 | 713.50 | 673.51 |
| Kentucky | 42.0 | 41.5 | 40.9 | 13.06 | 13.67 | 13.63 | 548.52 | 567.31 | 557.47 |
| Lexington | 43.2 | 42.2 | 41.6 | 13.88 | 13.80 | 13.73 | 599.62 | 582.36 | 571.17 |
| Louisville | 41.9 | 41.3 | 40.8 | 14.62 | 15.18 | 15.11 | 612.58 | 626.93 | 616.49 |
| Loulsiana | 43.7 | 44.6 | 43.3 | 14.01 | 14.87 | 14.83 | 612.24 | 663.20 | 642.14 |
| Baton Rouge | 42.6 | 43.9 | 42.7 | 16.17 | 17.84 | 17.69 | 688.84 | 783.18 | 755.36 |
| New Orleans | 44.5 | 43.8 | 43.1 | 14.33 | 14.63 | 14.50 | 637.69 | 640.79 | 624.95 |
| Shreveport-Bossier City | 42.6 | 42.0 | 41.8 | 13.91 | 14.40 | 14.04 | 592.57 | 604.80 | 586.87 |
| Malne | 40.7 | 40.8 | 40.4 | 13.18 | 13.21 | 13.39 | 536.43 | 538.97 | 540.96 |
| Lewiston-Auburn | 42.5 | 40.0 | 39.1 | 11.16 | 11.32 | 11.34 | 474.30 | 452.80 | 443.39 |
| Portland | 36.4 | 40.7 | 41.6 | 11.00 | 11.29 | 11.21 | 400.40 | 459.50 | 466.34 |
| Maryland | 41.0 | 41.9 | 41.5 | 14.21 | 14.28 | 14.41 | 582.61 | 598.33 | 598.02 |
| Baltimore PMSA | 41.3 | 41.5 | 40.4 | 14.83 | 14.84 | 15.06 | 612.48 | 615.86 | 608.42 |
| Massachusetts | 42.4 | 42.4 | 41.9 | 13.35 | 13.69 | 13.69 | 566.04 | 580.46 | 573.61 |
| Boston | 42.0 | 41.9 | 41.5 | 14.41 | 14.75 | 14.75 | 605.22 | 618.03 | 612.13 |
| Springtield | 41.8 | 41.8 | 41.1 | 12.88 | 13.35 | 13.45 | 538.38 | 558.03 | 552.80 |
| Worcester | 43.1 | 43.2 | 42.5 | 13.43 | 13.76 | 13.81 | 578.83 | 594.43 | 586.93 |
| Michigan | 44.7 | 43.2 | 41.9 | 17.07 | 17.67 | 17.62 | 763.03 | 763.34 | 738.28 |
| Ann Abor | 46.2 | 45.3 | 42.9 | 17.77 | 18.88 | 19.19 | 820.97 | 855.26 | 823.25 |
| Detroit | 45.9 | 44.5 | 42.7 | 18.68 | 19.22 | 19.30 | 857.41 | 855.29 | 824.11 |
| Flint | 47.5 | 43.5 | 43.6 | 22.17 | 24.67 | 24.65 | 1,053.07 | 1,073.14 | 1,074.74 |
| Grand Rapids-Muskegon-Holland | 42.2 | 40.2 | 399 | 14.60 | 14.67 | 14.49 | 616.12 | 58973 | 578.15 |
| Jackson | 41.2 | 43.3 | 40.5 | 13.07 | 12.78 | 12.61 | 538.48 | 55337 | 510.70 |
| Kalamazoo-Battle Creek | 44.2 | 44.7 | 43.2 | 15.34 | 15.34 | 15.60 | 678.03 | 685.70 | 673.92 |
| Lansing East Lansing | 44.9 | 39.8 | 39.8 | 18.42 | 19.39 | 19.32 | 827.06 | 771.72 | 768.94 |
| Saginaw-Bay City-Midand ....................................... | 48.6 | 44.9 | 45.3 | 20.36 | 21.49 | 21.51 | 989.50 | 964.90 | 974.40 |
| Minneeota | 41.2 | 41.3 | 41.0 | 13.63 | 13.92 | 13.84 | 561.56 | 574.90 | 567.44 |
| Duluth-Superior | 39.1 | 41.4 | 41.4 | 12.16 | 12.31 | 12.54 | 475.46 | 509.63 | 519.16 |
| Minneapolis-St. Paul | 41.1 | 42.1 | 41.8 | 14.51 | 14.89 | 14.77 | 596.36 | 626.87 | 617.39 |
| St. Cloud ............... | 41.7 | 44.6 | 432 | 12.72 | 13.51 | 13.02 | 530.42 | 602.55 | 562.46 |
| Mississippi | 41.1 | 41.3 | 40.6 | 10.39 | 10.68 | 10.63 | 427.03 | 441.08 | 431.58 |
| Jackson | 41.7 | 39.1 | 39.0 | 12.07 | 12.01 | 11.96 | 503.32 | 469.59 | 466.44 |
| Miesourl | 41.0 | 41.3 | 40.3 | 12.88 | 13.25 | 13.17 | 528.08 | 547.23 | 530.75 |
| Kansas City | 43.2 | 43.1 | 42.6 | 14.22 | 14.35 | 14.38 | 614.30 | 618.49 | 612.59 |
| St. Louis | 42.6 | 42.5 | 40.5 | 14.92 | 15.71 | 15.59 | 635.59 | 667.68 | 631.40 |
| Springtield | 39.4 | 38.5 | 40.3 | 11.00 | 11.35 | 11.18 | 433.40 | 436.98 | 450.55 |
| Montane | 39.6 | 39.0 | 39.6 | 13.17 | 13.66 | 13.75 | 521.53 | 532.74 | 544.50 |
| Nebraska ................................................................ | 40.2 | 40.6 | 40.8 | 12.05 | 12.15 | 12.23 | 484.41 | 493.29 | 498.98 |
| Lincoln | 45.1 | 43.2 | 43.2 | 13.69 | 13.85 | 14.10 | 617.42 | 598.32 | 609.12 |
| Omaha ................................................................ | 41.5 | 41.6 | 42.0 | 13.29 | 13.34 | 12.78 | 551.54 | 554.94 | 536.76 |
| Nevada | 42.9 | 41.2 | 41.5 | 14.63 | 14.01 | 14.42 | 627.63 | 577.21 | 598.43 |
| Las Vegas | 41.5 | 40.9 | 41.6 | 15.83 | 15.69 | 16.60 | 656.95 | 641.72 | 690.56 |

See footnotes at end of tabie.

B-18. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April <br> 1997 | March <br> 1998 | $\begin{gathered} \text { April } \\ 1998^{p} \end{gathered}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March <br> 1998 | $\begin{aligned} & \text { Aprii } \\ & \text { r998p } \end{aligned}$ | $\begin{aligned} & \text { April } \\ & 1997 \end{aligned}$ | March 1998 | $\begin{gathered} \text { April } \\ 1998^{P} \end{gathered}$ |
| New Hampahire | 42.4 | 41.7 | 40.9 | \$12.38 | \$12.59 | \$12.69 | \$524.91 | \$525.00 | \$519.02 |
| Manchester ... | 41.8 | 38.7 | 40.1 | 13.55 | 14.18 | 13.75 | 566.39 | 548.77 | 551.38 |
| Nashua | 41.6 | 42.0 | 40.4 | 14.51 | 14.38 | 14.70 | 603.62 | 603.96 | 593.88 |
| Portsmouth-Rochester. | 42.8 | 42.3 | 41.9 | 11.47 | 11.79 | 11.87 | 490.92 | 498.72 | 497.35 |
| New Jersey | 41.8 | 41.8 | 40.5 | 14.13 | 14.49 | 14.59 | 590.63 | 605.68 | 590.90 |
| New Mexico | 40.3 | 38.9 | 38.3 | 11.23 | 12.80 | 12.65 | 452.57 | 497.92 | 484.50 |
| Albuquerque | 41.2 | 38.3 | 36.7 | 12.49 | 14.07 | 13.73 | 514.59 | 538.88 | 503.89 |
| New York | 41.1 | 41.4 | 40.3 | 13.12 | 13.48 | 13.54 | 539.23 | 558.07 | 545.66 |
| Albany-Schenectady-Troy | 41.1 | 41.5 | 41.5 | 14.61 | 14.57 | 14.42 | 600.47 | 604.66 | 598.43 |
| Binghamton .................. | 40.7 | 41.3 | 40.5 | 10.43 | 10.72 | 10.77 | 424.50 | 442.74 | 436.19 |
| Butfalo-Niagara Falis | 43.3 | 43.7 | 42.2 | 16.42 | 17.38 | 17.26 | 710.99 | 759.51 | 728.37 |
| Dutchess County | 38.4 | 40.0 | 40.1 | 11.86 | 12.06 | 1218 | 455.42 | 482.40 | 488.42 |
| Elmira | 41.5 | 42.0 | 39.7 | 12.03 | 12.74 | 12.51 | 499.25 | 535.08 | 496.65 |
| Nassau-Suffolk | 40.3 | 40.6 | 39.0 | 12.16 | 12.52 | 12.46 | 490.05 | 508.31 | 485.94 |
| New York PMSA | 38.6 | 39.5 | 38.2 | 11.87 | 12.36 | 12.46 | 458.18 | 488.22 | 475.97 |
| New York City | 38.3 | 39.3 | 37.9 | 11.63 | 12.13 | 12.23 | 445.43 | 476.71 | 463.52 |
| Newburgh | 37.8 | 41.3 | 39.9 | 11.24 | 11.08 | 11.51 | 424.87 | 457.60 | 459.25 |
| Rochester | 43.5 | 42.2 | 41.9 | 14.79 | 14.90 | 14.95 | 643.37 | 628.78 | 626.41 |
| Rockland County | 42.5 | 42.0 | 41.3 | 15.56 | 15.78 | 15.53 | 661.30 | 662.76 | 641.39 |
| Syracuse | 43.3 | 43.6 | 42.5 | 14.56 | 14.43 | 14.40 | 630.45 | 629.15 | 612.00 |
| Utica-Rome | 40.2 | 40.8 | 40.1 | 11.49 | 11.62 | 11.70 | 461.90 | 474.10 | 469.17 |
| Westchester County | 40.5 | 40.5 | 39.4 | 12.43 | 13.04 | 13.17 | 503.42 | 528.12 | 518.90 |
| North Carolina | 41.0 | 41.1 | 40.2 | 11.35 | 11.69 | 11.68 | 465.35 | 480.46 | 469.54 |
| Asheville | 41.6 | 41.1 | 39.6 | 10.93 | 11.43 | 11.39 | 454.69 | 469.77 | 451.04 |
| Charlote-Gastonia-Rock Hill | 41.1 | 41.3 | 40.0 | 12.27 | 12.79 | 12.77 | 504.30 | 528.23 | 510.80 |
| Greensboro-Winston-Salem--High Point | 40.6 | 40.3 | 39.9 | 11.54 | 11.78 | 11.83 | 468.52 | 474.73 | 472.02 |
| Raleigh-Durham-Chapel Hill | 41.7 | 41.4 | 40.3 | 12.30 | 12.77 | 12.75 | 512.91 | 528.68 | 513.83 |
| North Dakota | 38.5 | 40.3 | 40.6 | 11.36 | 11.43 | 11.49 | 437.36 | 460.63 | 466.49 |
| Fargo-Moorhead ...................................................... | 38.0 | 38.3 | 41.5 | 11.40 | 10.51 | 10.47 | 433.20 | 402.53 | 434.51 |
| Ohio | 43.6 | 43.2 | 41.6 | 15.10 | 15.70 | 15.63 | 658.36 | 678.24 | 650.21 |
| Akron | 42.7 | 43.2 | 42.0 | 12.72 | 13.04 | 12.86 | 543.14 | 563.33 | 540.12 |
| Canton-Massilion | 41.4 | 43.2 | 41.4 | 13.39 | 13.81 | 13.87 | 554.35 | 596.59 | 574.22 |
| Cincinnati | 43.0 | 43.4 | 43.3 | 14.40 | 14.98 | 15.09 | 619.20 | 650.13 | 653.40 |
| Cleveland-Lorain-Elyria | 43.9 | 43.4 | 42.2 | 15.02 | 15.26 | 15.10 | 659.38 | 66228 | 637.22 |
| Columbus | 42.3 | 42.7 | 41.5 | 14.16 | 14.63 | 14.68 | 598.97 | 62470 | 609.22 |
| Dayton-Springfield | 44.7 | 43.5 | 42.1 | 16.48 | 16.62 | 16.52 | 736.66 | 722.97 | 695.49 |
| Hamilton-Middletown | 45.6 | 45.6 | 45.3 | 16.61 | 17.19 | 17.44 | 757.42 | 783.86 | 790.03 |
| Lima | 43.9 | 43.1 | 41.9 | 15.98 | 16.11 | 15.80 | 701.52 | 694.34 | 662.02 |
| Mansfield | 44.2 | 43.2 | 40.4 | 15.76 | 16.26 | 15.74 | 696.59 | 702.43 | 635.90 |
| Steubenville-Weirton | 42.3 | 41.8 | 42.6 | 16.04 | 16.57 | 17.37 | 678.49 | 692.63 | 739.96 |
| Toledo | 45.2 | 45.2 | 42.4 | 16.67 | 17.21 | 16.89 | 753.48 | 777.89 | 716.14 |
| Youngstown-Warren | 43.9 | 42.4 | 41.1 | 17.03 | 17.91 | 17.97 | 747.62 | 759.38 | 738.57 |
| Oklahome | 41.7 | 42.4 | 40.8 | 11.78 | 12.31 | 12.48 | 491.23 | 521.94 | 509.18 |
| Oklahoma City | 42.1 | 44.6 | 43.0 | 12.17 | 13.27 | 13.85 | 512.36 | 591.84 | 595.55 |
| Tulsa | 42.3 | 43.7 | 41.4 | 12.79 | 12.86 | 12.82 | 541.02 | 561.98 | 530.75 |
| Oregon | 40.6 | 40.9 | 40.7 | 13.30 | 13.84 | 13.95 | 539.98 | 566.06 | 567.77 |
| Eugene-Springfield | 40.3 | 40.9 | 40.6 | 12.67 | 13.32 | 13.46 | 510.60 | 544.79 | 546.48 |
| Mediord-Ashland | 39.6 | 40.0 | 38.8 | 12.05 | 12.69 | 12.67 | 477.18 | 507.60 | 491.60 |
| Portiand-Vancouver | 40.8 | 41.1 | 40.9 | 13.19 | 13.98 | 14.13 | 538.15 | 574.58 | 577.92 |
| Salem | 39.9 | 39.0 | 39.8 | 11.55 | 11.97 | 12.10 | 460.85 | 466.83 | 481.58 |
| Pennsylvania | 41.7 | 41.9 | 41.0 | 13.69 | 14.01 | 13.98 | 570.87 | 587.02 | 573.18 |
| Allentown-Eethlem-Easton | 41.5 | 42.4 | 42.0 | 13.70 | 14.28 | 14.44 | 568.55 | 605.47 | 606.48 |
| Altoona | 40.7 | 40.3 | 38.8 | 11.49 | 11.93 | 12.14 | 467.64 | 480.78 | 471.03 |
| Erie | 44.0 | 44.9 | 42.1 | 13.66 | 14.22 | 13.92 | 601.04 | 638.48 | 586.03 |
| Harrisburg-Lebanon-Carlisle | 39.8 | 40.2 | 39.8 | 13.09 | 13.38 | 13.39 | 520.98 | 537.88 | 532.92 |
| Johnstown | 40.0 | 39.7 | 39.5 | 10.04 | 10.40 | 10.28 | 401.60 | 412.88 | 406.06 |
| Lancaster | 40.1 | 41.0 | 39.6 | 12.60 | 12.83 | 12.81 | 505.26 | 526.03 | 507.28 |
| Philadelphia PMSA | 41.5 | 41.3 | 40.8 | 14.81 | 15.29 | 15.26 | 614.62 | 631.48 | 622.61 |
| Pittsburgh | 42.2 | 42.7 | 42.5 | 14.68 | 15.07 | 14.86 | 619.50 | 643.49 | 631.55 |
| Reading | 42.7 | 42.1 | 40.4 | 14.96 | 15.17 | 1500 | 638.79 | 638.66 | 606.00 |
| Scranton-Wikes-Barre--Hazleton | 40.9 | 41.1 | 41.2 | 12.43 | 12.68 | 12.59 | 508.39 | 521.15 | 518.71 |
| Sharon | 44.1 | 42.8 | 38.9 | 14.50 | 15.03 | 14.95 | 639.45 | 643.28 | 581.56 |
| State College | 41.8 | 42.5 | 41.0 | 11.83 | 11.99 | 11.94 | 494.49 | 509.58 | 489.54 |
| Williamsport | 40.4 | 40.3 | 39.2 | 11.03 | 11.60 | 11.84 | 445.61 | 467.48 | 464.13 |
| York......... | 41.9 | 42.4 | 41.2 | 14.00 | 14.24 | 14.15 | 586.60 | 603.78 | 582.98 |

See footnotes at end of table.

ESTABLISHMENT DATA
STATE AND AREA HOURS AND EARNINGS
NOT SEASONALLY ADJUSTED
B-18. 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 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | April <br> 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & 199 \mathbb{P}^{8} \end{aligned}$ | April 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & \text { 1998p } \end{aligned}$ | April <br> 1997 | March 1998 | $\begin{aligned} & \text { April } \\ & 1998 \mathrm{p} \end{aligned}$ |
| Rhode Island $\qquad$ <br> Providence-Fall River-Warwick $\qquad$ | 41.0 41.1 | 40.9 41.4 | 40.3 40.3 | $\$ 11.23$ 11.35 | $\$ 11.53$ 11.75 | $\$ 11.52$ 11.86 | $\$ 460.43$ $\mathbf{4 6 6 . 4 9}$ | $\$ 471.58$ $\mathbf{4 8 6 . 4 5}$ | $\$ 464.26$ $\mathbf{4 7 7 . 9 6}$ |
| South Carolina | 42.1 | 42.5 | 42.3 | 10.30 | 10.47 | 10.48 | 433.63 | 444.98 | 443.30 |
| South Dakota | 41.9 | 42.5 | 42.5 | 9.93 | 10.08 | 10.12 | 416.07 | 428.40 | 430.10 |
| Rapid City | 40.4 | 41.1 | 41.2 | 9.72 | 10.31 | 10.36 | 392.69 | 423.74 | 426.83 |
| Sioux Falls | 41.7 | 43.4 | 43.5 | 10.29 | 10.52 | 10.56 | 429.09 | 456.57 | 459.36 |
| Tennessee | 41.0 | 41.1 | 39.8 | 11.57 | 11.91 | 11.99 | 474.37 | 489.50 | 477.20 |
| Chattanooga | 42.9 | 42.3 | 41.3 | 10.73 | 10.98 | 11.05 | 460.32 | 464.45 | 456.37 |
| Johnson City-Kingsport-Bristol | 39.4 | 39.5 | 38.5 | 12.48 | 12.78 | 12.87 | 491.71 | 504.81 | 495.50 |
| Knoxville .... | 40.5 | 40.9 | 40.3 | 10.99 | 11.72 | 11.90 | 445.10 | 479.35 | 479.57 |
| Memphis | 42.0 | 40.1 | 40.7 | 12.08 | 12.46 | 12.71 | 507.36 | 499.65 | 517.30 |
| Nashville | 40.9 | 41.2 | 40.2 | 12.50 | 12.88 | 13.02 | 511.25 | 530.66 | 523.40 |
| Texas | 43.0 | 43.5 | 42.6 | 12.01 | 12.15 | 12.13 | 516.43 | 528.53 | 516.74 |
| Dallas | 43.6 | 42.6 | 42.0 | 12.05 | 12.33 | 12.31 | 525.38 | 525.26 | 517.02 |
| Ft. Worth-Arlington | 43.1 | 43.3 | 42.1 | 12.67 | 12.97 | 13.04 | 546.08 | 561.60 | 548.98 |
| Houston | 44.9 | 45.4 | 45.0 | 13.79 | 14.20 | 14.19 | 619.17 | 644.68 | 638.55 |
| San Antonio | 41.0 | 43.0 | 42.3 | 9.65 | 9.80 | 9.69 | 395.65 | 421.40 | 409.89 |
| Utah | 39.9 | 40.1 | 39.5 | 12.65 | 12.99 | 13.00 | 504.74 | 520.90 | 513.50 |
| Salt Lake City-Ogden | 40.3 | 39.9 | 40.1 | 12.39 | 12.75 | 12.88 | 499.32 | 508.73 | 516.49 |
| Vermont | 40.4 | 40.0 | 38.7 | 12.66 | 12.91 | 12.91 | 511.46 | 516.40 | 499.62 |
| Burlington | 430 | 43.7 | 42.7 | 13.05 | 13.70 | 13.42 | 561.15 | 598.69 | 573.03 |
| Virginla | 41.9 | 41.9 | 41.2 | 12.33 | 12.75 | 12.89 | 516.63 | 534.23 | 531.07 |
| Bristol | 41.8 | 40.9 | 37.5 | 10.59 | 10.51 | 10.31 | 442.66 | 429.86 | 386.63 |
| Charlotesville | 39.6 | 43.0 | 44,6 | 10.04 | 10.59 | 10.18 | 397.58 | 455.37 | 454.03 |
| Danville | 43.8 | 43.1 | 42.9 | 12.46 | 12.83 | 13.38 | 545.75 | 552.97 | 574.00 |
| Lynchburg | 41.7 | 45.9 | 42.3 | 12.11 | 12.57 | 12.50 | 504.99 | 576.96 | 528.75 |
| Northern Virginia | 41.0 | 41.1 | 39.9 | 12.68 | 13.09 | 13.32 | 519.88 | 538.00 | 531.47 |
| Richmond-Petersburg | 42.7 | 40.5 | 40.5 | 15.69 | 15.54 | 16.31 | 669.96 | 629.37 | 660.56 |
| Roanoke | 38.7 | 41.3 | 38.9 | 14.21 | 14.00 | 13.58 | 549.93 | 578.20 | 528.26 |
| Washington | 39.6 | 40.8 | 40.3 | 15.07 | 15.64 | 15.51 | 596.77 | 638.11 | 625.05 |
| West Virginia | 41.7 | 41.6 | 41.3 | 13.21 | 13.51 | 13.95 | 550.86 | 562.02 | 576.14 |
| Charleston | 46.8 | 47.6 | 47.6 | 14.55 | 15.14 | 15.64 | 680.94 | 720.66 | 744.46 |
| Huntington-Ashland | 42.5 | 43.1 | 42.9 | 14.34 | 15.01 | 15.75 | 609.45 | 646.93 | 675.68 |
| Parkersburg-Marietta | 44.4 | 42.7 | 41.8 | 17.26 | 17.15 | 17.14 | 766.34 | 732.31 | 716.45 |
| Wheeling ......... | 41.7 | 38.9 | 39.3 | 14.51 | 15.71 | 16.16 | 605.07 | 611.12 | 635.09 |
| Wheconsin | 42.3 | 41.7 | 41.2 | 13.60 | 13.97 | 13.91 | 575.28 | 582.55 | 573.09 |
| Appleton-Oshkosh-Neenah | 43.8 | 44.6 | 43.5 | 14.62 | 14.89 | 14.91 | 640.36 | 664.09 | 648.59 |
| Eau Claire | 42.8 | 39.8 | 41.7 | 12.68 | 12.89 | 12.49 | 542.70 | 513.02 | 520.83 |
| Green Bay | 42.8 | 41.4 | 40.8 | 14.67 | 15.21 | 15.43 | 627.88 | 629.69 | 629.54 |
| Janesville-Bebit | 45.4 | 42.9 | 41.8 | 17.64 | 17.91 | 17.29 | 800.86 | 768.34 | 722.72 |
| Kenosha | 39.2 | 39.9 | 38.4 | 14.93 | 15.43 | 15.51 | 585.26 | 615.66 | 595.58 |
| La Crosse | 41.5 | 42.8 | 41.9 | 11.88 | 12.22 | 1219 | 493.02 | 523.02 | 510.76 |
| Madison | 41.6 | 40.2 | 39.0 | 12.59 | 12.97 | 13.01 | 523.74 | 521.39 | 507.39 |
| Milwaukee-Waukesha | 42.2 | 42.2 | 40.9 | 14.90 | 15.06 | 14.82 | 628.78 | 635.53 | 606.14 |
| Racine | 41.9 | 40.8 | 38.6 | 13.85 | 14.39 | 14.23 | 580.32 | 587.11 | 549.28 |
| Sheboygan | 42.9 | 41.4 | 41.4 | 13.03 | 13.57 | 13.81 | 558.99 | 561.80 | 571.73 |
| Wausau .... | 43.0 | 41.7 | 42.2 | 13.07 | 13.23 | 13.44 | 562.01 | 551.69 | 567.17 |
| Wyoming | 39.8 | 40.1 | 41.2 | 14.42 | 14.88 | 15.76 | 573.92 | 596.69 | 649.31 |
| Puerto Rico | 39.6 | 39.8 | 38.5 | 7.83 | 8.45 | 8.29 | 310.07 | 336.31 | 319.17 |
| Virgin lelende ........................................................... | 41.9 | 39.4 | 39.1 | 17.99 | 18.32 | 18.86 | 753.78 | 721.81 | 737.43 |

$\mathrm{P}=$ preliminary.
State and area data have been adjusted to March 1997 benchmarks.
NOTE: Area definitions are published annually in the May issue of this publication. All

C-1. Labor force status by census region and division, seasonally adjusted ${ }^{1}$
(Numbers in thousands)

| Census region and division | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.p |
| NORTHEAST |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ...... | 26,094.6 | 26,126.6 | 26,135.7 | 26,159.5 | 26,153.9 | 26,142.6 | 26,140.0 | 26,114.2 | 26,078.5 | 26,077.0 | 26,097.5 | 26,105.9 | 26,042.0 |
| Employed.. | 24,659.9 | 24,693.4 | 24,706.7 | 24,744.0 | 24,748.0 | 24,749.8 | 24,771.1 | 24,769.1 | 24,758.5 | 24,799.0 | 24,806.3 | 24,797.5 | 24,824.5 |
| Unemployed | 1,434.7 | 1,433.2 | 1,428.9 | 1,415.5 | 1,405.9 | 1,392.8 | 1,368.8 | 1,345.1 | 1,320.0 | 1,278.0 | 1,291.1 | 1,308.4 | 1,217.5 |
| Unemployment rate .............. | 5.5 | 5.5 | 5.5 | 5.4 | 5.4 | 5.3 | 5.2 | 5.2 | 5.1 | 4.9 | 4.9 | 5.0 | 4.7 |
| New England |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ....... | 7,112.1 | 7,120.1 | 7,122.9 | 7,128.7 | 7,130.7 | 7,131.3 | 7,140.9 | 7,137.9 | 7,132.8 | 7,130.7 | 7,123.0 | 7,139.0 | 7,102.5 |
| Employed .............. | 6,784.8 | 6,796.7 | 6,803.3 | 6,815.2 | 6,819.0 | 6,822.6 | 6,837.6 | 6,839.4 | 6,840.1 | 6,861.1 | 6,864.6 | 6,862.8 | 6,860.7 |
| Unemployed ......... | 327.3 | 323.4 | 319.6 | 313.5 | 311.7 | 308.7 | 303.3 | 298.5 | 292.7 | 269.7 | 258.4 | 276.2 | 241.7 |
| Unemployment rate .............. | 4.6 | 4.5 | 4.5 | 4.4 | 4.4 | 4.3 | 4.2 | 4.2 | 4.1 | 3.8 | 3.6 | 3.9 | 3.4 |
| Middle Atlantic |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 18,982.5 | 19,006.6 | 19,012.7 | 19,030.8 | 19,023.2 | 19,011.3 | 18,999.1 | 18,976.3 | 18,945.7 | 18,946.3 | 18,974.5 | 18,966.9 | 18,939.5 |
| Employed.... | 17,875.1 | 17,896.7 | 17,903.4 | 17,928.8 | 17,929.0 | 17,927.2 | 17,933.5 | 17,929.8 | 17,918.4 | 17,937.9 | 17,941.7 | 17,934.7 | 17,963.8 |
| Unemployed | 1,107.5 | 1,109.9 | 1,109.3 | 1,102.0 | 1,094.2 | 1,084.1 | 1,065.5 | 1,046.5 | 1,027.3 | 1,008.3 | 1,032.7 | 1,032.2 | 975.8 |
| Unemployment rate .............. | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.7 | 5.6 | 5.5 | 5.4 | 5.3 | 5.4 | 5.4 | 5.2 |
| SOUTH |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force. | 46,960.3 | 47,041.6 | 47,116.6 | 47,215.1 | 47,278.9 | 47,364.2 | 47,490.8 | 47,600.5 | 47,694.8 | 47,816.2 | 47,818.3 | 47,879.6 | 47,922.8 |
| Employed .......................... | 44,599.6 | 44,675.3 | 44,738.5 | 44,861.3 | 44,961.2 | 45,063.7 | 45,245.0 | 45,387.7 | 45,523.3 | 45,689.9 | 45,752.0 | 45,761.0 | 45,871.7 |
| Unemployed ........... | 2,360.6 | 2,366.3 | 2,378.2 | 2,353.9 | 2,317.7 | 2,300.6 | 2,245.9 | 2,212.8 | 2,171.5 | 2,126.3 | 2,066.4 | 2,118.6 | 2,051.1 |
| Unemployment rate .............. | 5.0 | 5.0 | 5.0 | 5.0 | 4.9 | 4.9 | 4.7 | 4.6 | 4.6 | 4.4 | 4.3 | 4.4 | 4.3 |
| South Atlantic |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ... | 24,275.7 | 24,325.9 | 24,365.4 | 24,413.3 | 24,456.8 | 24,502.9 | 24,569.1 | 24,635.4 | 24,677.1 | 24,738.2 | 24,765.7 | 24,763.1 | 24,793.8 |
| Employed ................ | 23,150.4 | 23,197.5 | 23,235.9 | 23,301.7 | 23,355.7 | 23,410.1 | 23,503.8 | 23,575.5 | 23,630.4 | 23,695.5 | 23,724.7 | 23,720.6 | 23,792.4 |
| Unemployed ....................... | 1,125.3 | 1,128.4 | 1,129.5 | 1,111.6 | 1,101.1 | 1,092.8 | 1,065.2 | 1,060.0 | 1,046.7 | 1,042.6 | 1,041.0 | 1,042.5 | 1,001.5 |
| Unemployment rate .............. | 4.6 | 4.6 | 4.6 | 4.6 | 4.5 | 4.5 | 4.3 | 4.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.0 |
| East South Central |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ....... | 8,039.8 | 8,051.5 | 8,067.5 | 8,092.5 | 8,085.8 | 8,097.1 | 8,118.6 | 8,135.3 | 8,145.8 | 8,144.8 | 8,136.3 | 8,167.0 | 8,147.6 |
| Employed ....................... | 7,602.4 | 7,611.7 | 7,622.5 | 7,646.7 | 7,654.0 | 7,663.0 | 7,700.9 | 7,725.7 | 7,748.2 | 7,775.6 | 7,785.3 | 7,784.1 | 7,791.0 |
| Unemployed ...................... | 437.4 | 439.9 | 445.1 | 445.8 | 431.7 | 434.1 | 417.7 | 409.7 | 397.5 | 369.1 | 351.0 | 382.8 | 356.6 |
| Unemployment rate .............. | 5.4 | 5.5 | 5.5 | 5.5 | 5.3 | 5.4 | 5.1 | 5.0 | 4.9 | 4.5 | 4.3 | 4.7 | 4.4 |
| West South Central |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ................. | 14,644.8 | 14,664.2 | 14,683.7 | 14,709.3 | 14,736.4 | 14,764.3 | 14,803.2 | 14,829.8 | 14,871.9 | 14,933.3 | 14,916.3 | 14,949.5 | 14,981.4 |
| Employed.... | 13,846.9 | 13,866.2 | 13,880.1 | 13,912.9 | 13,951.5 | 13,990.6 | 14,040.3 | 14,086.6 | 14,144.7 | 14,218.8 | 14,241.9 | 14,256.2 | 14,288.3 |
| Unemployed ...................... | 798.0 | 798.0 | 803.6 | 796.4 | 784.9 | 773.7 | 762.9 | 743.2 | 727.2 | 714.5 | 674.4 | 693.3 | 693.0 |
| Unemployment rate ... | 5.4 | 5.4 | 5.5 | 5.4 | 5.3 | 5.2 | 5.2 | 5.0 | 4.9 | 4.8 | 4.5 | 4.6 | 4.6 |

See footnotes at end of table.

## LABOR FORCE DATA

REGIONS AND DIVISIONS

## SEASONALLY ADJUSTED

C-1. Labor force status by census region and division, seasonally adjusted ${ }^{1}$ - Continued
(Numbers in thousands)

| Census region and division | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.P |
| MIDWEST |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 32,830.1 | 32,851.3 | 32,860.8 | 32,923.9 | 32,955.3 | 33,007.1 | 33,106.2 | 33,170.2 | 33,246.3 | 33,363.0 | 33,376.7 | 33,383.1 | 33,282.4 |
| Employed. | 31,477.4 | 31,540.1 | 31,553.2 | 31,608.1 | 31,651.0 | 31,697.0 | 31,803.8 | 31,877.5 | 31,959.7 | 32,117.0 | 32,147.6 | 32,126.5 | 32,156.0 |
| Unemployed | 1,352.7 | 1,311.2 | 1,307.6 | 1,315.7 | 1,304.3 | 1,310.2 | 1,302.5 | 1,292.6 | 1,286.6 | 1,246.0 | 1,229.1 | 1,256.6 | 1,126.4 |
| Unemployment rate ........ | 4.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.9 | 3.9 | 3.7 | 3.7 | 3.8 | 3.4 |
| East North Central |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ... | 22,776.4 | 22,795.0 | 22,798.5 | 22,843.0 | 22,859.6 | 22,885.1 | 22,949.1 | 22,987.8 | 23,027.2 | 23,113.2 | 23,114.8 | 23,134.0 | 23,012.8 |
| Employed | 21,795.3 | 21,843.0 | 21,841.8 | 21,872.6 | 21,898.4 | 21,918.7 | 21,982.3 | 22,024.9 | 22,068.0 | 22,182.4 | 22,197.5 | 22,209.7 | 22,204.9 |
| Unemployed | 981.1 | 952.0 | 956.7 | 970.5 | 961.2 | 966.4 | 966.8 | 962.9 | 959.3 | 930.8 | 917.3 | 924.3 | 807.9 |
| Unemployment rate .............. | 4.3 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.0 | 4.0 | 4.0 | 3.5 |
| West North Central |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ................. | 10,053.8 | 10,056.3 | 10,062,3 | 10,080.8 | 10,095.7 | 10,122.0 | 10,157.1 | 10,182.3 | 10,219.1 | 10,249.8 | 10,262.0 | 10,249.1 | 10,269.6 |
| Employed. | 9,682.2 | 9,697.1 | 9,711.4 | 9,735.6 | 9,752.6 | 9,778.2 | 9,821.4 | 9,852.6 | 9,891.7 | 9,934.6 | 9,950.1 | 9,916.8 | 9,951.1 |
| Unemployed | 371.6 | 359.3 | 350.9 | 345.3 | 343.1 | 343.8 | 335.7 | 329.7 | 327.4 | 315.2 | 311.8 | 332.3 | 318.5 |
| Unemployment rate | 3.7 | 3.6 | 3.5 | 3.4 | 3.4 | 3.4 | 3.3 | 3.2 | 3.2 | 3.1 | 3.0 | 3.2 | 3.1 |
| WEST |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 29,829.6 | 29,872.3 | 29,942.0 | 30,058.3 | 30,127.4 | 30,185.9 | 30,265.7 | 30,323.8 | 30,425.5 | 30,478.9 | 30,513.8 | 30,617.8 | 30,589.6 |
| Employed. | 28,124.3 | 28,201.8 | 28,275.7 | 28,404.9 | 28,478.0 | 28,532.5 | 28,634.1 | 28,713.7 | 28,819.0 | 28,893.5 | 28,944.5 | 29,004.2 | 29,000.9 |
| Unemployed.. | 1,705.4 | 1,670.5 | 1,666.3 | 1,653.4 | 1,649.4 | 1,653.4 | 1,631.6 | 1,610.2 | 1,606.5 | 1,585.4 | 1,569.3 | 1,613.7 | 1,588.7 |
| Unemployment rate .............. | 5.7 | 5.6 | 5.6 | 5.5 | 5.5 | 5.5 | 5.4 | 5.3 | 5.3 | 5.2 | 5.1 | 5.3 | 5.2 |
| Mountain |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ... | 8,324.2 | 8,341.8 | 8,365.8 | 8,400.4 | 8,420.9 | 8,458.2 | 8,507.1 | 8,550.2 | 8,599.7 | 8,633.8 | 8,672.2 | 8,685.1 | 8,706.6 |
| Employed ............................ | 7,954.4 | 7,982.2 | 8,009.0 | 8,046.1 | 8,069.8 | 8,107.6 | 8,159.7 | 8,201.2 | 8,250.1 | 8,298.2 | 8,323.7 | 8,317.0 | 8,335.3 |
| Unemployed | 369.8 | 359.6 | 356.8 | 354.3 | 351.1 | 350.6 | 347.5 | 349.0 | 349.7 | 335.6 | 348.5 | 368.1 | 371.4 |
| Unemployment rate ....... | 4.4 | 4.3 | 4.3 | 4.2 | 4.2 | 4.1 | 4.1 | 4.1 | 4.1 | 3.9 | 4.0 | 4.2 | 4.3 |
| Pacific |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ................. | 21,505.4 | 21,530.5 | 21,576.2 | 21,657.9 | 21,706.5 | 21,727.7 | 21,758.6 | 21,773.6 | 21,825.8 | 21,845.1 | 21,841.6 | 21,932.8 | 21,883.0 |
| Employed. | 20,169.8 | 20,219.6 | 20,266.7 | 20,358.8 | 20,408.2 | 20,424.9 | 20,474.5 | 20,512.5 | 20,569.0 | 20,595.3 | 20,620.8 | 20,687.2 | 20,665.6 |
| Unemployed ........................ | 1,335.6 | 1,310.9 | 1,309.5 | 1,299.1 | 1,298.3 | 1,302.8 | 1,284.2 | 1,261.1 | 1,256.8 | 1,249.8 | 1,220.8 | 1,245.6 | 1,217.4 |
| Unemployment rate .............. | 6.2 | 6.1 | 6.1 | 6.0 | 6.0 | 6.0 | 5.9 | 5.8 | 5.8 | 5.7 | 5.6 | 5.7 | 5.6 |

$\mathrm{P}=$ preliminary.
1 These estimates are obtained from summing offical State estimates produced and published through the Local Area Unemployment Statistics (LAUS) program.
NOTE: The States (including the District of Columbia) that compose the various census divisions are: New England: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont; Middle Atlantic: New Jersey, New York, and Pennsylvania; South Atlantic: Delaware, District of Columbia, Florida, Georgia,

Maryland, North Carolina, South Carolina, Virginia, and West Virginia; East South Central: Alabama, Kentucky, Mississippi, and Tennessee; West South Central: Arkansas, Louisiana, Oklahoma, and Texas; East North Central: Illinois, Indiana, Michigan, Ohio, and Wisconsin; West North Central: Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota; Mountain: Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming; and Pacific: Alaska, California, Hawaii, Oregon, and Washington.

C-2. Labor force status by State, seasonally adjusted
(Numbers in thousands)

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ${ }^{\text {P }}$ |
| Alabama |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 2,180.7 | 2,185.8 | 2,187.7 | 2,189.7 | 2,182.2 | 2,178.1 | 2,172.7 | 2,164.6 | 2,154.1 | 2,146.3 | 2,141.6 | 2,149.9 | 2,137.0 |
| Employed ....................... | 2,066.7 | 2,071.6 | 2,071.6 | 2,074.4 | 2,070.3 | 2,067.4 | 2,067.0 | 2,061.9 | 2,055.0 | 2,057.3 | 2,059.8 | 2,060.0 | 2,058.5 |
| Unemployed .................. | 114.1 | 114.2 | 116.1 | 115.3 | 111.9 | 110.7 | 105.7 | 102.7 | 99.1 | 89.1 | 81.8 | 89.9 | 78.4 |
| Unemployment rate .......... | 5.2 | 5.2 | 5.3 | 5.3 | 5.1 | 5.1 | 4.9 | 4.7 | 4.6 | 4.1 | 3.8 | 4.2 | 3.7 |
| Alaska |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 315.3 | 314.3 | 314.9 | 315.6 | 316.1 | 316.7 | 317.0 | 317.4 | 318.5 | 317.6 | 318.0 | 317.4 | 316.3 |
| Employed ....................... | 289.2 | 289.4 | 289.8 | 290.5 | 291.0 | 292.1 | 293.0 | 294.4 | 295.9 | 297.8 | 297.9 | 298.5 | 298.3 |
| Unemployed ................... | 26.1 | 24.9 | 25.1 | 25.1 | 25.1 | 24.5 | 24.0 | 23.1 | 22.6 | 19.8 | 20.1 | 19.0 | 18.1 |
| Unemployment rate .......... | 8.3 | 7.9 | 8.0 | 8.0 | 7.9 | 7.7 | 7.6 | 7.3 | 7.1 | 6.2 | 6.3 | 6.0 | 5.7 |
| Arizona |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 2,141.0 | 2,140.7 | 2,141.3 | 2,147.8 | 2,157.2 | 2,170.8 | 2,188.9 | 2,211.5 | 2,237.7 | 2,243.0 | 2,252.4 | 2,263.3 | 2,269.6 |
| Employed ...................... | 2,035.8 | 2,039.1 | 2,043.0 | 2,050.2 | 2,061.6 | 2,076.2 | 2,095.7 | 2,116.8 | 2,144.7 | 2,159.2 | 2,163.0 | 2,164.4 | 2,169.7 |
| Unemployed ................... | 105.2 | 101.6 | 98.4 | 97.6 | 95.5 | 94.6 | 93.3 | 94.7 | 93.0 | 83.8 | 89.3 | 99.0 | 99.8 |
| Unemployment rate .......... | 4.9 | 4.7 | 4.6 | 4.5 | 4.4 | 4.4 | 4.3 | 4.3 | 4.2 | 3.7 | 4.0 | 4.4 | 4.4 |
| Arkansas |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 1,198.3 | 1,196.6 | 1,199.6 | 1,205.2 | 1,210.2 | 1,213.3 | 1,219.8 | 1.229 .7 | 1,240.6 | 1,245.8 | 1,243.9 | 1,248.9 | 1,249.0 |
| Employed ...................... | 1,135.5 | 1,135.1 | 1,135.2 | 1,139.6 | 1,145.8 | 1,150.3 | 1,158.2 | 1,167.9 | 1,178.5 | 1,180.2 | 1,178.5 | 1,178.8 | 1,184.1 |
| Unemployed .................. | 62.8 | 61.5 | 64.4 | 65.6 | 64.4 | 63.0 | 61.6 | 61.7 | 62.1 | 65.6 | 65.4 | 70.1 | 64.9 |
| Unemployment rate .......... | 5.2 | 5.1 | 5.4 | 5.4 | 5.3 | 5.2 | 5.0 | 5.0 | 5.0 | 5.3 | 5.3 | 5.6 | 5.2 |
| California |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 15,910.2 | 15,935.7 | 15,962.4 | 16,014.3 | 16,050.6 | 16,058.0 | 16,073.4 | 16,086.1 | 16,122.8 | 16,114.0 | 16,147.0 | 16,218.2 | 16,204.2 |
| Employed ...................... | 14,891.5 | 14,927.9 | 14,957.7 | 15,019.5 | 15,054.3 | 15,058.7 | 15,084.1 | 15,112.5 | 15,151.8 | 15,145.7 | 15,189.0 | 15,238.2 | 15,252.3 |
| Unemployed ................... | 1,018.7 | 1,007.8 | 1,004.8 | 994.8 | 996.3 | 999.4 | 989.3 | 973.6 | 971.0 | 968.3 | 958.0 | 980.0 | 951.9 |
| Unemployment rate .......... | 6.4 | 6.3 | 6.3 | 6.2 | 6.2 | 6.2 | 6.2 | 6.1 | 6.0 | 6.0 | 5.9 | 6.0 | 5.9 |
| Colorado |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 2,137.8 | 2,143.9 | 2,154.3 | 2,166.3 | 2,166.9 | 2,177.5 | 2,189.1 | 2,196.4 | 2,199.7 | 2,216.2 | 2,232.9 | 2,231.4 | 2,238.6 |
| Employed ................ | 2,065.6 | 2,073.7 | 2,084.7 | 2,097.7 | 2,098.1 | 2,108.9 | 2,122.6 | 2,129.0 | 2,132.8 | 2,153.1 | 2,165.7 | 2,161.5 | 2,164.7 |
| Unemployed .................. | 72.2 | 70.2 | 69.7 | 68.6 | 68.8 | 68.6 | 66.5 | 67.4 | 66.9 | 63.1 | 67.2 | 69.9 | 73.9 |
| Unemployment rate .......... | 3.4 | 3.3 | 3.2 | 3.2 | 3.2 | 3.1 | 3.0 | 3.1 | 3.0 | 2.8 | 3.0 | 3.1 | 3.3 |
| Connecticut |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ...... | 1,722.2 | 1,721.0 | 1,721.7 | 1,722.0 | 1,722.9 | 1,723.9 | 1,725.7 | 1,726.6 | 1,728.2 | 1,720.0 | 1,716.8 | 1,722.4 | 1,714.7 |
| Employed ................ | 1,629.0 | 1,630.1 | 1,632.2 | 1,634.9 | 1,637.8 | 1,639.7 | 1,643.1 | 1,646.6 | 1,650.7 | 1,654.7 | 1,651.8 | 1,653.0 | 1,647.8 |
| Unemployed .................. | 93.3 | 91.0 | 89.5 | 87.1 | 85.1 | 84.2 | 82.6 | 80.0 | 77.5 | 65.3 | 65.0 | 69.4 | 66.9 |
| Unemployment rate .......... | 5.4 | 5.3 | 5.2 | 5.1 | 4.9 | 4.9 | 4.8 | 4.6 | 4.5 | 3.8 | 3.8 | 4.0 | 3.9 |
| Delaware |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 376.3 | 376.4 | 377.6 | 378.6 | 379.7 | 380.5 | 381.9 | 383.9 | 387.0 | 387.9 | 388.7 | 393.2 | 393.1 |
| Employed .................... | 360.0 | 360.4 | 361.6 | 363.3 | 365.1 | 366.7 | 368.7 | 371.2 | 374.0 | 374.6 | 375.0 | 379.6 | 378.3 |
| Unemployed .................. | 16.3 | 16.0 | 15.9 | 15.3 | 14.6 | 13.8 | 13.3 | 12.7 | 13.0 | 13.3 | 13.6 | 13.6 | 14.8 |
| Unemployment rate .......... | 4.3 | 4.3 | 4.2 | 4.0 | 3.8 | 3.6 | 3.5 | 3.3 | 3.4 | 3.4 | 3.5 | 3.5 | 3.8 |
| District of Columbla |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 258.1 | 256.9 | 254.3 | 255.0 | 256.2 | 256.1 | 255.7 | 255.6 | 255.7 | 258.5 | 260.6 | 260.6 | 268.4 |
| Employed ...................... | 238.2 | 237.2 | 234.7 | 234.9 | 235.6 | 235.0 | 234.6 | 234.8 | 234.9 | 236.7 | 237.0 | 236.3 | 244.6 |
| Unemployed .................. | 19.9 | 19.7 | 19.6 | 20.1 | 20.6 | 21.1 | 21.1 | 20.8 | 20.8 | 21.8 | 23.6 | 24.2 | 23.7 |
| Unemployment rate .......... | 7.7 | 7.7 | 7.7 | 7.9 | 8.0 | 8.2 | 8.3 | 8.1 | 8.1 | 8.4 | 9.1 | 9.3 | 8.8 |
| Florida |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 7,040.6 | 7,061.5 | 7,079.1 | 7,106.1 | 7,129.9 | 7,152.5 | 7,189.9 | 7,221.2 | 7,253.6 | 7,265.1 | 7,258.3 | 7,269.7 | 7,300.5 |
| Employed ....................... | 6,698.5 | 6,720.0 | 6,739.6 | 6,774.0 | 6,796.1 | 6,817.0 | 6,856.0 | 6,884.3 | 6,916.0 | 6,927.2 | 6,922.1 | 6,923.3 | 6,964.3 |
| Unemployed .................. | 342.2 | 341.5 | 339.5 | 332.1 | 333.8 | 335.5 | 333.9 | 337.0 | 337.7 | 337.8 | 336.1 | 346.4 | 336.2 |
| Unemployment rate .......... | 4.9 | 4.8 | 4.8 | 4.7 | 4.7 | 4.7 | 4.6 | 4.7 | 4.7 | 4.7 | 4.6 | 4.8 | 4.6 |

See footnotes at end of table.

C-2. Labor force status by State, seasonally adjusted - Continued
(Numbers in thousands)

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.p |
| Geargia |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 3,895.4 | 3,907.8 | 3,916.5 | 3,915.2 | 3,928.8 | 3,930.3 | 3,932.2 | 3,928.5 | 3,918.0 | 3,928.7 | 3,950.0 | 3,931.6 | 3,959.6 |
| Employed ....................... | 3,712.8 | 3,723.3 | 3,732.6 | 3,734.3 | 3,751.6 | 3,757.2 | 3.765 .3 | 3,764.4 | 3,759.1 | 3,771.7 | 3,786.3 | 3,772.5 | 3,804.0 |
| Unemployed ................... | 182.6 | 184.5 | 183.9 | 180.9 | 177.2 | 173.0 | 166.9 | 164.2 | 158.9 | 157.0 | 163.6 | 159.1 | 155.6 |
| Unemployment rate .......... | 4.7 | 4.7 | 4.7 | 4.6 | 4.5 | 4.4 | 4.2 | 4.2 | 4.1 | 4.0 | 4.1 | 4.0 | 3.9 |
| Hawall |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 590.5 | 590.4 | 591.7 | 592.4 | 592.1 | 592.8 | 592.4 | 592.5 | 593.1 | 593.4 | 592.8 | 592.9 | 592.4 |
| Employed ........................ | 551.7 | 551.5 | 552.5 | 553.6 | 554.4 | 555.2 | 556.3 | 557.1 | 557.7 | 560.4 | 558.7 | 558.6 | 561.1 |
| Unemployed ................... | 38.8 | 38.9 | 39.2 | 38.8 | 37.7 | 37.6 | 36.1 | 35.4 | 35.4 | 33.0 | 34.1 | 34.4 | 31.3 |
| Unemployment rate ......... | 6.6 | 6.6 | 6.6 | 6.5 | 6.4 | 6.3 | 6.1 | 6.0 | 6.0 | 5.6 | 5.7 | 5.8 | 5.3 |
| Idaho |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 630.1 | 631.7 | 633.8 | 634.8 | 634.9 | 636.2 | 638.0 | 638.4 | 641.0 | 640.1 | 641.7 | 644.8 | 646.1 |
| Employed ........................ | 596.1 | 597.9 | 599.8 | 601.4 | 600.8 | 602.5 | 604.2 | 605.8 | 607.4 | 608.1 | 609.5 | 611.2 | 613.0 |
| Unemployed ................... | 34.1 | 33.8 | 33.9 | 33.4 | 34.1 | 33.7 | 33.7 | 32.6 | 33.6 | 32.0 | 32.2 | 33.5 | 33.2 |
| Unemployment rate ......... | 5.4 | 5.4 | 5.4 | 5.3 | 5.4 | 5.3 | 5.3 | 5.1 | 5.2 | 5.0 | 5.0 | 5.2 | 5.1 |
| Illinois |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 6,109.7 | 6,111.1 | 6,115.8 | 6,132.1 | 6,135.3 | 6,133.2 | 6,149.5 | 6,156.7 | 6,162.1 | 6,190.5 | 6,186.3 | 6,189.1 | 6,140.1 |
| Employed ....................... | 5,826.4 | 5,839.8 | 5,834.8 | 5,847.1 | 5,852.1 | 5,849.2 | 5,862.0 | 5,861.9 | 5,867.0 | 5,887.8 | 5,902.8 | 5,909.1 | 5,885.0 |
| Unemployed ................... | 283.2 | 271.2 | 281.0 | 284.9 | 283.2 | 284.0 | 287.6 | 294.8 | 295.1 | 302.7 | 283.6 | 280.0 | 255.0 |
| Unemployment rate .......... | 4.6 | 4.4 | 4.6 | 4.6 | 4.6 | 4.6 | 4.7 | 4.8 | 4.8 | 4.9 | 4.6 | 4.5 | 4.2 |
| Indiana |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 3,087.0 | 3,092.3 | 3,093.6 | 3,098.4 | 3,104.6 | 3,103.6 | 3,111.2 | 3,113.8 | 3,113.0 | 3,115.4 | 3,111.1 | 3,133.9 | 3,116.8 |
| Employed ........................ | 2,980.5 | 2,985.3 | 2,986.6 | 2,989.6 | 2,991.5 | 2,990.9 | 2,997.7 | 3,004.6 | 3,003.9 | 3,013.6 | 3,010.6 | 3,027.0 | 3,029.7 |
| Unemployed .................. | 106.5 | 107.0 | 107.0 | 108.9 | 113.0 | 112.7 | 113.5 | 109.2 | 109.1 | 101.8 | 100.5 | 106.9 | 67.1 |
| Unemployment rate ......... | 3.4 | 3.5 | 3.5 | 3.5 | 3.6 | 3.6 | 3.6 | 3.5 | 3.5 | 3.3 | 3.2 | 3.4 | 2.8 |
| lowa |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 1,577.7 | 1,575.2 | 1,574.6 | 1,572.2 | 1,568.3 | 1.571 .5 | 1,574.0 | 1,573.9 | 1.581 .7 | 1,589.9 | 1,594.3 | 1,588.6 | 1,582.4 |
| Employed ........................ | 1,523.6 | 1,524.1 | 1,523.3 | 1,522.7 | 1,519.1 | 1,523.4 | 1,528.4 | 1,528.6 | 1,535.7 | 1,545.4 | 1,552.9 | 1,547.1 | 1,544.3 |
| Unemployed ................... | 54.0 | 51.1 | 51.3 | 49.5 | 49.2 | 48.1 | 45.7 | 45.3 | 46.0 | 44.5 | 41.4 | 41.5 | 38.1 |
| Unemployment rate ......... | 3.4 | 3.2 | 3.3 | 3.1 | 3.1 | 3.1 | 2.9 | 2.9 | 2.9 | 2.8 | 2.6 | 2.6 | 2.4 |
| Kansas |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 1,349.8 | 1,349.6 | 1,353.5 | 1,365.8 | 1,372.2 | 1,377.5 | 1,386.2 | 1,394.0 | 1,404.4 | 1,407.7 | 1,409.7 | 1,409.8 | 1,414.4 |
| Employed ....................... | 1,297.4 | 1,298.4 | 1,303.5 | 1,315.9 | 1,322.6 | 1,326.9 | 1,335.9 | 1,343.4 | 1,351.6 | 1,358.9 | 1,362.0 | 1,360.3 | 1,367.0 |
| Unemployed ................... | 52.4 | 51.1 | 50.0 | 49.9 | 49.7 | 50.6 | 50.4 | 50.6 | 52.7 | 48.8 | 47.7 | 49.5 | 47.4 |
| Unemployment rate .......... | 3.9 | 3.8 | 3.7 | 3.7 | 3.6 | 3.7 | 3.6 | 3.6 | 3.8 | 3.5 | 3.4 | 3.5 | 3.4 |
| Kentucky |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 1,921.2 | 1,927.4 | 1,931.7 | 1,935.3 | 1,936.5 | 1,934.4 | 1,936.8 | 1,938.7 | 1,937.2 | 1,931.3 | 1,936.3 | 1,945.8 | 1,938.0 |
| Employed ........................ | 1,815.2 | 1,819.5 | 1,825.6 | 1,831.0 | 1,834.8 | 1,834.4 | 1,839.8 | 1,843.8 | 1,844.9 | 1,842.9 | 1,856.5 | 1,858.9 | 1,860.8 |
| Unemployed ................... | 106.0 | 107.9 | 106.1 | 104.3 | 101.7 | 100.0 | 97.0 | 94.9 | 92.3 | 88.4 | 79.9 | 86.9 | 77.2 |
| Unemployment rate ......... | 5.5 | 5.6 | 5.5 | 5.4 | 5.2 | 5.2 | 5.0 | 4.9 | 4.8 | 4.6 | 4.1 | 4.5 | 4.0 |
| Louisiana |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 2,019.3 | 2,022.1 | 2,019.8 | 2,021.3 | 2,024.5 | 2,024.5 | 2,034.1 | 2,037.2 | 2,043.8 | 2,067.6 | 2,038.0 | 2,033.2 | 2,053.8 |
| Employed ........................ | 1,893.8 | 1,891.9 | 1,891.2 | 1,895.9 | 1,901.8 | 1,904.3 | 1,914.4 | 1,917.8 | 1,926.5 | 1,962.3 | 1,949.8 | 1,937.4 | 1,940.3 |
| Unemployed ................... | 125.5 | 130.2 | 128.7 | 125.4 | 122.7 | 120.2 | 119.7 | 119.4 | 117.3 | 105.3 | 88.2 | 95.8 | 113.5 |
| Unemployment rate ......... | 6.2 | 6.4 | 6.4 | 6.2 | 6.1 | 5.9 | 5.9 | 5.9 | 5.7 | 5.1 | 4.3 | 4.7 | 5.5 |
| Maine |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 659.2 | 657.5 | 656.6 | 655.1 | 655.6 | 656.4 | 657.8 | 659.0 | 661.1 | 660.9 | 657.9 | 655.0 | 653.1 |
| Employed ........................ | 622.4 | 621.6 | 620.9 | 620.0 | 620.6 | 621.1 | 622.5 | 624.0 | 626.3 | 627.7 | 627.6 | 626.6 | 627.1 |
| Unempioyed ................... | 36.7 | 35.9 | 35.7 | 35.1 | 35.0 | 35.3 | 35.3 | 35.0 | 34.9 | 33.1 | 30.3 | 28.4 | 26.0 |
| Unemployment rate ......... | 5.6 | 5.5 | 5.4 | 5.4 | 5.3 | 5.4 | 5.4 | 5.3 | 5.3 | 5.0 | 4.6 | 4.3 | 4.0 |

See footnotes at end of table.

C-2. Labor force status by State, seasonally adjusted - Continued
(Numbers in thousands)

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ${ }^{\text {P }}$ |
| Maryland |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ...... | 2,790.2 | 2,790.6 | 2,788.3 | 2,787.0 | 2,781.4 | 2,783.8 | 2,784.1 | 2,789.1 | 2,790.8 | 2,803.7 | 2,802.1 | 2,796.9 | 2,792.4 |
| Employed ...................... | 2,647.3 | 2,646.7 | 2,642.0 | 2,641.7 | 2,638.5 | 2,637.7 | 2,644.5 | 2,651.8 | 2,657.1 | 2,668.8 | 2,667.2 | 2,666.5 | 2,668.6 |
| Unemployed ............ | 142.9 | 143.9 | 146.4 | 145.3 | 142.9 | 146.1 | 139.6 | 137.4 | 133.7 | 134.9 | 134.9 | 130.4 | 123.8 |
| Unemployment rate .......... | 5.1 | 5.2 | 5.2 | 5.2 | 5.1 | 5.2 | 5.0 | 4.9 | 4.8 | 4.8 | 4.8 | 4.7 | 4.4 |
| Massachusetts |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force | 3,261.7 | 3,266.9 | 3,267.7 | 3,269.7 | 3,271.2 | 3,269.1 | 3,268.5 | 3,263.2 | 3,254.5 | 3,258.8 | 3,258.3 | 3,268.4 | 3,244.6 |
| Employed ...................... | 3,126.3 | 3,132.5 | 3,135.1 | 3,138.4 | 3,138.3 | 3,138.0 | 3,141.2 | 3,136.8 | 3,130.3 | 3,141,8 | 3,149.4 | 3,146.5 | 3,149.4 |
| Unemployed .................. | 135.5 | 134.4 | 132.6 | 131.4 | 132.9 | 131.2 | 127.3 | 126.4 | 124.3 | 116.9 | 108.9 | 121.9 | 95.2 |
| Unemployment rate .......... | 4.2 | 4.1 | 4.1 | 4.0 | 4.1 | 4.0 | 3.9 | 3.9 | 3.8 | 3.6 | 3.3 | 3.7 | 2.9 |
| Michigan |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ........ | 4,983.1 | 4,987.5 | 4,977.9 | 4,987.3 | 4.971 .2 | 4,982.3 | 4,999.9 | 5,003.4 | 5,013.0 | 5,047.2 | 5,051.1 | 5,047.6 | 5,027.4 |
| Employed .................. | 4,765.9 | 4,778.7 | 4,771.7 | 4,774.1 | 4,770.5 | 4,779.0 | 4.798 .9 | 4,804.4 | 4,815.7 | 4,849.4 | 4,846.1 | 4,848.8 | 4,851.7 |
| Unemployed .................. | 217.2 | 208.9 | 206.2 | 213.2 | 200.7 | 203.2 | 200.9 | 199.0 | 197.3 | 197.7 | 205.0 | 198.8 | 175.6 |
| Unemployment rate ......... | 4.4 | 4.2 | 4.1 | 4.3 | 4.0 | 4.1 | 4.0 | 4.0 | 3.9 | 3.9 | 4.1 | 3.9 | 3.5 |
| Minnesota |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 2,605.0 | 2,608.9 | 2,614.2 | 2,623.3 | 2,632.5 | $2,640.3$ | 2,650.1 | 2,660.8 | 2,670.8 | 2,672.5 | 2,675.4 | 2,684.1 | 2,692.4 |
| Employed ...................... | 2,513.5 | 2,521.3 | 2,529.1 | 2,538.9 | 2,548.6 | 2,557.0 | 2,568.8 | 2,581.2 | 2,593.5 | 2,600.0 | 2,606.3 | 2,607.0 | 2,624.0 |
| Unemployed ................... | 91.5 | 87.6 | 85.2 | 84.4 | 83.9 | 83.2 | 81.3 | 79.6 | 77.3 | 72.6 | 69.1 | 77.1 | 68.4 |
| Unemployment rate ......... | 3.5 | 3.4 | 3.3 | 3.2 | 3.2 | 3.2 | 3.1 | 3.0 | 2.9 | 2.7 | 2.6 | 2.9 | 2.5 |
| Mississippl |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 1,255.9 | 1,258.0 | 1,258.4 | 1,266.1 | 1,267.7 | 1,272.6 | 1,277.6 | 1,278.4 | 1,279.3 | 1,284.8 | 1,281.5 | 1,289.9 | 1,282.8 |
| Employed ...................... | 1,184.5 | 1,186.9 | 1,186.3 | 1,193.6 | 1,193.8 | 1,196.1 | 1,204.4 | 1,208.8 | 1,213.7 | 1,214.9 | 1,212.4 | 1,214.5 | 1,214.5 |
| Unemployed ................... | 71.4 | 71.1 | 72.1 | 72.5 | 74.0 | 76.5 | 73.2 | 69.6 | 65.6 | 69.8 | 69.1 | 75.4 | 68.3 |
| Unemployment rate .......... | 5.7 | 5.7 | 5.7 | 5.7 | 5.8 | 6.0 | 5.7 | 5.4 | 5.1 | 5.4 | 5.4 | 5.8 | 5.3 |
| Missourl |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 2,885.2 | 2,882.9 | 2,880.4 | 2,876.6 | 2,877.2 | 2,883.0 | 2,892.3 | 2,892.5 | 2,895.0 | 2,911.3 | 2,911.7 | 2,894.8 | 2,910.6 |
| Employed ...................... | 2,759.1 | 2,761.7 | 2,762.3 | 2,759.1 | 2,759.9 | 2,762.8 | 2,772.5 | 2,775.6 | 2,779.2 | 2,796.3 | 2,793.0 | 2,770.2 | 2,781.7 |
| Unemployed ................... | 126.2 | 121.2 | 118.2 | 117.5 | 117.3 | 120.3 | 119.9 | 116.9 | 115.7 | 115.0 | 118.7 | 124.7 | 128.8 |
| Unemployment rate .......... | 4.4 | 4.2 | 4.1 | 4.1 | 4.1 | 4.2 | 4.1 | 4.0 | 4.0 | 4.0 | 4.1 | 4.3 | 4.4 |
| Montana |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor torce ............. | 451.6 | 452.3 | 452.2 | 454.2 | 455.2 | 455.7 | 458.0 | 459.0 | 460.6 | 462.2 | 462.5 | 461.8 | 462.1 |
| Employed ....................... | 426.6 | 428.2 | 427.8 | 429.6 | 430.8 | 431.4 | 433.3 | 434.2 | 435.9 | 437.1 | 438.2 | 436.8 | 436.9 |
| Unemployed .................. | 25.0 | 24.1 | 24.4 | 24.6 | 24.4 | 24.3 | 24.7 | 24.8 | 24.7 | 25.1 | 24.3 | 25.0 | 25.2 |
| Unemployment rate .......... | 5.5 | 5.3 | 5.4 | 5.4 | 5.4 | 5.3 | 5.4 | 5.4 | 5.4 | 5.4 | 5.3 | 5.4 | 5.5 |
| Nebraska |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 897.1 | 898.6 | 900.5 | 903.9 | 906.5 | 910.6 | 913.9 | 919.0 | 923.6 | 924.2 | 926.2 | 926.8 | 926.7 |
| Employed....................... | 872.2 | 873.3 | 875.6 | 880.2 | 883.2 | 888.3 | 893.4 | 899.9 | 905.9 | 907.6 | 908.4 | 906.3 | 908.5 |
| Unemployed ................... | 24.9 | 25.3 | 24.9 | 23.7 | 23.3 | 22.3 | 20.5 | 19.1 | 17.7 | 16.6 | 17.9 | 20.5 | 18.2 |
| Unemployment rate .......... | 2.8 | 2.8 | 2.8 | 2.6 | 2.6 | 2.5 | 2.2 | 2.1 | 1.9 | 1.8 | 1.9 | 2.2 | 2.0 |
| Nevada |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 874.3 | 878.2 | 882.5 | 885.9 | 888.3 | 892.1 | 895.1 | 897.1 | 900.6 | 905.7 | 911.4 | 909.6 | 913.2 |
| Employed...................... | 837.6 | 842.6 | 846.9 | 850.5 | 853.5 | 856.6 | 859.7 | 861.7 | 864.8 | 866.7 | 869.7 | 867.2 | 870.1 |
| Unemployed ................... | 36.7 | 35.6 | 35.6 | 35.4 | 34.8 | 35.6 | 35.4 | 35.4 | 35.8 | 39.0 | 41.8 | 42.4 | 43.1 |
| Unemployment rate .......... | 4.2 | 4.1 | 4.0 | 4.0 | 3.9 | 4.0 | 4.0 | 3.9 | 4.0 | 4.3 | 4.6 | 4.7 | 4.7 |
| New Hampshire |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 640.3 | 644.7 | 647.0 | 650.9 | 649.1 | 648.3 | 652.8 | 653.2 | 651.2 | 653.3 | 652.7 | 652.0 | 653.5 |
| Employed ...................... | 619.4 | 623.9 | 626.0 | 630.8 | 629.5 | 629.1 | 633.3 | 633.7 | 632.1 | 635.4 | 634.6 | 632.7 | 634.9 |
| Unemployed ................... | 20.9 | 20.7 | 21.0 | 20.1 | 19.5 | 19.2 | 19.5 | 19.5 | 19.1 | 17.9 | 18.1 | 19.3 | 18.5 |
| Unemployment rate .......... | 3.3 | 3.2 | 3.2 | 3.1 | 3.0 | 3.0 | 3.0 | 3.0 | 2.9 | 2.7 | 2.8 | 3.0 | 2.8 |

See footnotes at end of table.

## C-2. Labor force status by State, seasonally adjusted - Continued

(Numbers in thousands)

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.p |
| New Jersey |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 4,195.6 | 4,200.0 | 4,205.7 | 4,203.0 | 4,200.5 | 4,197.0 | 4,194.1 | 4,186.2 | 4,178.1 | 4,181.8 | 4,185.9 | 4,192.5 | 4,187.6 |
| Employed ....................... | 3,979.9 | 3,983.3 | 3,987.9 | 3,990.4 | 3,988.7 | 3,984.2 | 3,983.9 | 3,979.3 | 3,971,6 | 3,977.1 | 3,975.3 | 3,978.5 | 3,974.2 |
| Unemployed ................... | 215.7 | 216.8 | 217.8 | 212.6 | 211.8 | 212.8 | 210.1 | 206.9 | 206.6 | 204.7 | 210.6 | 214.0 | 213.5 |
| Unemployment rate .......... | 5.1 | 5.2 | 5.2 | 5.1 | 5.0 | 5.1 | 5.0 | 4.9 | 4.9 | 4.9 | 5.0 | 5.1 | 5.1 |
| New Mexico |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 813.2 | 815.8 | 819.2 | 823.1 | 824.1 | 825.7 | 829.8 | 832.8 | 835.5 | 836.1 | 837.7 | 841.7 | 841.9 |
| Employed ...................... | 762.5 | 766.7 | 770.2 | 773.5 | 775.8 | 776.2 | 779.8 | 781.3 | 782.2 | 784.9 | 785.1 | 787.7 | 790.7 |
| Unemployed .................. | 50.6 | 49.1 | 49.0 | 49.5 | 48.4 | 49.6 | 50.0 | 51.5 | 53.3 | 51.2 | 52.5 | 54.0 | 51.2 |
| Unemployment rate .......... | 6.2 | 6.0 | 6.0 | 6.0 | 5.9 | 6.0 | 6.0 | 6.2 | 6.4 | 6.1 | 6.3 | 6.4 | 6.1 |
| New York |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 8,809.4 | 8,819.6 | 8,825.2 | 8,841.6 | 8,834.9 | 8,825.2 | 8.818 .5 | 8,799.5 | 8,775.9 | 8,786.7 | 8,810.2 | 8,795.3 | 8.773 .0 |
| Employed ...................... | 8,238.7 | 8,247.4 | 8,253.3 | 8,269.8 | 8,266.2 | 8,261.8 | 8,261.5 | 8,252.7 | 8,241,8 | 8,259.4 | 8,267.9 | 8,261.8 | 8,267.5 |
| Unemployed .................. | 570.8 | 572.2 | 571.9 | 571.8 | 568.7 | 563.4 | 557.0 | 546.7 | 534.0 | 527.2 | 542.3 | 533.5 | 505.4 |
| Unemployment rate .......... | 6.5 | 6.5 | 6.5 | 6.5 | 6.4 | 6.4 | 6.3 | 6.2 | 6.1 | 6.0 | 6.2 | 6.1 | 5.8 |
| North Carolina |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 3,846.2 | 3,852.0 | 3,847.3 | 3,850.6 | 3,842.2 | 3,844.3 | 3,842.4 | 3,843.3 | 3,828.0 | 3,842.0 | 3,847.8 | 3,846.9 | 3,822.0 |
| Employed ....................... | 3,713.1 | 3,713.7 | 3,706.9 | 3,710.2 | 3,702.1 | 3,706.3 | 3,705.7 | 3,704.0 | 3,688.2 | 3,703.7 | 3,706.5 | 3,698.0 | 3,682.7 |
| Unemployed .................. | 133.1 | 138.4 | 140.4 | 140.4 | 140.1 | 138.0 | 136.7 | 139.4 | 139.8 | 138.4 | 141.3 | 148.8 | 139.4 |
| Unemployment rate .......... | 3.5 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.7 | 3.6 | 3.7 | 3.9 | 3.6 |
| North Dakola |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 348.5 | 349.9 | 348.2 | 347.6 | 346.9 | 346.7 | 346.1 | 346.3 | 346.1 | 346.2 | 346.0 | 346.4 | 344.8 |
| Employed .................. | 338.5 | 338.7 | 339.0 | 339.1 | 339.0 | 338.9 | 339.5 | 339.2 | 339.1 | 339.8 | 339.4 | 338.0 | 338.2 |
| Unemployed .................. | 10.0 | 11.2 | 9.2 | 8.5 | 7.9 | 7.7 | 6.6 | 7.1 | 7.0 | 6.4 | 6.6 | 8.4 | 6.6 |
| Unemployment rate .......... | 2.9 | 3.2 | 2.7 | 2.5 | 2.3 | 2.2 | 1.9 | 2.0 | 2.0 | 1.8 | 1.9 | 2.4 | 1.9 |
| Ohio |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 5,679.0 | 5,684.7 | 5,687.4 | 5,697.4 | 5,718.4 | 5,732.3 | 5,746.7 | 5,767.0 | 5,786.2 | 5,796.7 | 5,803.6 | 5,805.8 | 5,781.3 |
| Employed ....................... | 5,413.6 | 5,427.3 | 5,434.6 | 5,444.0 | 5,463.1 | 5,473.2 | 5,487.0 | 5,510.9 | 5,531.5 | 5,561.9 | 5,562.7 | 5,558.4 | 5,560.5 |
| Unemployed .................. | 265.5 | 257.4 | 252.8 | 253.4 | 255.3 | 259.0 | 259.7 | 256.1 | 254.6 | 234.7 | 240.9 | 247.5 | 220.8 |
| Unemployment rate .......... | 4.7 | 4.5 | 4.4 | 4.4 | 4.5 | 4.5 | 4.5 | 4.4 | 4.4 | 4.0 | 4.2 | 4.3 | 3.8 |
| Oklahoma |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 1,596.8 | 1,597.2 | 1,596.0 | 1,598.9 | 1,600.0 | 1,603.9 | 1,605.0 | 1,607.7 | 1,607.5 | 1,608.2 | 1,612.4 | 1,616.2 | 1,611.0 |
| Employed ....................... | 1,528.4 | 1,528.8 | 1,527.4 | 1,531.6 | 1,534.0 | 1,538.4 | 1,542.2 | 1,546.9 | 1,550.2 | 1,555.4 | 1,555.6 | 1,558.7 | 1,550.9 |
| Unemployed ................... | 68.4 | 68.4 | 68.6 | 67.3 | 66.0 | 65.6 | 62.8 | 60.8 | 57.3 | 52.7 | 56.9 | 57.5 | 60.1 |
| Unemployment rate .......... | 4.3 | 4.3 | 4.3 | 4.2 | 4.1 | 4.1 | 3.9 | 3.8 | 3.6 | 3.3 | 3.5 | 3.6 | 3.7 |
| Oregon |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 1,712.7 | 1,705.3 | 1.711 .5 | 1,720.4 | 1,738.1 | 1.751 .3 | 1.764 .7 | 1.767 .3 | 1,775.4 | 1,807.9 | 1,774.4 | 1,778.5 | 1,769.2 |
| Employed ...................... | 1.609.4 | 1,609.0 | 1,612.6 | 1,620.2 | 1,638.6 | 1,651.3 | 1,665.7 | 1.670 .8 | 1,681.2 | 1,713.8 | 1,690.5 | 1,691.3 | 1,679.1 |
| Unemployed .................. | 103.3 | 96.4 | 98.8 | 100.2 | 99.5 | 99.9 | 99.0 | 96.5 | 94.2 | 94.1 | 83.9 | 87.2 | 90.1 |
| Unemployment rate .......... | 6.0 | 5.7 | 5.8 | 5.8 | 5.7 | 5.7 | 5.6 | 5.5 | 5.3 | 5.2 | 4.7 | 4.9 | 5.1 |
| Pennsylvania |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............ | 5,977.5 | 5,986.9 | 5,981.9 | 5.986.2 | 5,987.8 | 5,989.1 | 5,986.5 | 5,990.7 | 5,991.7 | 5,977.8 | 5,978.3 | 5,979.1 | 5,978.9 |
| Employed ........................ | 5,656.5 | 5,666.0 | 5,662.2 | 5,668.6 | 5,674.1 | 5,681.3 | 5,688.1 | 5,697.7 | 5,705.0 | 5,701.4 | 5,698.5 | 5,694.3 | 5,722.1 |
| Unemployed ............................. | 321.0 | 320.9 | 319.7 | 317.6 | 313.8 | 307.8 | 298.4 | 292.9 | 286.7 | 276.4 | 279.8 | 284.8 | 256.9 |
| Unemployment rate .......... | 5.4 | 5.4 | 5.3 | 5.3 | 5.2 | 5.1 | 5.0 | 4.9 | 4.8 | 4.6 | 4.7 | 4.8 | 4.3 |
| Rhode Island |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 505.2 | 505.8 | 505.3 | 505.5 | 506.0 | 507.1 | 507.7 | 506.7 | 507.5 | 508.6 | 506.5 | 509.5 | 506.3 |
| Employed ...................... | 477.4 | 477.3 | 477.3 | 478.4 | 479.5 | 480.9 | 481.6 | 481.4 | 482.9 | 484.1 | 481.9 | 483.7 | 481.7 |
| Unemployed .................. | 27.9 | 28.5 | 28.0 | 27.1 | 26.5 | 26.2 | 26.0 | 25.2 | 24.6 | 24.5 | 24.6 | 25.8 | 24.6 |
| Unemployment rate ......... | 5.5 | 5.6 | 5.5 | 5.4 | 5.2 | 5.2 | 5.1 | 5.0 | 4.9 | 4.8 | 4.9 | 5.1 | 4.9 |

See footnotes at end of table.

C-2. Labor force status by State, seasonally adjusted - Continued
(Numbers in thousands)

| State | 1997 |  |  |  |  |  |  |  |  | 1998 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr.p |
| South Carolina |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 1,911.9 | 1,918.1 | 1,923.0 | 1,928.0 | 1,925.4 | 1,918.6 | 1,912.2 | 1,907.7 | 1,902.9 | 1,908.4 | 1,910.4 | 1,902.6 | 1,912.8 |
| Employed ....................... | 1,820.1 | 1,826.7 | 1,833.5 | 1,842.5 | 1,842.9 | 1,839.6 | 1,839.4 | 1,836.9 | 1,832.9 | 1,834.5 | 1,844.5 | 1,856.3 | 1,856.8 |
| Unemployed ................... | 91.8 | 91.4 | 89.5 | 85.5 | 82.5 | 79.0 | 72.8 | 70.8 | 70.0 | 73.8 | 65.8 | 46.2 | 56.0 |
| Unemployment rate .......... | 4.8 | 4.8 | 4.7 | 4.4 | 4.3 | 4.1 | 3.8 | 3.7 | 3.7 | 3.9 | 3.4 | 2.4 | 2.9 |
| South Dakota |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 390.6 | 391.3 | 390.8 | 391.5 | 392.1 | 392.5 | 394.4 | 395.9 | 397.5 | 398.0 | 398.7 | 398.6 | 398.2 |
| Employed .................. | 377.9 | 379.5 | 378.7 | 379.8 | 380.3 | 380.9 | 383.0 | 384.8 | 386.7 | 386.7 | 388.2 | 387.8 | 387.3 |
| Unemployed ................... | 12.7 | 11.8 | 12.1 | 11.7 | 11.8 | 11.6 | 11.3 | 11.2 | 10.8 | 11.3 | 10.5 | 10.8 | 10.9 |
| Unemployment rate .......... | 3.2 | 3.0 | 3.1 | 3.0 | 3.0 | 2.9 | 2.9 | 2.8 | 2.7 | 2.8 | 2.6 | 2.7 | 2.7 |
| Tennessee |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 2,682.0 | 2,680.3 | 2,689.8 | 2,701.5 | 2,699.4 | 2,712.0 | 2,731.5 | 2,753.6 | 2,775.2 | 2,782.4 | 2,776.9 | 2,781.4 | 2,789.8 |
| Employed ........................ | 2,536.1 | 2,533.7 | 2,539.1 | 2,547.8 | 2,555.2 | 2,565.0 | 2,589.6 | 2,611.2 | 2,634.7 | 2,660.5 | 2,656.6 | 2,650.8 | 2,657.2 |
| Unemployed | 145.9 | 146.6 | 150.7 | 153.7 | 144.2 | 146.9 | 141.9 | 142.5 | 140.6 | 121.9 | 120.3 | 130.7 | 132.6 |
| Unemployment rate ......... | 5.4 | 5.5 | 5.6 | 5.7 | 5.3 | 5.4 | 5.2 | 5.2 | 5.1 | 4.4 | 4.3 | 4.7 | 4.8 |
| Texas |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 9,830.4 | 9,848.3 | 9,868.2 | 9,883.9 | 9,901.6 | 9,922.5 | 9,944.2 | 9,955.2 | 9,979.9 | 10,011.7 | 10,022.0 | 10,051.2 | 10,067.6 |
| Employed ........................ | 9,289.1 | 9,310.3 | 9,326.2 | 9,345.7 | 9,369.9 | 9,397.6 | 9,425.5 | 9,454.0 | 9,489.4 | 9,520.9 | 9,558.1 | 9,581.3 | 9,613.0 |
| Unemployed ................... | 541.3 | 538.0 | 541.9 | 538.2 | 531.7 | 524.9 | 518.8 | 501.3 | 490.5 | 490.9 | 463.9 | 469.9 | 454.6 |
| Unemployment rate ......... | 5.5 | 5.5 | 5.5 | 5.4 | 5.4 | 5.3 | 5.2 | 5.0 | 4.9 | 4.9 | 4.6 | 4.7 | 4.5 |
| Utah |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force .............. | 1,027.2 | 1,030.6 | 1,034.0 | 1,038.7 | 1,044.2 | 1,049.7 | 1,056.1 | 1,061.9 | 1,069.7 | 1,076.5 | 1,079.5 | 1,077.5 | 1,080.4 |
| Employed ........................ | 994.7 | 998.2 | 1,001.1 | 1,006.4 | 1,011.7 | 1.017 .6 | 1,024.2 | 1,030.9 | 1,038.8 | 1,045.6 | 1,048.4 | 1,043.9 | 1,045.9 |
| Unemployed ................... | 32.5 | 32.3 | 32.9 | 32.3 | 32.5 | 32.1 | 31.9 | 31.1 | 30.9 | 30.9 | 31.1 | 33.6 | 34.5 |
| Unemployment rate .......... | 3.2 | 3.1 | 3.2 | 3.1 | 3.1 | 3.1 | 3.0 | 2.9 | 2.9 | 2.9 | 2.9 | 3.1 | 3.2 |
| Vermont |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............ | 323.4 | 324.2 | 324.7 | 325.4 | 325.9 | 326.4 | 328.5 | 329.3 | 330.3 | 329.2 | 330.8 | 331.8 | 330.3 |
| Employed ........................ | 310.4 | 311.3 | 311.9 | 312.7 | 313.3 | 313.8 | 315.9 | 316.9 | 318.0 | 317.2 | 319.3 | 320.4 | 319.7 |
| Unemployed ................... | 13.0 | 12.8 | 12.8 | 12.7 | 12.7 | 12.6 | 12.6 | 12.4 | 12.3 | 12.0 | 11.5 | 11.4 | 10.6 |
| Unemployment rate ......... | 4.0 | 4.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.8 | 3.8 | 3.7 | 3.6 | 3.5 | 3.4 | 3.2 |
| Virginia |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 3,351.4 | 3,362.5 | 3,375.7 | 3,389.4 | 3,411.1 | 3,435.0 | 3,465.9 | 3.500 .9 | 3,538.4 | 3,541.0 | 3,547.6 | 3,554.8 | 3,540.3 |
| Employed ....................... | 3,212.0 | 3,223.0 | 3,236.7 | 3,252.9 | 3,276.3 | 3,302.9 | 3,338.8 | 3,376.1 | 3,417.2 | 3,424.7 | 3,431.8 | 3,436.2 | 3,441.7 |
| Unemployed ................... | 139.4 | 139.5 | 139.0 | 136.6 | 134.7 | 132.1 | 127.1 | 124.8 | 121.2 | 116.4 | 115.8 | 118.6 | 98.6 |
| Unemployment rate .......... | 4.2 | 4.1 | 4.1 | 4.0 | 4.0 | 3.8 | 3.7 | 3.6 | 3.4 | 3.3 | 3.3 | 3.3 | 2.8 |
| Washington |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 2.976 .7 | 2,984.7 | 2,995.7 | 3,015.2 | 3,009.7 | 3,008.9 | 3,011.2 | 3,010.2 | 3,016.0 | 3,012.2 | 3,009.4 | 3.025 .7 | 3,000.8 |
| Employed ........................ | 2,827.9 | 2,841.7 | 2,854.1 | 2,875.0 | 2,869.9 | 2,867.6 | 2,875.3 | 2,877.7 | 2,882.4 | 2,877.6 | 2,884.7 | 2,900.7 | 2,874.9 |
| Unemployed ................... | 148.7 | 143.0 | 141.7 | 140.2 | 139.7 | 141.3 | 135.8 | 132.6 | 133.6 | 134.6 | 124.6 | 125.0 | 125.9 |
| Unemployment rate ......... | 5.0 | 4.8 | 4.7 | 4.7 | 4.6 | 4.7 | 4.5 | 4.4 | 4.4 | 4.5 | 4.1 | 4.1 | 4.2 |
| West Virginia |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 805.5 | 800.1 | 803.7 | 803.4 | 802.2 | 801.7 | 804.6 | 805.0 | 802.7 | 802.9 | 800.4 | 807.0 | 804.7 |
| Employed ....................... | 748.4 | 746.6 | 748.3 | 747.9 | 747.4 | 747.6 | 750.8 | 752.1 | 751.0 | 753.7 | 754.2 | 752.0 | 751.4 |
| Unemployed ................... | 57.2 | 53.5 | 55.4 | 55.5 | 54.7 | 54.1 | 53.8 | 52.9 | 51.6 | 49.2 | 46.2 | 55.1 | 53.3 |
| Unemployment rate .......... | 7.1 | 6.7 | 6.9 | 6.9 | 6.8 | 6.7 | 6.7 | 6.6 | 6.4 | 6.1 | 5.8 | 6.8 | 6.6 |
| Wisconsin |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 2,917.6 | 2,919.4 | 2,923.7 | 2,927.8 | 2,930.1 | 2,933.8 | 2,941.9 | 2,947.0 | 2,953.0 | 2,963.4 | 2,962.7 | 2,957.6 | 2,947.3 |
| Employed ....................... | 2,808.9 | 2,811.9 | 2,814.0 | 2,817.8 | 2,821.2 | 2,826.4 | 2,836.7 | 2,843.1 | 2,849.8 | 2,869.6 | 2,875.3 | 2,866.5 | 2,878.0 |
| Unemployed ................... | 108.7 | 107.5 | 109.7 | 110.1 | 108.9 | 107.4 | 105.1 | 103.8 | 103.2 | 93.8 | 87.3 | 91.1 | 69.3 |
| Unemployment rate .......... | 3.7 | 3.7 | 3.8 | 3.8 | 3.7 | 3.7 | 3.6 | 3.5 | 3.5 | 3.2 | 2.9 | 3.1 | 2.4 |
| Wyoming |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ............. | 249.1 | 248.5 | 248.4 | 249.7 | 250.1 | 250.5 | 252.1 | 253.0 | 254.9 | 254.0 | 254.2 | 255.0 | 254.8 |
| Employed ....................... | 235.5 | 235.8 | 235.5 | 236.9 | 237.5 | 238.2 | 240.1 | 241.4 | 243.5 | 243.5 | 244.0 | 244.3 | 244.3 |
| Unemployed ................... | 13.7 | 12.7 | 12.9 | 12.8 | 12.6 | 12.3 | 12.1 | 11.6 | 11.4 | 10.6 | 10.2 | 10.7 | 10.5 |
| Unemployment rate .......... | 5.5 | 5.1 | 5.2 | 5.1 | 5.0 | 4.9 | 4.8 | 4.6 | 4.5 | 4.2 | 4.0 | 4.2 | 4.1 |

$\mathrm{p}=$ preliminary.
NOTE: Data refer to place of residence. All estimates are provisional and will be

C-3. Labor force status by State and metropolitan area
(Numbers in thousands)

| State and area | Civilian labor force |  |  |  | Unemployed |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Number |  |  |  | Percent of labor force |  |  |  |
|  | March |  | April |  | March |  | Apri! |  | March |  | April |  |
|  | 1997 | 1998 | 1997 | 1998p | 1997 | 1998 | 1997 | 19988 | 1997 | 1998 | 1997 | 1998p |
| Alabama | 2,158.3 | 2,134.5 | 2,177.3 | 2,133.8 | 99.2 | 77.8 | 108.1 | 72.6 | 4.6 | 3.6 | 5.0 | 3.4 |
| Anniston. | 54.8 | 53.4 | 55.4 | 53.4 | 2.7 | 2.0 | 2.8 | 2.0 | 4.9 | 3.8 | 5.1 | 3.7 |
| Birmingham | 465.5 | 467.2 | 469.7 | 468.5 | 13.8 | 11.2 | 15.3 | 10.4 | 3.0 | 2.4 | 3.3 | 2.2 |
| Decatur ...... | 72.6 | 71.2 | 72.2 | 70.9 | 3.5 | 2.6 | 3.8 | 2.3 | 4.8 | 3.6 | 5.3 | 3.2 |
| Dothan | 66.8 | 66.6 | 67.4 | 66.5 | 2.9 | 2.0 | 3.2 | 1.7 | 4.4 | 2.9 | 4.8 | 2.6 |
| Florence | 71.2 | 70.0 | 71.6 | 69.9 | 4.2 | 4.5 | 4.8 | 4.7 | 5.9 | 6.4 | 6.7 | 6.7 |
| Gadsden | 49.7 | 50.0 | 50.6 | 50.2 | 2.6 | 1.7 | 2.7 | 1.6 | 5.1 | 3.5 | 5.4 | 3.1 |
| Huntsville | 169.0 | 170.5 | 169.3 | 170.1 | 4.8 | 4.4 | 5.1 | 4.1 | 2.8 | 2.6 | 3.0 | 2.4 |
| Mobile ..... | 267.3 | 266.6 | 270.7 | 266.6 | 12.7 | 8.5 | 13.4 | 8.1 | 4.8 | 3.2 | 5.0 | 3.0 |
| Montgomery .................................................. | 161.3 | 158.0 | 162.0 | 158.5 | 6.4 | 4.5 | 6.8 | 4.2 | 3.9 | 2.8 | 4.2 | 2.6 |
| Tuscaloosa | 82.8 | 84.2 | 83.0 | 84.3 | 2.6 | 1.9 | 2.8 | 1.8 | 3.1 | 2.2 | 3.3 | 2.1 |
| Alaska | 311.3 | 312.1 | 310.2 | 310.8 | 29.9 | 21.7 | 27.1 | 18.8 | 9.6 | 7.0 | 8.7 | 6.0 |
| Anchorage | 137.2 | 139.4 | 135.9 | 139.0 | 9.4 | 6.8 | 8.4 | 6.1 | 6.8 | 4.8 | 6.2 | 4.4 |
| Arizona | 2,112.9 | 2,234.8 | 2,117.5 | 2,244.6 | 89.9 | 83.5 | 91.2 | 85.8 | 4.3 | 3.7 | 4.3 | 3.8 |
| Flagstaff | 57.1 | 58.7 | 57.0 | 60.8 | 4.4 | 4.6 | 4.0 | 3.9 | 7.7 | 7.9 | 7.1 | 6.5 |
| Phoenix-Mesa | 1,388.2 | 1,482.2 | 1,387.7 | 1,486.6 | 41.1 | 37.2 | 38.7 | 35.4 | 3.0 | 2.5 | 2.8 | 2.4 |
| Tucson ........... | 353.1 | 367.8 | 354.1 | 365.4 | 10.9 | 10.4 | 10.5 | 9.7 | 3.1 | 2.8 | 3.0 | 2.7 |
| Yuma .......................................................... | 57.5 | 58.1 | 62.3 | 64.0 | 11.2 | 10.4 | 17.5 | 17.3 | 19.5 | 18.0 | 28.0 | 27.1 |
| Arkansas | 1,194.7 | 1,242.4 | 1,195.7 | 1,245.9 | 66.5 | 71.5 | 58.6 | 60.4 | 5.6 | 5.8 | 4.9 | 4.9 |
| Fayetteville-Springdale-Rogers | 135.2 | 140.5 | 135.6 | 141.3 | 4.5 | 5.4 | 3.9 | 4.3 | 3.3 | 3.8 | 2.9 | 3.1 |
| Fort Smith | 93.9 | 96.3 | 93.7 | 96.7 | 5.0 | 5.1 | 4.5 | 4.3 | 5.3 | 5.3 | 4.8 | 4.5 |
| Jonesboro | 39.7 | 41.8 | 39.4 | 41.8 | 1.8 | 1.9 | 1.6 | 1.6 | 4.6 | 4.5 | 4.1 | 3.9 |
| Little Rock-North Little Rock | 289.4 | 302.7 | 290.1 | 303.9 | 11.3 | 12.4 | 10.5 | 10.7 | 3.9 | 4.1 | 3.6 | 3.5 |
| Pine Bluff .......................... | 35.8 | 36.7 | 35.5 | 36.6 | 2.8 | 3.0 | 2.6 | 2.6 | 7.7 | 8.2 | 7.2 | 7.1 |
| California | 15,777.7 | 16,138.7 | 15,803.9 | 16,098.4 | 1,031.2 | 988.0 | 991.6 | 924.7 | 6.5 | 6.1 | 6.3 | 5.7 |
| Bakersfield | 277.7 | 276.4 | 278.7 | 282.5 | 39.4 | 40.2 | 33.3 | 34.5 | 14.2 | 14.5 | 11.9 | 12.2 |
| Chico-Paradise | 84.8 | 86.4 | 84.9 | 86.3 | 7.9 | 8.2 | 7.4 | 7.6 | 9.3 | 9.4 | 8.8 | 8.8 |
| Fresno ......................................................... | 412.6 | 424.0 | 428.0 | 437.8 | 64.7 | 70.3 | 58.8 | 65.2 | 15.7 | 16.6 | 13.7 | 14.9 |
| Los Angeles-Long Beach | 4,433.1 | 4,596.7 | 4,451.6 | 4,556.8 | 305.9 | 285.3 | 302.8 | 278.9 | 6.9 | 6.2 | 6.8 | 6.1 |
| Merced ......................... | 82.3 | 83.9 | 83.2 | 84.8 | 15.5 | 15.9 | 14.2 | 14.6 | 18.8 | 19.0 | 17.0 | 17.2 |
| Modesto | 194.7 | 200.0 | 196.9 | 201.0 | 29.0 | 28.0 | 28.5 | 26.6 | 14.9 | 14.0 | 14.5 | 13.3 |
| Oakland .......... | 1,164.7 | 1,180.3 | 1,161.2 | 1,175.9 | 48.9 | 45.5 | 48.8 | 43.4 | 4.2 | 3.9 | 4.2 | 3.7 |
| Orange County | 1.366.7 | 1,403.7 | 1,362.1 | 1,400.6 | 43.6 | 39.3 | 43.2 | 37.4 | 3.2 | 2.8 | 3.2 | 2.7 |
| Redding ....................................................... | 71.8 | 72.6 | 71.9 | 72.0 | 7.5 | 7.7 | 6.9 | 6.8 | 10.4 | 10.6 | 9.5 | 9.5 |
| Riverside-San Bernardino ............................... | 1,347.2 | 1,383.0 | 1,341.3 | 1.376.1 | 85.9 | 80.1 | 86.5 | 76.1 | 6.4 | 5.8 | 6.4 | 5.5 |
| Sacramento .......... | 734.4 | 744.2 | 730.7 | 741.2 | 39.9 | 38.0 | 38.4 | 35.4 | 5.4 | 5.1 | 5.3 | 4.8 |
| Salinas | 181.8 | 184.8 | 183.9 | 184.1 | 27.2 | 27.9 | 20.9 | 20.8 | 15.0 | 15.1 | 11.4 | 11.3 |
| San Diego ..................................................... | 1.272 .8 | 1,286.0 | 1,267.9 | 1,281.2 | 54.1 | 45.0 | 53.8 | 41.7 | 4.3 | 3.5 | 4.2 | 3.3 |
| San Francisco ............................................... | 924.0 | 931.4 | 924.8 | 926.9 | 29.2 | 27.6 | 29.2 | 25.9 | 3.2 | 3.0 | 3.2 | 2.8 |
| San Jose ...................................................... | 925.5 | 953.9 | 922.8 | 951.9 | 28.4 | 27.1 | 28.6 | 26.5 | 3.1 | 2.8 | 3.1 | 2.8 |
| San Luis Obispo-Atascadero-Paso Robles | 104.7 | 107.7 | 107.5 | 108.9 | 5.1 | 4.4 | 4.6 | 4.6 | 4.9 | 4.1 | 4.3 | 4.2 |
| Santa Barbara-Santa Maria-Lompoc ................. | 197.1 | 193.1 | 197.1 | 194.0 | 11.1 | 10.4 | 9.4 | 8.3 | 5.6 | 5.4 | 4.8 | 4.3 |
| Santa Cruz-Watsonville | 141.4 | 145.2 | 144.1 | 148.9 | 14.2 | 14.1 | 12.5 | 12.0 | 10.0 | 9.7 | 8.6 | 8.1 |
| Santa Rosa .................................................. | 236.8 | 242.4 | 237.2 | 242.5 | 9.3 | 8.7 | 9.1 | 8.1 | 3.9 | 3.6 | 3.8 | 3.3 |
| Stockton-Lodi | 243.5 | 247.0 | 243.8 | 246.4 | 28.2 | 29.3 | 27.1 | 27.2 | 11.6 | 11.8 | 11.1 | 11.0 |
| Valiejo-Fairfield-Napa ..................................... | 234.8 | 241.8 | 233.8 | 241.7 | 14.9 | 13.3 | 14.4 | 12.3 | 6.3 | 5.5 | 6.1 | 5.1 |
| Ventura | 382.9 | 385.0 | 382.4 | 382.5 | 21.4 | 18.8 | 21.1 | 16.9 | 5.6 | 4.9 | 5.5 | 4.4 |
| Visalia-Tulare-Porterville ................................. | 159.6 | 159.5 | 160.5 | 163.1 | 27.7 | 29.4 | 22.6 | 25.5 | 17.3 | 18.4 | 14.1 | 15.7 |
| Yolo ........................................................... | 86.6 | 86.2 | 85.8 | 86.6 | 5.9 | 5.9 | 4.8 | 5.0 | 6.8 | 6.9 18.7 | 5.6 | 5.8 |
| Yuba City ....................................................... | 55.5 | 57.2 | 56.3 | 57.1 | 9.6 | 10.7 | 8.9 | 10.1 | 17.4 | 18.7 | 15.8 | 17.7 |
| Colorado ......................................................... | 2,100.3 | 2,202.7 | 2,102.8 | 2,203.3 | 75.3 | 72.1 | 64.6 | 66.2 | 3.6 | 3.3 | 3.1 | 3.0 |
| Boulder-Longmont ......................................... | 161.6 | 170.3 | 162.0 | 170.1 | 4.8 | 4.5 | 4.2 | 4.1 | 3.0 | 2.6 | 2.6 | 2.4 |
| Colorado Springs ........................................... | 238.3 | 244.2 | 238.7 1 | 246.4 1.1092 | 9.3 | 9.3 | 8.1 | 8.6 | 3.9 | 3.8 | 3.4 | 3.5 |
| Denver ........................................................ | 1,056.5 | 1,105.6 | 1,059.0 | 1,109.2 | 33.0 | 29.6 | 28.5 | 27.3 | 3.1 | 2.7 | 2.7 | 2.5 |
| Fort Collins-Loveland ...................................... | 128.1 | 135.4 | 129.5 | 136.0 | 4.7 | 4.3 | 3.9 | 3.8 | 3.6 | 3.2 | 3.0 | 2.8 |
| Grand Junction | 55.0 | 57.8 | 54.8 | 57.6 | 2.6 | 2.5 | 2.2 | 2.1 | 4.7 | 4.3 | 4.0 | 3.7 |
| Greeley ....................................................... | 77.7 | 82.4 | 78.3 | 82.2 | 3.4 | 3.0 | 2.8 | 2.7 | 4.4 | 3.7 | 3.5 | 3.3 |
| Pueblo ......................................................... | 57.5 | 62.6 | 57.8 | 62.3 | 2.9 | 4.2 | 2.4 | 3.8 | 5.0 | 6.8 | 4.2 | 6.1 |
| Connecticut .................................................... | 1,710.4 | 1,712.1 | 1,707.6 | 1,700.1 | 94.1 | 70.7 | 88.5 | 62.1 | 5.5 | 4.1 | 5.2 | 3.7 |
| Bridgeport .................................................... | 218.7 | 217.5 | 218.0 | 215.1 | 14.0 | 10.6 | 13.3 | 9.0 | 6.4 | 4.9 | 6.1 | 4.2 |
| Danbury ...................................................... | 106.8 | 108.7 | 106.7 | 108.6 | 3.9 | 3.0 | 3.6 | 2.9 | 3.7 | 2.8 | 3.3 | 2.7 |
| Hartord ........................................................ | 591.3 | 584.5 | 585.6 | 578.0 | 34.5 | 24.9 | 31.4 | 21.0 | 5.8 | 4.3 | 5.4 | 3.6 |
| New Haven-Meriden ....................................... | 269.6 | 267.7 | 273.7 | 267.6 | 14.8 | 10.6 | 15.6 | 10.1 | 5.5 | 4.0 | 5.7 | 3.8 |
| New London-Norwich ..................................... | 150.7 | 153.0 | 150.7 | 152.3 | 8.5 | 7.2 | 7.9 | 6.6 | 5.6 | 4.7 | 5.3 | 4.3 |
| Stamford-Norwalk .......................................... | 189.4 | 194.2 | 189.9 | 193.7 | 6.5 | 5.2 | 5.9 | 4.4 | 3.4 | 2.7 | 3.1 | 2.3 |
| Waterbury .................................................... | 117.0 | 118.9 | 116.0 | 116.9 | 7.8 | 5.9 | 7.3 | 5.2 | 6.7 | 5.0 | 6.3 | 4.4 |
| Delaware ......................................................... | 376.3 | 391.8 | 371.9 | 388.8 | 17.8 | 14.5 | 14.6 | 13.1 | 4.7 | 3.7 | 3.9 | 3.4 |
| Dover .......................................................... | 67.0 | 69.4 | 65.5 | 68.7 | 3.6 | 3.0 | 2.9 | 2.7 | 5.3 | 4.3 | 4.4 | 4.0 |
| Wilmington-Newark ........................................ | 285.5 | 295.1 | 281.8 | 292.1 | 14.5 | 11.7 | 11.8 | 10.6 | 5.1 | 4.0 | 4.2 | 3.6 |

See footnotes at end of table.

C-3. Labor force status by State and metropolitan area-Continued
(Numbers in thousands)

| State and area | Civilian labor force |  |  |  | Unemployed |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Number |  |  |  | Percent of labor force |  |  |  |
|  | March |  | April |  | March |  | April |  | March |  | April |  |
|  | 1997 | 1998 | 1997 | 1998p | 1997 | 1998 | 1997 | 1998 ${ }^{\text {P }}$ | 1997 | 1998 | 1997 | 1998P |
| District of Columbia <br> Washington | 258.0 | 259.3 | 255.0 | 265.2 | 19.5 | 23.6 | 18.2 | 22.1 | 7.6 | 9.1 | 7.2 | 8.3 |
|  | 2,485.8 | 2,561.7 | 2,482.3 | 2,562.2 | 90.0 | 84.0 | 86.2 | 72.9 | 3.6 | 3.3 | 3.5 | 2.8 |
| Florida ............................................................. | 6,966.7 | 7.219 .5 | 6,983.1 | 7,240.8 | 312.1 | 317.0 | 316.7 | 311.3 | 4.5 | 4.4 | 4.5 | 4.3 |
| Daytona Beach $\qquad$ <br> Fort Lauderdale $\qquad$ | 184.4 | 190.5 | 184.9 | 190.2 | 6.9 | 7.0 | 6.9 | 6.6 | 3.7 | 3.7 | 3.7 | 3.5 |
|  | 733.7 | 760.6 | 734.6 | 761.4 | 34.1 | 37.5 | 35.6 | 37.3 | 4.7 | 4.9 | 4.9 | 4.9 |
| Fort Myers-Cape Coral .. | 170.7 | 172.4 | 170.1 | 172.0 | 5.5 | 5.5 | 5.8 | 5.1 | 3.2 | 3.2 | 3.4 | 2.9 |
| Fort Pierce-Port St. Lucie ................................ | 119.8 | 121.3 | 118.9 | 121.1 | 9.0 | 8.3 | 8.8 | 8.0 | 7.5 | 6.9 | 7.4 | 6.6 |
| Fort Walton Beach ........................................... | 75.6 | 79.2 | 77.2 | 80.2 | 2.7 | 2.9 | 2.6 | 2.7 | 3.6 | 3.7 | 3.3 | 3.3 |
| Gainesville .................................................. | 99.4 | 102.7 | 100.2 | 103.3 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.7 |
|  | 512.7 | 536.9 | 518.3 | 542.0 | 18.1 | 18.2 | 18.0 | 17.8 | 3.5 | 3.4 | 3.5 | 3.3 |
|  | 192.5 | 196.6 | 193.0 | 196.8 | 10.3 | 9.3 | 10.3 | 8.9 | 5.3 | 4.7 | 5.3 | 4.5 |
| Lakeland-Winter Haven $\qquad$ Melbourne-Titusville-Palm Bay | 198.4 | 203.3 | 199.5 | 203.9 | 9.0 | 9.0 | 9.3 | 8.9 | 4.5 | 4.4 | 4.6 | 4.3 |
| Miami ............. | 1,026.7 | 1,043.8 | 1,024.9 | 1,044.1 | 70.5 | 70.0 | 73.0 | 71.0 | 6.9 | 6.7 | 7.1 | 6.8 |
|  | 86.6 | 89.5 | 85.2 | 88.9 | 3.4 | 2.9 | 3.1 | 2.7 | 3.9 | 3.3 | 3.6 | 3.1 |
| Ocala. | 92.4 | 94.8 | 92.2 | 95.2 | 4.4 | 4.1 | 4.2 | 3.8 | 4.8 | 4.3 | 4.5 | 4.0 |
| Orlando | 789.2 | 828.0 | 794.4 | 833.4 | 26.1 | 25.7 | 26.2 | 25.0 | 3.3 | 3.1 | 3.3 | 3.0 |
| Panama City | 64.3 | 67.1 | 65.4 | 67.5 | 4.1 | 4.9 | 3.7 | 3.9 | 6.3 | 7.2 | 5.7 | 5.8 |
| Pensacola ... | 165.2 | 170.5 | 166.0 | 171.9 | 6.5 | 7.2 | 6.6 | 7.3 | 3.9 | 4.2 | 4.0 | 4.3 |
|  | 45.7 | 46.6 | 45.6 | 46.3 | 1.8 | 1.7 | 1.8 | 1.6 | 4.0 | 3.7 | 4.0 | 3.5 |
| Sarasota-Bradenton | 255.3 | 274.9 | 256.8 | 276.6 | 6.5 | 6.6 | 6.9 | 6.9 | 2.5 | 2.4 | 2.7 | 2.5 |
|  | 140.2 | 142.7 | 140.7 | 143.5 | 4.1 | 4.7 | 4.1 | 4.6 | 2.9 | 3.3 | 2.9 | 3.2 |
| Tampa-St. Petersburg-ClearwaterWest Palm Beach-Boca Raton .... | 1,112.0 | 1.159.5 | 1,111.3 | 1,161.0 | 37.3 | 38.5 | 37.9 | 37.0 | 3.4 | 3.3 | 3.4 | 3.2 |
|  | 474.2 | 493.6 | 474.8 | 496.3 | 26.8 | 26.4 | 26.9 | 27.4 | 5.6 | 5.3 | 5.7 | 5.5 |
| Georgia | 3,893.9 | 3,938.5 | 3,876.7 | 3,939.8 | 184.4 | 158.4 | 166.7 | 139.7 | 4.7 | 4.0 | 4.3 | 3.5 |
| Albany . | 57.5 | 57.5 | 57.3 | 57.5 | 3.6 | 4.4 | 3.4 | 3.9 | 6.2 | 7.7 | 5.9 | 6.7 |
| Athens | 72.9 | 74.7 | 73.3 | 74.4 | 2.2 | 2.2 | 1.9 | 2.0 | 3.1 | 3.0 | 2.6 | 2.7 |
| Atlanta | 2.046 .2 | 2,083.4 | 2,040.9 | 2,087.9 | 78.3 | 65.9 | 72.9 | 58.9 | 3.8 | 3.2 | 3.6 | 2.8 |
| Augusta-Aiken | 204.7 | 201.7 | 204.5 | 202.5 | 12.9 | 9.3 | 11.7 | 8.6 | 6.3 | 4.6 | 5.7 | 4.2 |
| Columbus ...... | 122.4 | 122.5 | 122.0 | 122.5 | 5.8 | 5.2 | 5.5 | 4.8 | 4.7 | 4.2 | 4.5 | 4.0 |
| Macon $\qquad$ Savannah | 152.7 | 154.4 | 151.8 | 154.2 | 8.0 | 7.7 | 7.0 | 7.0 | 5.3 | 5.0 | 4.6 | 4.5 |
|  | 134.8 | 133.2 | 133.8 | 133.4 | 7.7 | 5.3 | 6.3 | 4.8 | 5.7 | 4.0 | 4.7 | 3.6 |
| Hawail | 590.3 | 591.4 | 590.9 | 592.7 | 37.5 | 32.8 | 39.2 | 31.7 | 6.4 | 5.5 | 6.6 | 5.3 |
| Honolulu | 425.0 | 424.9 | 425.3 | 426.1 | 22.6 | 19.6 | 23.0 | 19.4 | 5.3 | 4.6 | 5.4 | 4.5 |
| Idaho | 622.1 | 638.5 | 623.4 | 639.3 | 40.4 | 39.8 | 36.0 | 35.1 | 6.5 | 6.2 | 5.8 | 5.5 |
| Boise City | 210.8 | 217.8 | 210.4 | 216.7 | 8.6 | 8.6 | 8.1 | 8.1 | 4.1 | 4.0 | 3.9 | 3.7 |
| Pocatello | 39.3 | 40.9 | 38.9 | 40.6 | 2.3 | 2.2 | 2.0 | 2.0 | 5.9 | 5.5 | 5.2 | 4.9 |
| lilinois | 6.073 .9 | 6.147.6 | 6,076.9 | 6,107.3 | 310.4 | 297.7 | 279.8 | 251.7 | 5.1 | 4.8 | 4.6 | 4.1 |
| Bloomington-Normal | 80.3 | 83.4 | 81.0 | 83.3 | 2.3 | 2.4 | 2.0 | 2.0 | 2.9 | 2.9 | 2.4 | 2.4 |
| Champaign-Urbana | 94.2 | 95.0 | 93.7 | 93.6 | 2.8 | 3.1 | 2.6 | 2.4 | 3.0 | 3.3 | 2.7 | 2.6 |
| Chicago ............... | 4.036.9 | 4,095.5 | 4,038.5 | 4,065.6 | 198.2 | 186.6 | 181.2 | 161.0 | 4.9 | 4.6 | 4.5 | 4.0 |
| Davenport-Moline-Rock Island | 182.1 | 185.9 | 182.1 | 185.2 | 7.9 | 7.0 | 6.9 | 5.7 | 4.4 | 3.8 | 3.8 | 3.1 |
| Decatur ............................... | 57.9 | 57.4 | 58.4 | 57.6 | 4.4 | 3.4 | 4.1 | 3.1 | 7.6 | 5.9 | 7.0 | 5.3 |
| Kankakee . | 51.2 | 51.7 | 51.3 | 51.5 | 3.3 | 3.4 | 2.9 | 2.9 | 6.5 | 6.5 | 5.7 | 5.7 |
| Peoria-Pekin | 178.6 | 181.6 | 179.7 | 180.3 | 9.0 | 7.7 | 7.9 | 5.8 | 5.0 | 4.2 | 4.4 | 3.2 |
| Rockiord ... | 193.1 | 196.2 | 193.6 | 194.5 | 9.0 | 9.3 | 8.0 | 7.7 | 4.7 | 4.7 | 4.1 | 3.9 |
| Springfield | 104.4 | 106.1 | 105.1 | 105.7 | 4.7 | 4.8 | 4.2 | 3.8 | 4.5 | 4.5 | 4.0 | 3.6 |
| Indiana | 3.050 .8 | 3,105.4 | 3,083.5 | 3,113.6 | 117.1 | 116.9 | 109.7 | 90.2 | 3.8 | 3.8 | 3.6 | 2.9 |
| Bloomington | 61.5 | 62.6 | 62.6 | 63.1 | 1.5 | 1.6 | 1.4 | 1.7 | 2.5 | 2.6 | 2.2 | 2.7 |
| Elkhart-Goshen | 93.4 | 92.9 | 94.0 | 92.7 | 3.1 | 2.7 | 2.9 | 2.2 | 3.3 | 2.9 | 3.0 | 2.3 |
| Evansville-Henderson | 155.8 | 156.0 | 156.9 | 155.8 | 7.4 | 6.3 | 7.1 | 5.6 | 4.8 | 4.0 | 4.5 | 3.6 |
| Fort Wayne | 260.6 | 266.4 | 263.8 | 266.7 | 8.3 | 8.6 | 7.7 | 6.4 | 3.2 | 3.2 | 2.9 | 2.4 |
| Gary ... | 299.4 | 303.3 | 304.3 | 304.9 | 12.9 | 14.7 | 13.8 | 10.8 | 4.3 | 4.9 | 4.5 | 3.6 |
| Indianapolis | 814.5 | 842.3 | 821.4 | 842.3 | 23.8 | 24.5 | 22.9 | 20.0 | 2.9 | 2.9 | 2.8 | 2.4 |
| Kokomo | 50.9 | 52.1 | 51.2 | 52.6 | 1.8 | 1.9 | 1.6 | 1.4 | 3.5 | 3.6 | 3.2 | 2.7 |
| Lafayette. | 88.8 | 91.0 | 89.7 | 91.5 | 2.4 | 2.5 | 2.1 | 2.0 | 2.7 | 2.8 | 2.4 | 2.2 |
| Muncie .... | 63.3 | 63.6 | 64.0 | 63.4 | 2.6 | 3.1 | 2.5 | 2.6 | 4.1 | 4.9 | 4.0 | 4.1 |
| South Bend | 134.8 | 136.9 | 136.0 | 136.3 | 4.9 | 4.7 | 4.6 | 3.5 | 3.6 | 3.5 | 3.4 | 2.6 |
| Terre Haute | 72.4 | 71.8 | 73.0 | 71.5 | 4.6 | 4.5 | 4.4 | 3.6 | 6.3 | 6.2 | 6.0 | 5.0 |
| lowa | 1.576.7 | 1.579.6 | 1,571.9 | 1,576.9 | 66.8 | 49.9 | 54.7 | 38.6 | 4.2 | 3.2 | 3.5 | 2.5 |
| Cedar Rapids | 109.0 | 112.4 | 108.3 | 111.2 | 3.8 | 2.5 | 3.2 | 2.0 | 3.4 | 2.2 | 3.0 | 1.8 |
| Des Moines | 254.2 | 254.4 | 251.0 | 252.3 | 8.1 | 6.3 | 7.0 | 4.7 | 3.2 | 2.5 | 2.8 | 1.9 |
| Dubuque | 49.7 | 50.4 | 49.4 | 50.1 | 2.6 | 1.9 | 2.2 | 1.5 | 5.2 | 3.8 | 4.5 | 2.9 |
| lowa City | 65.7 | 67.0 | 65.5 | 66.7 | 1.8 | 1.4 | 1.6 | 1.2 | 2.7 | 2.1 | 2.4 | 1.8 |
| Sioux City ................ | 65.2 | 65.4 | 65.2 | 65.1 | 2.9 | 2.0 | 2.6 | 1.7 | 4.4 | 3.0 | 4.0 | 2.6 |
| Waterloo-Cedar Falls ............. | 69.4 | 70.6 | 68.7 | 69.7 | 3.2 | 2.5 | 2.8 | 2.1 | 4.6 | 3.5 | 4.1 | 3.0 |

See footnotes at end of table.

C-3. Labor force status by State and metropolitan area-Continued
(Numbers in thousands)

| State and area | Civilian labor force |  |  |  | Unemployed |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Number |  |  |  | Percent of labor force |  |  |  |
|  | March |  | April |  | March |  | April |  | March |  | April |  |
|  | 1997 | 1998 | 1997 | 1998P | 1997 | 1998 | 1997 | 1998p | 1997 | 1998 | 1997 | $1998{ }^{\text {p }}$ |
| Kansas | 1,340.7 | 1,403.0 | 1,341.2 | 1.404.9 | 52.7 | 50.8 | 51.1 | 46.1 | 3.9 | 3.6 | 3.8 | 3.3 |
| Lawrence | 52.6 | 55.9 | 53.2 | 55.6 | 2.2 | 2.2 | 2.2 | 2.0 | 4.1 | 3.9 | 4.1 | 3.5 |
| Topeka | 88.4 | 89.4 | 87.0 | 88.6 | 4.2 | 4.1 | 4.0 | 3.3 | 4.8 | 4.6 | 4.6 | 3.7 |
| Wichita | 268.4 | 284.3 | 269.2 | 284.0 | 9.3 | 7.8 | 9.4 | 7.6 | 3.5 | 2.8 | 3.5 | 2.7 |
| Kentucky ........................................................ | 1,890.4 | 1,919.2 | 1,906.2 | 1,924.0 | 110.8 | 88.3 | 102.8 | 74.9 | 5.9 | 4.6 | 5.4 | 3.9 |
| Lexington | 245.3 | 255.2 | 250.0 | 259.0 | 6.6 | 5.4 | 6.7 | 4.7 | 2.7 | 2.1 | 2.7 | 1.8 |
| Louisville ... | 535.3 | 554.8 | 540.2 | 555.4 | 22.8 | 18.4 | 21.9 | 15.2 | 4.3 | 3.3 | 4.0 | 2.7 |
| Owensboro | 48.9 | 49.8 | 49.1 | 49.3 | 3.3 | 2.1 | 2.9 | 1.6 | 6.7 | 4.3 | 5.9 | 3.3 |
| Louisiana | 2,008.5 | 2,024.4 | 2,007.4 | 2,042.1 | 121.8 | 90.9 | 113.4 | 101.2 | 6.1 | 4.5 | 5.6 | 5.0 |
| Alexandria | 58.3 | 58.5 | 58.1 | 58.9 | 3.6 | 2.5 | 3.2 | 2.6 | 6.1 | 4.2 | 5.5 | 4.4 |
| Baton Rouge .................................................. | 289.0 | 294.0 | 287.5 | 296.0 | 13.9 | 10.4 | 13.8 | 11.7 | 4.8 | 3.5 | 4.8 | 3.9 |
| Houma .. | 86.6 | 92.0 | 88.0 | 93.3 | 3.4 | 2.4 | 3.1 | 2.8 | 3.9 | 2.6 | 3.5 | 3.0 |
| Lafayette | 171.6 | 177.5 | 173.0 | 179.0 | 8.8 | 8.0 | 8.3 | 8.7 | 5.1 | 4.5 | 4.8 | 4.9 |
| Lake Charles | 91.2 | 90.6 | 90.8 | 91.5 | 5.5 | 3.7 | 5.3 | 4.2 | 6.0 | 4.1 | 5.9 | 4.6 |
| Monroe | 70.0 | 69.9 | 69.9 | 70.2 | 4.5 | 3.1 | 4.1 | 3.2 | 6.4 | 4.4 | 5.8 | 4.6 |
| New Orleans | 613.6 | 614.2 | 612.8 | 619.0 | 32.1 | 23.4 | 30.3 | 26.5 | 5.2 | 3.8 | 5.0 | 4.3 |
| Shreveport-Bossier City ................................... | 183.4 | 187.2 | 183.1 | 188.3 | 12.0 | 9.4 | 11.4 | 10.0 | 6.6 | 5.0 | 6.2 | 5.3 |
| Maine | 655.9 | 649.5 | 650.7 | 644.6 | 43.8 | 36.1 | 40.6 | 30.0 | 6.7 | 5.6 | 6.2 | 4.6 |
| Bangor | 49.3 | 50.8 | 50.3 | 50.7 | 2.5 | 2.0 | 2.4 | 1.6 | 5.2 | 3.9 | 4.7 | 3.1 |
| Lewiston-Auburn | 51.7 | 51.6 | 51.0 | 50.7 | 3.8 | 2.9 | 3.2 | 2.4 | 7.3 | 5.6 | 6.3 | 4.7 |
| Portand ....................................................... | 131.7 | 133.0 | 130.6 | 130.4 | 4.4 | 3.8 | 3.9 | 3.1 | 3.4 | 2.9 | 3.0 | 2.3 |
| Maryland ... | 2,764.0 | 2,767.4 | 2,758.5 | 2.760 .6 | 142.1 | 131.1 | 132.9 | 113.8 | 5.1 | 4.7 | 4.8 | 4.1 |
| Baltimore | 1,308.6 | 1,307.7 | 1,305.8 | 1.306.0 | 73.3 | 67.7 | 69.1 | 60.1 | 5.6 | 5.2 | 5.3 | 4.6 |
| Cumberland ................................................... | 45.6 | 46.3 | 45.7 | 46.0 | 4.4 | 3.9 | 3.8 | 3.2 | 9.6 | 8.4 | 8.3 | 7.0 |
| Hagerstown ..................................................... | 69.9 | 72.2 | 69.4 | 71.4 | 4.0 | 3.7 | 3.1 | 2.6 | 5.8 | 5.1 | 4.4 | 3.6 |
| Massachusetts | 3,236.1 | 3,249.3 | 3,231.4 | 3,213.0 | 147.8 | 137.4 | 131.9 | 91.9 | 4.6 | 4.2 | 4.1 | 2.9 |
| Barnstable-Yarmouth | 66.9 | 67.7 | 68.9 | 68.7 | 5.1 | 4.9 | 3.9 | 2.7 | 7.6 | 7.2 | 5.6 | 3.9 |
| Boston. | 1,800.3 | 1,806.3 | 1,793.9 | $1,788.0$ | 66.4 | 60.7 | 60.9 | 42.6 | 3.7 | 3.4 | 3.4 | 2.4 |
| Brockton | 131.4 | 131.7 | 131.3 | 130.1 | 6.8 | 6.2 | 6.2 | 4.2 | 5.2 | 4.7 | 4.7 | 3.2 |
| Fitchburg-Leominster ...................................... | 69.5 | 70.4 | 70.4 | 69.4 | 3.7 | 3.3 | 3.4 | 2.2 | 5.3 | 4.7 | 4.9 | 3.1 |
| Lawrence ..................................................... | 195.4 | 197.6 | 196.4 | 196.1 | 10.4 | 9.5 | 9.8 | 7.6 | 5.3 | 4.8 | 5.0 | 3.9 |
| Lowell | 161.0 | 166.8 | 161.0 | 164.2 | 6.9 | 6.5 | 6.2 | 4.5 | 4.3 | 3.9 | 3.8 | 2.7 |
| New Bedford | 82.1 | 82.4 | 81.3 | 80.1 | 7.6 | 7.5 | 6.3 | 4.6 | 9.2 | 9.0 | 7.8 | 5.7 |
| Pittsfield ... | 39.8 | 39.6 | 39.6 | 38.9 | 2.8 | 2.4 | 2.4 | 1.5 | 7.0 | 6.0 | 6.1 | 4.0 |
| Springfield .................................................... | 283.8 | 286.3 | 283.7 | 283.3 | 13.6 | 14.0 | 11.9 | 9.3 | 4.8 | 4.9 | 4.2 | 3.3 |
| Worcester ..................................................... | 249.1 | 248.9 | 248.1 | 246.2 | 10.5 | 10.0 | 9.3 | 6.8 | 4.2 | 4.0 | 3.8 | 2.8 |
| Michigan | 4,940.8 | 5,008.3 | 4.916.1 | 4,957.7 | 241.4 | 222.5 | 210.3 | 169.1 | 4.9 | 4.4 | 4.3 | 3.4 |
| Ann Arbor | 290.1 | 294.9 | 288.0 | 292.3 | 8.6 | 7.3 | 7.6 | 5.5 | 3.0 | 2.5 | 2.6 | 1.9 |
| Benton Harbor | 82.9 | 82.6 | 82.5 | 82.0 | 4.9 | 4.3 | 4.2 | 3.3 | 5.9 | 5.2 | 5.0 | 4.1 |
| Detroit | 2,217.4 | 2,251.7 | 2.2045 | 2.230 .4 | 92.4 | 84.4 | 84.4 | 68.2 | 4.2 | 3.7 | 3.8 | 3.1 |
| Flint. | 204.8 | 205.4 | 201.8 | 202.0 | 12.2 | 10.9 | 10.7 | 8.9 | 6.0 | 5.3 | 5.3 | 4.4 |
| Grand Rapids-Muskegon-Holland | 575.2 | 589.1 | 573.8 | 585.2 | 21.6 | 20.4 | 17.9 | 15.1 | 3.7 | 3.5 | 3.1 | 2.6 |
| Jackson ................................... | 75.9 | 76.2 | 75.8 | 75.7 | 3.8 | 3.3 | 3.4 | 2.5 | 5.1 | 4.3 | 4.5 | 3.3 |
| Kalamazoo-Battle Creek | 229.2 | 230.9 | 228.6 | 228.3 | 10.2 | 9.2 | 8.5 | 7.0 | 4.4 | 4.0 | 3.7 | 3.1 |
| Lansing-East Lansing ..................................... | 243.5 | 244.4 | 241.9 | 242.6 | 8.3 | 9.1 | 6.9 | 5.8 | 3.4 | 3.7 | 2.9 | 2.4 |
| Saginaw-Bay City-Midland ............................... | 198.7 | 200.6 | 197.9 | 199.0 | 11.0 | 10.4 | 8.8 | 8.1 | 5.6 | 5.2 | 4.4 | 4.1 |
| Minnesota ....................................................... | 2,572.2 | 2,657.4 | 2,592.2 | 2,679.3 | 97.0 | 84.5 | 94.6 | 71.5 | 3.8 | 3.2 | 3.6 | 2.7 |
| Duluth-Superior ............................................. | 121.2 | 124.4 | 121.6 | 125.1 | 7.1 | 6.3 | 7.3 | 5.5 | 5.9 | 5.1 | 6.0 | 4.4 |
| Minneapolis-St.Paul ........................................ | 1,608.1 | 1.670.0 | 1.612 .0 | 1.678 .8 | 43.3 | 37.3 | 41.4 | 32.5 | 2.7 | 2.2 | 2.6 | 1.9 |
| Rochester ...................................................... | 64.7 | 67.7 | 65.0 | 68.0 | 1.6 | 1.3 | 1.5 | 1.2 | 2.5 | 1.9 | 2.4 | 1.7 |
| St. Cloud ....................................................... | 91.7 | 93.8 | 92.7 | 94.6 | 4.8 | 3.9 | 4.5 | 2.9 | 5.2 | 4.1 | 4.9 | 3.1 |
| Mississippi .................................................... | 1,254.7 | 1,286.6 | 1,245.3 | 1,272.1 | 74.0 | 74.5 | 64.1 | 60.9 | 5.9 | 5.8 | 5.1 | 4.8 |
| Biloxi-Gulfport-Pascagoula ............................... | 159.4 | 163.8 | 158.4 | 163.0 | 8.5 | 6.4 | 7.9 | 5.8 | 5.3 | 3.9 | 5.0 | 3.6 |
| Hattiesburg | 50.1 | 52.2 | 49.9 | 51.5 | 1.6 | 2.0 | 1.4 | 1.5 | 3.1 | 3.8 | 2.9 | 2.8 |
| Jackson | 218.9 | 228.9 | 218.7 | 228.4 | 7.7 | 7.8 | 7.0 | 6.7 | 3.5 | 3.4 | 3.2 | 2.9 |
| Missouri .......................................................... | 2,868.0 | 2,872.9 | 2,884.1 | 2,909.4 | 130.7 | 128.0 | 120.7 | 123.5 | 4.6 | 4.5 | 4.2 | 4.2 |
| Columbia ..................................................... | 80.3 | 79.7 | 81.2 | 81.1 | 1.3 | 1.3 | 1.1 | 1.2 | 1.7 | 1.7 | 1.4 | 1.5 |
| Joplin .......................................................... | 80.6 | 79.9 | 80.7 | 81.0 | 3.2 | 3.0 | 3.0 | 3.2 | 4.0 | 3.8 | 3.7 | 4.0 |
| Kansas City ................................................. | 946.8 | 983.9 | 948.3 | 986.0 | 34.5 | 36.6 | 37.7 | 35.3 | 3.6 | 3.7 | 4.0 | 3.6 |
| St. Joseph ..................................................... | 49.0 | 49.4 | 49.0 | 49.7 | 2.8 | 2.8 | 2.6 | 2.6 | 5.7 | 5.6 | 5.2 | 5.2 |
| St. Louis LMA ............................................... | 1,340.5 | 1,342.2 | 1,344.9 | 1,353.0 | 55.2 | 57.5 | 51.3 | 57.4 | 4.1 | 4.3 | 3.8 | 4.2 |
| Springfield ..................................................... | 165.8 | 166.0 | 168.2 | 170.5 | 6.3 | 5.7 | 5.5 | 5.5 | 3.8 | 3.4 | 3.3 | 3.2 |
| Montana .......................................................... | 448.1 | 459.7 | 451.6 | 462.1 | 28.1 | 28.9 | 24.6 | 24.9 | 6.3 | 6.3 | 5.5 | 5.4 |
| Billings .................. | 68.1 | 70.2 | 68.7 | 70.3 | 3.4 | 3.5 | 3.1 | 2.9 | 5.0 | 5.0 | 4.5 | 4.1 |
| Great Falls .................................................... | 37.5 | 37.5 | 37.8 | 37.7 | 2.2 | 2.2 | 2.0 | 1.9 | 6.0 | 5.9 | 5.3 | 5.0 |

See footnotes at end of table.
(Numbers in thousands)

| State and area | Civilian labor force |  |  |  | Unemployed |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Number |  |  |  | Percent of labor force |  |  |  |
|  | March |  | April |  | March |  | April |  | March |  | April |  |
|  | 1997 | 1998 | 1997 | 1998p | 1997 | 1998 | 1997 | 1998p | 1997 | 1998 | 1997 | 1998 ${ }^{\text {p }}$ |
| Nebraska | 890.9 | 918.5 | 892.0 | 921.5 | 26.8 | 21.2 | 21.6 | 14.9 | 3.0 | 2.3 | 2.4 | 1.6 |
| Lincoln ......................................................... | 140.2 | 141.8 | 140.0 | 140.9 | 3.5 | 2.4 | 2.9 | 1.7 | 2.5 | 1.7 | 2.0 | 1.2 |
| Omaha | 379.4 | 395.5 | 377.2 | 396.8 | 11.3 | 9.0 | 9.4 | 6.4 | 3.0 | 2.3 | 2.5 | 1.6 |
| Nevada | 864.6 | 902.7 | 867.4 | 906.2 | 33.8 | 39.4 | 34.3 | 40.6 | 3.9 | 4.4 | 3.9 | 4.5 |
| Las Vegas | 652.8 | 684.8 | 653.4 | 686.2 | 25.0 | 27.9 | 25.0 | 28.8 | 3.8 | 4.1 | 3.8 | 4.2 |
| Reno .......................................................... | 167.5 | 172.3 | 168.7 | 173.4 | 6.2 | 7.1 | 6.4 | 7.1 | 3.7 | 4.1 | 3.8 | 4.1 |
| New Hampshire ................................................. | 631.2 | 647.9 | 636.4 | 649.5 | 21.3 | 21.4 | 22.0 | 19.6 | 3.4 | 3.3 | 3.5 | 3.0 |
| Manchester ................................................... | 99.6 | 102.2 | 100.1 | 101.8 | 2.9 | 2.8 | 2.9 | 2.4 | 2.9 | 2.8 | 2.9 | 2.4 |
| Nashua | 98.8 | 104.0 | 99.6 | 105.1 | 2.8 | 2.9 | 2.7 | 2.8 | 2.9 | 2.8 | 2.8 | 2.6 |
| Portsmouth-Rochester | 120.7 | 122.2 | 121.8 | 124.2 | 3.7 | 3.3 | 3.8 | 2.9 | 3.1 | 2.7 | 3.2 | 2.3 |
| New Jersey | 4,172.9 | 4,172.8 | 4,161.4 | 4,153.2 | 226.0 | 220.1 | 200.4 | 197.7 | 5.4 | 5.3 | 4.8 | 4.8 |
| Atlantic-Cape May | 169.0 | 170.9 | 169.9 | 171.3 | 16.5 | 18.5 | 13.9 | 15.4 | 9.7 | 10.8 | 8.2 | 9.0 |
| Bergen-Passaic | 676.6 | 674.4 | 674.9 | 671.7 | 36.9 | 33.4 | 33.6 | 29.8 | 5.5 | 5.0 | 5.0 | 4.4 |
| Jersey City ........ | 285.8 | 282.8 | 283.9 | 280.5 | 22.6 | 22.6 | 21.1 | 21.0 | 7.9 | 8.0 | 7.4 | 7.5 |
| Middlesex-Somerset-Hunterdon | 632.9 | 647.0 | 632.8 | 642.3 | 23.3 | 23.3 | 20.7 | 21.6 | 3.7 | 3.6 | 3.3 | 3.4 |
| Monmouth-Ocean | 510.9 | 509.6 | 514.1 | 510.0 | 26.7 | 25.8 | 23.0 | 23.0 | 5.2 | 5.1 | 4.5 | 4.5 |
| Newark | 1,021.2 | 1,020.7 | 1,013.6 | 1,011.7 | 54.6 | 50.8 | 48.8 | 46.1 | 5.3 | 5.0 | 4.8 | 4.6 |
| Trenton | 171.9 | 170.0 | 171.2 | 168.3 | 8.1 | 7.9 | 7.1 | 6.6 | 4.7 | 4.6 | 4.2 | 3.9 |
| Vineland-Millville-Bridgeton .............................. | 65.1 | 66.5 | 64.5 | 66.5 | 6.2 | 7.2 | 5.5 | 6.3 | 9.5 | 10.8 | 8.5 | 9.5 |
| New Mexico | 809.9 | 840.7 | 812.4 | 841.0 | 52.9 | 54.3 | 49.7 | 50.1 | 6.5 | 6.5 | 6.1 | 6.0 |
| Albuquerque | 351.5 | 367.5 | 354.3 | 368.6 | 14.6 | 16.1 | 13.7 | 15.2 | 4.1 | 4.4 | 3.9 | 4.1 |
| Las Cruces | 65.8 | 69.5 | 66.4 | 68.7 | 6.5 | 7.1 | 6.2 | 5.9 | 9.9 | 10.2 | 9.3 | 8.6 |
| Santa Fe | 73.7 | 75.8 | 73.3 | 76.4 | 2.9 | 2.6 | 2.7 | 2.4 | 3.9 | 3.4 | 3.7 | 3.1 |
| New York | 8,782.4 | 8,775.4 | 8,741.0 | 8,704.9 | 611.4 | 571.1 | 559.4 | 494.5 | 7.0 | 6.5 | 6.4 | 5.7 |
| Albany-Schenectady-Troy | 451.4 | 451.0 | 450.0 | 449.0 | 20.8 | 20.6 | 17.7 | 16.5 | 4.6 | 4.6 | 3.9 | 3.7 |
| Binghamton ........ | 123.4 | 126.1 | 123.2 | 124.6 | 6.0 | 6.3 | 5.2 | 4.9 | 4.9 | 5.0 | 4.2 | 3.9 |
| Buffalo-Niagara Falls | 577.2 | 578.1 | 574.4 | 573.3 | 32.8 | 35.0 | 28.6 | 31.6 | 5.7 | 6.1 | 5.0 | 5.5 |
| Dutchess County . | 118.7 | 118.8 | 118.5 | 118.5 | 5.3 | 4.6 | 4.6 | 3.9 | 4.5 | 3.9 | 3.9 | 3.3 |
| Elmira | 44.3 | 44.3 | 44.0 | 43.7 | 2.0 | 2.3 | 1.7 | 1.8 | 4.5 | 5.1 | 3.9 | 4.2 |
| Glens Falls | 59.5 | 59.9 | 59.4 | 59.6 | 5.0 | 4.9 | 4.1 | 3.6 | 8.3 | 8.2 | 6.9 | 6.1 |
| Jamestown | 67.8 | 67.6 | 67.1 | 66.7 | 4.1 | 4.2 | 3.7 | 3.6 | 6.1 | 6.1 | 5.5 | 5.4 |
| Nassau-Suffolk | 1,371.8 | 1,388.0 | 1,373.0 | 1,385.5 | 52.2 | 51.3 | 46.4 | 46.9 | 3.8 | 3.7 | 3.4 | 3.4 |
| New York ....... | $4,042.2$ | 4,015.7 | 4,005.6 | 3.971 .4 | 372.1 | 327.8 | 349.1 | 290.2 | 9.2 | 8.2 | 8.7 | 7.3 |
| New York City | 3,410.4 | 3,380.1 | 3,377.8 | 3,337.1 | 348.4 | 304.9 | 328.1 | 269.9 | 10.2 | 9.0 | 9.7 | 8.1 |
| Newburgh ......... | 170.2 | 169.5 | 169.2 | 168.1 | 7.9 | 7.2 | 7.1 | 6.2 | 4.6 | 4.3 | 4.2 | 3.7 |
| Rochester | 569.2 | 568.2 | 568.8 | 564.6 | 24.9 | 26.5 | 21.8 | 22.6 | 4.4 | 4.7 | 3.8 | 4.0 |
| Syracuse ...................................................... | 364.3 | 362.7 | 366.2 | 360.1 | 18.8 | 18.9 | 16.6 | 14.8 | 5.2 | 5.2 | 4.5 | 4.1 |
| Utica-Rome | 141.1 | 141.9 | 141.1 | 140.7 | 8.4 | 8.5 | 7.7 | 6.8 | 5.9 | 6.0 | 5.5 | 4.9 |
| North Carolina | 3,808.7 | 3.809 .7 | 3.819 .2 | 3,795.4 | 134.4 | 145.0 | 121.3 | 127.5 | 3.5 | 3.8 | 3.2 | 3.4 |
| Asheville . | 110.4 | 110.9 | 111.5 | 110.6 | 3.3 | 3.5 | 2.9 | 2.8 | 3.0 | 3.2 | 2.6 | 2.5 |
| Charlotte-Gastonia-Rock Hill | 746.7 | 748.7 | 747.3 | 743.2 | 21.8 | 20.7 | 20.1 | 18.2 | 2.9 | 2.8 | 2.7 | 2.4 |
| Fayetteville | 112.1 | 115.0 | 112.3 | 113.7 | 4.2 | 4.8 | 4.1 | 3.9 | 3.7 | 4.2 | 3.6 | 3.5 |
| Goldsboro .................................................... | 46.8 | 48.5 | 46.9 | 48.3 | 1.6 | 2.1 | 1.6 | 1.9 | 3.4 | 4.2 | 3.3 | 3.9 |
| Greensboro-Winston-Salem-High Point .............. | 641.7 | 636.4 | 640.5 | 631.8 | 18.3 | 19.0 | 15.8 | 17.8 | 2.9 | 3.0 | 2.5 | 2.8 |
| Greenville ..................................................... | 64.2 | 66.1 | 64.1 | 65.5 | 2.8 | 2.9 | 2.9 | 2.8 | 4.3 | 4.4 | 4.5 | 4.3 |
| Hickory-Morganton-Lenoir | 175.8 | 171.4 | 175.0 | 170.8 | 5.2 | 5.6 | 5.1 | 5.3 | 2.9 | 3.3 | 2.9 | 3.1 |
| Jacksonville .................... | 44.1 | 45.3 | 43.9 | 44.9 | 1.4 | 1.9 | 1.2 | 1.4 | 3.1 | 4.1 | 2.8 | 3.1 |
| Raleigh-Durham-Chapel Hill ............................. | 601.5 | 616.8 | 608.7 | 614.2 | 11.2 | 11.5 | 10.1 | 10.1 | 1.9 | 1.9 | 1.7 | 1.6 |
| Rocky Mount ................................................ | 71.2 | 69.6 | 71.3 | 68.9 | 5.1 | 5.4 | 4.8 | 4.7 | 7.2 | 7.7 | 6.7 | 6.8 |
| Wilmington .................................................. | 107.9 | 106.6 | 108.0 | 106.3 | 3.9 | 5.2 | 3.4 | 4.0 | 3.6 | 4.8 | 3.2 | 3.8 |
| North Dakota .................................................... | 340.4 | 338.8 | 346.7 | 343.0 | 11.0 | 9.5 | 10.2 | 6.8 | 3.2 | 2.8 | 2.9 | 2.0 |
| Bismarck | 53.3 | 53.1 | 53.6 | 53.2 | 1.9 | 1.5 | 1.6 | 1.0 | 3.6 | 2.9 | 3.0 | 1.9 |
| Fargo-Moorhead ............................................ | 100.3 | 102.9 | 101.8 | 103.0 | 2.3 | 1.9 | 2.4 | 1.4 | 2.3 | 1.8 | 2.3 | 1.3 |
| Grand Forks ................................................. | 53.9 | 53.9 | 53.9 | 54.0 | 1.8 | 1.4 | 1.7 | 1.1 | 3.3 | 2.6 | 3.2 | 2.1 |
| Ohio | 5,611.0 | 5,745.8 | 5,619.1 | 5,719.3 | 290.5 | 270.8 | 253.8 | 208.9 | 5.2 | 4.7 | 4.5 | 3.7 |
| Akron | 358.8 | 367.4 | 358.7 | 364.7 | 17.9 | 16.9 | 15.3 | 12.4 | 5.0 | 4.6 | 4.3 | 3.4 |
| Canton-Massilion | 200.2 | 205.2 | 199.9 | 204.6 | 11.5 | 9.9 | 10.0 | 7.4 | 5.7 | 4.8 | 5.0 | 3.6 |
| Cincinnati ..................................................... | 820.8 | 847.4 | 824.6 | 848.5 | 33.3 | 30.0 | 30.5 | 24.3 | 4.1 | 3.5 | 3.7 | 2.9 |
| Cleveland-Lorain-Elyria ................................... | 1,095.2 | 1,125.6 | 1,098.0 | 1,120.0 | 60.5 | 55.6 | 53.4 | 42.2 | 5.5 | 4.9 | 4.9 | 3.8 |
| Columbus .................... | 788.2 | 815.6 | 790.7 | 815.9 | 25.0 | 23.8 | 22.0 | 19.0 | 3.2 | 2.9 | 2.8 | 2.3 |
| Dayton-Springtield .......................................... | 471.5 | 479.3 | 470.4 | 475.6 | 20.5 | 18.6 | 17.8 | 15.0 | 4.3 | 3.9 | 3.8 | 3.1 |
| Hamilton-Middletown | 172.4 | 175.7 | 172.5 | 175.7 | 6.4 | 6.5 | 5.6 | 5.2 | 3.7 | 3.7 | 3.2 | 3.0 |
| Lima ..... | 73.6 | 75.6 | 74.1 | 76.0 | 4.0 | 3.6 | 3.7 | 3.1 | 5.5 | 4.8 | 4.9 | 4.1 |
| Mansfield ..................................................... | 82.0 | 82.9 | 82.1 | 82.3 | 5.2 | 4.8 | 4.6 | 4.0 | 6.3 | 5.8 | 5.6 | 4.8 |
| Steubenville-Weirton ....................................... | 58.0 | 57.2 | 58.9 | 57.5 | 7.9 | 4.2 | 8.0 | 3.7 | 13.7 | 7.3 | 13.6 | 6.5 |
| Toledo .......................................................... | 312.4 | 316.5 | 311.1 | 315.2 | 15.5 | 15.5 | 13.5 | 13.1 | 5.0 | 4.9 | 4.3 | 4.2 |
| Youngstown-Warren ......................................... | 282.2 | 289.6 | 281.7 | 287.7 | 18.0 | 17.7 | 15.8 | 13.9 | 6.4 | 6.1 | 5.6 | 4.8 |

See footnotes at end of table.

C-3. Labor force status by State and metropolitan area-Continued
(Numbers in thousands)

| State and area | Civilian labor force |  |  |  | Unemployed |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Number |  |  |  | Percent of labor force |  |  |  |
|  | March |  | April |  | March |  | April |  | March |  | April |  |
|  | 1997 | 1998 | 1997 | $1998{ }^{\circ}$ | 1997 | 1998 | 1997 | $1998{ }^{\circ}$ | 1997 | 1998 | 1997 | $1998{ }^{\circ}$ |
| Oklahoma | 1,592.3 | 1,613.5 | 1,595.9 | 1,610.7 | 68.4 | 57.9 | 65.1 | 56.8 | 4.3 | 3.6 | 4.1 | 3.5 |
| Enid | 27.5 | 28.6 | 28.0 | 28.4 | 0.9 | 0.9 | 0.9 | 0.8 | 3.2 | 3.1 | 3.0 | 2.8 |
| Lawton | 41.1 | 40.1 | 40.9 | 40.0 | 2.1 | 1.7 | 2.1 | 1.7 | 5.2 | 4.3 | 5.1 | 4.2 |
| Oklahoma City | 523.1 | 530.1 | 524.1 | 529.2 | 17.1 | 15.3 | 16.5 | 15.3 | 3.3 | 2.9 | 3.1 | 2.9 |
| Tulsa .............. | 394.9 | 406.1 | 395.2 | 404.9 | 14.3 | 11.1 | 13.8 | 11.0 | 3.6 | 2.7 | 3.5 | 2.7 |
| Oregon | 1,698.4 | 1,767.4 | 1,707.5 | 1,764.2 | 122.9 | 102.0 | 105.9 | 92.8 | 7.2 | 5.8 | 6.2 | 5.3 |
| Eugene-Springtield | 156.4 | 161.7 | 156.9 | 161.7 | 11.0 | 9.3 | 9.5 | 8.4 | 7.0 | 5.7 | 6.1 | 5.2 |
| Medford-Astland .. | 85.4 | 87.7 | 85.0 | 87.5 | 8.4 | 6.8 | 7.2 | 5.9 | 9.9 | 7.7 | 8.4 | 6.8 |
| Portland-Vancouver | 1,003.9 | 1,054.5 | 1.011 .5 | 1,050.6 | 50.6 | 42.5 | 45.0 | 39.7 | 5.0 | 4.0 | 4.4 | 3.8 |
| Salem ................... | 160.1 | 163.3 | 161.0 | 164.0 | 11.6 | 9.4 | 10.3 | 8.7 | 7.2 | 5.7 | 6.4 | 5.3 |
| Pennsylvania | 5,923.1 | 5,923.5 | 5,924.2 | 5,925.6 | 337.9 | 301.9 | 322.8 | 258.9 | 5.7 | 5.1 | 5.4 | 4.4 |
| Allentown-Bethlehem-Easton | 307.0 | 306.0 | 306.1 | 305.4 | 16.9 | 14.8 | 16.3 | 13.7 | 5.5 | 4.8 | 5.3 | 4.5 |
| Altoona | 61.8 | 62.7 | 62.6 | 62.9 | 3.8 | 3.5 | 3.7 | 3.2 | 6.1 | 5.5 | 6.0 | 5.0 |
| Erie ............ | 139.6 | 138.9 | 139.0 | 138.1 | 9.4 | 8.1 | 9.0 | 7.1 | 6.7 | 5.8 | 6.5 | 5.1 |
| Harrisburg-Lebanon-Carlisle | 345.5 | 349.1 | 346.4 | 351.0 | 12.3 | 12.0 | 11.7 | 10.2 | 3.6 | 3.4 | 3.4 | 2.9 |
| Johnstown ....................... | 106.8 | 105.5 | 105.6 | 105.5 | 10.0 | 8.3 | 9.0 | 6.6 | 9.3 | 7.8 | 8.6 | 6.2 |
| Lancaster | 236.8 | 243.2 | 238.5 | 245.9 | 7.2 | 7.5 | 6.6 | 6.4 | 3.0 | 3.1 | 2.8 | 2.6 |
| Philadelphia | 2,481.5 | 2,463.0 | 2,481.5 | 2.469 .7 | 124.9 | 111.5 | 120.6 | 103.2 | 5.0 | 4.5 | 4.9 | 4.2 |
| Pittsburgh .. | 1,150.5 | 1,146.0 | 1,147.8 | 1,138.8 | 63.9 | 60.5 | 60.0 | 49.6 | 5.6 | 5.3 | 5.2 | 4.4 |
| Reading | 182.8 | 184.4 | 182.5 | 185.0 | 8.6 | 8.2 | 8.0 | 7.3 | 4.7 | 4.5 | 4.4 | 4.0 |
| Scranton-Wilkes-Barre-Hazelton | 313.3 | 310.7 | 311.9 | 309.0 | 25.0 | 21.6 | 23.6 | 17.9 | 8.0 | 7.0 | 7.6 | 5.8 |
| Sharon | 55.3 | 56.2 | 56.8 | 56.5 | 3.8 | 2.7 | 3.9 | 2.4 | 6.8 | 4.9 | 6.8 | 4.2 |
| State College | 65.3 | 67.4 | 66.3 | 68.3 | 2.4 | 2.1 | 2.0 | 1.6 | 3.6 | 3.2 | 2.9 | 2.3 |
| Williamsport | 57.4 | 57.8 | 57.1 | 57.9 | 4.2 | 3.9 | 3.8 | 3.1 | 7.2 | 6.7 | 6.7 | 5.3 |
| York ........... | 192.3 | 194.3 | 192.8 | 194.5 | 8.8 | 7.8 | 8.5 | 6.6 | 4.6 | 4.0 | 4.4 | 3.4 |
| Rhode Island | 496.0 | 502.5 | 495.3 | 496.4 | 29.7 | 27.9 | 26.2 | 22.9 | 6.0 | 5.6 | 5.3 | 4.6 |
| Providence-Fall River-Warwick | 571.2 | 576.5 | 569.3 | 566.9 | 36.6 | 33.9 | 32.4 | 25.9 | 6.4 | 5.9 | 5.7 | 4.6 |
| South Carolina | 1,906.8 | 1.898.2 | 1,910.9 | 1,911.6 | 96.6 | 44.8 | 83.2 | 47.1 | 5.1 | 2.4 | 4.4 | 2.5 |
| Charleston-North Charleston | 251.0 | 255.5 | 251.6 | 258.1 | 11.8 | 4.7 | 10.5 | 5.2 | 4.7 | 1.8 | 4.2 | 2.0 |
| Columbia | 270.1 | 271.9 | 270.1 | 274.0 | 8.3 | 3.6 | 7.0 | 3.8 | 3.1 | 1.3 | 2.6 | 1.4 |
| Florence. | 64.5 | 61.9 | 63.9 | 62.0 | 4.0 | 1.8 | 3.5 | 1.8 | 6.2 | 3.0 | 5.4 | 3.0 |
| Greenville-Spartanburg-Anderson | 481.4 | 483.1 | 483.4 | 488.3 | 17.4 | 7.3 | 15.3 | 8.2 | 3.6 | 1.5 | 3.2 | 1.7 |
| Mytle Beach ............................ | 96.1 | 98.0 | 98.9 | 100.6 | 5.1 | 2.6 | 3.6 | 2.1 | 5.3 | 2.7 | 3.7 | 2.1 |
| Sumter ......... | 46.7 | 46.2 | 46.6 | 46.2 | 2.8 | 1.4 | 2.4 | 1.5 | 6.0 | 3.0 | 5.2 | 3.2 |
| South Dakota | 384.7 | 392.5 | 389.3 | 396.9 | 14.8 | 13.0 | 12.1 | 10.4 | 3.8 | 3.3 | 3.1 | 2.6 |
| Papid City | 45.0 | 45.6 | 44.8 | 45.8 | 1.8 | 1.4 | 1.5 | 1.2 | 3.9 | 3.0 | 3.4 | 2.6 |
| Sioux Falls | 96.0 | 101.2 | 96.7 | 101.5 | 2.4 | 2.0 | 1.9 | 1.6 | 2.5 | 2.0 | 2.0 | 1.6 |
| Tennessee ..... | 2,660.7 | 2,760.2 | 2,647.8 | 2,755.4 | 147.0 | 130.7 | 135.7 | 122.1 | 5.5 | 4.7 | 5.1 | 4.4 |
| Chattanooga | 219.7 | 225.5 | 219.2 | 225.1 | 10.6 | 9.9 | 10.4 | 9.4 | 4.8 | 4.4 | 4.7 | 4.2 |
| Clarksville-Hopkinsville | 79.3 | 82.6 | 79.0 | 82.6 | 3.5 | 3.1 | 3.2 | 2.9 | 4.4 | 3.8 | 4.0 | 3.5 |
| Jackson ................................ | 54.2 | 56.8 | 53.5 | 56.6 | 2.7 | 2.1 | 2.5 | 2.1 | 5.0 | 3.8 | 4.7 | 3.7 |
| Johnson City-Kingsport-Bristol | 223.8 | 233.0 | 223.2 | 232.0 | 10.7 | 10.8 | 10.2 | 9.9 | 4.8 | 4.6 | 4.6 | 4.3 |
| Knoxville .............................. | 328.9 | 341.2 | 329.0 | 340.6 | 17.8 | 14.9 | 14.9 | 12.2 | 5.4 | 4.4 | 4.5 | 3.6 |
| Memphis | 522.8 | 540.1 | 517.6 | 539.3 | 22.9 | 21.9 | 22.4 | 21.7 | 4.4 | 4.1 | 4.3 | 4.0 |
| Nashville | 601.5 | 635.5 | 599.4 | 635.6 | 20.7 | 18.9 | 20.4 | 18.6 | 3.4 | 3.0 | 3.4 | 2.9 |
| Texas | 9,750.1 | 9,973.8 | 9,751.9 | 9.996 .0 | 535.6 | 459.5 | 502.1 | 421.4 | 5.5 | 4.6 | 5.1 | 4.2 |
| Abilene | 60.1 | 60.5 | 59.9 | 60.6 | 2.7 | 2.0 | 2.4 | 1.8 | 4.5 | 3.3 | 4.0 | 3.0 |
| Amarillo | 109.8 | 111.5 | 110.0 | 111.6 | 4.5 | 3.8 | 4.1 | 3.4 | 4.1 | 3.4 | 3.8 | 3.1 |
| Austin-San Marcos .... | 641.2 | 663.9 | 642.0 | 666.1 | 20.1 | 16.5 | 18.1 | 15.0 | 3.1 | 2.5 | 2.8 | 2.3 |
| Beaumont-Port Arthur | 179.2 | 181.0 | 179.1 | 181.5 | 14.9 | 12.2 | 14.4 | 11.7 | 8.3 | 6.8 | 8.1 | 6.4 |
| Brazoria | 105.3 | 105.0 | 104.2 | 104.6 | 7.4 | 6.0 | 7.5 | 5.6 | 7.0 | 5.7 | 7.2 | 5.3 |
| Brownsville-Harlingen-San Benito | 124.8 | 127.8 | 124.6 | 126.9 | 15.1 | 15.6 | 15.0 | 14.0 | 12.1 | 12.2 | 12.0 | 11.1 |
| Bryan-College Station .................. | 70.7 | 72.1 | 71.5 | 72.8 | 1.5 | 1.1 | 1.4 | 1.0 | 2.1 | 1.5 | 2.0 | 1.4 |
| Corpus Christi ............ | 177.7 1.771 .6 | 175.1 | 177.1 1.777 | 175.8 | 14.7 | 10.5 | 13.7 | 10.2 | 8.3 | 6.0 | 7.7 | 5.8 |
| Dallas. | 1.771 .6 | 1,844.8 | 1,777.9 | 1,846.9 | 67.0 | 57.2 | 63.1 | 53.0 | 3.8 | 3.1 | 3.5 | 2.9 |
| El Paso | 286.4 | 287.1 | 286.2 | 287.5 | 32.6 | 27.4 | 30.9 | 25.5 | 11.4 | 9.5 | 10.8 | 8.9 |
| Fort Worth-Arlington | 833.2 | 853.8 | 836.6 | 859.7 | 30.7 | 26.9 | 29.0 | 25.0 | 3.7 | 3.1 | 3.5 | 2.9 |
| Galveston-Texas City | 123.4 | 123.3 | 123.8 | 123.6 | 10.2 | 7.8 | 10.2 | 7.2 | 8.3 | 6.3 | 8.2 | 5.8 |
| Houston .......... | 2,027.3 | 2,080.7 | 2,023.2 | 2,085.4 | 105.5 | 81.6 | 101.6 | 76.4 | 5.2 | 3.9 | 5.0 | 3.7 |
| Killeen-Temple . | 112.4 | 113.8 | 112.8 | 114.5 | 5.9 | 4.8 | 5.4 | 4.4 | 5.3 | 4.2 | 4.8 | 3.9 |
| Laredo ................ | 69.6 | 70.2 | 69.5 | 70.3 | 8.1 | 6.6 | 7.2 | 6.2 | 11.6 | 9.4 | 10.4 | 8.8 |
| Longview-Marshall | 102.4 | 102.6 | 102.6 | 102.6 | 7.7 | 6.5 | 7.2 | 5.9 | 7.5 | 6.4 | 7.0 | 5.8 |
| Lubbock | 121.1 | 123.2 | 121.1 | 123.7 | 4.7 | 4.1 | 4.4 | 3.7 | 3.9 | 3.3 | 3.7 | 3.0 |
| McAllen-Edinburg-Mission | 191.9 | 199.5 | 188.8 | 195.9 | 36.0 | 34.8 | 31.1 | 28.9 | 18.8 | 17.5 | 16.5 | 14.8 |
| Odessa-Midland .............. | 121.4 | 124.9 | 122.4 | 125.4 | 6.5 | 5.3 | 6.3 | 5.3 | 5.4 | 4.2 | 5.1 | 4.2 |
| San Angelo ........ | 51.2 | 50.8 | 51.3 | 50.6 | 1.7 | 1.5 | 1.6 | 1.4 | 3.4 | 3.0 | 3.2 | 2.7 |
| San Antonio ........ | 735.5 | 755.0 | 735.8 | 757.9 | 28.9 | 27.4 | 26.9 | 24.4 | 3.9 | 3.6 | 3.7 | 3.2 |
| Sherman-Denison | 50.0 | 49.8 | 49.8 | 50.0 | 2.4 | 2.0 | 2.3 | 1.9 | 4.8 | 4.0 | 4.6 | 3.8 |

See footnotes at end of table.

C-3. Labor force status by State and metropolitan area-Continued
(Numbers in thousands)

| State and area | Civilian labor force |  |  |  | Unemployed |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Number |  |  |  | Percent of labor force |  |  |  |
|  | March |  | April |  | March |  | April |  | March |  | April |  |
|  | 1997 | 1998 | 1997 | 1998p | 1997 | 1998 | 1997 | $1998{ }^{\text {p }}$ | 1997 | 1998 | 1997 | $1998{ }^{\text {p }}$ |
| Texas-Continued |  |  |  |  |  |  |  |  |  |  |  |  |
| Texarkana | 56.3 | 57.2 | 56.2 | 57.1 | 4.3 | 4.3 | 4.0 | 3.9 | 7.6 | 7.4 | 7.1 | 6.8 |
| Tyler .... | 87.6 | 89.1 | 87.6 | 89.5 | 5.0 | 4.3 | 4.6 | 4.0 | 5.7 | 4.8 | 5.3 | 4.4 |
| Victoria | 42.5 | 43.1 | 42.6 | 43.3 | 2.3 | 1.8 | 2.2 | 1.7 | 5.4 | 4.1 | 5.1 | 4.0 |
| Waco ..... | 99.0 | 100.7 | 99.1 | 101.2 | 4.5 | 4.4 | 4.2 | 4.0 | 4.6 | 4.4 | 4.2 | 4.0 |
| Wichita Falls | 65.1 | 65.8 | 65.5 | 66.1 | 2.9 | 3.0 | 2.7 | 2.7 | 4.4 | 4.5 | 4.2 | 4.1 |
| Utah ......... | 1,005.4 | 1.058 .6 | 1.012 .7 | 1,064.8 | 30.3 | 32.5 | 30.6 | 32.5 | 3.0 | 3.1 | 3.0 | 3.1 |
| Provo-Orem | 150.4 | 156.9 | 151.2 | 157.8 | 3.8 | 4.0 | 3.8 | 4.1 | 2.6 | 2.6 | 2.5 | 2.6 |
| Salt Lake City-Odgen .... | 645.4 | 680.9 | 649.5 | 684.5 | 17.7 | 19.5 | 18.3 | 20.0 | 2.7 | 2.9 | 2.8 | 2.9 |
| Vermont | 320.6 | 329.1 | 320.4 | 327.1 | 14.5 | 12.6 | 13.9 | 11.3 | 4.5 | 3.8 | 4.3 | 3.4 |
| Burlington | 95.0 | 99.4 | 95.8 | 98.7 | 2.9 | 2.5 | 2.8 | 2.0 | 3.1 | 2.5 | 2.9 | 2.1 |
| Virginia ............ | 3,321.8 | 3,531.1 | 3,339.3 | 3,531.4 | 131.5 | 112.1 | 126.8 | 89.7 | 4.0 | 3.2 | 3.8 | 2.5 |
| Charlottesville | 70.8 | 74.6 | 71.6 | 75.1 | 1.8 | 1.1 | 1.5 | 0.8 | 2.5 | 1.5 | 2.1 | 1.1 |
| Danville | 54.8 | 57.7 | 55.2 | 58.1 | 3.2 | 2.9 | 3.5 | 3.0 | 5.9 | 5.1 | 6.3 | 5.2 |
| Lymchburg | 99.3 | 103.4 | 99.4 | 103.4 | 4.0 | 2.8 | 3.6 | 2.3 | 4.0 | 2.7 | 3.6 | 2.2 |
| Norfolk-Virginia Beach-Newport News | 702.6 | 740.6 | 705.9 | 739.1 | 32.5 | 26.7 | 32.4 | 21.7 | 4.6 | 3.6 | 4.6 | 2.9 |
| Richmond-Petersburg ........................ | 482.4 | 522.9 | 486.7 | 522.8 | 15.8 | 14.5 | 15.8 | 11.7 | 3.3 | 2.8 | 3.2 | 2.2 |
| Roanoke ................. | 123.9 | 130.1 | 124.4 | 128.9 | 4.3 | 3.6 | 4.4 | 2.8 | 3.5 | 2.8 | 3.5 | 2.2 |
| Washington | 2,941.0 | 3,008.6 | 2,954.4 | 2,978.4 | 164.3 | 141.1 | 146.7 | 124.0 | 5.6 | 4.7 | 5.0 | 4.2 |
| Bellingham | 77.7 | 79.3 | 77.9 | 77.7 | 5.3 | 4.6 | 4.4 | 3.9 | 6.9 | 5.8 | 5.7 | 5.0 |
| Bremerton | 92.8 | 90.8 | 92.6 | 89.1 | 5.6 | 4.5 | 4.9 | 4.1 | 6.0 | 4.9 | 5.3 | 4.6 |
| Olympia | 98.0 | 99.4 | 97.6 | 98.4 | 5.5 | 4.8 | 4.9 | 4.3 | 5.6 | 4.8 | 5.0 | 4.3 |
| Richland-Kennewick-Pasco | 97.6 | 90.0 | 93.5 | 90.9 | 7.5 | 6.7 | 6.6 | 6.0 | 8.2 | 7.5 | 7.0 | 6.6 |
| Seattle-Bellevue-Everelt | 1,322.7 | 1,375.3 | 1,326.2 | 1.361 .7 | 50.8 | 40.2 | 45.8 | 37.2 | 3.8 | 2.9 | 3.5 | 2.7 |
| Spokane | 205.0 | 208.9 | 205.7 | 205.6 | 11.7 | 9.9 | 9.6 | 8.0 | 5.7 | 4.7 | 4.7 | 3.9 |
| Tacoma . | 327.5 | 333.1 | 328.5 | 328.0 | 16.5 | 14.5 | 15.0 | 13.1 | 5.0 | 4.4 | 4.6 | 4.0 |
| Yakima | 109.6 | 109.9 | 111.8 | 109.2 | 13.4 | 12.7 | 12.8 | 10.7 | 12.2 | 11.6 | 11.5 | 9.8 |
| West Virginia | 797.3 | 797.8 | 800.1 | 799.3 | 62.4 | 60.3 | 57.6 | 53.8 | 7.8 | 7.6 | 7.2 | 6.7 |
| Charleston | 129.8 | 129.8 | 129.6 | 130.2 | 6.9 | 6.8 | 6.5 | 6.1 | 5.3 | 5.2 | 5.0 | 4.7 |
| Huntington-Ashland | 135.9 | 138.5 | 137.0 | 137.7 | 9.8 | 9.4 | 9.2 | 8.2 | 7.2 | 6.8 | 6.7 | 6.0 |
| Parkersburg-Marietta | 75.9 | 77.7 | 76.3 | 77.4 | 4.9 | 5.2 | 4.3 | 4.4 | 6.5 | 6.7 | 5.6 | 5.7 |
| Wheeling .................. | 73.4 | 73.6 | 74.2 | 73.4 | 6.5 | 5.0 | 6.2 | 3.8 | 8.9 | 6.8 | 8.3 | 5.2 |
| Wisconsin | 2.883 .1 | 2,928.6 | 2,896.7 | 2,924.9 | 128.1 | 110.9 | 117.7 | 78.5 | 4.4 | 3.8 | 4.1 | 2.7 |
| Appleton-Oshkosh-Neenah | 218.6 | 224.3 | 219.4 | 224.8 | 8.6 | 6.9 | 7.4 | 5.3 | 3.9 | 3.1 | 3.4 | 2.4 |
| Eau Claire ........................ | 81.3 | 83.0 | 82.5 | 83.0 | 3.9 | 3.4 | 3.6 | 2.2 | 4.8 | 4.1 | 4.4 | 2.6 |
| Green Bay | 130.4 | 130.8 | 131.0 | 130.6 | 4.8 | 4.1 | 4.5 | 2.9 | 3.7 | 3.1 | 3.4 | 2.3 |
| Janesville-Beloit | 79.1 | 79.9 | 79.4 | 79.2 | 3.4 | 2.9 | 3.2 | 2.2 | 4.4 | 3.6 | 4.1 | 2.7 |
| Kenosha | 77.3 | 78.7 | 77.6 | 78.6 | 2.9 | 2.5 | 2.7 | 1.9 | 3.7 | 3.1 | 3.4 | 2.5 |
| La Crosse | 70.1 | 71.2 | 71.0 | 71.7 | 2.7 | 2.4 | 2.3 | 1.5 | 3.9 | 3.4 | 3.3 | 2.1 |
| Madison ..... | 256.1 | 260.7 | 257.1 | 261.3 | 5.3 | 4.7 | 4.7 | 3.1 | 2.1 | 1.8 | 1.8 | 1.2 |
| Milwaukee-Waukesha | 796.5 | 812.5 | 795.4 | 810.9 | 29.9 | 24.7 | 28.9 | 20.9 | 3.8 | 3.0 | 3.6 | 2.6 |
| Racine ..... | 91.7 | 95.0 | 92.0 | 95.0 | 4.5 | 3.9 | 4.0 | 3.1 | 4.9 | 4.1 | 4.3 | 3.3 |
| Sheboygan | 59.2 | 60.2 | 59.4 | 59.9 | 1.7 | 1.6 | 1.5 | 1.0 | 2.8 | 2.6 | 2.6 | 1.7 |
| Wausau .... | 71.3 | 72.8 | 71.5 | 72.3 | 3.6 | 3.3 | 3.0 | 2.1 | 5.0 | 4.5 | 4.2 | 2.8 |
| Wyoming .. | 248.1 | 254.0 | 248.0 | 253.7 | 15.8 | 13.4 | 14.7 | 11.5 | 6.4 | 5.3 | 5.9 | 4.5 |
| Casper ..... | 32.8 | 33.8 | 32.5 | 33.4 | 2.3 | 1.8 | 2.1 | 1.6 | 7.1 | 5.3 | 6.6 | 4.7 |
| Cheyenne ... | 38.4 | 39.5 | 38.8 | 39.5 | 1.7 | 1.5 | 1.6 | 1.2 | 4.4 | 3.8 | 4.1 | 3.1 |
| Puerto Rico | 1,296.8 | 1,326.4 | 1,294.3 | 1,307.7 | 167.7 | 177.6 | 175.9 | 174.4 | 12.9 | 13.4 | 13.6 | 13.3 |
| Aguadilla | 50.9 | 52.3 | 51.7 | 51.8 | 9.3 | 9.9 | 9.9 | 9.5 | 18.3 | 18.9 | 19.2 | 18.4 |
| Arecibo | 52.6 | 54.1 | 52.8 | 52.7 | 8.5 | 8.8 | 9.2 | 8.4 | 16.2 | 16.3 | 17.4 | 15.9 |
| Caguas | 114.7 | 117.7 | 113.9 | 114.8 | 13.0 | 14.6 | 13.7 | 13.6 | 11.4 | 12.4 | 12.0 | 11.8 |
| Mayaguez | 91.8 | 93.8 | 92.0 | 92.6 | 13.9 | 15.2 | 14.7 | 14.8 | 15.2 | 16.2 | 15.9 | 16.0 |
| Ponce ...... | 110.3 | 113.9 | 109.7 | 112.0 | 19.9 | 19.7 | 20.1 | 19.8 | 18.1 | 17.3 | 18.3 | 17.7 |
| San Juan-Bayamon .......... | 702.4 | 719.8 | 700.3 | 711.8 | 71.8 | 76.7 | 74.5 | 75.5 | 10.2 | 10.7 | 10.6 | 10.6 |

p = preliminary
when new benchmark and population information becomes available.
NOTE: Data refer to place of residence. All estimates are provisional and will be revised

# Explanatory Notes and Estimates of Error 

## 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 the Current Population Survey (CPS), 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, classified by 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 50,000 households (beginning with January 1996 data) located in 754 sample areas. These areas are chosen to represent all counties and independent cities in the U.S., 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 and telephone interviews by the Bureau of Labor Statistics, in cooperation with State agencies. The Current Employment Statistics (CES) 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 based on payroll reports from a sample of about 390,000 establishments employing about 48 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 of the month.

## RELATION BETWEEN THE HOUSEHOLD AND ESTABLISHMENT SERIES

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

Data from these two sources differ from each other because of variations in definitions and coverage, source 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 data series are as follows.

## Employment

Coverage. The household survey definition of employment comprises wage and salary workers (including domestics and other private household workers), self-employed persons, and unpaid workers who worked 15 hours or more during the reference week in family-operated enterprises. Employment in both agricultural and nonagricultural industries is included. The payroll survey covers only wage and salary employees on the payrolls of 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. 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 reference week-that is, were not working but had jobs from which they were temporarily absent because of illness, vacation, bad weather, childcare problems, 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 those on leave without pay for the entire payroll period are not.

## Hours of work

The household survey measures hours worked for all workers whereas the payroll survey measures hours for private production and nonsupervisory workers paid for by employers. In the household survey, all persons with a job but not at work are excluded from the hours distributions and the computations of average hours at work. In the pay-
roll survey, production or nonsupervisory employecs 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 the 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 various earnings serics available from the household and establishment surveys, see BLS Measures of Compensation, BLS Bulletin 2239 (1986).

## COMPARABILITY OF HOUSEHOLD DATA WITH OTHER SERIES

Unemployment insurance data. The unemployed total from the household survey includes all persons who did not have a job during the reference week, were currently available for a job, 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 U.S. Department of Labor, exclude, in addition to otherwise ineligible persons who do not file claims for benefits, 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 scrvices, and religious organizations, and self-employed and unpaid family workers).

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 "Mcasuring Total and State Insured Unemploy-
ment" by Gloria P. Green in the June 1971 issue of the Monthly Labor Review.

Agricultural employment estimates of the U.S. Department of Agriculture. The principal differences in coverage are the inclusion of persons under 16 in the National Agricultural 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 data 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 PAYROLL EMPLOYMENT DATA WITH OTHER SERIES

Statistics on manufacturers 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, Bureau of the Census. Data in County Business Patterns (CBP) 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 most of government, and coverage is incomplete for some of the nonprofit agencies.

Employment covered by State unemployment insurance programs. Most nonfarm wage and salary workers are covered by the unemployment insurance programs. However, some employees, such as those working ir: parochial schools and churches, are not covered by unemployment insurance, whereas they are included in the BLS establishment statistics.

# Household Data ("A" tables, monthly; "D" tables, quarterly) 

## COLLECTION AND COVERAGE

Statistics on the employment status of the population and related data are compiled by BLS using data from the Current Population Survey (CPS). This monthly survey of households is conducted for BLS by the Bureau of the Census 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 day of the month. This is known as the "reference week." Actual field interviewing is conducted in the following week, referred to as the "survey week."

Each month about 50,000 occupied units are eligible for interview. Some 3,200 of these households are contacted 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 that ranges between 6 and 7 percent. In addition to the 50,000 occupied units, there are about 9,000 sample units in an average month which are visited but found to be vacant or otherwise not eligible for enumeration. Part of the sample is changed each month. The rotation plan, as will be explained later, 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 earlicr.

## 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 in use as of January 1994 are as follows:

Civilian noninstitutional population. Included are persons 16 years of age and older residing in the 50 States and the District of Columbia who are not inmates of institutions (e.g., penal and mental facilities, homes for the aged), and who are not on active duty in the Armed Forces.
Employed persons. All persons who, during the reference week, (a) did any work at all (at least 1 hour) as paid employecs, worked 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 vacation, illness, bad weather, child-care problems, maternity or paternity leave, labor-management dispute, job training, 0 other family or personal reasons, whether or not they were paid for the time off or were seeking other jobs.

Each employed person is counted only once, even if he or she holds more than one job. For purposes of occupation and industry classification, multiple jobholders are counted in the job at which they worked the greatest number of hours during the reference 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 their own house (painting, repairing, or own home housework) or volunteer work for religious, charitable, and other organizations.

Unemployed persons. All persons who had no employment during the reference week, were available for work, except for temporary illness, and had made specific efforts to find employment some time during the 4 -week-period ending with the reference week. Persons who were waiting to be recalled to a job from which they had been laid off need not have been looking for work to be classified as unemployed.

Duration of unemployment. This represents the length of time (through the current reference week) that persons classified as unemployed had been looking for work. For persons on layoff, duration of unemployment represents the number of full weeks they had been on layoff. Mean duration is the arithmetic average computed from single weeks of unemployment; median duration is the midpoint of a distribution of weeks of unemployment.

Reason for 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 five major groups: (1) Job losers, comprised of (a) persons on temporary layoff, who have been given a date to return to work or who expect to return within 6 months (persons on layoff need not be looking for work to qualify as unemployed), and (b) permanent job losers, whose employment ended involuntarily and who began looking for work; (2) Job leavers, persons who quit or otherwise terminated their employment voluntarily and immediately began looking for work; (3) Persons who completed temporary jobs, who began looking for work after the jobs ended; (4) Reentrants, persons who previously worked but were out of the labor force prior to beginning their job search; and (5) New entrants, persons who never worked. Each of these five categories of the unemployed can be expressed as a proportion of the entire civilian labor force; the sum of the four rates thus equals the unemployment rate for all civilian workers. (For statistical presentation purposes, "job losers" and "persons who completed temporary jobs" are combined into a single category until seasonal adjustments can be developed for the separate categories.)

Jobseekers. All unemployed persons who made specific efforts to find a job sometime during the 4 -week period preceding the survey week are classified as jobseekers. Jobseekers do not include persons classified as on temporary layoff, who although often looking for work, are not required to do so to be classified as unemployed. Jobseckers are grouped by the methods used to seek work. Only active methods--which have the potential to result in a job offer without further action on the part of the jobseeker-qualify as job search. Examples include going to an employer directly or to a public or private employment agency, seeking assistance from friends or relatives, placing or answering ads, or using some other active 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. Passive methods, which do not qualify as job search, include reading (as opposed to answering or placing) "help wanted" ads and taking a job training course.

Labor force. This group comprises all persons classified as employed or unemployed in accordance with the criteria described above.

Unemployment rate. The unemployment rate represents the number unemployed as a percent of the labor force.

Participation rate. This represents the proportion of the population that is in the labor force,

Employment-population ratio. This represents the proportion of the population that is employed.

Not in the labor force. Included in this group are all persons in the civilian noninstitutional population who are neither employed nor unemployed. Information is collected on their desire for and availability to take a job at the time of the CPS interview, job search activity in the prior year, and reason for not looking in the 4 -week period prior to the survey week. This group includes discouraged workers, defined as persons not in the labor force who want and are available for a job and who have looked for work sometime in the past 12 months (or since the end of their last job if they held one within the past 12 months), but are not currently looking, because they believe there are no jobs available or there are none for which they would qualify.

Persons classified as not in the labor force who are in the sample for either their fourth or eighth month are asked additional questions relating to job history and workseeking intentions. These latter data are available on a quarterly basis.

Occupation, industry, and class of worker. This information for the employed applies to the job held in the reference week. Persons with two or more jobs are classified in the job at which they worked the greatest number of hours. The unemployed are classified according to their last job. The occupational and industrial classification of CPS data is based on the coding systems used in the 1990 census.

The class-of-worker breakdown assigns workers to the following categories: Private and government wage and salary workers, self-employed workers, and unpaid family workers. Wage and salary workers receive wages, salary, commissions, 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, trade, or farm. Only the unincorporated self-employed are included in the self-employed category in the class of worker typology. Self-employed persons who respond that their businesses are incorporated are included among wage and salary workers, because technically, they are paid employees of a corporation. 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.

Multiple jobholders. These are employed persons who, during the reference week, had either two or more jobs as a wage and salary worker, were self-employed and also held a wage and salary job, or worked as an unpaid family worker and also held a wage and salary job. Excluded are self-emi ployed persons with multiple businesses and persons with multiple jobs as unpaid family workers.
Hours of work. These statistics relate to the actual number of hours worked during the reference 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 published figures relate to the number of hours worked in all jobs during the week; all the hours are credited to the major job. Unpublished data are available for the hours worked in each job and for usual hours.

At work part time for economic reasons. Sometimes referred to as involuntary part time, this category refers to individuals who gave an economic reason for working 1 to 34 hours during the reference week. Economic reasons include slack work or unfavorable business conditions, inability to find full-time work, and seasonal declines in demand. Those who usually work part time must also indicate that they want and are available to work full time to be classified as on part time for economic reasons.
At work part time for noneconomic reasons. This group includes those persons who usually work part time and were at work 1 to 34 hours during the reference week for a noneconomic reason. Noneconomic reasons include, for example: Illness or other medical limitations, child-care problems or other family or personal obligations, school or training, retirement or Social Security limits on earnings, and being in a job where full-time work is less than 35 hours. The group also includes those who gave an economic reason for usually working 1 to 34 hours but said they do not want to work full time or were unavailable for such work.

Ustual full- or part-time status. Data on persons "at work" exclude persons who were temporarily absent from a job and therefore classified 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. In order to differentiate a person's normal schedule from their activity during the reference week, persons are also classified according to their usual full- or part-time status. In this context, full-time workers are those who usually worked 35 hours or more (at all jobs combined). This group will include some individuals who worked less than 35 hours in the reference week for either economic or noneconomic reasons and those who are temporarily absent from work. Similarly, part-time workers are those who usually work less than 35 hours per week (at all jobs), regardless of the number of hours worked in the reference week. This may include some individuals who actually worked more than 34 hours in the reference week, as well as those who are temporarily absent from work. The full-time labor force includes all employed persons who usually work full time and unemployed persons who are either looking for full-time work or are on layoff from full-time jobs. The part-time labor force consists of employed persons who usually work part time and unemployed persons who are seeking or are on layoff from part-time jobs. Unemployment rates for fulland part-time workers are calculated using the concepts of the full-and part-time labor force.

White, black, and other. These are terms used to describe the race of persons. Included in the "other" group are American Indians, Alaskan Natives, and Asians and Pacific Islanders. Because of the relatively small sample size, data for "other" races are not published. In the enumeration process, race is determined by the household respondent.
Hispanic origin. This refers to persons who identified themselves in the enumeration process as Mexican, Puerto Rican, 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. These are persons who served in the Armed Forces of the United States between August 5, 1964, and May 7, 1975. Published data are limited to men in the civilian noninstitutional population; i.e., veterans in institutions and women are excluded. Nonveterans are persons who never served in the Armed Forces.

Usual weekly earnings. Data represent earnings before taxes and other deductions, and include any overtime pay, commissions, or tips usually received (at the main job in the case of multiple jobholders.) Earnings reported on a basis other than weekly (e.g., annual, monthly, hourly) are converted to weekly. 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 all selfemployed persons regardless of whether or not their business's were incorporated) who usually work full time on their sole or primary job.

Median earnings. These figures 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. These are the 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 living in 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 relates to persons who are separated due to marital problems, as well as husbands and wives who are living apart because one or the other was employed elsewhere, on duty with the Armed Forces, or any other reasons.

Household. A household consists of all persons-related family members and all unrelated persons-who occupy a housing unit and have no other usual address. 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. A family is defined as 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. 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.

## HISTORICAL COMPARABILITY

## Changes in concepts and methods

While current survey concepts and methods are very similar to those introduced at the inception of the survey in 1940, a number of changes have been made over the years to improve the accuracy and usefulness of the data. Some of the most important changes include:

- In 1945, the questionnaire was radically changed with
the introduction of four basic employment questions. Prior to that time, the survey did not contain specific question wording, but rather relied on a complicated scheme of activity prioritization.
- In 1953, the current 4-8-4 rotation system was adopted, whereby households are interviewed for 4 consecutive months, leave the sample for 8 months, and then return to the sample for the same 4 months of the following year. Before this system was introduced, households were interviewed for 6 consecutive months and then replaced. The new system provided some year-to-year overlap in the sample, thereby improving measurement over time.
- In 1955, the survey reference week was changed to the calendar week including the 12th day of the month, for greater consistency with the reference period used for other labor-related statistics. Previously, the calendar week containing the 8th day of the month had been used as the reference week.
- In 1957, the employment definition was modified slightly as a result of a comprehensive interagency review of labor frrce concepts and methods. Two relatively small groups of persons classified as employed, under "with a job but not at work," were assigned to different classifications. Persons on layoff with definite instructions to return to work within 30 days of the layoff date, and persons volunteering that they were waiting to start a new wage and salary job within 30 days of interview, were, for the most part, reassigned to the unemployed classification. The only exception was the small subgroup in school during the reference week but waiting to start new jobs, which was transferred to not in the labor force.
- In 1967, more substantive changes were made as a result of the recommendations of the President's Committee to Appraise Employment and Unemployment Statistics (the Gordon Committee). The principal improvements were as follows:
a) A 4-week job search period and specific questions on jobseeking activity were introduced. Previously, the questionnaire was ambiguous as to the time period for jobseeking and there were no specific questions concerning job search methods.
b) An availability test was introduced whereby a person must be currently available for work in order to be classified as unemployed. Previously, there was no such requirement. This revision to the concept mainly affected students, who, for example, may begin to look for summer jobs in the spring although they will not be available until June or July. Such persons, until 1967, had been classified as unemployed but since have been assigned to the "not in the labor force" category.
c) Persons "with a job but not at work" because of strikes, bad weather, etc., who volunteered that they were looking for work, were shifted from unemployed status to employed.
d) The lower age limit for official statistics on employment, unemployment, and other labor force concepts was raised from 14 to 16 years. Historical data for most major series have been revised to provide consistent information based on the new minimum age limit.
e) New questions were added to obtain additional information on persons not in the labor force, including those referred to as "discouraged workers," defined as persons who indicate that they want a job but are not currently looking because they believe there are no jobs available or none for which they would qualify.
f) New "probing" questions were added to the questionnaire in order to increase the reliability of information on hours of work, duration of unemployment, and self-employment.
- In 1994, major changes to the Current Population Survey (CPS) were introduced, which included a complete redesign of the questionnaire and the use of computer-assisted interviewing for the entire survey. In addition, there were revisions to some of the labor force concepts and definitions, including the implementation of some changes recommended in 1979 by the National Commission on Employment and Unemployment Statistics (NCEUS, also known as the Levitan Commission). Some of the major changes to the survey were:
a) The introduction of a redesigned and automated questionnaire. The CPS questionnaire was totally redesigned in order to obtain more accurate, comprehensive, and relevant information, and to take advantage of state-of-the-art computer interviewing techniques.
b) The addition of two, more objective, criteria to the definition of discouraged workers. Prior to 1994, to be classified as a discouraged worker, a person must have wanted a job and be reported as not currently looking because of a belief that no jobs were available or that there were none for which he or she would qualify. Beginning in 1994, persons classified as discouraged must also have looked for a job within the past year (or since their last job, if they worked during the year), and must have been available for work during the reference week (a direct question on availability was added in 1994; prior to 1994, availability had been inferred from responses to other questions). These changes were made because the NCEUS and others felt that the previous definition of discouraged workers was too subjective, relying mainly on an individual's stated desire for a job and not on prior testing of the labor market.
c) Similarly, the identification of persons employed part time for economic reasons (working less than 35 hours in the reference week because of poor business conditions or because of an inability to find full-time work) was tightened by adding two new criteria for persons who usually work part time: They must want and be available for fulltime work. Previously, such information was inferred. (Per-
sons who usually work full time but worked part time for an economic reason during the reference week are assumed to meet these criteria.)
d) Specific questions were added about the expectation of recall for persons who indicate that they are on layoff. To be classified as "on temporary layoff," persons must expect to be recalled to their jobs. Previously, the questionnaire did not include explicit questions about the expectation of recall.
e) Persons volunteering that they were waiting to start a new job within 30 days must have looked for work in the 4 weeks prior to the survey in order to be classified as unemployed. Previously, such persons did not have to meet the job search requirement in order to be included among the unemployed.

For additional information on changes in CPS concepts and methods, see Concepts and Methods used in Labor Force Statistics Derived from the Current Population Survey, BLS Report 463, October 1976 and "Overhauling the Current Population Survey-Why is it Necessary to Change?," "Redesigning the Questionnaire," and "Evaluating Changes in the Estimates," Monthly Labor Review, September 1993, and "Revisions in the Current Population Survey Effective January 1994," in the February 1994 issue of this publication.

## Noncomparability of labor force levels

In addition to the refinements in concepts, definitions, and methods made over the years, other changes have also affected the comparability of the labor force data.

- 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.
- 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.
- 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.
- 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 ; unemployment levels and rates were essentially unchanged.
- In March 1973, a subsequent population adjustment based on the 1970 census was introduced. 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.
- Beginning in January 1974, the method 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 Inflation-Deflation Method of Estimation," in the February 1974 issue of this publication.
- Effective in July 1975, as a result of the large inflow 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, with all of the changes being confined to the "other" component of the 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 this publication.
- 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 seveneighths 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 adjustment 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 this publication.
- Beginning in January 1982, the second-stage ratio adjustment method was changed. 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 this publication. In addition, current population estimates used in the second-stage estimation procedure were derived from information obtained from the 1980 census, rather than the 1970 census. This change caused substantial increases in the total population and in the 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 also is described in the February 1982 article cited above. The revisions did not, however, smooth out the breaks in series occurring between 1972 and 1979 (described above), and data users should consider them when comparing estimates from different periods.
- Beginning in January 1983, the first-stage ratio adjustment method was updated to incorporate data 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 this publication. 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 method 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 foreignborn 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 population and labor
force estimates were raised by about 425,000 and 305,000 , respectively, and Hispanic 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 were revised back to January 1980 to the extent possible. An explanation of the changes and their effect on estimates of labor force characteristics appear 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.
- Beginning in January 1994, 1990 census-based population controls, adjusted for the estimated undercount, were introduced into the second stage estimation procedure. This change resulted in substantial increases in total population and in all major labor force categories. Effective February 1996, these controls were introduced into the estimates for 1990-93. Under the new population controls, the civilian noninstitutional population for 1990 increased by about 1.1 million, employment by about 880.000 , and unemployment by approximately 175,000 . The overall unemployment rate rose by about 0.1 percentage point. For further information, see "Revisions in the Current Population Survey Effective January 1994," and "Revisions in Household Survey Data Effective February 1996" in the February 1994 and March 1996 issues, respectively, of this publication.

Additionally, for the period January through May 1994, the composite estimation procedure was suspended due to technical and logistical reasons.

- Beginning in January 1997, the population controls used in the second-stage ratio adjustment method were revised to reflect updated information on the demographic characteristics of immigrants to, and emigrants from, the United States. As a result, the civilian noninstitutional population 16 years and over was raised by about 470,000. The labor force and employment levels were increased by about 320,000 , and 290,000 , respectively. The Hispanic-origin population and labor force estimates were raised by about 450,000 and 250,000 respectively, and Hispanic employment by 325,000 . Overall and subgroup unemployment rates and other percentages of labor market participation were not affected. An explanation of the changes and their effect on national labor force estimates appear in "Revisions in the Current Population Survey Effective January 1997" in the February 1997 issue of this publication.

Effective with data for January 1998, new composite estimation procedures and minor revisions in the population controls were introduced into the household survey. The new composite estimation procedures simplify processing of the monthly labor force data at BLS, allow users of the
survey microdata to replicate more easily the official estimates released by BLS, and increase the reliability of the employment and labor force estimates. The new procedures also produce somewhat lower estimates of the civilian labor force and employment and slightly higher estimates of unemployment. For example, based on 1997 annual average data, using old and new composite weights, the differences were as follows: Civilian labor force ( $-229,000$ ), total employed $(-256,000)$, and total unemployed $(+27,000)$. Unemployment rates were not significantly affected.

The population controls used in the survey were revised to reflect new estimates of legal immigration to the U.S. and a change in the method for projecting the emigration of foreign-born legal residents. As a result, the Hispanic-origin population was raised by about 57,000 ; however, the total civilian noninstitutional population 16 years and over was essentially unchanged. More detailed information on these changes and their effect on the estimates of labor force change and composition appear in "Revisions in the Current Population Survey Effective January 1998," in the February 1998 issue of this publication.

## 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 comparisons 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 this publication.

Beginning in January 1983, the occupational and industrial classification systems used in the 1980 census were introduced into the CPS. The 1980 census occupational classification system evolved from the Standard Occupational Classification (SOC) system and was 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 was based on the 1972 Standard Industrial Classification (SIC) system, 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 this publication.

Beginning in January 1992, the occupational and industrial classification systems used in the 1990 census were introduced into the CPS. (These systems were largely based on the 1980 Standard Occupational Classification (SOC) and 1987 Standard Industrial Classification (SIC) systems, respectively.) There were a few breaks in comparability between the 1980 and 1990 census-based systems, particularly within the "technical, sales, and administrative support" categories. The most notable changes in industry classification were the shift of several industries from "business services" to "professional services" and the splitting of some industries into smaller, more detailed categories. A number of industry titles were changed as well, with no change in content.

## Sampling

Since the inception of the survey, there have been various changes in the design of the CPS sample. The sample is traditionally redesigned and a new sample selected after each decennial census. Also, the number of sample areas and the number of sample persons are changed occasionally. Most of these changes are made in order to improve the efficiency of the sample design, increase the reliability of the sample estimates, or control cost.

Changes in this regard since 1960 are as follows: When Alaska and Hawaii received statehood in 1959 and 1960, respectively, three sample areas were added to the existing sample to account for the population of these States. In January 1978, a supplemental sample of 9,000 housing units, selected in 24 States and the District of Columbia, was designed to provide more reliable annual average estimates for States. In October 1978, a coverage improvement sample of approximately 450 sample household units representing 237,000 occupied mobile homes and 600,000 new construction housing units was added. In January 1980, another supplemental sample of 9,000 households selected in 32 States and the District of Columbia was added. A sample reduction of about 6,000 units was implemented in May 1981. In January 1982, the sample was expanded by 100 households to provide additional coverage in counties added to the Standard Metropolitan Statistical Areas (SMSA's), which were redefined in 1973. In January 1985, a new Statebased CPS sample was selected based on 1980 census information. A sample reduction of about 4,000 households was implemented in April 1988; they were reinstated during the 8 -month period, April-November 1989. A redesigned CPS sample based on the 1990 decennial census was selected for use during the 1990's. Households from this new sample
were phased into the CPS between April 1994 and July 1995. The July 1995 sample was the first monthly sample based entirely on the 1990 census. For further information on the 1990 sample redesign, see "Redesign of the Sample for the Current Population Survey" in the May 1994 issue of this publication.
The original 1990 census-based sample design included about 66,000 housing units per month located in 792 selected geographic areas called primary sampling units (PSU's). The sample was initially selected to meet specific reliability criteria for the Nation, for each of the 50 States and the District of Columbia, and for the sub-State areas of New York City and the Los Angeles-Long Beach metropolitan area. In 1996, the original sample design reliability criteria were modified to reduce costs. The current criteria, given below, are based on the coefficient of variation (CV) of the unemployment level, where the CV is defined as the standard error of the estimate divided by the estimate, expressed as a percentage. These CV controls assume a 6 -percent unemployment rate to establish a consistent specification of sampling error.

The current sample design, introduced in January 1996, includes about 59,000 households from 754 sample areas and maintains a 1.9-percent CV on national monthly estimates of unemployment level. This translates into a change of 0.2 percentage point in the unemployment rate being significant at a 90 -percent confidence level. For each of the fifty States and for the District of Columbia, the design maintains a CV of at most 8-percent on the annual average estimate of unemployment level, assuming a 6 -percent unemployment rate. Due to the national reliability criterion, estimates for several large States are substantially more reliable than the State design criterion requires. Annual average unemployment estimates for California, Florida, New York, and Texas, for example, carry a CV of less than 4 percent.

In the first stage of sampling, the 754 sample areas are chosen. In the second stage, ultimate sampling unit clusters composed of about four housing units each are selected. Each month, about 59,000 housing units are assigned for data collection, of which about 50,000 are occupied and thus eligible for interview. The remainder are units found to be destroyed, vacant, converted to nonresidential use, containing persons whose usual place of residence is elsewhere, or ineligible for other reasons. Of the 50,000 housing units, about 6.5 percent are not interviewed in a given month due to temporary absence (vacation, etc.), other failures to make contact after repeated attempts, inability of persons contacted to respond, unavailability for other reasons, and refusals to cooperate (about half of the noninterviews). Information is obtained each month for about 94,000 persons 16 years of age or older

Selection of sample areas. The entire area of the United States, consisting of 3,141 counties and independent cities, is divided into 2,007 sample units (PSU's). In most States, a PSU consists of a county or a number of contiguous coun-
ties. In New England and Hawaii, minor civil divisions are used instead of counties.

Metropolitan areas within a State are used as a basis for forming PSU's. Outside of metropolitan areas, counties normally are combined except when the geographic area of an individual county is too large. Combining counties to form PSU's provides greater heterogeneity; a typical PSU includes urban and rural residents of both high and low economic levels and encompasses, to the extent feasible, diverse occupations and industries. Another important consideration is that the PSU be sufficiently compact so that, with a small sample spread throughout, it can be efficiently canvassed without undue travel cost.

The 2,007 PSU's are grouped into strata within each State. Then one PSU is selected from each stratum with the probability of selection proportional to the population of the PSU. Nationally, there are a total of 428 PSU's in strata by themselves. These strata are self-representing and are generally the most populous PSU's in each State. The 326 remaining strata are formed by combining PSU's that are similar in such characteristics as unemployment, proportion of housing units with three or more persons, number of persons employed in various industries, and average monthly wages for various industries. The single PSU randomly selected from each of these strata is non-self-representing because it represents not only itself but the entire stratum. The probability of selecting a particular PSU in a non-self-representing stratum is proportional to its 1990 population. For example, within a stratum, the chance that a PSU with a population of 50,000 would be selected for the sample is twice that for a PSU having a population of 25,000 .

Selection of sample households. Because the sample design is State based, the sampling ratio differs by State and depends on State population size as well as both national and State reliability requirements. The State sampling ratios range roughly from 1 in every 100 households to 1 in every 3,000 households. The sampling ratio occasionally is modified slightly to hold the size of the sample relatively constant given the overall growth of the population. The sampling ratio used within a sample PSU depends on the probability of selection of the PSU and the sampling ratio for the State. In a sample PSU with a probability of selection of 1 in 10 and a State sampling ratio of 3,000 , a withinPSU sampling ratio of 1 in 300 achieves the desired ratio of 1 in 3,000 for the stratum.

The 1990 within-PSU sample design was developed using block-level data from the 1990 census. (The 1990 census was the first decennial census that produced data at the block level for the entire country.) Normally, census blocks are bounded by streets and other prominent physical features such as rivers or railroad tracks. County, Minor Civil Division, and census place limits also serve as block boundaries. In cities, blocks can be bounded by four streets and be quite small in land area. In rural areas, blocks can be several square miles in size.

For the purpose of sample selection, census blocks were grouped into three strata: Unit, group quarters, and area. (Occasionally, units within a block were split between the unit and group quarters strata.) The unit stratum contained regular housing units with addresses that were easy to locate (e.g. most single family homes, townhouses, condominiums, apartment units, and mobil homes). The group quarters stratum contained housing units where residents shared common facilities or received formal or authorized care or custody. Unit and group quarters blocks exist primarily in urban areas. The area stratum contains blocks with addresses that are more difficult to locate. Area blocks exist primarily in rural areas.

To reduce the variability of the survey estimates and to ensure that the within-PSU sample would reflect the demographic and socioeconomic characteristics of the PSU, blocks within the unit, group quarters, and area strata were sorted using geographic and block-level data from the census. Examples of the census variables used for sorting include proportion of minority renter-occupied housing units, proportion of housing units with female householders, and proportion of owner-occupied housing units. The specific sorting variables used differed by type of PSU (urban or rural) and stratum.

Within each block, housing units were sorted geographically and grouped into clusters of approximately four units. A systematic sample of these clusters was then selected independently from each stratum using the appropriate withinPSU sampling ratio. The geographic clustering of the sample units reduces field representative travel costs. Prior to interviewing, special listing procedures are used to locate the particular sample addresses in the group quarters and area blocks.

Units in the three strata described above all existed at the time of the 1990 decennial census. Through a series of additional procedures, a sample of building permits is included
in the CPS to represent housing units built after the decennial census. Adding these newly built units keeps the sample up-to-date and representative of the population. It also helps to keep the sample size stable: over the life of the sample, the addition of newly built housing units compensates for the loss of "old" units which may be abandoned, demolished, or converted to nonresidential use.

Rotation of sample. Part of the sample is changed each month. Each monthly sample is divided into eight representative subsamples or rotation groups. A given rotation group is interviewed for a total of 8 months, divided into two equal periods. It is in the sample for 4 consecutive months, leaves the sample during the following 8 months, and then returns for another 4 consecutive months. In each monthly sample, one of the eight rotation groups is in the first month of enumeration, another rotation group is in the second month, and so on. Under this system, 75 percent of the sample is common from month to month and 50 percent from year to year for the same month. This procedure provides a substantial amount of month-to-month and year-to-year overlap in the sample, thus providing better estimates of change and reducing discontinuities in the series of data without burdening any specific group of households with an unduly long period of inquiry.
CPS sample, 1947 to present. Table 1-A provides a description of some aspects of the CPS sample designs in use since 1947. 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. A description of the 1990 census-based sample design appears in "Redesign of the Sample for the Current Population Survey," in the May 1994 issue of this publication.

Table 1-A. Characteristics of the CPS sample, 1947 to present

| 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 |
| April 1989 to Oct. $1994{ }^{3}$............................ | 729 | 57,400 | 2,600 | 11,800 |
| Nov. 1994 to Aug. 19954 .......................... | 792 | 54,500 | 3,500 | 10,000 |
| Sept. 1995 to Dec. 1995 ............................. | 792 | 52,900 | 3,400 | 9,700 |
| Jan. 1996 to present | 754 | 46,800 | 3,200 | 9,000 |

[^22][^23]
## 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. Since 1985, most sample persons within the same State have had the same probability of selection. Some selection probabilities may differ within a State due to the sample design or for operational reasons. Field subsampling, for example, which is carried out when areas selected for the sample are found to contain many more households than expected, may cause probabilities of selection to differ for some sample areas within a State. Through a series of estimation steps (outlined below), the selection probabilities are adjusted for noninterviews and survey undercoverage; data from previous months are incorporated into the estimates through the composite estimation procedure.

1. Noninterview adjustment. The weights for all interviewed households are adjusted to account for occupied sample households for which no information was obtained because of absence, impassable roads, refusals, or unavailability of the respondents for other reasons. This noninterview adjustment is made separately for clusters of similar sample areas that are usually, but not necessarily, contained within a State. Similarity of sample areas is based on Metropolitan Statistical Area (MSA) status and size. Within each cluster, there is a further breakdown by residence. Each MSA cluster is split by "central city" and "balance of the MSA." Each non-MSA cluster is split by "urban" and "rural" residence categories. The proportion of sample households not interviewed varies from 6 to 7 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 State of residence. Because 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 adjustment, as follows:
a. First-stage ratio estimation. The purpose of the firststage ratio adjustment is to reduce the contribution to variance that results from selecting a sample of PSU's rather than drawing sample households from every PSU in the Nation. This adjustment is made to the CPS weights in two race cells: Black and nonblack; it is applied only to PSU's
that are not self-representing and for those States that have a substantial number of black households. The procedure corrects for differences that existed in each State cell at the time of the 1990 census between 1) the race distribution of the population in sample PSU's and 2) the race distribution of all PSU's (both 1 and 2 exclude self-representing PSU's).
b. Second-stage ratio estimation. This procedure substantially reduces the variability of estimates and corrects, to some extent, for CPS undercoverage. The CPS sample weights are adjusted to ensure that sample-based estimates of population match independent population controls. Three sets of controls are used:
1) 51 State controls of the civilian noninstitutional population 16 years of age and older,
2) National civilian noninstitutional population controls for 14 Hispanic and 5 non-Hispanic age-sex categories,
3) National civilian noninstitutional population controls for 66 white, 42 black, and 10 "other" age-sex categories.

The independent population controls are prepared by projecting forward the resident population as enumerated on April 1, 1990. The projections are derived by updating demographic census data with information from a variety of other data sources that account for births, deaths, and net migration. Estimated numbers of resident Armed Forces personnel and institutionalized persons reduce the resident population to the civilian noninstitutional population. Estimates of net census undercount, determined from the Post Enumeration Survey, are added to the population projections. Prior to January 1994, the projections were based on earlier censuses, and there was no correction for census undercount. A summary of the current procedures used to make population projections is given in "Revisions in the Current Population Survey Effective January 1994," appearing in the February 1994 issue of this publication.
3. Composite estimation procedure. The last step in the preparation of most CPS estimates makes use of a composite estimation procedure. The composite estimate consists of a weighted average of two factors: The two-stage ratio estimate based on the entire sample from the current month and the composite estimate for the previous month, plus an estimate of the month-to-month change based on the six rotation groups common to both months. In addition, a bias adjustment term is added to the weighted average to account for relative bias associated with month-in-sample estimates. This month-in-sample bias is exhibited by unemployment estimates for persons in their first and fifth months in the CPS being generally higher than estimates obtained for the other months.

The composite estimate results in a reduction in the sampling error beyond that which is achieved after the two stages of ratio adjustment. For some items, the reduction is substantial. The resultant gains in reliability are greatest in estimates of month-to-month change, although gains are also usually obtained for estimates of level in a given month, change from year to year, and change over other intervals of time.

## 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 indicate primarily the magnitude of the sampling error. They also incorporate the effect of some nonsampling errors in response and enumeration but do not account for 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., the inability to obtain information about all persons in the sample; differences in the interpretation of questions; inability or unwillingness of respondents to provide correct information; inability to recall information; errors made in collecting and 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 are 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. The CPS covers about 92 percent of the decennial census population (adjusted for census undercount). 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 than for whites. Ratio adjustment 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.

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. When a sample rather than the entire population is surveyed, estimates differ from the true population values that they represent. This difference, or sampling error, occurs by chance, and its variability is measured by the standard error of the estimate. Sample estimates from a given survey design are unbiased when an average of the estimates from all possible samples would yield, hypothetically, the true population value. In this case, the sample estimate and its standard error can be used to construct approximate confidence intervals, or ranges of values, that include the true population value with known probabilities. If the process of selecting a sample from the population were repeated many times and an estimate and its standard error calculated for 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 true population value.
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 true population value
3. Approximately 95 percent of the intervals from two
standard errors below the estimate to two standard errors above the estimate would include the true population value.

Although the estimating methods used in the CPS do not produce unbiased estimates, biases for most estimates are believed to be small enough so that these confidence interval statements are approximately true.

Since it would be too costly to develop standard errors for all CPS estimates, generalized variance function techniques are used to calculate sets of standard errors for various types of labor force characteristics. It is important to keep in mind that standard errors computed from these methods reflect contributions from sampling errors and some kinds of nonsampling errors and indicate the general magnitude of an estimate's standard error rather than its precise value.

The generalized variance functions and standard errors provided here are based on the sample design and estimation procedures as of 1987 and have been adjusted to reflect the population levels and sample size as of 1996. Standard errors for years prior to 1996 may be roughly approximated by adjusting, as follows, the standard errors presented here.

1. For the years 1967 through 1995, multiply the standard errors by 0.96 .
2. For the years 1956 through 1966, multiply the standard errors by 1.17 .
3. For years prior to 1956, multiply the standard errors by 1.44 .

More accurate standard error estimates for historical CPS data may be found in previous issues of this publication.

Tables 1-B through 1-H are provided so that approximate standard errors of estimates can be easily obtained. These tables are briefly summarized here; details illustrating the proper use of each table follow.
Tables 1-B and 1-C show standard errors for estimated monthly levels and rates for selected employment status characteristics; these tables also provide standard errors for consecutive month-to-month changes in the estimates. These standard errors are based on levels of recent estimates and can be determined directly by finding the characteristic of interest.

Tables 1-D and 1-E show standard errors for monthly levels and consecutive monthly changes in levels for general employment status characteristics. The standard errors are calculated using linear interpolation based on the size of the monthly estimates.

Tables 1-F and 1-G give parameters that can be used with formulas to calculate a standard error on nearly any specified level, unemployment rate, percentage, or consecutive month-to-month change. For monthly levels and consecutive month-to-month changes in levels, tables 1-F and 1-G are preferred to tables $1-\mathrm{D}$ and $1-\mathrm{E}$, since the formulas provide more accurate results than linear interpolation.

Table 1-B. Standard errors for major employment status categories
(In thousands)

| Category | Monthly level | Consecutivemonth change |
| :---: | :---: | :---: |
| Total, 16 years and over: |  |  |
| Civilian labor force ................... | 293 | 216 |
| Employed .............................. | 312 | 235 |
| Unemployed .......................... | 145 | 161 |
| Men, 20 years and over: |  |  |
| Civilian labor force ................... | 194 | 164 |
| Employed .............................. | 206 | 174 |
| Unemployed .......................... | 97 | 113 |
| Women, 20 years and over: |  |  |
| Civilian labor force ................... | 219 | 165 |
| Employed ............................. | 224 | 171 |
| Unemployed .......................... | 91 | 105 |
| Both sexes, 16 to 19 years: |  |  |
| Civilian labor force ................... | 97 | 95 |
| Employed .............................. | 96 | 95 |
| Unemployed ........................... | 62 | 81 |
| Black, 16 years and over: |  |  |
| Civilian labor force .................. | 138 | 101 |
| Employed ............................. | 140 | 105 |
| Unemployed .......................... | 66 | 76 |
| Men, 20 years and over: |  |  |
| Civilian labor force ................... | 78 | 69 |
| Employed ............................. | 71 | 72 |
| Unemployed .......................... | 43 | 50 |
| Women, 20 years and over: |  |  |
| Civilian labor force ................... | 98 | 73 |
| Employed ............................. | 97 | 74 |
| Unemployed .......................... | 44 | 51 |
| Both sexes, 16 to 19 years: |  |  |
| Civilian labor force ................... | 40 | 42 |
| Employed .............................. | 35 | 37 |
| Unemployed .......................... | 32 | 37 |
| Hispanic origin, 16 years and over: |  |  |
| Civilian labor force ................... | 130 | 91 |
| Employed .............................. | 134 | 107 |
| Unemployed .......................... | 63 | 73 |

Table $1-\mathrm{H}$ presents factors used to convert standard errors of monthly levels and rates determined from tables 1 B, 1-C, 1-D, and 1-F to standard errors pertaining to quarterly and yearly averages, consecutive year-to-year changes of monthly estimates, and changes in quarterly and yearly averages.

The standard errors for estimated changes from 1 month to the next, 1 year to the next, etc., depend more on the monthly levels for characteristics than on the size of the changes. Accordingly, tables 1-E, 1-G, and 1-H use monthly levels (not the magnitude of the changes) for approximating standard errors of change. Standard errors for estimated change between nonconsecutive months are not provided (except for year-to-year change); however, these may be assumed to be higher than the standard errors for consecutive monthly change.

Table 1-C. Standard errors for unemployment rates by major characteristics

| Characteristic | Monthly level | Consecutivemonth change |
| :---: | :---: | :---: |
| Total, 16 years and over. | 0.11 | 0.13 |
| Men, 16 years and over ............................ | . 15 | . 18 |
| Men, 20 years and over | . 14 | . 17 |
| Women, 16 years and over ....................... | . 16 | . 19 |
| Women, 20 years and over ....................... | . 16 | . 19 |
| Both sexes, 16 to 19 years ........................ | . 74 | . 97 |
| White workers | . 11 | . 13 |
| Biack workers | . 45 | . 53 |
| Hispanic-origin workers ............................ | . 50 | . 59 |
| Married men, spouse present .................... | . 15 | . 18 |
| Married women, spouse present | . 18 | . 22 |
| Women who maintain families ................... | . 54 | . 64 |
| Occupation |  |  |
| Executive, administrative, and managerial .. | . 20 | . 24 |
| Professional specialty .............................. | . 20 | . 23 |
| Technicians and related support ................. | . 45 | . 54 |
| Sales | . 30 | . 36 |
| Administrative support, including clerical ..... | . 25 | . 30 |
| Private household | 1.75 | 2.08 |
| Protective service | . 67 | . 80 |
| Service, except private household and protective service $\qquad$ | . 38 | . 45 |
| Precision production, craft, and repair ......... | . 34 | . 40 |
| Machine operators, assemblers, and inspectors $\qquad$ | . 49 | . 58 |
| Transportation and material moving............ | . 55 | . 66 |
| Handlers, equipment cleaners, helpers. and laborers $\qquad$ | . 73 | . 87 |
| Farming, forestry, and fishing .................... | . 73 | . 87 |
| Industry |  |  |
| Nonagricultural private wage and salary workers | . 13 | . 15 |
| Goods-producing industries ................... | . 25 | . 30 |
| Mining | 1.39 | 1.65 |
| Construction | . 68 | . 81 |
| Manufacturing .................................. | . 26 | . 31 |
| Durable goods | . 32 | . 38 |
| Nondurable goods ......................... | . 42 | . 50 |
| Service-producing industries ................. | . 15 | . 18 |
| Transportation, communications, and public utilities $\qquad$ | . 42 | . 50 |
| Wholesale and retail trade | . 27 | . 32 |
| Finance and services ......................... | . 19 | . 23 |
| Government workers ................................ | . 21 | . 25 |
| Agricultural wage and salary workers ......... | 1.18 | 1.40 |

Use of tables $1-B$ and $1-C$. These table provide a quick reference for standard errors of major characteristics. Table 1-B gives approximate standard errors for estimates of monthly levels and consecutive month-to-month changes in levels for major employment status categories. Table 1-C gives approximate standard errors for estimates of monthly unemployment rates and consecutive month-to-month changes in unemployment rates for some demographic, industrial, and occupational categories. For characteristics not given in tables 1-B and 1-C, refer to either tables 1-D and 1E or tables 1-F and 1-G.

Illustration. Suppose that for a given month the number of women 20 years and over in the civilian labor force is estimated to be $54,000,000$. For this characteristic, the approximate standard error of 219,000 is given in table $1-\mathrm{B}$ in the row, "Total, 16 years and over: Women, 20 years and over: Civilian labor force." A 90-percent confidence interval, as shown by these data, would then be the interval from $53,650,000$ to $54,350,000$. Concluding that the true labor force level lies within this interval would be correct for roughly 90 percent of all possible samples.

Use of tables 1-D and 1-E. From these tables, approximate standard errors can be calculated for estimates of monthly levels and month-to-month changes in levels for major labor force characteristics by race and Hispanic origin. For major categories not shown, such as male or female, tables 1-F and 1-G can be used. Standard errors for intermediate values not shown in the tables may be approximated by linear interpolation. For table 1-E, which applies to estimates of consecutive month-to-month change, the average of the two monthly levels (not the change) is used to select the appropriate row in the table.

Illustration. Assume that between 2 consecutive months the estimated number of employed persons changed from $115,600,000$ to $116,700,000$, an apparent increase of $1,100,000$. The approximate standard error on this month-to-month change estimate is based on the average level of the estimate for the 2 months, $16,150,000$. Using the table 1-E column titled "Labor force data other than agricultural employment and unemployment, Total," it is necessary to find the standard errors corresponding to the two monthly level entries between which the value $116,150,000$ lies. The standard error corresponding to $100,000,000$ is given as 274,000 , and the standard error corresponding to $120,000,000$ is given as 246,000 . Use linear interpolation to find the approximate standard error on month-to-month change corresponding to the level $116,150,000$; one method of calculation is given below.
$246,000+\left(\frac{120,000,000-116,150,000}{120,000,000-100,000,000}\right)(274,000-246,000) \div 251,000$
Thus, a 90-percent confidence interval for the true month-to-month change would be approximately the interval from 698,000 to $1,502,000$.

Use of tables 1-F and I-G. These tables can be used to find approximate standard errors for a wide range of estimated monthly levels, proportions, rates, and estimates of consecutive monthly change. Instead of displaying standard errors, these tables provide parameters to be used with the formulas given below that allow the user to calculate standard errors.

Table 1-D. Standard errors for estimates of monthly levels
(In thousands)

| Estimated monthly level | Characteristic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Agricultural employment |  | Unemployment |  |  | Labor force data other than agricultural employment and unemployment |  |  |  |  |
|  | Total or white | Black | Total or white | Black | Hispanic origin | Total | White | Black | Hispanic origin |  |
|  |  |  |  |  |  |  |  |  | Employed | Civilian labor force or not in labor force |
| 50 | 12 | 13 | 12 | 13 | 13 | 12 | 12 | 13 | 14 | 14 |
| 100 | 18 | 18 | 17 | 18 | 19 | 17 | 17 | 18 | 20 | 20 |
| 500 | 41 | 39 | 38 | 39 | 42 | 39 | 39 | 39 | 44 | 44 |
| 1,000 | 62 | 55 | 54 | 54 | 59 | 54 | 54 | 55 | 61 | 61 |
| 2,000. | 96 | 76 | 76 | 74 | 82 | 77 | 77 | 76 | 83 | 83 |
| 4,000 . | 157 |  | 107 | 96 | 113 | 108 | 108 | 103 | 111 | 111 |
| 6,000 | 216 |  | 131 | 106 |  | 131 | 131 | 120 | 126 | 126 |
| 8,000 | 273 |  | 150 | 108 |  | 151 | 150 | 131 | 134 | 134 |
| 10,000 | 330 |  | 167 | 101 |  | 168 | 167 | 137 | 135 | 135 |
| 15,000 |  |  | 201 |  |  | 202 | 201 | 137 | 110 | 110 |
| 20,000 ................ |  |  | 228 |  |  | 229 | 227 | 113 |  |  |
| 30,000 ................. |  |  |  |  |  | 271 | 267 |  |  |  |
| 40,000 ............... |  |  |  |  |  | 302 | 296 |  |  |  |
| 50,000 ................ |  |  |  |  |  | 324 | 315 |  |  |  |
| 60,000 ................ |  |  |  |  |  | 340 | 327 |  |  |  |
| 70,000 ................ |  |  |  |  |  | 350 | 333 |  |  |  |
| 80,000 ............... |  |  |  |  |  | 354 | 333 |  |  |  |
| 100,000 .............. |  |  |  |  |  | 349 | 313 |  |  |  |
| 120,000 .............. |  |  |  |  |  | 322 | 264 |  |  |  |
| 140,000 .............. |  |  |  |  |  | 267 | 159 |  |  |  |
| 160,000 .............. |  |  |  |  |  |  |  |  |  |  |
| 180,000 .............. |  |  |  |  |  |  |  |  |  |  |

Table 1-E. Standard errors for estimates of month-to-month change in levels
(In thousands)

| Estimated monthly level | Characteristic |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Agricultural employment |  | Unemployment |  |  | Labor force data other than agricultural employment and unemployment |  |  |  |  |
|  | Total or white | Black | Total or white | Black | Hispanic origin | Total | White | Black | Hispanic origin |  |
|  |  |  |  |  |  |  |  |  | Employed | Civilian labor force or not in labor force |
| 50 ......................... | 14 | 12 | 14 | 15 | 16 | 10 | 10 | 10 | 12 | 10 |
| 100 ....................... | 19 | 17 | 20 | 21 | 22 | 14 | 14 | 15 | 17 | 14 |
| 500 ....................... | 43 | 37 | 46 | 46 | 50 | 32 | 32 | 33 | 37 | 31 |
| 1,000 .................... | 59 | 52 | 64 | 63 | 69 | 45 | 45 | 45 | 51 | 43 |
| 2,000 .................... | 78 | 72 | 89 | 84 | 95 | 63 | 63 | 62 | 70 | 59 |
| 4,000 .................... | 95 |  | 124 | 104 | 127 | 88 | 88 | 84 | 93 | 78 |
| 6,000 .................... | 94 |  | 148 | 106 |  | 108 | 108 | 97 | 105 | 89 |
| 8,000 .................... | 73 |  | 166 | 92 |  | 123 | 123 | 104 | 110 | 94 |
| 10,000 .................. |  |  | 180 | 47 |  | 137 | 137 | 108 | 110 | 95 |
| 15,000 ................. |  |  | 204 |  |  | 165 | 165 | 100 | 79 | 76 |
| 20,000 .................. |  |  | 215 |  |  | 187 | 187 | 58 |  |  |
| 30,000 .................. |  |  |  |  |  | 221 | 221 |  |  |  |
| 40,000 .................. |  |  |  |  |  | 245 | 245 |  |  |  |
| 50,000 .................. |  |  |  |  |  | 262 | 262 |  |  |  |
| 60,000 .................. |  |  |  |  |  | 274 | 274 |  |  |  |
| 70,000 .................. |  |  |  |  |  | 281 | 281 |  |  |  |
| 80,000 .................. |  |  |  |  |  | 283 | 283 |  |  |  |
| 100,000 ................. |  |  |  |  |  | 274 | 274 |  |  |  |
| 120,000 ................ |  |  |  |  |  | 246 | 246 |  |  |  |
| 140,000 ................ |  |  |  |  |  | 188 | 188 |  |  |  |
| 160,000 ................. |  |  |  |  |  |  |  |  |  |  |
| 180,000 ................. |  |  |  |  |  |  |  |  |  |  |

Table 1-G, which applies to estimates of consecutive monthly change, lists parameters for some characteristics classified by a measure of correlation between monthly estimates. Estimates of the number of persons employed full time, for example, change relatively little from one month to the next, and the two monthly estimates are said to be highly correlated. Consecutive monthly estimates of parttime employment, by contrast, have low correlation, since these estimates are relatively volatile.

Major characteristics for which consecutive monthly estimates are known to have high or low correlation are indicated in table 1-G. Not all categories in table 1-G, however, are broken down into low or high correlation characteristics. When high or low correlation is not specified in table 1-G, the parameters in table 1-G should be selected from the rows labeled "Most characteristics" or from rows not specifying correlation.

Standard errors of estimated levels. The approximate standard error, $s_{\mathrm{x}}$, of an estimated monthly level, x , can be obtained using the formula below, where $a$ and $b$ are the parameters from table 1-F associated with the particular characteristic. The same formula can be used to approximate the standard error of an estimated month-to-month change in level; simply average the levels for the 2 consecutive months and use the parameters from table 1-G.

$$
s_{x}=\sqrt{a x^{2}+b x}
$$

Illustration. Assume that in a given month there are an estimated 6 million unemployed men in the civilian labor force ( $x=6,000,000$ ). Obtain the appropriate $a$ and $b$ parameters from table 1-F ("Unemployment: Total or white"). Use the formula to compute an approximate standard error on the estimate of $6,000,000$.

$$
a=-0.000017962 \quad b=2957.13
$$

$$
s_{x}=\sqrt{(-0.000017962)(6,000,000)^{2}+(2957.13)(6,000,000)} \stackrel{=}{=} 131,000
$$

Suppose that in the next month the estimated number of unemployed men increases by 200,000 to $6,200,000$. The average of the monthly levels is $x=6,100,000$. Obtain the appropriate a and b parameters from table 1-G ("Unemployment: Total or white, Total, men, women'). Use the formula to compute an approximate standard error on the estimated change of 200,000 .

$$
\begin{gathered}
\mathrm{a}=-0.000093662 \quad \mathrm{~b}=4191.84 \\
\mathrm{~s}_{\mathrm{x}}=\sqrt{-(0.000093662)(6,100,000)^{2}+(4191.84)(6,100,000)} \doteq 149,000
\end{gathered}
$$

An approximate 90 -percent confidence interval for the true month-to-month change would be the interval from
$-38,000$ to 438,000 . Because this interval covers zero, one cannot assert at this level of confidence that any real change has occurred in the unemployment level. This result can also be expressed by saying that the apparent change of 200,000 is not significant at a 90 -percent confidence level.

Standard errors of estimated percentages and rates. Generally, percentages and rates are not published unless the monthly base (denominator) is greater than 75,000 persons, the quarterly average base is greater than 60,000 persons, or the annual average base is greater than 35,000 persons.

The reliability of an estimated percentage or rate depends upon the magnitude of the percentage or rate and its base. When the numerator and base are in different categories, use the parameters from table 1-F or $1-\mathrm{G}$ relevant to the numerator. The approximate standard error, $\mathrm{s}_{\mathrm{y}, \mathrm{p}}$, of an estimated percentage or rate, $p$, can be obtained using the following formula, where $y$ is the estimated number of persons in the base.

$$
s_{y, p}=\sqrt{\frac{b}{y} p(100-p)}
$$

Illustration. For a given month, suppose that 5,600,000 women, 20 to 24 years of age, are estimated to be employed. Of this total, $1,800,000$ or 32 percent are classified as parttime workers. To estimate the standard error on this percentage, proceed as follows. Obtain the parameter $\mathrm{b}=$ 2529.99 from table 1-F ("Labor force and not-in-labor-force data other than agricultural employment and unemployment: Total, Women"). Apply the formula to obtain:

$$
\mathrm{s}_{\mathrm{y}, \mathrm{p}}=\sqrt{\frac{2529.99}{5,600,000}(32)(100-32)} \doteq 1.0 \text { percent }
$$

Suppose that in the next month $5,700,000$ women in this same age group are reported employed and that 1,950,000 or 34 percent are part-time workers. To estimate the standard error on the observed month-to-month change of 2 percentage points, first average the values for $p$ and $y$ over the 2 months to get $p=33$ percent and $y=5,650,000$. Next, obtain the parameter $\mathrm{b}=2690.59$ from table $1-\mathrm{G}$ ("Labor force and not-in-labor-force data other than agricultural employment and unemployment: Total or white, Women: Low correlation characteristics") and apply the formula as follows.

$$
\mathrm{s}_{\mathrm{y}, \mathrm{p}}=\sqrt{\frac{2690.59}{5,650,000}(33)(100-33)} \doteq 1.0 \text { percent }
$$

It should be noted that the numerator of the percentage (part-time employed) determined the choice of correlation.

Table 1-F. Parameters for computation of standard errors for estimates of monthly levels

| Characteristic | a | b |
| :---: | :---: | :---: |
| Labor force and not-in-laborforce data other than agricultural employment and unemployment: |  |  |
| Total ${ }^{1}$ | -0.000017682 | 2985.26 |
| Men ${ }^{1}$ | -. 000032770 | 2764.05 |
| Women. | -. 0000029553 | 2529.99 |
| Both sexes, 16 to 19 years ...... | -. 000171805 | 2544.62 |
|  | -. 000020028 | 2984.72 |
| Men ................................... | -. 000036840 | 2766.67 |
| Women ............................... | -. 000033710 | 2526.82 |
| Both sexes, 16 to 19 years .... | -. 000204195 | 2549.88 |
| Black ..................................... | -. 000125300 | 3139.26 |
| Men | -. 000302096 | 2930.79 |
| Women ............................... | -. 000182509 | 2637.41 |
| Both sexes, 16 to 19 years .... | -. 001294516 | 2949.48 |
| Hispanic origin ....................... | -. 000206380 | 3895.71 |
| Not in labor force, total or white, excluding women and 16-to19 year olds $\qquad$ | . 000005931 | 828.79 |
| Agricultural employment: |  |  |
| Total or white .............................. | . 000782035 | 3048.57 |
| Men ....................................... | . 000858136 | 2825.09 |
| Women or both sexes, 16 to 19 years $\qquad$ | -. 000024885 | 2582.39 |
| Black ....................................... | $-.000134884$ | 3154.76 |
| Hispanic origin: |  |  |
| Total or women ........................ | . 011857446 | 2894.85 |
| Men or both sexes, 16 to 19 years $\qquad$ | . 015736341 | 1702.50 |
| Unemployment: |  |  |
| Total or white .............................. | -. 000017962 | 2957.13 |
| Black ...................................... | -. 000212109 | 3149.77 |
| Hispanic origin ........................... | -. 000101820 | 3576.47 |

${ }^{1}$ Excludes not-in-labor-force data.
If the example had illustrated percentages of women employed full time, the numerator would have been a high correlation characteristic. Table 1-G, however, does not explicitly list high correlation parameters for employed women; thus, the row labeled "Women, Most characteristics" would have been used.

Had the example dealt with teenage women employed part time, either of two rows in table 1-G could have been applied ("Women: Low correlation characteristics" or "Both sexes, 16 to 19 years"). In situations like this, where it is not clear which row applies, a general rule to follow is to choose the row with the largest $b$ parameter. This gives $a$ more conservative estimate of standard error.

Use of table 1-H. Use this table with table 1-B, 1-C, 1-D, or 1-F to calculate approximate standard errors for quarterly
or yearly averages, changes in consecutive quarterly or yearly averages, and consecutive year-to-year changes in monthly estimates. Table $1-\mathrm{H}$ gives factors that can be used to convert standard errors for monthly levels into standard errors for other time periods and changes over time. Follow these three basic steps:

Step 1. Average estimates appropriately. For quarterly estimates, average the 3 monthly estimates. For yearly estimates, average the 12 monthly estimates. For changes in consecutive averages, average over the 2 quarters or 2 years. For consecutive year-to-year changes in monthly estimates, average the 2 months involved.

Step 2. Obtain a standard error on a monthly estimate using table 1-B or 1-C, or apply the procedures for table $1-$ $D$ or 1-F to the average calculated in step 1 , as if the average were an estimate for a single month.

Step 3. Determine the standard error on the average or on the estimate of change. Multiply the result from step 2 by the appropriate factor from table 1-H.

Illustration. Suppose that standard errors are desired for a quarterly average of black employment levels and for the change in averages from 1 quarter to the next. For each successive month of the first quarter, suppose the levels are observed to be $11,500,000,11,600,000$, and $11,700,000$.

Step 1. The quarterly average is $11,600,000$.
Step 2. Obtain the $a$ and $b$ parameters from table 1- $F$ ("Labor force and not-in-labor-force data other than agricultural employment and unemployment: Black"). Use the formula for $s_{X}$ to compute an approximate standard error for a monthly estimate of $11,600,000$.

$$
a=-0.000125300 \quad b=3139.26
$$

$S_{x}=\sqrt{(-0.000125300)(11,600,000)^{2}+(3139.26)(11,600,000)} \doteq 140,000$
Step 3. Multiply this result by the factor .87 from table 1-H (column labeled "Quarterly averages" and row labeled "Labor force and not-in-labor-force data other than agricultural employment and unemployment, Black"). This gives an approximate standard error of 122,000 on the quarterly average of $11,600,000$.

Proceed to obtain the approximate standard error on the change in consecutive quarterly average estimates of black employment. Assume that black employment estimates for the months in the second quarter are observed to be $11,100,000,11,200,000$, and $11,300,000$.

Step 1. The average for the second quarter is $11,200,000$.

Table 1-G. Parameters for computation of standard errors for estimates of month-to-month change in levels

| Characteristic | a | b |
| :---: | :---: | :---: |
| Labor force and not-in-labor-force data other than agricultural employment and unemployment: |  |  |
| Total or white: |  |  |
| Most characteristics | -0.000012482 | 2001.12 |
| High correlation characteristics ${ }^{1}$ | -. 000009288 | 1564.84 |
| Low correlation characteristics ${ }^{1}$ | -. 000016162 |  |
| Men: |  |  |
| Most characteristics | -. 000022599 | 1921.13 |
| High correlation characteristics ............................................................................................... | -. 000016814 | 1500.99 |
| Low correlation characteristics .............................................. | -. 000058387 | 2668.56 |
| Women: |  |  |
| Most characteristics | -. 000021229 | 1689.99 |
| Low correlation characteristics ................................................ | -. 000059785 | 2690.59 |
| Both sexes, 16 to 19 years ......................................................... | -. 000186555 | 2616.54 |
| Black: |  |  |
| Most characteristics | -. 000098960 | 2147.36 |
| Low correlation characteristics ................................................ | -. 001928030 | 6513.82 |
| Men: |  |  |
| Most characteristics | -. 000234427 | 2280.03 |
| Low correlation characteristics ................................................ | -. 002881467 | 5829.60 |
| Women: |  |  |
| Most characteristics .............................................................. | -. 000156363 | 1860.78 |
| Low correlation characteristics ................................................ | -. 002311407 | 5420.13 |
| Both sexes, 16 to 19 years ........................................................ | -. 001288452 | 3131.77 |
| Hispanic origin: |  |  |
| Total | -. 000157201 | 2774.53 |
| Civilian labor force and not in labor force .................................... | -. 000102898 | 1930.51 |
| Low correlation characteristics ................................................. | -. 002624078 | 8620.43 |
| Men, civilian labor force and not in labor force ............................. | -. 000248038 | 2347.42 |
| Men, 16 years and over; 20 years and over; and both sexes, 16 to 19 years | -. 000398909 | 3615.62 |
| Women, 16 years and over and 20 years and over ................... | -. 0000338741 | 2569.69 |
| Agricuitural employment: |  |  |
| Total or white: |  |  |
| Total ...................................................................................... | -. 0000395757 | 3838.04 |
| Men . | -. 000672985 | 3959.25 |
| Women or both sexes, 16 to 19 years ........................................ | . 000130289 | 2367.00 |
| Black: |  |  |
| Total or women ........................................................................ | -. 000122355 | 2861.72 |
| Men or both sexes, 16 to 19 years .................................................. | -. 019110769 | 5876.77 |
| Hispanic origin: |  |  |
| Total or women .......................................................................... | . 002872129 | 4640.81 |
| Men or both sexes, 16 to 19 years ................................................... | . 002884390 | 4028.10 |
| Self-employed ............................................................................. | -. 000245791 | 2091.57 |
| Unemployment: ${ }^{2}$ |  |  |
| Total or white: |  |  |
| Total, men, women .................................................................. Both sexes, 16 to 19 years and low correlation characteristics ........ | -.000093662 -.000071624 | 4191.84 5121.75 |
| Both sexes, 16 to 19 years and low correlation characteristics ......... | -. 000071624 | 5121.75 |
| Black: <br> Total, men, women, and both sexes, 16 to 19 years $\qquad$ <br> High correlation characteristics $\qquad$ | $\begin{array}{r} -.000414217 \\ .000048170 \end{array}$ | $\begin{aligned} & 4361.16 \\ & 3088.91 \end{aligned}$ |
| Hispanic origin: |  |  |
| Total, men, wornen .................................................................... | -. 000252897 | 5054.25 |
| Both sexes, 16 to 19 years and low correlation characteristics .......... | -. 000996431 | 7037.75 |

${ }^{1}$ High correlation characteristics include employed full-time, manufacturing, service workers, and not in the labor force. Low correlation characteristics include all part-time workers; employed, with a job, but not at work; unpaid family workers; and precision production, craft, and repair occupations.
${ }^{2}$ High correlation characteristics include full-time jobseekers; job losers; manufacturing workers; and operators, fabricators, and laborers. Low correlation characteristics include part-time jobseekers, reentrants, persons unemployed for less than 5 weeks and from 5 to 14 weeks.

The average of the 2 quarters is $11,400,000$.
Step 2. Obtain the a and $b$ parameters as above and use the formula for $s_{x}$ to compute an approximate standard error for the estimate of $11,400,000$, treating it as an estimate for a single month.
$S_{X}=\sqrt{(-0.000125300)(11,400,000)^{2}+(3139.26)(11,400,000)}=140,000$
Step 3. Multiply this result by the factor 84 from table

1-H (column labeled "Change in quarterly averages" and row labeled "Labor force and not-in-labor-force data other than agricultural employment and unemployment, Black"). This gives an approximate standard error of 118,000 on the estimated change of 400,000 from one quarter to the next.

The estimated change clearly exceeds 2 standard errors; therefore, one could conclude from these data that the change in quarterly averages is significant.

Table 1-H. Factors to be used with tables 1-B, 1-C, 1-D, and 1-F 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 .................................. | 1.30 | 0.92 | 0.70 | 0.79 | 0.70 |
| Women ....................................... | 1.30 | . 82 | . 84 | . 57 | . 70 |
| Both sexes, 16 to 19 years ............... | 1.30 | . 78 | . 88 | . 49 | . 70 |
| Part time ...................................... | 1.40 | . 80 | . 80 | . 59 | . 70 |
| Unemployment: |  |  |  |  |  |
| Total ........................................... | 1.40 | . 74 | . 88 | . 46 | . 65 |
| Part time ...................................... | 1.40 | . 67 | . 88 | . 42 | . 54 |
| Labor force and not-in-labor-force data other than agricultural employment and unemployment: |  |  |  |  |  |
| Total or white ................................. | 1.30 | . 87 | . 85 | . 65 | . 70 |
| Black .......................................... | 1.30 | . 87 | . 84 | . 65 | . 70 |
| Hispanic origin .............................. | 1.30 | . 87 | . 80 | . 65 | . 70 |
| Both sexes, 16 to 19 years ............... | 1.30 | . 79 | . 88 | . 54 | . 70 |
| Part time ...................................... | 1.40 | . 82 | . 90 | . 51 | . 60 |

## Establishment Data ("B" tables)

## COLLECTION

BLS cooperates with State employment security agencies in the Current Employment Statistics (CES) or establishment survey to collect data each month on employment, hours, and earnings from a sample of nonfarm establishments (including government). This sample includes about 390,000 reporting units. From these data, a large number of employment, hours, and earnings series in considerable industry and geographic detail are prepared and published each month. Historical statistics are available on the Internet at: http:\lstats.bls.gov

Each month, the State agencies collect data on employment, payrolls, and paid hours from a sample of establishments. Data are collected by mail from most respondents; phone collection is used to obtain higher response rates from selected respondents through computer-assisted interviews, touch-tone self-response, and voice recognition technology.

The respondents extract the requested data from their payroll records, which must be maintained for a variety of tax and accounting purposes. All firms with 250 employees or more are asked to participate in the survey, as well as a sample of smaller firms.

A "shuttle" schedule (BLS form 790 series) is used for mail respondents. It is submitted each month by the respondents, edited by the State agency, and returned to the respondent for use again the following month.

The technical characteristics of the shuttle schedule are particularly important in maintaining continuity and consistency in reporting from month to month. The shuttle design automatically exhibits the trends of the reported data covered by the schedule during the year; therefore, the relationship of the current data to the data for the previous months is shown. The schedule also has operational advantages. For example, accuracy and economy are achieved by entering the identification codes and the address of the reporter only once a year.

All schedules are edited by the State agencies each month to make sure that the data are correctly reported and that they are consistent with the data reported by the establishment in earlier months and with the data reported by other establishments in the industry. The State agencies forward the data, either on the schedules themselves or in machine-readable form, to BLS-Washington. They also use the information provided on the forms to develop State and area estimates of employment, hours, and earnings. At BLS, the data are edited again by computer to detect processing and reporting errors which may have been missed in the initial State editing; the edited data are used to prepare national estimates.

It should be noted that for employment, the sum of the State figures will differ from the official U.S. national totals because of the effects of differing industrial and geo-
graphic stratification and differences in the timing of benchmark adjustments.

## 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 Nation (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 Manual (SIC), Office of Management and Budget.

## Industry employment

Employment data, except those for the Federal Government, refer to persons on establishment payrolls who received pay for any part of the pay period which includes the 12th day 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-6). 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 (3-digit industries) covering all nonfarm payroll employment in the private sector. The manufacturing diffusion indexes are based on 139 3-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 ser-vice-producing industries.

Production and related workers. This category includes 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. This group includes 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. These are 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. This refers to 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 day 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. Employee benefits (such as health and other types of insurance, contributions to retirement, etc., paid by the employer) are also excluded.

Hours. These are the hours paid for during the pay period which includes the 12 th 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. These are 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 12 th 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 fig-
ures 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.

Because 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 lumpsum 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 plus Amtrak (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. 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. These earnings are in constant dollars and 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 (CPIW). The reference year for these series is 1982.

## ESTIMATING METHODS

The Current Employment Statistics (CES) or establishment survey estimates of employment are generated through an annual benchmark and monthly sample link procedure. Annual universe counts or benchmark levels are generated primarily from administrative records on employees covered by unemployment insurance (UI) tax laws. These annual benchmarks, established for March of each year, are projected forward for each subsequent month based on the trend of the sample employment, using an estimation procedure called the link relative. Benchmarks and sample link relatives are computed for each of 1,698 basic estimation cells defined by industry, size, and geography for the CES national estimates, and summed to create aggregate level employment estimates.

## Benchmarks

The establishment survey constructs annual benchmarks in order to realign the sample-based employment totals for March of each year with the UI-based population counts for March. These population counts are much less timely than sample-based estimates; however, they provide an annual point-in-time census for employment.

Population counts are derived from the administrative file of employees covered by UI. All employers covered by UI laws are required to report employment and wage information to the appropriate State employment security agency four times a year. Approximately 98 percent of in-scope private employment is covered by UI. A benchmark for the remaining 2 percent is constructed from alternate sources, primarily records from the Interstate Commerce Commission and the Social Security Administration. The full benchmark developed for March replaces the March sample-based estimate for each basic cell. The monthly sample-based estimates for the year preceding and the year following the benchmark are also then subject to revision.

Monthly estimates for the year preceding the March benchmark are readjusted using a "wedge back" procedure. The difference between the final benchmark level and the previously published March sample estimate is calculated and spread back across the previous 11 months. The wedge is linear; eleven-twelfths of the March difference is added to the February estimates, ten-twelfths to the January estimates, and so on, back to the previous April estimates which receive one-twelfth of the March difference. This assumes that the total estimation error since the last benchmark accumulated at a steady rate throughout the current benchmark year.

Estimates for the Il months following the March benchmark are also recalculated each year. These post-benchmark estimates reflect the application of sample-based monthly changes to new benchmark levels for March, and the recomputation of bias adjustment factors for each month. Bias factors are updated to take into account the most recent experience of the estimates generated by the monthly
sample versus the full universe counts derived from the UI.
Following the revision of basic employment estimates, all other derivative series (e.g., production workers, average hourly earnings) are also recalculated. New seasonal adjustment factors are calculated and all data series, usually for the previous 5 years, are reseasonally adjusted, prior to full publication of all revised data in June of each year.

## Monthly estimation

Estimates are derived from a sample of approximately 390,000 business establishments nationwide. A current month's estimate is derived as the product of the previous month's estimate and a sample link relative for the current month. A bias adjustment factor is then applied to this result primarily to help account for new business births during the month.

Stratification. The sample is stratified into 1,698 basic estimation cells for purposes of computing national employment, hours, and earnings estimates. Cells are defined primarily by detailed industry, and secondarily by size for a majority of cells. In a few industries, mostly within the construction division, geographic stratification is also used. Industry classification is in accordance with the 1987 Standard Industrial Classification Manual (SIC); most estimation cells are defined at the 4-digit SIC level.

This detailed stratification pattern allows for the production and publication of estimates in considerable industry detail. Sub-industry stratification by size is important because major statistics which the survey measures, particularly employment change and average earnings, often vary significantly between establishments of different size. Stratification reduces the variance of the published industry level estimates.

Link relative technique. A ratio of the previous to the current month's employment is computed from a sample of establishments reporting for both months-this ratio is called a "link relative." For each basic cell, a link relative is computed and applied to the previous month's employment estimate to derive the current month's estimate. Thus a March benchmark is moved forward to the next March benchmark through application of monthly link relatives. Basic cell estimates created through the link relative technique are aggregated to form published industry level estimates, for employment, as described in table 2-A. Basic estimation and aggregation methods for the hours and earnings data are also shown in table 2-A.

Bias adjustment. Bias adjustment factors are computed at the 3-digit SIC level, and applied each month at the basic cell level, as part of the standard estimation procedures. The main purpose of bias adjustment is to reduce a primary source of nonsampling error in the survey, the inability to capture, on a timely basis, employment generated by new firm births. There is a several month lag between an

Table 2-A. 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 $\qquad$ | 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 $\qquad$ | 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. |

'The estimates are computed by multiplying the above product by bias adjustments 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 earn-
ings 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.
establishment opening for business and its appearing on the UI universe frame and being available for sampling. Because new firms generate a portion of employment growth each month of the year, nonsampling methods must be used to capture this growth, otherwise substantial under estimation of total employment levels would occur. Formal bias adjustment procedures have been used by the establishment survey since the late 1960's. Prior to the 1983 benchmark, bias adjustments were derived from a simple mean error model, which averaged undercount errors for the previous 3 years to arrive at bias projections for the coming year. The undercount errors were measured as the difference between sample-based estimate results and benchmark levels.

This procedure eventually proved inadequate during periods of rapidly changing employment trends, and the bias adjustment methodology was revised. Research done in the early 1980's indicated that bias requirements were strongly correlated with current employment growth or decline. Based on this research, a revised method was developed which incorporated the sample data on employment growth over the most recent two quarters, and a regression-derived coefficient for the significance of that change, to adjust the mean error model results. This change in methodology provided a more cyclically sensitive bias model. The regres-sion-adjusted mean error model has been in use since 1983, for the production of national estimates.

The current model still has limitations in its ability to react to changing economic conditions or changing error structure relationships between the sample-based estimates and the UI universe counts. A principal limitation is the inability to incorporate UI universe counts as they become available on an ongoing basis, with a 6- to 9 -month lag from the reference period. Thus, the current quarterly outputs from the model are subject to intervention analysis, and adjustments can be made to its results, prior to the establishment of final bias levels for a quarter. Review is done primarily in terms of detection of outlier (i.e. abnormally high or low) values, and by comparison of CES sample and bias trends with the most recent quarterly observations of UI universe counts. The BLS currently has under study improved bias models utilizing a Kalman filter technique, which would allow a more formal, structured incorporation of each quarter's UI universe counts in the bias modeling process.

Although the primary function of bias adjustment is to account for employment resulting from new business formations, it also adjusts for other elements of nonsampling error in the survey, because the primary input to the modeling procedure is total estimation error. Significant among these nonsampling error sources is a business death bias. When a sampled firm closes down, most often it simply does not respond to the survey that month, rather than reporting zero employment. Followup with nonrespondents may reveal an out-of-business firm, but this information is often received too late to incorporate into monthly esti-
mates, and the firm is simply treated as a nonrespondent for that month.

Because the bias adjustments incorporated into the estimates represent a composite of a birth bias, death bias, and a number of other differences between the sample-based estimates and the population counts, the monthly bias adjustment levels have no specific economic meaning in and of themselves.

Table 2-B summarizes bias adjustments for the 1987-97 period. The table displays the average monthly "bias added" and the average monthly "bias required" with the benchmark revisions for each year. Bias added shows the average amount of bias which was added each month over the course of an interbenchmark period. For example, the bias added for 1997 is listed as 130,000 ; this represents the average of bias adjustments made each month over the period April 1996 through March 1997. Bias required is computed retrospectively, after the March benchmark for a given year is known. Bias required figures are calculated by taking the difference between a March estimate derived purely from the sample (i.e. a series calculated without bias adjustment) and the March benchmark. Dividing this figure by 12 gives the average monthly bias required figure. The bias required is thus defined as the amount of bias adjustment which would have achieved a zero benchmark error. The difference between the total bias required and the total bias added is then, by definition, approximately the benchmark revision amount, for any given year. Also provided in the table for illustration, are the March-to-March changes. As discussed above, the over-the-year changes indicate correlation with the bias added and bias required figures.

## THE SAMPLE

## Design

The emphasis in the establishment survey is on producing timely data at minimum cost. Therefore, the primary goal of its design is to sample a sufficiently large segment of the universe to provide reliable estimates that can be published both promptly and regularly. The present sample allows BLS to produce preliminary total nonfarm employment estimates for each month, including some limited industry detail, within 3 weeks after the reference period, and data in considerably more detail with an additional 1month lag.

The CES survey, which began over 50 years age, predates the introduction of probability sampling methods and has operated as a quota sample since its inception.

The sampling plan used is a form of sampling with probability proportionate to size, known as "sampling proportionate to average size of establishment". This is an optimum allocation design among strata because sampling variance is proportional to the average size of establishments. The universe of establishment employment is highly skewed, with a large percentage of total employment concentrated in relatively few establishments. Because vari-
ance on a population total estimate is a function of percentage universe coverage achieved by the sample, it is efficient to sample larger establishments at a higher rate than smaller establishments, assuming the cost per sample unit is fairly constant across size classes.

Under the survey design, large establishments fall into a certainty strata for sample selection. The size of the sample for the various industries is determined empirically on the basis of experience and cost considerations. For example, in a manufacturing industry with a high proportion of total employment concentrated in a small number of establishments, a larger percent of total employment is included in the sample. Consequently, the sample design for such industries provides for a complete census of the large establishments, with a relatively few chosen from among the smaller establishments. For an industry in which a large proportion of total employment is concentrated in small establishments, the sample design again calls for inclusion of all large establishments but also for a more substantial number of smaller 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 have a sample design for these industries with a smaller proportion of total universe coverage than is the case for most manufacturing industries.

## Coverage

The establishment survey is the largest monthly sampling operation in the field of social statistics. Table 2-C shows the latest benchmark employment levels and the approximate proportion of total universe employment coverage, at the total nonfarm and major industry division levels. The coverage for individual industries within the divisions may vary from the proportions shown.

## Reliability

The establishment survey, like other sample surveys, is subject to two types of error, sampling and nonsampling error. The magnitude of sampling error, or variance, is directly related to the size of the sample and the percentage of universe coverage achieved by the sample. The establishment survey sample covers over one-third of total universe employment; this yields a very small variance on the total nonfarm estimates. Measurements of error associated with sample estimates are provided in tables 2-D through 2-G.

Benchmark revision as a measure of survey error. The sum of sampling and nonsampling error can be considered total survey error. Unlike most sample surveys which publish sampling error as their only measure of error, the CES can derive an annual approximation of total error, on a lagged basis, because of the availability of the independently derived universe data. While the benchmark error is used as a measure of total error for the CES survey estimate, technically, it actually represents the difference between two independent estimates derived from separate survey processes (i.e., the CES sample process and the UI universe process) and thus reflects the errors present in each program. Historically, the benchmark revision has been very small for total nonfarm employment. Over the past decade, percentage benchmark error has averaged 0.3 percent, with a range from zero to 0.7 percent. Table 2-D shows the most current benchmark revisions, along with 10 -year mean revisions and mean absolute revisions for major industries. Mean revisions give an indication of bias in the estimates; unbiased estimates have a mean revision close to zero, as over and under estimations cancel out over time. Mean absolute revisions give an overall indicator as to the accuracy of the

Table 2-B. March employment benchmarks and bias adjustments for total private industries, March 1987-97
(in thousands)

| Year | Benchmark |  | Average monthly bias |  | Over-the-year employment change ${ }^{5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Employment ${ }^{1}$ | Revision ${ }^{2}$ | Added ${ }^{3}$ | Required ${ }^{4}$ |  |
| 1987 | 83,173 | 21 | 98 | 99 | 1,969 |
| 1988 ............................................. | 86,180 | -310 | 114 | 88 | 3,007 |
| 1989 ............................................. | 89,015 | -93 | 131 | 123 | 2,835 |
| 1990 ............................................. | 90,546 | -261 | 85 | 63 | 1,531 |
| 1991 ............................................. | 88,790 | -583 | 61 | 12 | -1,756 |
| 1992 ............................................ | 88,347 | -130 | 33 | 22 | -443 |
| 1993 ............................................. | 89,790 | 288 | 83 | 107 | 1,443 |
| 1994 ............................................ | 92,730 | 688 | 115 | 171 | 2,940 |
| 1995 ............................................. | 96,175 | 511 | 144 | 187 | 3,445 |
| 1996 ............................................. | 98,158 | 72 | 129 | 135 | 1,983 |
| 1997 ............................................. | 101,040 | 518 | 130 | 173 | 2,882 |

[^24][^25]estimates; the larger the value, the further the estimate was from the final benchmark level.

Estimated standard errors for employment, hours, and earnings. The hours and earnings estimates for the basic estimating cells do not have universe data sources available and therefore are not subject to benchmark revisions, although the broader groupings may be affected slightly by changes in employment weights. Like the employment estimates, the hours and earnings estimates are also subject to sampling and nonsampling errors. Estimates of the sampling error for employment, hours, and earnings were computed using the method of random groups and are expressed as relative standard errors (standard error divided by the estimate). Relative standard errors for individual industries with the specified number of employees are presented in table 2-E and for major industries in table 2-F. Multiplying the relative standard error by its estimated value gives the estimate of the standard error. The errors presented here are based on averages observed from sample data over the March 1994 through March 1995 period.

## Standard errors for differences between industries and times.

 The standard error of a difference is required to test for significant differences between estimates from two different industries. Since the estimates for the two industries are independent, the standard error of a difference is the square root of the sum of the estimated variance of each estimate, $\mathrm{S}_{1}{ }^{2}$ and $\mathrm{S}_{2}{ }^{2}$.$$
S \text { difference }=\sqrt{s_{1}^{2}+s_{2}^{2}}
$$

The CES sample overlaps almost entirely from month to month, so monthly estimates are not independent. The covariance between these estimates must be accounted for when testing the significance of the change in estimates over time. The standard error of the change can be estimated as follows.

$$
\begin{aligned}
& S \text { change }=\sqrt{s_{1}^{2}+s_{2}^{2}-2 p s_{1} s_{2}} \\
& \text { If } S_{1}=S_{2} \text {, then: } \\
& S \text { change }=\sqrt{2 s_{1}^{2}(1-p)}
\end{aligned}
$$

Conservative estimates of $p$ after one month are 0.8 for employment, 0.6 for average weekly hours, and 0.8 for average hourly earnings.

If the bias is small, then the standard error can be used to construct approximate confidence intervals or range of values that include the true population value. If the process
of selecting a sample from the population were repeated many times and an estimate and its standard error calculated for each sample, then approximately 68 percent of the intervals from one standard error below the estimate to one standard error above the estimate would include the true population value.

Noneconomic code changes. A major source of benchmark revision at the major industry division level and below are noneconomic code changes, which are introduced into the universe data in the first quarter of each calendar year.

Approximately one-third of all establishments in the universe are included in the universe program's annual Standard Industrial Classification (SIC) refiling survey. Corrections to individual establishments' SIC and ownership codes are made through this process. The refiling cycle is such that every third year entire division(s) are subject to refiling. The volume of these adjustments is generally quite large and has a substantial impact on universe employment counts at the industry levels, although the total nonfarm employment level remains unaffected. For example, in a year when the services division is refiled, a substantial

Table 2-C. Employment benchmarks and approximate coverage of BLS employment and payrolls sample, March 1997

| Industry | Benchmarks (thousands) | Sample coverage ${ }^{1}$ |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Number of establishments | Employees |  |
|  |  |  | Number (thousands) | Percent of benchmarks |
| Total ............ | 120,903 | 316,992 | 44,036 | 36 |
| Mining................. | 580 | 3,057 | 225 | 39 |
| Construction ....... | 5,260 | 25,915 | 1,010 | 19 |
| Manufacturing ..... | 18,519 | 56,104 | 8,654 | 47 |
| Transportation and public utilities ..... | 6,331 | ${ }^{2} 16,398$ | 2,263 | 36 |
| Wholesale trade .. | 6,567 | 25,215 | 1,148 | 17 |
| Retail trade .......... | 21,467 | 60,605 | 5,086 | 24 |
| Finance, insurance, and real estate ... | 6,988 | 21,824 | 2,005 | 29 |
| Services ............ | 35,328 | 75,482 | 8,333 | 24 |
| Government: |  |  |  |  |
| Federal ............ | 2,700 4,692 | 35,145 6,880 | 2,700 | 100 |
| State ................ | 4,692 12,471 | 6,880 20,367 | 3,848 8,764 | 82 70 |

${ }^{\text {' }}$ Counts reflect reports used in final estimates. Because 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 plus Amtrak. 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 reports covering about 51 percent of employment in Federal establishments.

Table 2-D. Current (March 1997) and historical benchmark revisions
(Numbers in thousands)

| Industry | March 1997 benchmark revision |  | 10-year average mean percent revision |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Level | Percent | Actual | Absolute |
| Total | 431 | 0.4 | 0.1 | 0.3 |
| Total private ..................................................... | 518 | . 5 | . 1 | . 4 |
| Goods-producing ........................................................ | 196 | . 8 | . 1 | . 8 |
| Mining ............................................................. | 18 | 3.1 | -. 6 | 1.7 |
| Metal mining ......................................................... | -1 | -1.9 | -1.7 | 3.3 |
| Coal mining ....................................................... | 4 | 4.2 | -1.0 | 2.6 |
| Oil and gas extraction ........................................... | 14 | 4.3 | -. 4 | 2.4 |
| Nonmetallic minerals, except fuels ......................... | 0 | 0 | -. 4 | 1.6 |
| Construction ........................................................... | 56 | 1.1 | -. 4 | 1.3 |
| General building contractors ................................... | 10 | . 8 | -. 6 | 2.3 |
| Heavy construction, except building ........................ | 24 | 3.4 | . 6 | 2.1 |
| Special trade contractors ...................................... | 22 | . 7 | -. 6 | 1.2 |
| Manufacturing ............................................................... | 122 | . 7 | . 2 | 7 |
| Durable goods ....................................................... | 73 | . 7 | . 3 | . 8 |
| Lumber and wood products .................................. | -4 | -. 5 | . 2 | 1.7 |
| Furniture and fixtures ........................................ | 2 | . 4 | .3 | 1.1 |
| Stone, clay, and glass products ........................... | 10 | 1.9 | . 5 | . 9 |
| Primary metal industries ..................................... | 0 | 0 | -. 1 | .8 1 |
| Blast furnaces and basic steel products .............. | -1 | -. 4 | . 6 | 1.2 |
| Fabricated metal products .................................. | 3 | . 2 | ${ }^{2}$ | .7 1.7 |
| Industrial machinery and equipment ..................... | 9 | . 4 | $\left.{ }^{2}\right)$ | 1.2 |
| Computer and office equipment ......................... | -4 | -1.1 | -. 6 | 2.0 |
| Electronic and other electrical equipment ............... | 30 | 1.8 | -. 2 | .9 1.9 |
| Electronic components and accessories ............. | 22 | 3.5 | . 1 | 1.9 |
| Transportation equipment ................................... | 14 | . 8 | . 9 | 1.0 |
| Motor vehicles and equipment ........................... | 14 | 1.4 | 1.3 | 1.3 |
| Aircraft and parts ............................................ | -5 | -1.0 | . 8 | 1.4 |
| Instruments and related products ......................... | 6 | . 7 | . 3 | 1.9 |
| Miscellaneous manufacturing .............................. | 3 | . 8 | . 3 | 1.4 |
| Nondurable goods ................................................ | 49 | . 6 | . 2 | . 7 |
| Food and kindred products .................................. | -2 | -. 1 | . 2 | . 9 |
| Tobacco products .............................................. | 0 | 0 | . 4 | 4.0 |
| Textile mill products ........................................... | 8 | 1.3 | . 1 | . 9 |
| Apparel and other textile products ........................ | 12 | 1.4 | . 3 | 1.3 |
| Paper and allied products ................................... | 9 | 1.3 | . 5 | . 7 |
| Printing and publishing ...................................... | 9 | . 6 | -. 2 | . 8 |
| Chemicals and allied products ............................. | 6 | . 6 | ${ }^{(2)}$ | .9 17 |
| Petroleum and coal products ............................... | 0 | 0 | -. 5 | 1.7 |
| Rubber and miscellaneous plastics products ......... | 6 | . 6 | . 5 | 1.5 |
| Leather and leather products ................................ | 0 | 0 | -. 1 | 2.1 |
| Service-producing ...................................................... | 235 | . 2 | . 1 | . 3 |
| Transportation and public utilities ................................ | -22 | -. 3 | -. 3 | 1 |
| Transportation ................................................... | -61 | -1.5 | -. 6 | 1.4 |
| Railroad transportation ....................................... | -1 | -. 4 | -1.1 | 1.1 |
| Local and interurban passenger transit .................. | -7 | -1.5 | -. 5 | 2.1 |
| Trucking and warehousing .................................. | -13 | -. 8 | -1.7 | 2.9 |
| Water transportation .......................................... | 3 | 1.7 | . 4 | 3.5 |
| Transportation by air .......................................... | -46 | -4.1 | 2.0 | 5.3 |
| Pipelines, except natural gas ................................ | 0 | 0 | . 6 | 5.2 |
| Transportation services ...................................... | 2 | . 5 | -1.3 | 3.0 |
| Communications and public utilities ......................... | 39 | 1.7 | . 1 | 1.2 |
| Communications ................................................ | 42 | 3.0 | . 2 | 1.9 |
| Electric, gas, and sanitary services ...................... | -3 | -. 3 | -. 1 | . 7 |
| Wholesale trade ...................................................... | -4 | -. 1 | -. 5 | 1.2 |
| Durable goods ..................................................... | 5 | 1 | -. 5 | 1.5 |
| Nondurable goods ............................................... | -9 | -. 3 | -. 5 | 1.0 |

See footnotes at end of table.

Table 2-D. Current (March 1997) and historical benchmark revisions-Continued
(Numbers in thousands)

| Industry | March 1997 benchmark revision |  | 10-year average mean percent revision ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Level | Percent | Actual | Absolute |
| Retail trade ........................................................... | -27 | -. 1 | . 4 | 6 |
| Building materials and garden supplies ................... | 6 | . 7 | . 1 | 1.5 |
| General merchandise stores ................................ | -76 | -2.9 | 1.8 | 2.9 |
| Department stores ........................................... | -65 | -2.8 | 2.4 | 3.7 |
| Food stores .............................................................................. | 2 | . 1 | -. 2 | . 7 |
| Automotive dealers and service stations .................. | -9 | -. 4 | -1.1 | 1.1 |
| New and used car dealers ................................. | -6 | -. 6 | -. 7 | 1.0 |
| Apparel and accessory stores............................... | -7 | -. 7 | 1.1 | 1.6 |
| Furniture and home furnishings stores .................... | -32 | -3.3 | -. 7 | 1.4 |
| Eating and drinking places ................................... | 118 | 1.6 | . 8 | 1.2 |
| Miscellaneous retail establishments ........................ | -27 | -1.0 | . 1 | . 9 |
| Finance, insurance, and real estate ............................ | 37 | . 5 | -. 3 | 1.2 |
| Finance .......................................................... | 9 | . 3 | $-7$ | 1.3 |
| Depository institutions ...................................... | -15 | -. 7 | -1.1 | 1.4 |
| Commercial banks ....................................................... | -24 | -1.7 | -6 | . 9 |
| Savings institutions ${ }^{3}$ | 8 | 3.1 | -3.6 | 6.1 |
| Nondepository institutions ................................. | 20 | 3.6 | 1.2 | 2.5 |
| Mortgage bankers and brokers .......................... | 6 | 2.4 | 1.1 | 5.0 |
| Security and commodity brokers $\qquad$ Solding and other investment offices | 4 1 | . 7 | .1 -3.7 | 1.2 5.0 |
| Insurance ............................................................ | 27 | 1.2 | . 4 | 1.3 |
| Insurance carriers ............................................ | 23 | 1.5 | . 3 | 1.6 |
| Insurance agents, brokers, and service ................. | 4 | . 6 | . 5 | 1.2 |
| Real estate .................................................... | 1 | . 1 | -. 4 | 1.5 |
| Services ${ }^{4}$............................................................ | 338 | 1.0 | . 2 | . 6 |
| Agricultural services ........................................... | 8 | 1.4 | 2.0 | 2.2 |
| Hotels and other lodging places ............................. | -4 | -2 | . 5 | 1.3 |
| Personal services .............................................. | -13 | -1.0 | . 7 | 1.5 |
| Business services ............................................. | 218 | 2.8 3.4 | .7 1.3 | 2.0 |
| Services to buildings ........................................ | 31 118 | 3.4 4.2 | 1.3 1.7 | 1.7 3.8 |
| Personnel supply services $\qquad$ Help supply services ${ }^{3}$ $\qquad$ | 118 130 | 4.2 5.2 | 1.7 2.0 | 3.8 3.1 |
| Computer and data processing services ......................................... | 64 | 4.7 | $\left(^{2}\right)$ | 3.3 |
| Auto repair, services, and parking .......................... | -12 | -1.1 | -1.2 | 1.5 |
| Miscellaneous repair services ............................... | -9 | -2.4 | -. 8 | 4.8 |
| Motion pictures .................................................. | 7 | 1.3 | -1.8 | 4.0 |
| Amusement and recreation services ........................ | 33 | 2.3 | . 8 | 2.8 |
| Health services ................................................. | 29 | . 3 | -. 7 | 8 |
| Offices and clinics of medical doctors ................... | -1 | -. 1 | -. 9 | 1.6 |
| Nursing and personal care facilities ....................... | -5 | - 3 | -. 6 | . 8 |
| Hospitals $\qquad$ Home health care services ${ }^{3}$ | -6 29 | -2 4.1 | -8 | .8 2.8 |
| Legal services ............................................................... | -8 | - 9 | -. 5 | 1.2 |
| Educational services ........................................... | 31 | 1.4 | 1.2 | 2.8 |
| Social services .................................................. | 31 | 1.2 | -. 3 | 1.6 |
| Child day care services ..................................... | -15 | -2.6 | -2.8 | 4.8 |
| Residential care ............................................... | 16 | 2.3 | . 1 | 1.6 |
| Museums and botanical and zoological gardens ....... | $\begin{array}{r}3 \\ 5 \\ \hline\end{array}$ | 3.6 2.4 | 1.9 2.6 | 2.5 |
| Membership organizations ................................... | 53 -7 | 2.4 -.2 | 2.6 .1 | 1.3 1.4 |
| Engineering and architectural services .................. | -9 | -1.1 | -. 8 | 1.3 |
| Management and public relations ${ }^{3}$....................... | -12 | -1.3 | . 9 | 3.3 |
| Services, nec .................................................... | 0 | 0 | 3 | . 7 |
| Government .......................................................... | -87 | -. 4 | ${ }^{(2)}$ | . 2 |
| Federal ........................................................... | 0 | 0 | 0 | 0 |
| Federal, except Postal Service ............................ | 0 | 0 | 0 | 0 |
| State ............................................................... | -56 | -1.2 | . 2 | . 6 |
| Education ...................................................... | -41 | -2.0 | . 3 | 1.2 |
| Other State government .................................... | -15 | -. 6 | ${ }^{2}$ | . 5 |
| Local .............................................................. | -31 1 | -. 0 | - -1 | . 3 |
| Education ........................................................................ | -33 | -. 6 | 0 | . 4 |

[^26]${ }^{3}$ Data relate to 1989-97.
${ }^{4}$ Includes other industries, not shown separately.

Table 2-E. Relative standard errors ${ }^{1}$ for estimates of employment, hours, and earnings
(In percent)

| Size of employment estimate | Employment | Average weekly hours | Average hourly earnings |
| :---: | :---: | :---: | :---: |
| 50,000 ......................... | 1.4 | 1.9 | 3.2 |
| 100,000 | 1.1 | 1.5 | 2.6 |
| 200,000 | . 8 | 1.2 | 2.2 |
| 500,000 ........................ | . 6 | . 9 | 1.7 |
| 1,000,000 ...................... | . 4 | . 7 | 1.3 |
| 2,000,000 ...................... | . 3 | . 6 | 1.1 |

'Relative errors were estimated with sample data from March 1994-March 1995.

Table 2-F. Relative standard errors ${ }^{1}$ for estimates of employment, hours, and earnings by industry
(In percent)

| Industry | Employment | Average weekly hours | Average hourly earnings |
| :---: | :---: | :---: | :---: |
| Total private ............ | 0.1 | 0.1 | 0.2 |
| Mining........................... | . 8 | . 6 | 1.1 |
| Construction .................. | . 4 | . 1 | . 3 |
| Manufacturing ............... | . 1 | . 1 | . 4 |
| Durable goods ............ | . 1 | . 1 | . 5 |
| Nondurable goods ....... | . 1 | . 1 | . 5 |
| Transportation and public utilities $\qquad$ | . 3 | . 5 | 1.0 |
| Wholesale trade ............. | . 2 | . 2 | . 4 |
| Retail trade .................... | . 1 | . 1 | . 3 |
| Finance, insurance, and real estate | . 2 | . 2 | . 7 |
| Services ....................... | . 2 | . 2 | . 4 |

'Relative errors were estimated with sample data from March 1994-March 1995.
amount of employment is usually reclassified out of services to other major divisions, thus, lowering the benchmark level for services, and potentially causing a significant downward revision in the services employment totals previously published.

Revisions between preliminary and final data. First preliminary estimates of employment, hours, and earnings, based on less than the total sample, are published immediately following the reference month. Final revised sample-
based estimates are published 2 months later when nearly all the reports in the sample have been received. Table 2-G presents the root-mean-square error, the mean percent, and the mean absolute percent revision that may be expected between the preliminary and final employment estimates.

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, at the total private nonfarm level, and may be slightly larger for the more detailed industry groupings.

## STATISTICS FOR STATES AND AREAS

## (Tables B-7, B-14, and B-18)

As explained earlier, State agencies in cooperation with BLS collect and prepare State and area employment, hours, and earnings data. These statistics are based on the same establishment reports used by BLS, however, BLS uses the full CES sample to produce monthly national employment estimates, while each State agency uses its portion of the sample to independently develop a State employment estimate.

The CES area statistics relate to metropolitan areas. Definitions for all areas are published each year in the issue of Employment and Earnings that contains State and area annual averages (usually the May issue). Changes in definitions are noted as they occur. Additional industry detail may be obtained from the State agencies listed on the in side back cover of each issue.

Caution in aggregating State data. The national estimation procedures used by BLS are designed to produce accurate national data by detailed industry; correspondingly the State estimation procedures are designed to produce accurate data for each individual State. State estimates are not forced to sum to national totals nor vice versa. Because each State series is subject to larger sampling and nonsampling errors than the national series, summing them cumulates individual State level errors and can cause distortions at an aggregate level. This has been a particular problem at turning points in the U.S. economy, when the majority of the individual State errors tend to be in the same direction. Due to these statistical limitations, the Bureau does not compile or publish a "sum-of-States" employment series. Additionally, BLS cautions users that such a series is subject to a relatively large and volatile error structure, particularly at turning points.

Table 2-G. Errors of preliminary employment estimates

| Industry | Root-mean-square error of monthly level ${ }^{1}$ | Mean percent revision |  |
| :---: | :---: | :---: | :---: |
|  |  | Actual | Absolute |
| Total ................................................................ | 57,900 | 0 | 0 |
| Total private .................................................... | 49,000 | 0 | 0 |
| Goods-producing ...................................................... | 13,200 | 0 | 0 |
| Mining .................................................................. | 1,800 | 0 | . 2 |
| Metal mining ...................................................... | 300 | -. 1 | 4 |
| Coal mining ....................................................... | 800 | . 1 | . 6 |
| Oil and gas extraction .......................................... | 1,800 | 0 | 4 |
| Nonmetallic minerals, except fuels .......................... | 300 | 0 | . 2 |
| Construction .......................................................... | 8,000 | . 1 | . 1 |
| General building contractors .................................. | 4,000 | . 1 | 3 |
| Heavy construction, except building .......................... | 3,500 | 0 | . 4 |
| Special trade contractors ........................................ | 4,800 | . 1 | . 1 |
| Manutacturing ......................................................... | 9,000 | 0 | 0 |
| Durable goods ..................................................... | 6,400 | 0 | 0 |
| Lumber and wood products ................................. | 1,300 | . 1 | . 1 |
| Furniture and fixtures ........................................ | 1,200 | 0 | . 2 |
| Stone, clay, and glass products ............................ | 1,100 1,700 | 0 | . 2 |
| Primary metal industries ..................................... Blast furnaces and basic steel products ........... | 1,700 1,400 | 0 | . 2 |
| Fabricated metal products .................................... | 2,000 | 0 | . 1 |
| Industrial machinery and equipment ....................... | 2,500 | 0 | . 1 |
| Computer and office equipment ......................... | 1,500 | 2 | . 3 |
| Electronic and other electrical equipment ............... | 2,400 | 0 | . 1 |
| Electronic components and accessories .............. | 1,400 | 0 | . 2 |
| Transportation equipment ................................... | 4,200 | 0 | . 2 |
| Motor vehicles and equipment ........................... | 3,700 | . 1 | .3 |
| Aircraft and parts ............................................ | 1,600 | 0 | . 2 |
| instruments and related products .......................... | 1,600 | 0 | . 1 |
| Miscellaneous manufacturing .............................. | 1,100 | . 1 | . 2 |
| Nondurable goods ............................................... | 4,700 | 0 | 1 |
| Food and kindred products .................................. | 2,800 | -. 1 | 1 |
| Tobacco products ............................................ | 500 | . 5 | 9 |
| Textile mill products ........................................... | 1,100 | 0 | 1 |
| Apparel and other textile products ........................ | 2,500 | . 1 | 2 |
| Paper and allied products .................................... | 1,200 | 0 | 1 |
| Printing and publishing ...................................... | 1,600 | . 1 | 1 |
| Chemicais and allied products .............................. | 1,700 | -. 1 | 1 |
| Petroleum and coal products .............................. | 900 | 0 | 4 |
| Rubber and miscellaneous plastics products .............. | 1,500 | 0 | . 1 |
| Leather and leather products ............................... | 600 | 0 | 4 |
| Service-producing ..................................................... | 53,500 | 0 | 0 |
| Transportation and public utilities ............................... | 10,000 | -. 1 | 1 |
| Transportation ................................................... | 9,000 | -. 1 | 2 |
| Railroad transportation ....................................... | 2,200 | -. 1 | . 7 |
| Local and interurban passenger transit.................. | 3,700 | -. 2 | . 6 |
| Trucking and warehousing .................................. | 5,800 | -. 1 | . 2 |
| Water transportation .......................................... | 1,500 | -. 3 | 8 |
| Transportation by air .......................................... | 4,700 | -. 1 | 4 |
| Pipelines, except natural gas ............................... | 200 | - 3 | . 7 |
| Transportation services ..................................... | 1,200 | -. 1 | . 2 |
| Communications and public utilities ......................... | 4,300 | 0 | . 1 |
| Communications ..................................................................... | 3,800 1,700 | . 1 | . 2 |
| Electric, gas, and sanitary services ........................ |  |  |  |
| Wholesale trade ..................................................... | 7,300 | . 1 | 1 |
| Durable goods ........................................................ | 4,200 | . 1 | .1 |
| Nondurable goods ................................................... | 4,800 | . 1 | . 1 |

See footnotes at end of table.

Table 2-G. Errors of preliminary employment estimates-Continued

| Industry | Root-mean-square error of monthly level' | Mean percent revision |  |
| :---: | :---: | :---: | :---: |
|  |  | Actual | Absolute |
| Retail trade | 33,100 | . 1 | 1 |
| Building materials and garden supplies ........................................................... | 2,500 | 0 | 2 |
| General merchandise stores ................................. | 18,700 | .1 | 5 |
| Department stores ............................................. | 17,300 | . 1 | . 5 |
| Food stores ...................................................... | 6,100 2,900 | -1 | . 1 |
| Apparel and accessory stores ........................................ | 5,900 | . 2 | . 4 |
| Furniture and home furnishings stores ............................. | 3,500 | . 1 | . 3 |
| Eating and drinking places .................................... | 11,700 | . 1 | . 1 |
| Miscellaneous retail establishments ........................ | 8,600 | . 2 | . 3 |
| Finance, insurance, and real estate ............................. | 5,900 | 0 | . 1 |
| Finance ............................................................ | 3,400 | 0 | . 1 |
| Depository institutions ................................................................. | 2,400 | 0 | . 1 |
| Commercial banks .......................................... | 1,800 | 0 | . 1 |
| Savings institutions ......................................... | 1,200 | -. 1 | 3 |
| Nondepository institutions .................................. | 1,400 | . 1 | . 2 |
| Mortgage bankers and brokers .......................... | 1,000 | 0 | . 3 |
| Security and commodity brokers ........................... | 1,000 | 0 | . 2 |
| Holding and other investment offices ..................... | 1,600 | 0 | . 1 |
| Insurance carriers | 2,600 | 0 | . 1 |
| Insurance agents, brokers, and service .................. | 1,100 | . 1 | . 1 |
| Real estate ........................................................ | 2,600 | 0 | . 2 |
| Services ${ }^{2}$. | 29,600 | 0 | . 1 |
| Agricultural services ............................................ | 2,800 | . 1 | 4 |
| Hotels and other lodging places ............................. | 6,200 | . 1 | . 3 |
| Personal services ............................................... | 7,900 | -. 1 | 4 |
| Business services ............................................. | 12,600 | . 1 | . 2 |
| Services to buildings ........................................ | 2,600 | 0 | . 2 |
| Personnel supply services ............................................................. | 11,100 10,700 | . 1 | . 3 |
| Computer and data processing services ................... | 2,500 | . 1 | . 2 |
| Auto repair, services, and parking .......................... | 2,100 | 0 | . 2 |
| Miscellaneous repair services ................................ | 1,100 | 0 | . 2 |
| Motion pictures .................................................. | 5,700 | 0 | . 7 |
| Amusement and recreation services ........................ | 9,000 | . 2 | . |
| Health services .................................................. | 5,300 | O | 1 |
| Offices and clinics of medical doctors ................... | 2,600 | 0 | . 1 |
| Nursing and personal care facilities ....................... | 1,700 | 0 | 1 |
| Hospitals ...................................................... | 3,100 2,000 | 0 | 1 |
| Home health care services ................................................................... | 1,400 | 0 | 1 |
| Educational services ................................................................. | 13,200 | . 1 | . 6 |
| Social services .................................................. | 8,300 | . 1 | . 3 |
| Child day care services ..................................... | 4,600 | . 2 | . 6 |
| Residential care ................................................ | 1,400 | 0 | . 2 |
| Museums and botanical and zoological gardens ........ | 700 | 2 | ${ }^{6}$ |
| Membership organizations ................................... | 3,400 | 0 | 1 |
| Engineering and management services ................... | 4,900 2 | 0 | . 2 |
| Engineering and architectural services Management and public relations . | 2,300 3,300 | 1 | . 3 |
| Services, nec ..................................................... | 400 | 0 | . 7 |
| Government | 19,700 | 0 | . 1 |
| Federal ............................................................. | 9,400 | 0 | . 2 |
| Federal, except Postal Service ............................ | 8,500 | 0 | . 3 |
| State ................................................................ | 11,200 | 0 | . 2 |
| Education ....................................................... | 10,100 | 0 | 4 |
| Other State government ...................................... | 5,200 | 0 | . 2 |
| Local ............................................................... | 16,200 | 0 | . 1 |
| Education ...................................................... | 13,600 11,000 | . 1 | . 1 |
| Other local government .................................... | 11,000 | 0 | . 1 |

${ }^{1}$ The root-mean-square error is the square root of the mean squared error. The mean squared error is the square of the difference between the final and preliminary estimates averaged across a series of monthly observations.
${ }^{2}$ Includes other industries, not shown separately.
NOTE: Errors are based on differences from January 1993 through December 1997.

# Region, State, and Area Labor Force Data ("C" tables) 

## FEDERAL-STATE COOPERATIVE PROGRAM

Labor force and unemployment estimates for States, labor market areas (LMA's), and other areas covered under Federal assistance programs are developed by State employment security agencies under a Federal-State cooperative program. The local unemployment estimates which derive 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 Partnership Act.

Annual average data for the States and 334 areas shown in table C-3 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 6,500 areas, including nearly 2,400 LMA's, counties, and cities with a population of 25,000 or more. Regional aggregations are derived by summing the State estimates. The estimation methods are described below for States (and the District of Columbia) and for subState areas. At the sub-LMA (county and city) level, estimates are prepared using disaggregation techniques based on decennial and annual population estimates and current unemployment insurance data. 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 estinates. Effective January 1996, civilian labor force and unemployment estimates for all States and the District of Columbia are produced using models based on a "signal-plus-noise" approach. The model of the
signal is a time series model of the true labor force which consists of three components: A variable coefficient regression, a flexible trend, and a flexible seasonal component. 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 Current Population Survey (CPS), the Current Employment Statistics (CES) survey, and the unemployment insurance (UI) system. The noise component of the models explicitly accounts for auto correlation in the CPS sampling error and changes in the average magnitude of the error. In addition, the models can identify and remove the effects of outliers in the historical CPS series. While all the State models have important components in common, they differ somewhat from one another to better reflect individual State characteristics.

Two models- one for the employment-to-population ratio and one for the unemployment rate-are used for each State. The employment-to-population ratio, rather than the employment level, and the unemployment rate, rather than the unemployment level, are estimated primarily because these ratios are usually more meaningful for economic analysis.

The employment-to-population ratio models use the relationship between the State's monthly employment from the CES and the CPS. The models also include trend and seasonal components to account for movements in the CPS not captured by the CES series. The seasonal component accounts for the seasonality in the CPS not explained by the CES, while the trend component adjusts for long-run systematic differences between the two series.

The unemployment rate models use the relationship between the State's monthly unemployment insurance (UI) claims data and the CPS unemployment rate, along with trend and seasonal components.

In both the employment-to-population ratio 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 regression portion of the model includes 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, levels are calculated for employment, unemployment, and labor force.

Benchmark correction procedures. Once each year, monthly estimates for all States and the District of Columbia are adjusted, or benchmarked, by BLS to the annual average CPS estimates. The benchmarking technique employs a pro-
cedure (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.

## Estimates for sub-State areas

Monthly labor force, employment, and unemployment estimates for two large sub-State areas -New York City and the Los Angeles-Long Beach metropolitan area-are obtained using the same modeling approach as for states. Estimates for the nearly 2,400 remaining LMA's, are prepared through indirect estimation techniques, described below.

Preliminary estimate-employment. The total civilian employment estimates are based largely on CES data. These "place-of-work" estimates must be adjusted to refer to place of residence as used in the CPS. Factors for adjusting from place of work to place of residence have been developed on the basis of employment relationships at the time of the 1990 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 CES-agricultural employees, 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 two categories: (1) Persons who were previously employed in industries covered by State UI laws; and (2) 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 all LMA's within the State. The LMA estimates geographically exhaust the entire State. Thus, a proportional adjustment is applied to all sub-State preliminary LMA estimates to ensure that they add to the independently estimated State totals for employment and unemployment. For California and New York, the proportional adjustment is applied to all LMA's other than the two modeled areas, to ensure that the LMA estimates sum to an independent model-based estimate for the balance of State.

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 UI claims counts, and updated historical relationships. The updated 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, because 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.

## Household data

Since January 1980, national labor force data have been seasonally adjusted with a procedure called X-Il 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-II ARIMA Seasonal Adjustment Method by Estela Bee Dagum, Statistics Canada Catalogue No. 12564E, January 1983.

BLS uses 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.

At the beginning of each calendar year, projected seasonal adjustment factors are calculated for use during the January-June 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, usually 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. In 1994, data were revised only for that year because of the major redesign and 1990 census-based population controls, adjusted for the estimated undercount, introduced into the Current Population

Survey. In 1996, 1990-93 data also were revised to incorporate these 1990 census-based population controls, and seasonally adjusted series were revised back to 1990. Subsequent revisions are only carried back to 1994.

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 compo-nents-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 and four seasonally adjusted unemployment components. The total for unemployment is the sum of the four unemployment components, and the 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.

In each January issue (March issue in 1996), Employment and Earnings publishes 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 estimate for the first 6 months of the following year, and a description of the current seasonal adjustment procedure.

## Establishment data

Beginning in June 1997, with the release of the March 1996 benchmark revisions, BLS began using an updated version of the X-12 ARIMA software developed by the Bureau of the Census to seasonally adjust national establish-ment-based employment, hours, and earnings series.

The conversion to X-12 ARIMA allows BLS to refine its seasonal adjustment procedures to control for survey interval variations, sometime referred to as the 4 -vs.- 5 week effect. While the CES survey is referenced to a consistent concept, the pay period including the 12 th day of the month, inconsistencies arise because there are variations of 4 or 5 weeks between the week of the 12th in any given pair of months. In highly seasonal months and industries, this variation can be an important determinant of the magnitude of seasonal hires or layoffs that have occurred at the time the survey is taken, thereby complicating seasonal adjustment. The interval effect adjustment is accomplished through the REGARIMA (regression with auto-correlated errors) option in the X-12 software. This process combines standard regression analysis, which measures correlations between two or more variables, with ARIMA modeling, which describes
and predicts the behavior of a data series based on its own past history. In this application, the correlations of interest are those between employment levels in individual calendar months and the length of the survey intervals for those months. The REGARIMA models estimate and remove the variation in employment levels attributable to 11 separate survey intervals, one specified for each month, except March. March is excluded because there are always 4 weeks between the February and March surveys.

Effective with the release of the March 1997 benchmarks, seasonally adjusted series for employment, hours, indexes of aggregate hours, and earnings of production or nonsupervisory workers from 1989 forward incorporate refinements to the seasonal adjustment process to correct for distortions related to the method of accounting for the varying length of payroll periods across months-the calendar effect.

REGARIMA modeling also is used to identify, measure, and remove the calendar effect for the publication level seasonally adjusted hours and earnings series.

Projected seasonal factors for the establishment-based series are calculated and published twice a year, paralleling the procedure used for the household series. Revisions to historical data (usually the most recent 5 years) are made once a year, coincident with benchmark revisions. All series are seasonally adjusted using multiplicative models in $\mathrm{X}-12$. Seasonal adjustment factors are computed and applied at component levels. For employment series, these are generally the 2 -digit SIC levels. Seasonally adjusted totals are arithmetic aggregations for employment series and weighted averages of the seasonally adjusted data for hours and earnings series.

Seasonally adjusted average weekly earnings are the product of seasonally adjusted average hourly earnings and average weekly hours. Average weekly earnings in constant dollars, seasonally adjusted, are obtained by dividing the average weekly earnings series 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 serviceproducing, and major industry divisions, the indexes of aggregate weekly hours, seasonally adjusted, are obtained by summing the aggregate weekly hours 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 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 also makes special adjustments for floating holidays for the establishment-based series on average weekly hours and manufacturing overtime hours. From 1988 forward, these adjustments are now accomplished as part of the X-12 ARIMA/REGARIMA modeling process. The special adjustment made in November each year to adjust for the effect of poll workers in the local government employment series also is incorporated into the X-12 process from 1988 forward.

Revised seasonally adjusted national establishment-based series based on the experience through March 1998, new seasonal adjustment factors for March-October 1998, and a description of the current seasonal adjustment procedure appear in the June 1998 issue of Employment and Earnings. Revised factors for the September 1998-April 1999 period will appear in the December issue.

Beginning in 1993, BLS introduced publication of seasonally adjusted nonfarm payroll employment data by major industry for all States and the District of Columbia (table B-7). Seasonal adjustment factors are applied directly to the employment estimates at the division level (component series for manufacturing and trade) and then aggregated to the State totals. The recomputation of seasonal factors and historical revisions are made coincident with the annual benchmark adjustments. State estimation procedures are designed to produce accurate (unadjusted and seasonally adjusted) data for each individual State. BLS independently develops a national employment series; State estimates are not forced to sum to national totals. Because each State series is subject to larger sampling and nonsampling errors than the national series, summing them cumulates individual State level errors and can cause significant distortions at an aggregate level. Due to these statistical limitations, BLS does not compile a "sum-of-States" employment series, and cautions users that such a series is subject to a relatively large and volatile error structure.

## Region and State labor force data

Beginning in 1992, BLS introduced publication of seasonally adjusted labor force data for the census regions and divisions, the 50 States, and the District of Columbia (tables $\mathrm{C}-1$ and $\mathrm{C}-2$ ). Beginning in 1998, regional aggregations are derived by summing the State estimates. Using the $\mathrm{X}-11$ ARIMA procedure, seasonal adjustment factors are computed and applied independently to the component employment and unemployment levels and then aggregated to regional or State totals. Current seasonal adjustment factors are produced for 6-month periods twice a year. Historical revisions usually are made at the beginning of each calendar year. Because of the separate processing procedures, totals for the Nation, as a whole, differ from the results obtained by aggregating regional or State data.

## INDEX TO STATISTICAL TABLES

TABLE KEY: A: Monthly household data; B: Monthly national and State and area establishment data; C: Monthly regional. State, and area labor force data; D: Quarterly, household data only, in the January, April, July, and October issues. Annual averages: Household data in the January issue; national establishment data in the January, March, and June issues; State and area establishment and labor force data in the May issue. For additional information see the listing on the inside front cover of this publication.




[^0]:    ${ }^{1}$ Differences are based on comparisons of final, published March estimates and benchmark levels, as originally published.

[^1]:    ${ }^{1}$ 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 are therefore not counted.

[^2]:    ${ }^{1}$ Includes other industries, not shown separately.

[^3]:    ${ }^{1}$ Data relate to production workers in mining and manufacturing: construction workers in construction; and nonsupervisory workers in transporation 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 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.
    ${ }^{4}$ No moving-holiday adjustment was done for April or September because there was no evidence of significant effects associated with the relative timing of Easter or Labor Day, respectively, and the

[^4]:    ; Data relate to private production or nonsupervisory workers.
    2 The Consumer Price Index for Utban Wage Earners and Clerical Workers (CPI-W) is used to deflate these series.
    N.A. $=$ not available.

[^5]:    NOTE: Beginning in January 1998, data reflect new composite estimation

[^6]:    See footnotes at end of table.

[^7]:    1 Data not shown where base is less than 75,000.

[^8]:    NOTE: Beginning in January 1998, data reflect new composite estimation

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

[^10]:    1 Less than 0.05 percent.
    NOTE: Beginning in January 1998, data reflect new composite estimation

[^11]:    ${ }^{1}$ Data not shown where base is less than 75,000.
    NOTE: Beginning in January 1998, data reflect new composite estimation

[^12]:    1 Includes a small number of persons whose last job was in the Armed Forces.

    2 Data not shown where base is less than 75,000

[^13]:    NOTE: Beginning in January 1998, data reflect new composite estimation

[^14]:    1 Includes some persons who are not asked if they want a job.
    2 Persons who had a job in the prior 12 months must have searched since the end of that job.

    3 Includes believes no work available, could not find work, lacks necessary schooling or training, employer thinks too young or old, and other types of discrimination.

[^15]:    4 Includes those who did not actively look for work in the prior 4 weeks for such reasons as child-care and transportation problems, as well as a small number for which reason for nonparticipation was not ascertained.

    NOTE: Beginning in January 1998, data reflect new composite estimation procedures and revised population controls used in the household survey.

[^16]:    ${ }^{1}$ 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.

[^17]:    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 This series is not published seasonally adjusted because the seasonal component, which is small relative to the trend-cycle and irreguiar components,

[^18]:    1 Total hours paid for 1 week in the month, seasonally adjusted, multiplied by 52.
    $P=$ preliminary.
    ' = revised.
    NOTE: Data refer to hours of all employees-production workers, nonsupervisory workers, and salaried workers-and are based

[^19]:    See fooinotes at end of table

[^20]:    See footnotes at end of table

[^21]:    See footnotes at end of table

[^22]:    ${ }^{1}$ 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.

[^23]:    ${ }^{3}$ The sample was increased incrementally during the 8 -month period, AprilNovember 1989.
    4 Includes 2,000 additional assigned housing units from Georgia and Virginia that were gradually phased in during the 10 -month period, October 1994August 1995.

[^24]:    ${ }^{1}$ Universe counts for March of each year are used to make annual benchmark adjustments to the employment estimates. About 98 percent of the benchmark employment is from unemployment insurance administrative records, and the remaining 2 percent is from alternate sources. Data represent benchmark levels as originally computed.
    ${ }^{2}$ Difference between the final March sample-based estimate and the benchmark level for total private employment.
    3 The average amount of bias adjustment each month over the

[^25]:    course of an inter-benchmark period, i.e., from April of the prior year through March of the given year.
    ${ }^{4}$ The difference between the March benchmark and the March estimate derived solely from the sample without bias adjustment, converted to a monthly amount by dividing by 12 .
    5 March-to-March changes in the benchmark employment level.
    NOTE: Data in this table exclude government employment because there is no bias adjustment for this sector.

[^26]:    ' Data relate to the 1988-97 benchmarks, as originally published, unless otherwise noted.
    ${ }^{2}$ Less than 0.05 percent.

