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# Labor Month In Review 



SIC Revision. The Federal Office of Management and Budget announced that the Standard Industrial Classification system, which underlies all establishment-based economic statistics, is being revised, effective January 1, 1987. Here are excerpts from the OMB announcement, which appeared in the Federal Register for October 1, 1986, pages 35170 to 35188 .

Background. The sIC system is revised periodically to reflect the economy's changing industrial composition and organization. Changes in the economy since the last major revision in 1972 require an updating of the standard. The revised SIC provides a more current classification structure with which to collect, disseminate, and analyze data on the industrial makeup of the U. S. economy. [Although the revision is effective January 1, 1987, full implementation of the new SIC will occur over several years, with some programs introducing the changes as early as 1988. Data series for years prior to implementation may not always be revised to reflect the 1987 SIC revision.]

Changes. The 1987 sIC revision has resulted in a net increase of 19 industries for Services (Division I), 8 for Wholesale Trade, and 7 for Manufacturing, with a net decrease of 34 for the other SIC Divisions. Deleted industries were merged into other industries and new industries were created by subdividing or restructuring existing industries. Various industries are also changed by transfers of individual activities, primarily to increase data classification accuracy, consistency, and usefulness, or by
renumbering to change the existing threedigit structure.
Most of the industries that are deleted no longer meet the economic significance criteria for continued recognition as a separate industry. However, a few are dropped because the number of companies represented by the establishments classified in the industry is now so small as to cause disclosure problems in publishing data or because the distinctions required cause difficulties in classification.
The revision process included a comprehensive review of Transportation (Major Groups 40-47), Communications (Major Group 48), and Finance (Major Groups $60-62$, and 67 ) to identify revisions needed due to changes in technology and government regulation. Major revisions occurred in Water Transportation, now divided by freight and passengers, and in the structure and detail of Banking and Other Credit Agencies (Major Groups 60-61), in particular to recognize changes in depository regulations. In addition, the decisions include the recognition of new industries for Cable and Other Pay Television (from 4833 and 4899) and Radiotelephone Communications Services (from 4811).

The growth of computer-related activities has resulted in a number of new industries. Several new industries are recognized for computers and computer peripheral equipment in Manufacturing (from 3573). There are industries for the sale of Computers and Computer Peripheral Equipment and Software in Wholesale Trade (from 5081) and Retail Trade (from 5732). Computer establishments are classified in Wholesale Trade if they sell primarily for business or
government use and in Retail Trade if they sell primarily for household use. Additional detail is also added for computer services within current Group 737, including a separate industry for Prepackaged Computer Software.

Considerable emphasis was placed on improved detail for Services (Division I). There is a new Major Group 87 for selected professional and technical services, comprising elements of the current Business Services (Major Group 73) and Miscellaneous Services (Major Group 89). A number of changes are incorporated for Major Group 80, Health Services, to improve detail and data accuracy for this area of rapid growth. Other changes include the recognition of industries for Physical Fitness Facilities (from 7299, 7997, and 7999), Tax Return Preparation Services (from 7299) and Video Tape Rental (from 7394). Various other industries are also subdivided (for example, 7321, 7393, and 7539).

Subdivisions were created for some of the largest and fastest growing current industries in Manufacturing, including Miscellaneous Plastics Products (3079), Radio and Television Communications Equipment (3662), and Electronic Components, not elsewhere classified (3679).

SIC Manual. Clothbound copies of the "Standard Industrial Classification Manual 1987'' may be ordered from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, \$24 before December 31, 1986, $\$ 30$ thereafter. The manual is also available on computer tape, $\$ 175$, and on diskettes upon request. For telephone orders, call (703) 487-4650. $\square$

# Work schedules of Americans: an overview of new findings 

A group of eight articles examines data from a special 1985 household survey covering topics such as the number of workers who moonlight, who work at home, who have flexible hours, or who would prefer to work more or fewer hours per week

Paul O. Flaim

In recent years, we have become familiar with such "megatrends" in the labor force as the rapidly increasing participation of women, the tendency toward earlier retirement among men, the maturing of the baby-boom cohorts, and the shift of workers out of the stagnant goods-producing sector of the economy and into the expanding services sector. Yet, we still have little data about the day-to-day and week-toweek working lives of American men and women. Among the most conspicuous gaps in our knowledge have been such unanswered (or only occasionally answered) questions as: How many Americans work at two jobs? How many work at night, or schedules other than the stereotypical daylight shifts? How many Americans work on weekends? How many have jobs entailing home-based work? And what pro-portions-if offered such a choice-would prefer to work either more or fewer hours per week at their current rates of pay?

Until recently, there was either no information at all concerning these questions or, at best, information which had been collected sporadically and which had become rather dated. Now, thanks to a special survey conducted in 1985, we have both up-to-date information with which to address some of the traditional questions on work schedules, as well

[^1]as entirely new information on work-schedule topics that had not previously been studied at the national level. The new information was collected in May 1985 through a special supplement to the Current Population Survey (CPS), the monthly survey which provides the basic measurements of the labor force and unemployment for the Nation. The new findings are discussed in detail, on a topic-by-topic basis, in the eight articles which follow. Here are some selected highlights.

- Multiple jobholders-persons working at more than one job-numbered about 5.7 million in May 1985. They accounted for 5.4 percent of all employed persons, up from 4.9 percent in 1980.
- Saturday work was the usual routine for one-fourth of all workers, while 1 in 8 reported they usually worked on Sunday.
- Work outside the typical daylight hours-usually in the evening-was the usual routine for about one-sixth of the full-time workers and one-half of the part-time workers.
- Home-based work of at least 8 hours a week was reported by over 8 million workers. However, most were full-time employees who did only a small part of their work at home.
- Flexitime or other schedules enabling workers to vary the start and end of their workday was available to about 12 percent of the wage and salary workers with full-time jobs.
- A preference for a longer workweek (and thus "more money") was expressed by about one-fourth of the workers. In contrast, fewer than 1 in 10 said they would opt for a cut in hours accompanied by a reduction in earnings.

These and other findings from the May 1985 survey-analyzed in great detail in the articles which follow-add considerably to our knowledge of the work routines and preferences of American workers. But before we focus our attention on these detailed findings, it may be worthwhile to briefly review those historical trends in the labor force which provide a useful background and help to set the stage for the study of these topics.

## Background data

While addressing few of the specific questions highlighted above, the data regularly available from the CPS already tell us a lot about the basic trends in the labor force behavior and work patterns of Americans. Through these data, we can, for example, track the historical changes in the rate of labor force participation and in the length of the workweek for the principal population groups. We also have been able to estimate-at least in a rough way-how many persons flow into and out of the labor force over a given period and thus get a notion of the dynamics of the labor force. And when we add to the regularly available data those which have been obtained from time to time through special supplements to the CPS, we can gain yet further insights into the basic labor force behavior of Americans and their work/leisure choices. Let us look briefly at some of these background data.

The expanding labor market role of American womenwhich can actually be tracked on a month-by-month or year-by-year basis with the data from the CPS-can be illustrated here with some key numbers for 1965 and 1985. Over this 20-year period, the labor force participation rate for women (the proportion 16 years and over who are in the labor force) climbed from 39 to 55 percent. Over the same two decades, the comparable rate for men edged down gradually from 81 to 76 percent, reflecting primarily a tendency among them to retire at an earlier age.

It is also important to note that women did not achieve their spectacular increases in labor market penetration over this 20 -year period by taking mostly part-time jobs. To the contrary, the proportion of women working full-time held fairly steady-at nearly 75 percent-during this entire period.

A different perspective on the divergent trends in the work patterns of American men and women comes to us from the "work experience" data collected each March. These data show what proportion of men and women did at least some work during the previous year and, among those with some employment, what proportion managed to work the entire year on a full-time basis. ${ }^{1}$

Focusing again on the changes between 1965 and 1985,
we find that the proportion of women with at least some employment in these 2 years was respectively, 49 and 59 percent. And among the increasing number of women with some employment, the proportion actually working year round on a full-time basis posted an equally robust increase. It expanded from 39 percent in 1965 to 48 percent in 1985. This means that practically half of the women with any labor market involvement are now working full time over the entire year.

Further knowledge of the basic work patterns of Americans, particularly with regard to the dynamics of their labor force behavior, can be gained through the data obtained regularly from those not in the labor force. Because these data tell us how many of these persons left their jobs during the previous 12 months, they can be used to determine, by inference, how many entered the job market over the same period. In this regard, the data collected during 1985 show that, on average, 9.1 million of the persons outside the labor force had left the employment ranks over the previous 12 months. ${ }^{2}$ Because there had been a net employment increase of 2.1 million, we can estimate that at least 11 million persons had to enter the job market over this period to replace the outgoing workers and to account for the additional growth.

The monthly data on "gross flows," although subject to considerable bias and seldom used, point to even larger movements into and out of the labor force. They suggest, in fact, that several million persons may enter and leave the labor force each month. ${ }^{3}$

While this may leave us with the impression that labor mobility is widespread in the United States, that is not necessarily the case. In fact, there is evidence that the American labor force has a large core of workers who remain in their jobs, with most of the mobility occurring among other workers, especially youths. For example, the most recent CPS data on job tenure, collected in January 1983, show that among workers 25 and older (men and women combined), 1 in 3 had been with the same employer for 10 years or more and 1 in 8 had been with the same employer for 20 years or more. ${ }^{4}$ Here is the percent distribution of these workers by years of continuous employment with current employer:

|  | Total | 1 year <br> or less | 2 to 9 <br> years | 10 to 19 <br> years | 20 years <br> or more |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Total $\ldots \ldots .$. | 100.00 | 20.3 | 45.9 | 21.4 | 12.3 |
| Men $\ldots \ldots$ | 100.00 | 18.0 | 42.2 | 23.2 | 16.7 |
| Women $\ldots$. | 100.00 | 23.4 | 50.8 | 19.1 | 6.7 |

While the above data show women to be somewhat more concentrated in the lower tenure categories than are men, they also show that, even among women, more than onefourth had been working continuously for the same employer for 10 years or more. It was from an analysis of these tenure data that some have concluded that, contrary to the conventional wisdom, lifetime jobs are not that uncommon for American workers. ${ }^{5}$

And how many years, altogether, can American workers expect to spend in the labor force over their lifetime? The answers to this question come to us in the form of "worklife" estimates, currently based on the observed labor force behavior over the course of a year of men and women at all specific ages. It has been estimated from these observations (also derived from the CPS) that a man age 25 may expect to work an additional 34 years, and that a working woman of the same age may expect to be in the labor force an additional 25 years. ${ }^{6}$
After this brief review of the basic patterns in the working life of Americans, as reflected in various series of data from the CPS, let us now turn back to the various analyses of the May 1985 data on the day-to-day and week-to-week routines of these workers.

## Analyzing the May 1985 data

The broad picture which emerges from the various analyses of the May 1985 data is of workers with a generally strong attachment to their jobs. The great majority worked 40 hours a week, but many said they regularly worked well over that standard. As already noted, nearly 6 million held two jobs, an even larger number said they usually did some work at home, and weekend work, particularly on Saturday, was a fairly common occurrence. While most workers seemed satisfied with the length of their workweeks, the vast majority of those who would have opted for a change said that they would have preferred a longer workweek so they could earn more money. As a further indication of the relatively strong attachment to their jobs, fewer than 5 percent of the full-time workers reported an absence from work in the week preceding this special survey.
Of the articles that follow, Shirley J. Smith highlights the predominance of the 5 -day 40 -hour workweek. Although finding little change in recent years in the proportion of workers on 40 -hour schedules, Smith notes that there have been some changes in work patterns, with a still small but growing group of workers on "compressed" full-time weeks of less than 5 days. Surprisingly, she also finds some growth in the proportion of workers on part-time schedules who seem to "stretch" their work out over 6 or 7 days.

Susan Shank examines the data on workweek preferences and finds only moderate support for the hypothesis underlying the "backward bending labor supply curve," according to which an increase in rates of pay past a certain point induces workers to reduce their hours of work. Although the proportion of workers choosing fewer hours of work does grow as earnings rise, the category remains very small. Even among workers earning $\$ 750$ or more per week, only about 10 percent of the men and 20 percent of the women were willing to trade hours of work-and the income linked to them-for additional leisure.

Earl Mellor focuses on the workday and finds that about 1 of 8 full-time workers were on flexitime or other schedules that allowed them to vary the start and end of their

## What if you are your own employer?

In analyzing the May 1985 data on work schedules and related topics, we decided to make a small departure from the typology generally used in the display and analysis of data from the Current Population Survey. Specifically, we decided to focus mainly on wage and salary workers and, in doing so, to exclude from this universe those who are the nominal employees of corporations which they own. While "wage and salary workers" in a technical sense-and treated as such in the usual display of employment data from the CPS-these persons (numbering 2.8 million in May 1985) exhibit many of the traits and work patterns of the typical self-employed workers. For this reason, in most of the analyses which follow, these "incorporated self employed" are broken out of the total wage and salary universe and either shown separately or merged with the other selfemployed. The smaller group of "unpaid family workers" (those 500,000 who, although unpaid, worked at least 15 hours a week in a family owned enterprise) are also either shown separately or merged with the self-employed workers (those not incorporated), with the combined group, totaling 9.8 million, generally shown as "all other workers." This allows the analyst to focus more clearly on the wage and salary workers who are truly working for someone else.
daily work. The great majority were on typical daylight schedules, with about one-fifth reporting 8:00 a.m. to 5:00 p.m. as their schedules. About 6 percent worked predominantly in the evening, 3 percent on the "night shift," and 4 percent on rotating shifts.

The data on multiple jobholders are examined by John Stinson. He finds a particularly sharp increase in the number of women with two jobs, which is another sign of the growing strength of their ties to the job market. Nearly 5 percent of working women are now multiple jobholders.

The new data on home-based work are analyzed by Francis Horvath, who observes that most of the persons reporting such work are full-time workers who, apparently, do only a small part of their work at home. Only one-tenth of these workers were engaged in manufacturing activities, an area of traditional concern in the field of labor legislation. Most prevalent were those employed in offices, sales, and miscellaneous services.
Bruce Klein uses the May 1985 data to construct measures of absences. He finds that the proportion of workers with an absence in the reference week for the survey was only 4.7 percent, a rate considerably lower than rates which had been computed for several years until 1980. He hypothesizes that this decline in absences, confirmed by other data, may reflect several factors such as: the job reduction in some industries, which is likely to have fallen most heavily on workers with high rates of absenteeism; the likely impact of such cuts on other workers, who might have reduced their rates of absenteeism so as not to jeopardize their jobs; and the positive measures adopted by some employers to reward the workers with few absences.

Wayne Howe examines the data on the characteristics of the workers employed by temporary help agencies. This has been a rapidly growing sector of employment in recent years. Howe finds that, relative to other workers, those who are employed by temporary help agencies are more likely to be younger and to work part time. Their group contains relatively large proportions of women and blacks, who are heavily concentrated in clerical work and in what might be called "industrial help" occupations.

Darrell Carr looks at the new data on workers receiving overtime pay. These cover not only the persons working more than 40 hours a week; they extend also to those receiving overtime premiums for some hours, even though the weekly total does not exceed 40 . He notes that out of 10.5 million workers with some overtime pay for work performed during the reference week for the May 1985 survey, about 1.6 million had actually worked 40 hours or less.

Taken together, these articles improve our understanding of the work practices of American men and women. Of course, further analysis of the data on which the findings are based is still possible. Moreover, other issues could be addressed using these data. For example, where there are multiple workers in a family one might want to determine how the schedules of one member correspond to those of other members. The effect of the presence of children on the work schedules and workweek preferences of the parents might also be explored further. And a construction of a
bridge between the data on work schedules and preferences of workers and those on family income might also be undertaken. These are complex and time-consuming undertakings, but with potentially large payoffs in the form of further insights into the day-to-day work lives of American men and women.

> -FOOTNOTES
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[^2]
# The growing diversity of work schedules 

While the 40-hour, 5-day workweek remains the schedule of choice for most employers and workers, a recent study shows evidence of the emergence of new forms of extended and compressed work schemes

## Shirley J. Smith

During any given week, the composition of the active segment of the work force undergoes many changes. Each industry and occupation has its own cycle of activity and draws on a somewhat different labor pool. Most production occurs Monday through Friday (or Saturday), frequently with the aid of evening and night shifts on those days. However, some economic activities, such as continuous manufacturing processes, agriculture, transportation and communications, health and certain other services, and retail sales, extend beyond the Monday to Friday schedule. In fact, these activities predominate on Saturday and Sunday. Each demographic group establishes itself within this variable labor market according to the types of jobs its members can obtain and the work schedules they are able to accommodate in their personal lives.

This article, based on the May 1985 Current Population Survey (CPS) supplement, examines several of the work schemes adopted by U.S. workers on their principal jobs. The schedules discussed include the "standard workweek" (that is, 40 hours in 5 days); compressed and extended schedules; part-time, full-time, and long hours schemes; and variations in the number of days worked per week, and in the choice of specific days worked. Where possible, patterns observed in May 1985 are compared with those ob-

Shirley J. Smith is a demographic statistician in the Division of Data Development and Users' Services, Office of Employment and Unemployment Analysis, Bureau of Labor Statistics.
served previously to judge the nature and pace of change. The CPS surveys of May 1973 and May 1979 are used in this comparison to minimize distortions due to business cycle fluctuations.

## The 'standard workweek'

It has been estimated that at the turn of the century the average worker spent about 53 hours per week on the job. ${ }^{1}$ The passage of the Fair Labor Standards Act of 1938 (FLSA) established a standard workweek of 40 hours' duration for nonsupervisory employees of firms engaged in interstate commerce. ${ }^{2}$ Over the ensuing years, concern about workers' health led to many Federal and State statutes and union contracts which stipulated a second standard: the 8 -hour day. Under these provisions, many persons were guaranteed overtime pay for hours worked in excess of this daily standard. The logical outgrowth of these regulations was a third implicit standard, the 5-day workweek.

Persons who were teenagers when the Fair Labor Standards Act was passed had reached retirement age by 1985. In their lifetimes, the coverage of the act has been extended to nearly 60 percent of all wage and salary workers, ${ }^{3}$ and has become not only a matter of law, but a social norm. More than half of all nonfarm wage and salary workers and roughly two-thirds of those working full time report that they work exactly 40 hours per week, proportions which have changed little since the CPS began monitoring usual hours worked on principal jobs in 1973. (See table 1.)

## MONTHLY LABOR REVIEW November 1986 - Growing Diversity of Work Schedules

Because the 40 -hour week is so popular, both with employers and employees, most work schedule data are so strongly unimodal that it is difficult to recognize the changes which occur. Measures of central tendency such as means and medians are totally dominated by the standard schedule, and thus reveal little variation over time. Yet closer examination of the data will show that the work schedules of American workers have been changing, and are becoming increasingly diverse.

Catalysts in this redistribution include the stagnation of employment in manufacturing industries and the rapid growth of certain services and retail trade. Despite a $27-$ percent expansion in all wage and salary employment since May 1973, employment in manufacturing in May 198520.4 million-was no larger than it had been 12 years before. Not only was the number of manufacturing jobs more or less frozen, but the work schedules of those holding jobs had even contracted.

Some of this change is apparent in employers' reports of scheduled hours. The Bureau of Labor Statistics' Area Wage Surveys indicate that the average workweek for fulltime day-shift plant workers decreased by 0.8 hours between 1973 and 1985. Over the same period, the schedule of full-time office workers in the private sector rose by 0.2 hours, with the result that the workweek of these two large groups converged markedly. ${ }^{4}$ Whereas the average plant worker's 1973 workweek was scheduled to last 1.5 hours longer than that of his or her counterpart in the office, by 1985 the differential had narrowed to 0.5 hours. ${ }^{5}$

Despite the evident restructuring of plant schedules, CPS estimates of mean and median usual weekly hours for workers in all industries ( 38.4 and 40.4 respectively in 1985) have hardly changed since 1973. Similarly, the median

Table 1. Prevalence of 40 -hour, 5 -day, and 40 -hour/ 5 -day workweeks among nonagricultural wage and salary workers, 1973, 1979, and 1985

| Work schedule and year | Proportion of- |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | All nonagricultural workers |  |  | Full-time nonagricultural workers |  |  |
|  | Total | Men | Women | Total | Men | Women |
| 40-hour week |  |  |  |  |  |  |
| 1973 | 55.3 | (1) | (1) | 66.1 | (1) | (1) |
| 1979 | 56.0 | 59.1 | 51.8 | 67.6 | 65.1 | 72.0 |
| 1985 | 53.7 | 56.8 | 50.1 | 66.2 | 63.6 | 70.1 |
| 5-day week |  |  |  |  |  |  |
| 1973 | 74.1 | (1) | (1) | 81.4 | (1) | (1) |
| 1979 | 75.4 | 75.4 | 75.4 | 83.5 | 79.4 | 90.4 |
| 1985 - | 73.5 | 73.6 | 73.3 | 82.6 | 78.8 | 88.4 |
| 40-hour/5-day week |  |  |  |  |  |  |
| 1973 | 52.9 | (1) | (1) | 63.3 | (1) | (1) |
| 1979 | 53.3 | 56.1 | 49.6 | 64.4 | 61.7 | 69.0 |
| 1985 | 50.4 | 53.0 | 47.4 | 62.2 | 59.3 | 66.4 |

[^3]length of a full-time workweek has remained nearly fixed at 40.6 hours. For full-time workers, the mean rose slightly from 42.4 to 42.6 between 1973 and 1985, suggesting a slight increase in the number of hours routinely worked. In fact, this increase was due to a decline in the number of full-time workers reporting 35 - through 39 -hour schedules, rather than a rise in the numbers working 41 hours or more.

The median is cited to underscore the tremendous stability of these estimates. Whatever changes have occurred in the tails of the distribution, well over half of employed Americans work the standard schedule, and the remainder continue to be evenly spaced above and below that figure. It requires a fairly visible restructuring of the hours distribution to relocate the median. For this reason, the increase in median hours per week reported by part-time workers (from 20.2 in 1973 to 23.0 in 1985) is noteworthy.

Evidence of the increased diversity of work schedules can be seen in the following distributions for nonfarm wage and salary workers (including the incorporated self-employed):
Change,

During intervening recessionary periods (1974-75 and 1980), May supplements showed the hours distribution to be shifted temporarily downward. A drop in overtime opportunities led to a temporary resurgence of the 40 -hour scheme. However, a comparison of schedules during these periods of relative prosperity reveals that both part-time and the very extended hours schedules have gained proportionately to the more conventional schemes. ${ }^{7}$

It is no surprise that two separate trends were in evidence among those working long hours. The class working 41 to 48 hours, which is dominated by precision production, craft, and repair workers and operators, fabricators, and laborers-the "blue-collar" occupations most affected by the decline in manufacturing-registered relative contraction over the study period. Meanwhile, the group working 49 hours or more, in which "white-collar" occupations such as managers and persons in professional, technical, sales, and administrative support positions outnumber the "bluecollar" group, registered a slight gain.

## Usual days per week

The 5-day workweek is even more prevalent than is the 40-hour week. In 1985, nearly three-quarters of the work
force, and more than four-fifths of those employed full time reported schedules of 5 working days. (See table 1.) Both mean (4.9) and median (5.5) usual days per week have remained nearly constant since 1973.

Even so, the distribution of total workers by usual days of work corroborates the impression that schedules have become more diverse:

|  | 1973 | 1985 | $\begin{aligned} & \text { Change, } \\ & \text { 1973-85 } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Total nonfarm wage and salary |  |  |  |
| workers (in thousands) ${ }^{6}$.. | 69,971 | 94,879 | 24,908 |
| Percent | 100.0 | 100.0 | - |
| 1-3 days | 6.5 | 7.8 | 1.3 |
| 4 or fewer days | 9.8 | 13.0 | 3.2 |
| 4.5 or fewer days | 10.3 | 13.9 | 3.6 |
| 5 days | 74.1 | 73.6 | -. 5 |
| 5.5 or more days | 15.5 | 12.5 | 3.0 |
| 6 or more days | 11.5 | 9.7 | -1.8 |
| 7 days | 1.7 | 2.2 | . 5 |

Observations made during recessions show the 5 -day week to be particularly prevalent in unstable times. Yet, over the 12 years shown, both compressed and very extended workweeks made gains at the expense of the 5 - to 6 -day week.

## Emergence of alternate schedules

The heavy clustering of reported schedules in standard patterns obscures our view of the unconventional schedules which have been gaining popularity in the workplace. One way to identify them is to determine which patterns have registered the highest rates of growth in recent years. Between May 1973 and May 1985, the number of nonfarm wage and salary workers for whom work schedules were tabulated rose by 36 percent. We have estimated the corresponding growth rates within various work schedule groupings, and from each subtracted this average rate of growth. The resulting figures (table 2) illustrate which schemes have gained in popularity (positive values) and which have lost (negative entries).

Several interesting patterns emerge from this computation. The growth of employment in the more conventional schemes has indeed been more sluggish than that in other schedules. For instance, the number of persons on a 40 -hour/5-day week has lagged overall growth by 6 percentage points. Two other 5 -day schemes ( 1 - through 29 -hour and 35 - through 39 -hour workweeks) have lagged even further behind.
Both the extended days and extended hours schemes registered net declines during this period, almost entirely due to the drop in the 41 - through 48 -hour/extended-week scheme. Between May 1973 and May 1985, the absolute number of workers registering this schedule dropped by more than a third.
Although this was a profound setback to the extended workweek ( $5^{1 / 2}$ days or more), lengthy workweeks appear to have gained some momentum among persons working 40 hours or less. The growing dispersion of work hours for


1 The number of nonagricultural wage and salary workers reporting work schedules rose by 35.6 percent between May 1973 and May 1985. This figure has been subtracted from the observed growth rate for each cell so that negligible values signify growth in pace with the total, negative values a lag, and positive values relative expansion.
${ }^{2}$ Cell frequency is too small to warrant this computation.
NOTE: Estimates are for wage and salary workers and the incorporated self-employed age 16 and over. Figures for May 1973 exclude private household workers.
these individuals probably reflects the expansion of weekend employment in retail sales and services, both of which draw from pools of supplemental part-time help.

Among alternate schedules, the most familiar form is generally the "compressed workweek," normally defined as 40 hours' work completed in 4 to $4^{1 / 2}$ days. Employment in such schemes grew about 4.5 times as fast as did total employment during the 12 years preceding May 1985. But other forms of compression were also in evidence. For instance, those working long workweeks ( 41 hours or more) appeared increasingly likely to compress them into a span of 5 days-or even less-thereby reserving a block of time for other activities. There was even some evidence of a growth in "compressed part time," whereby persons working 30 to 34 hours did so in 3 days or less.

The small representation of most of these groups in the work force means that even rapid growth of these cells can have little impact on aggregate measures. It would probably take many years of accelerated growth for these schemes to become popular alternatives to those with which we are most familiar. Certain less dramatic changes (such as the rise in the 5 -day/41-or-more-hour week-another "compressed long hours" scheme) are more easily spotted because they affect larger segments of today's work force.

When the interval is broken into phases before and after May 1979, similar computations show that three schedule groups have lagged throughout the full interval. In addition to the declining 41 -through 48 -hour extended week ( $5^{1 / 2}$ or more days) scheme, the two 5 -day schemes mentioned earlier (light part time of 1 to 29 hours and light full time of 35 to 39 hours) have experienced contraction.

The incidence of the 40 -hour/ 5 -day workweek actually

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kept pace with overall employment growth until 1979. The fact that it has not done so since that time is somewhat surprising, given the occurrence of two serious recessions in the early 1980 's. The temporary effects of each must have been to force many overtime workers into this standard full-time pattern.
Since 1979, only one form of lengthy workweek has registered comparative gains: employment lasting 49 hours or more per week. Most of the gains noted have involved workers compressing these long hours into 5 or fewer days.
The conventional "compressed workweek" (full-time work completed in under 5 days) has been growing at an accelerated rate. While overall employment growth between 1979 and 1985 was 16 percent, this scheme grew more than four times as rapidly. The incidence of "dispersed" schedules, whereby relatively few hours of work occupy $5^{1 / 2}$ or more days per week, seems to have evolved since 1979.

## Differences by sex

Labor analysts often discuss the convergence between male and female work patterns. Table 3, based on changes between May 1979 and May 1985, shows how this convergence is taking place. Standardized rates for men and women are juxtaposed to highlight similarities and contrasts.

The decline of the extended (more than 5-day) week is largely a male phenomenon. With the exception of the 41through 48 -hour variant, which has contracted for both sexes, there has been a growing concentration of women in extended workweek schemes.

The net drop in 41-through 48-hour schedules also has occurred largely among men. Although women, too, have been affected by the contraction of the 41-through 48 -hour/ 5-day scheme, they seem to have more than offset its effects by compressing 41 - through 48 -hour schedules into 5 working days. Indeed, women appear to be pressing into long hour schemes, while men-who traditionally dominated those schemes-increasingly find themselves working compact and compressed schedules. It is difficult to determine how much of this shift has been voluntary, and how much the result of the changes in labor demand.

Both sexes report a declining concentration within standard schedules, and an increased likelihood of working 40 hours within 4 to $4^{1 / 2}$ days. Women seem to be moving up from light ( 1 - through 29 -hour) to more intense (30-through 34-hour) part-time schedules, and from light (35- through 39-hour) to more intense ( 41 or more hours) full-time schemes. At the same time, men are increasingly represented within the lighter hours schedules. There has been surprising growth in the number of men reporting part-time and light full-time schedules. The movement away from standard and extended workweeks to a compressed (4through $4^{1 / 2} 2$-day) schedule is heavily dominated by men. Even for persons working long hours, this change effectively lightens the workweek by holding a block of time free
for other activities. Men also seem largely responsible for the emergence of the "compressed part-time" schedule, perhaps because of growth in the number of protective service jobs.

## Mean hours per day

With more than half of all wage and salary workers and more than 60 percent of those working full time still reporting a 40 -hour $/ 5$-day schedule, it is no surprise that the average workday is approximately 8 hours in length. However, as workers begin to compress their hours into fewer days, this variable should begin to show those effects. This change is most evident among part-time workers, where the length of the average workday has increased by a full hour (from 4.2 to 5.2 hours) since 1973 .

In addition to compression, some of the change is attributable to distributional factors. The work force (including the part-time component) aged over the study period,

Table 3. Standardized percent change in the incidence of various weekly work schedules, by sex, May 1979 to May 1985

| Usual hours worked per week | Usual days worked per week |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | $\begin{gathered} 1-3 \\ \text { days } \end{gathered}$ | $\begin{aligned} & 4-4.5 \\ & \text { days } \end{aligned}$ | $\begin{gathered} 5 \\ \text { days } \end{gathered}$ | More than 5 days |
| Total |  |  |  |  |  |
| Total ${ }^{1}$ | 0 | 10 | 36 | -1 | -3 |
| Men ${ }^{2}$ | 0 | 29 | 62 | -2 | -7 |
| Women ${ }^{3}$ | 0 | -4 | 16 | -3 | 27 |
| Part-time |  |  |  |  |  |
| 1 to 29 hours: |  |  |  |  |  |
| Total | 5 | 3 | 14 | -4 | 59 |
| Men | 10 | 14 | 28 | -11 | 39 |
| Women | -2 | -7 | 4 | -6 | 82 |
| 30 to 34 hours: |  |  |  |  |  |
| Total | 19 | 51 | 19 | 8 | 64 |
| Men | 27 | 109 | 25 | 15 | 36 |
| Women | 10 | 20 | 10 | 0 | 82 |
| Standard hours |  |  |  |  |  |
| 35 to 39 hours: |  |  |  |  |  |
| Total . | 3 | (4) | 39 | -4 | 48 |
| Men | 20 | (4) | 80 | 6 | 107 |
| Women | -10 | (4) | 14 | -14 | 16 |
| 40 hours: |  |  |  |  |  |
| Total. | -4 | (4) | 67 | -6 | 1 |
| Men | -4 | (4) | 81 | -6 | -4 |
| Women | -4 | (4) | 46 | -5 | 15 |
| Extended hours |  |  |  |  |  |
| 41 to 48 hours: |  |  |  |  |  |
| Total . | -5 | (4) | 121 | 10 | -35 |
| Men | -10 | (4) | 85 | 3 | -34 |
| Women | 26 | (4) | (4) | 43 | -19 |
| 49 or more hours: |  |  |  |  |  |
| Total . | 12 | 59 | 181 | 22 | 0 |
| Men | 10 | 53 | 178 | 21 | -1 |
| Women | 51 | (4) | (4) | 47 | 47 |

[^4]with its members becoming more committed to labor force involvement. The strengthening of the labor force attachment of women also contributed to this upward movement.

## Variations by class of worker

The category of workers we have been discussing to this point, denoted "wage and salary workers," includes those who are nominal employees of corporations which they own. While this classification is consistent with other data series published by the Bureau, it hinders the analysis of the work practices of persons who truly work for someone else as distinguished from those who work for themselves, even if their firms are incorporated and they are on the payroll. Whether or not the business is incorporated, its owner faces a different set of risks and responsibilities than does the typical wage and salary worker. Work schedules reflect this difference. For instance, although wage and salary workers average just 38 hours of work per week, the unincorporated self-employed report an average of about 43 hours, and the incorporated, more than 48 . Wage and salary workers claim to work an average of 4.8 days per week, as compared with 5.2 for each of the self-employed groups (which are treated jointly below). Unpaid family workers helping in family businesses often maintain even more erratic schedules tied to periods of peak need. Table 4 illustrates differences between the average work schedules of these groups of workers by sex.

In the past, work schedule reports have devoted little attention to the self-employed and their unpaid family workers. It is relatively difficult for these individuals to summarize their "usual" work patterns by answering a few simple questions. Recognizing that the estimates for these groups may be less robust than for wage and salary workers, we still regard them as important enough to discuss. Each class of worker maintains its own "niche" in the total employment picture. The industries within which entrepreneurs find it easiest to become established (including agriculture, retail trade, and certain services) by their very nature demand long hours and extended workweeks. Certain types of businesses are largely or predominantly self-employed operations. Certain groups of workers (for example, white men) are particularly likely to open their own family businesses. Recognition of these patterns helps to explain why work schedules of these groups differ so dramatically from the norm.

It should be noted that men are twice as likely as women to report self-employment (with the associated longer hours and workweeks). White men are almost three times as likely as blacks to do so. Women are four times as likely as men to supply unpaid family services, but in the aggregate, women are also more likely to be employed for a wage or salary.

Men who are self-employed average more days and many more hours of work per week than do their counterparts who are wage and salary workers. For women, the difference is much less pronounced. Overall, the self-employed are four

Table 4. Incidence of selected work schedules, by class of worker and sex, May 1985

| Work schedules and sex | Class of worker |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Total employed | Wage and salary ${ }^{1}$ | Selfemployed ${ }^{2}$ | Unpaid family workers |
| Total, 16 years and over |  |  |  |  |
| (in thousands) . . . . . | 106,878 | 94,280 | 12,107 | 491 |
| Percent of total employed | 100.0 | 88.2 | 11.3 | . 5 |
| Average hours per week. | 38.7 | 38.0 | 44.2 | 35.4 |
| Full-time . . . . . . . . | 43.3 | 42.3 | 51.0 | 48.7 |
| Part-time | 19.7 | 19.8 | 18.8 | 21.3 |
| Average days per week | 4.9 | 4.8 | 5.2 | 5.5 |
| Full-time . . . . . . . . | 5.1 | 5.1 | 5.1 | (3) |
| Part-time | 3.9 | 3.8 | 4.1 | 5.1 |
| Average hours per day | 7.9 | 7.8 | 48.4 | (4) |
| Proportion working: |  |  |  |  |
| Weekends . . | 29.3 | 26.1 | 53.5 | 52.3 |
| 6 to 7 days . . . . . . . . . . . . | 12.6 | 9.3 | 36.2 | 48.8 |
| Men, 16 years and over (in thousands) | 60,015 | 51,106 | 8,802 | 106 |
| Percent of employed men . . . . . . | 100.0 | 85.2 | 14.7 | . 2 |
| Average hours per week . . . . . . . | 41.6 | 40.6 | 47.2 | 36.6 |
| Full-time . . . . . . . . . | 44.6 | 43.4 | 51.7 | 51.6 |
| Part-time | 19.1 | 19.1 | 19.1 | 22.8 |
| Average days per week | 5.0 | 5.0 | 5.4 | 6.0 |
| Full-time . . . . . . | 5.2 | 5.1 | 5.1 | (3) |
| Average hours per day | 8.3 | 8.2 | 48.8 | (4) |
| Proportion working: |  |  |  |  |
| Weekends | 32.2 | 27.9 | 56.7 | 74.5 |
| 6 to 7 days . . . . . . . . . . . . | 16.1 | 11.8 | 39.6 | 75.6 |
| Women, 16 years and over |  |  |  |  |
| (in thousands) . . . . . . . | 46,864 | 43,173 | 3,305 | 385 |
| Percent of employed women | 100.0 | 92.1 | 7.1 | . 8 |
| Average hours per week . . . | 35.0 | 34.9 | 36.0 | 35.1 |
| Full-time . . . . . . . . | 41.3 | 40.8 | 48.2 | 47.9 |
| Part-time | 20.0 | 20.2 | 18.5 | 20.8 |
| Average days per week | 4.7 | 4.7 | 4.9 | 5.3 |
| Full-time . . . . . . | 5.1 | 5.1 | 5.1 | (3) |
| Average hours per day | 7.4 | 7.4 | 47.1 | (4) |
| Proportion working: |  |  |  |  |
| Weekends . . . . . | 25.6 | 23.9 | 44.8 | 46.5 |
| 6 to 7 days . . . . . . . . . . . . . . . | 8.0 | 6.2 | 37.2 | 41.4 |

${ }_{1}^{1}$ Excludes the incorporated self-employed.
2 Includes both incorporated and unincorporated self-employed.
3 Not available.
4 Data are available only for the self-employed and unpaid family workers combined.
times as likely as wage and salary workers to average 6 or more days of work per week. The evidence suggests thatat least for men-they also work more hours per day.

## Who works weekends?

The class-of-worker variable is particularly relevant to the discussion of specific days of work. The level and character of economic activity is quite different on weekends than during the week. It is even different on Sunday than on Saturday. During the week, about 20 percent of all workers hold primary jobs in manufacturing, and another 20 percent work in professional service jobs. On weekends, these industries account for about 10 percent and 14 percent of all primary jobs, respectively. Retail sales workers, who represent only about 17 percent of the weekday work force, account for more than 34 percent of the population active in their main job on weekends.

The self-employed (whether incorporated or not), and the unpaid working members of their families, often operate businesses which serve active weekend markets. They also bear a greater responsibility for the continued operation of their businesses than do individual wage and salary workers,
and their risks associated with taking time off are necessarily greater. Consequently, whereas fewer than 1 in 10 wage and salary workers maintain an extended (6- or 7-day) workweek, this is the usual schedule reported by more than 1 of every 3 self-employed persons and nearly half of all unpaid family workers.

Table 5 is a "snapshot" of the characteristics of persons who usually report to their primary job on various days of the week. (The categories are not mutually exclusive: some who work Monday to Friday are also included in weekend distributions, and so forth.) As the largest segment of the work force, wage and salary workers dominate each of the groups detailed in the table. However, their share drops from 88 percent during the week to 77 percent on Saturday and to 58 percent among those who work continuously.

On Saturday, the number of persons working at their primary job contracts to 28.9 million, about a quarter (27 percent) of its weekday size. Because fewer than 1 percent of those who work do so exclusively on weekends,

Table 5. Employed persons who usually work on specific days of the week, by selected characteristics, May 1985
[ In percent]

${ }^{1}$ Data are not additive, as persons working on any or all weekdays may also work on weekends.

2 Excludes the incorporated self-employed.
${ }^{3}$ Includes both the incorporated and the unincorporated self-employed.
4 Detail will not add to 100 percent because Hispanics are included in both the white and black populations and because data for the "other races" group are not presented.
the composition of weekend employment tells us as much about who has taken a break as about who is reporting to work. On Saturday, the percentage of overall employment accounted for by prime-aged men holds steady. That of prime-aged women drops sharply, but the proportionate decline is offset by greater work effort among teens, young adults, and men age 65 and over. On Saturday, the representation of the self-employed and unpaid family workers is roughly twice what it is during the week. Of the wage and salary workers who report to work, a disproportionate share hold part-time jobs.

The primary work force contracts still further on Sunday, to 13.2 million-about an eighth of its weekday size. This is the day when prime-aged men are most likely to be taking a break from their main job. (We have no way of judging what share devote the day to secondary employment.) The group normally reporting to their main job on Sunday includes still larger shares of teens and young adults, more older men, and proportionately more prime-aged women. Although there is a slight drop in the activity of the selfemployed (largely men), unpaid family workers (largely women, teens, and young adults) continue to be relatively active.

Of those who normally work at the same job 7 days per week, more than half are prime-aged men; 3 of 10 are women; and 4 of 10 are self-employed. Sixteen percent maintain extended part-time ("dispersed") schedules, mostly as wage and salary employees. The representation of blacks and Hispanics, which drops on weekends, is particularly low among those working 7-day weeks. Undoubtedly, one reason is the lower probability that they own or operate family businesses.

## Work schedules by industry and occupation

We have already noted that the industrial composition of the work force varies during the week, and that the timing of labor demands within each industry affects the labor pool upon which it may draw. Table 6 summarizes, for major industries and occupational groupings, several of the work schedule features previously mentioned. Each category reflects a differing level of labor demand, both with regard to total hours and to scheduling within the week. For illustrative purposes, the groups have been ranked according to the mean number of hours their employees report working each week.

The association between hours requirements, days of work, and female participation in the industry or occupation is fairly strong. The more time the activity involves, the less attraction it seems to hold for women. Although the relationship to weekend work is less pronounced, a similar pattern is evident there as well.

## Multiple jobholding

A separate discussion of multiple jobholding appears elsewhere in this issue, but it is worth taking a brief look at
the effect of this practice on aggregate estimates of time spent at work.

The information in this article relates to the worker's primary job. For the small group of workers ( 5.4 percent) who held two or more jobs in the May 1985 reference week, the total hours and days reported will understate the actual amount of time spent at work. Because dual jobholding can be a functional equivalent to working long hours on a single job, there are many applications in which we might like to see the data tabulated for all jobs combined. A reestimation on this basis increases the share of the work force shown to be working more than 40 hours, and reduces the share working 40 hours or less. Overall, it expands the share working more than 40 hours by 12.3 percent, with still greater impact on the estimates for women ( 19.7 percent), blacks ( 17.0 percent), and men and women ages 16 to 24 ( 14.7 percent and 28.5 percent respectively). ${ }^{8}$

Despite the fact that the majority of workers still report maintaining a 40 -hour/5-day workweek, there is evidence that this scheme has been declining in popularity. Employment in such schedules has lagged behind total employment growth since 1979. Throughout the 1973-85 period, long-hour/long-day schemes have been contracting, both for men
and for women.
In their place, three other schemes are emerging. Both sexes have demonstrated increased readiness to work a simple compressed workweek, wherein 40 hours of work are completed in under 5 days. Those working more than 40 hours per week appear to be working more compact schedules within the confines of a 5-day week (or less), holding two or more days free for other activities. Among those working 40 hours or less, some appear to be adopting "work spreading" schemes, which distribute their hours over $5^{1 / 2}$ or more days per week. The result is a diversification of schedules which has occurred without much corresponding change in the mean or median estimates of usual hours or days worked per week.

In the aggregate, men continue to work more hours per week, more hours per day, and more days per week than do women, and they are also more likely to work on weekends. Elements of the standard workweek thus continue to dominate overall work schedule distributions. Nonetheless, the growth of the female work force has been most rapid in long hours schedules and those involving $5^{1 / 2}$ or more days per week, while the expansion of the male labor force has occurred primarily in shorter, more compact schedule groupings.

[^5]${ }^{5}$ The May 1985 supplement to the Current Population Survey (CPS) requested information on usual rather than scheduled hours. As such, it picks up the added effects of routine overtime and uncompensated long hours. In addition, the CPS information has been collected from household respondents, rather than employers' records as in the Area Wage Survey. Results of the two surveys are not directly comparable, but should normally reinforce one another's findings.
${ }^{6}$ Figures for 1973 exclude private household workers, and those not reporting work schedules. Figures for 1985 have been adjusted to distribute nonresponse.
${ }^{7}$ If private household workers had been included in distributions for both years, it is likely that the drop of the 40 -hour week and the rise of the 49-or-more-hour week would both have been somewhat less pronounced.
${ }^{8}$ There may still be some omissions, because no hours details were collected for tertiary jobs.

# Shift work and flexitime: how prevalent are they? 

New data reveal that shift work and flexitime are not widespread; only 1 of 10 full-time wage and salary workers is on an evening or night shift, and only 1 of 8 has a flexible schedule

Earl F. Mellor

Although the needs of society require a diversity of work schedules, most Americans have traditional morning to lateafternoon hours. The great majority of full-time wage and salary earners begin work between 7 and 9 in the morning. The proportion who work in the evening or at night, or who are on flexible schedules, is rather small. In contrast, almost half of all part-time employees work schedules other than regular day shifts, and nearly one-fifth have some type of flexible scheduling. The incidence of shift work and flexitime varies by sex, race, age, and other characteristics, but differences are more apparent by occupation and industry.

These patterns are revealed in newly available data from the Current Population Survey (CPS), which asked questions on beginning and ending hours of work, shift work, and the availability of flexitime, to name a few. The information relates to people who were at work during the week of May 12-18, 1985, and was collected in a special supplement to the May 1985 CPS. ${ }^{1}$

## Workday, from start to finish

Nearly 8 of 10 full-time wage and salary workers began their workdays between 7 and 9 a.m. during the survey reference week, with $8 \mathrm{a} . \mathrm{m}$., by far, the most reported time. (See table 1.) With so many workers starting at these hours, it is not surprising that the most frequent quitting times were between 4 and 6 p.m., with 5 p.m. leading. Thus, tradi-

[^6]tional daytime shifts predominate, with 8-to-5, 7-to-4, 8-to4 , and 9 -to- 5 schedules being the most popular. Of the top 10 work schedules (of a possible 576) only one-the tenth ranked 3-to-11 p.m. shift-included a substantial number of hours outside the normal daylight span. (The times actually reported are rounded to the nearest hour when they are entered on the CPS questionnaire. For example, 8 a.m. refers to any reported time between $7: 30$ and $8: 29$. See appendix for further details.)

For part-time workers, 7 to 9 a.m. were the most frequently reported starting times, accounting for 45 percent of the total. The most popular quitting times were in the 3-to-5 p.m. span. As was the case for full-time workers, parttimers most often reported an $8 \mathrm{a} . \mathrm{m}$. to $5 \mathrm{p} . \mathrm{m}$. work daybut these hours accounted for only 4 percent of the part-time schedules. Part-time jobs-in terms of starting time, quitting time, and the overall schedule-were far less concentrated within the top 10 rankings. Whereas the top 10 schedules were reported by 71 percent of all full-time workers, they fit the pattern for only 29 percent of part-time workers.

## Shift work

There are two ways to determine a worker's shift. One is based on the time the person begins and ends the workday; ${ }^{2}$ the other is based on responses to a question regarding which shift persons considered themselves to usually work. The former method permits a precise definition (for example, a day shift is one in which half or more hours worked are between 8:00 a.m. and 4:00 p.m.), and thus a shift work definition can be tailored to the user's particular needs.

Table 1. Most prevalent beginning and ending hours of work and overall schedules of wage and salary workers, by usual full- and part-time status, May 1985
[Numbers in thousands]

| Rank | Beginning time |  |  | Ending time |  |  | Overall daily schedule |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Time | Number of workers | Percent of all workers | Time | Number of workers | Percent of all workers | Schedule | Number of workers | Percent of all workers |
| Full-time workers |  |  |  |  |  |  |  |  |  |
| $1$ | 8 a.m. | 29,116 | 39.7 | 5 p.m. . | 25,807 | 35.2 | 8 a.m. to 5 p.m. | 16,025 | 21.8 |
| 2 | 7 a.m. . | 17,532 | 23.9 | 4 p.m. . | 16,750 | 22.8 | 7 a.m. to 4 p.m. | 7,947 | 10.8 |
| 3 | 9 a.m. . | 11,004 | 15.0 | 6 p.m. | 8,440 | 11.5 | 8 a.m. to 4 p.m. | 7,256 | 9.9 |
| 4 | 6 a.m. . | 3,864 | 5.3 | 3 p.m. | 6,645 | 9.1 | 9 a.m. to 5 p.m. | 6,172 | 8.4 |
| $5 \ldots . .$. | 3 p.m. | 2,043 | 2.8 | 7 p.m. | 2,896 | 3.9 | 7 a.m. to 3 p.m. | 4,087 | 5.6 |
| 6 | 10 a.m. | 1,597 | 2.2 | 12 midnight | 1,927 | 2.6 | 8 a.m. to 6 p.m. | 2,902 | 4.0 |
| 7 | 4 p.m. | 1,526 | 2.1 | 11 p.m. . | 1,816 | 2.5 | $9 \mathrm{a.m}$.to 6 p.m. | 2,726 | 3.7 |
| 8 | 11 p.m. | 1,110 | 1.5 | 8 p.m. | 1,355 | 1.8 | 7 a.m. to 5 p.m. | 2,585 | 3.5 |
| $9 \ldots$ | 5 a.m. . | 814 | 1.1 | 2 p.m. | 1,256 | 1.7 | 7 a.m. to 6 p.m. | 1,477 | 2.0 |
| $10 \ldots$. | 12 midnight | 634 | . 9 | 7 a.m. | 1,142 | 1.6 | 3 p.m. to 11 p.m. | 1,238 | 1.7 |
| Part-time workers |  |  |  |  |  |  |  |  |  |
| 1 ........ | 9 a.m. | 3,179 | 18.2 | 5 p.m. | 2,481 | 14.2 | 8 a.m. to 5 p.m. | 703 | 4.0 |
| 2 | 8 a.m. | 3,111 | 17.8 | 4 p.m. | 2,192 | 12.5 | 9 a.m. to 5 p.m. | 651 | 3.7 |
| 3 | 7 a.m. | 1,605 | 9.2 | 3 p.m. | 1,962 | 11.2 | $9 \mathrm{a} . \mathrm{m}$. to 3 p.m. | 602 | 3.4 |
| 4. | 10 a.m. | 1,517 | 8.7 | 2 p.m. | 1,480 | 8.5 | 8 a.m. to 4 p.m. | 550 | 3.1 |
| 5. | 4 p.m. | 1,328 | 7.6 | 6 a.m. | 1,311 | 7.5 | $7 \mathrm{a} . \mathrm{m}$. to 4 p.m. | 494 | 2.8 |
| 6 | 5 p.m. | 1,318 | 7.5 | 9 p.m. | 1,238 | 7.1 | 5 p.m. to 9 p.m. | 449 | 2.6 |
| 7 | 3 p.m. | 993 | 5.7 | 10 p.m. | 1,106 | 6.3 | 9 a.m. to 4 p.m. | 421 | 2.4 |
| 8 | 11 a.m. | 782 | 4.5 | 1 p.m. | 979 | 5.6 | $8 \mathrm{a} . \mathrm{m}$. to 3 p.m. | 409 | 2.3 |
| 9 | 12 noon. | 637 | 3.6 | 12 noon | 967 | 5.5 | 8 a.m. to 12 noon | 405 | 2.3 |
| 10 | 1 p.m. | 605 | 3.5 | 8 p.m. | 767 | 4.4 | $8 \mathrm{a} . \mathrm{m}$. to $2 \mathrm{p} . \mathrm{m}^{1}$. | 398 | 2.3 |
| ${ }^{1}$ There were also 398,000 workers on a 9 a.m. to 2 p.m. schedule. NoTE: Data refer to wage and salary workers, excluding the incorporated self-employed, who |  |  |  |  | were at work during the reference week. Times refer to beginning and ending hours most days of the week and are rounded to the nearest whole hour. |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

However, this makes no allowance for split or rotating shifts. The latter method allows the respondents to say what they consider is the shift usually worked. This concept permits the incorporation of split and rotating shifts as well as reduces the reporting of deviations from the usual work schedule which may have occurred in a given week. It is the self-identified notion of shift which is the focus of the analysis in this article. ${ }^{3}$

Generally speaking, shift work is a great advantage to employers who need to match production with demand, accommodate the nature of certain production processes, and reduce the cost of capital per employee. However, except for those who cannot work at a regular daytime job (for instance, students) and those who prefer evening or night hours, shift work often does not benefit workers or their families. In fact, the effects of shift work-particularly night and rotating shifts-can be quite disruptive, with such consequences as sleeping, digestive, and nervous disorders and interference with family relationships. ${ }^{4}$

Of the 73.4 million full-time wage and salary workers who were at work during the survey reference week, 61.7 million, or 84 percent, described their usual work period as a "regular daytime schedule." Of the remaining 11.6 million -called "shift workers"5-most worked an evening shift ( 4.6 million), followed by rotating ( 3.1 million), night ( 2.0 million), and split shifts (about 540,000 ). A substantial number ( 1.4 million) worked some other schedule; presumably, this would include daytime workers who felt their schedules were not "regular," and may include some on flexitime who vary their beginning and ending times.

Men were more likely than women to be shift workers.

This was the case also in each age group, except for teenagers. (See table 2.) More than one-quarter of the teens who worked full time were not on a regular daytime schedule. Among adult men, the incidence of shift work decreased with age, reaching 15 percent for the 45 and over age groups. For adult women, the incidence fell with age to 11 percent for 35 - to 44 -year-olds, and then rose slightly in the upper ages, reaching 13 percent for those 65 and older. The evening shift accounted for one-third to one-half of all shift workers, except men age 65 and over.

Blacks were more likely than whites or Hispanics to be shift workers. Hispanic men were as likely as white men, but considerably less likely than black men, to work other than a regular daytime schedule. Hispanic women, however, were less likely than both white and black women to be shift workers. Married (spouse present) persons had much smaller proportions working shifts than either singles or those of other marital status. Given that single workers are usually younger than married workers, the higher incidence is probably the result of age differences. Younger workers have less seniority on the job-hence, less choice in shift selection. In addition, youths tend to be in the types of jobs that are more likely to require shift work. Another consideration is that married workers may be less willing to work other than day schedules.

Among occupational and industry groups, shift work is associated with skill and product demands which cannot be satisfied by daytime schedules alone. These include businesses whose customers wish to shop until 9 or 10 at night, or even around the clock; the need for police and fire protection and health care 24 hours a day; and the overnight
delivery of goods. On the supply side, some production processes requires continuous operation, as it would be too costly to shut down each evening and restart each morning. In other cases, high capital costs necessitate around-theclock utilization.

The incidence of shift work was 10 percent or less among full-time workers in managerial and professional jobs; administrative support, including clerical jobs; and farming, forestry, and fishing occupations. However, within some of these occupations, there were groups with an incidence of shift work of 20 percent or higher-for example, health diagnosing, assessment, and treating occupations among professional workers, and mail and message distributing workers within the administrative support category. (See table 3.) Protective service workers ( 61 percent) were most likely to work shifts (in fact, 22 percent worked rotating shifts), followed by workers in food ( 43 percent) and health services ( 36 percent). Other occupational groups traditionally associated with shift work-the operators, fabricators, and laborers group, and salesworkers in retail trade and personal services-had about one-quarter on shift work.

For most occupations, the evening shift was the most frequent departure from a regular day schedule. The exceptions were health professionals, retail and personal salesworkers, protective service workers, and motor vehicle operators, who reported rotating shifts more frequently than evening shifts. Night shifts were the least common, accounting for about 3 percent of all full-time workers. But, the incidence of night shifts was well above average for some in the groups noted for the likelihood of rotating shifts.

Shift work was more prevalent in the private sector (16.5 percent) than the public sector ( 12.8 percent). Among goods-producing industries in the private sector, shift work was highest in mining and lowest in construction. (See table 3.) In manufacturing, it was most frequent in areas requiring continuous production (because startup and shutdown costs are high), such as primary metals, automobiles, paper products, chemicals, and rubber and plastics. In the serviceproducing sector, shift work was most often reported in transportation, retail trade (particularly in eating and drinking places), personal services, entertainment and recreation, and hospitals-all activities for which product demand goes

Table 2. Shift usually worked by full-time wage and salary workers, by selected characteristics, May 1985
[Percent distribution]

| Characteristic | $\begin{gathered} \text { Total } \\ \text { employed } \\ \text { (in thousands) } \end{gathered}$ | Regular daytime schedule | Shift workers |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | Evening shift | Night shift | Rotating shift | Split shift | Other shift |
| Total, 16 years and over ..................... | 73,395 | 84.1 | 15.9 | 6.3 | 2.7 | 4.3 | 0.7 | 1.9 |
| Age |  |  |  |  |  |  |  |  |
| Men, 16 years and over ..................... | 43,779 | 82.2 | 17.8 | 6.8 | 3.0 | 4.9 | . 8 | 2.3 |
| 16 to 19 ................................ | 1,139 | 72.6 | 27.4 | 11.8 | 4.7 | 7.0 | 1.6 | 2.3 |
| 20 to 24 ................................ | 5,567 | 80.0 | 20.0 | 8.5 | 3.5 | 5.0 | . 9 | 2.1 |
| 25 to 34 .............................. | 14,281 | 80.0 | 20.0 | 7.8 | 3.3 | 5.6 | 8 | 2.5 |
| 35 to 44 ................................ | 10,630 | 83.6 | 16.4 | 5.7 | 2.7 | 5.0 | . 7 | 2.3 |
| 45 to 54 ............................... | 7,094 | 85.4 | 14.6 | 5.3 | 2.7 | 3.9 | . 5 | 2.2 |
| 55 to 64 ............................... | 4,594 | 85.5 | 14.5 | 5.6 | 2.1 | 3.8 | 1.0 | 2.0 |
| 65 and over ........................... | 474 |  | 14.6 |  | 2.5 |  | 1.0 | 4.5 |
| Women, 16 years and over . . . . . . . . . . . . . . . . . | 29,616 | 87.0 | 13.0 | 5.5 | 2.3 | 3.3 | . 6 | 1.2 |
| 16 to 19 ................................. | 777 | 71.1 | 28.9 | 12.8 | 4.0 | 9.4 | . 6 | 2.1 |
| 20 to 24 ................................ | 4,346 | 84.0 | 16.0 | 6.7 | 2.0 | 5.1 | . 9 | 1.3 |
| 25 to 34 | 9,510 | 87.5 | 12.5 | 5.3 | 2.2 | 3.3 | . 6 | 1.0 |
| 35 to 44 | 7,080 | 88.9 | 11.1 | 4.8 | 2.3 | 2.2 | . 4 | 1.3 |
| 45 to 54 | 4,753 | 88.4 | 11.6 | 4.6 | 2.2 | 2.8 | . 8 | 1.2 |
| 55 to 64 | 2,838 | 87.3 | 12.7 | 5.3 | 2.6 | 3.2 | . 6 | 1.0 |
| 65 and over | 311 | 85.8 | 14.2 | 7.3 | 3.8 | - | . 8 | 2.3 |
| Race and Hispanic origin |  |  |  |  |  |  |  |  |
| White . . . . . . . . . . . . . . . . . . . . . . . . . . . |  |  | 15.3 | 5.8 | 2.6 | 4.3 | . 7 |  |
| Men . . . . . . . . . . . . . . . . . . . . . . . . . . | 38,588 | 82.7 | 17.3 | 6.3 | 2.9 | 5.0 | . 8 | 2.3 |
| Women | 24,935 | 87.7 | 12.3 | 5.0 | 2.1 | 3.3 | . 6 | 1.2 |
| Black . . . . . . . . . . . . . . . . . . . . . . . . . . . . | 7,847 | 80.1 | 19.9 | 9.8 | 3.5 | 4.3 | . 7 | 1.7 |
| Men | 4,054 | 77.4 | 22.6 | 10.6 | 3.7 | 5.3 | .7 | 2.3 |
| Women | 3,793 | 83.0 | 17.0 | 8.9 | 3.2 | 3.2 | . 7 | 1.1 |
| Hispanic origin . ............................ | 4,911 |  |  |  |  |  |  |  |
| Men . .................................. | 3,184 | 82.3 | 17.7 | 7.7 | 2.8 | 4.0 | 1.2 | 1.9 |
| Women | 1,727 | 88.8 | 11.2 | 5.8 | 1.9 | 2.0 | . 6 | . 9 |
| Marital status |  |  |  |  |  |  |  |  |
| Men: |  |  |  |  |  |  |  |  |
| Single, never married | 9,703 | 78.9 | 21.1 | 9.3 | 3.6 | 5.0 | 1.1 | 2.2 |
| Married spouse present . . . . . . . . . . . . . . . . . . | 29,666 | 83.5 | 16.5 | 5.7 | 2.7 | 5.1 | . 6 | 2.3 |
| Widowed, divorced, or separated ............. | 4,410 | 80.4 | 19.6 | 8.5 | 3.6 | 4.0 | 1.1 | 2.3 |
| Women: |  |  |  |  |  |  |  |  |
| Single, never married . .................... | 7,109 | 83.6 | 16.4 | 6.8 | 2.3 | 5.2 | . 6 | 1.3 |
| Married, spouse present .................... | 15,679 | 89.9 | 10.1 | 4.3 | 1.9 | 2.3 | 6 | 1.0 |
| Widowed, divorced, or separated ............ . | 6,828 | 83.7 | 16.3 | 7.0 | 3.3 | 3.6 | . 8 | 1.5 |

NOTE: Data refer to wage and salary workers, excluding the incorporated self-employed, who
were at work during the reference week. Dash indicates fewer than 0.05 percent.

Table 3. Shift usually worked by full-time wage and salary workers, by occupation and industry, May 1985
[Percent distribution]

beyond traditional daytime hours.
The incidence of shifts was much higher for those who did not usually work 5 days a week. Almost two-thirds of those working full-time on a 3-day-a-week schedule and just over a third of those on 4-day schedules considered themselves shift workers. Half of the 3-day workers reported
working "other shifts." This should be expected, because each day's work would average at least 12 hours and would not be considered by many as a regular daytime shift, even if most of the hours fell during daytime hours. About 29 percent of those working a 6-day week and 38 percent of 7-day workers considered themselves shift workers.

Of those who reported a reason for not working a regular daytime schedule, 28 percent cited voluntary reasons, including better arrangements for child care or care of other family members, better pay, or time for school. Of the 72 percent giving "involuntary" reasons, 9 of 10 cited the schedule as a requirement of the job; most of the remainder reported they worked shifts because they could not find any other job.

Part-timers were about three times as likely as full-time workers to work other than a regular daytime schedule. Employers often hire part-time help to cover periods of peak demand, which may be as short as 3 or 4 hours on weekdays and may require nonconventional working hours. This is the case, particularly in retail sales and in entertainment and recreation. Many seeking part-time work, especially students, are able to work only evenings or weekends. Nearly half of all part-time workers and four-fifths of the 16- to 19 -year-olds were shift workers. About one-quarter of the part-timers worked in the evening. (See table 4.) Employees in sales, service (particularly protective service), transportation and material moving, and in handler, equipment cleaner, helper, and laborer jobs were most likely to work other than a regular daytime schedule. Seven of ten parttime workers in protective service jobs were on shifts.

## Flexible schedules

Under flexitime, employees can vary the times their workdays begin and end. The arrangements vary among establishments, and even among units within an establishment, depending on such factors as production, customer, and other coverage requirements; public laws and collective bargaining agreements; and the attitudes of individual managers and supervisors.

The amount of flexibility made possible by flexitime arrangements varies-ranging from as little as 30 minutes to 3 hours or more. Some plans permit variation in the number of hours worked per day, and in some cases, even the total number of hours worked each week, or pay period, and provide for the accumulation of "credit hours." Nearly all plans have a "core-time" requirement: all employees must work during the core time every day, or in some cases, on specified days of the week. A flexitime plan may be a formal document with detailed definitions, rules, and procedures, or it may be so informal that it is not explicitly identified as a flexible work schedule. ${ }^{6}$

Some potential advantages of a flexitime program are decreased tardiness, added hours of service to the public, smoothing rush-hour traffic peaks, larger blocks of employee leisure time, facilitating child care, and better

Table 4. Shift usually worked by part-time wage and salary workers, by selected characteristics, May 1985
[Percent distribution]

| Characteristic | $\begin{gathered} \text { Total } \\ \text { employed } \\ \text { (in thousands) } \end{gathered}$ | Regular daytime schedule | Shift workers |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Total | Evening shift | Night shift | Rotating shift | Split shift | Other shift |
| Age |  |  |  |  |  |  |  |  |
| Total, 16 years and over | 17,497 | 52.5 | 47.5 | 25.1 | 5.0 | 7.1 | 2.3 | 8.0 |
| Men, 16 years and over | 5,670 | 43.5 | 56.5 | 30.3 | 5.4 | 7.3 | 2.5 | 11.0 |
| 16 to 19 | 2,008 | 21.0 | 79.0 | 53.6 | 4.4 | 7.7 | 1.6 | 11.8 |
| 20 to 24 | 1,228 | 41.2 | 58.8 | 31.8 | 7.5 | 8.6 | 1.4 | 9.5 |
| 25 and over | 2,434 | 63.2 | 36.8 | 10.4 | 5.2 | 6.3 | 3.8 | 11.1 |
| Women, 16 years and over | 11,826 | 56.8 | 43.2 | 22.6 | 4.8 | 7.0 | 2.3 | 6.6 |
| 16 to 19 .. | 2,006 | 20.9 | 79.1 | 52.1 | 4.3 | 12.5 | 1.2 | 9.0 |
| 20 to 24 | 1,798 | 46.0 | 54.0 | 27.2 | 6.5 | 11.4 | 1.5 | 7.3 |
| 25 and over | 8,022 | 68.2 | 31.8 | 14.1 | 4.6 | 4.6 | 2.7 | 5.8 |
| Occupation |  |  |  |  |  |  |  |  |
| Managerial and professional specialty .... | 2,321 | 65.1 | 34.9 |  |  |  |  |  |
| Executive, administrative, and managerial | 516 | 71.8 | 28.2 | 10.4 | 3.6 | 3.6 | 1.8 | 8.9 |
| Professional specialty ............... | 1,805 | 63.2 | 36.8 | 15.5 | 4.5 | 5.4 | 2.3 | 9.1 |
| Technical, sales, and administrative support | 6,460 | 54.1 | 45.9 | 24.4 | 4.7 | 8.6 | . 9 |  |
| Technicians and related support | 389 | 50.8 | 49.2 | 23.0 | 7.0 | 12.8 | 1.2 | 5.1 |
| Sales occupations ..... | 2,902 | 40.8 | 59.2 | 31.8 | 4.8 | 14.0 | . 9 | 7.7 |
| Administrative support, including clerical | 3,169 | 66.7 | 33.3 | 17.8 | 4.3 | 3.1 | . 9 | 7.1 |
| Service occupations | 5,339 | 44.1 | 55.9 | 33.5 | 6.0 | 7.0 | 2.1 | 7.2 |
| Private household | 648 | 64.2 | 35.8 | 15.4 | 2.3 | 2.9 | 1.4 | 13.9 |
| Protective service | 235 | 29.1 | 70.9 | 27.6 | 12.5 | 8.8 | 12.0 | 10.1 |
| Service, except private household and protective . . | 4,457 | 42.0 | 58.0 | 36.4 | 6.2 | 7.5 | 1.7 | 6.1 |
| Precision production, craft, and repair . |  |  |  |  | 3.3 | 2.6 | . 8 | 8.1 |
| Mechanics and repairers ........ | 158 | 63.0 | 37.0 | 24.6 | 3.9 | 1.3 | . |  |
| Construction trades .. | 303 | 85.5 | 14.5 | 4.2 | . 7 | 1.1 | - | 8.5 |
| Other precision production, craft, and repair | 192 | 70.7 | 29.3 | 5.5 | 6.9 | 6.2 | 2.6 |  |
| Operators, fabricators, and laborers . . . . . . . . . . . | 2,148 | 47.8 | 52.2 | 23.6 |  |  |  |  |
| Machine operators, assemblers, and inspectors .... | 555 | 68.8 | 31.2 | 16.6 | 3.5 | 4.5 | - | 6.7 |
| Transportation and material moving occupations ... | 550 | 39.9 | 60.1 | 11.5 | 6.3 | 6.0 | 26.5 | 9.7 |
| Handlers, equipment cleaners, helpers, and laborers. . | 1,043 | 40.7 | 59.3 | 33.7 | 5.5 | 9.7 | . 8 | 9.6 |
| Farming, forestry, and fishing . . . . . . . . . . . . . . . | 577 | 51.9 | 48.2 | 21.0 | 3.5 | 3.5 | 4.8 | 15.4 |

NOTE: Data refer to wage and salary workers, excluding the incorporated self-employed, who
were at work during the reference week. Dash indicates fewer than 0.05 percent.

Table 5. Full-time wage and salary workers on flexible work schedules, by selected characteristics, May 1985
[Numbers in thousands]

| Characteristic | Total |  | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | With flexible schedules | Percent of all workers | With flexible schedules | Percent of all workers | With flexible schedules | Percent of all workers |
| Age |  |  |  |  |  |  |
| Total, 16 years and over | 9,061 | 12.3 | 5,760 | 13.2 | 3,300 | 11.1 |
| 16 to 19 .......... | 178 | 9.3 | 115 | 10.1 | 63 | 8.1 |
| 20 to 24 | 1,070 | 10.8 | 625 | 11.2 | 445 | 10.2 |
| 25 to 34 | 3,127 | 13.1 | 1,916 | 13.4 | 1,211 | 12.7 |
| 35 to 44 | 2,468 | 13.9 | 1,597 | 15.0 | 872 | 12.3 |
| 45 to 54 | 1,372 | 11.6 | 932 | 13.1 | 440 | 9.3 |
| 55 to 64 | 737 | 9.9 | 495 | 10.8 | 242 | 8.5 |
| 65 and over | 108 | 13.8 | 80 | 16.9 | 28 | 9.2 |
| Race and Hispanic origin |  |  |  |  |  |  |
| White | 8,105 | 12.8 | 5,270 | 13.7 | 2,835 | 11.4 |
| Black | 707 | 9.0 | 332 | 8.2 | 375 | 9.9 |
| Hispanic origin | 425 | 8.6 | 286 | 9.0 | 139 | 8.0 |
| Occupation |  |  |  |  |  |  |
| Managerial and professional specialty | 3,448 | 18.2 | 2,340 | 21.5 | 1,109 | 13.8 |
| Executive, administrative, and managerial | 1,785 | 19.7 | 1,183 | 20.6 | 601 | 18.0 |
| Professional specialty | 1,664 | 16.9 | 1,156 | 22.4 | 507 | 10.8 |
| Technical, sales, and administrative support | 3,215 | 14.6 | 1,540 | 18.5 | 1,675 | 12.3 |
| Technicians and related support | 480 | 18.8 | 327 | 22.6 | 153 | 13.9 |
| Sales occupations | 1,340 | 19.9 | 940 | 23.1 | 400 | 15.1 |
| Administrative support, including clerical | 1,395 | 11.0 | 273 | 9.7 | 1,122 | 11.4 |
| Service occupations | 619 | 8.5 | 302 | 8.5 | 317 | 8.5 |
| Private household | 30 | 11.1 | 1 | (1) | 30 | 11.0 |
| Protective service | 109 | 8.5 | 101 | 8.7 | 8 | 6.6 |
| Service, except private household and protective | 479 | 8.4 | 200 | 8.4 | 279 | 8.4 |
| Precision production, craft, and repair | 717 | 6.8 | 658 | 6.8 | 59 | 7.3 |
| Mechanics and repairers | 255 | 7.1 | 246 | 7.1 | 9 | 7.0 |
| Construction trades ... | 232 | 7.1 | 229 | 7.1 | 3 | (1) |
| Other precision production, craft, and repair. | 230 | 6.4 | 183 | 6.1 | 47 | 7.3 |
| Operators, fabricators, and laborers | 847 | 6.4 | 728 | 7.2 | 120 | 3.7 |
| Machine operators, assemblers, and inspectors | 273 | 4.0 | 187 | 4.5 | 85 | 3.3 |
| Transportation and material moving occupations | 397 | 11.5 | 389 | 11.8 | 8 | 5.6 |
| Handlers, equipment cleaners, helpers, and laborers | 178 | 5.7 | 151 | 5.7 | 26 | 5.4 |
| Farming, forestry, and fishing | 214 | 15.1 | 192 | 15.4 | 22 | 12.6 |
| Data not shown where base is less than 75,000 . were at work during the reference week. |  |  |  |  |  |  |

scheduling of the work force to coincide with variations in the workload. Potential problem areas include the added need for managers and supervisors to schedule and plan the work flow and ensure the coverage of critical functions, the possible lack of supervision at some hours, added timekeeping needs, and nonlabor costs associated with more hours of operation (for example, heating and cooling). ${ }^{7}$

About 9.1 million full-time wage and salary workers (excluding the incorporated self-employed) who worked during the survey reference week in May 1985 were reported as having a work schedule which permitted them to vary their beginning and ending hours of work. (See table 5.) This was 12.3 percent of the covered workers. The incidence of flexible scheduling was lowest for teenagers ( 9.3 percent) and highest for the 35 to 44 and 65 and over age groups. Men were more likely than women to have flexibility in their work day, as were whites, compared with their black or Hispanic counterparts.

Among occupational groups, the ability to vary work hours ranged from 4 percent for machine operators, assemblers, and inspectors to 20 percent for those in sales occupations. For some more detailed classifications, the incidence
was more than 30 percent, such as mathematical and computer scientists; natural scientists; technicians, except health, engineering, and science; and sales representatives (commodities except retail). The incidence was higher for men than for women for each occupational, age, and race or Hispanic category.

The likelihood of flexible scheduling was slightly higher in the private sector ( 12.6 percent) than in the public sector (11.3 percent). However, it was 20 percent in the Federal Government, where many agencies have formal flexitime programs. Within the private sector, those in serviceproducing industries (at 14.5 percent) had higher proportions with the freedom to vary work times than those in goods-producing industries ( 9.8 percent). Among industry groups, the incidence ranged from under 5 percent in furniture and fixtures, textiles, and apparel, to 15 percent or more in agriculture, printing and publishing, wholesale trade, finance, insurance, and real estate, business and repair services, personal services, entertainment and recreation, and the "other" professional services category, which includes legal services, membership organizations, and engineering, architectural, and surveying services.

## MONTHLY LABOR REVIEW November 1986 - How Prevalent are Shift Work and Flexitime?

Employees on regular daytime schedules were more likely to have the ability to vary their starting and ending hours ( 12.7 percent) than those on evening shifts ( 6.6 percent), night shifts ( 8.2 percent), or rotating shifts ( 10.8 percent). Nearly one-quarter of those on split shifts had either flexitime or some other scheduling arrangement permitting flexibility.

Part-time workers were more likely than their full-time counterparts to have flexibility in the scheduling of their work, with 3.3 million ( 18.6 percent) being able to do so. As with full-time workers, the proportion of men reporting flexibility was higher than that of women (19.8 versus 18.0 percent.)

## FOOTNOTES

[^7]accordingly), would be tallied as 7:00 to 4:00 if that earlier time was reported as the starting time. Both factors may combine to partially explain the large number of those with such 10 -hour spans as 8 -to- 6 and 7-to-5 schedules. Accordingly, an 8-hour work requirement of 8:30 to 5:30 (less an hour for lunch) may appear as 8 to 6 . In addition, proxy respondents may not know precise starting and ending times and may report the times an employee departs from and returns home. The span also includes any time not worked, such as lunch and other breaks and the time between the work periods of split shifts-which vary in length among workers.
${ }^{3}$ See Workers on Late Shifts, Summary 81-13 (Bureau of Labor Statistics, 1981); and Janice N. Hedges and Edward Sekscenski, "Workers on late shifts in a changing economy," Monthly Labor Review, September 1979 , pp. 14-22, for previously published data on shift work. Data published in this article are not comparable to those previously published on the subject.
${ }^{4}$ See Hedges and Sekscenski, "Workers on late shifts"; and Peter Finn, "The effects of shift work on the lives of employees," Monthly Labor Review, October 1981, pp. 31-35.
${ }^{5}$ Although a regular daytime schedule is, strictly speaking, a "shift," the term shift work is used here to describe only those schedules other than a "regular daytime schedule."
${ }^{6}$ Some of the variations of flexitime used among the plans covering Federal Government employees are flexitour, gliding time, variable day, variable week, and maxiflex. See The Federal Employees Flexible and Compressed Work Schedules Act of 1978: An Overview of the Experimental Program for Federal Agencies (Washington, U.S. Office of Personnel Management, 1979).
${ }^{7}$ See John D. Owen, Working Hours (Lexington, MA, Lexington Books, 1979), which has a thorough discussion of alternative work schedules, including the practicality of flexitime in different work situations. For testimony which cites both the merits and limitations of flexitime, see Flexible and Compressed Work Schedules and Federal Employees Flexible and Compressed Work Schedules Act, hearings before the Subcommittee on Human Resources of the Committee on Post Office and Civil Service, U.S. House of Representatives (Washington, Government Printing Office, 1982 and 1985, respectively).

## APPENDIX: Notes on the data

Unless otherwise indicated, information in this article covers wage and salary workers, excluding the incorporated self-employed, who reported having worked during the week of May 12-18, 1985. Coverage includes both the private and public sectors and workers both in and out of agricultural industries. The data were collected for the Bureau of Labor Statistics by the Bureau of the Census as part of the May 1985 Current Population Survey (CPS). The CPS employs a scientifically selected sample of about 59,500 households in all 50 States and the District of Columbia.

Information on beginning and ending hours of work were obtained from responses to the following questions:
34. LAST WEEK at what time of day did . . . begin work on this job most days?
35. LAST WEEK at what time of day did . . . end work on this job most days?
Answers were coded in 1-hour increments, centered on the hour. For example, answers ranging between 4:30 and 5:29 p.m. were coded as 5:00 p.m.

Information for most of the data on shift work was obtained from the following:
36. Which of the following best describes the hours . . usually works at this job?
A regular daytime schedule ...... 0
A regular evening shift ........... $\bigcirc$
A regular night shift ............. $\quad \circ$
A rotating shift-one that changes periodically from days to evenings or nights 0
A split shift-one consisting of two distinct periods each day ....... $\circ$
Other.$\ldots \ldots \ldots \ldots \ldots \ldots \ldots$....................

The May 1985 data on shift work are not comparable to those which were published for the 1973-80 period. The earlier data were based on beginning and ending hours of work questions (as in 34 and 35 above). At that time, the day shift was defined as one at which the majority of hours
worked was between $8 \mathrm{a} . \mathrm{m}$. and 4 p.m.; the evening shift had a majority of its hours between 4 p.m. and midnight; and the night shift had a majority of its hours worked between midnight and $8 \mathrm{a} . \mathrm{m}$. In the event of a tie (for example, 12 noon to 8 p.m.), day took precedence over evening, and evening took precedence over night. "Shifts" were limited to 6- to 12 -hour periods; those shorter or longer were classified as "miscellaneous" shifts. In addition, the 1973-80 data excluded farm workers but included any self-employed workers whose businesses were incorporated. The 1985 data are based on the self-identification of usual shift; the data include farm workers and exclude self-employed workers.

A limited amount of the 1985 shift work data was crosstabulated according to the old definition of shifts. Of those reporting a regular daytime schedule, 97 percent would have been classified as working a day shift based on beginning and ending hours. There is far less conformity among those tabulated as working evening ( 90 percent) or night ( 63 percent) shifts, as many of these would have fallen into the miscellaneous category based on the "old" way of tabulating shifts. As expected, those reporting that they usually work a rotating shift were distributed among each of the categories based on beginning and ending hours; and many of
those reporting that they usually work a split or "other" shift would have fallen into the previous "miscellaneous" category.

The data on the presence of flexitime were obtained from the question:
40. Is . . . on flexitime or some other schedule that allows workers to vary the time they begin and end work?

$$
\begin{aligned}
& \text { Yes . . . . . . . . . . O } \\
& \text { No } 0 \\
& \text { Don't know . . . O O }
\end{aligned}
$$

The May 1985 data on flexitime are not comparable to those collected in May 1980, because of a difference in coverage. The earlier survey included self-employed workers whose businesses were incorporated (most of whom-by defini-tion-can vary their work hours) and excluded farm workers, while the 1985 survey did not ask the flexitime question to the incorporated self-employed, but did include farm workers. Even though the 1985 data indicated only a small rise in the incidence of flexible work times-from 11.9 percent to 12.3 percent for full-time workers-the rise would have been larger if the incorporated self-employed had been included.

## A note on communications

The Monthly Labor Review welcomes communications that supplement, challenge, or expand on research published in its pages. To be considered for publication, communications should be factual and analytical, not polemical in tone. Communications should be addressed to the Editor-inChief, Monthly Labor Review, Bureau of Labor Statistics, U.S. Department of Labor, Washington, D.C. 20212.

# Moonlighting by women jumped to record highs 

> An important, but small, proportion of Americans work at two jobs or more; they do so principally for financial reasons such as meeting regular expenses or paying off debts and also to explore new careers while still holding on to their primary jobs

## John F. Stinson, Jr.

According to a survey conducted in May 1985, multiple jobholders totaled 5.7 million, 5.4 percent of all employed workers. This was up from 4.9 percent in 1980 and was the highest level in more than 20 years. Data from the same survey confirm the continuance of two long-term trends: an increasing number of women among the moonlighters and a decline in the proportion of multiple jobholders with at least one job in agriculture.

These findings are from a special survey of work patterns of American workers. ${ }^{1}$ Multiple jobholders, as identified in this survey, are those employed persons who, during the survey reference week, either (1) had jobs as wage or salary workers with two employers or more; (2) were selfemployed and also held a wage and salary job; or (3) were unpaid family workers on their primary jobs but also held wage and salary jobs. ${ }^{2}$ The primary job is the one at which the greatest number of hours were worked.

## Demographic characteristics

The survey revealed that between 1980 and 1985, the number of women with two jobs or more rose by almost 40 percent to 2.2 million. Over the same period, the multiple jobholding or "moonlighting" rate for women (percent of employed with more than one job) jumped from 3.8 to

[^8]4.7 percent. In 1985, women made up nearly two-fifths of all moonlighters.
Moonlighting among women has actually been rising steadily since 1970, paralleling their continued increase in overall labor force participation. Over the decade and a half, the number of women holding at least two jobs has more than tripled and their moonlighting rate has risen from 2.2 to 4.7 percent. (See table 1.)
The moonlighting rate for men, which had undergone a long-term decline before stabilizing during the 1970's at around 6 percent, continued to hold steady at 5.9 percent in May 1985. While men are still more likely than women to be working at two jobs or more, the gender difference in the incidence of multiple jobholding has been sharply reduced over time. As recently as 1970, the moonlighting rate for men exceeded that for women by 5 percentage points; by 1975, the gap had shrunk to 3 percentage points; by 1980, it had declined to 2 points; and, as shown above, by 1985, it barely exceeded 1 point.
Significant differences still persist, however, in the types of jobs held by the men and women who moonlight. In 1985, about 40 percent of the women were working at multiple part-time jobs, while more than four-fifths of the male moonlighters usually worked full time at their primary jobs and part time on their secondary jobs.

Among men, the proportion holding more than one job increases progressively in each age group, reaching a peak of 7.1 percent in the 35 to 44 years interval and declining
steadily thereafter. Among women the pattern was much different. The proportion holding multiple jobs was 5 percent in all age groups below 45 years and then dropped off progressively. (See table 2.)

While married men were more apt to moonlight than either single men or those who were widowed, divorced, or separated, married women were somewhat less likely to work at more than one job than were those without a spouse.

Whites continued to be much more likely than blacks to work at two jobs or more. In fact, the moonlighting rate for whites increased from 5.1 to 5.7 percent between 1980 and 1985, while the black rate was unchanged at 3.2 percent. The increase for whites was principally among women, whose moonlighting rate rose a full percentage point to 4.9 percent; the rate for white men edged up slightly to 6.2 percent. Hispanic women had a moonlighting rate of 2.8 percent, about the same as that for black women, while the rate for Hispanic men was below that of blacks and only half the rate of white men.

## Reasons for working at more than one job

Economic factors predominate among the reasons for moonlighting. About 41 percent of persons working more than one job in May 1985 reported that they did so in order to meet regular expenses or pay off debts, and 13 percent cited a desire to save for the future. Another 17 percent indicated that their principal reason for moonlighting was to get experience or build up a business, while 29 percent reported various other reasons. Women were slightly more likely than men to indicate the desire to get experience in a different field of work. (See table 3.)

Marital status had a clear effect on the reasons reported for moonlighting. Single men and women were more likely than other groups to moonlight in order to accumulate savings for the future. Current financial considerations
played a much more important role in the decision to moonlight for widowed, divorced, and separated workers. More than two-thirds of the women and almost half of the men in that category cited either the need to meet regular expenses or to pay off debts as their reason for working at more than one job.

There was also a sharp divergence in the distribution of the reasons for multiple jobholding reported by blacks and whites. Blacks of both sexes were much more likely than whites to say they moonlighted in order to help with regular expenses and paying off debts and much less likely to say they did so to get experience or to build up a business.

## Class of worker, industry, and occupation

The proportion of multiple jobholders engaged in farming in either their primary or secondary job-a prominent activity among dual jobholders in the past-declined to fewer than one-tenth in May 1985. In most cases, these workers had primary jobs as wage and salary workers in nonagricultural industries but did some farming on their own. (See table 4.) While the proportion of such workers had been edging down as shown in the following tabulation, the drop between 1980 and 1985 was particularly sharp, undoubtedly reflecting the myriad problems encountered by the farm sector in recent years:

|  | Total multiple jobholders (thousands) | With at least one job in agriculture |  |
| :---: | :---: | :---: | :---: |
|  |  | Total (thousands) | Proportion |
| 1970 | 4,048 | 943 | 23.3 |
| 1975 | 3,918 | 890 | 22.7 |
| 1977 | 4,558 | 922 | 20.2 |
| 1979 | 4,724 | 871 | 18.4 |
| 1980 | 4,759 | 835 | 17.5 |
| 1985 | 5,730 | 532 | 9.3 |

Table 1. Employed persons 16 years and over holding two jobs or more and multiple jobholding rates by selected character-
istics, May 1970 to May 1985 istics, May 1970 to May 1985
[Numbers in thousands]

| Year |  | Total employed | Multiple jobholders |  |  |  | Multiple jobholding rate ${ }^{1}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Men | Women |  | Total | Men | Women | White | Black ${ }^{2}$ |
|  |  | Number |  | Percent of all multiple jobholders |  |  |  |  |  |
| 1970 |  |  | 78,358 | 4,048 | 3,412 | 636 | 15.7 | 5.2 | 7.0 | 2.2 | 5.3 | 4.4 |
| 1971 | . | 78,708 | 4,035 | 3,270 | 765 | 19.0 | 5.1 | 6.7 | 2.6 | 5.3 | 3.8 |
| 1972 |  | 81,224 | 3,770 | 3,035 | 735 | 19.5 | 4.6 | 6.0 | 2.4 | 4.8 | 3.7 |
| 1973 |  | 83,758 | 4,262 | 3,393 | 869 | 20.3 | 5.1 | 6.6 | 2.7 | 5.1 | 4.7 |
| 1974 |  | 85,786 | 3,889 | 3,022 | 867 | 22.3 | 4.5 | 5.8 | 2.6 | 4.6 | 3.8 |
| 1975 |  | 84,146 | 3,918 | 2,962 | 956 | 24.4 | 4.7 | 5.8 | 2.9 | 4.8 | 3.7 |
| 1976 | . | 87,278 | 3,948 | 3,037 | 911 | 23.1 | 4.5 | 5.8 | 2.6 | 4.7 | 2.8 |
| 1977 |  | 90,482 | 4,558 | 3,317 | 1,241 | 27.2 | 5.0 | 6.2 | 3.4 | 5.3 | 2.6 |
| 1978 |  | 93,904 | 4,493 | 3,212 | 1,281 | 28.5 | 4.8 | 5.8 | 3.3 | 5.0 | 3.1 |
| 1979 |  | 96,327 | 4,724 | 3,317 | 1,407 | 29.8 | 4.9 | 5.9 | 3.5 | 5.1 | 3.0 |
| 1980 |  | 96,809 | 4,759 | 3,210 | 1,549 | 32.5 | 4.9 | 5.8 | 3.8 | 5.1 | 3.2 |
| 1985 |  | 106,878 | 5,730 | 3,537 | 2,192 | 38.3 | 5.4 | 5.9 | 4.7 | 5.7 | 3.2 |

[^9]Table 2. Employed persons with two jobs or more by age, marital status, race, and Hispanic origin, May 1985 [Numbers in thousands]


Table 3. Multiple jobholders by sex, marital status, race and the reason for working at more than one job, May 1985

| Characteristic | Total (thousands) | Percent distribution by reason |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | To meet regular household expenses | To pay off debts | To save for the future | To get experience or build up a business | Other reason |
| Total, 16 years and over | 5,730 | 100.0 | 31.6 | 9.3 | 13.0 | 17.0 | 29.2 |
| Men, 16 years and over | 3,537 | 100.0 | 30.3 | 9.0 | 12.9 | 18.1 | 29.7 |
| Single ... | 767 | 100.0 | 20.7 | 10.4 | 21.5 | 19.5 | 27.9 |
| Married, spouse present . . . . . | 2,447 | 100.0 | 33.4 | 7.6 | 11.0 | 18.0 | 30.1 |
| Widowed, divorced, or separated | 323 | 100.0 | 29.2 | 17.0 | 7.2 | 15.4 | 31.1 |
| White | 3,291 | 100.0 | 29.4 | 9.1 | 12.8 | 18.4 | 30.3 |
| Black | 187 | 100.0 | 45.6 | 10.6 | 12.8 | 11.1 | 20.0 |
| Women, 16 years and over | 2,192 | 100.0 | 33.7 | 9.7 | 13.1 | 15.3 | 28.2 |
| Single | 681 | 100.0 | 28.5 | 8.7 | 22.1 | 14.1 | 26.6 |
| Married, spouse present . | 1,001 | 100.0 | 27.2 | 7.8 | 10.6 | 20.1 | 34.2 |
| Widowed, divorced, or separated | 510 | 100.0 | 53.5 | 14.8 | 6.0 | 7.0 | 18.8 |
| White | $1,995$ | 100.0 | 33.3 | 8.9 | 12.9 | 15.7 | 29.2 |
| Black | 151 | 100.0 | 40.1 | 19.7 | 16.3 | 5.4 | 18.4 |

Table 4. Multiple jobholders by industry and class of worker of primary and second job, May 1985
[Numbers in thousands]

|  |  | Multiple | bholders |  | econd job in | griculture |  | Second nagricultural | in industries |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Primary job | Total employed | Number | As a percent of total employed | Total | Wage and salary job | Self-mployed | Total | Wage and salary job | Self-employed |
| Total, 16 years and over | 106,878 | 5,730 | 5.4 | 382 | 81 | 300 | 5,348 | 3,866 | 1,482 |
| Agriculture | 3,524 | 186 | 5.3 | 36 | 13 | 22 | 150 | 137 | 13 |
| Wage and salary workers | 1,731 | 103 | 6.0 | 32 | 10 | 21 | 71 | 58 | 13 |
| Self-employed workers | 1,582 | 74 | 4.7 | 3 | 3 | (1) | 71 | 71 | (1) |
| Unpaid family workers | 211 | 8 | 4.0 | - | - | (2) | 8 | 8 | (2) |
| Nonagricultural industries | 103,354 | 5,544 | 5.4 | 346 | 67 | 279 | 5,198 | 3,728 | 1,469 |
| Wage and salary workers | 95,379 | 5,266 | 5.5 | 342 | 64 | 278 | 4,924 | 3,459 | 1,469 |
| Self-employed workers . . | 7,694 | 269 | 3.5 | 3 | 3 | (1) | 266 | 266 | (1) |
| Unpaid family workers | 280 | 9 | 3.2 | - | - | (2) | 9 | 9 | (2) |
| 1 Self-employed persons with a secondary business or farm, but no wage and salary job, are not counted as multiple jobholders. |  |  | 2 Persons whose primary job was as an unpaid family worker are counted as multiple jobholders only if they also had a wage and salary job. |  |  |  |  |  |  |

Among the other multiple jobholders-that is, the vast majority who did not engage in any agricultural workabout one-third were self-employed in at least one job, usually the second job. The rest worked as wage and salary employees in both jobs.

The workers whose primary jobs were in industries such as entertainment and recreation services; professional services, especially educational services; and public administration were the most likely to engage in moonlighting. In terms of specific occupations, the men most likely to moonlight were those employed as teachers, both at and below the college level, or as health technologists and technicians. Between 16 and 19 percent of them held a second job. A high proportion of dual jobholders ( 13.9 percent) was also found among male protective service workers, a group which includes police, who frequently moonlight as guards and security personnel. There were no occupations for women with such high rates of multiple jobholding. The highest rates for women were among officials and administrators in public administration, with a moonlighting rate of 7.5 percent, and health diagnosing occupations; teachers at all levels; and engineering and science technicians, all with rates around 7 percent.

## Hours of work and earnings

Multiple jobholders usually worked an average of about 14 hours per week on their secondary jobs. Almost twothirds worked less than 16 hours, while about 15 percent reported 25 hours or more of moonlighting work. Although blacks are much less likely than whites to hold more than one job, about 20 percent of black moonlighters reported usually working more than 25 hours per week at their second job, compared with about 15 percent of whites.

Combining all jobs, moonlighters worked an average of 51 hours per week in May 1985. The average for men, at 55 hours per week, exceeded by 10 hours that usually worked by women with two jobs or more.

The median usual weekly earnings from all jobs of multiple jobholders (who were wage and salary workers on their primary job) $)^{4}$ was $\$ 343$ in May 1985. For women who moonlighted, total weekly earnings from all jobs (\$241) were equal to little more than half of the earnings of multiple-jobholding men (\$450). The total weekly earnings for black multiple jobholders were $\$ 305$, slightly below the

## \$344 average for whites.

Looking only at the second jobs, the earnings reported by multiple jobholders yielded a median of \$70 in May 1985. Just over three-fifths of the moonlighters reported earnings of below $\$ 100$ per week for their second job; one-fourth reported between $\$ 100$ and $\$ 200$; and about 13 percent reported earnings of over $\$ 200$ per week. As was generally the case with regard to the principal job, men earned considerably more on the second job-\$85 per week-than did women- $\$ 57$ per week. Three quarters of the women reported weekly earnings of less than $\$ 100$ on their second job, compared with a little more than half of the men.

Consistent with their greater hours worked, blacks reported earning more on their second jobs than did white moonlighters; the medians for the two groups were, respectively, $\$ 81$ and $\$ 69$ per week. Because black workers tend to earn much less in their primary jobs than do white workers, the earnings from secondary jobs help to narrow the income gap between whites and blacks who engage in multiple jobholding.
FOOTNOTES

[^10]
# Missed work and lost hours, May 1985 

> Absences were lower in 1985 than at any time since 1973; for the first time, absence rates in the goods-producing industries were lower than the rates in the service-producing industries

Bruce W. Klein

On any given day, some people do not show up at work for one reason or another. These unscheduled absences can disrupt the work flow and raise costs such as sick pay and the hiring of temporary help. Absences may also result in a reduction in product quality and low morale among the workers who get additional duties passed onto them.

According to data collected in May 1985 from the Current Population Survey (CPS), about 4.7 percent of the full-time nonfarm workers had an absence in a typical week caused by illness, injury, civic duties, or personal reasons. The proportion of hours lost was 2.6 percent of the potential that would have been worked during the survey's reference week. These absence figures were substantially lower than those last obtained in a 1980 survey. In fact, they showed the first decline since the Bureau of Labor Statistics began estimating absences in 1973.

The proportion of full-time wage and salary workers who had an absence which kept them from working at least 35 hours per week declined by more than 20 percent between May 1980 and May 1985. An absence measure computed by the Bureau of National Affairs from entirely different data has also shown a similar decline over the same period. ${ }^{1}$ In addition to a decline in the percent of workers absent from

[^11]work, the CPS shows that the percent of total worktime lost because of absences also declined by more than 20 percent during the period mentioned. ${ }^{2}$ (See table 1.)

The drop in absences during this 5-year period may have stemmed from the aftereffects of the 1981-82 recession. There appear to be two primary reasons for a drop in absences: (1) workers laid off during the recession are likely to have included many of the frequent absentees, and (2) remaining workers were less likely to be absent from their jobs in the aftermath of a recession or during a period of business uncertainty for fear of job loss. ${ }^{3}$ In addition, absence rates may have remained low during the economic recovery because of explicit personnel policies on absences. In some cases, various penalties and incentives were put into place to keep them down. ${ }^{4}$

Although there has been a substantial reduction in the frequency of absences and in the proportion of time lost, the number of hours lost per individual worker with an absence increased slightly between 1980 and 1985. Reasons other than illness or injury were responsible for most of the increase.

## Absence concepts

The term "absences," as used here, relates to generally unscheduled periods of leave from work. Reasons for absences include illnesses, injuries, personal and civic commitments, and'mishaps. For example, car failure is some-
times an excuse for an absence. The data presented here relate only to full-time wage and salary workers, those who usually work more than 35 hours per week and who hold only one job. They are deemed to have been absent by reporting that they worked less than 35 hours per week because of illness, injury, or other reasons.

Absences are measured by rates which identify (1) the proportion of workers with an absence; (2) the proportion of hours lost relative to all scheduled hours; or (3) relative to the hours usually worked by those with an absence. Specifically, the incidence rate is the number of workers absent divided by the total employed times 100 or,

$$
\frac{\text { Number of workers absent }}{\text { Total employed }} \times 100
$$

The inactivity rate is the number of hours absent divided by the total number of hours usually worked times 100 or,

$$
\frac{\text { Numbers of hours absent }}{\text { Number of hours usually worked }} \times 100 .
$$

A third measure, the severity rate, indicates the proportion of hours lost by workers with an absence relative to the hours they usually work, also expressed in percentage terms, or

$$
\frac{\text { Number of hours lost by absent workers }}{\text { Number of hours usually worked by absent workers }} \times 100
$$

## Annual rates and comparisons

Extrapolating from the data gathered for May, it is estimated that because of absences, an average worker lost 7.2 days in 1985, compared with an estimate of 9.7 days in 1980. It is estimated that a typical worker had absences in 3 of 52 weeks during 1985, down from 4 of 52 weeks in 1980.

The absence rate for the United States- 4.7 percentcompares favorably with recent percentage rates of the following countries: England (11.8), Canada (11.6), Denmark (7.7), France (5.9), the Netherlands (5.4), Belgium (3.8), Greece (3.1), Germany (3.0), Sweden (3.0), Italy (2.9), and Japan (2.5). The rates for Australia and Ireland are similar to the U.S. rate- -4.3 and 5.2 , respectively. ${ }^{5}$

## Variation by industry and occupation

Differences in absence rates between the various industries and occupations were also significant, as were their trends. In May 1985, for the first time, the absence rates in goods-producing industries were lower than those in service-producing industries. This was true both for the incidence of absences and the measurement of hours lost because of absences. This reversal could reflect a new attitude in goods-producing industries regarding the costs associated with unscheduled work absences. Many companies have instituted various policies to reduce absences, using
both "the carrot and the stick." In some instances, they have introduced the practice of giving bonuses to workers with high attendance. They have also counseled workers who are frequently absent before taking more serious steps against them. In part because of these new policies and the other factors cited above, the durable goods industry has achieved especially low absence rates. (See table 2.)

Public administrations have the highest percentage of workers with absences, which may be the result of liberal leave policies towards Federal, State, and local government employees. Businesses which supply professional services also have relatively high rates of absences, both in terms of incidence and inactivity. Within the professional services sector, educational and medical service providers have the highest absence rates. This may reflect the fact that teachers, who make up a large component of this group, usually have an allotment of personal days off which are filled by substitute teachers. Absences are not easily explained for employees of hospitals and other health service providers.

In terms of occupation, the absence rate reported by persons in executive and administrative positions, and those in management-related occupations was relatively low-3.2 percent. This contrasts sharply with the higher incidence of absences for professional specialists, 5.2 percent. These differences, which are also reflected in the proportion of time lost, could be caused by the high degree of competition and visibility among executives and also the fact that some of the professionals, such as teachers, have contracts which allow for a certain number of absences during the year. (See table 3.)

The precision production, craft, and repair occupations

| Measure | 1980 | 1985 | - 1980-85 change |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Number | Percent |
| Absent workers |  |  |  |  |
| Total number of workers ${ }^{1}$ | 64,043 | 77,698 | 13,655 | 21.3 |
| Total absent | 3,926 | 3,683 | -243 | -6.2 |
|  | 6.1 | 4.7 | -1.4 | -23.0 |
| Total incidence rate ${ }^{2}$. ${ }^{\text {a }}$. | 3.6 | 2.6 | -1.4 | -27.8 |
| Miscellaneous reasons | 2.6 | 2.1 | -. 5 | -19.2 |
| Hours lost |  |  |  |  |
| Weekly hours usually worked | 2,693,930 | 3,276,410 | 582,480 | 21.6 |
| Weekly hours lost | 89,823 | -86,279 | -3,544 | -3.9 |
| Weekly hours lost Total inactivity rate ${ }^{3}$ | 3.3 | 2.6 | -. 7 | -21.2 |
| llinesses and injuries . | 2.1 | 1.6 | -. 5 | -23.8 |
| Miscellaneous reasons | 1.2 | 1.1 | -. 1 | 8.3 |
| Hours lost per absent worker |  |  |  |  |
| Usual weekly hours per worker | 42.1 | 42.2 | . 1 | 2 |
| Total severity rate ${ }^{4}$ | 56.1 | 57.2 | 1.1 | 2.0 |
|  | 61.4 | 61.9 | . 5 | . 8 |
| Miscellaneous reasons | 48.9 | 51.6 | 2.7 | 5.5 |
| ${ }^{1}$ Includes incorporated self-employed workers. |  |  |  |  |
| ${ }^{2}$ Number of workers absent as a percent of the total working. |  |  |  |  |
| ${ }^{3}$ Number of hours absent as a percent of the total number of hours usually worked. |  |  |  |  |
| ${ }^{4}$ Number of hours absent as a percent of the number of hours usually worked by absent workers. |  |  |  |  |

Table 2. Absence rates for full-time wage and salary workers, by industry, May 1985
[Numbers in thousands]

| Industry | Total number of workers ${ }^{1}$ | Incidence rate (Percent of workers absent) |  |  | Inactivity rate (Percent of time lost) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | Illinesses and injuries | Miscellaneous reasons | Total | Ilinesses and injuries | Miscellaneous reasons |
| Total, 16 years and over ................ Total nonagricultural wage and salary workers | 76,093 74,908 | 4.8 4.8 | 2.6 2.6 | 2.2 2.2 | 2.7 2.7 | $\begin{aligned} & 1.6 \\ & 1.6 \end{aligned}$ | $\begin{aligned} & 1.1 \\ & 1.1 \end{aligned}$ |
| Goods-producing industries | 24,854 | 4.4 | 2.7 | 1.6 | 2.5 | 1.7 | . 8 |
| Mining . ................... | 929 | 4.0 | 2.8 | 1.2 | 3.6 2.5 | 2.4 1.5 | 1.1 |
| Construction ........ | 4,817 19,108 | 4.3 4.4 | 2.4 2.8 | 1.9 1.6 | 2.5 2.4 | 1.5 1.7 | . 9 |
| Manufacturing ... | 19,108 11,778 | 4.4 4.0 | 2.8 2.6 | 1.6 1.4 | 2.4 2.2 | 1.7 1.5 | . 8 |
| Durable goods Nondurable goods | 11,778 7,330 | 4.0 5.1 | 2.6 3.2 | 1.4 2.0 | 2.2 2.9 | 1.9 | 1.0 |
| Service-producing industries | 50,054 | 5.1 | 2.6 | 2.4 | 2.8 | 1.5 | 1.3 |
| Transportation and public utilities | 6,477 | 4.8 | 2.6 | 2.2 | 3.2 | 1.8 | 1.4 |
| Wholesale and retail trade | 12,835 | 4.7 | 2.8 | 1.9 | 2.7 | 1.8 | . 9 |
| Wholesale trade | 3,322 | 3.8 5.0 | 2.2 3.0 | 1.6 2.0 | 2.4 2.8 | 1.6 1.9 | .8 .8 |
| Retail trade . | 9,513 |  | 3.0 | 2.0 | 2.8 | 1.9 | . 9 |
| Finance, insurance, and real estate | 5,326 | 4.1 | 2.1 | 2.0 | 2.0 | 1.0 | 1.0 |
| Services ${ }^{2}$ | 20,757 | 5.4 | 2.5 | 2.9 | 2.9 | 1.4 | 1.4 |
| Professional services | 14,858 | 5.8 | 2.7 | 3.1 | 3.1 | 1.5 | 1.6 |
| Educational services | 6,283 | 6.2 | 2.5 | 3.7 | 3.3 | 1.5 | 1.8 |
| Health services, including hospitals | 5,373 | 5.9 | 3.2 | 2.7 | 4.2 | 1.7 | 2.5 |
| Other professional services ...... | 2,682 | 4.6 | 2.4 | 2.2 | 2.7 | 1.3 | 1.5 |
| All other services ...................... | 5,899 | 4.5 | 2.1 | 2.5 | 2.3 | 1.2 | 1.1 |
| Public administration | 4,659 | 5.9 | 3.1 | 2.8 | 3.0 | 1.6 | 1.3 |

${ }^{1}$ Excludes incorporated self-employed workers.
NOTE: Detail may not add to totals because of rounding.
2 Includes industries, not shown separately.
have a relatively low incidence rate ( 4.3 percent). The less skilled group of operators, fabricators, and laborers have a higher incidence rate ( 5.5 percent). Among the lower skilled workers, handlers, equipment cleaners, helpers, and laborers have the highest absence rate ( 6.7 percent). These lowest skilled, low-paying jobs are often hazardous and have unpleasant working conditions, for example, fumes, noise, dirt, and heat. Given the gradual shift in technology, a substitution of high skilled manual workers for low skilled may have contributed to the reduction in absence rates.

## Variation by personal characteristics

Teenagers have the highest absence rate of any age group, as shown below in the incidence rates for men and women in various age groups:

|  | Percent of workers with an absence <br> in the reference week, May 1985 |  |  |
| :---: | :---: | :---: | :---: |
|  | Total | Men | Women |
| All ages $\ldots \ldots \ldots$. | 4.8 | 3.7 | 6.3 |
| $16-19$ years $\ldots \ldots$ | 7.0 | 6.7 | 7.4 |
| $20-24$ years $\ldots$. | 4.8 | 3.9 | 5.9 |
| $25-54$ years $\ldots$. | 4.6 | 3.4 | 6.3 |
| 55 years and over | 5.7 | 5.0 | 6.8 |

Teenagers may have a higher absence rate because they attach more importance to nonwork activities than do older workers. As workers get into their early twenties, their
absence rates decline and approach that of workers age 25 to 54 . Past age 55 , the absence rate rises again for both men and women. Health problems and health maintenance needs may affect this increase.

For women, the absence rate increases in their prime years, while for men, the rate falls. Understandably, women have a higher incidence of absences during their childbearing years, especially women with children under age 6. However, men with children have a relatively low absence rate. (See table 4.) Marital responsibilities seem to induce men toward a firmer commitment to their jobs, so that they spend less time away from work. For most women, the proportion of time lost increased with the presence of children, especially young ones. Women maintaining families alone who have three children or more have the highest absence rate. This may be because these women have no one to fall back on when their children need care during their working hours. Other family-related responsibilities, such as care of other family members, may be another factor in their relatively high absence rates.

Absence rates dropped considerably between 1980 and 1985. This is probably caused by the fallout from the recession of 1981-82 when workers with attendance problems may have been dismissed in greater numbers. This, in turn, may have induced fear of job dismissal in other workers who kept their absences low. Cost-cutting measures have also

Table 3. Absence rates for full-time wage and salary workers, by occupation, May 1985
[Numbers in thousands]

| Occupation | Total number of workers ${ }^{1}$ | Incidence rate (Percent of workers absent) |  |  | Inactivity rate (Percent of time lost) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | IIInesses and injuries | Miscellaneous reasons | Total | IIInesses and injuries | Miscellaneous reasons |
| Total, 16 years and over . . . . . . . . . . . . . . . . . . . . | 76,093 | 4.8 | 2.6 | 2.2 | 2.7 | 1.6 | 1.1 |
| Managerial and professional specialty Executive, administrative, and managerial Professional specialty | $\begin{array}{r} 19,598 \\ 9,381 \\ 10,217 \end{array}$ | $\begin{aligned} & 4.2 \\ & 3.2 \\ & 5.2 \end{aligned}$ | $\begin{aligned} & 1.9 \\ & 1.6 \\ & 2.2 \end{aligned}$ | $\begin{aligned} & 2.3 \\ & 1.6 \\ & 3.0 \end{aligned}$ | $\begin{aligned} & 2.3 \\ & 1.7 \\ & 2.8 \end{aligned}$ | $\begin{array}{r} 1.0 \\ .9 \\ 1.1 \end{array}$ | $\begin{array}{r} 1.2 \\ .8 \\ 1.6 \end{array}$ |
| Technical, sales, and administrative support Technicians and related support Sales occupations Administrative support, including clerical | $\begin{array}{r} 22,745 \\ 2,624 \\ 6,934 \\ 6,477 \\ 13,186 \end{array}$ | $\begin{aligned} & 4.9 \\ & 3.0 \\ & 3.9 \\ & 4.8 \\ & 5.6 \end{aligned}$ | $\begin{aligned} & 2.7 \\ & 2.1 \\ & 2.3 \\ & 2.6 \\ & 3.0 \end{aligned}$ | 2.2 1.7 1.6 2.2 2.6 | $\begin{aligned} & 2.5 \\ & 1.8 \\ & 2.2 \\ & 3.2 \\ & 2.9 \end{aligned}$ | $\begin{aligned} & 1.5 \\ & 1.0 \\ & 1.4 \\ & 1.8 \\ & 1.6 \end{aligned}$ | $\begin{array}{r} 1.1 \\ .8 \\ .7 \\ 1.4 \\ 1.3 \end{array}$ |
| Service occupations <br> Private household <br> Protective service <br> Service, except private household and protective | $\begin{array}{r} 7,554 \\ 279 \\ 1,345 \\ 5,930 \end{array}$ | $\begin{aligned} & 5.7 \\ & 3.6 \\ & 4.7 \\ & 6.0 \end{aligned}$ | $\begin{aligned} & 3.0 \\ & 1.1 \\ & 1.8 \\ & 3.3 \end{aligned}$ | $\begin{aligned} & 2.7 \\ & 2.5 \\ & 2.9 \\ & 2.7 \end{aligned}$ | $\begin{aligned} & 3.1 \\ & 2.2 \\ & 2.5 \\ & 3.4 \end{aligned}$ | $\begin{array}{r} 1.8 \\ .2 \\ 1.2 \\ 2.0 \end{array}$ | $\begin{aligned} & 1.4 \\ & 1.9 \\ & 1.2 \\ & 1.4 \end{aligned}$ |
| Precision production, craft, and repair . . . . . . . . . | 10,855 | 4.3 | 2.8 | 1.6 | 2.6 | 1.8 | . 8 |
| Operators, fabricators, and laborers Machine operators, assemblers, and inspectors Transportation and material moving occupations Handlers, equipment cleaners, helpers, and laborers | $\begin{array}{r} 13,897 \\ 7,006 \\ 3,619 \\ 3,272 \end{array}$ | $\begin{aligned} & 5.5 \\ & 5.3 \\ & 4.8 \\ & 6.7 \end{aligned}$ | $\begin{aligned} & 3.4 \\ & 3.3 \\ & 3.0 \\ & 4.1 \end{aligned}$ | $\begin{aligned} & 2.1 \\ & 2.0 \\ & 1.8 \\ & 2.6 \end{aligned}$ | $\begin{aligned} & 3.4 \\ & 3.0 \\ & 3.4 \\ & 4.1 \end{aligned}$ | $\begin{aligned} & 2.3 \\ & 2.2 \\ & 2.3 \\ & 2.8 \end{aligned}$ | $\begin{array}{r} 1.1 \\ .8 \\ 1.3 \\ 1.3 \end{array}$ |
| Farming, forestry, and fisheries . . . . . . . . . . . . . . | 1,444 | 3.1 | 1.3 | 1.8 | 1.6 | . 7 | . 9 |

${ }^{1}$ Excludes incorporated self-employed workers. Note: Detail may not add to totals because of rounding.
Table 4. Absence rates for full-time wage and salary workers, by marital status, sex, presence and age of children, May 1985 [Numbers in thousands]


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caused employers, particularly in manufacturing, to institute various means to hold absences down, both through incentives and disciplinary action. Reflecting these trends, the absence rates in the goods-producing sector were lower in 1985 than those in the service-producing sector, a situation that has not been observed before, at least not since 1973.

## _-FOOTNOTES -_

${ }^{1}$ Quarterly Report on Job Absence and Turnover, $2 d$ Quarter 1985 (Washington, The Bureau of National Affairs, Inc., Sept. 5, 1985).
${ }^{2}$ The situation in these 2 particular months (May 1980 and May 1985) may not be totally representative of the trend in absences over this 5 -year
period. However, separate estimates of absences based on CPS data for the 12 months of 1980 and 1985 , showed declines well in excess of 10 percent.
${ }^{3}$ J. Paul Leigh, "The Effects of Unemployment and the Business Cycle on Absenteeism," Journal of Economics and Business, May 1985, pp. 159-70.
${ }^{4}$ Peter Perl, "Work Place Conflicts Arise Over Rules on Absenteeism," The Washington Post, June 23, 1986, p. A1.
${ }^{5}$ Labour Force Sample Survey, 1983 (Luxembourg City, Luxembourg, Statistical Office of the European Communities, 1985), p. 114; Report on the Special Survey of the Labour Force Survey, February 1984 (Tokyo, Japan, Statistics Bureau, Management and Coordination Agency, 1984), pp. 58-59; The Labour Force Australia, February 1986 (Canberra, Australian Bureau of Statistics, April 1986), p. 21; The Labor Force, December 1985 (Ottawa, Statistics Canada, January 1986), p. 118; Arbetskraftsundersokninger, Arsmedetal 1985 (Stockholm, Sweden, Statistiska Centralbyran, 1985), p. 121.

## Measures to increase incomes

The vital role of women in agriculture in many parts of the developing world means that they should be assisted in rural development programs, for example, by the introduction of appropriate technology and simple farm tools to reduce the burden of their work on the land and in the home. Technological innovation and appropriate training aimed at peasant and small-holder farmers should be organized as part of extension services which are easily accessible to even the poorer segments of the rural population. The adoption of appropriate technologies will be crucial to the attainment of food self-sufficiency in the coming decade, and here again is a field in which the ILO has an important role to play in the coming years, building on experience gained so far. Other policy measures to increase agricultural production deserving of consideration include the provision of infrastructural facilities and essential public services (for example, roads, irrigation, health centers, schools); improved access to credit; and pricing and marketing policies appropriate to the maximization of the growth of output and employment in rural areas.
_The Changing World of Work: Major Issues Ahead (Report of the Director-General (Part I), International Labour Conference, 72d sess. (Washington, International Labour Organization, 1986), p. 18.

# Work at home: new findings from the Current Population Survey 

In May 1985, more than 8 million Americans reported at least 8 hours per week of home-based work; services, ranging from consulting to child care, were the most common pursuits of persons working substantial numbers of hours at home

Francis W. Horvath

For some Americans, there is no separation of gainful work between the home and the workplace. A large number of persons regularly squeeze extra hours into their workweek by performing job-related chores at home. Others have completely eliminated the trip to work by setting up businesses or performing work-for-hire while at home.

In May 1985, the Bureau of Labor Statistics made its first attempt to determine the size of the home-based work force. Along with other questions on work practices, the respondents to the May survey were asked whether: "As part of . . (the worker)'s regularly scheduled work, does . . . (he/she) do any of (his/her) work for . . . (the principal employer) at home?" Persons answering affirmatively were asked to estimate the number of hours of work done at home.

While more than 18 million people responded affirmatively, almost half of them worked at home for less than 8 hours a week. Another 770,000 were farmers or farm laborers. The remainder, nearly 8.4 million persons, had worked at home for 8 hours or more in the reference week, as part of a nonfarm job. They are the focus of most of the analysis which follows.

It should be noted that persons working at home on a second job or business were not counted among home-based

[^12]workers. "Work-at-home" as defined here pertains only to work done as part, or as an extension, of one's primary job. Of course, given this definition, it is possible that persons who regularly bring work home, such as managers reading or writing memos at home, or teachers grading papers, might consider such work to be "regularly scheduled," and will report it as home-based work.

## Earlier studies

The May survey was the first specific attempt to estimate the size of the home-based work force. Other estimates had been available from secondary sources and private studies. ${ }^{1}$ For example, in response to a special congressional request, the Census Bureau had produced a tabulation on persons working at home from the data gathered as part of the 1980 census. ${ }^{2}$ The specific source for the study was a question on methods of travel to work, to which one possible response was "worked at home." According to the data, about 2.2 million persons were identified as home-based workers. More than half ( 1.2 million) of homeworkers were self employed.

More recently, a privately conducted study was designed to study work-at-home styles. In a telephone survey, respondents were asked questions about work hours, job satisfaction, and computer usage in the home. Nearly 60 percent of the respondents cited working part-time at home as the "ideal work arrangement." ${ }^{3}$

## Who are 'homeworkers'?

Of the 17.3 million persons with any home-based work in nonfarm occupations (regardless of the number of hours reported), about 9.6 million ( 55 percent) were men. (See table 1.) While men outnumbered women in the general classification of home-based work, women who worked at home had a stronger commitment to the home as a workplace. For example, women averaged 11.1 hours per week on home-based work, while men put in 9.3 hours. About 8 percent of the women worked 35 hours or more at home, compared with 4 percent of the men. Overall, there were 60 percent more women than men who worked the equivalent of a full-time week at home.

Work at home appears to be a particularly attractive option for older persons, for whom the daily commute to work can be very tiring. Nearly one fifth of all nonfarm homebased workers working 35 hours or more weekly consisted of persons over 55 years of age, a group that accounts for only 1 in 8 of all employed workers.

The distribution of home-based work by race also showed slightly higher percentages of white workers than are found in the overall labor force. There were about 660,000 black and Hispanic workers with 8 hours or more of home-based work.

## Industrial and occupational comparisons

Much of the interest in home-based work has centered around a few key industries and occupations. For example, it is believed that a growing number of clerical workers are opting to establish their own businesses at home, having been attracted by the idea of "being one's own boss." ${ }^{4}$

| Age and sex | Total | Number reporting hours worked at home ${ }^{1}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | 8 hours or more | 35 hours or more | Mean hours |
| Total, 16 years and over | 18,082 | 17,477 | 8,978 | 1,287 | 11.0 |
| Total nonfarm workers, |  |  |  |  |  |
| 16 and over ..... | 17,313 | 16,748 | 8,404 | 965 | 10.1 |
| 25 years and over | 16,236 | 15,700 | 7,943 | 925 | 10.2 |
| 25 to 34 | 5,158 | 4,984 | 2,364 | 243 | 9.3 |
| 35 to 44 | 5,506 | 5,374 | 2,660 | 271 | 9.9 |
| 45 to 54 | 3,199 | 3,094 | 1,637 | 215 | 10.8 |
| 55 and over | 2,373 | 2,248 | 1,282 | 195 | 12.2 |
| Men, 16 years and over | 9,559 | 9,277 | 4,580 | 369 | 9.3 |
| 25 and over ....... | 9,071 | 8,799 | 4,385 | 365 | 9.4 |
| 25 to 34 | 2,727 | 2,655 | 1,220 | 63 | 8.2 |
| 35 to 44 | 3,102 | 3,023 | 1,471 | 117 | 9.2 |
| 45 to 54 | 1,794 | 1,744 | 925 | 92 | 10.0 |
| 55 and over | 1,448 | 1,377 | 769 | 93 | 11.3 |
| Women, 16 years and over | 7,754 | 7,471 | 3,824 | 596 | 11.1 |
| 25 and over .. | 7,164 | 6,900 | 3,559 | 560 | 11.3 |
| 25 to 34 | 2,431 | 2,329 | 1,144 | 181 | 10.5 |
| 35 to 44 | 2,404 | 2,350 | 1,189 | 155 | 10.7 |
| 45 to 54 | 1,405 | 1,350 | 712 | 123 | 11.8 |
| 55 and over. | 925 | 871 | 513 | 103 | 13.8 |

Table 2. Employed persons in nonagricultural industries with 8 hours or more of home-based work, by industry and sex, May 1985
[In thousands]

| Industry | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8 hours or more | 35 hours or more | 8 hours or more | 35 hours or more |
| Nonagricultural industries | 4,565 | 368 | 3,790 | 585 |
| Mining | 53 | 5 | 25 | 5 |
| Construction | 391 | 11 | 93 | 19 |
| Manufacturing | 676 | 42 | 258 | 40 |
| Durable goods | 451 | 21 | 102 | 12 |
| Nondurable goods | 225 | 21 | 156 | 29 |
| Transportation and public utilities | 247 | 16 | 115 | 20 |
| Wholesale and retail trade ..... | 799 | 45 | 494 | 51 |
| Finance, insurance, and real estate | 465 | 49 | 310 | 35 |
| Services ${ }^{1}$ | 1,757 | 193 | 2,375 | 413 |
| Public administration . | 161 | 3 | 120 | 2 |

${ }^{1}$ Excludes forestry and fisheries.

Clerical workers such as secretaries, typists, forms processors, and data entry personnel have seen a drop in the cost of capital equipment that has enabled them to set up shop at home. Declining prices for personal computers and other electronic equipment have given many persons in professional service industries, such as financial records processing and bookkeeping, an opportunity to begin a business with very low startup costs.
Table 2 presents counts of home-based workers who worked for 8 hours or more at home by major nonagricultural industry group and sex. By far the largest industry group of home-based workers is in services. This category includes educational, professional, and business and repair services, as well as such social services as child care. Nearly 60 percent of women who worked 8 hours or more at home were in the services industry, compared with only 35 percent of the men.

The longer an individual's weekly hours of home-based work, the more likely he or she is to be engaged in a services industry. More than half of men and two-thirds of women in nonagricultural industries with long hours of home-based work were in service industries.

A more detailed look at home-based work in services is presented in table 3. Business and repair services accounted for nearly 100,000 of the persons working full-time workweeks at home. This category includes a variety of establishments, such as business management and consulting services and computer and data processing services. Social services, which encompass child care, accounted for 110,000 full-time home-based workers. Another 90,000 home-based workers were in "other professional services," covering legal services, architectural services, religious organizations, and others.

Table 3 also presents counts by class of worker. It shows that among the universe of persons with 8 hours or more of home-based work in the reference week, the majority were private wage and salary workers, who may simply be bringing work home on a regular basis. However, among those

Table 3. Employed persons in the services industry with 8 hours or more of home-based work, by class of worker, May 1985 [In thousands]

| Industry | 8 hours or more |  |  |  | 35 hours or more |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Wage and salary workers |  | All other workers ${ }^{1}$ | Total | Wage and salary workers |  | All other workers ${ }^{1}$ |
|  |  | Incorporated self-employed | All other wage and salary workers |  |  | Incorporated self-employed | All other wage and salary workers |  |
| Services ${ }^{2}$ |  | 192 | 2,653 | 1,287 | 606 | 39 | 149 | 418 |
| Private households | 117 | - | 117 | 1,287 | 63 |  | 63 | , |
| Business and repair services | 679 | 67 | 255 | 357 | 97 | 11 | 10 | 76 |
| Personal services, except private household | 428 | 7 | 52 | 369 | 177 | 6 | 3 | 168 |
| Entertainment and recreational services ... | 111 | 9 | 35 | 67 | 20 | 2 | 4 | 14 |
| Professional services | 2,796 | 108 | 2,194 | 494 | 250 | 20 | 70 | $161$ |
| Hospitals | 115 | - | 115 | - | 2 | - | 2 | - |
| Health services, except hospitals | 198 | 39 | 100 | 59 | 26 | 4 | $11$ | $10$ |
| Educational services .... | 1,545 | - | 1,510 | 35 | 19 | - | 15 | $4$ |
| Social services | 234 | $11$ | 108 | $115$ | $110$ | $6$ | $19$ | $85$ |
| Other professional services . . . . . . . | 705 | 58 | 363 | 284 | 92 | 9 | 22 | 61 |

${ }^{1}$ Includes the self-employed (unincorporated) and unpaid family workers.
NOTE: Dash indicates zero or rounds to zero.
${ }^{2}$ Excludes forestry and fisheries.
who worked 35 hours or more, close to 70 percent were self-employed in home-based, unincorporated businesses. Fewer than 10 percent of all full-time home-based workers were self-employed but incorporated.

It is not possible to determine from the May 1985 data how many persons working at home use a computer in their work, or how many persons "telecommute" to their jobs. ${ }^{5}$ No specific questions on this topic were asked as part of the survey supplement. However, some insight about the effects of technological change on work practices can be gained by examining the distribution of home-based work by occupation. (See table 4.) One of the largest occupational groups of home-based workers is in "financial records processing." This category includes bookkeepers, accountants, and audi-

Table 4. Employed persons working at home, by major and selected nonfarm occupations and hours worked at home, May 1985
[Numbers in thousands]

| Occupation | Total | Number reporting hours worked at home ${ }^{1}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Total | 8 hours or more | 35 hours or more | Mean hours |
| Major occupation |  |  |  |  |  |
| Total | 17,313 | 16,748 | 8,404 | 965 | 10.1 |
| Managerial and professional speciality | 9,468 | 9,182 | 4,373 | 272 | 8.8 |
| Technical, sales, and administrative support | 4,979 | 4,827 | 2,427 | 256 | 9.9 |
| Service occupations | 1,074 | 1,025 | 715 | 326 | 21.7 |
| Precision production, cratt, and repair | 1,186 | 1,138 | 578 | 60 | 9.9 |
| Operators, fabricators, and laborers . | 582 | 552 | 287 | 50 | 11.2 |
| Selected occupations |  |  |  |  |  |
| Engineers | 371 | 351 | 158 | 9 | 7.5 |
| Mathematical and computer scientists . . . | 185 | 183 | 94 | 3 | 7.8 |
| Teachers . . . . . . . . . . . . . . . . . . . . . | 2,949 | 2,866 | 1,301 | 14 | 7.9 |
| Secretaries, stenographers, and typists . . | 406 | 397 | 246 | 35 | 11.5 |
| Financial records processing .......... | 498 | 485 | 293 | 55 | 13.4 |
| Private household . . . . . . . . . . . . . . . | 141 | 128 | 109 | 63 | 28.9 |
| Personal services | 592 | 569 | 462 | 243 | 27.3 |

[^13]tors, as well as persons operating billing, posting, and calculating machines.

The ranking of some occupations by incidence of homebased work might be surprising. This may be related to the fact that the May 1985 survey measured those who bring work home as well as those who have formally set up a home-based workplace. The difference between merely bringing some work home and doing all or most of one's work at home is often reflected in the number of hours worked at home. For example, teachers, who might grade papers or prepare lectures at home, accounted for 1.3 million of the 8.4 million nonfarm workers with 8 or more hours of such work, but virtually none of the teachers accumulated 35 or more hours at home. Similarly, while almost 40 percent of all employed managerial and professional specialty workers reported regular homework, only 270,000 of them accumulated full-time workweeks while at home. As noted earlier, a very large proportion of those with 35 or more hours of home-based work were in service occupations, and in particular, personal services.

## Formalized arrangements rare

In standard classifications, the Bureau of Labor Statistics divides employed workers into three class-of-worker cate-gories-wage and salary, self-employed, and unpaid family workers. For purposes of comparability with the Bureau's establishment data, those workers who are the nominal employees of corporations which they own-the "selfemployed incorporated"-are treated as wage and salary workers. In our analysis, however, these workers are displayed separately, leaving an "all other wage and salary workers" category that consists entirely of persons employed by someone else.

Table 5 displays a breakdown of home-based workers according to this classification. It suggests that formalized business arrangements are rare for the typical home-based worker. Fewer than 7 percent of those working full time at

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Table 5. Percent distribution of employed persons with 8 hours or more of home-based work, by class of worker and sex, May 1985

| Class of worker | Total |  | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8 hours or more | 35 hours or more | 8 hours or more | 35 hours or more | 8 hours or more | 35 hours or more |
| Total (in thousands) | 8,978 | 1,287 | 5,019 | 634 | 3,959 | 653 |
| Percent distribution |  |  |  |  |  |  |
| Total | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Agriculture . . . . . . . | 6.9 | 25.9 | 90.5 | 41.8 | 4.2 | 10.4 |
| Self-employed unincorporated | 5.1 | 21.5 | 7.4 | 37.4 | 2.2 | 6.1 |
| Nonagriculture . .... | 93.1 | 74.0 | 91.0 | 58.0 | 95.7 | 89.6 |
| Wage and salary . . | 66.2 | 26.4 | 65.6 | 23.8 | 67.0 | 29.1 |
| Self-employed incorporated | 7.4 | 6.4 | 9.9 | 8.5 | 4.1 | 4.4 |
| Private wage and salary | 40.6 | 17.8 | 42.6 | 13.4 | 38.1 | 22.1 |
| Government . . . . | 18.3 | 2.2 | 13.1 | 1.7 | 24.9 | 2.5 |
| Self-employed unincorporated | 25.8 | 46.2 | 25.2 | 34.2 | 26.5 | 57.9 |
| Unpaid family workers | 1.1 | 1.4 | . 2 | - | 2.2 | 2.8 |

Note: Dash indicates zero or rounds to zero
home in nonagricultural jobs were incorporated. For agriculture and nonagriculture combined, about 2 of every 3 home-based workers who worked 35 hours or more were operating as unincorporated self-employed businesspersons.

## Children and home-based work

Home-based work offers a chance for some persons with children to more effectively combine the roles of parent and worker. Elimination of commuting and child-care expenses can be a strong incentive for households with young children to experiment with home-based work. About 600,000 married mothers of children under 6 years of age reported some home-based work. (See table 6.) More than one-fifth of such women worked at home for 35 or more hours as part of their contribution to the job market.

In general, there were slight differences between women and men working in homes with young children. However, among nonfarm workers with 35 hours or more of homebased work, there were three times as many women with very young children as there were men.

## Working exclusively at home

Using responses from the regular portion of the Current Population Survey as well as those from the May supplement, it is possible to compare the hours worked at home with all work hours during the previous week and thus identify persons working "entirely" at home. The classification showed 2.2 million persons working exclusively at home in May 1985. (See table 7.) About 390,000 of those working exclusively at home were in farming occupations, leaving almost 1.9 million persons as the home-based work force. About two-thirds of these were women.

As might be expected, the hours of persons working solely at home were far higher than the overall averages for
home-based work. Where work was conducted exclusively within (or from) one's home, men averaged 41.1 hours, while women totaled 27.7 hours. About half of the persons whose work was entirely home based were in service industries, such as professional services, business and repair services, and personal services. Only about 100,000 of the persons with home-based work in professional specialty occupations, which includes computer programming as a subset, worked entirely at home.

## Restricted industries

In the 1940's, following a series of public hearings, the Labor Department moved to restrict home-based work in a number of narrowly defined industries. This recently criticized and reevaluated "patchwork" of regulations was directed toward those activities which had been found to be in violation of the Fair Labor Standards Act. The seven industries were: women's apparel, jewelry, gloves and mittens, knitted outerwear, buttons and buckles, handkerchiefs, and embroidery. Homework in those industries was permitted for individuals meeting specific certificate requirements. The recent arguments surrounding home-based work have crystalized around these apparel and accessory industries. ${ }^{6}$

The May 1985 data do not allow an accurate determination of the number of persons whose home-based work is in the various restricted industries. The industrial classification used in tabulating these data no longer coincides with the 1940's-based industry definitions upon which the restrictions were based. Some of the restricted industries extend across multiple classifications in the current data, or fall into a highly aggregated "all other" category, which includes industries in addition to the restricted one. However, it is possible to create an upper-bound estimate of the total number of persons affected by the restrictions by adding up workers in every detailed industry classification which overlaps with the restricted industries. Using the finest available breakdown of industries, ${ }^{7}$ it was estimated that the maximum number of persons working 8 hours or more at home in restricted industries could not exceed 125,000 , and the number working 35 hours or more was below 20,000. About

Table 6. Employed married persons with 8 hours or more of home-based work, by presence and age of children, and sex, May 1985
[Numbers in thousands]

| Presence and age of children | Men |  | Women |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 8 hours or more | 35 hours or more | 8 hours or more | 35 hours or more |
| Total | 3,868 | 505 | 2,658 | 504 |
| Total nonfarm | 3,514 | 277 | 2,549 | 457 |
| Without children under age 18 | 1,519 | 142 | 1,162 | 198 |
| With children under age 18 | 1,995 | 135 | 1,387 | 259 |
| Children age 6 to 17, none younger Children age 14 to 17 , none | 1,153 | 90 | 794 | 128 |
| younger ............ | 372 | 26 | 272 | 52 |
| Children age 6 to 13 | 781 | 64 | 522 | 76 |
| Children under age 6 | 842 | 45 | 594 | 132 |

Table 7. Employed persons working entirely at home by sex, occupation, industry, and hours worked at home, May 1985

| Sex, occupation, and industry | Total | 8 hours or more | 35 hours or more | Mean hours |
| :---: | :---: | :---: | :---: | :---: |
| Total, 16 years and over | 2,243 | 1,992 | 1,067 | 32.1 |
| Men | 749 | 709 | 476 | 41.1 |
| Women | 1,494 | 1,284 | 591 | 27.7 |
| Occupation |  |  |  |  |
| Managerial and professional specialty | 553 | 451 | 211 | 28.5 |
| Technical, sales, and administrative support | 593 | 482 | 210 | 25.4 |
| Service occupations | 504 | 478 | 288 | 34.0 |
| Precision production, craft, and repair | 142 | 121 | 55 | 27.0 |
| Operators, fabricators, and laborers | 82 | 76 | 38 | 28.5 |
| Farming, forestry, and fishing | 390 | 385 | 266 | 47.6 |
| Industry |  |  |  |  |
| Agriculture | 421 | 403 | 277 | 45.7 |
| Nonagricultural industries | 1,823 | 1,589 | 790 | 29.0 |
| Mining . | 16 | 14 | 5 | (1) |
| Construction | 81 | 66 | 24 | 25.0 |
| Manufacturing | 151 | 140 | 65 | 28.5 |
| Durable goods | 67 | 64 | 28 | (1) |
| Nondurable goods | 83 | 76 | 37 | 25.9 |
| Transportation and public utilities | 54 | 48 | 33 | (1) |
| Wholesale trade | 49 | 42 | 14 | (1) |
| Retail trade | 202 | 151 | 63 | 23.5 |
| Finance, insurance, and real estate | 111 | 102 | 64 | 34.0 |
| Services . . . . . . . | 1,128 | 1,000 | 514 | 29.9 |
| Public administration | 25 | 22 | 3 | (1) |

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

90,000 of these persons were in either the apparel indus-try-which includes both restricted and unrestricted workor the jewelry industry. The total was evenly divided among
men and women. Because this was the first time this survey has been conducted, it is not possible to determine if this number of homeworkers has been increasing or decreasing.

${ }^{1}$ Margrethe Olson, Overview of Work-at-Home Trends in the United States (New York, New York University, August 1983.)
${ }^{2}$ U.S. Bureau of the Census, unpublished data prepared for the House Subcommittee on Employment and Housing, April 1986.
${ }^{3}$ Electronic Services Unlimited, New York, NY, conducted a National Work-at-Home telephone survey in 1986 to determine work habits, buying needs, and preferences of home-based workers.
${ }^{4}$ For a thorough review of home-based clerical work, see chapter 7, "Home Based Office Work," Automation of America's Offices, ota-cit-287 (Washington, Office of Technology Assessment, December 1985); or National Research Council, Office Workstations in the Home (Washington, National Academy Press, 1985).
${ }^{5}$ Joanne H. Pratt, "Home Teleworking: A Study of its Pioneers," Technological Forecasting and Social Change, vol. 25, 1984, pp. 1-14.
${ }^{6}$ For a complete listing of Federal restrictions, see Federal Register "Department of Labor 29 CFR Part 530, Employment of Homeworkers in Certain Industries, Final Rule, November 5, 1984," and "Regulations, Part 530: Employment of Homeworkers in Certain Industries (U.S. Department of Labor, Wage and Hour Division, wh Publication 1026, March 1980). For a viewpoint of organized labor on the issue of computer homework, see "AFL-CIO Resolution on Computer Homework" in Office Workstations in the Home.
${ }^{7}$ The estimate was created using a list matching restricted industries with census detailed industry codes, provided by Mike Ginley, Wage and Hour Division, U.S. Department of Labor.

## Overtime work: an expanded view

More comprehensive survey covers overtime hours even of persons who do not exceed the traditional 40-hour week; 1.6 million of them received premium pay in 1985

## Darrell E. Carr

About 10 percent of all American workers received overtime pay for hours worked in a typical week in May 1985. The great majority of them worked more than the traditional 40 hours that week; however, some received overtime pay even though their workweek did not exceed 40 hours.
Prior to 1985, data on overtime work were limited to employees who worked more than 40 hours a week at a single job. ${ }^{1}$ In addition to these data, the May 1985 Current Population Survey also collected information on overtime work performed by persons with 40 or fewer hours of work in the reference week. An additional feature of the 1985 data is that they are not limited to persons holding only one job.
There were several reasons for extending the survey questions on overtime to workers with 40 or fewer hours of work in a week. First, these workers constitute a majority of those in wage and salary jobs. ${ }^{2}$ The following tabulation shows the distribution of wage and salary workers, by hours, May 1985 (numbers in thousands):

| Total, all schedules | 90,892 |
| :---: | :---: |
| 41 hours or more | 24,386 |
| 40 hours or fewer | 66,506 |
| 40 hours | 38,477 |
| 39 hours or fewer | 28,028 |

Second, in some jobs, by custom or agreement, the standard full-time workweek is well below 40 hours. Finally, regardless of the length of the workweek, some workers receive

[^14]overtime pay for working more than a set number of hours per day. The inclusion of these additional workers in the analysis of overtime pay sheds new light on the topic.

## Why use overtime?

There were 10.5 million persons with some overtime work in the reference week for the May 1985 survey. They labored an average of 9 hours at premium rates (generally time-and-one-half), for a total of about 94 million hours. Thus, the total dollar costs of such premiums to employers ran into millions. Why would employers incur these additional expenses?

Over the very short term, employers use overtime hours to fill rush orders, to meet seasonal peaks in demand, and to maintain production schedules despite employee absences and mechanical failures. But overtime work is also used when employers are unable to hire workers with critical skills, or when they are simply reluctant to hire new workers because of uncertainties over future product demand and the labor requirements that go with it.

Some employers may even schedule overtime work on a regular basis, rather than hire additional workers, even when workers are readily available and product demand is fairly constant. Employers tend to use this approach, according to Ronald G. Ehrenberg, when they perceive the costs of overtime premiums to compare favorably with the quasi-fixed employee-related expenses-such as sick leave, annual vacations, paid holidays, health insurance, and pension funding-which they would incur if they expanded their payrolls. ${ }^{3}$

Does the use of overtime keep unemployment higher than it would otherwise be? In this regard, it should be noted that the framers of the Fair Labor Standards Act of 1938 believed that overtime work reduced the number of new hires, thereby keeping individuals jobless and general unemployment levels high. Therefore, they incorporated a provision into the Act which required time-and-one-half pay for all hours worked in excess of 40 a week in covered jobs. This measure was clearly designed to discourage the use of overtime, to encourage the hiring of more workers, and thus to reduce unemployment. ${ }^{4}$

| Characteristic | Total wage and salary workers ${ }^{1}$ | Received overtime pay |  | Percent distribution by rate of pay received |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number ${ }^{2}$ | Percent | Time and-one-half | Other rates |
| Age and marital status |  |  |  |  |  |
|  |  |  |  |  |  |  |
| over $\ldots \ldots \ldots .$. 16 to $24 \ldots \ldots .$. | 90,892 18,869 | 10,528 2,137 | 11.6 | 91.8 | 8.2 |
| 16 to $24 \ldots \ldots \ldots$ | 18,869 | 2,137 | 11.3 | 93.3 | 6.7 |
| 25 to 34. | 27,345 | 3,893 | 14.2 | 91.6 | 8.4 |
| 35 to 44. | 20,354 | 2,310 | 11.3 | 91.1 | 8.9 |
| 45 to 54 55 and over | 13,451 | 1,339 | 10.0 | 91.3 | 8.7 |
| 55 and over. | 10,873 | 850 | 7.8 | 91.9 | 8.1 |
| Men, 16 years and over | 49,449 | 7,420 | 15.0 | 91.6 | 8.4 |
| 16 to $24 . . . . . . .$. . | 9,942 | 1,412 | 14.2 | 93.0 | 7.0 |
| 25 to $34 \ldots \ldots . .$. | 15,164 | 2,833 | 18.7 | 91.7 | 8.3 |
| 35 to 44. | 11,021 | 1,578 | 14.3 | 90.9 | 9.1 |
| 45 to $54 . .$. | 7,381 | 949 | 12.9 | 90.1 | 9.9 |
| 55 and over | 5,942 | 647 | 10.9 | 91.7 | 8.3 |
| Single Married, spouse present | 13,308 | 1,599 | 12.0 | 92.2 | 7.8 |
|  | 31,658 | 5,089 | 16.1 | 91.5 | 8.5 |
| Widowed, divorced, and separated. | 4,484 | 732 | 16.3 | 91.2 | 8.8 |
| Women, 16 years and |  |  |  |  |  |
| 16 to 24 | 8,927 | 724 | 8.1 | 93.6 | 6.4 |
| 25 to $34 \ldots \ldots \ldots$. | 12,181 | 1,059 | 8.7 | 91.4 | 8.6 |
| 35 to $44 \ldots \ldots \ldots$. | 9,333 | 732 | 7.8 | 91.5 | 8.5 |
| 45 to $54 .$. | 6,071 | 389 | 6.4 | 94.3 | 5.7 |
| 55 and over | 4,931 | 202 | 4.1 | 92.5 | 7.5 |
| Single | 10,777 | 783 | 7.3 | 91.6 | 8.4 |
| Married, spouse present | 22,314 | 1,486 | 6.7 | 92.3 | 7.7 |
| Widowed, divorced, and separated . | 8,352 | 839 | 10.0 | 93.2 | 6.8 |
| Race and Hispanic origin |  |  |  |  |  |
| White, 16 years and |  |  |  |  |  |
| over | 78,765 | 9,381 | 11.9 | 91.9 | 8.1 |
| Men ... | 43,352 | 6,672 | 15.4 | 91.4 | 8.6 |
| Women ..... | 35,413 | 2,709 | 7.6 | 93.2 | 6.8 |
| Black, 16 years and |  |  |  |  |  |
| Men . . . . . . . . | 4,771 | 622 | 13.0 | 92.9 | 7.1 |
| Hispanic origin, 16 years |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Men . . . . . . . . . . . | 3,528 | 473 | 13.4 | 95.6 | 4.4 |
| Women | 2,314 | 155 | 6.7 | 92.7 | 7.3 |

[^15]During the early sixties, the causal relationship between overtime and unemployment was asserted again. The 1964 Economic Report of the President linked the heavy use of overtime in some industries with curtailed job opportunities, and proposed legislation that would increase the premium rate for overtime work from time-and-one-half to doubletime. ${ }^{5}$ However, the proposed legislation was not enacted.
Some economists, in the meantime, have played down the impact of overtime work on unemployment. For example, Ehrenberg found, first of all, that an overtime rate of time-and-one-half was not a sufficient penalty to deter employers from using overtime instead of hiring new workers, particularly where the fringe benefit costs (fixed costs not related to hours worked) are comparably high. Second, he calculated that while an increase in overtime rates to doubletime would further reduce overtime hours, the reduction would not translate into a significant decline in the level of unemployment. ${ }^{6}$
In a 1977 followup study, which expanded upon Ehrenberg's earlier work on the effect of overtime on unemployment, Joyce Nussbaum and Donald Wise concluded: "Both theoretical and statistical analysis confirmed the hypothesis that an increase in the overtime premium would cause a reduction in average annual overtime hours. However, the hypothesis that this reduction in overtime hours would be compensated for by a commensurate increase in employment was not supported." 7
These researchers also concluded that the increase in the number of jobs that would result from lifting the overtime rates from time-and-one-half to double-time would be small. They noted that the increase in the potential gains in jobs must be weighed against other consequences-lower income for the persons previously working overtime, a possible reduction in output, and a rise in prices. ${ }^{8}$

## Who works overtime?

Men, 25 to 34 years of age, are the workers most likely to put in extra hours at overtime rates. Nearly one-fifth of them, regardless of the total number of hours they reported, had been paid some overtime premiums for work performed in the reference week. (See table 1.) Women were about half as likely as men to report paid overtime work.

Age and marital status also play a role in one's probability of working at overtime rates. Among both men and women, the likelihood of working overtime was relatively low for workers in the 16 - to 24 -year-old group, increased for the 25 - to 34 -year-old group, and declined progressively thereafter for each age group. The effect of marital status on the probability of working overtime was different for men and women. Married men were more likely to work overtime than single men. For women, the situation was reversed: married women, probably because of their household responsibilities, were less likely to work overtime than single women. Actually, the women most likely to work overtime were those in the "divorced, widowed, or separated" group. (See table 1.)

Table 2. Total wage and salary workers, those who received overtime pay, and the number of overtime hours paid, by occupation and industry, May 1985
[Numbers in thousands]

| Occupation and industry | Total wage and salary workers ${ }^{1}$ | Received overtime pay |  | Percent receiving overtime pay for - |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number ${ }^{2}$ | Percent | 1 to 8 hours | 9 to 15 hours | 16 hours and over |
| Total, 16 years and over | 90,892 | 10,528 | 11.6 | 63.8 | 21.8 | 14.3 |
| Occupation |  |  |  |  |  |  |
| Managerial and professional specialty | 21,265 | 1,268 | 6.0 | 62.7 | 25.9 | 11.4 |
| Technical, sales, and administrative support | 28,421 | 2,709 | 9.5 | 75.3 | 17.0 | 7.8 |
| Service occupations . . . . . . . . . | 12,607 | 785 | 6.2 | 71.2 | 15.3 | 13.5 |
| Precision production, craft, and repair | 11,130 | 2,441 | 21.9 | 57.6 | 22.9 | 19.5 |
| Operators, fabricators, and laborers | 15,474 | 3,201 | 20.7 | 58.0 | 24.5 | 17.5 |
| Farming, forestry, and fishing | 1,995 | 124 | 6.2 | 51.6 | 38.7 | 9.7 |
| Industry |  |  |  |  |  |  |
| Agriculture | 1,557 | 88 | 5.7 | 43.2 | 40.9 | 15.9 |
| Private nonagricultural industries | 73,544 | 9,447 | 12.8 | 63.5 | 21.9 | 14.7 |
| Mining . . . . . . . . . . . . . . . | 913 | 254 | 27.8 | 42.2 | 20.1 | 37.8 |
| Construction | 4,789 | 755 | 15.8 | 53.0 | 25.8 | 21.2 |
| Manufacturing . .... | 19,407 | 3,887 | 20.0 | 60.8 | 23.7 | 15.5 |
| Transportation and public utilities | 5,458 | 873 | 16.0 | 57.3 | 25.7 | 17.0 |
| Wholesale and retail trade ..... | 18,611 | 1,978 | 10.6 | 70.6 | 19.2 | 10.2 |
| Finance, insurance, and real estate | 5,708 | 386 | 6.8 | 78.4 | 13.9 | 7.7 |
| Services | 18,620 | 1,313 | 7.1 | 71.1 | 18.2 | 10.8 |
| Government . | 15,791 | 993 | 6.3 | 69.0 | 19.6 | 11.4 |

${ }^{1}$ Data refer to wage and salary workers, excluding the incorporated self-employed, who were
2 Includes a small number of persons who did not report the number of overtime hours paid. at work during the survey week.

Whites were somewhat more likely to work at overtime rates than blacks or Hispanic origin workers. But, regardless of race or Hispanic origin, women were only half as likely as men to work overtime.

Occupation and industry. Among the various occupational groups, the highest proportion of workers reporting some work at overtime rates was in the precision production, craft, and repair group. About 22 percent of the 11.1 million members of this group had received premium rates for some of the hours worked during the May 1985 survey week. (See table 2.) Following closely behind at 20.7 percent were operators, fabricators, and laborers. Together, these two occupational groups accounted for more
than half of the 10.5 million workers with some overtime earnings.

The proportion of workers with overtime earnings was much smaller among other occupational groups. For example, of the workers in the managerial and professional specialty occupations, only 6 percent reported paid overtime work. For the most part, these occupations are exempt from the overtime pay provisions of the Fair Labor Standards Act which, as of 1983, applied to an estimated 56 million nonsupervisory jobs.

In terms of industry concentration, overtime work was most common in mining, where 27 percent of the workers reported receiving premium pay in May 1985. In manufacturing, the proportion was 20 percent. Although fewer than

Table 3. Total wage and salary workers, those who received overtime pay, and the number of overtime hours paid, by length of the workweek, May 1985
[Numbers in thousands]

| Length of the workweek | Total wage and salary workers ${ }^{1}$ | Received overtime pay |  | Percent receiving overtime pay for - |  |  | Mean overtime hours paid |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number ${ }^{2}$ | Percent | 1 to 8 hours | 9 to 15 hours | 16 hours and over |  |
| Total, 16 years and over | 90,892 | 10,528 | 11.6 | 63.8 | 21.8 | 14.3 | 9.0 |
| Worked 41 hours or more | 24,386 | 8,926 | 36.6 | 60.4 | 23.6 | 16.0 | 9.6 |
| On one job . . . . . . . | 21,421 | 8,416 | 39.3 | 60.3 | 23.5 | 16.2 | 9.6 |
| On two jobs or more | 2,965 | 510 | 17.2 | 62.1 | 25.6 | 12.4 | 9.6 |
| Worked 40 hours or fewer | 66,506 | 1,601 | 2.4 | 83.3 | 11.7 | 5.0 | 6.0 |
| Worked 40 hours | $38,477$ | 880 | 2.3 | 79.4 | 14.6 | 6.0 | (3) |
| Worked 39 hours or fewer | 28,028 | 722 | 2.6 | 87.8 | 8.2 | 4.0 | (3) |
| ${ }^{1}$ Data refer to wage and salary workers, excluding the incorporated self-employed, who were at work during the survey week. |  | 2 Includes a small number of persons who did not report the number of overtime hours paid. |  |  |  |  |  |
|  |  | ${ }^{3}$ Not available. |  |  |  |  |  |

one-fifth of all workers are now employed in manufacturing, the industry accounted for about two-fifths of those with paid overtime work in May 1985. The construction industry also had a relatively high proportion of workers ( 15.8 percent) reporting some overtime earnings. In contrast, in agriculture and such industries as finance, insurance, and real estate, government, and services, the proportion of employees with overtime work did not exceed 10 percent, and was generally much lower.

Hours worked. As might be expected, the great majority of persons receiving some overtime pay worked more than the 40 -hour standard workweek. The following tabulation shows the number of wage and salary workers by hours worked and by the number and proportion receiving some overtime pay, May 1985 (numbers in thousands):

|  | Received overtime <br> pay |  |
| ---: | :---: | :---: |
|  | At work | Number |
| Percent |  |  |
| Total, all schedules $\ldots \ldots . .90,892$ | 10,528 | 11.6 |
| Worked 41 hours or more $\ldots .24,386$ | 8,926 | 36.6 |
| Had one job only .......21,421 | 8,416 | 39.3 |
| Had two jobs or more $\ldots .2,965$ | 510 | 17.2 |
| Worked 40 hours or fewer $\ldots 66,506$ | 1,601 | 2.4 |

About 24.4 million persons reported having worked more than 40 hours in the May 1985 survey week. The great majority of these workers ( 21.4 million) worked at only one job. Our major interest-and the concern of the Fair Labor Standards Act-lies with this group. About two-fifths of
them reported they had received overtime pay. This is about equal to the percentage of workers with overtime pay found in previous surveys of workers on long workweeks. As for the other three-fifths-those working more than 40 hours but not receiving any overtime pay-they appear to be largely in jobs which did not fall under the provisions of the Act. They were concentrated in managerial, professional, technical, sales, and administrative support jobs, where the payment of overtime premiums for hours worked in excess of 40 is not widely practiced.

The workers receiving premium pay for having labored beyond the 40 -hour standard reported an average of 9.6 hours of overtime work. (See table 3.) Nearly two-thirds of them had put in 8 hours or fewer of overtime work. Of the remainder, most reported 9 to 15 hours of overtime; only a small minority- 16 percent-reported 16 hours or more.

Even fewer hours of overtime were put in by those reporting the receipt of overtime pay even though their workweek had not exceeded the 40 -hour standard. These persons worked an average of 6 hours at overtime premiums. More than four-fifths of them reported 8 or fewer hours for which they had collected overtime pay.

Time-and-one-half was by far the predominant rate of pay for overtime work in 1985. In fact, of the 10.5 million workers with some overtime earnings in the May survey, about 9.5 million, or more than 90 percent, said they were paid "time-and-one-half." Only about 200,000 reported receiving "double-time." Of the remainder, some reported a "graduated rate," but most responses were combined into an "all other" category.
$\qquad$
FOOTNOTES

[^16]American Bar Association, 1951), p. 6.
${ }^{5}$ T. Aldrich Finegan, "Can a Case Be Made for Discourging Overtime?" in William G. Bowen, ed., Labor and the National Economy (New York, W.W. Norton and Co., Inc., 1965), p. 174.
${ }^{6}$ Ehrenberg, Fringe Benefits, p. 1.
${ }^{7}$ Joyce M. Nussbaum and Donald E. Wise, "The Employment Impact of the Overtime Provisions of the FLSA" (U.S. Department of Labor, 1977), Bibliographic Data Sheet.
${ }^{8}$ Nussbaum and Wise, "The Employment Impact," p. 123.

# Preferred hours of work and corresponding earnings 

> Most workers are satisfied with the number of hours they currently work, although about 1 of 4especially young people and low earnerswould prefer more hours and more money; very few would trade income for leisure time

Susan E. Shank

If given a choice of working the same, fewer, or more hours at the same rate of pay, most employees would prefer the same number of hours. An additional one-fourth would prefer to work more hours and earn more money, while 8 percent would choose to work fewer hours and earn proportionately less money. This finding that well over half of all workers are satisfied with their present hours and pay is based on information obtained from a new question on the May 1985 supplement to the Current Population Survey (CPS), and is consistent with results obtained from similar questions asked by Katona and others in 1966 and by Louis Harris and Associates in $1978 .{ }^{1}$

The degree of satisfaction with current hours and pay rises steadily with age. It is also positively related to the number of hours worked and the weekly earnings level. The "more hours and more money" option appeals especially to young people, many of whom are working only part time, and its popularity declines steadily with age. A large proportion of minority workers, especially men, would also prefer to work more hours and earn more money.

Very few employed persons wanted to work fewer hours and earn correspondingly less money. However, women were more likely than men to prefer reduced hours, even

[^17]though it meant lower earnings. Also, the proportion choosing this alternative increased with age to a peak in the 35to 44-age group.

The new CPS question asked for employee preferences on hours of work and corresponding earnings-given the same rate of pay. This question was last on the supplement because it differs significantly from other labor force questions, which focus on a person's activity and emphasize much more objective behavior. The question asked:

## If you had a choice, would you prefer to work:

The same number of hours
and earn the same money?
Fewer hours at the same rate
of pay and earn less money?
More hours at the same rate
of pay and earn more money?
Interviewers asked this question directly of the respon-dent-unlike other questions where a responsible person in the household could respond for all other household members. Self-response was required because preference is inherently individual and subjective. As a result, information was not obtained for approximately 22 percent of all employed persons. Nonresponse was higher for men than for women, and was substantially higher for teenagers and young adults than for persons age 25 and over. These were
the persons less apt to be at home during the day and early evening hours when most interviews are conducted.
In spite of the difficulty in contacting individual respondents, answers were obtained from 8 of 10 wage and salary workers age 25 and over. In this article, distributions of persons wanting the same, fewer, or more hours and corresponding pay are based on the total who reported such preferences. Also, the data pertain only to wage and salary workers (excluding incorporated self-employed persons).

Although the following sections analyze workweek preferences separately by various demographic and job characteristics, it is important to note that many of these characteristics tend to occur simultaneously. For example, young people often work relatively few hours at low rates of pay and express a strong preference for more hours and more money. It should also be noted that preferences about work hours are already reflected, to some degree, in the jobs workers currently hold. This is particularly true for experienced adult workers who presumably have more control over their work schedules than do young people. The analysis of preferences by actual hours at work and by earnings focuses on the 25 - to 54 -age group in order to exclude those age categories where transition into and out of the labor market have a major impact on hours.

## Effect of worker and job characteristics

Preferences about hours and pay differed by age and gender, as well as by present earnings level and actual hours worked. Correlations between workweek preferences and various worker and job characteristics were generally in the expected direction, although some of the magnitudes were surprising. For example, as weekly earnings rose, so did both the proportion of workers expressing satisfaction with their current schedules and the proportion opting for fewer hours and less money. However, it is noteworthy that relatively few men expressed a preference for fewer hours and less pay. Even among those who earned $\$ 1,000$ or more per week, only 10 percent selected this alternative.

Age and gender. Almost two-thirds of all workers expressed satisfaction with their present hours and pay. This proportion rose steadily with age-from about 40 percent in the teen years to 80 percent for workers 55 and over. (See table 1.) Many older workers, especially those age 65 and over, voluntarily work part time, which contributes to the high degree of satisfaction with their present workweek.

While the proportion wanting to work the same hours increased with age, the percentage desiring more hours moved in the opposite direction. Slightly more than half of

Table 1. Workweek and pay preference of employed persons by selected characteristics, May 1985
[Numbers in thousands]


the teenagers-many of whom work part time at low wages-said they wanted more hours and pay, but relatively few older workers wanted more hours. These differences reflect factors such as older persons' greater control over their work schedules, their higher earnings, and less desire for change.

The proportion preferring fewer hours and less pay was small in all age groups. Of the minority who wanted to change their schedules, more hours were preferred 4 to 1 over fewer hours. Only 4 percent of all workers under age 25 would like the fewer hours alternative. Even in the central age groups, where this option was most popular, fewer than 10 percent preferred it.

Women were more likely than men to prefer fewer hours and less pay. In the 25 - to 54 -age group, where child care and other household responsibilities are greatest, about 10 percent of the women and 6 percent of the men wanted fewer hours. The proportion of women preferring this option then declined to about 7 percent in the 55 and over age group. In contrast, the proportion of men wishing to work fewer hours rose with age until the mid-thirties, but then held steady at about 7 percent for subsequent age groups.

Men preferred to work longer hours somewhat more frequently than women. This difference was most evident in the young adult years, when household formation and spending for consumer goods is high. However, the proportions preferring to work more hours declined with age, and in the 45 and over age groups were virtually the same for women and men. In fact, for older workers there was little difference between the preferences of men and women. Approximately 80 percent of all workers 55 years and over were satisfied with their hours; about 13 percent preferred longer workweeks, while 7 percent opted for fewer hours.

Whites, blacks and Hispanics. Satisfaction with current hours and pay was greater for whites than minorities, with this difference most apparent among men. (See table 1.) The relatively low satisfaction level for both blacks and Hispanics is associated with high proportions wanting more hours and more money. Approximately 4 of 10 black and Hispanic

Table 2. Workweek and pay preference of 25- to 54-year-old wage and salary workers, by actual hours at work, May 1985
[Percent distribution]


Table 3. Workweek and pay preference of wage and salary workers, by occupation and industry, May 1985 [Percent distribution]

| Occupation or industry | Same hours, same money | Fewer hours, less money | More hours, more money |
| :---: | :---: | :---: | :---: |
| Occupation |  |  |  |
| Managerial and protessional specialty | 72.3 | 9.7 | 18.0 |
| Technical, sales, and administrative support | 66.1 | 8.3 | 25.6 |
| Service occupations ............. | 56.6 | 4.5 | 38.9 |
| Precision production, craft, and repair | 63.5 | 6.4 | 30.1 |
| Operators, fabricators, and laborers | 59.4 | 5.6 | 35.0 |
| Farming, forestry, and fishing | 49.4 | 5.0 | 45.6 |
| Industry |  |  |  |
| Agriculture .................... | 49.4 | 7.3 | 43.3 |
| Nonagriculture . ................ | 64.8 | 7.3 | 27.8 |
| Mining . | 66.3 | 8.0 | 25.6 |
| Construction . . . . . . . . . . . . . . | 58.6 | 5.3 | 36.1 |
| Manufacturing . . . . . . . . . . . . . | 66.7 | 7.5 | 25.8 |
| Transportation and public utilities .. | 68.7 | 7.8 | 23.5 |
| Wholesale trade .............. | 66.3 | 7.4 | 26.3 |
| Retail trade . . . . . . . . . . . . . . . | 56.3 | 6.4 | 37.3 |
| Finance, insurance, and real estate | 68.6 | 8.0 | 23.5 |
| Services . . . . . . . . . . . . . . . . | 65.6 | 7.8 | 26.5 |
| Public administration . .......... | 72.3 | 7.2 | 20.5 |

men said they would prefer more hours, compared with about 3 of 10 white men. The fewer hours and related paycut option was selected by only 4 percent of all black and Hispanic workers, whereas about 8 percent of whites made this choice.

Hours worked. The proportion preferring the same hours and the same money increased steadily with hours actually worked up through 40 hours; it then turned downward. (See table 2.) As would be expected, the fraction wanting more hours and more money fell as hours worked rose-but again only through 40 hours. The changes in preference patterns at the 40 -hour and 41- to 48 -hours categories are somewhat surprising. The peak in satisfaction at 40 hours may reflect widespread acceptance of the traditional 40 -hour workweek, while the monetary influence of the initial hours paid at premium rates, which many workers receive after 40 hours, may explain the small increase in the more hours response. In any case, the proportion wanting more hours declined again when actual hours reached 49 to 59 per week, and fell further (to about 20 percent) for those working 60 hours and over. In contrast, the fraction preferring fewer hours rose with actual worktime up to 35 to 39 hours; it then dipped at 40 hours before resuming its uptrend. However, even when the workweek was 60 hours or more, the proportion preferring more hours was larger than that preferring fewer hours.

Occupation and industry. The pattern of workweek preferences differed sharply across occupations, but variations were smaller among industry groups. (See table 3.) As would be expected, satisfaction was greatest among highly educated
and well paid managerial and professional workers. These occupations also scored relatively high on the fewer hours choice and low on the more hours option.
Satisfaction with the current workweek and pay was less common among semi- and low-skilled manual workers and in the service occupations. Only about half of the helpers and laborers, and farming, forestry, and fishing workers wanted to keep the same hours. Here again, low satisfaction with the status quo correlated with a high preference for more hours. The latter alternative was picked by between 40 and 45 percent of the service workers, helpers and laborers, and those in farming, forestry, and fishing occupations.
Public administration was the industry with the highest proportion of workers preferring their current hours, and agriculture was the lowest. Satisfaction was also relatively low in retail trade, where the average workweek is short, and in construction, where hours of work are often irregular. Approximately 4 of 10 workers in retail trade, construction, and agriculture wanted more hours. However, in public administration only 2 of 10 preferred a longer workweek.

## Work-leisure tradeoffs

The data on preferred hours of work may be used to examine the effect of income on tradeoffs people make between work and leisure. ${ }^{2}$ According to labor supply theory, individuals decide how many hours to work based on their preferences for leisure versus all other goods and services. The wage rate represents the amount of consumption goods that can be obtained per hour worked. As the wage rate rises, two opposing effects are brought to bear on the hours decision. ${ }^{3}$ The substitution effect leads to a decrease in leisure consumed and an increase in hours worked because leisure time costs more in terms of earnings forgone. In

contrast, the income effect causes hours of work to fall because at the higher income associated with the higher wage rate, individuals will want to purchase more goods generally, including leisure.
The interaction of these two effects determines whether more or fewer hours of labor will be supplied when the wage rate rises. Both the substitution and income effects are evident in the backward-bending labor supply curve illustrated below:


The lower part of the curve is positively sloped, meaning that at lower wages, labor hours supplied increase as the wage rises. However, above a certain wage rate $\left(W_{2}\right)$, the curve may begin to bend backward, as the income effect dominates.
May 1985 data on preferred hours by earnings suggest some indirect support for the backward-bending supply curve theory. ${ }^{4}$ As earnings rise to high levels for prime working-age adults, smaller proportions want to increase their workweeks and larger fractions prefer to decrease their hours of work. ${ }^{5}$ (See table 4.) This finding could reflect a strong income effect-causing workers with the highest earnings to want to reduce their work hours-as occurs on the negatively sloped part of the backward-bending supply curve. It could also indicate that workers with lower weekly earnings also have shorter workweeks and are more likely to want to increase, rather than decrease, their hours. Moreover, it is important to note that for men-even men earning $\$ 750$ or more per week-the proportion wanting more hours of work exceeded that wanting fewer hours.

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Women are more willing than men to forgo income for leisure. This was evident at virtually all earnings levelsespecially in the prime working-age groups. (See table 4.) About 1 of 8 women earning $\$ 200-\$ 499$ per week would prefer to work fewer hours. Moreover, when weekly earnings reached $\$ 500$ or more, the proportion preferring fewer hours was greater than that wanting more hours. No other worker group studied displayed this preference pattern. In the highest earnings category, about one-fifth of the women expressed a preference for shorter hours (more leisure), while only one-seventh wanted longer workweeks (more income). It is also interesting to note that women's satisfaction with their current hours increased as earnings rose only up to a point. Once earnings reached $\$ 300$ or more per week, the proportion satisfied leveled off, and it then fell in the highest earnings category.

The preference pattern for prime working-age men differed sharply from that for women. At all earnings levels, the proportion of men wanting more hours was substantially larger than the proportion preferring more leisure. In the $\$ 300$ to $\$ 499$ earnings range, men preferred more hours 4 to 1 over fewer hours. Even at weekly earnings of $\$ 500$ and over, only about 8 percent of prime working-age men were
willing to trade income for leisure, whereas 15 to 20 percent wanted more hours and more money. Also, the proportion of men satisfied with the length of their workweek continued to rise as earnings increased. The substitution effect seems to outweigh the income effect for prime working-age meneven when earnings are extremely high.

In sum, two of three employed persons in May 1985 said they would prefer to work the number of hours they currently work and earn the same money. An additional onefourth wanted to work more hours and earn more money. Only 8 percent would choose a shorter workweek and less money. As might be expected, the degree of satisfaction with present hours rose with age and with weekly earnings. In contrast, the proportion wanting to work more hours and earn more money, which was high for young people and low earners, fell sharply as age and earnings increased. Women were more likely than men to prefer fewer hours and a proportionate reduction in pay. Although the proportion of men and women willing to forgo income for leisure time was generally small, it rose steadily as weekly earnings increased. This suggests that at very high earnings, the labor supply curve may bend backward.


#### Abstract

${ }^{1}$ See G. Katona, B. Strumpel and E. Zahn, Aspirations and Affluence (New York, McGraw-Hill, 1971), pp. 128-33; and Fred Best, "Exchanging Earnings for Leisure: Findings of an Exploratory National Survey on Work Time Preferences" (U.S. Department of Labor, Employment and Training Administration), R\&D Monograph 79. The Katona and others questions were asked of a nationally representative sample of household heads. The Harris survey was based on a national sample of employed civilians 17 years of age and over. These two surveys obtained the following results: |  | Percent preferring: |  |  |
| :--- | :---: | :---: | :---: |
|  | Same | Fewer | More |
| Katona and others, $1966 \ldots \ldots \ldots .$. | 56 | 10 | 34 |
| Louis Harris and Associates, $1978 \ldots \ldots$. | 61 | 11 | 28 | ${ }^{2}$ Leisure in this context represents all time except paid worktime. In other words, it includes time spent on housework, child care, school attendance and numerous other activities that are not commonly defined as leisure. ${ }^{3}$ Economists have argued about the relationship between the wage rate


and the quantity of labor supplied since the English mercantilists in the 1600's. The landmark twentieth century work in this field is Lionel Robbins' "On the Elasticity of Demand for Income in Terms of Effort," Economica, June 1930, pp. 123-29. After pointing out that the demand for income can also be viewed as the supply of effort, Robbins says there is no a priori way to predict how a change in the wage rate will affect hours of work. Rather, one must observe how individuals vary the amount of work done when the wage rate changes. The same point is addressed in terms of income versus substitution effects by Paul A. Samuelson in Economics, 3d ed. (New York, McGraw-Hill, 1955), pp. 535-36.
${ }^{4}$ Cross-sectional data on preferences for more and fewer hours of work by weekly earnings are used as proxies for substitution and income effects. Data on hours that individuals chose to work at different pay rates are not available.
${ }^{5}$ Because only one-quarter of the wage and salary workers in the sample are asked the earnings questions, the standard errors of earnings estimates are relatively large. For this reason, percentages are not shown where the base is less than 100,000 .

# Temporary help workers: who they are, what jobs they hold 

These workers are disproportionately female, young, and black; they are more likely to work part time and in clerical and industrial help jobs

## Wayne J. Howe

Much attention, of late, has been given to the rapid employment growth in the temporary help supply service industry. This industry consists of businesses supplying temporary help to other establishments on a contractual basis.

For the most part, the focus has been on the conditions under which employers prefer to use temporary labor supplied by a temporary help supply agency. ${ }^{1}$ For example, an employer with a fluctuating workload, particularly when unpredictable peakloads allow little time to recruit and hire directly, is likely to utilize this service. Also, if a need for additional workers is expected to be short term, a firm might find the costs involved in hiring, particularly those related to recruiting and training, to be excessive. The purchase of temporary help services allows the employer to incur labor costs for only the period the services are required, and to avoid any severence costs. In contrast to the employerdemand focus of earlier analyses, this article provides information about the composition of the temporary help supply service work force and the circumstances under which individuals are attracted to temporary employment.

Data on wage and salary employment in the temporary help supply service industry used in this article are obtained from the May 1985 supplement to the Current Population Survey (CPS), a monthly sample survey of households. This supplement included questions specifically designed to

[^18]identify workers who viewed their jobs as temporary and whose salaries were being paid by a temporary help supply agency. The characteristics of such workers could then be examined through the information normally collected for all persons in the CPS in terms of their age, sex, race, marital status, full- or part-time employment, and occupation.

It should be noted that the temporary help supply employment industry level derived from the CPS is not strictly comparable to that obtained from the Current Employment Statistics (CES) program. The monthly CES survey derives its estimates from the payroll records of a sample of establishments. In the case of temporary help workers, the cES estimates relate to the total number of jobs in the industry, including those of the personnel who operate the temporary help agencies. By contrast, the new CPS data relate only to those workers who view their jobs as temporary. Thus, these data exclude not only the permanent employees who staff the many agencies, but may also exclude many of the workers who do not view their jobs as temporary, as they have a fairly continuous attachment to the temporary help agency. This explains at least part of the reason the number of temporary help workers identified in the CPS in May 1985-455,000-was much lower than the number of jobs in the temporary help industry as measured through the CES-689,000. The CPS data, while not representative of all the employees in the industry, are representative of the preponderance of them, particularly of those whose jobs are truly temporary. And, the CPS supplies the only information available on the characteristics of these workers.

## Who are these workers?

Just as employer demand for temporary workers increases during times of uncertainty, many workers seek temporary employment due to transitory or uncertain circumstances. Such workers might include teachers and students out of school for the summer or other vacation periods, or persons entering or leaving the labor force gradually. Women and young persons are more likely than others to experience these transitory conditions. Therefore, it should not be surprising that there was a disproportionately high concentration of both groups employed by temporary help supply agencies in May 1985. Almost two-thirds of the industry's work force were women, in contrast to their 2 of 5 proportion of all wage and salary jobs. (See table 1.) This difference clearly reflects the benefits offered to many women by the temporary help supply service industry, particularly the combination of flexible work schedules and the opportunity to acquire needed experience and job market exposure. In addition, the industry has a large number of administrative support jobs, and a disproportionate number of women are traditionally employed in such clerical positions.

Women with family responsibilities are particularly attracted to temporary employment because it provides the flexible work schedules that allow them to reconcile work outside the home with family commitments. Women who reenter the labor force after a long absence may prefer temporary jobs until they are able to find suitable permanent

Table 1. Employed wage and salary workers in all industries and in the temporary help supply industry, by selected characteristics, May 1985
[Percent distribution]

| Characteristic | $\begin{array}{\|c\|} \hline \text { All } \\ \text { industries } \end{array}$ | Temporary help supply industry |
| :---: | :---: | :---: |
| Age |  |  |
| Total, 16 years and over |  | 100.0 32.7 |
| 16 to $24 \ldots . . . . .$. | 20.1 | 32.7 57.6 |
| 55 and over | 12.5 | 57.6 9.7 |
| Sex and race |  |  |
| Men | 55.0 | 35.8 |
| Women | 45.0 | 64.2 |
| White | 86.9 | 75.4 |
| Black | 10.4 | 20.2 |
| White | 100.0 | 100.0 |
| Men | 55.7 | 33.2 |
| Women | 44.3 | 66.8 |
| Black | 100.0 | 100.0 |
| Men | 49.4 | 48.9 |
| Women | 50.6 | 51.1 |
| Occupations |  |  |
| Managerial and protessional specialty | 24.0 | 11.0 |
| Technical, sales, and administrative support | 31.6 | 52.1 |
| Administrative support, including clerical | 17.3 | 43.3 |
| Service occupations ................ | 13.7 | 10.8 |
| Precision production, cratt, and repair | 12.1 | 4.6 |
| Operators, fabricators, and laborers | 16.6 | 16.9 |
| Farming, forestry, and fishing .......... | 2.1 | 4.4 |

Table 2. Employed full- and part-time wage and salary workers in the temporary help supply industry, by selected characteristics, May 1985
[Percent distribution]

| Characteristic | Full-time workers | Part-time workers |
| :---: | :---: | :---: |
| Age |  |  |
| Total, 16 years and over | 60.0 | 40.0 |
| 16 to $24 . . . . . . . . .$. | 55.7 | 44.3 |
| 25 to 54 | 66.8 | 33.2 |
| 55 and over | (1) | (1) |
| Sex and race |  |  |
| Men | 64.4 | 35.6 |
| Women ${ }^{2}$ | 57.5 | 42.5 |
| Single | 64.9 | 35.1 |
| Married, spouse present | 50.7 | 49.3 |
| White . . . . . . . . . . . . | 62.7 | 37.3 |
| Men | 71.0 | 29.0 |
| Women | 58.5 | 41.5 |
| Black. | 44.6 | 55.3 |
| Men | (1) | (1) |
| Women | (1) | (1) |
| Occupations |  |  |
| Technical sales, and administrative support |  |  |
| Administrative support, including clerical . | 66.6 55.3 | 33.4 44.7 |
| Operators, fabricators, and laborers All other occupations | 55.3 51.8 | 44.7 48.2 |
| ${ }^{1}$ Data not shown where base is less than 75,000 . |  |  |
| ${ }^{2}$ Includes widowed, divorced, and separated women, not shown separately. |  |  |

employment. Employment through a temporary help supply agency enables them to test the market by sampling a range of work environments until they find the right employment situation. At the same time, temporary employment allows these workers to acquire needed skills and experience while building confidence and increasing their marketability. Such skills and confidence can be lost during years outside the labor force. Some women prefer the flexibility of the temporary help environment for the long term. In either case, the increasing tendency among firms to contract out for temporary employees, particularly to staff administrative support positions, has provided a growing temporary job market for women.

Temporary employment is also appealing to young workers (16-24 years old) who want flexible schedules, allowing time to attend school, or the opportunity to work during vacations. Young workers held 1 of 3 temporary help supply service jobs in May 1985, compared with 1 of 5 wage and salary jobs in all industries. (See table 1.) The representation of young workers in this industry increases during the summer months, when many working mothers leave the labor force to care for school age children and students step in to take their places. ${ }^{2}$

Young persons who have little work experience may also be attracted to employment in temporary help agencies as a means of attaining higher paying permanent positions. Job search costs, in terms of both time and money, can be reduced by allowing a temporary help agency to establish contact with potential employers. However, contracts
between employers and temporary help supply agencies may sometimes limit this type of job-switching.

In addition to the large concentration of women and youth, there is also a relatively high proportion of black temporary help workers. About 1 of 5 such workers is black, nearly twice the proportion found among all industries. (See table 1.) Only about half of the black workers in this industry were women, similar to the distribution of the black work force found in all industries. In contrast, among white workers, women accounted for two-thirds of the temporary help work force, but only 44 percent of wage and salary employment in all industries.

While the majority of temporary help supply employees work full time, a very large proportion, 2 of 5, work part time. (See table 2.) This was more than twice the average for all wage and salary workers. Women were less likely than men in this industry to work full time, but this depended largely on their marital status. Almost two-thirds of the single women in temporary help jobs worked full time, while only about half of the married women (with spouse present) did so. As would be expected, young people were less likely to work full time. Only 56 percent of youth age 16 to 24 were employed full time, while 67 percent of the temporary help work force age 25 to 54 were full-time workers.

## What jobs do they hold?

Temporary help workers perform a variety of jobs, from service workers earning the minimum wage to highly paid technicians or administrators working as temporary specialists on specific projects. When compared with all industries, however, a particularly large concentration of temporary help workers were in the administrative support and industrial help occupations: indeed, 43 percent held clerical positions such as general office clerks, secretaries, typists, and receptionists- $2^{1 / 2}$ times their proportion in all industries. (See table 1.)
More than 9 of 10 clerical jobs in the temporary help industry were filled by women. Skill requirements for many of these clerical positions are relatively low, but more highly
skilled clerical workers, particularly those with wordprocessing skills, are much in demand; consequently, pay for them is relatively high compared with other clericals. Overall, the demand for temporary workers in clerical positions is less sensitive to seasonal and cyclical changes than is the demand for workers in other occupations. Future job growth is expected to be particularly strong for highly skilled workers who can operate the latest office equipment. ${ }^{3}$

When compared with workers in other occupations within the industry, persons in clerical positions are more likely to work full time-two-thirds of them in May 1985. (See table 2.) Although many clerical workers fill in only for short assignments or for workers who are ill, it is not unusual to work in the same temporary job for weeks or even months. Some stay with the temporary agency until they find permanent employment.

The second largest occupational market in this industry is for industrial help workers-helpers, laborers, handlers, and equipment cleaners. Little work experience is required for many of these jobs, and the demand for these workers is both seasonal and cyclical. ${ }^{4}$ Many are employed as fill-ins to handle temporary work overloads or to step in when regular employees are ill or on vacation. Only 55 percent of the workers in these occupations were full time, somewhat lower than the proportion for administrative support workers. Moreover, just as women dominated the administrative support occupation, almost 90 percent of the operators, fabricators, and laborers were men. Finally, there are a large number of low skill, low paying laborer jobs in the temporary help industry, which may be responsible for the high concentration of black workers. Black men in particular are much more likely than their white counterparts to be employed in these jobs. ${ }^{5}$

In summary, data from the May 1985 supplement to the CPS show that those temporary workers whose salaries are paid by temporary help firms are disproportionately female, young, and black. They are more likely than workers in other industries to work part time, and they are heavily concentrated in clerical and industrial help occupations.

## FOOTNOTES_

[^19][^20]5 "Employment Conditions Among Black Americans," a paper prepared by the Division of Employment and Unemployment Analysis, Office of Employment and Unemployment Statistics (Bureau of Labor Statistics, February, 1986), p. 16.

## Conventions



# Steelworkers press organizing and coordinated bargaining 

Joy K. Reynolds

The United Steelworkers of America (AFL-CIO, CLC) held its 23rd constitutional convention in Las Vegas, nv, August $25-29,1986$. Some 2,800 delegates took action to implement the two major themes of the convention: celebrating the union's 50th anniversary (the Steel Workers Organizing Committee was formed in June 1936) and addressing future challenges. Delegates enacted constitutional changes that, among other things, broadened the categories of persons eligible for membership and clarified the power to merge small locals. They elected five international tellers to 4 -year terms to perform duties in connection with the 1989 referendum election of international officers and passed resolutions dealing with numerous topics, including collective bargaining, plant closings, and employee stock ownership plans. The convention heard speeches from Steelworkers International President Lynn Williams, afl-cio President Lane Kirkland, former Steelworkers President I.W. Abel, Amalgamated Clothing and Textile Workers Union President Murray Finley, Canadian Labour Congress (clc) President Shirley Carr, and numerous national and State or provincial politicians from both the United States and Canada;

## Speech highlights

In the keynote address, Steelworkers President Williams, who was reelected to that post in a November 1985 referendum, outlined the results of this year's bargaining in major industries, including containers, aluminum, nonferrous metals, and steel. Williams emphasized that the union intends to maintain its coordinated approach to bargaining despite the breakdown of coordinated strategies on the employer side. He admitted that the steel agreements reached with Ltv, Bethlehem, National, and Inland involve sacrifices, but praised the employment security guarantees and profit-sharing aspects of those settlements. He charged that the union's high priority on preserving jobs and limiting contracting out was one major reason that USX (formerly U.S. Steel Corp.) locked out more than 22,000 workers on August 1. Williams thanked the afl-cio for its recently

[^21]formed committee to support the USX workers, about whose efforts Clothing and Textile Workers President Murray Finley later addressed the convention. Williams criticized the trade policies of the U.S. and Canadian governments, arguing that "there is no such thing as free trade"; the union seeks "managed" trade, aimed at raising the standard of living in both seller and buyer nations.
Regarding developments within the Steelworkers "family," Williams cited the union's success in organizing new members, not only in its traditional membership base but also in public sector and other service industry units; the pace of organizing in 1986 was reported to be more than five new units a week. He noted the completion of the merger with the 34,000-member Upholsterers International Union, which became a division of the Steelworkers, with former Upholsterers President John Serembus serving as director.

The continued connection of retirees with the Steelworkers was personified by the appearance at the convention of former union president I.W. Abel, who has been appointed to head soar, the Steelworkers Organization of Active Retirees. According to its bylaws, SOAR will "deal with the social, economic, educational, legislative, and political developments and concerns of its members and spouses, the United Steelworkers of America, and the labor movement." President emeritus Abel, whose address anchored that portion of the convention celebrating the Steelworkers' jubilee, reviewed the history of the struggle to organize the steel industry and highlighted accomplishments of the union gained through both collective bargaining and involvement in the legislative process (for example, supporting enactment of the Occupational Safety and Health Act and the Employee Retirement Income Security Act).

In his address to the convention, AFL-CIO President Lane Kirkland pledged the Federation's support to the Steelworkers in its struggle against usx. He urged Government trade and employment policies that would help to preserve the Nation's industrial base, noting that "silicon chips cannot be sold over the counter in a 7-Eleven." He lauded the cooperative efforts of the union in attempting to meet the challenges facing the industry, but warned that such cooperation must be met by reciprocal actions on the part of employers.

## Constitutional changes

The convention adopted constitutional changes and policy recommendations in many areas. Among the amendments enacted were the following:

- Replacement of references to membership in "a plant or mill or any other place" with the words "an enterprise, public or private," to reflect the union's expanding jurisdiction.
- Amendment of Article III to permit membership by supervisors, including those empowered to hire or fire, subject to terms established by the International Executive Board. (Previous language had provided that only supervisors without such powers could join, subject to the specific approval of the local union and the Board). Those opposing this change argued that the union should not rush to embrace persons who are firing their fellow workers. But the amendment carried on a standing vote after members of the constitution committee explained that the language was not intended to apply to mill foremen and supervisors, but is largely aimed at expanding recruitment in the public sector, where, for example, a recently organized unit of middle managers in Boston brought in more than 400 members through the Salaried Employees of North America, a division of the Steelworkers.
- Amendment of Article IV to provide for annual, instead of semiannual, audits of the international union finances.
- Amendment of Article V to provide, in part, that protests regarding local union voting for national officers must be "received' by the international tellers within 15 days of the election. Prior language had required such protests to be "filed" with the tellers no later than 10 days after the election.
- Amendment of Article VII to provide that 100 or more persons (formerly 10) eligible for membership shall constitute a local union upon receipt of a charter from the international secretary. Smaller groups may be chartered upon the authority of the international president. Further, language was added to provide for International Executive Board rules governing transfer of jurisdiction of one local to another. Supporters of these changes cited the large number of small locals (of 4,232 locals, 557 have nine or fewer members and 2,692 have fewer than 100 members) and the strength that comes from amalgamation. They argued that the amendment reflects existing Board power to combine locals and promised that mergers would be accomplished in consultation with district directors and the affected locals. According to Williams, "Obviously those that are functioning properly will continue." Floor discussion was closed before opponents of the measure spoke, as a delegate later took the floor to point out. The outcome of the voice vote being in doubt, a standing vote was held, and the change was adopted.
- Amendment of Article XIV to provide that when the assets of the strike and defense fund exceed $\$ 200$ million in any month, payments to it shall cease until the balance falls below $\$ 150$ million, instead of $\$ 180$ million as previously provided. (Interim payments will be divided equally between the international and local unions.) In response to a resolution that a mechanism be established
to enforce local affiliation with State and provincial central bodies, Article XIV was amended to provide for deduction for dues to such bodies from local per capita refunds by the international treasurer with the approval of the international president.
- Addition of Article XVIII to provide an associate membership aimed at organizing new membership and also to provide a means for continued affiliation by laid-off members who have gone beyond the 24 -month period provided for continued membership status under Article XI, as well as for persons organized in units that subsequently fail to vote for union representation. The new article provides that associate members shall not be eligible to run or vote for international or local office but may participate in organizations of associates to the extent and under rules provided by the International Executive Board. These members will be eligible for benefits such as prepaid legal services, credit cards, and insurance coverage. Adoption of this category of membership parallels a recommendation of the AFL-CIO's Committee on the Evolution of Work.

Among the constitutional amendments proposed but not adopted were those reducing or capping members' dues and salaries of international officers and district directors, providing full voting membership for retirees, providing mail ballots in elections of international officers, expanding the access of members to absentee ballots in such elections, permitting locals to hold quarterly rather than monthly meetings, and providing for removal of local officers without "costly" trial procedures. In the collective bargaining area, amendments considered but not adopted included those to postpone conventions in years of major contract negotiations, to hold conventions in cities most affected by layoffs of members, to increase the amount of strike benefits, and to provide for strike benefits payment as a matter of right rather than after determination of need by the local union.

## Other actions

As the union's "court of last resort," the convention heard appeals on matters such as local elections and trial procedures. The convention also adopted resolutions in the areas of politics, collective bargaining strategies and specific disputes, and legislative policies. For example, the union endorsed new strategies in collective bargaining, including consumer boycotts and corporate campaigns; adopted standards for the negotiation of Employee Stock Ownership Plans (they must be part of the labor agreement, must never be used as a substitute for an adequate, funded, Governmentguaranteed pension plan, and should be based on thorough analysis of the company's finances and prospects for survival); and endorsed legislation to require advance notice of plant closings and bargaining over alternatives to closings or layoffs.

# Major Agreements Expiring Next Month 



This list of selected collective bargaining agreements expiring in December is based on information collected by the Bureau's Office of Wages and Industrial Relations. The list includes agreements covering $\mathbf{1 , 0 0 0}$ workers or more. Private industry is arranged in order of Standard Industrial Classification.

| Industry or activity | Employer and location | Labor organization ${ }^{1}$ | Number of workers |
| :---: | :---: | :---: | :---: |
| Private |  |  |  |
| Construction | Constructors Association of Western Pennsylvania (Pennsylvania) | Operating Engineers |  |
|  | Constructors Association of Western Pennsylvania (Pennsylvania) .... | Laborers... | $3,600$ |
|  | National Electrical Contractors Association, Western Pennsylvania Chapter (Pennsylvania) | Electrical Workers (IBEW) . . . . . . . . | 1,500 |
| Food products | Iowa Beef Processors, Inc. (Nebraska) . . . . . . . . . . . . . . . . . . . . . . | Food and Commercial Workers .... | 2,000 |
| Apparel | Plastic Soft Material Manufacturers Association (New York, NY) .... | Ladies' Garment Workers ......... | 2,600 |
| Paper . | Westvaco Corp. (Virginia and Maryland) ......................... | Paperworkers ....... | 1,050 |
| Primary metals | Huntington Alloys Inc. (Huntington, wv) ......................... | Steelworkers .................. | 1,000 |
|  | Copperweld Corp. (Warren, OH) | Steelworkers | 2,000 |
|  | Neenah Foundry Co. (Neenah, wI) | Molders | 1,000 |
| Electrical products . . . . . | avx Corp., Avx Ceramics (Myrtle Beach, Sc) | Electrical Workers (IBEW) . . . . . . . . | 1,400 |
| Transportation equipment | Dana Corp. (Interstate) . . . . . . . . ................................ | Auto Workers . ................ | 7,000 |
| Water transportation .... | Great Lakes Association of Stevedores (Interstate) | Longshoremen's Association | 6,000 |
| Air transportation | Northwest Airlines, flight attendants (Interstate) | Teamsters (Ind.) ................ | 3,000 |
|  | Republic Airlines, clerical and office (Interstate) | Air Line Pilots . . . . . . . . . . . . . . . | $6,300$ |
|  | Western Airlines, pilots (Interstate) | Air Line Pilots | 1,200 |
|  | Ozark Airlines, clerical and office (Interstate) | Machinists | 1,800 |
| Communication | General Telephone Co. of Pennsylvania (Pennsylvania) ............ | Electrical Workers (IBEW) | 2,000 |
| Utilities | Public Service Co. of Colorado (Denver, co) ....................... | Electrical Workers (IBEW) | 3,000 |
|  | Southern California Edison Co. (California) ....... | Electrical Workers (IBEW) ......... | 5,750 |
| Retail trade | New York Oil Heating Association (New York, NY) | Teamsters (Ind.) . . . . . . . . . . . . . | 1,700 |
|  | New York-Bronx Meat and Food Dealers Inc. (New York, NY) <br> Kroger Co. (Dayton, OH) | Food and Commercial Workers .... Food and Commercial Workers | 1,600 2,000 |
| Restaurants | San Mateo Hotel and Restaurant Owners Association (California) | Hotel Employees and Restaurant Employees | 5,200 |
|  | Bob's Big Boy Restaurants (California) Realty Advisory Board on Labor Relations, Inc., Commercial Building Agreement (New York, NY) | Bob's Employees' Association (Ind.) | 5,200 |
| Real estate |  | Service Employees . . . . . . . . . . . | 18,000 |
| Services | Service Employers Association (New York) | Service Employees | 36,000 |
|  | Associated Guard and Patrol Agencies (Chicago, IL) ............... | Service Employees | 6,000 |
| General government | Alaska: State general unit |  | 7,900 |
|  | State labor trades and crafts | Laborers | 1,500 |
|  | Minnesota: Hennepin County general unit | State, County and Municipal Employees | 3,000 |
|  | Florida: Dade County classified employees | State, County and Municipal Employees | 10,000 |
|  | New York: Broome County white-collar employees | Civil Service Employees Association | 1,100 |
|  | Dutchess County general unit | State, County and Municipal Employees | 1,200 |
|  | Oneida County general unit | Civil Service Employees Association | 1,000 |
|  | Onondaga County general unit .................... | State, County and Municipal Employees | 3,500 |
|  | Orange County general unit . ..................... | State, County and Municipal Employees | 1,500 |
|  | Chautauqua County general unit | Civil Service Employees Association | 1,200 |
|  | Nebraska: Omaha municipal employees | State, County and Municipal Employees | 1,050 |
|  | Wisconsin: Milwaukee County general unit | State, County and Municipal Employees | 6,000 |
|  | Milwaukee municipal employees .................... | State, County and Municipal Employees | 2,800 |
| Law enforcement | Milwaukee Police Department | Police Association ........ | 1,800 |
|  | Ohio: Cincinnati Police Department | Police | 1,050 |
| Fire protection | Pennsylvania: Pittsburgh Fire Department | Fire Fighters ................... | 1,050 |
| Education | California: San Diego Unified School District, office | Education Association (Ind.) ...... | 2,300 |
|  | Colorado: Boulder District 21, teachers .......................... | Education Association (Ind.) ...... | 1,250 |
|  | Cherry Creek teachers ... | Education Association (Ind.) ...... | 1,500 |

[^22]
# Developments in Industrial Relations 



## Steel update

The financially beleagured steel industry continued to suffer, as USX Corp. and Timken Co. were involved in work stoppages; Armco Inc. was unable to negotiate cuts in labor costs it had sought at its Middletown, OH , mill; and LTV Corp. filed for bankruptcy.

The Armco settlement with the Armco Employees Independent Federation does provide for a wage and benefit freeze for the 42-month contract term, but the company had been seeking a paycut of more than 75 cents an hour, cuts in holiday, vacation, and insurance benefits, and adoption of a two-tier pay system.

Armco said it accepted the terms, which ended a 5-day strike by the 4,200 employees, "primarily in the interest of the customer and [out of] growing concern for the company's financial position." Armco's ability to sustain a long strike was hampered by its financial commitments, including an $\$ 85$ million pension payment due September 13.

Despite the company's dissatisfaction with the overall settlement, it did win the right to reopen negotiations in March of 1988 and 1989 if the mill fails to earn $\$ 50$ million before taxes on operations during the preceding calendar year. However, the union maintains that even if earnings are below $\$ 50$ million, the provision could be exercised only with its consent.

At USx Corp., there was a continuing dispute over which side impelled the stoppage that began on August 1, when the previous contract expired. The United Steelworkers contended the stoppage was a lockout, which would enable the idled employees to draw State unemployment benefits. According to USX, the stoppage was a strike, precluding the employees from drawing unemployment benefits. There was no single answer from the affected States-Pennsylvania, Ohio, Alabama, and Minnesota ruled the stoppage a lockout, while Illinois and Utah held that it was a strike. In some cases, the rulings were being appealed.

Both the company and the United Steelworkers viewed the Timken Co. stoppage as a strike. The 5,800 employees walked out of the three Ohio plants after the company demanded a 60 -cent-an-hour wage decrease, and the union countered by offering a wage and benefit freeze.

[^23]The most significant recent event in the steel industry was LTV Corp., filing for protection from creditors under Chapter 11 of the bankruptcy code. LTV is the Nation's second largest steel producer. At the time, LTV reported assets of $\$ 6.14$ billion and liabilities of $\$ 4.59$ billion. The attempt to reorganize and return to profitability came just 3 months after the United Steelworkers had agreed to a $\$ 3.15$ an hour cut in wages and benefits to aid the company, which has suffered $\$ 1.7$ billion in losses since 1982. (See Monthly Labor Review, June 1986, p. 45.) The bankruptcy filing meant that further compensation cuts might be required of the employees, particularly after LTV officially informed the union that it wanted to renegotiate the April contract. The union's initial response was that it would not automatically agree to the proposal. The filing also raises the possibility that other companies that had already settled would press for renegotiation of their contracts to maintain competitive parity with LTV.

In conjunction with the Chapter 11 filing, LTV cancelled health and life insurance benefits for 76,000 retirees, including 61,000 retired Steelworkers. This triggered a strike by 4,400 workers at LTv's Indiana Harbor Works in East Chicago, in, as well legal action by the Steelworkers to force a restoration of the benefits. The strike ended after 5 days when a bankruptcy judge acceded to LTV's request for permission to restore the benefits. The company said that ending the walkout was vital to improving its financial condition.

In another indication of LTV's difficult financial condition, the company asked the Pension Benefit Guaranty Board (PBGB) to assume payments to retirees covered by one pension plan, and the PBGB itself moved to take control of another underfunded plan. These events, combined with a possible PBGB takeover of two other LTV pension plans, could raise the PBGB obligation to more than $\$ 2.5$ billion.

## Dispute settled in meat processing

In the meat processing industry, a long dispute that pitted employees against management and a local union against the parent United Food and Commercial Workers (UFCW) apparently ended when the UFCW settled with Geo. A Hormel and Co.'s flagship plant in Austin, mN. Concurrent with the Austin accord, Hormel and the UFCW also negotiated a new contract for seven plants in six states. The difficulties at the Austin plant, which included a "corporate
campaign" against Hormel that was initiated by the Local P-9 before the UFCW removed its officers and a year-long strike that ended with the contract settlement, can be traced through a number of developments in recent years:

- In 1982, Local P-9 agreed to a 3 -year contract that included a no-strike guarantee, as well as elimination of an incentive pay plan. In return for these inducements to locate a new $\$ 100$ million plant in Austin, Hormel pledged to maintain the employees standard wage rate at the same level as at other major companies in the industry.
- In 1983, the industry was hit by bankruptcies and plant closings, leading to cuts in the previous $\$ 10.69$ an hour standard pay rate. Hormel pressed employees at all eight of its plants for similar cuts to remain competitive. Unlike employees at the other plants, those in Austin rejected the offer, contending that the "me-too" clause in their contract was only intended to raise wages. An arbitrator later ruled that Hormel could cut the rate at Austin to between $\$ 8$ and $\$ 9$ an hour.
- In 1984, employees of the seven other plants negotiated with Hormel on the issue and settled on an immediate \$9 rate, rising to $\$ 10$ in September 1985. Austin employees rejected the proposal and initiated the corporate campaign to bring consumer pressure against Hormel. At the same time, Hormel cut the pay rate to $\$ 8.25$ at Austin. Leaders of the parent union condemned Local P-9's action in breaking ranks with the other locals and questioned the value of the corporate campaign tactic. Despite the condemnation, the local did not change.
- In August 1985, 1,400 employees struck the plant after negotiators failed to agree on a new contract to succeed the 1982 contract. To increase pressure on the company, Local P-9 accelerated the corporate campaign, which was declared to be an illegal secondary boycott in a National Labor Relations Board ruling issued the following month.
- In January 1986, Hormel began hiring replacements for the strikers, leading to intensified picketing at the plant and a call-up of the National Guard, as well as efforts by pickets to increase pressure on Hormel by traveling to other company plants. This led to the firing of 500 workers at the Ottumwa, IA, plant for honoring the roving picket line. At the end of the month, Hormel said that it had nearly a full work force, comprising 550 returning strikers and 550 replacement workers.
- In March 1986, the UFCW declared the strike a lost cause and moved to place Local P-9 in trusteeship, leading to legal actions that culminated in a ruling that the UFCW's action was proper.
- In July 1986, some of the former strikers formed the North American Meatpackers Union in an attempt to eventually supplant the UFCW as bargaining agent for the Austin employees.
- In August 1986, Hormel and the UFCW settled for the Austin operations. The accord provides for pay increases
totaling 70 cents an hour for the strikers who returned to work in January. The replacement workers hired in January also will move up to $\$ 10.70$ an hour over the contract term. Previously, they were paid $\$ 8$ an hour to start and a maximum of $\$ 9$ later. The union did not win immediate rehiring of the strikers who remained out until the stoppage was concluded, but Hormel did agree that for 2 years the strikers will have priority in filling openings that occur.

The new Austin contract runs for 4 years, compared with 3 years for the other locations, where concurrent settlements resulted in the same pay rates as for Austin. Hormel said that in the 1990 negotiations for the seven plants, it will agree to a common expiration date at all locations, including Austin, a major union goal to strengthen its bargaining position. The seven plants are in Fremont, Ne, Beloit, wi, Algona, IA, Charlotte, nc, Dallas and Houston, Tx, and Atlanta, GA.
In a related event, an arbitrator ordered Hormel to rehire the 500 workers it had fired in January for refusing to cross picket lines. Hormel accepted the ruling in principle, but noted that the January shutdown of part of the Ottumwa facility precluded rehiring all of the workers.
Elsewhere in meat processing, the UFCW settled with Oscar Mayer Co. for 2,300 workers in Davenport, IA, Madison, wi, and Chicago, il. The 3 -year accord provides for wage increases totaling 65 cents an hour, bringing the standard rate to $\$ 10.70$; a new supplemental retirement plan; an additional paid holiday; and health care improvements.

## Chrysler farms out work to American Motors

In an unusual move, Chrysler Corp. contracted out production of its large, rear-drive cars to American Motors Corp. (amC). Chrysler said the farm-out was necessitated by the planned conversion of its St. Louis plant from large car to van production and by the unexpected continuing high demand for the large cars.
A major factor in winning the production contract was an agreement between AMC and Local 72 of the Auto Workers that lowered labor costs at the company's Kenosha, wi, plant, where the Chrysler cars will be produced on an assembly line that had been idle because of slow sales of AMC cars. The plant's other assembly line will continue to assemble AMC cars.
The amc-Local 72 accord cut the 162 job classifications to 14 for skilled trade workers and to 32 for other workers. The number of classifications was a difficult issue, but a settlement did not come until the bargainers agreed on the precise duties each classification will encompass.

Locals of the Machinists and Teamsters unions also aided in the winning of the production contract by agreeing to cost-cutting measures for about 400 employees in Kenosha. uAW Local 75 also agreed to a cut in job classifications and other contract changes at AMC's parts plants in Milwaukee.
According to Chrysler, the production contract was ex-
pected to run for $2^{1 / 2}$ years, with an option for extension. Despite the pickup in production, which was expected to result in the recall of more than 3,000 laid-off AMC employees, the company continued to indicate that it considered the Kenosha facility to be obsolete and that it was considering the possibility of opening a replacement plant in Kenosha, or elsewhere in the United States.

## Talks completed for 'Chrysler Electronics City'

Another step toward the expected 1988 opening of "Chrysler Electronics City" in Huntsville, al, occurred when the company and Auto Workers Local 1413 agreed on a contract to become effective in 1988. The favorable vote by the local union's members, who are employed at other Chrysler facilities in the area, was 706 to 256 . A union official said the contract will provide for "substantial" wage increases, a reduction in job classifications, and "pay-forknowledge" provisions under which employees will receive higher pay for mastering more than one job.

The plant, covering 750,000 square feet on a 325 acre site, will produce electronic components for Chrysler vehicles. Chrysler hopes to attract some of its suppliers to the site. The plant is expected to employ 2,500 UAW members.

## GM offers departure incentives

General Motors Corp. moved to reduce operating costs by announcing "incentives" to resign or retire that could be offered to any white-collar employee of the company's North American automotive operations. This was part of the company's announced plan to reduce its white-collar work force by 25 percent by 1989. GM currently has 133,000 salaried employees involved in automotive production in the United States and 9,000 in Canada.

The announcement was applauded by industry observers who contended that GM is overstaffed, compared with Ford Motor Co. and Chrysler Corp., which have been reducing their white-collar staffs since the early 1980 's. GM did offer departure inducements to white-collar workers in 1984, and an undisclosed number accepted. Under the 1986 program, the inducements were to be made to individuals at the discretion of management. The affected employees could refuse the offer.

## Police officers pick assignments, work schedules

The Arlington County, va., police department has adopted an experimental program under which officers demonstrating superior performance will have priority in picking their beats and days they work. Previously, assignments and work schedules were based strictly on length of service. A department official said the program was established because "there are always people who work harder than other people, and we had no way to reward them." The experiment is limited to the 29 -member day section.
Under the evaluation procedure of the new program, officers will receive 1 point for issuing a parking ticket, ranging up to 50 points for a felony arrest. If the program proves workable during the 6 -month trial, officers who average at least 35 points a day during the period will be given priority in selecting neighborhood assignments and work schedules for the next 12 months. Within the group of eligible officers, those with the most seniority would have the first choice.
The president of the Arlington County Police Beneficial Association said it was too early to comment on the experiment. Under Virginia law, public employee unions can discuss contract provisions with employers, but they are not permitted to engage in binding collective bargaining.

## Shipbuilding companies bargain separately

Bargaining in the West Coast shipbuilding industry led off with a settlement between Todd Shipyard Corp.'s Los Angeles shipyard and Local 9 of the Marine and Shipbuilding Workers. The 3 -year accord could set a pattern for settlements between other shipyards and the Pacific Coast Metal Trades Council, comprising 11 unions with 10,000 members. Since the 1950's, the employers had bargained with the Trades Council as a unit, the Pacific Coast Shipbuilders Association, but the member companies decided to bargain individually in 1986.

The 3 -year Todd agreement froze top pay rates, leaving most workers at the $\$ 13.48$ an hour rate that applies to nearly all trades. There was a change in pay progression, with new employees starting at $\$ 9.50$ an hour and moving to the top rate after 3 years. Previously, they started at $\$ 8.50$.

Todd also agreed to take over a union-administered pension and benefit plan, to establish a health maintenance organization, to offer dental coverage, and to increase sickness and accident benefits.

## Book Reviews



## Labor in a turbulent era

American Workers, American Unions, 1920-1985. By Robert H. Zieger. Baltimore, md, The Johns Hopkins University Press, 1986. 233 pp. $\$ 25$, cloth; $\$ 9.95$, paper.
Books on the history of the American workers and their unions are a rare occurrence indeed and for this reason alone Professor Robert H. Zieger's contribution is to be welcomed. Within the scope he has set for himself-no new sources and no original research-Zieger has succeeded in delineating the major economic and political events that have shaped the current labor movement and that in turn have been shaped by it. Although the author's sympathies are clear throughout the volume, the treatment of issues is even-handed, an approach further supported by a judiciously selected bibliography. It should serve as an excellent supplementary text in undergraduate courses in industrial relations and labor economics.
In his first chapter, the author takes us, perhaps too quickly, through the 1920's, stressing the economic plight of millions of workers during these much acclaimed years of prosperity.

Organized labor's massive and unexpected gains during the 1930 's are the subject of chapter 2 , which includes an insightful treatment of John L. Lewis, the cio, and the organizing campaigns in steel, auto, and other manufacturing industries.
Chapter 3 discusses labor's role during World War II, a subject typically ignored in general history texts or those devoted to that period. Students of the labor movement will be grateful to the author not only for his discussion of black and women workers, but also for drawing attention to the flip-flop of the Communist party and its adherents before and after the German-Russian nonaggression pact. Unfortunately, his criticism of the National War Labor Board leads him to overlook the fact that the Board's policies, while trying to maintain some degree of wage control, also set the stage for an unprecendented growth in fringe benefits.
An undue emphasis on political radicalism and its effects on organized labor mars chapter 4 . While the candidacy of Henry A. Wallace did garner some support from a few unions and while Jay Lovestone was indeed an interesting figure in the top echelon of the AFL, the extended discussion
given to these matters is likely to leave the general reader with the impression that all of this was of major concern to workers and their unions. Even more regrettable are several characterizations such as ". . . the ouster of the Communistoriented elements in 1949-50 and the attacks on the expelled affiliates . . . usually degenerated into repression and violence." It needs to be remembered that, for example, the contest between the International Union of Electrical, Radio and Machine Workers (IUE) and the United Electrical, Radio and Machine Workers of America (UE) was decided in representation elections conducted by the National Labor Relations Board, and not by strong-arm tactics.

Chapter 5 describes the merger between the AFL-CIO in 1955 and the surprising gains scored by unions among workers in the public sector. Chapter 6 takes us into the 1960's and closes with the defeat of Hubert Humphrey in 1968, described as labor's political "Last Hurrah," an event it can be argued that actually occurred as early as 1947.
In what appears to be an attempt to give the book greater currency, the author added a 7-page epilogue, "Into the Eighties." This, unfortunately, was a mistake since many issues facing labor are either barely referred to or are omitted altogether. It is hoped that the author will do full justice to these topics in the next edition.
-Harry P. Cohany
Department of Management George Mason University

Fairfax, vA

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(Signed) Henry Lowenstern, Editor-in-Chief

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## NOTES ON CURRENT LABOR STATISTICS

This section of the Review presents the principal statistical series collected and calculated by the Bureau of Labor Statistics: series on labor force, employment, unemployment, collective bargaining settlements, consumer, producer, and international prices, productivity, international comparisons, and injury and illness statistics. In the notes that follow, the data in each group of tables are briefly described, key definitions are given, notes on the data are set forth, and sources of additional information are cited.

## General notes

The following notes apply to several tables in this section:
Seasonal adjustment. Certain monthly and quarterly data are adjusted to eliminate the effect on the data of such factors as climatic conditions, industry production schedules, opening and closing of schools, holiday buying periods, and vacation practices, which might prevent short-term evaluation of the statistical series. Tables containing data that have been adjusted are identified as "seasonally adjusted." (All other data are not seasonally adjusted.) Seasonal effects are estimated on the basis of past experience. When new seasonal factors are computed each year, revisions may affect seasonally adjusted data for several preceding years. (Seasonally adjusted data appear in tables $1-3,4-10,13,14,17$, and 18.) Beginning in January 1980, the BLS introduced two major modifications in the seasonal adjustment methodology for labor force data. First, the data are seasonally adjusted with a procedure called $x-11$ ARIMA, which was developed at Statistics Canada as an extension of the standard $x-11$ method previously used by bls. A detailed description of the procedure appears in The X-11 arIma Seasonal Adjustment Method by Estela Bee Dagum (Statistics Canada, Catalogue No. 12-564E, February 1980). The second change is that seasonal factors are calculated for use during the first 6 months of the year, rather than for the entire year, and then are calculated at midyear for the July-December period. However, revisions of historical data continue to be made only at the end of each calendar year.
Seasonally adjusted labor force data in tables 1 and 4-10 were revised in the February 1986 issue of the Review, to reflect experience through 1985.

Annual revisions of the seasonally adjusted payroll data shown in tables 13,14 , and 18 were made in the July 1986 Review using the X-11 ARImA seasonal adjustment methodology. New seasonal factors for productivity data in table 42 are usually introduced in the September issue. Seasonally adjusted indexes and percent changes from month to month and from quarter to quarter are published for numerous Consumer and Producer Price Index series. However, seasonally adjusted indexes are not published for the U.S. average All Items CPI. Only seasonally adjusted percent changes are available for this series.

Adjustments for price changes. Some data-such as the Hourly Earnings Index in table 17-are adjusted to eliminate the effect of changes in price. These adjustments are made by dividing current dollar values by the Consumer Price Index or the appropriate component of the index, then multiplying by 100 . For example, given a current hourly wage rate of $\$ 3$ and a current price index number of 150 , where $1967=100$, the hourly rate expressed in 1967 dollars is $\$ 2(\$ 3 / 150 \times 100=\$ 2)$. The $\$ 2$ (or any other resulting values) are described as "real," "constant," or "1967" dollars.

## Additional information

Data that supplement the tables in this section are published by the Bureau in a variety of sources. News releases provide the latest statistical information published by the Bureau; the major recurring releases are published according to the schedule preceding these general notes. More information about labor force, employment, and unemployment data and the household and establishment surveys underlying the data are available in Employment and Earnings, a monthly publication of the Bureau. More data from the household survey are published in the two-volume data book-Labor Force Statistics Derived From the Current Population Survey, Bulletin 2096. More data from the establishment survey appear in two data books-Employment, Hours, and Earnings, United States, and Employment, Hours, and Earnings, States and Areas, and the annual supplements to these data books. More detailed information on employee compensation and collective bargaining settlements is published in the monthly periodical, Current Wage Developments. More detailed data on consumer and producer prices are published in the monthly periodicals, The CPI Detailed Report, and Producer Prices and Price Indexes. Detailed data on all of the series in this section are provided in the Handbook of Labor Statistics, which is published biennally by the Bureau. BLS bulletins are issued covering productivity, injury and illness, and other data in this section. Finally, the Monthly Labor Review carries analytical articles on annual and longer term developments in labor force, employment, and unemployment; employee compensation and collective bargaining; prices; productivity; international comparisons; and injury and illness data.

## Symbols

$\mathrm{p}=$ preliminary. To increase the timeliness of some series, preliminary figures are issued based on representative but incomplete returns.
$r=$ revised. Generally, this revision reflects the availability of later data but may also reflect other adjustments.
n.e.c. $=$ not elsewhere classified.
n.e.s. $=$ not elsewhere specified.

## COMPARATIVE INDICATORS

(Tables 1-3)

Comparative indicators tables provide an overview and comparison of major BLS statistical series. Consequently, although many of the included series are available monthly, all measures in these comparative tables are presented quarterly and annually.

Labor market indicators include employment measures from two major surveys and information on rates of change in compensation provided by the Employment Cost Index (ECI) program. The labor force participation rate, the employment-to-population ratio, and unemployment rates for major demographic groups based on the Current Population ("household ") Survey are presented, while measures of employment and average weekly hours by major industry sector are given using nonagricultural payroll data. The Employment Cost Index (compensation), by major sector and by
bargaining status, is chosen from a variety of BLS compensation and wage measures because it provides a comprehensive measure of employer costs for hiring labor, not just outlays for wages, and it is not affected by employment shifts among occupations and industries.

Data on changes in compensation, prices, and productivity are presented in table 2. Measures of rates of change of compensation and wages from the Employment Cost Index program are provided for all civilian nonfarm workers (excluding Federal and household workers) and for all private nonfarm workers. Measures of changes in: consumer prices for all urban consumers; producer prices by stage of processing; and the overall export and import price indexes are given. Measures of productivity (output per hour of all persons) are provided for major sectors.

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Alternative measures of wage and compensation rates of change, which reflect the overall trend in labor costs, are summarized in table 3. Differences in concepts and scope, related to the specific purposes of the series, contribute to the variation in changes among the individual measures.

## Notes on the data

Definitions of each series and notes on the data are contained in later
sections of these notes describing each set of data. For detailed descriptions of each data series, see BLS Handbook of Methods, Volumes I and II, Bulletins 2134-1 and 2134-2 (Bureau of Labor Statistics, 1982 and 1984, respectively), as well as the additional bulletins, articles, and other publications noted in the separate sections of the Review's "Current Labor Statistics Notes." Historical data for many series are provided in the Handbook of Labor Statistics, Bulletin 2217 (Bureau of Labor Statistics, 1985). Users may also wish to consult Major Programs, Bureau of Labor Statistics, Report 718 (Bureau of Labor Statistics, 1985).

## EMPLOYMENT DATA

(Tables 1; 4-21)

## Household survey data

## Description of the series

EMPLOYMENT DATA in this section are obtained from the Current Population Survey, a program of personal interviews conducted monthly by the Bureau of the Census for the Bureau of Labor Statistics. The sample consists of about 59,500 households selected to represent the U.S. population 16 years of age and older. Households are interviewed on a rotating basis, so that three-fourths of the sample is the same for any 2 consecutive months.

## Definitions

Employed persons include (1) all civilians who worked for pay any time during the week which includes the 12 th day of the month or who worked unpaid for 15 hours or more in a family-operated enterprise and (2) those who were temporarily absent from their regular jobs because of illness, vacation, industrial dispute, or similar reasons. Members of the Armed Forces stationed in the United States are also included in the employed total. A person working at more than one job is counted only in the job at which he or she worked the greatest number of hours.

Unemployed persons are those who did not work during the survey week, but were available for work except for temporary illness and had looked for jobs within the preceding 4 weeks. Persons who did not look for work because they were on layoff or waiting to start new jobs within the next 30 days are also counted among the unemployed. The overall unemployment rate represents the number unemployed as a percent of the labor force, including the resident Armed Forces. The civilian unemployment rate represents the number unemployed as a percent of the civilian labor force.
The labor force consists of all employed or unemployed civilians plus members of the Armed Forces stationed in the United States. Persons not in the labor force are those not classified as employed or unemployed; this group includes persons who are retired, those engaged in their own housework, those not working while attending school, those unable to work because of long-term illness, those discouraged from seeking work because of personal or job market factors, and those who are voluntarily idle. The noninstitutional population comprises all persons 16 years of age and older who are not inmates of penal or mental institutions, sanitariums, or homes for the aged, infirm, or needy, and members of the Armed Forces stationed in the United States. The labor force participation rate is the proportion of the noninstitutional population that is in the labor force. The employment-population ratio is total employment (including the resident Armed Forces) as a percent of the noninstitutional population.

## Notes on the data

From time to time, and especially after a decennial census, adjustments are made in the Current Population Survey figures to correct for estimating errors during the preceding years. These adjustments affect the comparability of historical data. A description of these adjustments and their effect on
the various data series appear in the Explanatory Notes of Employment and Earnings.

Data in tables 4-10 are seasonally adjusted, based on the seasonal experience through December 1985.

## Additional sources of information

For detailed explanations of the data, see BLS Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 1, and for additional data, Handbook of Labor Statistics, Bulletin 2217 (Bureau of Labor Statistics, 1985). A detailed description of the Current Population Survey as well as additional data are available in the monthly Bureau of Labor Statistics periodical, Employment and Earnings. Historical data from 1948 to 1981 are available in Labor Force Statistics Derived from the Current Population Survey: A Databook, Vols. I and II, Bulletin 2096 (Bureau of Labor Statistics, 1982).

A comprehensive discussion of the differences between household and establishment data on employment appears in Gloria P. Green, "Comparing employment estimates from household and payroll surveys," Monthly Labor Review, December 1969, pp. 9-20.

## Establishment survey data

## Description of the series

Employment, hours, and Earnings data in this section are compiled from payroll records reported monthly on a voluntary basis to the Bureau of Labor Statistics and its cooperating State agencies by more than 250,000 establishments representing all industries except agriculture. In most industries, the sampling probabilities are based on the size of the establishment; most large establishments are therefore in the sample. (An establishment is not necessarily a firm; it may be a branch plant, for example, or warehouse.) Self-employed persons and others not on a regular civilian payroll are outside the scope of the survey because they are excluded from establishment records. This largely accounts for the difference in employment figures between the household and establishment surveys.

## Definitions

An establishment is an economic unit which produces goods or services (such as a factory or store) at a single location and is engaged in one type of economic activity.

Employed persons are all persons who received pay (including holiday and sick pay) for any part of the payroll period including the 12 th of the month. Persons holding more than one job (about 5 percent of all persons in the labor force) are counted in each establishment which reports them.

Production workers in manufacturing include working supervisors and all nonsupervisory workers closely associated with production operations. Those workers mentioned in tables 12-17 include production workers in manufacturing and mining; construction workers in construction; and nonsupervisory workers in the following industries: transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and
services. These groups account for about four-fifths of the total employment on private nonagricutural payrolls.

Earnings are the payments production or nonsupervisory workers receive during the survey period, including premium pay for overtime or late-shift work but excluding irregular bonuses and other special payments. Real earnings are earnings adjusted to reflect the effects of changes in consumer prices. The deflator for this series is derived from the Consumer Price Index for Urban Wage Earners and Clerical Workers (CPI-W). The Hourly Earnings Index is calculated from average hourly earnings data adjusted to exclude the effects of two types of changes that are unrelated to underlying wage-rate developments: fluctuations in overtime premiums in manufacturing (the only sector for which overtime data are available) and the effects of changes and seasonal factors in the proportion of workers in high-wage and low-wage industries.

Hours represent the average weekly hours of production or nonsupervisory workers for which pay was received and are different from standard or scheduled hours. Overtime hours represent the portion of gross average weekly hours which were in excess of regular hours and for which overtime premiums were paid.

The Diffusion Index, introduced in the May 1983 Review, represents the percent of 185 nonagricultural industries in which employment was rising over the indicated period. One-half of the industries with unchanged employment are counted as rising. In line with Bureau practice, data for the 1-, 3-, and 6-month spans are seasonally adjusted, while those for the 12 -month span are unadjusted. The diffusion index is useful for measuring the dispersion of economic gains or losses and is also an economic indicator.

## Notes on the data

Establishment data collected by the Bureau of Labor Statistics are periodically adjusted to comprehensive counts of employment (called "benchmarks"). The latest complete adjustment was made with the release of May 1986 data, published in the July 1986 issue of the Review. Consequently, data published in the Review prior to that issue are not necessarily comparable to current data. Unadjusted data have been revised back to April 1984; seasonally adjusted data have been revised back to January 1981. These revisions were published in the Supplement to Employment and Earnings (Bureau of Labor Statistics, 1986). Unadjusted data from April 1985 forward, and seasonally adjusted data from January 1982 forward are subject to revision in future benchmarks.

In the establishment survey, estimates for the 2 most recent months are based on incomplete returns and are published as preliminary in the tables ( 13 to 16 in the Review). When all returns have been received, the estimates are revised and published as final in the third month of their appearance. Thus, August data are published as preliminary in October and November and as final in December. For the same reason, quarterly establishment data (table 1) are preliminary for the first 2 months of publication and final in the third month. Thus, second-quarter data are published as preliminary in August and September and as final in October.

## Additional sources of information

Detailed data from the establishment survey are published monthly in the bLS periodical, Employment and Earnings. Earlier comparable unadjusted and seasonally adjusted data are published in Employment, Hours, and Earnings, United States, 1909-84, Bulletin 1312-12 (Bureau of Labor Statistics, 1985) and its annual supplement. For a detailed discussion of the methodology of the survey, see BLS Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 2. For additional data, see Handbook of Labor Statistics, Bulletin 2217 (Bureau of Labor Statistics, 1985).

A comprehensive discussion of the differences between household and establishment data on employment appears in Gloria P. Green, "Comparing employment estimates from household and payroll surveys," Monthly Labor Review, December 1969, pp. 9-20.

## Unemployment data by State

## Description of the series

Data presented in this section are obtained from two major sources-the Current Population Survey (CPS) and the Local Area Unemployment Statistics (LAUS) program, which is conducted in cooperation with State employment security agencies.

Monthly estimates of the labor force, employment, and unemployment for States and sub-State areas are a key indicator of local economic conditions and form the basis for determining the eligibility of an area for benefits under Federal economic assistance programs such as the Job Training Partnership Act and the Public Works and Economic Development Act. Insofar as possible, the concepts and definitions underlying these data are those used in the national estimates obtained from the CPS.

## Notes on the data

Data refer to State of residence. Monthly data for 11 States-California, Florida, Illinois, Massachusetts, Michigan, New York, New Jersey, North Carolina, Ohio, Pennsylvania, and Texas-are obtained directly from the CPS, because the size of the sample is large enough to meet BLS standards of reliability. Data for the remaining 39 States and the District of Columbia are derived using standardized procedures established by BLS. Once a year, estimates for the 11 States are revised to new population controls. For the remaining States and the District of Columbia, data are benchmarked to annual average CPS levels.

## Additional sources of information

Information on the concepts, definitions, and technical procedures used to develop labor force data for States and sub-State areas as well as additional data on sub-States are provided in the monthly Bureau of Labor Statistics periodical, Employment and Earnings, and the annual report, Geographic Profile of Employment and Unemployment (Bureau of Labor Statistics). See also BLS Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 4.

## COMPENSATION AND WAGE DATA

## (Tables 1-3; 22-29)

COMPENSATION AND WAGE DATA are gathered by the Bureau from business establishments, State and local governments, labor unions, collective bargaining agreements on file with the Bureau, and secondary sources.

## Employment Cost Index

## Description of the series

The Employment Cost Index (ECI) is a quarterly measure of the rate of change in compensation per hour worked and includes wages, salaries, and employer costs of employee benefits. It uses a fixed market basket of
labor-similar in concept to the Consumer Price Index's fixed market basket of goods and services-to measure change over time in employer costs of employing labor. The index is not seasonally adjusted.

Statistical series on total compensation costs and on wages and salaries are available for private nonfarm workers excluding proprietors, the selfemployed, and household workers. Both series are also available for State and local government workers and for the civilian nonfarm economy, which consists of private industry and State and local government workers combined. Federal workers are excluded.

The Employment Cost Index probability sample consists of about 2,200 private nonfarm establishments providing about 12,000 occupational observations and 700 State and local government establishments providing

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3,500 occupational observations selected to represent total employment in each sector. On average, each reporting unit provides wage and compensation information on five well-specified occupations. Data are collected each quarter for the pay period including the 12th day of March, June, September, and December.

Beginning with June 1986 data, fixed employment weights from the 1980 Census of Population are used each quarter to calculate the indexes for civilian, private, and State and local governments. (Prior to June 1986, the employment weights are from the 1970 Census of Population.) These fixed weights, also used to derive all of the industry and occupation series indexes, ensure that changes in these indexes reflect only changes in compensation, not employment shifts among industries or occupations with different levels of wages and compensation. For the bargaining status, region, and metropolitan/nonmetropolitan area series, however, employment data by industry and occupation are not available from the census. Instead, the 1980 employment weights are reallocated within these series each quarter based on the current sample. Therefore, these indexes are not strictly comparable to those for the aggregate, industry, and occupation series.

## Definitions

Total compensation costs include wages, salaries, and the employer's costs for employee benefits.

Wages and salaries consist of earnings before payroll deductions, including production bonuses, incentive earnings, commissions, and cost-ofliving adjustments.

Benefits include the cost to employers for paid leave, supplemental pay (including nonproduction bonuses), insurance, retirement and savings plans, and legally required benefits (such as Social Security, workers' compensation, and unemployment insurance).

Excluded from wages and salaries and employee benefits are such items as payment-in-kind, free room and board, and tips.

## Notes on the data

The Employment Cost Index data series began in the fourth quarter of 1975, with the quarterly percent change in wages and salaries in the private nonfarm sector. Data on employer costs for employee benefits were included in 1980 to produce, when combined with the wages and salaries series, a measure of the percent change in employer costs for employee total compensation. State and local government units were added to the ECI coverage in 1981, providing a measure of total compensation change in the civilian nonfarm economy (excluding Federal employees). Historical indexes (June $1981=100$ ) of the quarterly rates of change are presented in the May issue of the bls monthly periodical, Current Wage Developments.

## Additional sources of information

For a more detailed discussion of the Employment Cost Index, see the Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 11, and the following Monthly Labor Review articles: "Employment Cost Index: a measure of change in the 'price of labor'," July 1975; "How benefits will be incorporated into the Employment Cost Index," January 1978; "Estimation procedures for the Employment Cost Index," May 1982; and "Introducing new weights for the Employment Cost Index," June 1985.

Data on the ECI are also available in BLS quarterly press releases issued in the month following the reference months of March, June, September, and December; and from the Handbook of Labor Statistics, Bulletin 2217 (Bureau of Labor Statistics, 1985).

## Collective bargaining settlements

## Description of the series

Collective bargaining settlements data provide statistical measures of negotiated adjustments (increases, decreases, and freezes) in compensation
(wage and benefit costs) and wages alone, quarterly for private industry and semiannually for State and local government. Compensation measures cover all collective bargaining situations involving 5,000 workers or more and wage measures cover all situations involving 1,000 workers or more. These data, covering private nonagricultural industries and State and local governments, are calculated using information obtained from bargaining agreements on file with the Bureau, parties to the agreements, and secondary sources, such as newspaper accounts. The data are not seasonally adjusted.

Settlement data are measured in terms of future specified adjustments: those that will occur within 12 months after contract ratification-first-year-and all adjustments that will occur over the life of the contract expressed as an average annual rate. Adjustments are worker weighted. Both first-year and over-the-life measures exclude wage changes that may occur under cost-of-living clauses that are triggered by future movements in the Consumer Price Index.

Effective wage adjustments measure all adjustments occurring in the reference period, regardless of the settlement date. Included are changes from settlements reached during the period, changes deferred from contracts negotiated in earlier periods, and changes under cost-of-living adjustment clauses. Each wage change is worker weighted. The changes are prorated over all workers under agreements during the reference period yielding the average adjustment.

## Definitions

Wage rate changes are calculated by dividing newly negotiated wages by the average hourly earnings, excluding overtime, at the time the agreement is reached. Compensation changes are calculated by dividing the change in the value of the newly negotiated wage and benefit package by existing average hourly compensation, which includes the cost of previously negotiated benefits, legally required social insurance programs, and average hourly earnings.

Compensation changes are calculated by placing a value on the benefit portion of the settlements at the time they are reached. The cost estimates are based on the assumption that conditions existing at the time of settlement (for example, methods of financing pensions or composition of labor force) will remain constant. The data, therefore, are measures of negotiated changes and not of total changes in employer cost.

Contract duration runs from the effective date of the agreement to the expiration date or first wage reopening date, if applicable. Average annual percent changes over the contract term take account of the compounding of successive changes.

## Notes on the data

Care should be exercised in comparing the size and nature of the settlements in State and local government with those in the private sector because of differences in bargaining practices and settlement characteristics. A principal difference is the incidence of cost-of-living adjustment (COLA) clauses which cover only about 2 percent of workers under a few local government settlements, but cover 50 percent of workers under private sector settlements. Agreements without COLA's tend to provide larger specified wage increases than those with cola's. Another difference is that State and local government bargaining frequently excludes pension benefits which are often prescribed by law. In the private sector, in contrast, pensions are typically a bargaining issue.

## Additional sources of information

For a more detailed discussion on the series, see the BLS Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 10. Comprehensive data are published in press releases issued quarterly (in January, April, July, and October) for private industry, and semi-
annually (in February and August) for State and local government. Historical data and additional detailed tabulations for the prior calendar year appear in the April issue of the BLS monthly periodical, Current Wage Developments.

## Work stoppages

## Description of the series

Data on work stoppages measure the number and duration of major strikes or lockouts (involving 1,000 workers or more) occurring during the month (or year), the number of workers involved, and the amount of time lost because of stoppage.

Data are largely from newspaper accounts and cover only establishments directly involved in a stoppage. They do not measure the indirect or secondary effect of stoppages on other establishments whose employees are idle owing to material shortages or lack of service.

## Definitions

Number of stoppages: The number of strikes and lockouts involving 1,000 workers or more and lasting a full shift or longer.

Workers involved: The number of workers directly involved in the stoppage.

Number of days idle: The aggregate number of workdays lost by workers involved in the stoppages.

Days of idleness as a percent of estimated working time: Aggregate workdays lost as a percent of the aggregate number of standard workdays in the period multiplied by total employment in the period.

## Notes on the data

This series is not comparable with the one terminated in 1981 that covered strikes involving six workers or more.

## Additional sources of information

Data for each calendar year are reported in a BLS press release issued in the first quarter of the following year. Monthly data appear in the bLS
monthly periodical, Current Wage Developments. Historical data appear in the BLS Handbook of Labor Statistics.

## Other compensation data

Other bLS data on pay and benefits, not included in the Current Labor Statistics section of the Monthly Labor Review, appear in and consist of the following:

Industry Wage Surveys provide data for specific occupations selected to represent an industry's wage structure and the types of activities performed by its workers. The Bureau collects information on weekly work schedules, shift operations and pay differentials, paid holiday and vacation practices, and information on incidence of health, insurance, and retirement plans. Reports are issued throughout the year as the surveys are completed. Summaries of the data and special analyses also appear in the Monthly Labor Review.

Area Wage Surveys annually provide data for selected office, clerical, professional, technical, maintenance, toolroom, powerplant, material movement, and custodial occupations common to a wide variety of industries in the areas (labor markets) surveyed. Reports are issued throughout the year as the surveys are completed. Summaries of the data and special analyses also appear in the Review.

The National Survey of Professional, Administrative, Technical, and Clerical Pay provides detailed information annually on salary levels and distributions for the types of jobs mentioned in the survey's title in private employment. Although the definitions of the jobs surveyed reflect the duties and responsibilities in private industry, they are designed to match specific pay grades of Federal white-collar employees under the General Schedule pay system. Accordingly, this survey provides the legally required information for comparing the pay of salaried employees in the Federal civil service with pay in private industry. (See Federal Pay Comparability Act of 1970, 5 U.S.C. 5305.) Data are published in a BLS news release issued in the summer and in a bulletin each fall; summaries and analytical articles also appear in the Review.

Employee Benefits Survey provides nationwide information on the incidence and characteristics of employee benefit plans in medium and large establishments in the United States, excluding Alaska and Hawaii. Data are published in an annual BLS news release and bulletin, as well as in special articles appearing in the Review.

## PRICE DATA

(Tables 2; 30-41)

Price data are gathered by the Bureau of Labor Statistics from retail and primary markets in the United States. Price indexes are given in relation to a base period $(1967=100$, unless otherwise noted).

## Consumer Price Indexes

## Description of the series

The Consumer Price Index (CPI) is a measure of the average change in the prices paid by urban consumers for a fixed market basket of goods and services. The CPI is calculated monthly for two population groups, one consisting only of urban households whose primary source of income is derived from the employment of wage earners and clerical workers, and the other consisting of all urban households. The wage earner index (CPI-W) is a continuation of the historic index that was introduced well over a halfcentury ago for use in wage negotiations. As new uses were developed for the CPI in recent years, the need for a broader and more representative index became apparent. The all urban consumer index (CPI-U) introduced in 1978 is representative of the 1972-73 buying habits of about 80 percent of the noninstitutional population of the United States at that time, compared with 40 percent represented in the CPI-w. In addition to wage earners and clerical
workers, the CPI-U covers professional, managerial, and technical workers, the self-employed, short-term workers, the unemployed, retirees, and others not in the labor force.

The CPI is based on prices of food, clothing, shelter, fuel, drugs, transportation fares, doctors' and dentists' fees, and other goods and services that people buy for day-to-day living. The quantity and quality of these items are kept essentially unchanged between major revisions so that only price changes will be measured. All taxes directly associated with the purchase and use of items are included in the index.
Data collected from more than 24,000 retail establishments and 24,000 tenants in 85 urban areas across the country are used to develop the "U.S. city average." Separate estimates for 28 major urban centers are presented in table 31. The areas listed are as indicated in footnote 1 to the table. The area indexes measure only the average change in prices for each area since the base period, and do not indicate differences in the level of prices among cities.

## Notes on the data

In January 1983, the Bureau changed the way in which homeownership costs are measured for the CPI-U. A rental equivalence method replaced the
asset-price approach to homeownership costs for that series. In January 1985, the same change was made in the CPI-w. The central purpose of the change was to separate shelter costs from the investment component of homeownership so that the index would reflect only the cost of shelter services provided by owner-occupied homes.

## Additional sources of information

For a discussion of the general method for computing the CPI, see BLS Handbook of Methods, Volume II, The Consumer Price Index, Bulletin 2134-2 (Bureau of Labor Statistics, 1984). The recent change in the measurement of homeownership costs is discussed in Robert Gillingham and Walter Lane, "Changing the treatment of shelter costs for homeowners in the CPI," Monthly Labor Review, June 1982, pp. 9-14.

Additional detailed CPI data and regular analyses of consumer price changes are provided in the CPI Detailed Report, a monthly publication of the Bureau. Historical data for the overall CPI and for selected groupings may be found in the Handbook of Labor Statistics, Bulletin 2217 (Bureau of Labor Statistics, 1985).

## Producer Price Indexes

## Description of the series

Producer Price Indexes (PPI) measure average changes in prices received in primary markets of the United States by producers of commodities in all stages of processing. The sample used for calculating these indexes currently contains about 3,200 commodities and about 60,000 quotations per month selected to represent the movement of prices of all commodities produced in the manufacturing, agriculture, forestry, fishing, mining, gas and electricity, and public utilities sectors. The stage of processing structure of Producer Price Indexes organizes products by class of buyer and degree of fabrication (that is, finished goods, intermediate goods, and crude materials). The traditional commodity structure of PPI organizes products by similarity of end use or material composition.
To the extent possible, prices used in calculating Producer Price Indexes apply to the first significant commercial transaction in the United States from the production or central marketing point. Price data are generally collected monthly, primarily by mail questionnaire. Most prices are obtained directly from producing companies on a voluntary and confidential basis. Prices generally are reported for the Tuesday of the week containing the 13th day of the month.

Since January 1976, price changes for the various commodities have been averaged together with implicit quantity weights representing their importance in the total net selling value of all commodities as of 1972. The detailed data are aggregated to obtain indexes for stage-of-processing groupings, commodity groupings, durability-of-product groupings, and a number of special composite groups. All Producer Price Index data are subject to revision 4 months after original publication.

## Notes on the data

Beginning with the January 1986 issue, the Review is no longer presenting tables of Producer Price Indexes for commodity groupings, special composite groups, or SIC industries. However, these data will continue to be presented in the Bureau's monthly publication Producer Price Indexes.

The Bureau has completed the first major stage of its comprehensive overhaul of the theory, methods, and procedures used to construct the Producer Price Indexes. Changes include the replacement of judgment sampling with probability sampling techniques; expansion to systematic coverage of the net output of virtually all industries in the mining and manufacturing sectors; a shift from a commodity to an industry orientation;
the exclusion of imports from, and the inclusion of exports in, the survey universe; and the respecification of commodities priced to conform to Bureau of the Census definitions. These and other changes have been phased in gradually since 1978. The result is a system of indexes that is easier to use in conjunction with data on wages, productivity, and employment and other series that are organized in terms of the Standard Industrial Classification and the Census product class designations.

## Additional sources of information

For a discussion of the methodology for computing Producer Price Indexes, see BLS Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 7.

Additional detailed data and analyses of price changes are provided monthly in Producer Price Indexes. Selected historical data may be found in the Handbook of Labor Statistics, Bulletin 2217 (Bureau of Labor Statistics, 1985).

## International price indexes

## Description of the series

The bls International Price Program produces quarterly export and import price indexes for nonmilitary goods traded between the United States and the rest of the world. The export price index provides a measure of price change for all products sold by U.S. residents to foreign buyers. ("Residents" is defined as in the national income accounts: it includes corporations, businesses, and individuals but does not require the organizations to be U.S. owned nor the individuals to have U.S. citizenship.) The import price index provides a measure of price change for goods purchased from other countries by U.S. residents. With publication of an all-import index in February 1983 and an all-export index in February 1984, all U.S. merchandise imports and exports now are represented in these indexes. The reference period for the indexes is $1977=100$, unless otherwise indicated.

The product universe for both the import and export indexes includes raw materials, agricultural products, semifinished manufactures, and finished manufactures, including both capital and consumer goods. Price data for these items are collected quarterly by mail questionnaire. In nearly all cases, the data are collected directly from the exporter or importer, although in a few cases, prices are obtained from other sources.

To the extent possible, the data gathered refer to prices at the U.S. border for exports and at either the foreign border or the U.S. border for imports. For nearly all products, the prices refer to transactions completed during the first 2 weeks of the third month of each calendar quarter-March, June, September, and December. Survey respondents are asked to indicate all discounts, allowances, and rebates applicable to the reported prices, so that the price used in the calculation of the indexes is the actual price for which the product was bought or sold.

In addition to general indexes of prices for U.S. exports and imports, indexes are also published for detailed product categories of exports and imports. These categories are defined by the 4-and 5-digit level of detail of the Standard Industrial Trade Classification System (SITC). The calculation of indexes by sITC category facilitates the comparison of U.S. price trends and sector production with similar data for other countries. Detailed indexes are also computed and published on a Standard Industrial Classification (sic-based) basis, as well as by end-use class.

## Notes on the data

The export and import price indexes are weighted indexes of the Laspeyres type. Price relatives are assigned equal importance within each weight category and are then aggregated to the sirc level. The values assigned to each weight category are based on trade value figures compiled
by the Bureau of the Census. The trade weights currently used to compute both indexes relate to 1980 .

Because a price index depends on the same items being priced from period to period, it is necessary to recognize when a product's specifications or terms of transaction have been modified. For this reason, the Bureau's quarterly questionnaire requests detailed descriptions of the physical and functional characteristics of the products being priced, as well as information on the number of units bought or sold, discounts, credit terms, packaging, class of buyer or seller, and so forth. When there are changes in either the specifications or terms of transaction of a product, the dollar value of each change is deleted from the total price change to obtain the "pure" change. Once this value is determined, a linking procedure is employed which allows for the continued repricing of the item.

For the export price indexes, the preferred pricing basis is f.a.s. (free alongside ship) U.S. port of exportation. When firms report export prices f.o.b. (free on board), production point information is collected which enables the Bureau to calculate a shipment cost to the port of exportation.

An attempt is made to collect two prices for imports. The first is the import price f.o.b. at the foreign port of exportation, which is consistent with the basis for valuation of imports in the national accounts. The second is the import price c.i.f. (cost, insurance, and freight) at the U.S. port of importation, which also includes the other costs associated with bringing the product to the U.S. border. It does not, however, include duty charges.

## Additional sources of information

For a discussion of the general method of computing International Price Indexes, see BLS Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 8.

Additional detailed data and analyses of international price developments are presented in the Bureau's quarterly publication U.S. Import and Export Price Indexes and in occasional Monthly Labor Review articles prepared by BLS analysts. Selected historical data may be found in the Handbook of Labor Statistics, Bulletin 2217 (Bureau of Labor Statistics, 1985).

## PRODUCTIVITY DATA

(Tables 2; 42-44)

## U. S. productivity and related data

## Description of the series

The productivity measures relate real physical output to real input. As such, they encompass a family of measures which include single factor input measures, such as output per unit of labor input (output per hour) or output per unit of capital input, as well as measures of multifactor productivity (output per unit of labor and capital inputs combined). The Bureau indexes show the change in output relative to changes in the various inputs. The measures cover the business, nonfarm business, manufacturing, and nonfinancial corporate sectors.

Corresponding indexes of hourly compensation, unit labor costs, unit nonlabor payments, and prices are also provided.

## Definitions

Output per hour of all persons (labor productivity) is the value of goods and services in constant prices produced per hour of labor input. Output per unit of capital services (capital productivity) is the value of goods and services in constant dollars produced per unit of capital services input.

Multifactor productivity is the ratio output per unit of labor and capital inputs combined. Changes in this measure reflect changes in a number of factors which affect the production process such as changes in technology, shifts in the composition of the labor force, changes in capacity utilization, research and development, skill and efforts of the work force, management, and so forth. Changes in the output per hour measures reflect the impact of these factors as well as the substitution of capital for labor.

Compensation per hour is the wages and salaries of employees plus employers' contributions for social insurance and private benefit plans, and the wages, salaries, and supplementary payments for the self-employed (except for nonfinancial corporations in which there are no self-employed)-the sum divided by hours paid for. Real compensation per hour is compensation per hour deflated by the change in the Consumer Price Index for All Urban Consumers.

Unit labor costs are the labor compensation costs expended in the production of a unit of output and are derived by dividing compensation by output. Unit nonlabor payments include profits, depreciation, interest, and indirect taxes per unit of output. They are computed by subtracting compensation of all persons from current dollar value of output and dividing by output. Unit nonlabor costs contain all the components of unit nonlabor payments except unit profits.

Unit profits include corporate profits and the value of inventory adjustments per unit of output.

Hours of all persons are the total hours paid of payroll workers, selfemployed persons, and unpaid family workers.

Capital services is the flow of services from the capital stock used in production. It is developed from measures of the net stock of physical assets-equipment, structures, land, and inventories-weighted by rental prices for each type of asset.

Labor and capital inputs combined are derived by combining changes in labor and capital inputs with weights which represent each component's share of total output. The indexes for capital services and combined units of labor and capital are based on changing weights which are averages of the shares in the current and preceding year (the Tornquist index-number formula).

## Notes on the data

Output measures for the business sector and the nonfarm businesss sector exclude the constant dollar value of owner-occupied housing, rest of world, households and institutions, and general government output from the constant dollar value of gross national product. The measures are derived from data supplied by the Bureau of Economic Analysis, U.S. Department of Commerce, and the Federal Reserve Board. Quarterly manufacturing output indexes are adjusted by the Bureau of Labor Statistics to annual estimates of output (gross product originating) from the Bureau of Economic Analysis. Compensation and hours data are developed from data of the Bureau of Labor Statistics and the Bureau of Economic Analysis.
The productivity and associated cost measures in tables 42-44 describe the relationship between output in real terms and the labor time and capital services involved in its production. They show the changes from period to period in the amount of goods and services produced per unit of input. Although these measures relate output to hours and capital services, they do not measure the contributions of labor, capital, or any other specific factor of production. Rather, they reflect the joint effect of many influences, including changes in technology; capital investment; level of output; utilization of capacity, energy, and materials; the organization of production; managerial skill; and the characteristics and efforts of the work force.

## Additional sources of information

Descriptions of methodology underlying the measurement of output per hour and multifactor productivity are found in the BLS Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 13. Historical data for selected industries are provided in the Bureau's Handbook of Labor Statistics, 1985, Bulletin 2217.

## INTERNATIONAL COMPARISONS <br> (Tables 45-47)

## Labor force and unemployment

## Description of the series

Tables 45 and 46 present comparative measures of the labor force, employment, and unemployment-approximating U.S. concepts-for the United States, Canada, Australia, Japan, and six European countries. The unemployment statistics (and, to a lesser extent, employment statistics) published by other industrial countries are not, in most cases, comparable to U.S. unemployment statistics. Therefore, the Bureau adjusts the figures for selected countries, where necessary, for all known major definitional differences. Although precise comparability may not be achieved, these adjusted figures provide a better basis for international comparisons than the figures regularly published by each country.

## Definitions

For the principal U.S. definitions of the labor force, employment, and unemployment, see the Notes section on EMPLOYMENT DATA: Household Survey Data.

## Notes on the data

The adjusted statistics have been adapted to the age at which compulsory schooling ends in each country, rather than to the U.S. standard of 16 years of age and over. Therefore, the adjusted statistics relate to the population age 16 and over in France, Sweden, and from 1973 onward, Great Britain; 15 and over in Canada, Australia, Japan, Germany, the Netherlands, and prior to 1973, Great Britain; and 14 and over in Italy. The institutional population is included in the denominator of the labor force participation rates and employment-population ratios for Japan and Germany; it is excluded for the United States and the other countries.

In the U.S. labor force survey, persons on layoff who are awaiting recall to their job are classified as unemployed. European and Japanese layoff practices are quite different in nature from those in the United States; therefore, strict application of the U.S. definition has not been made on this point. For further information, see Monthly Labor Review, December 1981, pp. 8-11.

The figures for one or more recent years for France, Germany, Great Britain, Italy, and the Netherlands are calculated using adjustment factors based on labor force surveys for earlier years and are considered preliminary. The recent-year measures for these countries are, therefore, subject to revision whenever data from more current labor force surveys become available.

## Additional sources of information

For further information, see International Comparisons of Unemployment, Bulletin 1979 (Bureau of Labor Statistics, 1978), Appendix B and unpublished Supplements to Appendix B available on request. The statistics are also analyzed periodically in the Monthly Labor Review. Additional historical data, generally beginning with 1959, are published in the Handbook of Labor Statistics and are available in unpublished statistical supplements to Bulletin 1979.

## Manufacturing productivity and labor costs

## Description of the series

Table 47 presents comparative measures of manufacturing labor productivity, hourly compensation costs, and unit labor costs for the United

States, Canada, Japan, and nine European countries. These measures are limited to trend comparisons-that is, intercountry series of changes over time-rather than level comparisons because reliable international comparisons of the levels of manufacturing output are unavailable.

## Definitions

Output is constant value output (value added), generally taken from the national accounts of each country. While the national accounting methods for measuring real output differ considerably among the 12 countries, the use of different procedures does not, in itself, connote lack of comparabil-ity-rather, it reflects differences among countries in the availability and reliability of underlying data series.

Hours refer to all employed persons including the self-employed in the United States and Canada; to all wage and salary employees in the other countries. The U.S. hours measure is hours paid; the hours measures for the other countries are hours worked.

Compensation (labor cost) includes all payments in cash or kind made directly to employees plus employer expenditures for legally required insurance programs and contractual and private benefit plans. In addition, for some countries, compensation is adjusted for other significant taxes on payrolls or employment (or reduced to reflect subsidies), even if they are not for the direct benefit of workers, because such taxes are regarded as labor costs. However, compensation does not include all items of labor cost. The costs of recruitment, employee training, and plant facilities and services-such as cafeterias and medical clinics-are not covered because data are not available for most countries. Self-employed workers are included in the U.S. and Canadian compensation figures by assuming that their hourly compensation is equal to the average for wage and salary employees.

## Notes on the data

For most of the countries, the measures refer to total manufacturing as defined by the International Standard Industrial Classification. However, the measures for France (beginning 1959), Italy (beginning 1970), and the United Kingdom (beginning 1976), refer to manufacturing and mining less energy-related products and the figures for the Netherlands exclude petroleum refining from 1969 to 1976 . For all countries, manufacturing includes the activities of government enterprises.
The figures for one or more recent years are generally based on current indicators of manufacturing output, employment, hours, and hourly compensation and are considered preliminary until the national accounts and other statistics used for the long-term measures become available.

## Additional sources of information

For additional information, see the BLS Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 16 and periodic Monthly Labor Review articles. Historical data are provided in the Bureau's Handbook of Labor Statistics, Bulletin"2217, 1985. The statistics are issued twice per year-in a news release (generally in May) and in a Monthly Labor Review article (generally in December).

## Description of the series

The Annual Survey of Occupational Injuries and Illnesses is designed to collect data on injuries and illnesses based on records which employers in the following industries maintain under the Occupational Safety and Health Act of 1970: agriculture, forestry, and fishing; oil and gas extraction; construction; manufacturing; transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services. Excluded from the survey are self-employed individuals, farmers with fewer than 11 employees, employers regulated by other Federal safety and health laws, and Federal, State, and local government agencies.

Because the survey is a Federal-State cooperative program and the data must meet the needs of participating State agencies, an independent sample is selected for each State. The sample is selected to represent all private industries in the States and territories. The sample size for the survey is dependent upon (1) the characteristics for which estimates are needed; (2) the industries for which estimates are desired; (3) the characteristics of the population being sampled; (4) the target reliability of the estimates; and (5) the survey design employed.

While there are many characteristics upon which the sample design could be based, the total recorded case incidence rate is used because it is one of the most important characteristics and the least variable; therefore, it requires the smallest sample size.

The survey is based on stratified random sampling with a Neyman allocation and a ratio estimator. The characteristics used to stratify the establishments are the Standard Industrial Classification (SIC) code and size of employment.

## Definitions

Recordable occupational injuries and illnesses are: (1) occupational deaths, regardless of the time between injury and death, or the length of the illness; or (2) nonfatal occupational illnesses; or (3) nonfatal occupational injuries which involve one or more of the following: loss of consciousness, restriction of work or motion, transfer to another job, or medical treatment (other than first aid).

Occupational injury is any injury such as a cut, fracture, sprain, amputation, and so forth, which results from a work accident or from exposure involving a single incident in the work environment.

Occupational illness is an abnormal condition or disorder, other than one resulting from an occupational injury, caused by exposure to environmental factors associated with employment. It includes acute and chronic illnesses or disease which may be caused by inhalation, absorption, ingestion, or direct contact.

Lost workday cases are cases which involve days away from work, or days of restricted work activity, or both.

Lost workday cases involving restricted work activity are those cases which result in restricted work activity only.

Lost workdays away from work are the number of workdays (consecutive or not) on which the employee would have worked but could not because of occupational injury or illness.

Lost workdays-restricted work activity are the number of workdays (consecutive or not) on which, because of injury or illness: (1) the employee was assigned to another job on a temporary basis; or (2) the em-
ployee worked at a permanent job less than full time; or (3) the employee worked at a permanently assigned job but could not perform all duties normally connected with it.

The number of days away from work or days of restricted work activity does not include the day of injury or onset of illness or any days on which the employee would not have worked even though able to work.

Incidence rates represent the number of injuries and/or illnesses or lost workdays per 100 full-time workers.

## Notes on the data

Estimates are made for industries and employment-size classes and for severity classification: fatalities, lost workday cases, and nonfatal cases without lost workdays. Lost workday cases are separated into those where the employee would have worked but could not and those in which work activity was restricted. Estimates of the number of cases and the number of days lost are made for both categories.

Most of the estimates are in the form of incidence rates, defined as the number of injuries and illnesses, or lost workdays, per 100 full-time employees. For this purpose, 200,000 employee hours represent 100 em ployee years ( 2,000 hours per employee). Only a few of the available measures are included in the Handbook of Labor Statistics. Full detail is presented in the annual bulletin, Occupational Injuries and Illnesses in the United States, by Industry.

Comparable data for individual States are available from the BLS Office of Occupational Safety and Health Statistics.

Mining and railroad data are furnished to BLS by the Mine Safety and Health Administration and the Federal Railroad Administration, respectively. Data from these organizations are included in BLS and State publications. Federal employee experience is compiled and published by the Occupational Safety and Health Administration. Data on State and local government employees are collected by about half of the States and territories; these data are not compiled nationally.

## Additional sources of information

The Supplementary Data System provides detailed information describing various factors associated with work-related injuries and illnesses. These data are obtained from information reported by employers to State workers' compensation agencies. The Work Injury Report program examines selected types of accidents through an employee survey which focuses on the circumstances surrounding the injury. These data are not included in the Handbook of Labor Statistics but are available from the BLS Office of Occupational Safety and Health Statistics.

The definitions of occupational injuries and illnesses and lost workdays are from Recordkeeping Requirements under the Occupational Safety and Health Act of 1970 . For additional data, see Occupational Injuries and Illnesses in the United States, by Industry, annual Bureau of Labor Statistics bulletin; BLS Handbook of Methods, Bulletin 2134-1 (Bureau of Labor Statistics, 1982), chapter 17; Handbook of Labor Statistics, Bulletin 2217 (Bureau of Labor Statistics, 1985), pp. 411-14; annual reports in the Monthly Labor Review; and annual U.S. Department of Labor press releases.

MONTHLY LABOR REVIEW November 1986 - Current Labor Statistics: Comparative Indicators

1. Labor market indicators

| Selected indicators | 1984 | 1985 | 1984 |  | 1985 |  |  |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | III | IV | 1 | II | III | IV | I | II |
| Employment data |  |  |  |  |  |  |  |  |  |  |
| Employment status of the civilian noninstitutionalized population (household survey) ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Labor Force participation rate .................................................... | 64.4 | 64.8 | 64.4 | 64.5 | 64.8 | 64.7 | 64.7 | 64.9 | 60.5 | 65.3 60.6 |
| Employment-population ratio ..................................................... | 59.5 | 60.1 | 59.7 | 59.8 | 60.1 | 60.0 | 60.1 | 60.4 | 60.5 | 60.6 |
| Unemployment rate .................................................................. | 7.5 | 7.2 | 7.4 | 7.2 | 7.3 | 7.3 | 7.2 | 7.0 | 7.1 | 7.2 |
| Men ........................................................................................ | 7.4 | 7.0 | 7.3 | 7.1 | 7.1 | 7.1 | 7.0 | 6.9 | 6.8 | 7.1 |
| 16 to 24 years | 14.4 | 14.1 | 14.5 | 13.8 | 14.1 | 14.2 | 14.0 | 14.0 | 13.3 | 14.5 5.4 |
| 25 years and over | 5.7 | 5.3 | 5.5 | 5.4 | 5.4 | 5.4 | 5.3 | 5.2 | 5.3 | 5.4 7.3 |
| Women ................................................................................... | 7.6 | 7.4 | 7.6 | 7.5 | 7.6 | 7.5 | 7.4 12.7 | 7.2 13.1 | 7.3 13.2 | 7.3 13.2 |
| 16 to 24 years ..................................................................... | 13.3 | 13.0 | 13.1 | 12.9 | 13.1 | 13.0 6.0 | 12.7 5.9 | 13.1 5.5 | 13.2 5.7 | 13.2 5.7 |
| 25 years and over ................................................................ | 6.0 | 5.9 | 6.0 | 5.9 | 6.0 | 6.0 2.0 | 5.9 2.0 | 5.5 1.9 | 5.7 1.9 | 1.9 |
| Unemployment rate, 15 weeks and over ................................... | 2.4 | 2.0 | 2.3 | 2.1 | 2.0 |  |  |  |  |  |
| Employment, nonagricultural (payroll data), in thousands: ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Total | 94,496 | 97,614 | 94,977 | 95,907 | 96,581 | 97,295 | 97,897 | 98,668 | 99,403 | 99.848 |
| Private sector | 78,472 | 81,199 | 78,914 | 79,736 | 80,341 | 80,958 | 81,414 | 82,069 | 82,731 | 83,144 |
| Goods-producing | 24,727 | 24,930 | 24,891 | 24,943 | 24,970 | 24,947 | 24,866 | 24,937 | 25,028 | 24,952 |
| Manufacturing . | 19,378 | 19,314 | 19,489 | 19,486 | 19,439 | 19,323 | 19,241 | 19,261 | 19,284 | 19,194 |
| Service-producing ..................................................................... | 69,769 | 72,684 | 70,086 | 70,964 | 71,611 | 72,347 | 73,031 | 73,731 |  | 74,896 |
| Average hours |  |  |  | 35.1 |  | 34.9 | 34.9 |  | 34.9 | 34.8 |
| Private sector .............................................................................. | 35.2 | 34.9 | 35.1 40.6 | 40.5 | 35.0 40.4 | 34.3 40.4 | 34.9 40.6 | 34.9 408 | 34.9 40.7 | 44.8 |
| Manufacturing ........................................................................... | 40.7 3.4 | 40.5 3.3 | 40.6 3.3 | 40.5 3.4 | 40.4 3.3 | 40.4 3.2 | 40.6 3.3 | 40.8 3.5 | 40.7 3.4 | 40.7 3.4 |
| Overtime .............................................................................. | 3.4 | 3.3 | 3.3 | 3.4 | 3.3 | 3.2 | 3.3 | 3.5 | 3.4 |  |
| Employment Cost Index |  |  |  |  |  |  |  |  |  |  |
| Percent change in the ECI, compensation: ${ }^{2}$ |  |  |  |  |  | 7 | 1.6 | . 6 | 1.1 | . 7 |
| All workers (excluding farm, household, and Federal workers) ....... | - | - | 1.3 | 1.2 |  | 8 | 1.3 | . 6 | 1.1 | . 8 |
| Private industry workers ........................................................... | - | - | . 8 | 1.3 | 1.2 | . 8 | 1.3 | . 6 | 1.1 | . 8 |
| Goods-producing ${ }^{3}$................................................................. | - | - | . 9 | 1.1 | 1.5 | . 7 | . 6 | . 6 | 1.1 |  |
|  | - | - | . 7 | 1.4 | 1.0 | 1.0 | 1.8 | . 5 | 1.1 | . 6 |
| State and local government workers ........................................ | - | - | 3.5 | 1.0 | 1.2 | . 2 | 3.4 | .7 | 1.0 | . 6 |
| Workers by bargaining status (private industry) |  |  |  |  |  |  | 8 | . 5 | 1.0 | . 2 |
| Union .......................................................................................... | - | - | .7 .9 | 1.1 1.3 | 1.6 | 1.6 | 1.4 | . 6 | 1.2 | . 9 |
| Nonunion | - |  | . 9 |  |  |  |  |  |  |  |

[^24][^25]2. Annual and quarterly percent changes in compensation, prices, and productivity

| Selected measures | 1984 | 1985 | 1984 |  | 1985 |  |  |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | III | IV | 1 | II | III | IV | 1 | II |
| Compensation data: ${ }^{1,2}$ |  |  |  |  |  |  |  |  |  |  |
| Employment Cost Index-compensation (wages, salaries, benefits) |  |  |  |  |  |  |  |  |  |  |
| Civilian nonfarm ............................................................ | - | - | 1.3 | 1.2 | 1.3 | 0.7 | 1.6 | 0.6 | 1.1 | 0.7 |
| Private nonfarm ......................................... | - | - | . 8 | 1.3 | 1.2 | . 8 | 1.3 | . 6 | 1.1 | . 8 |
| Employment Cost Index-wages and salaries |  |  |  |  |  |  |  |  |  |  |
| Civilian nonfarm ............................................................... | - | - | 1.3 | 1.2 | 1.2 | . 9 | 1.7 | . 6 | 1.0 | . 8 |
| Private nonfarm .............................................................. | - | - | . 8 | 1.2 | 1.2 | 1.1 | 1.3 | . 6 | 1.0 | . 9 |
| Price data ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| Consumer Price Index (All urban consumers): All items ....... | 4.0 | 3.8 | 1.2 | . 3 | 1.0 | 1.1 | . 7 | . 9 | -. 4 | . 6 |
| Producer Price Index |  |  |  |  |  |  |  |  |  |  |
| Finished goods | 1.7 | 1.8 | -. 5 | . 9 | . 0 | . 7 | -1.4 | 2.5 | -3.1 | . 3 |
| Finished consumer goods ............................................... | 1.6 | 1.5 | -. 5 | . 8 | -. 3 | . 7 | -1.4 | 2.5 | -4.1 | . 2 |
| Capital equipment | 1.8 | 2.7 | -. 5 | 1.1 | 1.3 | . 4 | -1.4 | 2.5 | . 2 | . 5 |
| Intermediate materials, supplies, components .................... | 1.3 | -. 3 | -. 4 | -. 1 | -. 4 | . 2 | -. 5 | . 4 | -2.9 | -. 8 |
| Crude materials ................................................................ | -1.6 | -5.6 | -2.0 | -1.2 | -3.1 | -2.1 | -4.5 | 4.3 | -7.6 | -2.2 |
| Productivity data ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons: |  |  |  |  |  |  |  |  |  |  |
| Business sector ..................... | 2.3 |  |  |  | . 9 |  | 3.4 |  |  |  |
| Nonfarm business sector ............................................... | 1.8 | . 5 | -.7 | -. 4 | 3 | 1.8 | 2.2 | -3.5 |  | -. 5 |
| Nonfinancial corporations ${ }^{4}$................................................................................. | 2.0 | 1.2 | -1.6 | 1.1 | 8 | 1.8 2.2 | 4.9 | -3.5 -2.8 | 4.3 -.5 | -.5 -2.3 |

${ }^{1}$ Annual changes are December-to-December change. Quarterly changes are calculated using the last month of each quarter. Compensation and price data are not seasonally adjusted and the price data are not compounded.
${ }^{2}$ Excludes Federal and private household workers.
${ }^{3}$ Annual rates of change are computed by comparing annual averages. Quarterly percent changes reflect annual rates of change in quarterly indexes. The data are seasonally adjusted.
${ }^{4}$ Output per hour of all employees.

- Data not available.

3. Alternative measures of wage and compensation changes

4. Employment status of the total population, by sex, monthly data seasonally adjusted

| Employment status | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Noninstitutional population ${ }^{1},{ }^{2}$.... | 178,080 | 179,912 | 180,304 | 180,470 | 180,642 | 180,810 | 181,361 | 181,512 | 181,678 | 181,843 | 181,998 | 182,183 | 182,354 | 182,525 | 182,713 |
| Labor force ${ }^{2}$................................ | 115,241 | 117,167 | 117,522 | 117,814 | 117,832 | 117,927 | 118,477 | 118,779 | 118,900 | 118,929 | 119,351 | 119,796 | 119,744 | 119,879 | 119,936 |
| Participation rate ${ }^{3}$........................................ | 64.7 | 65.1 | 65.2 | 65.3 | 65.2 | 65.2 | 65.3 | 65.4 | 65.4 | 65.4 | 65.6 | 65.8 111.353 | 65.7 111.554 | 65.7 | 65.6 111,607 |
| Total employed ${ }^{2}$....................... | 106,702 | 108,856 | 109,251 | 109,513 | 109,671 | 109,904 | 110,646 | 110,252 | 110,481 | 110,587 | 110,797 | 111,353 | 111,554 | 111,852 | 111,607 |
| Employment-population ratio ${ }^{4}$ $\qquad$ | 59.9 | 60.5 | 60.6 | 60.7 | 60.7 | 60.8 | 61.0 | 60.7 | 60.8 | 60.8 | 60.9 1.687 | 61.1 1.680 | 61.2 1,672 | 61.3 1,697 | 61.1 1,716 |
| Resident Armed Forces ${ }^{1}$......... | 1,697 | 1,706 | 1,732 | 1,700 | 1,702 | 1,698 | 1,691 | 1,691 | 1,693 | 1,695 108,892 | 1,687 109,110 | 1,680 109,673 | 1,672 109,882 | 1,697 | 1,716 109,891 |
| Civilian employed .................... | 105,005 | 107,150 | 107,519 | 107,813 | 107,969 | 108,206 | 108,955 | 108,561 | 108,788 3,285 | 108,892 3,222 | 109,110 3,160 | 109,673 3,165 | 109,882 3,112 | 110,155 3,048 107,107 | 109,891 3,121 |
| Agriculture ........................... | 3,321 | 3,179 | 3,017 | 3,058 | 3,070 | 3,151 | 3,299 | 3,096 105,465 | 3,285 105,503 | 3,222 | 3,160 105,950 | 106,508 | 106,769 | 107,107 | 106,770 |
| Nonagricultural industries ...... | 101,685 8,539 | 103,971 8,312 | 104,502 8,271 | 104,755 8,301 | 104,899 8,161 | 105,055 8,023 | 105,655 7,831 | 105,465 8,527 | 105,503 8,419 | 105,670 8,342 | 105,950 8,554 | 106,508 8,443 | 106,769 8,190 | $\begin{array}{r}\text { 8,027 } \\ \hline\end{array}$ | 106,770 8,329 |
| Unemployed.. | 8,539 | 8,312 7.1 | 8,271 7.0 | 8,301 7.0 | 8,161 6.9 | 8,023 | 7,831 6.6 | 8,527 7.2 | 8,419 7.1 | 8,342 7.0 | 8,554 7.2 | 8,443 7.0 | 8, 6.8 | 6,7 | 8,329 |
| Not in labor force | 62,839 | 62,744 | 62,782 | 62,656 | 62,810 | 62,883 | 62,885 | 62,733 | 62,778 | 62,914 | 62,647 | 62,387 | 62,610 | 62,646 | 62,777 |
| Men, 16 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Noninstitutional population ${ }^{1},{ }^{2}$ | 85,156 | 86,025 | 86,217 | 86,293 | 86,374 | 86,459 | 86,882 | 86,954 | 87,035 | 87,120 | 87,195 | 87,288 | 87,373 | 87,460 | 87,556 |
| Labor force ${ }^{2}$............................... | 65,386 | 65,967 | 66,074 | 66,227 | 66,176 | 66,139 | 66,679 | 66,838 | 66,864 | 66,757 | 66,943 | 66,964 | 66,936 | 66,944 765 | 67,094 76.6 |
| Participation rate ${ }^{3}$................ | 76.8 | 76.7 | 76.6 | 76.7 | 76.6 | 76.5 | 76.7 | 76.9 | 76.8 | 76.6 6254 | 76.8 62.190 | 76.7 62322 | 76.6 62.365 | 76.5 62.515 | 76.6 62,483 |
| Total employed ${ }^{2}$....................... | 60,642 | 61,447 | 61,629 | 61,656 | 61,731 | 61,793 | 62,458 | 62,243 | 62,288 | 62,254 | 62,190 | 62,322 | 62,365 | 62,515 | 62,483 |
| Employment-population ratio ${ }^{4}$ $\qquad$ | 71.2 | 71.4 | 71.5 | 71.4 | 71.5 | 71.5 | 71.9 | 71.6 1.539 | 71.6 1.540 | 71.5 1.541 | 71.3 1.533 | 71.4 1.525 | 71.4 1,518 | 71.5 1.541 | 71.4 1.560 |
| Resident Armed Forces ${ }^{1}$........ | 1,551 | 1,556 | 1,580 | 1,551 | 1,552 | 1,549 | 1,539 60,919 | 1,539 60,704 | 1,540 60,748 | 1,541 60,713 | 1,533 60,657 | 1,525 60,797 | 1,518 60,847 | 60,974 | 1,560 60,923 |
| Civilian employed .................... | 59,091 | 59,891 | 60,049 | 60,105 | 60,179 | 60,244 4,346 | 60,919 4,221 | 60,704 4,595 | 60,748 4,577 | 60,713 4,503 | 60,657 4,754 | 60,797 4,642 | 60,847 4,571 | 60,974 4,429 | 60,923 4,611 |
| Unemployed ............................. | 4,744 7.3 | 4,521 6.9 | 4,445 6.7 | 4,571 6.9 | 4,445 6.7 | 4,346 6.6 | 4,221 6.3 | 4,595 6.9 | 4,577 6.8 | 4,503 6.7 | 4,754 7.1 | 4,642 6.9 | 4,571 6.8 | 4,429 6.6 | $\begin{array}{r}\text { 4,617 } \\ \hline 6.9\end{array}$ |
| Women, 16 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Noninstitutional population ${ }^{1}, 2$ | 92,924 | 93,886 | 94,087 | 94,177 | 94,266 | 94,351 | 94,479 | 94,558 | 94,643 | 94,723 | 94,803 | 94,895 | 94,981 | 95,065 | 95,156 |
| Labor force ${ }^{2}$............................... | 49,855 | 51,200 | 51,448 | 51,587 | 51,655 | 51,788 | 51,797 | 51,941 | 52,036 | 52,172 | 52,408 | 52,832 | 52,808 | 52,935 | 52,842 55.5 |
| Participation rate ${ }^{3}$................. | 53.7 | 54.5 | 54.7 | 54.8 | 54.8 | 54.9 | 54.8 | 54.9 | 55.0 | 55.1 | 55.3 | 55.7 | 55.6 | 55.7 493 | 55.5 |
| Total employed ${ }^{2}$........................ | 46,061 | 47,409 | 47,622 | 47,857 | 47,939 | 48,111 | 48,187 | 48,009 | 48,194 | 48,333 | 48,608 | 49,031 | 49,189 | 49,337 | 9,125 |
| Employment-population ratio ${ }^{4}$ $\qquad$ | 49.6 | 50.5 | 50.6 | 50.8 | 50.9 | 51.0 | 51.0 | 50.8 | 50.9 153 | 51.0 154 | 51.3 154 | 51.7 155 | 51.8 154 | 51.9 156 | 51.6 156 |
| Resident Armed Forces ${ }^{1}$........ | 146 | 150 | 152 | 149 | 149 | 149 | 152 | 152 4785 | 153 48.041 | 154 48.179 | 154 48,454 | 155 48,876 | 154 49,035 | 156 49,181 | 156 48,969 |
| Civilian employed .................... | 45,915 | 47,259 | 47,470 | 47,708 | 47,790 | 47,962 | 48,035 | 47,857 | 48,041 3,842 | 48,179 3,839 | 48,454 3,800 | 48,876 3,801 | 49,035 3,619 | 49,181 3,598 | 48,969 3,717 |
| Unemployed ............................. | 3,794 | 3,791 | 3,826 | 3,730 | 3,716 | 3,677 7,1 | 3,610 7.0 | 3,932 7.6 | 3,842 7.4 | 3,839 7.4 | 3,800 7.3 | 3,801 7.2 | 3,619 6.9 | 3,59 6.8 | 7.0 |
| Unemployment rate ${ }^{5}$........... | 7.6 | 7.4 | 7.4 | 7.2 | 7.2 | 7.1 | 7.0 | 7.6 | 7.4 | 7.4 | 7.3 | 7.2 | 6.9 |  |  |

[^26][^27]5. Employment status of the civilian population, by sex, age, race and Hispanic origin, monthly data seasonally adjusted
(Numbers in thousands)

| Employment status | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$ | 176,383 | 178,206 | 178,572 | 178,770 | 178,940 | 179,112 | 179,670 | 179,821 | 179,985 | 180,148 | 180,311 | 180,503 | 180,682 | 180,828 | 180,997 |
| Civilian labor force .... | 113,544 | 115,461 | 115,790 | 116,114 | 116,130 | 116,229 | 116,786 | 117,088 | 117,207 | 117,234 | 117,664 | 118,116 | 118,072 | 118,182 | 118,220 |
| Participation rate .... | 64.4 | 64.8 | 64.8 | 65.0 | 64.9 | 64.9 | 65.0 | 65.1 | 65.1 | 65.1 | 65.3 | 65.4 | 65.3 | 65.4 | 65.3 |
| Employed ................... | 105,005 | 107,150 | 107,519 | 107,813 | 107,969 | 108,206 | 108,955 | 108,561 | 108,788 | 108,892 | 109,110 | 109,673 | 109,882 | 110,155 | 109,891 |
| Employment-population ratio ${ }^{2}$ $\qquad$ | 59.5 | 60.1 | 60.2 | 60.3 | 60.3 | 60.4 | 60.6 | 60.4 | 60.4 | 60.4 | 60.5 | 60.8 | 60.8 | 60.9 | 60.7 |
| Unemployed. | 8,539 | 8,312 | 8,271 | 8,301 | 8,161 | 8,023 | 7,831 | 8,527 | 8,419 | 8,342 | 8,554 | 8,443 | 8,190 | 8,027 | 8,329 |
| Unemployment rate. | 7.5 | 7.2 | 7.1 | 7.1 | 7.0 | 6.9 | 6.7 | 7.3 | 7.2 | 7.1 | 7.3 | 7.1 | 6.9 | 6.8 | 7.0 |
| Not in labor force ............. | 62,839 | 62,744 | 62,782 | 62,656 | 62,810 | 62,883 | 62,885 | 62,733 | 62,778 | 62,914 | 62,647 | 62,387 | 62,610 | 62,646 | 62,777 |
| Men, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| population ${ }^{1}$ | 76,219 | 77,195 | 77,389 | 77,498 | 77,566 | 77,651 | 78,101 | 78,171 | 78,236 | 78,309 | 78,387 | 78,484 | 78,586 | 78,634 | 78,722 |
| Civilian labor force | 59,701 | 60,277 | 60,407 | 60,526 | 60,553 | 60,548 | 61,212 | 61,183 | 61,268 | 61,053 | 61,208 | 61,387 | 61,323 | 61,235 | 61,345 |
| Participation rate | 78.3 | 78.1 | 78.1 | 78.1 | 78.1 | 78.0 | 78.4 | 78.3 | 78.3 | 78.0 | 78.1 | 78.2 | 78.0 | 77.9 | 77.9 |
| Employed ......................... | 55,769 | 56,562 | 56,751 | 56,849 | 56,897 | 56,982 | 57,706 | 57,384 | 57,459 | 57,391 | 57,312 | 57,560 | 57,499 | 57,607 | 57,547 |
| Employment-population ratio ${ }^{2}$ $\qquad$ | 73.2 | 73.3 | 73.3 | 73.4 | 73.4 | 73.4 | 73.9 | 73.4 | 73.4 | 73.3 | 73.1 | 73.3 | 73.2 | 73.3 | 73.1 |
| Agriculture | 2,418 | 2,278 | 2,171 | 2,188 | 2,210 | 2,278 | 2,349 | 2,258 | 2,411 | 2,347 | 2,278 | 2,320 | 2,266 | 2,173 | 2,272 |
| Nonagricultural industries | 53,351 | 54,284 | 54,580 | 54,661 | 54,687 | 54,704 | 55,356 | 55,127 | 55,048 | 55,043 | 55,034 | 55,241 | 55,233 | 55,435 | 55,275 |
| Unemployed ...................... | 3,932 | 3,715 | 3,656 | 3,677 | 3,656 | 3,566 | 3,507 | 3,799 | 3,809 | 3,663 | 3,897 | 3,827 | 3,824 | 3,628 | 3,798 |
| Unemployment rate ............... | 6.6 | 6.2 | 6.1 | 6.1 | 6.0 | 5.9 | 5.7 | 6.2 | 6.2 | 6.0 | 6.4 | 6.2 | 6.2 | 5.9 | 6.2 |
| Women, 20 years ond over |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$ | 85,429 | 86,506 | 86,727 | 86,810 | 86,901 | 86,988 | 87,112 | 87,185 | 87,263 | 87,355 | 87,444 | 87,547 | 87,629 | 87,689 | 87,779 |
| Civilian labor force ..... | 45,900 | 47,283 | 47,558 | 47,663 | 47,713 | 47,870 | 47,895 | 47,921 | 47,952 | 48,107 | 48,409 | 48,805 | 48,916 | 48,989 | 48,922 |
| Participation rate | 53.7 | 54.7 | 54.8 | 54.9 | 54.9 | 55.0 | 55.0 | 55.0 | 55.0 | 55.1 | 55.4 | 55.7 | 55.8 | 55.9 | 55.7 |
| Employed ......................... | 42,793 | 44,154 | 44,363 | 44,609 | 44,656 | 44,882 | 44,980 | 44,710 | 44,797 | 45,009 | 45,284 | 45,701 | 45,918 | 45,999 | 45,879 |
| Employment-population ratio ${ }^{2}$ $\qquad$ | 50.1 | 51.0 | 51.2 | 51.4 | 51.4 | 51.6 | 51.6 | 51.3 | 51.3 | 51.5 | 51.8 | 52.2 | 52.4 | 52.5 | 52.3 |
| Agriculture .. | 595 | 596 | 557 | 609 | 591 | 597 | 696 | 593 | 598 | 576 | 609 | 565 | 608 | 627 | 610 |
| Nonagricultural industries | 42,198 | 43,558 | 43,806 | 44,000 | 44,065 | 44,285 | 44,284 | 44,117 | 44,199 | 44,433 | 44,675 | 45,136 | 45,309 | 45,372 | 45,269 |
| Unemployed ................ | 3,107 | 3,129 | 3,195 | 3,054 | 3,057 | 2,988 | 2,915 | 3,211 | 3,155 | 3,097 | 3,125 | 3,104 | 2,998 | 2,990 | 3,042 |
| Unemployment rate .... | 6.8 | 6.6 | 6.7 | 6.4 | 6.4 | 6.2 | 6.1 | 6.7 | 6.6 | 6.4 | 6.5 | 6.4 | 6.1 | 6.1 | 6.2 |
| Both sexes, 16 to 19 years |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$ $\qquad$ | 14,735 | 14,506 | 14,456 | 14,463 | 14,472 | 14,474 | 14,458 | 14,465 | 14,485 | 14,484 | 14,480 | 14,472 | 14,467 | 14,505 | 14,496 |
| Civilian labor force | 7,943 | 7,901 | 7,825 | 7,925 | 7,864 | 7,811 | 7,678 | 7,984 | 7,987 | 8,074 | 8,047 | 7,923 | 7,833 | 7,958 | 7,953 |
| Participation rate | 53.9 | 54.5 | 54.1 | 54.8 | 54.3 | 54.0 | 53.1 | 55.2 | 55.1 | 55.7 | 55.6 | 54.7 | 54.1 | 54.9 | 54.9 |
| Employed | 6,444 | 6,434 | 6,405 | 6,355 | 6,416 | 6,342 | 6,269 | 6,467 | 6,532 | 6,492 | 6,515 | 6,411 | 6,465 | 6,549 | 6,465 |
| Employment-population ratio ${ }^{2}$ $\qquad$ | 43.7 | 44.4 | 44.3 | 43.9 | 44.3 | 43.8 | 43.4 | 44.7 | 45.1 | 44.8 | 45.0 | 44.3 | 44.7 | 45.2 | 44.6 |
| Agriculture | 309 | 305 | 289 | 261 | 269 | 276 | 254 | 246 | 276 | 298 | 274 | 280 | 238 | 249 | 239 |
| Nonagricultural industries ........ | 6,135 | 6,129 | 6,116 | 6,094 | 6,147 | 6,066 | 6,015 | 6,221 | 6,256 | 6,194 | 6,241 | 6,131 | 6,227 | 6,300 | 6,226 |
| Unemployed ............................. | 1,499 | 1,468 | 1,420 | 1,570 | 1,448 | 1,469 | 1,409 | 1,517 | 1,455 | 1,582 | 1,532 | 1,512 | 1,368 | 1,409 | 1,488 |
| Unemployment rate ............... | 18.9 | 18.6 | 18.1 | 19.8 | 18.4 | 18.8 | 18.4 | 19.0 | 18.2 | 19.6 | 19.0 | 19.1 | 17.5 | 17.7 | 18.7 |
| White |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$ $\qquad$ | 152,347 | 153,679 | 153,938 | 154,082 | 154,203 | 154,327 | 154,784 | 154,889 | 155,005 | 155,122 | 155,236 | 155,376 | 155,502 | 155,604 | 155,723 |
| Civilian labor force ...... | 98,492 | 99,926 | 100,179 | 100,533 | 100,478 | 100,533 | 100,961 | 101,232 | 101,248 | 101,249 | 101,515 | 101,975 | 101,922 | 102,189 | 102,127 |
| Participation rate .................. | 64.6 | 65.0 | 65.1 | 65.2 | 65.2 | 65.1 | 65.2 | 65.4 | 65.3 | 65.3 | 65.4 | 65.6 | 65.5 | 65.7 | 65.6 |
| Employed | 92,120 | 93,736 | 94,055 | 94,369 | 94,507 | 94,585 | 95,165 | 94,803 | 94,958 | 95,081 | 95,180 | 95,731 | 95,760 | 96,271 | 95,953 |
| Employment-population ratio ${ }^{2}$ $\qquad$ | 60.5 | 61.0 | 61.1 | 61.2 | 61.3 | 61.3 | 61.5 | 61.2 | 61.3 | 61.3 | 61.3 | 61.6 | 61.6 | 61.9 | 61.6 |
| Unemployed | 6,372 | 6,191 | 6,124 | 6,164 | 5,971 | 5,948 | 5,796 | 6,429 | 6,290 | 6,168 | 6,335 | 6,244 | 6,162 | 5,918 | 6,174 |
| Unemployment rate ............... | 6.5 | 6.2 | 6.1 | 6.1 | 5.9 | 5.9 | 5.7 | 6.4 | 6.2 | 6.1 | 6.2 | 6.1 | 6.0 | 5.8 | 6.0 |
| Black |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| population ${ }^{\text { }}$.............. | 19,348 | 19,664 | 19,728 | 19,761 | 19,790 | 19,819 | 19,837 | 19,863 | 19,889 | 19,916 | 19,943 | 19,974 | 20,002 | 20,028 | 20,056 |
| Civilian labor force ..... | 12,033 | 12,364 | 12,378 | 12,412 | 12,457 | 12,522 | 12,548 | 12,545 | 12,656 | 12,740 | 12,781 | 12,754 | 12,601 | 12,473 | 12,630 |
| Participation rate ............ | 62.2 | 62.9 | 62.7 | 62.8 | 62.9 | 63.2 | 63.3 | 63.2 | 63.6 | 64.0 | 64.1 | 63.9 | 63.0 | 62.3 | 63.0 |
|  | 10,119 | 10,501 | 10,500 | 10,566 | 10,518 | 10,657 | 10,737 | 10,690 | 10,791 | 10,856 | 10,889 | 10,825 | 10,836 | 10,654 | 10,757 |
| Employment-population ratio ${ }^{2}$ | 52.3 | 53.4 | 53.2 | 53.5 | 53.1 | 53.8 | 54.1 | 53.8 | 54.3 | 54.5 | 54.6 | 54.2 | 54.2 | 53.2 | 53.6 |
| Unemployed .................... | 1,914 | 1,864 | 1,878 | 1,846 | 1,939 | 1,865 | 1,810 | 1,855 | 1,865 | 1,884 | 1,892 | 1,929 | 1,766 | 1,819 | 1,873 |
| Unemployment rate ............... | 15.9 | 15.1 | 15.2 | 14.9 | 15.6 | 14.9 | 14.4 | 14.8 | 14.7 | 14.8 | 14.8 | 15.1 | 14.0 | 14.6 | 14.8 |

See footnotes at end of table.

MONTHLY LABOR REVIEW November 1986 - Current Labor Statistics: Employment Data
5. Continued- Employment status of the civilian population, by sex, age, race and Hispanic origin, monthly data seasonally adjusted
(Numbers in thousands)

| Employment status | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| Hispanic origin |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$ $\qquad$ 11,478 <br> 11,915 <br> 12,004 <br> 12,040 <br> 12,075 <br> 12,111 12,148 <br> 12,184 <br> 12,219 <br> 12,255 <br> 12,290 <br> 12,326 <br> 12,362 <br> 12,397 <br> 12,432 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force ....................... | 7,451 | 7,698 | 7,844 | 7,854 | 7,782 | 7,772 | 7,787 | 7,943 | 7,920 | $\begin{array}{r}12,275 \\ \hline\end{array}$ | 12,290 | 12,326 8,110 | 12,362 8,123 | 12,397 8,102 | 12,432 8,170 |
| Participation rate .................. | 64.9 | 64.6 | 65.3 | 65.2 | 64.4 | 64.2 | 64.1 | 65.2 | 64.8 | 65.1 | 65.1 | 65.8 | 65.7 | 65.4 | 65.7 |
| Employed | 6,651 | 6,888 | 7,026 | 6,982 | 6,953 | 6,962 | 6,998 | 6,969 | 7,105 | 7,144 | 7,123 | 7,251 | 7,274 | 7,213 | 7,264 |
| Employment-population ratio ${ }^{2}$ | 57.9 | 57.8 | 58.5 | 58.0 | 57.6 | 57.5 | 57.6 | 57.2 | 58.2 | 58.3 | 58.0 | 58.8 | 58.8 | 58.2 | 58.4 |
| Unemployed | 800 | 811 | 818 | 872 | 829 | 510 8 | 789 | 57.2 974 | 58.2 815 | 58.3 832 | 58.0 878 | 58.8 858 | 58.8 849 | 58.2 889 | 58.4 906 |
| Unemployment rate ............... | 10.7 | 10.5 | 10.4 | 11.1 | 10.7 | 10.4 | 10.1 | 12.3 | 10.3 | 10.4 | 11.0 | 10.6 | 10.5 | 11.0 | 11.1 |

[^28]because data for the "other races" groups are not presented and Hispanics are included in both the white and black population groups.
6. Selected employment indicators, monthly data seasonally adjusted
(In thousands)

| Selected categories | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| CHARACTERISTIC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian employed, 16 years and over $\qquad$ | 105,005 | 107,150 | 107,519 | 107,813 | 107,969 | 108,206 | 108,955 | 108,561 | 108,788 | 108,892 | 109,110 | 109,673 | 109,882 | 110,155 | 109,891 |
| Men . | 59,091 | 59,891 | 60,049 | 60,105 | 60,179 | 60,244 | 60,919 | 60,704 | 60,748 | 60,713 | 60,657 | 60,797 | 60,847 | 60,974 | 60,923 |
| Women | 45,915 | 47,259 | 47,470 | 47,708 | 47,790 | 47,962 | 48,035 | 47,857 | 48,041 | 48,179 | 48,454 | 48,876 | 49,035 | 49,181 | 48,969 |
| Married men, spouse present .. | 39,056 | 39,248 | 39,103 | 39,272 | 39,314 | 39,278 | 39,615 | 39,382 | 39,365 | 39,555 | 39,614 | 39,626 | 39,611 | 39,716 | 39,623 |
| present | 25,636 | 26,336 | 26,531 | 26,702 | 26,721 | 26,804 | 26,958 | 26,593 | 26,656 | 26,802 | 26,920 | 27,427 | 27,523 | 27,438 | 27,203 |
| Women who maintain families . | 5,465 | 5,597 | 5,556 | 5,514 | 5,605 | 5,693 | 5,702 | 5,733 | 5,771 | 5,812 | 5,718 | 5,668 | 5,829 | 5,826 | 5,927 |
| MAJOR INDUSTRY AND CLASS OF WORKER |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Agriculture: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wage and salary workers ......... | 1,555 | 1,535 | 1,438 | 1,465 | 1,537 | 1,572 | 1,673 | 1,519 | 1,689 | 1,587 | 1,480 | 1,498 | 1,486 | 1,469 | 1,501 |
| Self-employed workers ............. | 1,553 | 1,458 | 1,414 | 1,436 | 1,361 | 1,409 | 1,492 | 1,444 | 1,453 | 1,475 | 1,486 | 1,504 | 1,427 | 1,379 | 1,472 |
| Unpaid family workers .............. | 213 | 185 | 179 | 172 | 158 | 164 | 163 | 156 | 172 | 180 | 186 | 154 | 171 | 178 | 157 |
| Nonagricultural industries: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Wage and salary workers | 93,565 | 95,871 | 96,546 | 96,530 | 96,676 | 96,921 | 97,911 | 97,516 | 97,698 | 97,831 | 97,994 | 98,372 | 98,206 | 98,667 | 98,738 |
| Government | 15,770 | 16,031 | 16,145 | 16,213 | 16,157 | 16,194 | 16,418 | 16,104 | 16,095 | 16,187 | 16,325 | 16,387 | 16,647 | 16,479 | 16,307 |
| Private industries | 77,794 | 79,841 | 80,401 | 80,317 | 80,519 | 80,727 | 81,494 | 81,412 | 81,604 | 81,643 | 81,669 | 81,984 | 81,559 | 82,188 | 82,432 |
| Private households .............. | 1,238 | 1,249 | 1,266 | 1,271 | 1,197 | 1,131 | 1,256 | 1,197 | 1,213 | 1,321 | 1,275 | 1,279 | 1,243 | 1,261 | 1,234 |
| Other | 76,556 | 78,592 | 79,135 | 79,046 | 79,322 | 79,596 | 80,238 | 80,216 | 80,390 | 80,322 | 80,394 | 80,705 | 80,317 | 80,927 | 81,198 |
| Self-employed workers ............. | 7,785 | 7,811 | 7,846 | 7,991 | 8,013 | 7,903 | 7,655 | 7,669 | 7,644 | 7,571 | 7,757 | 7,807 | 8,081 | 7,982 | 7,927 |
| Unpaid family workers .............. | 335 | 289 | 266 | 248 | 249 | 250 | 273 | 270 | 240 | 253 | 229 | 235 | 254 | 282 | 277 |
| PERSONS AT WORK PART TIME ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All industries: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part time for economic reasons | 5,744 | 5,590 | 5,554 | 5,475 | 5,498 | 5,494 | 5,543 | 5,377 | 5,538 | 5,923 | 5,980 | 5,537 | 5,399 | 5,443 | 5,544 |
| Slack work ............................. | 2,430 | 2,430 | 2,433 | 2,251 | 2,306 | 2,303 | 2,364 | 2,369 | 2,330 | 2,603 | 2,659 | 2,434 | 2,484 | 2,411 | 2,496 |
| Could only find part-time work | 2,948 | 2,819 | 2,815 | 2,897 | 2,883 | 2,864 | 2,883 | 2,703 | 2,953 | 2,974 | 2,893 | 2,810 | 2,624 | 2,711 | 2,764 |
| Voluntary part time ..................... | 13,169 | 13,489 | 13,496 | 13,713 | 13,645 | 13,556 | 13,958 | 13,817 | 13,754 | 13,933 | 13,638 | 14,268 | 13,991 | 14,023 | 13,860 |
| Nonagricultural industries: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part time for economic reasons | 5,512 | 5,334 | 5,299 | 5,241 | 5,295 | 5,294 | 5,275 | 5,158 | 5,301 | 5,621 | 5,673 | 5,320 | 5,191 | 5,259 | 5,298 |
| Slack work ................................ | 2,291 | 2,273 | 2,292 | 2,115 | 2,196 | 2,195 | 2,208 | 2,224 | 2,159 | 2,430 | 2,523 | 2,308 | 2,323 | 2,286 | 2,327 |
| Could only find part-time work | 2,866 | 2,730 | 2,730 | 2,801 | 2,784 | 2,760 | 2,776 | 2,636 | 2,861 | 2,849 | 2,790 | 2,724 | 2,579 | 2,660 | 2,712 |
| Voluntary part time ..................... | 12,704 | 13,038 | 13,053 | 13,277 | 13,194 | 13,122 | 13,441 | 13,369 | 13,285 | 13,599 | 13,191 | 13,779 | 13,656 | 13,683 | 13,468 |

1 Excludes persons "with a job but not at work" during the survey period for such
reasons as vacation, illness, or industrial disputes.
7. Selected unemployment indicators, monthly data seasonally adjusted
(Unemployment rates)

| Selected categories | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| CHARACTERISTIC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total, all civilian workers | 7.5 | 7.2 | 7.1 | 7.1 | 7.0 | 6.9 | 6.7 | 7.3 | 7.2 | 7.1 | 7.3 | 7.1 | 6.9 | 6.8 | 7.0 |
| Both sexes, 16 to 19 years | 18.9 | 18.6 | 18.1 | 19.8 | 18.4 | 18.8 | 18.4 | 19.0 | 18.2 | 19.6 | 19.0 | 19.1 | 17.5 | 17.7 | 18.7 |
| Men, 20 years and over | 6.6 | 6.2 | 6.1 | 6.1 | 6.0 | 5.9 | 5.7 | 6.2 | 6.2 | 6.0 | 6.4 | 6.2 | 6.2 | 5.9 | 6.2 |
| Women, 20 years and over .............................. | 6.8 | 6.6 | 6.7 | 6.4 | 6.4 | 6.2 | 6.1 | 6.7 | 6.6 | 6.4 | 6.5 | 6.4 | 6.1 | 6.1 | 6.2 |
| White, total | 6.5 | 6.2 | 6.1 | 6.1 | 5.9 | 5.9 | 5.7 | 6.4 | 6.2 | 6.1 | 6.2 | 6.1 | 6.0 | 5.8 | 6.0 |
| Both sexes, 16 to 19 years ............................ | 16.0 | 15.7 | 15.3 | 17.0 | 15.5 | 15.9 | 14.9 | 16.2 | 14.5 | 16.4 | 16.0 | 16.2 | 15.0 | 15.2 | 16.1 |
| Men, 16 to 19 years | 16.8 | 16.5 | 16.2 | 18.5 | 15.8 | 16.2 | 14.7 | 16.5 | 15.3 | 17.2 | 17.3 | 17.8 | 15.3 | 16.7 | 17.0 |
| Women, 16 to 19 years | 15.2 | 14.8 | 14.4 | 15.3 | 15.1 | 15.5 | 15.1 | 15.8 | 13.7 | 15.6 | 14.7 | 14.4 | 14.7 | 13.5 | 15.2 |
| Men, 20 years and over | 5.7 | 5.4 | 5.2 | 5.2 | 5.2 | 5.1 | 5.0 | 5.4 | 5.5 | 5.2 | 5.5 | 5.4 | 5.5 | 5.0 | 5.4 |
| Women, 20 years and over ............................ | 5.8 | 5.7 | 5.7 | 5.5 | 5.4 | 5.4 | 5.3 | 5.9 | 5.8 | 5.5 | 5.5 | 5.4 | 5.3 | 5.2 | 5.3 |
| Black, total | 15.9 | 15.1 | 15.2 | 14.9 | 15.6 | 14.9 | 14.4 | 14.8 | 14.7 | 14.8 | 14.8 | 15.1 | 14.0 | 14.6 | 14.8 |
| Both sexes, 16 to 19 years ............................ | 42.7 | 40.2 | 38.8 | 39.7 | 40.8 | 41.6 | 41.9 | 39.1 | 43.7 | 42.6 | 40.8 | 40.2 | 38.6 | 39.5 | 38.3 |
| Men, 16 to 19 years ................................. | 42.7 | 41.0 | 41.1 | 41.0 | 45.2 | 41.0 | 41.3 | 38.7 | 44.1 | 41.4 | 40.8 | 38.5 | 41.6 | 37.4 | 38.9 |
| Women, 16 to 19 years | 42.6 | 39.2 | 36.1 | 38.2 | 36.0 | 42.3 | 42.4 | 39.5 | 43.4 | 43.7 | 40.8 | 41.9 | 35.1 | 41.8 | 37.8 |
| Men, 20 years and over | 14.3 | 13.2 | 13.3 | 13.7 | 13.7 | 13.1 | 12.7 | 13.3 | 12.6 | 12.6 | 12.7 | 13.3 | 12.7 | 13.2 | 13.7 |
| Women, 20 years and over ............................. | 13.5 | 13.1 | 13.5 | 12.1 | 13.6 | 12.6 | 12.0 | 12.5 | 12.2 | 12.5 | 12.8 | 12.8 | 11.9 | 12.5 | 12.5 |
| Hispanic origin, total | 10.7 | 10.5 | 10.4 | 11.1 | 10.7 | 10.4 | 10.1 | 12.3 | 10.3 | 10.4 | 11.0 | 10.6 | 10.5 | 11.0 | 11.1 |
| Married men, spouse present ............................ | 4.6 | 4.3 | 4.3 | 4.2 | 4.3 | 4.3 | 4.3 | 4.5 | 4.5 | 4.2 | 4.5 | 4.5 | 4.4 | 4.1 | 4.2 |
| Married women, spouse present ....................... | 5.7 | 5.6 | 5.6 | 5.3 | 5.5 | 5.3 | 5.1 | 5.5 | 5.6 | 5.3 | 5.4 | 5.2 | 5.3 | 5.1 | 5.0 |
| Women who maintain families .......................... | 10.3 | 10.4 | 11.3 | 10.4 | 10.0 | 9.4 | 9.9 | 9.9 | 10.1 | 9.4 | 10.2 | 10.1 | 9.2 | 10.3 | 10.1 |
| Full-time workers | 7.2 | 6.8 | 6.8 | 6.8 | 6.7 | 6.6 | 6.4 | 6.9 | 6.9 | 6.7 | 7.0 | 6.7 | 6.6 | 6.4 | 6.7 |
| Part-time workers | 9.3 | 9.3 | 9.3 | 9.6 | 8.8 | 9.0 | 8.4 | 9.4 | 9.1 | 9.6 | 9.2 | 9.1 | 9.0 | 9.3 | 9.3 |
| Unemployed 15 weeks and over | 2.4 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 2.0 | 1.9 | 1.8 | 1.9 | 2.0 | 1.9 | 1.9 | 2.0 |
| Labor force time lost ${ }^{1}$.................. | 8.6 | 8.1 | 8.1 | 7.9 | 7.9 | 7.8 | 7.6 | 8.1 | 8.1 | 8.1 | 8.3 | 8.1 | 7.7 | 7.7 | 8.0 |
| INDUSTRY |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonagricultural private wage and salary workers .... | 7.4 | 7.2 | 7.2 | 7.1 | 7.0 | 6.9 | 6.7 | 7.2 | 7.2 | 7.2 | 7.3 | 7.1 | 7.2 | 6.9 | 7.0 |
| Mining .............................................................. | 10.0 | 9.5 | 8.9 | 7.7 | 7.3 | 10.3 | 10.9 | 9.2 | 10.4 | 12.8 | 13.7 | 17.6 | 17.0 | 16.7 | 13.3 |
| Construction. | 14.3 | 13.1 | 13.6 | 13.5 | 13.4 | 12.6 | 12.9 | 13.2 | 13.0 | 12.0 | 13.3 | 12.1 | 13.2 | 12.2 | 12.7 |
| Manufacturing .. | 7.5 | 7.7 | 7.7 | 7.5 | 7.7 | 7.3 | 7.0 | 7.2 | 7.2 | 6.8 | 7.5 | 7.3 | 6.9 | 6.8 | 7.0 |
| Durable goods | 7.2 | 7.6 | 7.7 | 7.3 | 7.6 | 7.3 | 7.0 | 7.4 | 6.8 | 6.8 | 7.3 | 7.1 | 6.7 | 6.9 | 6.5 |
| Nondurable goods. | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.3 | 7.1 | 7.0 | 7.7 | 6.8 | 7.7 | 7.5 | 7.2 | 6.7 | 7.8 |
| Transportation and public utilities ..................... | 5.5 | 5.1 | 5.3 | 5.1 | 5.1 | 5.0 | 4.3 | 5.3 | 6.1 | 5.6 | 5.3 | 5.5 | 6.1 | 4.6 | 4.7 |
| Wholesale and retail trade ....... | 8.0 | 7.6 | 7.8 | 7.7 | 7.5 | 7.6 | 7.2 | 7.8 | 7.6 | 8.1 | 8.1 | 7.7 | 7.8 | 7.4 | 7.6 |
| Finance and service industries | 5.9 | 5.6 | 5.5 | 5.4 | 5.4 | 5.3 | 5.2 | 5.9 | 5.7 | 5.9 | 5.5 | 5.4 | 5.7 | 5.7 | 5.6 |
| Government workers | 4.5 | 3.9 | 3.8 | 3.9 | 3.6 | 3.8 | 3.4 | 3.8 | 4.0 | 3.5 | 3.7 | 3.6 | 3.2 | 3.2 | 3.5 |
| Agricultural wage and salary workers ..................... | 13.5 | 13.2 | 13.3 | 12.9 | 12.5 | 10.6 | 10.9 | 14.3 | 11.9 | 13.4 | 15.8 | 13.2 | 11.6 | 13.8 | 13.5 |

[^29]reasons as a percent of potentially available labor force hours.

MONTHLY LABOR REVIEW November 1986 - Current Labor Statistics: Employment Data
8. Unemployment rates by sex and age, monthly data seasonally adjusted
(Civilian workers)

| Sex and age | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| Total, 16 years and over | 7.5 | 7.2 | 7.1 | 7.1 | 7.0 | 6.9 | 6.7 | 7.3 | 7.2 | 7.1 | 7.3 | 7.1 | 6.9 | 6.8 | 7.0 |
| 16 to 24 years ............. | 13.9 | 13.6 | 13.3 | 13.9 | 13.5 | 13.3 | 13.0 | 13.6 | 13.2 | 13.9 | 14.2 | 13.5 | 13.0 | 12.8 | 13.8 18.7 |
| 16 to 19 years | 18.9 | 18.6 | 18.1 | 19.8 | 18.4 | 18.8 | 18.4 | 19.0 | 18.2 | 19.6 | 19.0 | 19.1 | 17.5 | 17.7 19.6 | 18.7 20.3 |
| 16 to 17 years | 21.2 | 21.0 | 20.3 | 22.7 | 21.4 | 21.1 | 20.9 | 21.8 | 19.4 | 20.9 | 21.1 175 | 20.6 17.9 | 19.4 15.7 | 19.6 16.6 | 17.4 |
| 18 to 19 years | 17.4 | 17.0 | 16.7 | 17.8 | 16.9 | 17.5 | 16.4 | 17.2 | 17.1 | 18.9 10.9 | 17.5 11.7 | 17.9 10.7 | 10.8 | 16.6 10.2 | 11.2 |
| 20 to 24 years.. | 11.5 | 11.1 | 10.9 | 10.9 | 11.0 | 10.6 | 10.4 | 10.8 5.7 | 10.6 5.7 | 10.9 5.4 | 11.7 5.5 | 5.6 | 10.8 5.4 | 5.3 | 5.4 |
| 25 years and over | 5.8 | 5.6 | 5.6 | 5.4 | 5.4 | 5.3 5.5 | 5.1 5.4 | 5.7 5.9 | 5.7 5.9 | 5.4 5.8 | 5.5 5.9 | 5.6 5.9 | 5.4 5.8 | 5.3 5.6 | 5.6 |
| 25 to 54 years. | 6.1 | 5.8 | 5.8 | 5.7 3.9 | 5.6 3.8 | 5.5 3.9 | 5.4 3.9 | 5.9 4.4 | 5.9 4.3 | 5.8 3.9 | 3.6 3.6 | 3.7 | 3.8 | 3.7 | 4.1 |
| 55 years and over | 4.5 | 4.1 | 4.1 | 3.9 | 3.8 | 3.9 | 3.9 | 4.4 | 4.3 | 3.9 | 3.6 | 3.7 | 3.8 | 3.7 | 4.1 |
| Men, 16 years and over | 7.4 | 7.0 | 6.9 | 7.1 | 6.9 | 6.7 | 6.5 | 7.0 | 7.0 | 6.9 | 7.3 | 7.1 | 7.0 | 6.8 | 7.0 |
| 16 to 24 years ............ | 14.4 | 14.1 | 13.8 | 14.6 | 13.9 | 13.5 | 12.8 | 13.6 | 13.6 | 14.5 | 15.0 | 14.0 | 13.5 | 13.3 | 14.5 |
| 16 to 19 years | 19.6 | 19.5 | 19.3 | 21.5 | 19.4 | 19.3 | 18.2 | 19.3 | 18.9 | 20.2 | 20.4 | 20.1 | 18.2 | 19.2 | 19.4 |
| 16 to 17 years | 21.9 | 21.9 | 20.7 | 24.0 | 20.9 | 21.6 | 20.9 | 23.2 | 20.0 | 21.2 | 21.6 | 19.4 20.4 | 16.1 | 18.1 | 21.9 17.4 |
| 18 to 19 years | 18.3 | 17.9 | 18.3 | 19.9 | 18.7 | 18.0 | 16.2 | 16.6 10.7 | 17.8 | 19.7 11.6 | 19.6 12.2 | 20.4 11.0 | 16.1 11.2 | 18.1 10.3 | 17.4 12.0 |
| 20 to 24 years | 11.9 | 11.4 | 11.0 | 11.1 | 11.2 | 10.6 | 10.3 5.0 | 10.7 5.5 | 11.0 5.5 | 11.6 5.2 | 12.2 5.4 | 11.0 5.5 | + 5.5 | 10.3 5.3 | 5.3 |
| 25 years and over | 5.7 5.9 | 5.3 5.6 | 5.3 5.5 | 5.3 5.5 | 5.2 5.4 | 5.1 5.4 | 5.0 5.3 | 5.5 5.7 | 5.5 | 5.5 | 5.4 5.8 | 5.8 | 5.8 | 5.5 | 5.5 |
| 25 to 54 years ..... | 5.9 | 5.6 4.1 | 5.5 4.0 | 5.5 4.1 | 5.4 4.0 | 5.4 3.9 | 5.3 3.9 | 5.7 4.4 | 5.7 4.3 | 3.9 | 3.8 | 4.1 | 3.9 | 4.1 | 4.3 |
| 55 years and over | 4.6 | 4.1 | 4.0 | 4.1 | 4.0 | 3.9 | 3.9 | 4.4 | 4.3 | 3.9 | 3.8 | 4.1 |  |  |  |
| Women, 16 years and over | 7.6 | 7.4 | 7.5 | 7.3 | 7.2 | 7.1 | 7.0 | 7.6 | 7.4 | 7.4 | 7.3 | 7.2 | 6.9 | 6.8 | 7.1 |
| 16 to 24 years | 13.3 | 13.0 | 12.9 | 13.1 | 13.1 | 13.2 | 13.2 | 13.6 | 12.7 | 13.2 | 13.3 | 13.0 | 12.5 | 12.1 | 12.9 |
| 16 to 19 years | 18.0 | 17.6 | 16.9 | 17.9 | 17.4 | 18.3 | 18.5 | 18.6 | 17.5 | 19.0 | 17.6 | 18.0 | 16.6 | 16.0 | 17.9 |
| 16 to 17 years | 20.4 | 20.0 | 19.8 | 21.2 | 22.0 | 20.6 | 20.8 | 20.2 | 18.7 | 20.5 | 20.5 | 21.9 | 18.7 | 18.1 | 18.5 |
| 18 to 19 years | 16.6 | 16.0 | 14.9 | 15.5 | 15.1 | 16.9 | 16.5 | 17.7 | 16.3 | 18.1 | 15.3 | 15.1 | 15.3 | 15.0 | 17.3 |
| 20 to 24 years | 10.9 | 10.7 | 10.9 | 10.7 | 10.8 | 10.6 | 10.5 | 11.0 | 10.1 | 10.0 | 11.1 | 10.4 | 10.4 | 10.1 | 10.3 |
| 25 years and over. | 6.0 | 5.9 | 6.0 | 5.6 | 5.6 | 5.4 | 5.3 | 5.9 | 5.9 | 5.8 | 5.7 | 5.7 | 5.4 | 5.4 | 5.5 |
| 25 to 54 years. | 6.3 | 6.2 | 6.2 | 5.9 | 5.9 | 5.7 | 5.6 | 6.2 | 6.3 | 6.2 | 6.1 | 6.1 | 5.7 | 5.8 | 5.8 3.8 |
| 55 years and over | 4.2 | 4.1 | 4.2 | 3.7 | 3.6 | 3.9 | 3.8 | 4.4 | 4.4 | 3.8 | 3.4 | 3.1 | 3.6 | 3.1 | 3.8 |

9. Unemployed persons by reason for unemployment, monthly data seasonally adjusted
(Numbers in thousands)

| Reason for unemployment | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| Job losers | 4,421 | 4,139 | 4,142 | 4,040 | 4,081 | 3,933 | 3,776 | 4,162 | 4,246 | 4,034 | 4,311 | 4,335 | 3,937 | 3,831 | 4,044 |
| On layoff | 1,171 | 1,157 | 1,167 | 1,161 | 1,175 | 1,132 | 1,163 | 1,152 | 1,164 | 1,028 | 1,133 | 1,066 | 1,079 | 990 | 1,014 |
| Other job losers | 3,250 | 2,982 | 2,975 | 2,879 | 2,906 | 2,801 | 2,613 | 3,010 | 3,082 | 3,006 | 3,178 | 3,269 | 2,858 | 2,841 | 3,030 |
| Job leavers ........ | 823 | 877 | 852 | 911 | 808 | 876 | 996 | 1,001 | 1,002 | 1,110 | 975 | 1,013 | 1,034 | 978 | 1,043 |
| Reentrants | 2,184 | 2,256 | 2,335 | 2,237 | 2,226 | 2,225 | 2,066 | 2,292 | 2,197 | 2,191 | 2,217 | 2,064 | 2,223 | 2,232 | 2,118 |
| New entrants | 1,110 | 1,039 | 918 | 1,045 | 1,055 | 1,033 | 1,025 | 1,097 | 1,000 | 1,059 | 1,062 | 1,059 | 965 | 1,000 | 1,044 |
| PERCENT OF UNEMPLOYED |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers | 51.8 | 49.8 | 50.2 | 49.1 | 50.0 | 48.8 | 48.0 | 48.7 | 50.3 | 48.1 | 50.3 | 51.2 | 48.3 | 47.6 | 49.0 |
| On layoff | 13.7 | 13.9 | 14.2 | 14.1 | 14.4 | 14.0 | 14.8 | 13.5 | 13.8 | 12.2 35.8 | 13.2 | 12.6 | 13.2 35.0 | 12.3 35.3 | 12.3 36.7 |
| Other job losers | 38.1 | 35.9 | 36.1 | 35.0 | 35.6 | 34.7 | 33.2 | 35.2 | 36.5 11.9 | 35.8 | 37.1 11.4 | 38.6 12.0 | 35.0 12.7 | 12.3 12.2 | 36.7 12.6 |
| Job leavers ........... | 9.6 | 10.6 | 10.3 | 11.1 | 9.9 27.2 | 10.9 | 12.7 26.3 | 11.7 26.8 | 11.9 26.0 | 13.2 26.1 | 11.4 25.9 | 12.0 24.4 | 12.7 27.2 | 12.2 27.8 | 12.6 25.7 |
| Reentrants .... | 25.6 13.0 | 27.1 12.5 | 28.3 11.1 | 27.2 12.7 | 27.2 12.9 | 27.6 12.8 | 26.3 13.0 | 11.7 12.8 | 11.8 | 12.6 | 12.4 | 12.5 | 11.8 | 12.4 | 12.7 |
| PERCENT OF CIVILIAN LABOR FORCE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers | 3.9 | 3.6 | 3.6 | 3.5 | 3.5 | 3.4 | 3.2 | 3.6 | 3.6 | 3.4 | 3.7 | 3.7 | 3.3 | 3.2 | 3.4 |
| Job leavers | . 7 | . 8 | . 7 | . 8 | . 7 | . 8 | . 9 | . 9 | . 9 | . 9 | . 8 | . 9 | . 9 | . 8 | . 9 |
| Reentrants | 1.9 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.8 | 2.0 | 1.9 | 1.9 | 1.9 | 1.7 | 1.9 | 1.9 | 1.8 |
| New entrants | 1.0 | . 9 | . 8 | . 9 | . 9 | . 9 | . 9 | . 9 | . 9 | . 9 | . 9 | . 9 | . 8 | . 8 | . 9 |

## 10. Duration of unemployment, monthly data seasonally adjusted

(Numbers in thousands)

| Weeks of unemployment | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| Less than 5 weeks | 3,350 | 3,498 | 3,484 | 3,430 | 3,465 | 3,374 | 3,311 | 3,562 | 3,589 | 3,628 | 3,705 | 3,384 | 3,394 | 3,427 | 3,407 |
| 5 to 14 weeks ....... | 2,451 | 2,509 | 2,505 | 2,536 | 2,448 | 2,460 | 2,441 | 2,622 | 2,640 | 2,685 | 2,737 | 2,708 | 2,486 | 2,379 | 2,533 |
| 15 weeks and over | 2,737 | 2,305 | 2,307 | 2,277 | 2,205 | 2,188 | 2,056 | 2,340 | 2,258 | 2,135 | 2,209 | 2,320 | 2,256 | 2,295 | 2,405 |
| 15 to 26 weeks ... | 1,104 | 1,025 | 1,035 | 1,057 | 894 | 973 | 969 | 1,149 | 1,099 | 1,001 | 1,072 | 1,036 | 1,066 | 1,086 | 1,114 |
| 27 weeks and over | 1,634 | 1,280 | 1,272 | 1,220 | 1,311 | 1,215 | 1,087 | 1,191 | 1,159 | 1,134 | 1,137 | 1,284 | 1,190 | 1,209 | 1,291 |
| Mean duration in weeks | 18.2 | 15.6 | 15.5 | 15.4 | 15.7 | 15.4 | 14.9 | 15.3 | 14.4 | 14.3 | 14.4 | 15.2 | 15.0 | 15.8 | 15.6 |
| Median duration in weeks .... | 7.9 | 6.8 | 6.9 | 7.0 | 6.9 | 6.9 | 6.8 | 6.9 | 6.8 | 6.5 | 6.6 | 7.3 | 7.1 | 7.2 | 7.2 |

11. Unemployment rates of civilian workers by State, data not seasonally adjusted

| State | Aug. <br> 1985 | Aug. <br> 1986 | State | Aug. $1985$ | $\begin{aligned} & \text { Aug. } \\ & 1986 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama. | 8.4 | 10.1 | Montana | 6.4 | 6.5 |
| Alaska ..... | 7.9 | 10.2 | Nebraska | 4.9 | 3.9 |
| Arizona ... | 6.9 | 6.9 | Nevada .. | 4.3 | 3.9 5.2 |
| Arkansas | 7.7 | 8.5 | New Hampshire | 3.6 | 2.9 |
| California | 7.3 | 6.7 |  |  |  |
| Colorado |  |  | New Jersey | 4.4 | 4.5 |
| Connecticut | 5.5 4.8 | 6.6 3.9 | New Mexico | 8.6 | 9.0 |
| Delaware ..... | 6.2 | 3.9 4.1 | New York ... | 6.1 | 5.9 |
| District of Columbia | 8.4 | 8.4 | North Dakota | 5.8 | 5.1 |
| Florida ................. | 5.8 | 5.9 |  | 9 | 5.5 |
| Georgia |  |  | Ohio | 8.8 | 8.0 |
| Hawaii ... | 6.6 5.7 | 5.9 | Oklahoma | 6.8 | 9.2 |
| Idaho ... | 5.7 7.4 | 4.7 8.2 | Oregon | 7.8 | 8.3 |
| Illinois | 8.8 | 8.2 7.9 | Pennsylvania | 7.3 | 6.3 |
| Indiana | 7.1 | 6.4 | Rhode island | 4.5 | 3.3 |
|  |  |  | South Carolina | 6.7 | 5.9 |
| Kansas ............................................................................... | 7.1 | 6.8 | South Dakota | 4.4 | 4.1 |
| Kentucky ........................................................................................... | 4.8 | 5.3 | Tennessee | 7.7 | 7.4 |
| Louisiana | 8.5 11.8 | 7.5 123 | Texas | 7.0 | 9.1 |
| Maine ... | 11.8 4.4 | 12.3 4.2 | Utah | 5.0 | 5.3 |
|  |  |  | Vermont | 4.0 |  |
| Maryland ......... | 4.2 | 4.0 | Virginia. | 4.0 5.4 | 3.5 4.4 |
| Massachusetts | 3.7 | 3.7 | Washington | 7.1 | 7.6 |
| Michigan ... | 9.7 | 7.9 | West Virginia | 10.9 | 7.6 11.6 |
| Minnesota | 5.1 | 4.3 | Wisconsin ..... | 6.1 | 11.6 |
| Mississippi | 10.4 | 12.7 | Wisconsín | 6.1 | 6.2 |
| Missouri | 6.1 | 6.3 | Wyoming ... | 6.1 | 8.0 |

12. Employment of workers on nonagricultural payrolls by State, data not seasonally adjusted
(In thousands)

| State | Aug., 1985 | July, 1986 | Aug., 1986 ${ }^{\text {p }}$ | State | Aug., 1985 | July, 1986 | Aug., 1986 ${ }^{\text {p }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 1,425.3 | 1,446.5 | 1,436.5 | Nebraska | 649.4 | 653.7 | 654.7 |
| Alaska | 249.2 | 243.3 | 243.5 | Nevada | 451.7 | 467.7 | 468.6 |
| Arizona .. | 1,262.3 | 1,331.6 | 1,335.4 | New Hampshire . | 478.1 | 490.5 | 494.7 |
| Arkansas | 805.6 | 817.3 | 823.4 | Now Hampshire . |  |  |  |
| California | 10,948.1 | 11,160.2 | 11,173.1 | New Jersey | 3,470.5 | 3,563.8 | 3,563.6 |
|  |  |  |  | New Mexico | 516.4 | 520.2 | 521.4 |
| Colorado .... | 1,419.5 | 1,444.3 | 1,447.9 | New York | 7,799.1 | 7,927.9 | 7,912.7 |
| Connecticut | 1,569.8 | 1,605.5 | 1,607.6 | North Carolina | 2,623.3 | 2,681.9 | 2,697.3 |
| Delaware ................ | 295.9 | 298.6 | 301.7 | North Dakota | 252.3 | 249.5 | 248.6 |
| Florida .................. | 4,367.5 | 4,502.1 | re67.1 | Ohio | 4,385.8 | 4.515 .6 | 4.523 .9 |
|  |  |  |  | Oklahoma | 1,173.2 | 1,149.5 | 1,139.3 |
| Georgia | 2,583.6 | 2,634.0 | 2,651.4 | Oregon | 1,034.7 | 1,046.4 | 1,059.4 |
| Hawaii | 423.7 | 431.3 | 431.5 | Pennsylvania | 4,756.4 | 4,808.8 | 4,833.3 |
| Idaho | 341.2 | 335.0 | 335.7 | Rhode Island | 426.1 | 424.7 | 430.6 |
| Illinois | 4,788.7 | 4,807.2 | 4,825.7 |  |  |  |  |
| Indiana | 2,185.9 | 2,253.1 | 2,263.7 | South Carolina | 1,301.1 | 1,339.0 | 1,345.8 |
| lowa |  |  |  | South Dakota | 250.4 | 251.5 | 252.0 |
| Kansas | 1,072.3 | 1,063.4 | 1,063.7 | Tennessee | 1,875.1 | 1,929.3 | 1,943.8 |
| Kentucky | 968.1 | 981.9 | 989.7 | Texas | 6,677.0 | 6,664.5 | 6,653.4 |
| Louisiana | $1,248.3$ | 1,272.8 | 1,275.4 | Utah | 626.9 | 632.7 | 632.7 |
| Maine . | 476.4 | 477.9 | 1,585.6 | Vermont | 223.9 | 223.0 | 224.6 |
|  |  |  |  | Virginia | 2,446.9 | 2,534.2 | 2,536.5 |
| Maryland | 1,900.5 | 1,949.3 | 1,942.1 | Washington | 1,720.9 | 1,761.0 | 1,773.0 |
| Massachusetts | 2,928.3 | 2,959.4 | 2,966.4 | West Virginia | 600.3 | 603.3 | 597.1 |
| Michigan .. | 3,506.7 | 3,549.3 | 3,577.9 | Wisconsin .... | 1,991.9 | 2,020.7 | 2,032.1 |
| Minnesota | 1,879.0 | 1,899.0 | 1,906.3 |  |  |  |  |
| Mississippi | 831.6 | 840.7 | 835.0 | Wyoming | 213.5 | 203.0 | 200.8 |
| Missouri | 2,111.2 | 2,153.9 | 2,162.9 | Puerto Rico | 673.4 | 725.9 | 697.2 |
| Montana | 280.9 | 274.1 | 273.1 | Virgin Islands ........................................... | 36.8 | 37.4 | 37.2 |

$p=$ preliminary
NOTE: Some data in this table may differ from data published elsewhere

MONTHLY LABOR REVIEW November 1986 - Current Labor Statistics: Employment Data
13. Employment of workers on nonagricultural payrolls by industry, monthly data seasonally adjusted
(In thousands)

| Industry | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. ${ }^{\text {P }}$ | Sept. ${ }^{\text {P }}$ |
| TOTAL | 94,496 | 97,614 | 98,128 | 98,428 | 98,666 | 98,910 | 99,296 | 99,429 | 99,484 | 99,783 | 99,918 | 99,843 | 100,105 | 100,261 | 100,368 |
| PRIVATE SECTOR | 78,472 | 81,199 | 81,592 | 81,853 | 82,073 | 82,281 | 82,659 | 82,748 | 82,785 | 83,072 | 83,198 | 83,161 | 83,508 | 83,641 | 83,746 |
| GOODS PROD | 24,727 | 24,930 | 24,843 | 24,903 | 24,931 | 24,977 | 25,101 | 25,038 | 24,945 | 25,038 | 24,965 | 24,854 | 24,869 | 24,886 | 24,843 |
| Mining | 966 | 930 | 917 | 913 | 907 | 901 | 897 | 880 | 852 | 821 | 790 | 772 | 768 | 752 | 745 |
| Oil and gas extraction | 607 | 585 | 577 | 571 | 565 | 560 | 556 | 541 | 518 | 488 | 461 | 446 | 442 | 431 | 426 |
| Construction | 4,383 | 4,687 | 4,728 | 4,754 | 4,765 | 4,787 | 4,901 | 4,864 | 4,838 | 4,972 | 4,974 | 4,947 | 4,980 | 5,012 | 5,014 |
| General building con | 1,161 | 1,251 | 1,267 | 1,276 | 1,283 | 1,287 | 1,330 | 1,320 | 1,298 | 1,315 | 1,314 | 1,299 | 1,299 | 1,305 | 1,299 |
| Manufacturing | 19,378 | 19,314 | 19,198 | 19,236 | 19,259 | 19,289 | 19,303 | 19,294 | 19,255 | 19,245 | 19,201 | 19,135 | 19,121 | 19,122 | 19,084 |
| Production workers | 13,285 | 13,130 | 13,029 | 13,059 | 13,074 | 13,100 | 13,111 | 13,097 | 13,061 | 13,060 | 13,025 | 12,979 | 12,961 | 12,966 | 12,942 |
| Durable goods | 11,505 | 11,516 | 11,421 | 11,447 | 11,453 | 11,461 | 11,466 | 11,455 | 11,418 | 11,415 | 11,378 | 11,307 | 11,294 | 11,296 | 11,258 |
| Production workers | 7,739 | 7,660 | 7,572 | 7,594 | 7,594 | 7,595 | 7,595 | 7.579 | 7,545 | 7,547 | 7,519 | 7,462 | 7,441 | 7,445 | 7,422 |
| Lumber and wood products | 704 | 700 | 702 | 705 | 708 | 710 | 716 | 716 | 715 | 719 | 719 | 721 | 724 | 729 | 732 |
| Furniture and fixtures ........... | 487 | 493 | 491 | 493 | 493 | 494 | 494 | 494 | 493 | 494 | 496 | 496 | 498 | 499 | 496 |
| Stone, clay, and glass products . | 593 | 591 | 590 | 591 | 591 | 593 | 596 | 597 | 594 | 600 | 599 | 597 | 593 | 593 | 595 |
| Primary metal industries ............. | 857 | 813 | 795 | 797 | 801 | 803 | 798 | 795 | 787 | 785 | 780 | 761 | 758 | 742 | 741 |
| Blast furnaces and basic steel products $\qquad$ | 334 | 305 | 304 | 304 | 302 | 303 | 300 | 299 | 293 | 291 | 288 | 286 | 285 | 265 | 264 |
| Fabricated metal products ............................ | 1,463 | 1,468 | 1,459 | 1,460 | 1,459 | 1,456 | 1,455 | 1,452 | 1,450 | 1,451 | 1,447 | 1,440 | 1,428 | 1,430 | 1,432 |
| Machinery, except electri | 2,198 | 2,182 | 2,147 | 2,146 | 2,139 | 2,133 | 2,137 | 2,127 | 2,118 | 2,111 | 2,100 | 2,089 | 2,079 | 2,075 | 2,048 |
| Electrical and electronic equipment $\qquad$ | 2,208 | 2,207 | 2,179 | 2,181 | 2,179 | 2,182 | 2,182 | 2,181 | 2,177 | 2,177 | 2,175 | 2,143 | 2,169 | 2,169 | 2,164 |
| Transportation equipmen | 1,901 | 1,971 | 1,970 | 1,987 | 1,993 | 1,998 | 1,996 | 1,998 | 1,989 | 1,986 | 1,972 | 1,974 | 1,969 | 1,978 | 1,973 |
| Motor vehicles and equipment | 862 | 876 | 871 | 873 | 870 | 872 | 867 | 864 | 858 | 854 | 839 | 839 | 824 | 831 | 827 |
| Instruments and related products | 714 | 723 | 723 | 722 | 723 | 725 | 724 | 725 | 726 | 723 | 721 | 717 | 713 | 716 | 714 |
| Miscellaneous manufacturing industries $\qquad$ | 382 | 369 | 365 | 365 | 367 | 367 | 368 | 370 | 369 | 369 | 369 | 369 | 363 | 365 | 363 |
| Nondurable goods | 7,873 | 7,798 | 7,777 | 7,789 | 7,806 | 7,828 | 7,837 | 7,839 | 7,837 | 7,830 | 7,823 | 7,828 | 7,827 | 7,826 | 7,826 |
| Production workers . | 5,546 | 5,470 | 5,457 | 5,465 | 5,480 | 5,505 | 5,516 | 5,518 | 5,516 | 5,513 | 5,506 | 5,517 | 5,520 | 5,521 | 5,520 |
| Food and kindred products | 1,612 | 1,608 | 1,607 | 1,610 | 1,612 | 1,623 | 1,623 | 1,631 | 1,632 | 1,633 | 1,640 | 1,648 | 1,645 | 1,650 | 1,651 |
| Tobacco manufactures ...... | 64 | 65 | 65 | 64 | 65 | 64 | 64 | 63 | 63 | 63 | 62 | 62 | 62 | 59 | 57 |
| Textile mill products | 746 | 704 | 697 | 699 | 701 | 702 | 702 | 705 | 707 | 703 | 705 | 707 | 710 | 711 | 709 |
| Apparel and other textile products $\qquad$ | 1,185 | 1,125 | 1,121 | 1,121 | 1,122 | 1,130 | 1,133 | 1,122 | 1,117 | 1,119 | 1,113 | 1,106 | 1,108 | 1,106 | 1.103 687 |
| Paper and allied products | 681 | 683 | 682 | 683 | 687 | 686 | 687 | 687 | 688 | 689 | 689 | 690 | 687 | 685 | 687 |
| Printing and publishing. | 1,376 | 1,435 | 1,442 | 1,447 | 1,454 | 1,457 | 1,461 | 1,467 | 1,469 | 1,472 | 1,474 | 1,477 | 1,483 | 1,480 | 1,482 |
| Chemicals and allied products. | 1,049 | 1,046 | 1,042 | 1,040 | 1,037 | 1,035 | 1,034 | 1,032 | 1,031 | 1,028 | 1,024 | 1,026 | 1,025 | 1,026 | 1,025 |
| Petroleum and coal products .... | 189 | 178 | 171 | 171 | 170 | 169 | 168 | 167 | 166 | 166 | 166 | 164 | 163 | 163 | 163 |
| Rubber and misc. plastics products $\qquad$ | 780 | 790 | 785 | 790 | 794 | 798 | 802 | 803 | 804 | 800 | 796 | 797 | 792 | 794 | 798 |
| Leather and leather products | 189 | 166 | 165 | 164 | 164 | 164 | 163 | 162 | 160 | 157 | 154 | 151 | 152 | 152 | 151 |
| SERVICE-PRODUCING | 69,769 | 72,684 | 73,285 | 73,525 | 73,735 | 73,933 | 74,195 | 74,391 | 74,539 | 74,745 | 74,953 | 74,989 | 75,236 | 75,375 | 75,525 |
| Transportation and public utillties $\qquad$ | 5,159 | 5,242 | 5,257 | 5,260 | 5,272 | 5,277 | 5,286 | 5,277 | 5,280 | 5,266 | 5,265 | 5,167 | 5,288 | 5,250 | 5,279 |
| Transportation | 2,917 | 3,006 | 3,023 | 3,026 | 3,040 | 3,046 | 3,056 | 3,048 | 3,053 | 3,040 | 3,037 | 3,035 | 3,057 | 3,059 | 3,058 |
| Communication and public utilities $\qquad$ | 2,242 | 2,236 | 2,234 | 2,234 | 2,232 | 2,231 | 2,230 | 2,229 | 2,227 | 2,226 | 2,228 | 2,132 | 2,231 | 2,191 | 2,221 |
| Wholesale trade | 5,555 | 5,740 | 5,777 | 5,796 | 5,796 | 5,809 | 5,830 | 5,843 | 5,841 | 5,864 | 5,872 | 5,829 | 5,849 | 5,872 | 5,874 |
| Durable goods.. | 3,276 | 3,409 | 3,432 | 3,442 | 3,451 | 3,460 | 3,470 | 3,482 | 3,480 | 3,485 | 3,488 | 3,454 | 3,483 | 3,488 | 3,489 |
| Nondurable goods | 2,279 | 2,331 | 2,345 | 2,354 | 2,345 | 2,349 | 2,360 | 2,361 | 2,361 | 2,379 | 2,384 | 2,375 | 2,366 | 2,384 | 2,385 |
| Retall trade | 16,545 | 17,360 | 17,489 | 17,543 | 17,589 | 17,622 | 17,734 | 17,795 | 17,828 | 17,851 | 17,911 | 17,944 | 17,992 | 18,026 | 18,069 |
| General merchan | 2,267 | 2,320 | 2,326 | 2,329 | 2,326 | 2,317 | 2,328 | 2,333 | 2,333 | 2,342 | 2,344 | 2,350 | 2,354 | 2,360 | 2,371 |
| Food stores ............ | 2,637 | 2,779 | 2,813 | 2,828 | 2,845 | 2,870 | 2,880 | 2,891 | 2,901 | 2,910 | 2,917 | 2,932 | 2,938 | 2,950 | 2,951 |
| Automotive dealers and service stations $\qquad$ | 1,799 | 1,892 | 1,910 | 1,916 | 1,918 | 1,922 | 1,929 | 1,938 | 1,939 | 1,940 | 1,944 | 1,945 | 1,950 | 1,961 | 1,972 |
| Eating and drinking places | 5,388 | 5,715 | 5,761 | 5,772 | 5,783 | 5,801 | 5,831 | 5,854 | 5,868 | 5,859 | 5,889 | 5,918 | 5,931 | 5,921 | 5,938 |
| Finance, Insurance, and real estate $\qquad$ | 5,689 | 5,953 | 6,014 | 6,038 | 6,070 | 6,095 | 6,123 | 6,157 | 6,184 | 6,228 | 6,261 | 6,295 | 6,334 | 6,365 | 6,385 |
| Finance. | 2,854 | 2,979 | 3,011 | 3,024 | 3,039 | 3,053 | 3,066 | 3,082 | 3,095 | 3,120 | 3,137 | 3,159 | 3,176 | 3,193 | 3,203 |
| Insurance . | 1,757 | 1,830 | 1,846 | 1,852 | 1,862 | 1,868 | 1,878 | 1,889 | 1,900 | 1,910 | 1,918 | 1,927 | 1,945 | 1,952 | 1,962 |
| Real estate | 1,078 | 1,144 | 1,157 | 1,162 | 1,169 | 1,174 | 1,179 | 1,186 | 1,189 | 1,198 | 1,206 | 1,209 | 1,213 | 1,220 | 1,220 |
| Services | 20,797 | 21,974 | 22,212 | 22,313 | 22,415 | 22,501 | 22,585 | 22,638 | 22,707 | 22,825 | 22,924 | 23,072 | 23,176 | 23,242 | 23,296 |
| Business services | 4,057 | 4,452 | 4,542 | 4,567 | 4,604 | 4,631 | 4,660 | 4,687 | 4,698 | 4,750 | 4,755 | 4,792 | 4,835 | 4,845 | 4,885 |
| Health services.. | 6,122 | 6,310 | 6,350 | 6,375 | 6,401 | 6,424 | 6,447 | 6,471 | 6,497 | 6,511 | 6,543 | 6,571 | 6,601 | 6,634 | 6,656 |
| Government | 16,024 | 16,415 | 16,536 | 16,575 | 16,593 | 16,629 | 16,637 | 16,681 | 16,699 | 16,711 | 16,720 | 16,682 | 16,597 | 16,620 | 16,622 |
| Federal. | 2,807 | 2,875 | 2,899 | 2,895 | 2,904 | 2,913 | 2,918 | 2,918 | 2,923 | 2,914 | 2,899 | 2,875 | 2,866 | 2,876 | 2,911 |
| State. | 3,734 | 3,848 | 3,878 | 3,895 | 3,901 | 3,904 | 3,916 | 3,924 | 3,927 | 3,938 | 3,936 | 3,927 | 3,921 | 3,917 | 3,902 |
| Local .... | 9,482 | 9,692 | 9,759 | 9,785 | 9,788 | 9,812 | 9,803 | 9,839 | 9,849 | 9,859 | 9,885 | 9,880 | 9,810 | -9,827 | 9,809 |

$\mathrm{p}=$ preliminary
NOTE: See notes on the data for a description of the most recent benchmark
14. Average weekly hours of production or nonsupervisory workers on private nonagricultural payrolls by industry, monthly data seasonally adjusted

| Industry | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. ${ }^{\text {P }}$ | Sept. ${ }^{\text {p }}$ |
| PRIVATE SECTOR | 35.2 | 34.9 | 34.9 | 34.9 | 34.8 | 34.9 | 35.0 | 34.9 | 34.9 | 34.8 | 34.8 | 34.7 | 34.7 | 34.8 | 34.7 |
| CONSTRUCTION | 37.8 | 37.7 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MANUFACTURING .............................................. | 40.7 | 40.5 | 40.7 | 40.7 | 40.7 | 40.9 | 40.8 | 40.7 | 40.7 | 40.7 | 40.7 | 40.6 | 40.6 | 40.8 | 40.8 |
| Overtime hours ............................................. | 3.4 | 3.3 | 3.3 | 3.4 | 3.4 | 3.6 | 3.5 | 3.4 | 3.4 | 3.4 | 3.4 | 3.3 | 3.4 | 3.5 | 3.5 |
| Durable goods .. | 41.4 | 41.2 | 41.3 | 41.3 | 41.3 | 41.6 | 41.5 | 41.4 | 41.4 | 41.3 | 41.2 | 41.2 | 41.1 | 41.4 | 41.5 |
| Overtime hours .............. | 3.6 | 3.5 | 3.5 | 3.5 | 3.6 | 3.7 | 3.6 | 3.5 | 3.6 | 3.6 | 3.4 | 3.5 | 3.5 | 3.5 | 3.6 |
| Lumber and wood products ............................... | 39.9 | 39.9 | 40.1 | 40.2 | 39.9 | 40.2 | 40.4 | 40.0 | 40.2 | 40.3 | 40.3 | 39.9 | 40.1 | 40.2 | 40.3 |
| Furniture and fixtures ........................................ | 39.7 | 39.4 | 39.4 | 39.5 | 39.4 | 39.9 | 40.0 | 39.7 | 39.4 | 39.1 | 39.4 | 39.4 | 39.4 | 39.9 | 40.1 |
| Stone, clay, and glass products ......................... | 42.0 | 41.9 | 42.0 | 42.1 | 41.8 | 41.8 | 42.7 | 41.9 | 41.9 | 42.4 | 42.3 | 42.2 | 42.2 | 42.5 | 42.5 |
| Primary metal industries | 41.7 | 41.5 | 41.5 | 41.8 | 41.9 | 42.1 | 41.9 | 42.1 | 41.9 | 41.3 | 41.7 | 41.6 | 41.3 | 41.9 | 42.2 |
| Blast furnaces and basic steel products | 40.7 | 41.1 | 41.1 | 41.6 | 41.9 | 41.9 | 41.7 | 41.8 | 41.7 | 40.5 | 41.5 | 41.1 | 41.2 | 41.7 | 42.6 |
| Fabricated metal products .................................. | 41.4 | 41.3 | 41.5 | 41.5 | 41.5 | 41.6 | 41.5 | 41.5 | 41.4 | 41.2 | 41.1 | 41.1 | 41.1 | 41.3 | 41.5 |
| Machinery except electrical ............................... | 41.9 | 41.5 | 41.6 | 41.5 | 41.6 | 41.7 | 41.6 | 41.6 | 41.6 | 41.8 | 41.8 | 41.7 | 41.4 | 41.6 | 41.8 |
| Electrical and electronic equipment .................... | 41.0 | 40.6 | 40.5 | 40.6 | 40.9 | 41.1 | 41.0 | 40.9 | 41.0 | 41.1 | 41.0 | 41.0 | 41.1 | 41.2 | 41.2 |
| Transportation equipment .................................. | 42.7 | 42.6 | 42.9 | 42.8 | 42.7 | 43.0 | 42.8 | 42.7 | 42.7 | 42.1 | 41.9 | 42.2 | 42.1 | 42.8 | 42.3 |
| Motor vehicles and equipment ......................... | 43.8 | 43.5 | 43.6 | 43.7 | 43.6 | 44.0 | 43.6 | 43.4 | 43.3 | 41.9 | 41.8 | 42.4 | 42.4 | 43.0 | 42.4 |
| Instruments and related products ...................... | 41.3 | 41.0 | 40.9 | 40.9 | 41.0 | 41.6 | 41.1 | 41.2 | 41.3 | 41.3 | 40.9 | 41.0 | 40.8 | 40.9 | 40.7 |
| Miscellaneous manufacturing ........ | 39.4 | 39.4 | - |  | - | - | - | - | - | - | , | - | - | 40.9 | 40.7 |
| Nondurable goods | 39.7 | 39.6 | 39.8 | 39.8 | 39.8 | 40.0 | 39.9 | 39.7 | 39.8 | 39.9 | 39.9 | 39.8 | 39.8 | 39.9 | 39.9 |
| Overtime hours | 3.1 | 3.1 | 3.1 | 3.2 | 3.2 | 3.4 | 3.3 | 3.2 | 3.2 | 3.3 | 3.4 | 3.2 | 3.4 | 3.4 | 3.3 |
| Food and kindred products | 39.8 | 40.0 | 40.1 | 40.2 | 40.0 | 40.1 | 40.1 | 39.8 | 39.9 | 40.2 | 40.2 | 40.0 | 40.0 | 40.2 | 39.9 |
| Tobacco manufactures | 38.9 | 37.2 | - | - | - | - | - | - | - | - | - | . | . | 40.2 | 30.0 |
| Textile mill products ............ | 39.9 | 39.7 | 40.5 | 40.7 | 40.8 | 41.0 | 40.8 | 40.6 | 40.7 | 41.3 | 41.1 | 40.8 | 40.9 | 41.4 | 41.4 |
| Apparel and other textile products ..................... | 36.4 | 36.4 | 36.6 | 36.6 | 36.8 | 36.8 | 36.7 | 36.3 | 36.5 | 36.9 | 36.5 | 36.5 | 36.6 | 36.4 | 36.5 |
| Paper and allied products .............. | 43.1 | 43.1 | 43.1 | 43.2 | 43.3 | 43.5 | 43.6 | 43.5 | 43.5 | 43.0 | 43.2 | 43.1 | 43.2 | 43.4 | 43.2 |
| Printing and publishing ...................................... | 37.9 | 37.8 | 37.9 | 37.9 | 37.9 | 38.1 | 38.0 | 38.0 | 38.0 | 38.0 | 38.0 | 37.8 | 37.9 | 37.9 | 38.0 |
| Chemicals and allied products ........................... | 41.9 | 41.9 | 41.7 | 41.8 | 41.9 | 42.0 | 41.9 | 41.8 | 41.9 | 41.9 | 42.0 | 41.9 | 41.9 | 42.0 | 41.8 |
| Petroleum and coal products ............................. | 43.7 | 43.0 | 43.3 | 44.2 | 43.2 | 43.6 | 43.5 | 43.7 | 43.8 | 43.6 | 43.4 | 44.0 | 43.5 | 44.4 | 43.7 |
| Leather and leather products ............................. | 36.8 | 37.2 | . | , | 43.2 | 43.6 | 43.5 | 43.7 | - | 43.6 | 43.4 | 44.0 | 43.5 | 44.4 | 43.7 |
| TRANSPORTATION AND PUBLIC UTILITIES ..... | 39.4 | 39.5 | 39.5 | 39.5 | 39.4 | 39.5 | 39.4 | 39.5 | 39.6 | 39.2 | 39.2 | 39.1 | 39.2 | 39.0 | 38.9 |
| WHOLESALE TRADE | 38.5 | 38.4 | 38.4 | 38.4 | 38.4 | 38.4 | 38.5 | 38.4 | 38.5 | 38.5 | 38.4 | 38.3 | 38.3 | 38.3 | 38.3 |
| RETAIL TRADE | 29.8 | 29.4 | 29.4 | 29.3 | 29.3 | 29.2 | 29.3 | 29.3 | 29.3 | 29.2 | 29.2 | 29.1 | 29.2 | 29.3 | 29.2 |
| SERVICES | 32.6 | 32.5 | 32.4 | 32.5 | 32.4 | 32.5 | 32.6 | 32.6 | 32.5 | 32.5 | 32.5 | 32.4 | 32.4 | 32.4 | 32.4 |
| - Data not available. <br> $p=$ preliminary |  |  |  |  |  | OTE: <br> hmar | N adjustm | otes on ent. | the | for | a desc | ption | the | ost |  |

15. Average hourly earnings of production or nonsupervisory workers on private nonagricultural payrolls by industry

| Industry | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. ${ }^{\text {P }}$ | Sept. ${ }^{\text {P }}$ |
| PRIVATE SECTOR | \$8.32 | \$8.57 | \$8.67 | \$8.64 | \$8.66 | \$8.71 | \$8.72 | \$8.74 | \$8.73 | \$8.72 | \$8.72 | \$8.71 | \$8.69 | \$8.69 | \$8.81 |
| Seasonally adjusted | - | - | 8.62 | 8.63 | 8.65 | 8.70 | 8.68 | 8.71 | 8.73 | 8.72 | 8.73 | 8.74 | 8.73 | 8.75 | 8.77 |
| MINING | 11.63 | 11.98 | 12.05 | 12.00 | 12.07 | 12.27 | 12.24 | 12.32 | 12.35 | 12.43 | 12.44 | 12.50 | 12.46 | 12.45 | 12.49 |
| CONSTRUCTION | 12.13 | 12.31 | 12.46 | 12.42 | 12.28 | 12.47 | 12.34 | 12.35 | 12.22 | 12.29 | 12.33 | 12.31 | 12.31 | 12.40 | 12.55 |
| MANUFACTURING | 9.19 | 9.53 | 9.57 | 9.56 | 9.63 | 9.74 | 9.70 | 9.70 | 9.72 | 9.70 | 9.71 | 9.70 | 9.74 | 9.67 | 9.75 |
| Durable goods | 9.74 | 10.10 | 10.15 | 10.15 | 10.22 | 10.34 | 10.27 | 10.29 | 10.30 | 10.28 | 10.28 | 10.26 | 10.27 | 10.22 | 10.30 |
| Lumber and wood products | 8.03 | 8.22 | 8.33 | 8.30 | 8.29 | 8.35 | 8.30 | 8.36 | 8.33 | 8.32 | 8.37 | 8.43 | 8.36 | 8.40 | 8.44 |
| Furniture and fixtures .......... | 6.84 | 7.17 | 7.27 | 7.29 | 7.32 | 7.38 | 7.36 | 7.31 | 7.35 | 7.36 | 7.39 | 7.46 | 7.44 | 7.46 | 7.52 |
| Stone, clay, and glass products | 9.57 | 9.84 | 9.91 | 9.87 | 9.91 | 9.95 | 9.96 | 9.94 | 9.93 | 10.00 | 10.04 | 10.04 | 10.06 | 10.07 | 10.10 |
| Primary metal industries ............ | 11.47 | 11.68 | 11.69 | 11.61 | 11.77 | 11.84 | 11.81 | 11.96 | 11.99 | 12.00 | 12.02 | 11.94 | 12.06 | 11.86 | 11.96 |
| Blast furnaces and basic steel products ........... | 12.98 | 13.34 | 13.43 | 13.32 | 13.43 | 13.44 | 13.48 | 13.81 | 13.80 | 13.82 | 13.86 | 13.88 | 14.08 | 13.91 | 14.09 |
| Fabricated metal products ................................. | 9.40 | 9.70 | 9.74 | 9.71 | 9.76 | 9.91 | 9.85 | 9.85 | 9.88 | 9.84 | 9.85 | 9.88 | 9.84 | 9.81 | 9.88 |
| Machinery, except electrical | 9.96 | 10.29 | 10.38 | 10.41 | 10.48 | 10.55 | 10.50 | 10.53 | 10.58 | 10.55 | 10.55 | 10.55 | 10.57 | 10.56 | 10.60 |
| Electrical and electronic equipment .................... | 9.04 | 9.47 | 9.54 | 9.55 | 9.61 | 9.68 | 9.60 | 9.60 | 9.62 | 9.62 | 9.64 | 9.61 | 9.68 | 9.67 | 9.74 |
| Transportation equipment ................................... | 12.20 | 12.72 | 12.78 | 12.78 | 12.85 | 13.06 | 12.91 | 12.87 | 12.90 | 12.83 | 12.79 | 12.78 | 12.78 | 12.74 | 12.88 |
| Motor vehicles and equipment. | 12.73 | 13.42 | 13.48 | 13.44 | 13.52 | 13.81 | 13.66 | 13.59 | 13.66 | 13.54 | 13.47 | 13.41 | 13.40 | 13.34 | 13.54 |
| Instruments and related products | 8.84 | 9.16 | 9.25 | 9.24 | 9.27 | 9.39 | 9.32 | 9.39 | 9.41 | 9.41 | 9.40 | 9.41 | 9.47 | 9.53 | 9.57 7.56 |
| Miscellaneous manufacturing ....... | 7.05 | 7.30 | 7.33 | 7.32 | 7.37 | 7.48 | 7.48 | 7.50 | 7.51 | 7.50 | 7.54 | 7.54 | 7.59 | 7.52 | 7.56 |
| Nondurable goods | 8.38 | 8.71 | 8.73 | 8.72 | 8.79 | 8.87 | 8.86 | 8.86 | 8.88 | 8.88 | 8.90 | 8.91 | 8.99 | 8.93 | 8.98 |
| Food and kindred products ............................... | 8.39 | 8.57 | 8.53 | 8.51 | 8.61 | 8.71 | 8.72 | 8.71 | 8.74 | 8.75 | 8.78 | 8.74 | 8.75 | 8.64 | 8.68 |
| Tobacco manufactures ...................................... | 11.22 | 11.94 | 11.34 | 11.31 | 11.97 | 11.78 | 11.89 | 12.38 | 12.76 | 12.84 | 13.38 | 13.68 | 13.48 | 13.41 | 12.51 |
| Textile mill products ............................................ | 6.46 | 6.71 | 6.75 | 6.76 | 6.79 | 6.83 | 6.85 | 6.83 | 6.86 | 6.87 | 6.88 | 6.87 | 6.90 | 6.98 5 | 7.04 |
| Apparel and other textile products ..................... | 5.55 | 5.73 | 5.75 | 5.74 | 5.75 | 5.80 | 5.82 | 5.79 | 5.80 | 5.81 | 5.78 | 5.79 | 5.76 | 5.79 | 5.87 |
| Paper and allied products ................................. | 10.41 | 10.82 | 10.91 | 10.91 | 10.97 | 11.07 | 11.02 | 10.99 | 11.03 | 11.05 | 11.12 | 11.15 | 11.31 | 11.18 | 11.17 |
| Printing and publishing | 9.41 | 9.71 | 9.81 | 9.78 | 9.83 | 9.92 | 9.85 | 9.86 | 9.90 | 9.87 | 9.91 | 9.88 | 9.96 | 10.00 | 10.10 |
| Chemicals and allied products ........................... | 11.07 | 11.56 | 11.65 | 11.70 | 11.80 | 11.85 | 11.86 | 11.81 | 11.78 | 11.82 | 11.89 | 11.94 | 12.04 | 11.98 | 12.03 |
| Petroleum and coal products ............................. | 13.44 | 14.06 | 14.09 | 13.99 | 14.07 | 14.24 | 14.26 | 14.21 | 14.22 | 14.16 | 14.02 | 14.14 | 14.16 | 14.08 | 14.50 |
| Rubber and miscellaneous plastics products ..... | 8.29 | 8.54 | 8.56 | 8.54 | 8.63 | 8.73 | 8.69 | 8.69 | 8.72 | 8.68 | 8.75 | 8.75 | 8.82 | 8.81 | 8.81 |
| Leather and leather products ............................. | 5.71 | 5.82 | 5.83 | 5.77 | 5.83 | 5.83 | 5.86 | 5.83 | 5.86 | 5.89 | 5.88 | 5.88 | 5.89 | 5.89 | 5.94 |
| TRANSPORTATION AND PUBLIC UTILITIES .... | 11.12 | 11.40 | 11.54 | 11.48 | 11.59 | 11.61 | 11.59 | 11.64 | 11.62 | 11.55 | 11.54 | 11.57 | 11.61 | 11.58 | 11.67 |
| WHOLESALE TRADE | 8.89 | 9.16 | 9.22 | 9.16 | 9.23 | 9.33 | 9.28 | 9.36 | 9.33 | 9.29 | 9.29 | 9.32 | 9.30 | 9.31 | 9.35 |
| RETAIL TRADE ................................................... | 5.85 | 5.94 | 5.98 | 5.95 | 5.97 | 5.99 | 6.03 | 6.04 | 6.03 | 6.01 | 6.00 | 5.99 | 5.97 | 5.95 | 6.04 |
| FINANCE, INSURANCE, AND REAL ESTATE ..... | 7.63 | 7.94 | 8.04 | 8.01 | 8.06 | 8.15 | 8.14 | 8.28 | 8.30 | 8.29 | 8.31 | 8.37 | 8.30 | 8.34 | 8.41 |
| SERVICES .......................................................... | 7.59 | 7.89 | 7.99 | 7.99 | 8.05 | 8.12 | 8.12 | 8.17 | 8.18 | 8.12 | 8.10 | 8.10 | 8.04 | 8.04 | 8.20 |

[^30]benchmark revision.
16. Average weekly earnings of production or nonsupervisory workers on private nonagricultural payrolls by industry

| Industry | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. ${ }^{\text {P }}$ | Sept. ${ }^{\text {P }}$ |
| PRIVATE SECTOR | $\$ 292.86$ <br> 172.78 |  | $\begin{array}{\|r\|} \$ 303.45 \\ 300.84 \\ 171.83 \end{array}$ | $\begin{array}{\|r\|} \$ 301.54 \\ 301.19 \\ 170.36 \end{array}$ | $\begin{array}{r} \$ 301.37 \\ 301.02 \\ 169.59 \end{array}$ | $\begin{array}{\|r\|} \$ 306.59 \\ 303.63 \\ 172.05 \end{array}$ | $\begin{array}{\|r\|} \hline \$ 302.58 \\ 303.80 \\ 169.32 \end{array}$ | $\begin{array}{r} \$ 300.66 \\ 303.98 \\ 168.82 \end{array}$ | $\begin{array}{\|r\|} \$ 302.93 \\ 304.68 \\ 171.05 \\ \hline \end{array}$ | $\begin{array}{\|r\|} \hline \$ 301.71 \\ 303.46 \\ 170.94 \end{array}$ | \$302.58 | \$303.98 | \$304.15 | \$305.02 |  |
| Current dollars .. |  |  |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{array}{r} \$ 307.47 \\ 304.32 \end{array}$ |
| Seasonally adjusted ...................................... |  |  |  |  |  |  |  |  |  |  | 303.80 | 303.28 | 302.93 | 304.50 |  |
| Constant (1977) dollars ................................... |  |  |  |  |  |  |  |  |  |  | 170.85 | 170.78 | 170.97 | 171.17 | - |
| MINING | 503.58 | 519.93 | 526.59 | 518.40 | 521.42 | 537.43 | 543.46 | 522.37 | 522.41 | 522.06 | 519.99 | 525.00 | 518.34 | 527.88 | 533.32 |
| CONSTRUCTION ................................................. | 458.51 | 464.09 | 479.71 | 475.69 | 450.68 | 460.14 | 459.05 | 434.72 | 444.81 | 462.10 | 467.31 | 465.32 | 471.47 | 474.92 | 485.69 |
| MANUFACTURING |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Constant (1977) dollars | 220.67 | $\begin{aligned} & 385.97 \\ & 219.93 \end{aligned}$ | 390.46 | $\begin{aligned} & 390.05 \\ & 220.37 \end{aligned}$ | 393.87 | 406.16 | 394.79 | 390.91 219.49 | 395.60 223.38 | 392.85 222.58 | 222.60 | 222.34 | 220.10 | 220.86 | 399.75 |
| Durable goods | 403.24 | 416.12 | 420.21 | 419.20 | 424.13 | 439.45 | 425.18 | 421.89 | 426.42 | 423.54 | 423.54 | 424.76 | 417.99 | 421.06 | 428.48 |
| Lumber and wood products | 320.40 | 327.98 | 338.20 | 335.32 | 327.46 | 335.67 | 329.51 | 328.55 | 333.20 | 334.46 | 338.99 | 342.26 | 334.40 | 341.04 | 345.20 |
| Furniture and fixtures | 271.55 | 282.50 | 289.35 | 291.60 | 291.34 | 303.32 | 289.98 | 284.36 | 288.12 | 286.30 | 288.21 | 294.67 | 287.93 | 298.40 | 304.56 |
| Stone, clay, and glass products | 401.94 | 412.30 | 421.18 | 419.48 | 414.24 | 414.92 | 414.34 | 403.56 | 412.10 | 425.00 | 428.71 | 429.71 | 427.55 | 432.00 | 435.31 |
| Primary metal industries | 478.30 | 484.72 | 486.30 | 480.65 | 491.99 | 504.38 | 493.66 | 503.52 | 504.78 | 499.20 | 501.23 | 499.09 | 495.67 | 492.19 | 505.91 |
| Blast furnaces and basic steel products | 528.29 | 548.27 | 553.32 | 544.79 | 557.35 | 564.48 | 556.72 | 578.64 | 576.84 | 569.38 | 576.58 | 577.41 | 582.91 | 575.87 | 600.23 |
| Fabricated metal products . | 389.16 | 400.61 | 405.18 | 403.94 | 406.02 | 422.17 | 407.79 | 403.85 | 409.03 | 403.44 | 404.84 | 408.04 | 398.52 | 403.19 | 411.01 |
| Machinery, except electrical | 417.32 | 427.04 | 431.81 | 430.97 | 438.06 | 452.60 | 437.85 | 437.00 | 442.24 | 437.83 | 437.83 | 439.94 | 431.26 | 435.07 | 443.08 |
| Electrical and electronic equipme | 370.64 | 384.48 | 387.32 | 387.73 | 396.89 | 408.50 | 394.56 | 389.76 | 395.38 | 392.50 | 393.31 | 394.01 | 391.07 | 395.50 | 402.26 |
| Transportation equipment | 520.94 | 541.87 | 544.43 | 545.71 | 551.27 | 577.25 | 555.13 | 545.69 | 552.12 | 542.71 | 537.18 | 540.59 | 530.37 | 533.81 | 540.96 |
| Motor vehicles and equipment | 557.57 | 583.77 | 585.03 | 585.98 | 588.12 | 625.59 | 595.58 | 583.01 | 592.84 | 574.10 | 567.09 | 572.61 | 560.12 | 557.61 | 571.39 |
| Instruments and related products | 365.09 | 375.56 | 380.18 | 376.07 | 382.85 | 400.01 | 383.05 | 384.99 | 389.57 | 385.81 | 382.58 | 385.81 | 382.59 | 386.92 | 391.41 |
| Miscellaneous manufacturing ....... | 277.77 | 287.62 | 293.20 | 295.00 | 296.27 | 304.44 | 297.70 | 294.75 | 299.65 | 297.75 | 297.08 | 298.58 | 294.49 | 295.54 | 299.38 |
| Nondurable goods | 332.69 | 344.92 | 349.20 | 347.93 | 351.60 | 359.24 | 352.63 | 347.31 | 352.54 | 351.65 | 354.22 | 355.51 | 356.00 | 357.20 | 360.10 |
| Food and kindred products |  | 342.80 | 348.02 | 343.80 | 346.12 | 354.50 | 347.93 | 339.69 | 344.36 | 346.50 | 352.08 | 350.47 | 350.00 | 350.78 | $352.41$ |
| Tobacco manufactures | $436.46$ | $\begin{aligned} & 444.17 \\ & 266.39 \end{aligned}$ | 434.32 275.40 | 444.48276.48 | 435.71 | 448.82 | 448.25 | 453.11 | 478.50 | 469.94 | 504.43 | 523.94 | 483.93 | 485.44 | $480.38$ |
| Textile mill products | $\begin{aligned} & 257.75 \\ & 202.02 \end{aligned}$ |  | 275.40 |  | 279.75 | 283.45 | 278.80 | 274.57 | 278.52 | 278.92 | 282.08 | 283.04 | 278.07 | 290.37 | 293.57 |
| Apparel and other textile products |  | $\begin{aligned} & 266.39 \\ & 208.57 \end{aligned}$ | 210.45 | 211.23 | 212.75 | 215.18 | 213.01 | 207.28 | 211.70 | 211.48 | 210.97 | 213.65 | 209.09 | 211.34 | 214.26 |
| Paper and allied products ............. | 448.67 | 466.34 | 473.49 | 472.40 | 477.20 | 490.40 | 479.37 | 472.57 | 477.60 | 474.05 | 479.27 | 480.57 | 486.33 | 482.98 | 485.90 |
| Printing and publishing . | 356.64 | 367.04 | 374.74 | 371.64 | 375.51 | 384.90 | 371.35 | 370.74 | 377.19 | 374.07 | 374.60 | 370.50 | 374.50 | 380.00 | 386.83 |
| Chemicals and allied products ........................... | 463.83 | 484.36 | 486.97 | 486.72 | 495.60 | 503.63 | 495.75 | 492.48 | 494.76 | 495.26 | 499.38 | 502.67 | 502.07 | 499.57 | 502.85 |
| Petroleum and coal products $\qquad$ <br> Rubber and miscellaneous | 587.33 | 604.58 | 621.37 | 619.76 | 610.64 | 622.29 | 616.03 | 612.45 | 621.41 | 615.96 | 605.66 | 622.16 | 618.79 | 625.15 | 643.80 |
| plastics products ............. | 345.69 | 350.99 | 351.82 | 350.99 | 356.42 | 366.66 | 359.77 | 356.29 | 360.14 | 356.75 | 360.50 | 361.38 | 357.21 | 362.97 | 364.73 |
| Leather and leather products | 210.13 | 216.50 | 219.21 | 216.95 | 219.21 | 220.96 | 217.41 | 209.88 | 212.72 | 213.81 | 215.80 | 221.68 | 217.93 | 215.57 | 216.81 |
| TRANSPORTATION AND PUBLIC UTILITIES | 438.13 | 450.30 | 458.14 | 453.46 | 457.81 | 460.92 | 452.01 | 456.29 | 457.83 | 450.45 | 450.06 | 455.86 | 457.43 | 455.09 | 45 |
| WHOLESALE TRADE | 342.27 | 351.74 | 354.97 | 351.74 | 355.36 | 360.14 | 355.42 | 355.68 | 357.34 | 355.81 | 356.74 | 358.82 | 358.05 | 357.50 | 359.04 |
| RETAIL TRADE | 174.33 | 174.64 | 175.81 | 173.74 | 173.73 | 178.50 | 173.06 | 172.74 | 174.27 | 173.69 | 174.60 | 176.71 | 178.50 | 178.50 | 176.37 |
| FINANCE, INSURANCE, AND REAL ESTATE | 278.50 | 289.02 | 293.46 | 290.76 | 291.77 | 299.11 | 296.30 | 304.70 | 304.61 | 301.76 | 301.65 | 306.34 | 302.95 | 306.08 | 306.97 |
| SERVICES | 247.43 | 256.43 | 258.88 | 259.68 | 260.02 | 263.90 | 263.09 | 264.71 | 265.03 | 263.09 | 262.44 | 264.06 | 263.71 | 263.71 | 265.68 |

- Data not available
$p=$ preliminary

NOTE: See "Notes on the data" for a description of the most recent benchmark revision.
17. The Hourly Earnings Index for production or nonsupervisory workers on private nonagricultural payrolls by industry

| Industry | Not seasonally adjusted |  |  |  | Seasonally adjusted |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Sept. } \\ & 1985 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1986 \end{gathered}$ | $\begin{aligned} & \text { Aug. } \\ & 1986^{p} \end{aligned}$ | $\begin{aligned} & \text { Sept. } \\ & 1986^{p} \end{aligned}$ | $\begin{aligned} & \text { Sept. } \\ & 1985 \end{aligned}$ | $\begin{gathered} \text { May } \\ 1986 \end{gathered}$ | $\begin{aligned} & \text { June } \\ & 1986 \end{aligned}$ | $\begin{gathered} \text { July } \\ 1986 \end{gathered}$ | Aug. <br> 1986 | $\begin{gathered} \text { Sept. } \\ 1986^{p} \end{gathered}$ |
| PRIVATE SECTOR (in current dollars) ......................... | 166.7 | 168.5 | 168.4 | 170.0 | 166.4 | 168.7 | 169.2 | 168.9 | 169.2 | 169.7 |
| Mining ${ }^{1}$ | 179.4 | 181.7 | 180.8 | 181.4 | - | - | - | - | - | - |
| Construction . | 152.5 | 150.3 | 151.4 | 153.3 | 150.7 | 151.0 | 151.4 | 150.8 | 151.4 | 151.5 |
| Manufacturing ........................................................... | 169.3 | 172.8 | 172.2 | 172.8 | 169.5 | 172.5 | 172.5 | 172.7 | 173.0 | 173.0 |
| Transportation and public utilities .............................. | 168.6 | 169.3 | 169.2 | 170.8 | 167.9 | 170.1 | 170.7 | 170.3 | 169.7 | 170.1 |
| Wholesale trade ${ }^{1}$....................................................... | 170.2 | 171.4 | 171.6 | 172.5 | - | - | - | - | - | - |
| Retail trade | 157.0 | 157.4 | 157.1 | 158.9 | 156.8 | 157.2 | 157.8 | 157.7 | 158.2 | 158.8 |
| Finance, insurance, and real estate ${ }^{1}$........................... | 174.0 | 179.1 | 179.9 | 181.2 | - | - | - | - | - | - |
| Services ................................................................ | 170.5 | 172.4 | 172.5 | 175.6 | 169.8 | 173.4 | 174.3 | 173.4 | 174.3 | 174.9 |
| PRIVATE SECTOR (in constant dollars) ....................... | 94.4 | 94.7 | 94.5 | - | 94.4 | 95.4 | 95.2 | 95.1 | 95.1 | - |

[^31]18. Indexes of diffusion: industries in which employment increased, data seasonally adjusted
(In percent)

| Time span and year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Over 1-month span |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984 .................................................................... | 67.8 | 72.7 | 67.6 | 67.6 | 62.4 | 65.4 | 62.2 | 55.9 | 50.5 | 63.0 | 53.5 | 57.0 |
| 1985 .................................................................. | 52.4 | 47.8 | 53.8 | 49.2 | 51.6 | 47.0 | 56.2 | 56.8 | 50.8 | 61.9 | 57.6 | 59.5 |
| 1986 ................................................................ | 59.7 | 53.5 | 45.1 | 54.1 | 49.2 | 46.2 | 54.6 | 55.7 | 51.4 | - | - | - |
| Over 3-month span |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984 | 76.5 | 75.1 | 75.9 | 71.4 | 71.6 | 68.1 | 63.2 | 58.1 | 56.8 | 53.5 | 58.1 | 53.0 |
| 1985 ................................................................. | 51.1 | 49.7 | 46.2 | 46.2 | 45.1 | 51.4 | 49.7 | 51.1 | 55.1 | 55.9 | 61.4 | 60.5 |
| 1986 ................................................................. | 58.1 | 54.3 | 51.1 | 49.7 | 48.4 | 44.9 | 48.6 | 52.7 | - | - | - | - |
| Over 6-month span |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984. | 78.1 | 76.5 | 77.0 | 75.1 | 69.2 | 65.1 | 63.2 | 59.2 | 58.6 | 53.2 | 49.7 | 54.9 |
| 1985 | 49.2 | 47.8 | 43.0 | 45.9 | 44.3 | 44.3 | 48.9 | 50.8 | 54.1 | 57.0 | 57.0 | 55.9 |
| 1986 | 53.8 | 53.8 | 47.6 | 45.9 | 46.8 | 47.8 | - | - | - | - | - | - |
| Over 12-month span |  |  |  |  |  |  |  |  |  |  |  |  |
| 1984 ........................ | 81.1 | 78.1 | 72.2 | 72.2 | 68.9 | 67.8 | 65.7 | 62.7 | 59.7 | 54.6 | 51.4 | 48.6 |
| 1985 .................................................................. | 46.2 | 45.7 | 46.8 | 43.8 | 44.9 | 47.3 | 47.6 | 48.9 | 47.3 | 49.5 | 48.9 | 48.6 |
| 1986 ................................................................. | 50.3 | 50.8 | 50.5 | - | - | - | - | - | - | - | - | - |

## - Data not available

NOTE: Figures are the percent of industries with employment rising. (Half of the unchanged components are counted as rising.) Data are centered within the
spans. Data for the most recent months shown in each span are preliminary. See the "Definitions" in this section. See "Notes on the data" for a description of the most recent benchmark revision.
19. Annual data: Employment status of the noninstitutional population
(Numbers in thousands)

| Employment status | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Noninstitutional population ................................... | 160,689 | 163,541 | 166,460 | 169,349 | 171,775 | 173,939 | 175,891 | 178,080 | 179,912 |
| Labor force |  |  |  |  |  |  |  |  |  |
| Total (number). | 100,665 | 103,882 | 106,559 | 108,544 | 110,315 | 111,872 | 113,226 | 115,241 | 117,167 |
| Percent of population. | 62.6 | 63.5 | 64.0 | 64.1 | 64.2 | 64.3 | 64.4 | 64.7 | 65.1 |
| Employed |  |  |  |  |  |  |  |  |  |
| Total (number) | 93,673 | 97,679 | 100,421 | 100,907 | 102,042 | 101,194 | 102,510 | 106,702 | 108,856 |
| Percent of population ................................ | 58.3 | 59.7 | 60.3 | 59.6 | 59.4 | 58.2 | 58.3 | 59.9 | 60.5 |
| Resident Armed Forces | 1,656 | 1,631 | 1,597 | 1,604 | 1,645 | 1,668 | 1,676 | 1,697 | 1,706 |
| Civilian |  |  |  |  |  |  |  |  |  |
| Total | 92,017 | 96,048 | 98,824 | 99,303 | 100,397 | 99,526 | 100,834 | 105,005 | 107,150 |
| Agriculture | 3,283 | 3,387 | 3,347 | 3,364 | 3,368 | 3,401 | 3,383 | 3,321 | 3,179 |
| Nonagricultural industries ..................... | 88,734 | 92,661 | 95,477 | 95,938 | 97,030 | 96,125 | 97,450 | 101,685 | 103,971 |
| Unemployed |  |  |  |  |  |  |  |  |  |
| Total (number) .......................................... | 6,991 | 6,202 | 6,137 | 7,637 | 8,273 | 10,678 | 10,717 | 8,539 | 8,312 |
| Percent of labor force ............................... | 6.9 | 6.0 | 5.8 | 7.0 | 7.5 | 9.5 | 9.5 | 7.4 | 7.1 |
| Not in labor force (number) ................................ | 60,025 | 59,659 | 59,900 | 60,806 | 61,460 | 62,067 | 62,665 | 62,839 | 62,744 |

## 20. Annual data: Employment levels by industry

(Numbers in thousands)

| Industry | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total employment | 82,471 | 86,697 | 89,823 | 90,406 | 91,156 | 89,566 | 90,200 | 94,496 | 97,614 |
| Private sector. | 67,344 | 71,026 | 73,876 | 74,166 | 75,126 | 73,729 | 74,330 | 78,472 | 81,199 |
| Goods-producing | 24,346 | 25,585 | 26,461 | 25,658 | 25,497 | 23,813 | 23,334 | 24,727 | 24,930 |
| Mining ..... | 813 | 851 | 958 | 1,027 | 1,139 | 1,128 | 952 | 966 | 930 |
| Construction | 3,851 | 4,229 | 4,463 | 4,346 | 4,188 | 3,905 | 3,948 | 4,383 | 4,687 |
| Manufacturing | 19,682 | 20,505 | 21,040 | 20,285 | 20,170 | 18,781 | 18,434 | 19,378 | 19,314 |
| Service-producing | 58,125 | 61,113 | 63,363 | 64,748 | 65,659 | 65,753 | 66,866 | 69,769 | 72,684 |
| Transportation and public utilities | 4,713 | 4,923 | 5,136 | 5,146 | 5,165 | 5,082 | 4,954 | 5,159 | 5,242 |
| Wholesale trade | 4,708 | 4,969 | 5,204 | 5,275 | 5,358 | 5,278 | 5,268 | 5,555 | 5,740 |
| Retail trade | 13,808 | 14,573 | 14,989 | 15,035 | 15,189 | 15,179 | 15,613 | 16,545 | 17,360 |
| Finance, insurance, and real estate .............................. | 4,467 | 4,724 | 4,975 | 5,160 | 5,298 | 5,341 | 5,468 | 5,689 | 5,953 |
| Services ..................................................................... | 15,303 | 16,252 | 17,112 | 17,890 | 18,619 | 19,036 | 19,694 | 20,797 | 21,974 |
| Government | 15,127 | 15,672 | 15,947 | 16,241 | 16,031 | 15,837 | 15,869 | 16,024 | 16,415 |
| Federal | 2,727 | 2,753 | 2,773 | 2,866 | 2,772 | 2,739 | 2,774 | 2,807 | 2,875 |
| State | 3,377 | 3,474 | 3,541 | 3,610 | 3,640 | 3,640 | 3,662 | 3,734 | 3,848 |
| Local | 9,023 | 9,446 | 9,633 | 9,765 | 9,619 | 9,458 | 9,434 | 9,482 | 9,692 |

[^32]recent benchmark revision.
21. Annual data: Average hours and earnings of production or nonsupervisory workers on nonagricultural payrolls, by industry

| Industry | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Private sector |  |  |  |  |  |  |  |  |  |
| Average weekly hours | 36.0 | 35.8 | 35.7 | 35.3 | 35.2 | 34.8 | 35.0 | 35.2 | 34.9 |
| Average hourly earnings (in dollars) | 5.25 | 5.69 | 6.16 | 6.66 | 7.25 | 7.68 | 8.02 | 8.32 | 8.57 |
| Average weekly earnings (in dollars) .................................. | 189.00 | 203.70 | 219.91 | 235.10 | 255.20 | 267.26 | 280.70 | 292.86 | 299.09 |
| Mining |  |  |  |  |  |  |  |  |  |
| Average weekly hours | 43.4 | 43.4 | 43.0 | 43.3 | 43.7 | 42.7 | 42.5 | 43.3 | 43.4 |
| Average hourly earnings (in dollars) | 6.94 | 7.67 | 8.49 | 9.17 | 10.04 | 10.77 | 11.28 | 11.63 | 11.98 |
| Average weekly earnings (in dollars) ............................. | 301.20 | 332.88 | 365.07 | 397.06 | 438.75 | 459.88 | 479.40 | 503.58 | 519.93 |
| Construction |  |  |  |  |  |  |  |  |  |
| Average weekly hours | 36.5 | 36.8 | 37.0 | 37.0 | 36.9 | 36.7 | 37.1 | 37.8 | 37.7 |
| Average hourly earnings (in dollars) | 8.10 | 8.66 | 9.27 | 9.94 | 10.82 | 11.63 | 11.94 | 12.13 | 12.31 |
| Average weekly earnings (in dollars) ... | 295.65 | 318.69 | 342.99 | 367.78 | 399.26 | 426.82 | 442.97 | 458.51 | 464.09 |
| Manufacturing |  |  |  |  |  |  |  |  |  |
| Average weekly hours | 40.3 | 40.4 | 40.2 | 39.7 | 39.8 | 38.9 | 40.1 | 40.7 | 40.5 |
| Average hourly earnings (in dollars) ................................ | 5.68 | 6.17 | 6.70 | 7.27 | 7.99 | 8.49 | 8.83 | 9.19 | 9.53 |
| Average weekly earnings (in dollars) | 228.90 | 249.27 | 269.34 | 288.62 | 318.00 | 330.26 | 354.08 | 374.03 | 385.97 |
| Transportation and public utilities |  |  |  |  |  |  |  |  |  |
| Average weekly hours .......... | 39.9 | 40.0 | 39.9 | 39.6 | 39.4 | 39.0 | 39.0 | 39.4 | 39.5 |
| Average hourly earnings (in dollars) .............................. | 6.99 | 7.57 | 8.16 | 8.87 | 9.70 | 10.32 | 10.79 | 11.12 | 11.40 |
| Average weekly earnings (in dollars) ............................... | 278.90 | 302.80 | 325.58 | 351.25 | 382.18 | 402.48 | 420.81 | 438.13 | 450.30 |
| Wholesale trade |  |  |  |  |  |  |  |  |  |
| Average weekly hours | 38.8 | 38.8 | 38.8 | 38.5 | 38.5 | 38.3 | 38.5 | 38.5 | 38.4 |
| Average hourly earnings (in dollars) | 5.39 | 5.88 | 6.39 | 6.96 | 7.56 | 8.09 | 8.55 | 8.89 | 9.16 |
| Average weekly earnings (in dollars) | 209.13 | 228.14 | 247.93 | 267.96 | 291.06 | 309.85 | 329.18 | 342.27 | 351.74 |
| Retail trade |  |  |  |  |  |  |  |  |  |
| Average weekly hours | 31.6 | 31.0 | 30.6 | 30.2 | 30.1 | 29.9 | 29.8 | 29.8 | 29.4 |
| Average hourly earnings (in dollars) ................................ | 3.85 | 4.20 | 4.53 | 4.88 | 5.25 | 5.48 | 5.74 | 5.85 | 5.94 |
| Average weekly earnings (in dollars) | 121.66 | 130.20 | 138.62 | 147.38 | 158.03 | 163.85 | 171.05 | 174.33 | 174.64 |
| Finance, insurance, and real estate |  |  |  |  |  |  |  |  |  |
| Average weekly hours .... | 36.4 | 36.4 | 36.2 | 36.2 | 36.3 | 36.2 | 36.2 | 36.5 | 36.4 |
| Average hourly earnings (in dollars) | 4.54 | 4.89 | 5.27 | 5.79 | 6.31 | 6.78 | 7.29 | 7.63 | 7.94 |
| Average weekly earnings (in dollars) | 165.26 | 178.00 | 190.77 | 209.60 | 229.05 | 245.44 | 263.90 | 278.50 | 289.02 |
| Services |  |  |  |  |  |  |  |  |  |
| Average weekly hours | 33.0 | 32.8 | 32.7 | 32.6 | 32.6 | 32.6 | 32.7 | 32.6 | 32.5 |
| Average hourly earnings (in dollars) | 4.65 | 4.99 | 5.36 | 5.85 | 6.41 | 6.92 | 7.31 | 7.59 | 7.89 |
| Average weekly earnings (in dollars) | 153.45 | 163.67 | 175.27 | 190.71 | 208.97 | 225.59 | 239.04 | 247.43 | 256.43 |

22. Employment Cost Index, compensation,' by occupation and industry group

| Series | 1984 |  |  | 1985 |  |  |  | 1986 |  | Percent change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | 3 months ended | 12 months ended |
|  |  |  |  |  |  |  |  |  |  | June 1986 |  |
| Civilian workers ${ }^{2}$ | 120.8 | 122.4 | 123.9 | 125.5 | 126.4 | 128.4 | 129.2 | 130.6 | 131.5 | 0.7 | 4.0 |
| Workers, by occupational group: |  |  |  |  |  |  |  |  |  |  |  |
| White-collar workers ........................................................ | 122.1 | 124.0 | 125.5 | 127.3 | 128.3 | 130.7 | 131.6 | 133.1 | 134.2 | . 8 | 4.6 |
| Blue-collar workers ........................................................................................... | 118.6 | 119.6 | 120.9 | 122.2 | 123.1 | 124.4 | 124.9 | 126.2 | 126.8 | . 5 | 3.0 |
| Service occupations ......................................................... | 122.1 | 124.6 | 126.8 | 127.8 | 128.0 | 130.9 | 131.8 | 133.1 | 133.7 | . 5 | 4.5 |
| Workers, by industry division: |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturing .................................................................. | 119.1 | 120.4 | 122.0 | 123.9 | 124.6 | 125.5 | 126.0 | 127.7 | 128.7 | . 8 | 3.3 |
| Nonmanufacturing ........................................................... | 121.6 | 123.3 | 124.8 | 126.2 | 127.2 | 129.7 | 130.6 | 131.9 | 132.8 | . 7 | 4.4 |
| Services | 125.5 | 128.8 | 130.9 | 131.9 | 132.6 | 136.4 | 137.1 | 138.8 | 139.4 | . 4 | 5.1 5.9 |
| Public administration ${ }^{3}$...................................................................................................... | 123.7 | 126.9 | 128.6 | 130.1 | 130.3 | 134.2 | 134.8 | 136.8 | 138.0 | . 9 | 5.9 |
| Private industry workers .................................................. | 120.1 | 121.1 | 122.7 | 124.2 | 125.2 | 126.8 | 127.5 | 128.9 | 129.9 | . 8 | 3.8 |
| Workers, by occupational group: |  |  |  |  |  |  |  |  |  |  |  |
| White-collar workers ......................................................................................................... | 121.4 118.4 | 122.4 119.3 | 123.9 | 121.9 | 122.8 | 124.0 | 124.4 | 125.7 | 126.3 | . 5 | 2.9 |
| Service occupations ................................................................................................ | 121.2 | 123.2 | 125.7 | 126.3 | 126.5 | 128.8 | 129.5 | 130.9 | 131.1 | . 2 | 3.6 |
| Workers, by industry division: |  |  |  |  |  |  |  |  |  | 8 | 3.3 |
| Manufacturing ................................................................ | 119.1 | 120.4 | 122.0 | 123.9 124.4 | 124.6 | 125.5 127.6 | 126.0 | 127.7 | 138.6 | . 8 | 4.0 |
| Nonmanufacturing ........................................................ | 120.7 | 121.6 | 123.1 | 124.4 | 125.6 | 127.6 | 128.4 | 129.7 | 130.6 | . 7 | 4.0 |
| State and local government workers ............................. | 124.4 | 128.8 | 130.1 | 131.7 | 132.0 | 136.5 | 137.5 | 138.9 | 139.7 | . 6 | 5.8 |
| Workers, by occupational group: |  |  |  |  |  |  |  |  |  |  |  |
| White-collar workers ..................................................... | 125.0 | 129.7 | 131.1 | 132.5 | 132.9 | 137.6 | 138.6 | 140.0 | 140.5 | . 4 | 5.7 |
| Blue-collar workers ........................................................ | 122.3 | 125.0 | 125.9 | 128.1 | 128.5 | 131.9 | 132.7 | 134.7 | 136.3 | 1.2 | 6.1 |
| Workers, by industry division: |  |  |  |  |  |  |  |  |  |  |  |
| Services ........ | 125.0 | 129.9 | 131.3 | 132.8 | 133.2 | 137.9 | 139.1 | 140.4 | 140.8 | . 1 | 5.7 |
| Schools ..................................................................... | 124.7 | 130.6 | 132.0 | 133.4 | 133.7 | 139.1 | 140.3 | 141.5 | 141.7 | . 1 | 6.0 |
| Elementary and secondary ....................................... | 125.7 | 132.1 | 133.5 | 134.4 | 134.6 | 140.9 | 142.0 | 143.0 | 143.2 | . 1 | 6.4 |
| Hospitals and other services ${ }^{4}$..................................... | 125.7 | 127.9 | 129.2 | 131.1 | 131.5 | 134.1 | 135.2 | 136.8 | 137.9 | . 8 | 4.9 5.9 |
| Public administration ${ }^{3}$..................................................... | 123.7 | 126.9 | 128.6 | 130.1 | 130.3 | 134.2 | 134.8 | 136.8 | 138.0 | . 9 | 5.9 |

1 Cost (cents-per-hour worked) measured in the Employment Cost Index consists of wages, salaries, and employer cost of employee benefits.
${ }_{2}$ Consist of private industry workers (excluding farm and household workers)
and State and local government (excluding Federal Government) workers. ${ }_{3}$ Consists of legislative, judicial, administrative, and regulatory activities 4 Includes, for example, library, social, and health services.
23. Employment Cost Index, wages and salaries, by occupation and industry group

| Series | 1984 |  |  | 1985 |  |  |  | 1986 |  | Percent change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | ended | 12 months ended |
|  |  |  |  |  |  |  |  |  |  | June 1986 |  |
| Civilian workers ' | 118.8 | 120.3 | 121.7 | 123.1 | 124.2 | 126.3 | 127.0 | 128.3 | 129.3 | 0.8 | 4.1 |
| Workers, by occupational group: |  |  |  |  |  |  |  |  |  |  |  |
| White-collar workers ................ | 120.4 | 122.2 | 123.5 | 125.2 | 126.4 | 128.8 | 129.8 | 131.2 | 132.4 | . 9 | 4.7 |
| Blue-collar workers .......................................................... | 116.1 | 117.0 | 118.2 | 119.3 | 120.5 | 122.0 | 122.3 | 123.4 | 124.1 | . 6 | 3.0 |
| Service occupations ........................................................ | 119.8 | 122.3 | 124.3 | 124.8 | 125.3 | 128.0 | 128.6 | 129.8 | 130.0 | . 2 | 3.8 |
| Workers, by industry division |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturing .................... | 116.8 | 118.0 | 119.5 | 121.0 | 122.3 | 123.2 | 123.8 | 125.3 | 126.5 | 1.0 | 3.4 |
| Nonmanufacturing .......................................................... | 119.7 | 121.3 | 122.6 | 123.9 | 125.0 | 127.6 | 128.4 | 129.6 | 130.4 | . 6 | 4.3 |
| Services | 123.8 | 127.2 | 128.9 | 129.7 | 130.5 | 134.2 | 134.8 | 136.4 | 137.0 | . 4 | 5.0 |
| Public administration ${ }^{2}$................................................... | 121.3 | 124.4 | 125.7 | 127.0 | 127.2 | 131.4 | 132.0 | 133.8 | 134.6 | . 6 | 5.8 |
| Private industry workers ................................................ | 118.2 | 119.2 | 120.6 | 122.0 | 123.3 | 124.9 | 125.6 | 126.8 | 127.9 | . 9 | 3.7 |
| Workers, by occupational group: |  |  |  |  |  |  |  |  |  |  |  |
| White-collar workers | 119.9 | 120.9 | 122.3 | 124.0 | 125.5 | 127.3 | 128.3 | 129.6 | 131.1 | 1.2 | 4.5 |
| Professional specialty and technical occupations Executive, administrative, and managerial | 123.8 | 125.2 | 127.3 | 127.7 | 128.7 | 131.2 | 131.5 | 132.7 | 134.0 | 1.0 | 4.1 |
| occupations ......................................................................... | 119.2 | 121.0 | 122.2 | 123.8 | 126.5 | 127.7 | 128.4 | 130.5 | 132.1 | 1.2 | 4.4 |
| Sales occupations .................................................. | 111.9 | 110.5 | 111.6 | 116.3 | 117.4 | 119.3 | 122.5 | 122.4 | 124.3 | 1.6 | 5.9 |
| Administrative support occupations, including | 120.7 | 122.0 | 122.9 | 124.7 | 125.6 | 127.1 | 122.5 | 129.6 | 130.8 | 1.6 | 5.9 |
| Blue-collar workers | 115.9 | 116.7 | 118.0 | 119.1 | 120.3 | 121.7 | 122.0 | 123.1 | 123.7 | . 5 | 2.8 |
| Precision production, craft, and repair |  |  |  |  |  |  |  |  |  |  |  |
| occupations | 117.3 | 118.0 | 119.4 | 120.8 | 122.0 | 123.7 | 123.8 | 125.3 | 125.7 | . 3 | 3.0 |
| Machine operators, assemblers, and inspectors ........ | 115.8 | 116.6 | 117.9 | 118.9 | 120.1 | 121.1 | 121.6 | 122.6 | 123.6 | . 8 | 2.9 |
| Transportation and material moving occupations $\qquad$ Handlers, equipment cleaners, helpers, and | 112.7 | 113.4 | 114.0 | 114.5 | 115.7 | 117.7 | 117.8 | 118.0 | 118.9 | . 8 | 2.8 |
| laborers ............................................................................. | 114.1 | 114.7 | 115.9 | 116.7 | 118.5 | 118.6 | 119.8 | 120.0 | 120.3 | . 3 | 1.5 |
| Service occupations ................................................... | 119.3 | 121.2 | 123.7 | 123.8 | 124.4 | 126.3 | 126.6 | 128.0 | 128.0 | . 0 | 2.9 |
| Workers, by industry division: |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturing | 116.8 | 118.0 | 119.5 | 121.0 | 122.3 | 123.2 | 123.8 | 125.3 | 126.5 | 1.0 | 3.4 |
| Durables ..... | 116.6 | 117.7 | 119.1 | 120.6 | 122.0 | 122.7 | 123.4 | 124.8 | 125.8 | . 8 | 3.1 |
| Nondurables ............................................................ | 117.1 | 118.6 | 120.2 | 121.6 | 122.6 | 124.0 | 124.6 | 126.1 | 127.9 | 1.4 | 4.3 |
| Nonmanufacturing | 119.0 | 119.9 | 121.2 | 122.6 | 123.9 | 125.9 | 126.6 | 127.7 | 128.7 | . 8 | 3.9 |
| Construction | 114.0 | 114.3 | 114.4 | 115.5 | 116.6 | 117.3 | 117.9 | 118.3 | 119.8 | 1.3 | 2.7 |
| Transportation and public utilities | 119.3 | 119.9 | 120.7 | 121.7 | 122.8 | 124.8 | 125.2 | 126.3 | 126.6 | . 2 | 3.1 |
| Wholesale and retail trade | 116.0 | 116.5 | 118.1 | 118.8 | 121.1 | 122.7 | 123.7 | 124.5 | 125.8 | 1.0 | 3.9 |
| Wholesale trade | 120.0 | 120.7 | 122.9 | 123.7 | 126.8 | 127.7 | 128.3 | 129.7 | 131.2 | 1.2 | 3.5 |
| Retail trade .......... | 114.4 | 114.9 | 116.2 | '116.9 | 118.9 | 120.8 | 121.9 | 122.5 | 123.7 | 1.0 | 4.0 |
| Finance, insurance, and real estate | 116.9 | 115.3 | 115.8 | 122.0 | 121.7 | 124.1 | 126.5 | 126.6 | 128.0 | 1.1 | 5.2 |
| Services ........................................ | 124.7 | 127.1 | 129.5 | 129.9 | 131.0 | 133.9 | 134.1 | 136.2 | 136.9 | . 5 | 4.5 |
| State and local government workers | 122.0 | 126.1 | 127.1 | 128.4 | 128.7 | 133.2 | 134.2 | 135.5 | 136.0 | . 4 | 5.7 |
| Workers, by occupational group |  |  |  |  |  |  |  |  |  |  |  |
| White-collar workers .................................................... | 122.5 | 127.1 | 128.0 | 129.3 | 129.6 | 134.3 | 135.3 | 136.6 | 137.0 | . 3 | 5.7 |
| Blue-collar workers ............. | 119.6 | 121.9 | 122.5 | 124.2 | 124.5 | 127.9 | 128.4 | 130.4 | 131.9 | 1.2 | 5.9 |
| Workers, by industry division |  |  |  |  |  |  |  |  |  |  |  |
| Services | 122.5 | 127.2 | 128.1 | 129.4 | 129.7 | 134.5 | 135.6 | 136.8 | 137.1 | . 2 | 5.7 |
| Schools .............................. | 122.3 | 127.8 | 128.7 | 129.9 | 130.2 | 135.8 | 137.0 | 138.0 | 138.2 | . 1 | 6.1 |
| Elementary and secondary .................................... | 123.0 | 129.3 | 130.2 | 130.8 | 131.1 | 137.5 | 138.5 | 139.4 | 139.4 | . 0 | 6.3 |
| Hospitals and other services ${ }^{3}$.................................. | 123.1 | 125.1 | 125.9 | 127.7 | 128.0 | 130.2 | 130.9 | 132.4 | 133.3 | . 7 | 4.1 |
| Public administration ${ }^{2}$................................................. | 121.3 | 124.4 | 125.7 | 127.0 | 127.2 | 131.4 | 132.0 | 133.8 | 134.6 | . 6 | 5.8 |

${ }^{1}$ Consists of private industry workers (excluding farm and household workers) and State and local government (excluding Federal Government) workers.
${ }^{2}$ Consists of legislative, judicial, administrative, and regulatory activities.
3 Includes, for example, library, social and health services.
24. Employment Cost Index, private nonfarm workers, by bargaining status, region, and area size
(June $1981=100$ )

| Series | 1984 |  |  | 1985 |  |  |  | 1986 |  | Percent change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June |  | 12 months ended |
|  |  |  |  |  |  |  |  |  |  | June 1986 |  |
| COMPENSATION |  |  |  |  |  |  |  |  |  |  |  |
| Workers, by bargaining status ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Union .............................................................................. | 121.7 | 122.6 | 123.9 | 124.8 | 125.5 | 126.5 | 127.1 | 128.4 | 128.7 | 0.2 | 2.5 |
| Manufacturing ............................................................... | 120.5 | 121.6 | 123.2 | 124.2 | 124.2 | 125.0 | 125.5 | 127.0 | 126.9 | -. 1 | 2.2 |
| Nonmanufacturing .......................................................... | 122.8 | 123.6 | 124.5 | 125.3 | 126.6 | 127.8 | 128.6 | 129.7 | 130.4 | . 5 | 3.0 |
| Nonunion | 119.2 | 120.3 | 121.9 | 123.8 | 125.0 | 126.8 | 127.5 | 129.0 | 130.2 | . 9 | 4.2 |
| Manufacturing | 117.9 | 119.3 | 120.8 | 123.6 | 124.8 | 125.7 | 126.3 | 128.1 | 129.7 | 1.2 | 3.9 |
| Nonmanufacturing ........................................................... | 119.8 | 120.7 | 122.4 | 123.9 | 125.1 | 127.3 | 128.1 | 129.5 | 130.4 | . 7 | 4.2 |
| Workers, by region ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Northeast ................. | 120.7 | 122.4 | 123.8 | 125.1 | 126.4 | 128.8 | 129.9 | 131.6 | 133.3 | 1.3 | 5.5 |
| South | 120.7 | 120.7 | 122.2 | 124.2 | 125.2 | 126.5 | 127.2 | 128.7 | 129.6 | . 7 | 3.5 |
| Midwest (formerly North Central) | 117.9 | 119.7 | 120.8 | 122.0 | 122.7 | 124.2 | 124.6 | 125.9 | 126.2 | . 2 | 2.9 |
| West .......................................... | 122.2 | 122.5 | 124.9 | 126.8 | 127.9 | 129.1 | 129.8 | 130.8 | 131.6 | . 6 | 2.9 |
| Workers, by area size ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Metropolitan areas ....... | 120.6 | 121.5 | 123.2 | 124.7 | 125.7 | 127.3 | 128.1 | 129.5 | 130.5 | . 8 | 3.8 |
| Other areas ............................................................................... | 117.4 | 119.0 | 119.8 | 121.4 | 122.5 | 123.9 | 123.9 | 125.5 | 126.4 | . 7 | 3.2 |
| WAGES AND SALARIES |  |  |  |  |  |  |  |  |  |  |  |
| Workers, by bargaining status ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Union ............................................................ | 119.0 | 119.8 | 120.9 | 121.7 | 123.0 | 124.1 | 124.7 | 125.6 | 126.1 | . 4 | 2.5 |
| Manufacturing ................................................................ | 117.1 | 118.1 | 119.5 | 120.4 | 121.7 | 122.8 | 123.3 | 124.2 | 124.6 | . 3 | 2.4 |
| Nonmanufacturing .......................................................... | 120.7 | 121.3 | 122.1 | 122.8 | 124.1 | 125.3 | 125.9 | 126.9 | 127.4 | . 4 | 2.7 |
| Nonunion | 117.8 | 118.8 | 120.4 | 122.1 | 123.4 | 125.2 | 125.9 | 127.3 | 128.5 | . 9 | 4.1 |
| Manufacturing ................................................................. | 116.5 | 117.9 | 119.5 | 121.5 | 122.8 | 123.7 | 124.4 | 126.1 | 127.7 | 1.3 | 4.0 |
| Nonmanufacturing .............................................................. | 118.3 | 119.2 | 120.7 | 122.3 | 123.6 | 125.9 | 126.6 | 127.8 | 128.9 | . 9 | 4.3 |
| Workers, by region ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Northeast .......... | 118.9 | 120.5 | 121.9 | 123.0 | 124.6 | 126.8 | 128.1 | 129.2 | 131.3 | 1.6 | 5.4 |
| South ................................................................................ | 119.0 | 119.0 | 120.2 | 122.3 | 123.4 | 124.8 | 125.4 | 126.8 | 127.8 | . 8 | 3.6 |
| Midwest (formerly North Central) ........................................ | 116.0 | 117.8 | 118.7 | 119.6 | 121.1 | 122.5 | 122.9 | 124.2 | 124.4 | 2 | 2.7 |
| West ................................................................................. | 119.6 | 120.0 | 122.5 | 124.0 | 125.1 | 126.6 | 127.1 | 128.1 | 128.9 | . 6 | 3.0 |
| Workers, by area size ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Metropolitan areas ............................................................. | 118.6 | 119.5 | 121.0 | 122.4 | 123.8 | 125.5 | 126.3 | 127.4 | 128.5 | . 9 | 3.8 |
| Other areas ........... | 116.0 | 117.5 | 118.3 | 119.6 | 120.6 | 121.9 | 122.0 | 123.6 | 124.5 | 7 | 3.2 |
| 1 The indexes are calculated differently from those for the occupation and industry groups. For a detailed description of the index calculation, see the <br> Monthly Labor Review Technical Note, "Estimation procedures for the Employment Cost Index," May 1982. |  |  |  |  |  |  |  |  |  |  |  |

25. Specified compensation and wage adjustments from contract settlements, and effective wage adjustments, private industry collective bargaining situations covering $\mathbf{1 , 0 0 0}$ workers or more (in percent)

| Measure | Annual average |  | Quarterly average |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | 1984 |  | 1985 |  |  |  | 1986 |  |
|  |  |  | III | IV | 1 | II | III | IV | 1 | II |
| Specified adjustments: Total compensation ${ }^{1}$ adjustments, ${ }^{2}$ settlements covering 5,000 workers or more: |  |  |  |  |  |  |  |  |  |  |
| First year of contract $\qquad$ <br> Annual rate over life of contract $\qquad$ | $\begin{aligned} & 3.6 \\ & 2.8 \end{aligned}$ | 2.6 2.7 | 2.7 3.1 | $\begin{aligned} & 3.7 \\ & 2.0 \end{aligned}$ | 3.6 2.7 | 3.5 3.4 | 2.0 3.0 | 2.0 1.4 | 0.4 1.3 | $\begin{aligned} & 0.7 \\ & 1.6 \end{aligned}$ |
| Wage adjustments, settlements covering 1,000 workers or more: <br> First year of contract $\qquad$ <br> Annual rate over life of contract $\qquad$ | 2.4 2.4 | 2.3 2.7 | 2.1 2.6 | 2.3 1.5 | 3.3 3.2 | 2.5 2.8 | 2.0 3.1 | 2.1 1.9 | 1.0 1.6 | $\begin{aligned} & 1.3 \\ & 2.0 \end{aligned}$ |
| Effective adjustments: |  |  |  |  |  |  |  |  |  |  |
| Total effective wage adjustment ${ }^{3}$................... | 3.7 | 3.3 | 1.2 | . 7 | . 7 | . 8 | 1.2 | . 5 | . 6 | . 7 |
| From settlements reached in period ............. Deferred from settlements reached in earlier | . 8 | 7 | . 2 | . 3 | . 1 | . 2 | . 2 | . 1 | . 0 | . 2 |
| periods $\qquad$ <br> From cost-of-living-adjustments clauses $\qquad$ | 2.0 9 | 1.8 7 | $\begin{array}{r}.7 \\ \hline\end{array}$ | .2 | ${ }^{6}$ | . 5 | . 5 | . 2 | . 4 | . 6 |

${ }^{1}$ Compensation includes wages, salaries, and employers' cost of employee benefits when contract is negotiated.
${ }_{2}$ Adjustments are the net result of increases, decreases, and no changes in
compensation or wages.
${ }^{3}$ Because of rounding total may not equal sum of parts. = preliminary.
26. Average specified compensation and wage adjustments, major collective bargaining settlements in private industry situations covering $\mathbf{1 , 0 0 0}$ workers or more during $\mathbf{4}$-quarter periods (in percent)

| Measure | Average for four quarters ending-- |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 |  | 1985 |  |  |  | 1986 |  |
|  | III | IV | 1 | II | III | IV | 1 | II |
| Specified total compensation adjustments, settlements covering 5,000 workers or more, all industries: | 4.23.2 | $\begin{aligned} & 3.6 \\ & 2.8 \end{aligned}$ | 3.42.6 | $\begin{aligned} & 3.4 \\ & 2.7 \end{aligned}$ | 3.12.7 | 2.62.7 | 2.32.6 | 1.52.0 |
| First year of contract $\qquad$ <br> Annual rate over life of contract $\qquad$ |  |  |  |  |  |  |  |  |
| Specified wage adjustments, settlements covering 1,000 workers or more: |  |  |  |  |  |  |  |  |
| All industries |  |  |  |  |  |  |  |  |
| First year of contract | 3.2 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.0 | 1.7 |
| Contracts with COLA clauses. | 4.5 | 2.9 | 2.5 | 2.3 | 1.9 | 1.6 | 1.6 | 1.6 |
| Contracts without COLA clauses | 2.3 | 2.1 | 2.4 | 2.4 | 2.7 | 2.7 | 2.2 | 1.7 |
| Annual rate over life of contract ... | 2.8 | 2.4 | 2.3 | 2.4 | 2.5 | 2.7 | 2.5 | 2.3 |
| Contracts with COLA clauses ..... | 2.8 | 1.8 | 1.3 | 1.5 | 1.8 | 2.5 | 2.5 | 2.5 |
| Contracts without COLA clauses | 2.8 | 2.7 | 2.8 | 2.8 | 3.0 | 2.8 | 2.5 | 2.2 |
| Manufacturing |  |  |  |  |  | 2.8 | 2.5 | 2.2 |
| First year of contract ................ | 2.6 | 2.3 | 2.1 | 2.0 | 1.5 | . 8 | . 9 | . 1 |
| Contracts with COLA clauses ..... | 1.5 | 2.1 | 2.0 | 1.9 | 1.5 | . 8 | . 8 | . 7 |
|  | 3.7 2.8 | 2.9 1.5 | 2.5 1.4 | 2.2 | 1.5 | . 9 | . 9 | -. 4 |
| Annual rate over life of contract | 2.8 1.8 | 1.5 1.0 | 1.4 .9 | 1.5 | 1.6 | 1.8 | 1.8 | 1.4 |
| Contracts without COLA clauses | 3.8 | 3.3 | 3.2 | 3.0 | 2.4 | 1.1 | 2.1 1.5 | 2.0 |
| Nonmanufacturing |  |  | 3.2 |  | 2.4 | 1.6 | 1.5 | . 9 |
| First year of contract | 3.3 | 2.5 | 2.6 | 2.7 | 3.2 | 3.3 | 2.8 | 2.7 |
| Contracts with COLA clauses | 5.4 | 5.5 | 5.1 | 4.3 | 4.0 | 3.6 | 3.5 | 3.7 |
| Contracts without COLA clauses. | 2.1 | 2.0 | 2.4 | 2.5 | 3.0 | 3.6 3.3 | 3.7 | 3.6 |
| Annual rate over life of contract ........... | 2.8 | 2.9 | 2.8 | 2.9 | 3.3 | 3.3 | 3.0 | 2.6 2.9 |
| Contracts with COLA clauses . | 3.1 | 4.8 | 4.0 | 3.8 | 3.9 | 3.6 | 3.6 | 2.9 3.3 |
| Contracts without COLA clauses.. | 2.6 | 2.6 | 2.7 | 2.8 | 3.2 | 3.6 3.3 | 3.6 2.9 | 3.8 |
| Construction |  |  |  |  |  |  | 2.9 |  |
| First year of contract. | . 9 | . 5 | . 9 | 1.1 | 1.0 | 1.5 | 1.7 | 2.4 |
| Contracts with COLA clauses . | 4.0 | 4.0 | 4.6 | 9.2 |  |  |  | . 7 |
| Contracts without COLA clauses ... | . 9 | 4 | . 8 | 1.0 | (1) |  |  | 2.5 |
| Annual rate over life of contract ...... | 1.4 | 1.0 | 1.4 | 1.7 | 1.7 | 2.1 | 2.2 | 2.6 |
| Contracts with COLA clauses ............. | 1.4 | 1.4 | 1.7 | 4.6 | (1) | (1) |  | 1.1 |
| Contracts without COLA clauses .......................................................... | 1.4 | 1.0 | 1.4 | 1.7 | (1) | (1) | (1) | 2.6 |

Data do not meet publication standards.

[^33]MONTHLY LABOR REVIEW November 1986 - Current Labor Statistics: Compensation and Industrial Relations Data
27. Average effective wage adjustments, private industry collective bargaining situations covering 1,000 workers or more during 4-quarter periods (in percent)

| Effective wage adjustment | Average for four quarters ending-- |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 |  |  |  | 1986 |  |
|  | IV | 1 | 11 | III | IV | 1 | $11 p$ |
| For all workers: ${ }^{1}$ |  |  |  |  |  |  |  |
| Total ..................................... | 3.7 | 3.6 |  |  |  |  |  |
| From settlements reached in period ............................................ | . 8 | . 7 | . 9 | . 9 | . 7 | . 6 | . 5 |
| Deferred from settlements reached in earlier period | 2.0 | 2.2 | 1.9 | 1.8 | 1.8 | 1.7 | 1.8 |
| From cost-of-living-adjustments clauses .............................................. | . 9 | . 7 | . 7 | . 8 | . 7 | . 8 | . 7 |
| For workers receiving changes: |  |  |  |  |  |  |  |
| Total ............................................. |  | 4.5 | 4.2 |  |  |  |  |
| From settlements reached in period ........................................... | 3.0 | 2.9 | 4.2 2.9 | 2.8 2.8 | 3.4 | 4.0 2.9 |  |
| Deferred from settlements reached in earlier period ...................... | 4.0 | 4.2 | 3.9 | 3.7 | 3.7 | 3.5 | 3.4 |
| From cost-of-living-adjustments clauses ........................................ | 2.7 | 2.3 | 2.3 | 2.8 | 2.2 | 2.5 | 2.1 |

${ }^{1}$ Because of rounding total may not equal sum of parts.
$p=$ preliminary.
28. Specified compensation and wage adjustments from contract settlements, and effective wage adjustments, State and local government collective bargaining situations covering 1,000 workers or more (in percent)

| Measure | Annual average |  | First 6 months $1986^{\circ}$ |
| :---: | :---: | :---: | :---: |
|  | 1984 | 1985 |  |
| Specified adjustments: <br> Total compensation ${ }^{1}$ adjustments, ${ }^{2}$ settlements covering 5,000 workers or more: |  |  |  |
| First year of contract $\qquad$ <br> Annual rate over life of contract $\qquad$ | 5.2 5.4 | 4.2 5.1 | $\begin{aligned} & 6.7 \\ & 6.4 \end{aligned}$ |
| Wage adjustments, settlements covering 1,000 workers or more: First year of contract $\qquad$ | 4.8 | 4.6 | 6.1 |
| Annual rate over life of contract ...... | 5.1 | 5.4 | 6.0 |
| Effective adjustments: |  |  |  |
| Total effective wage adjustment ${ }^{3}$. | 5.0 | 5.7 | 1.8 |
| From settlements reached in period.... | 1.9 | 4.1 | 0.6 |
| Deferred from settlements reached in earlier periods | 3.1 | 1.6 | 1.2 |
| From cost-of-living-adjustment clauses ............ | $\left({ }^{4}\right)$ | $\left.{ }^{4}\right)$ | ${ }^{4}$ ) |

${ }^{1}$ Compensation includes wages, salaries, and employers' cost of employee
benefits when contract is negotiated.
${ }_{2}$ Adjustments are the net result of increases, decreases, and no changes in
${ }^{3}$ Because of rounding total may not equal sum of parts.
${ }^{4}$ Less than 0.05 percent.
$\mathrm{p}=$ preliminary
29. Work stoppages involving $\mathbf{1 , 0 0 0}$ workers or more

30. Consumer Price Index for All Urban Consumers: U.S. city average, by expenditure category and commodity or service group; and CPI for Urban Wage Earners and Clerical Workers, all items
(1967 $=100$, unless otherwise indicated)

| Series | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All items | 311.1 | 322.2 | 324.5 | 325.5 | 326.6 | 327.4 |  |  |  |  |  |  |  |  |  |
| All items (1957-59 = 100) | 361.9 | 374.7 | 377.4 | 378.5 | 379.9 | 380.8 | 381.9 | 380.8 | 379.1 | 378.3 | 379.5 | 381.4 | 381.4 | $382.1$ | $384.1$ |
| Food and beverages | 295.1 | 302.0 | 302.1 | 302.5 | 303.6 | 305.6 | 307.9 | 307.7 | 307.8 | 308.5 | 309.4 | 309.5 | 312.2 | 314.6 | 315.1 |
| Food | 302.9 | 309.8 | 309.9 | 309.8 | 311.0 | 313.2 | 315.6 | 315.3 | 315.4 | 316.1 | 317.0 | 317.1 | 320.1 | 322.7 | 323.2 |
| Food at home | 292.6 | 296.8 | 295.6 | 295.3 | 296.6 | 299.3 | 302.5 | 301.5 | 301.2 | 301.5 | 302.1 | 301.6 | 305.5 | 308.9 | 309.0 |
| Cereals and bakery products. | 305.3 | 317.0 | 319.2 | 318.9 | 319.9 | 321.9 | 322.0 | 322.5 | 322.7 | 322.5 | 323.8 | 326.1 | 326.3 | 328.2 | 328.5 |
| Meats, poultry, fish, and eggs | 266.6 | 263.4 | 260.6 | 261.1 | 266.1 | 269.9 | 271.5 | 268.4 | 267.7 | 264.2 | 263.4 | 265.1 | 274.9 | 283.0 | 284.7 |
| Dairy products | 253.2 | 258.0 | 258.0 | 257.1 | 257.1 | 256.9 | 257.2 | 257.3 | 256.8 | 256.8 | 257.1 | 257.2 | 258.4 | 258.3 | 258.5 |
| Fruits and vegetables | 317.4 | 325.7 | 319.9 | 317.1 | 314.3 | 323.9 | 334.4 | 320.7 | 319.2 | 329.5 | 336.5 | 327.8 | 330.3 | 332.1 | 329.1 |
| Other foods at home | 352.2 | 361.1 | 362.6 | 363.0 | 362.2 | 361.3 | 365.7 | 375.1 | 375.7 | 376.1 | 374.6 | 374.1 | 373.7 | 374.0 | 373.7 |
| Sugar and sweets | 389.1 | 398.8 | 401.1 | 402.6 | 401.4 | 402.2 | 405.1 | 408.6 | 408.4 | 411.4 | 411.2 | 411.5 | 412.4 | 413.1 | 413.7 |
| Fats and oils ............. | 288.0 | 294.4 | 294.8 | 291.2 | 292.1 | 290.3 | 292.1 | 291.4 | 290.2 | 288.5 | 287.2 | 287.0 | 287.3 | 287.8 | 285.6 |
| Nonalcoholic beverage | 443.0 | 451.7 | 452.8 | 454.1 | 451.7 | 448.8 | 459.7 | 485.3 | 488.0 | 487.4 | 481.9 | 480.0 | 478.3 | 476.9 | 475.7 |
| Other prepared foods. | 284.9 | 294.2 | 296.3 | 296.8 | 296.8 | 297.3 | 298.0 | 299.5 | 299.3 | 300.2 | 301.4 | 301.7 | 301.8 | 303.2 | 303.8 |
| Food away from home | 333.4 | 346.6 | 349.9 | 350.3 | 351.3 | 352.1 | 353.1 | 354.2 | 355.5 | 357.0 | 358.8 | 360.2 | 360.8 | 361.8 | 363.3 |
| Alcoholic beverages ....... | 222.1 | 229.5 | 229.3 | 236.4 | 236.2 | 236.2 | 237.5 | 238.3 | 238.8 | 239.5 | 239.4 | 240.1 | 240.4 | 240.1 | 240.4 |
| Housing | 336.5 | 349.9 | 353.8 | 354.4 | 355.0 | 355.8 | 356.8 | 356.5 | 357.0 | 358.0 | 358.5 | 361.2 | 361.5 | 362.4 | 363.7 |
| Shelter | 361.7 | 382.0 | 386.9 | 389.1 | 391.3 | 392.3 | 393.8 | 394.8 | 397.0 | 400.1 | 400.9 | 401.6 | 403.5 | 405.2 | 407.6 |
| Renters' costs ( $12 / 82=100$ ) | 108.6 | 115.4 | 117.0 | 117.9 | 118.4 | 118.3 | 118.8 | 119.0 | 119.6 | 120.9 | 121.1 | 121.6 | 122.5 | 122.9 | 123.6 |
| Rent, residential .. | 249.3 | 264.6 | 267.7 | 269.9 | 271.7 | 272.4 | 273.4 | 273.7 | 275.0 | 277.9 | 278.4 | 279.4 | 281.2 | 281.7 | 283.2 |
| Other renters' costs ................. | 373.4 | 398.4 | 410.7 | 412.5 | 408.7 | 398.1 | 401.1 | 404.1 | 405.5 | 410.8 | 411.3 | 415.2 | 420.1 | 425.7 | 429.1 |
| Homeowners' costs $(12 / 82=100) \ldots \ldots . .$. | 107.3 | 113.1 | 114.6 | 115.1 | 115.8 | 116.3 | 116.7 | 117.0 | 117.9 | 118.7 | 118.9 | 119.0 | 119.4 | 119.9 | 120.7 |
| Owners' equivalent rent $(12 / 82=100)$ Household insurance $(12 / 82=100) . .$. | 107.3 | 113.2 | 114.6 | 115.1 | 115.9 | 116.3 | 116.7 | 117.0 | 117.9 | 118.7 | 118.9 | 119.0 | 119.4 | 119.9 | 120.7 |
| Household insurance ( $12 / 82=100$ ) Maintenance and repairs .................. | 107.5 | 112.4 | 113.7 368.7 | 114.6 | 114.5 | 115.0 | 115.7 | 117.4 | 118.0 | 118.3 | 118.8 | 118.9 | 119.9 | 119.9 | 120.2 |
| Maintenance and repairs | 359.2 409.7 | 368.9 421.1 | 368.7 421.9 | 368.5 422.2 | 372.7 426.4 | 373.7 | 379.1 | 379.6 | 367.5 | 367.6 | 367.1 | 366.6 | 369.2 | 376.4 | 376.2 |
| Maintenance and repair commoditie | 262.7 | 269.6 | 268.6 | 268.0 | 271.5 | 273.3 | 277.1 | 277.8 | 266.1 | 264.5 | 262.9 | 427.4 260.7 | 430.1 | . 2 | 437.0 |
| Fuel and other utilities | 387.3 | 393.6 | 400.5 | 395.6 | 392.1 | 393.3 | 394.6 | 390.0 | 385.5 | 381.8 | 382.5 | 393.8 | 389.4 | 389.5 | 388.3 |
| Fuels | 485.5 | 488.1 | 496.8 | 488.4 | 481.5 | 483.6 | 484.7 | 476.3 | 467.6 | 459.6 | 460.6 | 477.0 | 469.2 | 469.0 | 467.2 |
| Fuel oil, coal, and bottled gas | 641.8 | 619.5 | 601.7 | 615.3 | 641.6 | 657.3 | 650.3 | 591.2 | 549.9 | 518.3 | 496.8 | 486.6 | 459.4 | 447.3 | 453.5 |
| Gas (piped) and electricity .. | 445.2 | 452.7 | 466.5 | 453.9 | 440.5 | 439.9 | 442.6 | 444.5 | 442.3 | 439.2 | 444.6 | 466.0 | 462.3 | 464.5 | 461.1 |
| Other utilities and public services ... | 230.2 | 240.7 | 244.6 | 244.7 | 245.9 | 245.8 | 247.3 | 247.9 | 249.0 | 251.3 | 251.5 | 255.2 | 255.6 | 255.9 | 255.6 |
| Household furnishings and operations Housefurnishings | 242.5 | 247.2 | 247.1 | 248.4 | 248.9 | 248.8 | 248.8 | 249.0 | 249.8 | 249.6 | 249.9 | 250.2 | 250.5 | 250.5 | 251.5 |
| Housefurnishings ......... | 199.1 | 200.1 | 199.0 | 200.3 | 200.8 | 200.1 | 199.8 | 199.7 | 201.0 | 200.4 | 200.8 | 200.8 | 201.2 | 200.9 | 202.2 |
| Housekeeping supplies | 303.2 | 313.6 | 313.9 | 315.7 | 316.4 | 317.7 | 318.3 | 318.6 | 317.9 | 318.5 | 318.3 | 319.6 | 319.5 | 319.8 | 320.1 |
| Housekeeping services | 327.5 | 338.9 | 341.5 | 342.2 | 342.7 | 343.2 | 343.9 | 344.5 | 345.1 | 345.4 | 345.8 | 346.1 | 346.6 | 347.4 | 347.8 |
| Apparel and upkeep | 200.2 | 206.0 | 209.6 | 211.1 | 211.2 | 209.0 | 205.0 | 204.1 | 206.3 | 207.3 | 206.4 | 204.5 | 203.2 | 207.0 | 212.1 |
| Apparel commodities | 187.0 | 191.6 | 195.3 | 196.7 | 196.8 | 194.2 | 189.5 | 188.5 | 190.8 | 191.7 | 190.7 | 188.4 | 187.0 | 191.2 | 196.6 |
| Men's and boys' apparel. | 192.4 | 197.9 | 201.5 | 203.2 | 203.6 | 202.0 | 198.6 | 196.8 | 198.3 | 199.7 | 200.2 | 198.1 | 195.8 | 197.8 | 203.2 |
| Women's and girls' apparel | 163.6 | 169.5 | 176.1 | 177.9 | 176.5 | 172.6 | 164.4 | 163.4 | 167.6 | 168.0 | 164.9 | 161.3 | 159.8 | 167.2 | 175.7 |
| Infants' and toddlers' appare | 287.0 | 299.7 | 302.0 | 302.1 | 307.0 | 304.1 | 313.9 | 311.6 | 313.1 | 316.6 | 318.5 | 319.7 | 307.5 | 310.6 | 309.7 |
| Footwear .......................... | 209.5 | 212.1 | 210.9 | 212.3 | 215.5 | 213.1 | 209.1 | 207.9 | 210.1 | 211.4 | 211.5 | 210.0 | 209.1 | 209.6 | 212.0 |
| Other apparel commodities Apparel services ................. | 216.4 | 215.5 | 215.2 | 214.9 | 214.9 | 214.6 | 215.5 | 216.1 | 214.6 | 215.3 | 215.4 | 215.8 | 218.1 | 221.6 | 221.1 |
| Apparel services | 305.0 | 320.9 | 324.1 | 325.7 | 326.3 | 326.9 | 329.8 | 330.7 | 331.5 | 332.9 | 333.6 | 334.3 | 334.6 | 334.7 | 336.7 |
| Transportation | 311.7 | 319.9 | 319.7 | 320.9 | 323.2 | 324.0 | 323.9 | 319.2 | 309.6 | 303.3 | 305.7 | 308.6 | 304.7 | 301.3 | 302.2 |
| Private transportation | 306.6 | 314.2 | 313.6 | 314.7 | 317.0 | 317.8 | 317.3 | 312.2 | 302.1 | 295.3 | 297.8 | 300.8 | 296.5 | 292.8 | 293.7 |
| New vehicles | 208.0 | 214.9 | 214.2 | 215.9 | 218.2 | 219.2 | 219.7 | 220.2 | 220.1 | 221.0 | 222.8 | 224.0 | 224.5 | 224.5 | 224.2 |
| New cars | 208.5 | 215.2 | 214.5 | 216.2 | 218.4 | 219.4 | 219.9 | 220.4 | 220.3 | 221.2 | 223.0 | 224.2 | 224.7 | 224.7 | 224.5 |
| Used cars | 375.7 | 379.7 | 374.3 | 375.3 | 376.4 | 375.6 | 374.1 | 370.7 | 367.2 | 364.8 | 363.6 | 362.5 | 360.3 | 358.0 | 359.5 |
| Motor fuel | 370.7 | 373.8 | 377.7 | 374.6 | 376.7 | 377.5 | 373.3 | 351.5 | 308.5 | 279.5 | 289.3 | 299.4 | 280.2 | 265.9 | 271.1 |
| Gasoline .................... | 370.2 | 373.3 | 377.4 | 374.2 | 376.1 | 376.8 | 372.5 | 350.8 | 307.7 | 278.6 | 288.7 | 299.1 | 279.8 | 265.3 | 270.6 |
| Maintenance and repair ...... | 341.5 | 351.4 | 353.5 | 355.7 | 355.8 | 357.5 | 357.9 | 358.9 | 359.3 | 360.6 | 361.3 | 362.1 | 363.4 | 364.3 | 365.0 |
| Other private transportation. | 273.3 | 287.6 | 285.8 | 289.6 | 293.9 | 295.2 | 297.7 | 299.2 | 301.5 | 301.6 | 301.3 | 303.0 | 304.5 | 304.5 | 302.3 |
| Other private transportation commodities | 201.5 | 202.6 | 203.4 | 202.8 | 201.6 | 202.1 | 203.4 | 202.9 | 203.6 | 202.2 | 202.4 | 201.5 | 201.6 | 201.8 | 200.3 |
| Other private transportation services | 295.0 | 312.8 | 310.4 | 315.4 | 321.2 | 322.7 | 325.5 | 327.6 | 330.3 | 330.9 | 330.4 | 332.8 | 334.6 | 334.6 | 332.3 |
| Public transportation | 385.2 | 402.8 | 408.0 | 411.5 | 412.8 | 412.9 | 419.6 | 422.2 | 421.2 | 422.2 | 423.7 | 425.4 | 428.0 | 428.0 | 428.5 |
| Medical care | 379.5 | 403.1 | 408.3 | 410.5 | 413.0 | 414.7 | 418.2 | 422.3 | 425.8 | 428.0 | 429.7 | 432.0 | 434.8 | 437.5 | 439.7 |
| Medical care commodities | 239.7 | 256.7 | 260.2 | 261.3 | 262.7 | 262.9 | 264.5 | 267.4 | 269.4 | 271.3 | 272.3 | 273.3 | 275.4 | 276.0 | 276.7 |
| Medical care services | 410.3 | 435.1 | 440.5 | 443.0 | 445.8 | 448.0 | 451.9 | 456.2 | 460.1 | 462.3 | 464.2 | 466.8 | 469.8 | 473.0 | 475.7 |
| Professional services | 346.1 | 367.3 | 371.7 | 373.2 | 375.5 | 377.1 | 378.9 | 381.6 | 385.0 | 386.9 | 388.3 | 390.3 | 391.7 | 393.3 | 396.1 |
| Other medical care services | 488.0 | 517.0 | 523.9 | 527.4 | 530.8 | 533.6 | 540.3 | 546.4 | 550.8 | 553.5 | 555.9 | 559.2 | 564.2 | 569.4 | 571.9 |
| Entertainment | 255.1 | 265.0 | 266.8 | 268.4 | 269.0 | 268.3 | 270.8 | 272.0 | 271.9 | 272.3 | 272.9 | 273.9 | 274.4 | 274.7 | 275.3 |
| Entertainment commodities | 253.3 | 260.6 | 262.5 | 264.0 | 264.0 | 262.5 | 264.7 | 265.2 | 265.0 | 264.8 | 265.3 | 266.1 | 265.8 | 266.1 | 265.9 |
| Entertainment services | 258.3 | 271.8 | 273.3 | 275.2 | 276.6 | 277.1 | 279.9 | 282.1 | 282.2 | 283.5 | 284.2 | 285.5 | 287.0 | 287.3 | 289.2 |
| Other goods and services | 307.7 | 326.6 | 333.3 | 334.9 | 335.3 | 336.5 | 339.1 | 340.3 | 341.1 | 341.8 | 342.1 | 342.6 | 344.9 | 346.4 | 353.3 |
| Tobacco products | 310.0 | 328.5 | 332.8 | 334.4 | 334.7 | 337.4 | 342.7 | 344.7 | 345.6 | 346.5 | 346.5 | 347.1 | 354.3 | 356.2 | 356.8 |
| Personal care. | 271.4 | 281.9 | 284.1 | 285.0 | 285.4 | 286.3 | 288.1 | 289.1 | 290.3 | 290.5 | 290.9 | 291.0 | 291.1 | 292.3 | 292.0 |
| Toilet goods and personal care appliances | 269.6 | 278.5 | 280.6 | 281.4 | 281.1 | 282.5 | 285.3 | 286.0 | 287.3 | 287.7 | 287.9 | 287.0 | 287.1 | 289.1 | 288.2 |
| Personal care services ......... | 274.1 | 286.0 | 288.2 | 289.2 | 290.2 | 290.6 | 291.8 | 293.0 | 294.0 | 294.1 | 294.7 | 295.7 | 295.8 | 296.2 | 296.5 |
| Personal and educational expenses | 365.7 | 397.1 | 412.5 | 414.7 | 415.4 | 415.5 | 416.8 | 417.7 | 417.9 | 418.9 | 419.5 | 420.4 | 421.2 | 422.9 | 445.2 |
| School books and supplies ............ | 322.8 | 350.8 | 362.1 | 364.5 | 364.7 | 364.7 | 371.0 | 373.8 | 374.3 | 374.4 | 374.5 | 375.7 | 375.9 | 376.9 | 389.4 |
| Personal and educational services ......................................... | 375.6 | 407.7 | 423.9 | 426.2 | 426.9 | 427.0 | 427.6 | 428.1 | 428.3 | 429.5 | 430.2 | 431.0 | 431.9 | 433.7 | 457.8 |

See footnotes at end of table.

MONTHLY LABOR REVIEW November 1986 - Current Labor Statistics: Price Data
30. Continued- Consumer Price Index for All Urban Consumers: U.S. city average, by expenditure category and commodity or service group; and CPI for Urban Wage Earners and Clerical Workers, all items
(1967 $=100$, unless otherwise indicated)

| Series | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
|  | 1984 | 1985 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All items | 311.1 | 322.2 | 324.5 | 325.5 | 326.6 | 327.4 | 328.4 | 327.5 | 326.0 | 325.3 | 326.3 | 327.9 | 328.0 | 328.6 | 330.2 |
| Commodities | 280.7 | 286.7 | 287.1 | 287.9 | 289.2 | 289.9 | 290.1 | 287.4 | 283.7 | 281.2 | 282.1 | 282.8 | 281.9 | 281.9 | 283.5 |
| Food and beverages | 295.1 | 302.0 | 302.1 | 302.5 | 303.6 | 305.6 | 307.9 | 307.7 | 307.8 | 308.5 | 309.4 | 309.5 | 312.2 | 314.6 | 315.1 |
| Commodities less food and beverages | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nondurables less food and beverages | 275.7 | 282.1 | 284.6 | 285.3 | 286.8 | 286.8 | 284.9 | 278.6 | 268.9 | 262.0 | 263.3 | 264.7 | 259.8 | 258.1 | 261.5 |
| Apparel commodities ........................... | 187.0 | 191.6 | 195.3 | 196.7 | 196.8 | 194.2 | 189.5 | 188.5 | 190.8 | 191.7 | 190.7 | 188.4 | 187.0 | 191.2 | 196.6 |
| Nondurables less food, beverages, and apparel | 325.8 | 333.3 | 335.3 | 335.6 | 337.8 | 339.1 | 338.7 | 329.5 | 313.6 | 302.6 | 305.2 | 308.4 | 301.7 | 296.9 | 299.5 |
| Durables ............................ | 266.5 | 270.7 | 268.7 | 270.2 | 271.5 | 271.4 | 271.4 | 270.5 | 269.7 | 269.2 | 269.6 | 269.9 | 269.6 | 269.0 | 269.3 |
| Services | 363.0 | 381.5 | 386.5 | 387.7 | 388.7 | 389.5 | 391.7 | 393.3 | 394.9 | 396.8 | 397.9 | 401.0 | 402.3 | 403.7 | 405.5 |
| Rent of shelter | 107.7 | 113.9 | 115.4 | 116.1 | 116.7 | 117.0 | 117.4 | 117.7 | 118.5 | 119.4 | 119.7 | 119.9 | 120.5 | 120.9 | 121.7 |
| Household services less rent of shelter | 108.1 | 111.2 | 113.5 | 112.1 | 110.8 | 110.8 | 111.4 | 111.8 | 111.6 | 111.6 | 112.3 | 115.2 | 114.9 | 115.3 | 114.9 |
| Transportation services | 321.1 | 337.0 | 337.1 | 341.1 | 344.7 | 346.1 | 349.0 | 351.0 | 352.4 | 353.2 | 353.4 | 355.3 | 357.1 | 357.3 | 356.2 |
| Medical care services | 410.3 | 435.1 | 440.5 | 443.0 | 445.8 | 448.0 | 451.9 | 456.2 | 460.1 | 462.3 | 464.2 | 466.8 | 469.8 | 473.0 | 475.7 |
| Other services | 296.0 | 314.1 | 319.7 | 321.4 | 322.5 | 322.9 | 324.8 | 326.1 | 326.6 | 327.6 | 328.2 | 329.2 | 330.1 | 330.8 | 337.9 |
| Special indexes: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All items less food | 311.3 | 323.3 | 326.2 | 327.4 | 328.5 | 328.9 | 329.5 | 328.5 | 326.6 | 325.7 | 326.7 | 328.6 | 328.0 | 328.1 | 330.0 |
| All items less shelter | 295.1 | 303.9 | 305.7 | 306.3 | 307.2 | 307.9 | 308.8 | 307.4 | 305.2 | 303.6 | 304.7 | 306.5 | 306.1 | 306.4 | 307.9 |
| All items less homeowners' costs | 106.3 | 109.7 | 110.4 | 110.7 | 111.1 | 111.3 | 111.6 | 111.2 | 110.5 | 110.1 | 110.4 | 111.1 | 111.0 | 111.2 | 111.7 |
| All items less medical care | 307.3 | 317.7 | 319.9 | 320.8 | 321.9 | 322.6 | 323.4 | 322.2 | 320.5 | 319.7 | 320.6 | 322.2 | 322.1 | 322.6 | 324.2 |
| Commodities less food | 267.0 | 272.5 | 273.1 | 274.4 | 275.7 | 275.7 | 274.7 | 270.9 | 265.2 | 261.2 | 262.1 | 263.0 | 260.2 | 259.0 | 261.1 |
| Nondurables less food | 270.8 | 277.2 | 279.6 | 280.7 | 282.0 | 282.0 | 280.4 | 274.5 | 265.6 | 259.2 | 260.5 | 261.8 | 257.3 | 255.6 | 258.9 |
| Nondurables less food and appa | 311.9 | 319.2 | 321.0 | 322.0 | 324.0 | 325.1 | 324.9 | 316.8 | 302.7 | 292.9 | 295.2 | 298.1 | 292.2 | 287.9 | 290.2 |
| Nondurables ...... | 286.6 | 293.2 | 294.6 | 295.1 | 296.4 | 297.4 | 297.7 | 294.3 | 289.5 | 286.3 | 287.4 | 288.2 | 287.1 | 287.4 | 289.4 |
| Services less rent of shelter | 108.5 | 113.5 | 115.0 | 115.1 | 115.2 | 115.4 | 116.2 | 116.8 | 117.1 | 117.4 | 117.8 | 119.2 | 119.5 | 119.8 | 120.2 |
| Services less medical car | 355.6 | 373.3 | 378.3 | 379.3 | 380.1 | 380.8 | 382.7 | 384.0 | 385.4 | 387.2 | 388.3 | 391.3 | 392.5 | 393.6 | 395.4 |
| Energy | 423.6 | 426.5 | 432.6 | 427.1 | 425.1 | 426.5 | 424.7 | 408.9 | 381.3 | 361.8 | 367.6 | 380.6 | 366.5 | 358.6 | 360.6 |
| All items less energy | 302.9 | 314.8 | 316.8 | 318.4 | 319.8 | 320.5 | 321.8 | 322.3 | 323.3 | 324.4 | 325.0 | 325.5 | 326.9 | 328.3 | 330.0 |
| All items less food and energy | 301.2 | 314.4 | 316.9 | 318.9 | 320.4 | 320.7 | 321.6 | 322.3 | 323.6 | 324.8 | 325.3 | 325.9 | 326.9 | 327.9 | 329.9 |
| Commodities less food and energy | 253.1 | 259.7 | 260.2 | 262.0 | 262.7 | 262.2 | 261.8 | 261.6 | 262.0 | 262.1 | 262.2 | 262.0 | 262.0 | 262.9 | 264.5 |
| Energy commodities | 409.8 | 409.9 | 411.2 | 410.1 | 415.2 | 417.9 | 413.2 | 386.5 | 343.0 | 313.3 | 319.3 | 327.1 | 306.6 | 292.4 | 297.7 |
| Services less energy | 356.4 | 375.9 | 380.2 | 382.5 | 384.8 | 385.8 | 387.9 | 389.4 | 391.5 | 393.8 | 394.5 | 395.9 | 397.7 | 399.0 | 401.4 |
| Purchasing power of the consumer dollar: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $1967=\$ 1.00$...... | 32.1 | 31.0 | 30.8 | 30.7 | 30.6 | 30.5 | 30.5 | 30.5 | 30.7 | 30.7 | 30.6 | 30.5 | 30.5 | 30.4 | 30.3 |
| $1957-59=\$ 1.00$ | 27.6 | 26.7 | 26.5 | 26.4 | 26.3 | 26.3 | 26.2 | 26.3 | 26.4 | 26.4 | 26.4 | 26.2 | 26.2 | 26.2 | 26.0 |
| CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS: <br> All items $\qquad$ | $\begin{aligned} & 307.6 \\ & 357.7 \end{aligned}$ | 318.5 | 320.5 | 321.3 | 322.6375.1 | 323.4376.1 | 324.3377.1 | $\begin{aligned} & 323.2 \\ & 375.8 \end{aligned}$ | $\begin{aligned} & 321.4 \\ & 373.7 \end{aligned}$ | $\begin{aligned} & 320.4 \\ & 372.6 \end{aligned}$ | $\begin{aligned} & 321.4 \\ & 373.7 \end{aligned}$ | $\begin{aligned} & 323.0 \\ & 375.6 \end{aligned}$ | $\begin{aligned} & 322.9 \\ & 375.5 \end{aligned}$ | $\begin{aligned} & 323.4 \\ & 376.1 \end{aligned}$ | $\begin{aligned} & 324.9 \\ & 377.8 \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Food and beverages | 295.2 | 301.8 | 301.8 | 302.2 | 303.4 | 305.4 | 307.7 | 307.5 | 307.6 | 308.3 | 309.0 | 309.3 | 312.0 | 314.5 | 315.0 |
| Food ..................... | 302.7 | 309.3 | 309.3 | 309.3 | 310.6 | 312.8 | 315.1 | 314.9 | 315.0 | 315.6 | 316.4 | 316.6 | 319.5 | 322.3 | 322.8 |
| Food at home | 291.2 | 295.3 | 294.0 | 293.7 | 295.2 | 297.9 | 300.9 | 300.1 | 299.7 | 299.9 | 300.4 | 300.0 | 303.9 | 307.3 | 307.5 |
| Cereals and bakery products | 303.7 | 315.4 | 317.6 | 317.3 | 318.2 | 320.4 | 320.4 | 320.9 | 321.1 | 320.9 | 322.1 | 324.5 | 324.6 | 326.7 | 326.8 |
| Meats, poultry, fish, and eggs | 266.0 | 262.7 | 259.9 | 260.4 | 265.4 | 269.2 | 270.7 | 267.7 | 267.2 | 263.5 | 262.6 | 264.2 | 274.0 | 282.2 | 284.0 |
| Dairy products ............ | 252.2 | 256.9 | 256.8 | 255.9 | 255.9 | 255.7 | 256.0 | 256.0 | 255.5 | 255.5 | 255.8 | 255.9 | 257.0 | 256.9 | 257.1 |
| Fruits and vegetables | 312.5 | 320.3 | 313.6 | 311.2 | 309.4 | 319.3 | 329.7 | 316.0 | 314.6 | 325.0 | 331.6 | 323.5 | 325.6 | 327.2 | 324.2 |
| Other foods at home | 352.7 | 361.5 | 362.9 | 363.4 | 362.5 | 361.6 | 366.1 | 375.2 | 375.6 | 376.0 | 374.3 | 373.9 | 373.4 | 373.9 | 373.5 |
| Sugar and sweets | 388.6 | 398.3 | 400.8 | 402.2 | 400.9 | 401.8 | 404.7 | 408.1 | 407.8 | 410.9 | 410.6 | 410.9 | 411.9 | 412.6 | 413.0 |
| Fats and oils | 287.5 | 293.9 | 294.1 | 290.6 | 291.8 | 289.6 | 291.6 | 290.8 | 289.7 | 287.8 | 286.6 | 286.4 | 286.6 | 287.1 | 285.1 |
| Nonalcoholic beverage | 444.4 | 453.2 | 454.1 | 455.6 | 453.1 | 450.4 | 461.0 | 485.5 | 487.4 | 487.0 | 481.2 | 479.5 | 477.6 | 476.9 | 475.5 |
| Other prepared foods | 286.4 | 295.7 | 297.7 | 298.3 | 298.3 | 298.7 | 299.4 | 300.9 | 300.7 | 301.6 | 302.7 | 303.0 | 303.1 | 304.5 | 305.2 |
| Food away from home .. | 336.7 | 349.7 | 353.0 | 353.4 | 354.4 | 355.2 | 356.2 | 357.3 | 358.6 | 360.2 | 362.0 | 363.5 | 364.2 | 365.2 | 366.6 |
| Alcoholic beverages . | 225.3 | 232.6 | 232.6 | 239.1 | 238.8 | 239.1 | 240.1 | 240.9 | 241.4 | 242.3 | 242.2 | 242.9 | 243.4 | 243.0 | 243.4 |
| Housing | 329.2 | 343.3 | 347.2 | 347.5 | 348.3 | 349.1 | 350.1 | 349.7 | 350.1 | 351.1 | 351.6 | 354.3 | 354.5 | 355.4 | 356.6 |
| Shelter | 350.0 | 370.4 | 375.0 | 377.1 | 379.3 | 380.4 | 381.8 | 382.9 | 385.0 | 388.1 | 388.8 | 389.4 | 391.5 | 392.9 | 395.2 |
| Renters' costs ( $12 / 84=100$ ) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Rent, residential | 248.6 | 263.7 | 266.8 | 268.9 | 270.7 | 271.5 | 272.5 | 272.8 | 274.1 | 277.0 | 277.5 | 278.5 | 280.3 | 280.8 | 282.2 |
| Other renters' costs | 372.4 | 397.9 | 409.8 | 411.6 | 408.0 | 397.5 | 400.8 | 403.5 | 405.4 | 411.6 | 411.3 | 415.5 | 420.4 | 426.1 | 428.9 |
| Homeowners' costs (12/84=100) | - | 103.1 | 104.3 | 104.8 | 105.5 | 105.9 | 106.3 | 106.6 | 107.4 | 108.1 | 108.3 | 108.4 | 108.8 | 109.3 | 110.0 |
| Owners' equivalent rent ( $12 / 84=100)$ | - | 103.0 | 104.3 | 104.8 | 105.5 | 105.9 | 106.3 | 106.6 | 107.3 | 108.1 | 108.3 | 108.4 | 108.8 | 109.2 | 110.0 |
| Household insurance ( $12 / 84=100$ ) .... | - | 103.2 | 104.3 | 105.2 | 105.2 | 105.7 | 106.3 | 107.8 | 108.2 | 108.5 | 109.0 | 109.1 | 110.1 | 110.1 | 110.4 |
| Maintenance and repairs ... | 356.3 | 364.1 | 364.4 | 364.6 | 367.7 | 368.5 | 373.2 | 374.0 | 364.7 | 364.6 | 363.8 | 363.2 | 366.7 | 371.5 | 370.6 |
| Maintenance and repair services | 403.5 | 415.0 | 416.8 | 417.4 | 420.9 | 420.1 | 426.2 | 426.5 | 416.6 | 419.2 | 420.0 | 422.6 | 425.2 | 428.6 | 430.7 |
| Maintenance and repair commodities | 257.2 | 261.1 | 260.5 | 260.5 | 262.7 | 264.2 | 267.2 | 268.1 | 261.1 | 259.4 | 258.0 | 255.7 | 259.0 | 263.5 | 261.1 |
| Fuel and other utilities | 388.6 | 394.7 | 401.9 | 396.3 | 393.2 | 394.3 | 395.6 | 390.9 | 386.3 | 382.6 | 383.0 | 394.9 | 390.3 | 390.6 | 389.1 |
| Fuels | 485.0 | 487.5 | 496.7 | 487.2 | 481.0 | 483.1 | 484.1 | 475.7 | 467.1 | 459.1 | 459.7 | 477.3 | 469.1 | 469.3 | 467.1 |
| Fuel oil, coal, and bottled gas | 644.3 | 622.0 | 604.3 | 618.1 | 644.3 | 659.9 | 652.7 | 593.6 | 552.8 | 521.5 | 499.9 | 489.9 | 462.9 | 450.7 | 456.6 |
| Gas (piped) and electricity .... | 444.1 | 451.6 | 465.9 | 452.0 | 439.5 | 438.8 | 441.4 | 443.2 | 441.2 | 438.0 | 443.0 | 465.7 | 461.4 | 464.1 | 460.3 |
| Other utilities and public services | 231.2 | 241.6 | 245.6 | 245.7 | 246.8 | 246.7 | 248.3 | 248.8 | 249.9 | 252.1 | 252.2 | 255.8 | 256.3 | 256.6 | 256.2 |
| Household furnishings and operations | 239.1 | 243.4 | 243.2 | 244.5 | 245.1 | 245.2 | 245.1 | 245.3 | 246.0 | 246.0 | 246.1 | 246.2 | 246.5 | 246.6 | 247.5 |
| Housefurnishings ...... | 197.0 | 197.6 | 196.5 | 197.7 | 198.3 | 197.8 | 197.3 | 197.2 | 198.5 | 198.1 | 198.4 | 198.2 | 198.4 | 198.3 | 199.4 |
| Housekeeping supplies | 300.2 | 310.7 | 311.0 | 312.7 | 313.5 | 315.0 | 315.8 | 316.4 | 315.5 | 316.3 | 315.7 | 316.8 | 317.1 | 317.3 | 317.9 |
| Housekeeping services ............. | 328.0 | 340.2 | 342.9 | 343.9 | 344.5 | 345.0 | 345.6 | 346.3 | 346.6 | 347.1 | 347.4 | 347.8 | 348.4 | 349.1 | 349.5 |
| Apparel and upkeep .. | 199.1 | 205.0 | 208.7 | 210.2 | 210.2 | 208.1 | 204.1 | 203.1 | 205.2 | 206.1 | 205.1 | 203.0 | 201.8 | 205.9 | 211.0 |

30. Continued- Consumer Price Index for All Urban Consumers: U.S. city average, by expenditure category and commodity or service group; and CPI for Urban Wage Earners and Clerical Workers, all items
(1967 $=100$, unless otherwise indicated)

| Series | Annual average |  | 1985 |  |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| Apparel commodities | 186.6 | 191.3 | 195.1 | 196.6 | 196.5 | 194.1 | 189.4 | 188.2 | 190.4 | 191.2 | 190.1 | 187.7 | 186.3 | 190.8 | 196.2 |
| Men's and boys' apparel | 192.9 | 198.2 | 201.8 | 203.5 | 203.7 | 202.2 | 198.8 | 196.8 | 198.0 | 199.3 | 200.0 | 198.0 | 195.4 | 197.1 | 202.3 |
| Women's and girls' apparel | 165.0 | 171.3 | 178.2 | 180.0 | 178.3 | 174.5 | 166.1 | 165.2 | 169.0 | 169.3 | 165.9 | 162.0 | 160.8 | 169.3 | 178.1 |
| Infants' and toddlers' apparel | 297.6 | 311.7 | 314.9 | 314.8 | 320.7 | 317.3 | 332.7 | 328.6 | 329.6 | 331.3 | 334.3 | 335.6 | 323.7 | 328.6 | 326.2 |
| Footwear | 210.0 | 212.5 | 211.0 | 212.6 | 215.9 | 213.6 | 209.9 | 208.4 | 210.7 | 212.1 | 212.0 | 210.6 | 209.6 | 209.9 | 212.0 |
| Other apparel commodities | 204.5 | 203.1 | 202.5 | 202.4 | 202.5 | 202.4 | 203.5 | 204.2 | 203.5 | 204.1 | 203.8 | 204.5 | 206.5 | 209.5 | 209.0 |
| Apparel services .................... | 302.9 | 318.5 | 321.6 | 323.2 | 323.6 | 324.4 | 327.2 | 328.1 | 329.0 | 330.2 | 330.9 | 331.9 | 332.2 | 332.3 | 334.2 |
| Transportation | 313.9 | 321.6 | 321.1 | 322.2 | 324.6 | 325.3 | 325.1 | 320.1 | 310.3 | 303.5 | 305.9 | 308.7 | 304.6 | 300.9 | 301.8 |
| Private transportation | 310.1 | 317.4 | 316.6 | 317.6 | 320.1 | 320.8 | 320.2 | 314.8 | 304.5 | 297.4 | 299.9 | 302.8 | 298.3 | 294.4 | 295.3 |
| New vehicles | 207.3 | 214.2 | 213.5 | 215.3 | 217.5 | 218.6 | 219.0 | 219.4 | 219.4 | 220.2 | 222.0 | 223.2 | 223.7 | 223.6 | 223.3 |
| New cars | 207.9 | 214.5 | 213.8 | 215.5 | 217.8 | 218.8 | 219.2 | 219.7 | 219.5 | 220.4 | 222.3 | 223.4 | 223.9 | 223.9 | 223.7 |
| Used cars | 375.7 | 379.7 | 374.3 | 375.3 | 376.4 | 375.6 | 374.1 | 370.7 | 367.2 | 364.8 | 363.6 | 362.5 | 360.3 | 358.0 | 359.5 |
| Motor fuel | 372.2 | 375.4 | 379.5 | 376.3 | 378.7 | 379.6 | 375.3 | 353.0 | 309.6 | 280.1 | 290.3 | 300.6 | 280.9 | 266.7 | 271.9 |
| Gasoline | 371.8 | 375.0 | 379.2 | 375.8 | 378.1 | 378.9 | 374.6 | 352.3 | 308.8 | 279.1 | 289.6 | 300.3 | 280.5 | 266.1 | 271.4 |
| Maintenance and repair | 342.2 | 352.6 | 354.5 | 356.9 | 357.2 | 359.0 | 359.4 | 360.4 | 360.9 | 362.2 | 362.8 | 363.6 | 365.0 | 365.7 | 366.6 |
| Other private transportation | 274.2 | 287.7 | 285.2 | 289.2 | 293.7 | 294.7 | 296.9 | 298.4 | 300.6 | 300.4 | 299.8 | 301.2 | 302.4 | 302.2 | 299.7 |
| Other private transportation commodities | 203.9 | 204.7 | 205.6 | 205.0 | 203.7 | 204.3 | 205.6 | 205.4 | 206.0 | 204.6 | 204.9 | 203.9 | 203.8 | 204.0 | 202.7 |
| Other private transportation services ... | 295.4 | 312.3 | 308.9 | 314.1 | 320.2 | 321.3 | 323.7 | 325.7 | 328.3 | 328.5 | 327.7 | 329.6 | 331.2 | 330.9 | 328.1 |
| Public transportation ............... | 376.8 | 391.7 | 396.8 | 399.3 | 400.1 | 400.2 | 408.6 | 412.6 | 412.0 | 413.0 | 413.8 | 415.1 | 418.0 | 418.4 | 418.8 |
| Medical care | 377.7 | 401.2 | 406.3 | 408.5 | 410.9 | 412.6 | 416.0 | 420.0 | 423.5 | 425.7 | 427.3 | 429.6 | 432.4 | 435.0 | 437.1 |
| Medical care commodities | 239.7 | 256.3 | 259.8 | 260.9 | 262.2 | 262.3 | 264.1 | 267.0 | 268.8 | 270.7 | 271.7 | 272.5 | 274.6 | 275.2 | 275.8 |
| Medical care services | 407.9 | 432.7 | 438.1 | 440.6 | 443.2 | 445.4 | 449.2 | 453.5 | 457.3 | 459.5 | 461.3 | 464.0 | 466.9 | 470.1 | 472.6 |
| Professional services | 346.5 | 367.7 | 372.1 | 373.7 | 375.8 | 377.6 | 379.3 | 382.2 | 385.6 | 387.4 | 388.8 | 390.8 | 392.3 | 394.0 | 396.6 |
| Other medical care services | 484.7 | 513.9 | 520.7 | 524.4 | 527.5 | 530.4 | 536.9 | 543.0 | 547.3 | 550.0 | 552.3 | 555.8 | 560.7 | 565.8 | 568.1 |
| Entertainment | 251.2 | 260.1 | 261.6 | 263.0 | 263.7 | 263.0 | 265.4 | 266.5 | 266.5 | 266.9 | 267.3 | 268.4 | 269.0 | 269.2 | 270.0 |
| Entertainment commodities | 247.7 | 254.2 | 256.0 | 257.1 | 257.2 | 255.7 | 257.8 | 258.3 | 258.3 | 258.4 | 258.7 | 259.8 | 259.6 | 259.8 | 259.8 |
| Entertainment services | 258.5 | 271.6 | 272.6 | 274.6 | 276.3 | 276.8 | 280.0 | 282.0 | 282.1 | 283.0 | 283.6 | 284.8 | 286.5 | 286.7 | 288.9 |
| Other goods and services | 304.9 | 322.7 | 328.7 | 330.1 | 330.5 | 331.9 | 334.9 | 336.1 | 337.0 | 337.6 | 338.0 | 338.4 | 341.2 | 342.6 | 347.5 |
| Tobacco products | 309.7 | 328.1 | 332.4 | 334.0 | 334.3 | 337.1 | 342.4 | 344.4 | 345.2 | 346.0 | 346.0 | 346.7 | 354.0 | 355.9 | 356.5 |
| Personal care ....... | 269.4 | 279.6 | 281.8 | 282.7 | 283.1 | 284.0 | 285.9 | 286.8 | 288.0 | 288.2 | 288.6 | 288.6 | 288.8 | 289.9 | 289.5 |
| Toilet goods and personal care applia | 270.3 | 279.0 | 281.1 | 282.0 | 281.9 | 283.3 | 285.9 | 286.7 | 288.1 | 288.4 | 288.6 | 287.6 | 287.8 | 289.7 | 288.7 |
| Personal care services ................... | 268.8 | 280.5 | 282.8 | 283.7 | 284.8 | 285.2 | 286.4 | 287.4 | 288.4 | 288.4 | 289.0 | 290.0 | 290.2 | 290.5 | 290.8 |
| Personal and educational expenses | 368.2 | 399.3 | 414.5 | 416.5 | 417.3 | 417.4 | 418.9 | 419.9 | 420.1 | 421.2 | 422.0 | 422.9 | 423.8 | 425.1 | 446.1 |
| School books and supplies ........... | 327.5 | 355.7 | 366.9 | 369.2 | 369.3 | 369.4 | 375.6 | 378.4 | 379.0 | 379.1 | 379.1 | 380.2 | 380.5 | 381.4 | 393.9 |
| Personal and educational services | 378.2 | 410.1 | 426.1 | 428.1 | 428.9 | 429.1 | 429.7 | 430.3 | 430.5 | 431.8 | 432.8 | 433.6 | 434.6 | 436.0 | 458.7 |
| All items | 307.6 | 318.5 | 320.5 | 321.3 | 322.6 | 323.4 | 324.3 | 323.2 | 321.4 | 320.4 | 321.4 | 323.0 | 322.9 | 323.4 | 324.9 |
| Commodities | 280.4 | 286.5 | 286.8 | 287.6 | 288.9 | 289.7 | 289.8 | 287.0 | 283.1 | 280.4 | 281.3 | 282.0 | 281.1 | 281.1 | 282.6 |
| Food and beverages | 295.2 | 301.8 | 301.8 | 302.2 | 303.4 | 305.4 | 307.7 | 307.5 | 307.6 | 308.3 | 309.0 | 309.3 | 312.0 | 314.5 | 315.0 |
| Commodities less food and beverages. | 269.3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Nondurables less food and beverages | 277.5 | 283.8 | 286.5 | 287.0 | 288.5 | 288.7 | 286.9 | 280.1 | 269.6 | 262.0 | 263.6 | 265.2 | 260.1 | 258.1 | 261.5 |
| Apparel commodities | 186.6 | 191.3 | 195.1 | 196.6 | 196.5 | 194.1 | 189.4 | 188.2 | 190.4 | 191.2 | 190.1 | 187.7 | 186.3 | 190.8 | 196.2 |
| Nondurables less food, beverages, and apparel | 327.0 | 334.2 | 336.4 | 336.5 | 338.8 | 340.1 | 339.6 | 330.1 | 313.2 | 301.6 | 304.5 | 308.0 | 301.0 | 295.9 | 298.4 |
| Durables ............................................................ | 261.1 | 265.2 | 263.1 | 264.5 | 265.7 | 265.7 | 265.6 | 264.6 | 263.7 | 263.3 | 263.5 | 263.6 | 263.2 | 262.6 | 263.0 |
| Services | 358.0 | 377.3 | 382.0 | 383.0 | 384.2 | 385.1 | 387.2 | 388.8 | 390.5 | 392.2 | 393.2 | 396.4 | 397.7 | 399.0 | 400.4 |
| Rent of shelter ( $12 / 84=100$ ) | - | 103.2 | 104.5 | 105.1 | 105.8 | 106.1 | 106.4 | 106.7 | 107.4 | 108.3 | 108.5 | 108.7 | 109.2 | 109.6 | 110.3 |
| Household services less rent of shelter (12/84=100) | - | 102.6 | 104.8 | 103.3 | 102.1 | 102.0 | 102.6 | 103.0 | 102.8 | 102.7 | 103.4 | 106.4 | 106.0 | 106.4 | 106.0 |
| Transportation services .................................................... | 317.2 | 332.2 | 331.4 | 335.5 | 339.3 | 340.5 | 343.3 | 345.4 | 347.0 | 347.5 | 347.3 | 348.9 | 350.6 | 350.7 | 349.2 |
| Medical care services | 407.9 | 432.7 | 438.1 | 440.6 | 443.2 | 445.4 | 449.2 | 453.5 | 457.3 | 459.5 | 461.3 | 464.0 | 466.9 | 470.1 | 472.6 |
| Other services. | 292.9 | 310.1 | 315.0 | 316.7 | 317.8 | 318.3 | 320.4 | 321.6 | 322.1 | 322.9 | 323.6 | 324.6 | 325.6 | 326.0 | 332.2 |
| Special indexes: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All items less food | 307.5 | 319.4 | 321.9 | 322.9 | 324.2 | 324.6 | 325.1 | 323.8 | 321.5 | 320.2 | 321.2 | 323.2 | 322.3 | 322.2 | 323.9 |
| All items less shelter | 295.1 | 303.4 | 304.8 | 305.4 | 306.4 | 307.2 | 307.9 | 306.4 | 303.8 | 302.1 | 303.0 | 304.8 | 304.3 | 304.6 | 305.9 |
| All items less homeowners' costs (12/84=100) | -- | 101.8 | 102.4 | 102.6 | 103.0 | 103.2 | 103.5 | 103.0 | 102.3 | 101.8 | 102.1 | 102.7 | 102.6 | 102.7 | 103.2 |
| All items less medical care | 304.0 | 314.3 | 316.1 | 316.9 | 318.1 | 318.9 | 319.6 | 318.3 | 316.2 | 315.2 | 316.1 | 317.7 | 317.4 | 317.8 | 319.3 |
| Commodities less food | 267.1 | 272.8 | 273.4 | 274.5 | 275.9 | 275.9 | 275.0 | 270.9 | 264.9 | 260.7 | 261.6 | 262.6 | 259.6 | 258.3 | 260.3 |
| Nondurables less food................. | 272.6 | 279.0 | 281.5 | 282.4 | 283.8 | 283.9 | 282.3 | 276.1 | 266.4 | 259.4 | 260.9 | 262.4 | 257.7 | 255.8 | 259.1 |
| Nondurables less food and apparel | 313.2 | 320.3 | 322.3 | 323.1 | 325.0 | 326.3 | 325.9 | 317.5 | 302.6 | 292.2 | 294.9 | 298.0 | 291.8 | 287.3 | 289.6 |
| Nondurables .................................... | 287.4 | 293.9 | 295.2 | 295.7 | 297.1 | 298.2 | 298.4 | 295.0 | 289.8 | 286.3 | 287.5 | 288.4 | 287.2 | 287.5 | 289.5 |
| Services less rent of shelter ( $12 / 84=100$ ) | -- | 102.6 | 103.8 | 103.9 | 103.9 | 104.2 | 104.9 | 105.5 | 105.7 | 105.9 | 106.2 | 107.6 | 107.8 | 108.1 | 108.3 |
| Services less medical care .............. | 350.5 | 369.0 | 373.6 | 374.5 | 375.5 | 376.2 | 378.2 | 379.5 | 381.0 | 382.7 | 383.6 | 386.8 | 387.9 | 389.0 | 390.3 |
| Energy ............ | 423.3 | 426.3 | 432.5 | 426.6 | 425.4 | 426.8 | 424.7 | 408.1 | 379.0 | 358.4 | 364.6 | 378.1 | 363.1 | 354.8 | 356.9 |
| All items less energy | 298.3 | 309.9 | 311.5 | 313.0 | 314.5 | 315.3 | 316.5 | 316.9 | 317.8 | 318.8 | 319.2 | 319.7 | 321.1 | 322.4 | 323.9 |
| All items less food and energy | 295.8 | 308.7 | 310.7 | 312.7 | 314.2 | 314.6 | 315.4 | 316.1 | 317.2 | 318.3 | 318.6 | 319.1 | 320.1 | 321.0 | 322.7 |
| Commodities less food and energy | 250.5 | 256.8 | 257.2 | 258.8 | 259.5 | 259.2 | 258.8 | 258.5 | 258.7 | 258.8 | 258.8 | 258.5 | 258.5 | 259.3 | 260.9 |
| Energy commodities ...................... | 410.5 | 410.9 | 412.6 | 411.2 | 416.3 | 418.9 | 414.1 | 387.3 | 343.3 | 312.9 | 319.8 | 328.1 | 307.2 | 292.9 | 298.2 |
| Services less energy | 350.8 | 371.1 | 374.9 | 377.3 | 379.8 | 380.8 | 382.9 | 384.5 | 386.5 | 388.8 | 389.4 | 390.8 | 392.6 | 393.7 | 395.7 |
| Purchasing power of the consumer dollar: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1967 = \$1.00 ...... | 32.5 | 31.4 | 31.2 | 31.1 | 31.0 | 30.9 | 30.8 | 30.9 | 31.1 | 31.2 | 31.1 | 31.0 | 31.0 | 30.9 | 30.8 |
| $1957-59=\$ 1.00$.................................. | 28.0 | 27.0 | 26.8 | 26.8 | 26.7 | 26.6 | 26.5 | 26.6 | 26.8 | 26.8 | 26.8 | 26.6 | 26.6 | 26.6 | 26.5 |

[^34]31. Consumer Price Index: U.S. city average and available local area data: all items

| Area ${ }^{1}$ | Pricing schedule ${ }^{2}$ | Other index base | All Urban Consumers |  |  |  |  |  |  | Urban Wage Earners |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 1985 |  | 1986 |  |  |  |  | 1985 |  | 1986 |  |  |  |  |
|  |  |  | Sept. | Oct. | May | June | July | Aug. | Sept. |  | Oct. | May | June | July | Aug. | Sept. |
| U.S. city average ................... |  | - | 324.5 | 325.5 | 326.3 | 327.9 | 328.0 | 328.6 | 330.2 | 320.5 | 321.3 | 321.4 | 323.0 | 322.9 | 323.4 | 324.9 |
| Chicago, III.-Northwestern Ind. | M | - | 326.3 | 322.6 | 324.2 | 330.4 | 331.1 | 331.4 | 333.9 | 312.1 | 308.9 | 309.6 | 315.6 | 316.0 | 316.2 | 318.3 |
| Detroit, Mich. .............................. | M | - | 320.5 | 319.7 | 321.7 | 321.0 | 318.4 | 323.2 | 321.1 | 310.3 | 309.7 | 311.0 | 310.2 | 307.5 | 312.8 | 310.5 |
| Los Angeles-Long Beach, Anaheim, Calif. $\qquad$ | M | - | 323.8 | 326.1 | 329.4 | 331.3 | 330.9 | 330.9 | 334.6 | 317.7 | 320.0 | 322.7 | 324.5 | 323.8 | 323.5 | 326.8 |
| New York, N.Y.-Northeastern N.J. $\qquad$ | M | - | 316.9 | 317.4 | 320.6 | 322.8 | 325.1 | 325.9 | 326.6 | 309.3 | 309.9 | 312.3 | 314.4 | 316.5 | 317.2 | 317.5 |
| Philadelphia, Pa.-N.J. .............. | M | - | 316.5 | 317.4 | 318.9 | 321.7 | 323.0 | 323.1 | 325.8 | 319.1 | 320.3 | 320.8 | 323.5 | 324.6 | 324.4 | 326.7 |
| Anchorage, Alaska $(10 / 67=100)$ | 1 | 10/67 | 284.5 | - | 288.9 | - | 286.3 | - | 286.2 | 277.3 | - | 281.8 | - | 278.4 | - | 277.9 |
| Baltimore, Md. ......................... | 1 |  | 327.5 | - | 329.1 | - | 330.2 | - | 334.0 | 326.3 | - | 326.8 | - | 327.9 | - | 330.9 |
| Boston, Mass. ........................ | 1 | - | 321.3 | - | 322.6 | - | 323.6 | - | 328.2 | 319.3 | - | 319.3 | - | 320.8 | - | 325.2 |
| Cincinnati, Ohio-Ky.-Ind. ......... | 1 | - | 329.8 | - | 332.0 | - | 332.4 | - | 333.0 | 322.8 | - | 324.8 | - | 324.9 | - | 324.7 |
| Denver-Boulder, Colo. ............. | 1 | /77 | 358.0 | - | 356.3 | - | 358.4 | - | 362.9 | 353.3 | - | 350.3 | - | 352.4 | - | 357.2 |
| Miami, Fla. ( $11 / 77=100$ ) $\ldots . .$. | 1 | 11/77 | 173.5 | - | 173.0 | - | 171.2 | - | 174.3 | 174.5 | - | 173.4 | - | 171.6 | - | 174.5 |
| Milwaukee, Wis. ...................... | 1 | - | 332.4 | - | 332.0 | - | 331.3 | - | 332.9 | 351.4 | - | 350.6 | - | 350.1 | - | 351.7 |
| Northeast, Pa. ........................ | 1 | - | 306.8 | - | 309.2 | - | 309.0 | - | 311.3 | 306.3 | - | 308.1 | - | 307.8 | - | 310.2 |
| Portland, Oreg.-Wash. ............. | 1 | - | 314.9 | - | 314.6 | - | 314.7 | - | 318.0 | 305.4 | - | 303.2 | - | 303.4 | - | 306.3 |
| St. Louis, Mo.-III. ..................... | 1 | - | 321.6 | - | 318.6 | - | 325.6 | - | 325.7 | 318.5 | - | 314.2 | - | 320.6 | - | 320.7 |
| San Diego, Calif. ..................... | 1 | - | 377.3 | - | 382.8 | - | 383.1 | - | 385.9 | 340.3 | - | 345.2 | - | 345.0 | - | 347.4 |
| Seattle-Everett, Wash. ............ | 1 | - | 321.8 | - | 323.5 | - | 323.7 | - | 326.3 | 308.9 | - | 309.4 | - | 310.1 | - | 312.3 |
| Washington, D.C.-Md.-Va. ...... | 1 | - | 323.6 | - | 329.6 | - | 329.3 | - | 332.3 | 327.4 | - | 330.2 | - | 330.2 | - | 334.6 |
| Alanta, Ga. ............................ | 2 | - | - | 333.0 | - | 338.5 | - | 338.9 | - | - | 330.0 | - | 335.5 | - | 335.4 | - |
| Buffalo, N.Y. ........................... | 2 | - | - | 309.3 | - | 308.9 | - | 307.5 | - | - | 295.3 | - | 294.0 | - | 292.5 | - |
| Cleveland, Ohio ..................... | 2 | - | - | 348.6 | - | 350.6 | - | 352.7 | - | - | 327.0 | - | 328.2 | - | 329.9 | - |
| Dallas-Ft. Worth, Tex. ............. | 2 | - | - | 343.9 | - | 344.7 | - | 346.2 | - | - | 337.5 | - | 337.4 | - | 339.1 | - |
| Honolulu, Hawaii | 2 | - | - | 295.6 | - | 299.2 | - | 301.5 | - | - | 302.7 | - | 306.5 | - | 308.3 | - |
| Houston, Tex. | 2 | - | - | 337.6 | - | 333.3 | - | 332.9 | - | - | 335.0 | - | 330.9 | - | 330.5 | - |
| Kansas City, Mo.-Kansas Minneapolis-St. Paul, | 2 | - | - | 323.1 | - | 322.9 | - | 323.9 | - | - | 312.9 | - | 311.4 | - | 311.9 | - |
| Minneapolis-St. Paul, Minn.-Wis. $\qquad$ | 2 | - | - | 340.6 | - | 342.1 | - | 340.3 | - | - | 336.0 | - | 336.2 | - | 334.5 | - |
| Pittsburgh, Pa. ........................ | 2 | - | - | 328.4 | - | 328.6 | - | 330.1 | - | - | 309.9 | - | 308.3 | - | 309.2 | - |
| San Francisco-Oakland, Calif. | 2 | - | - | 336.7 | - | 344.0 | - | 345.5 | - | - | 331.0 | - | 338.1 | - | 339.0 | - |
| Region ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast | 2 | 12/77 | - | 172.5 | - | 174.2 | - | 175.0 | - | - | 170.3 | - | 171.6 | - | 172.2 | - |
| North Central ....................... | 2 | 12/77 | - | 174.9 | - | 176.1 | - | 176.2 | - | - | 171.4 | - | 172.2 | - | 172.2 | - |
| South ................................... | 2 | 12/77 | - | 175.7 | - | 176.3 | - | 176.4 | - | - | 175.3 | - | 175.2 | - | 175.3 | - |
| West ................................... | 2 | 12/77 | - | 176.9 | - | 178.7 | - | 179.0 | - | - | 174.8 | - | 176.3 | - | 176.4 | - |
| Population size class ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A-1 | 2 | 12/77 | - | 172.9 | - | 175.7 | - | 176.6 | - | - | 168.7 | - | 171.0 | - | 171.8 | - |
| A-2 | 2 | 12/77 | - | 177.6 | - | 178.9 | - | 179.1 | - | - | 174.6 | - | 175.2 | - | 175.3 | - |
| B ........................................ | 2 | 12/77 | - | 176.3 | - | 177.0 | - | 176.6 | - | - | 173.6 | - | 174.1 | - | 173.5 | - |
| C ....................................... | 2 | 12/77 | - | 173.8 | - | 174.7 | - | 175.0 | - | - | 174.1 | - | 174.6 | - | 174.8 | - |
| D ........................................ | 2 | 12/77 | - | 173.8 | - | 173.4 | - | 173.8 | - | - | 174.9 | - | 174.2 | - | 174.5 | - |
| Region/population size class cross classification ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Class A: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast ......................... | 2 | 12/77 | - | 169.6 | - | 171.8 | - | 173.1 | - | - | 166.1 | - | 167.7 | - | 168.8 | - |
| North Central ..................... | 2 | 12/77 | - | 178.2 | - | 180.3 | - | 180.7 | - | - | 173.1 | - | 174.7 | - | 175.0 | - |
| South | 2 | 12/77 | - | 175.6 | - | 176.8 | - | 176.7 | - | - | 175.7 | - | 176.1 | - | 176.1 | - |
| West ................................. | 2 | 11/77 | - | 179.1 | - | 181.8 | - | 182.0 | - | - | 174.6 | - | 177.1 | - | 176.9 | - |
| Class B: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast .......................... | 2 | 12/77 | - | 174.9 | - | 175.2 | - | 174.7 | - | - | 171.8 | - | 172.2 | - | 171.8 | - |
| North Central ..................... | 2 | 12/77 | - | 173.4 | - | 174.1 | - | 172.5 | - | - | 169.5 | - | 169.7 | - | 168.1 | - |
| South .................................. | 2 | 12/77 | - | 177.4 | - | 178.5 | - | 178.6 | - | - | 173.9 | - | 174.6 | - | 174.6 | - |
| West ................................. | 2 | 12/77 | - | 177.9 | - | 178.3 | - | 178.1 | - | - | 178.4 | - | 178.7 | - | 178.3 | - |

See footnotes at end of table.
31. Continued- Consumer Price Index: U.S. city average and available local area data: all items (1967 $=100$, unless otherwise indicated)


1 Area is generally the Standard Metropolitan Statistical Area (SMSA), exclusive of farms. L.A.-Long Beach, Anaheim, Calif. is a combination of two SMSA's, and N.Y., N.Y.-Northeastern N.J. and Chicago, III.Northwestern Ind. are the more extensive Standard Consolidated Areas. Area definitions are those established by the Office of Management and Budget in 1973, except for Denver-Boulder, Colo. which does not include Douglas County. Definitions do not include revisions made since 1973.

2 Foods, fuels, and several other items priced every month in all areas; most other goods and services priced as indicated:.
M - Every month.
1 - January, March, May, July, September, and November.
2 - February, April, June, August, October, and December.
${ }^{3}$ Regions are defined as the four Census regions.
The population size classes are aggregations of areas which have urban population as defined:
population as defined:
A-1 - More than $4,000,000$

A-2 - 1,250,000 to $4,000,000$.
B - 385,000 to $1,250,000$
C $-75,000$ to 385,000 .
D - Less than 75,000 .
Population size class $A$ is the aggregation of population size classes $A-1$ and A-2.

- Data not available.

NOTE: Local area CPI indexes are byproducts of the national CPI program. Because each local index is a small subset of the national index, it has a smaller sample size and is, therefore, subject to substantially more sampling and other measurement error than the national index. As a result, local area indexes show greater volatility than the national index, although their long-term trends are quite similar. Therefore, the Bureau of Labor Statistics strongly urges users to consider adopting the national average CPI for use in escalator clauses.
32. Annual data: Consumer Price Index all items and major groups

| Series | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Consumer Price Index for All Urban Consumers: All items: |  |  |  |  |  |  |  |  |  |
| Index ...................... | 181.5 | 195.4 | 217.4 | 246.8 | 272.4 | 289.1 | 298.4 | 311.1 | 322.2 |
| Percent change | 6.5 | 7.7 | 11.3 | 13.5 | 10.4 | 6.1 | 3.2 | 4.3 | 3.6 |
|  |  |  |  |  |  |  |  |  |  |
| Index. | 188.0 | 206.3 | 228.5 | 248.0 | 267.3 | 278.2 | 284.4 | 295.1 | 302.0 |
| Percent change | 6.0 | 9.7 | 10.8 | 8.5 | 7.8 | 4.1 | 2.2 | 3.8 | 2.3 |
|  |  |  |  |  |  |  |  |  |  |
| Index | 186.5 | 202.8 | 227.6 | 263.3 | 293.5 | 314.7 | 323.1 | 336.5 | 349.9 |
| Percent change | 6.8 | 8.7 | 12.2 | 15.7 | 11.5 | 7.2 | 2.7 | 4.1 | 4.0 |
| Apparel and upkeep: |  |  |  |  |  |  |  |  |  |
| Index | 154.2 | 159.6 | 166.6 | 178.4 | 186.9 | 191.8 | 196.5 | 200.2 | 206.0 |
| Percent change | 4.5 | 3.5 | 4.4 | 7.1 | 4.8 | 2.6 | 2.5 | 1.9 | 2.9 |
| Transportation: |  |  |  |  |  |  |  |  |  |
| Index. | 177.2 | 185.5 | 212.0 | 249.7 | 280.0 | 291.5 | 298.4 | 311.7 | 319.9 |
| Percent change | 7.1 | 4.7 | 14.3 | 17.8 | 12.1 | 4.1 | 2.4 | 4.5 | 2.6 |
| Medical care: |  |  |  |  |  |  |  |  |  |
| Index .......................................................................... | 202.4 | 219.4 | 239.7 | 265.9 | 294.5 | 328.7 | 357.3 | 379.5 | 403.1 |
| Percent change .......................................................... | 9.6 | 8.4 | 9.3 | 10.9 | 10.8 | 11.6 | 8.7 | 6.2 | 6.2 |
| Entertainment: |  |  |  |  |  |  |  |  |  |
| Index ............ | 167.7 | 176.6 | 188.5 | 205.3 | 221.4 | 235.8 | 246.0 | 255.1 | 265.0 |
| Percent change | 4.9 | 5.3 | 6.7 | 8.9 | 7.8 | 6.5 | 4.3 | 3.7 | 3.9 |
| Other goods and services: |  |  |  |  |  |  |  |  |  |
| Index | 172.2 | 183.3 | 196.7 | 214.5 | 235.7 | 259.9 | 288.3 | 307.7 | 326.6 |
| Percent change | 5.8 | 6.4 | 7.3 | 9.0 | 9.9 | 10.3 | 10.9 | 6.7 | 6.1 |
| Consumer Price Index for Urban Wage Earners and Clerical Workers <br> All items: |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Index .............. | 181.5 | 195.3 | 217.7 | 247.0 | 272.3 | 288.6 | 297.4 | 307.6 | 318.5 |
| Percent change ........................................................... | 6.5 | 7.6 | 11.5 | 13.5 | 10.2 | 6.0 | 3.0 | 3.4 | 3.5 |

33. Producer Price Indexes, by stage of processing
$(1967=100)$

| Grouping | Annual average |  | 1985 |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| Finished goods | 291.1 | 293.7 | 294.7 | 296.4 | 297.2 | 296.0 | 291.9 | 288.0 | 287.2 | 288.9 | 288.9 | 288.0 | 288.3 | 287.5 |
| Finished consumer goods | 290.3 | 291.8 | 292.3 | 294.4 | 295.4 | 293.8 | 288.4 | 283.4 | 281.9 | 284.1 | 284.1 | 282.7 | 283.1 | 282.7 |
| Finished consumer foods | 273.3 | 271.2 | 268.2 | 271.8 | 275.0 | 275.0 | 272.0 | 271.6 | 271.9 | 274.8 | 275.1 | 280.7 | 283.6 | 282.2 |
| Finished consumer goods excluding foods | 294.1 | 297.3 | 299.4 | 300.7 | 300.7 | 298.3 | 291.8 | 284.6 | 282.2 | 284.0 | 283.8 | 278.8 | 278.0 | 278.1 |
| Nondurable goods less food ................ | 337.3 | 339.3 | 340.3 | 342.6 | 343.2 | 339.6 | 328.0 | 315.4 | 309.8 | 313.0 | 312.6 | 303.4 | 302.0 | 304.8 |
| Durable goods .................................... | 236.8 | 241.5 | 244.9 | 245.0 | 244.3 | 243.5 | 243.9 | 243.7 | 245.7 | 245.5 | 245.8 | 246.3 | 246.2 | 242.7 |
| Capital equipment .................................... | 294.0 | 300.5 | 303.5 | 303.8 | 303.7 | 303.9 | 304.3 | 304.3 | 305.6 | 305.7 | 305.8 | 306.4 | 306.3 | 304.2 |
| Intermediate materials, supplies, and components | 320.0 | 318.7 | 317.6 | 318.1 | 318.9 | 317.4 | 313.5 | 309.5 | 307.1 | 306.7 | 307.1 | 305.0 | 304.5 | 306.1 |
| Materials and components for manufacturing $\qquad$ | 301.8 | 299.5 | 298.0 | 297.7 | 297.9 | 297.1 | 296.5 | 296.4 | 295.5 | 295.4 | 295.3 | 295.8 | 296.0 | 296.2 |
| Materials for food manufacturing ............ | 271.1 | 258.8 | 252.3 | 254.0 | 254.3 | 252.8 | 249.2 | 246.7 | 244.8 | 248.7 | 247.8 | 251.6 | 255.7 | 254.3 |
| Materials for nondurable manufacturing | 290.5 | 285.9 | 283.3 | 282.8 | 283.1 | 283.8 | 282.4 | 282.5 | 279.3 | 278.2 | 278.0 | 278.2 | 277.2 | 277.3 |
| Materials for durable manufacturing ........ | 325.1 | 320.2 | 318.6 | 317.5 | 317.6 | 313.4 | 313.1 | 313.6 | 313.7 | 313.2 | 313.3 | 313.3 | 313.4 | 314.5 |
| Components for manufacturing ............... | 287.5 | 291.5 | 292.3 | 292.3 | 292.4 | 293.1 | 293.6 | 293.7 | 294.1 | 294.1 | 294.2 | 294.6 | 294.9 | 295.1 |
| Materials and components for construction $\qquad$ | 310.3 | 315.2 | 315.5 | 315.0 | 315.7 | 316.2 | 316.5 | 317.0 | 318.3 | 318.3 | 317.7 | 318.0 | 317.6 | 317.9 |
| Processed fuels and lubricants ....................................................... | 566.2 | 548.9 | 542.6 | 550.5 | 557.2 | 540.8 | 500.8 | 453.4 | 428.5 | 424.2 | 429.3 | 401.6 | 395.2 | 409.1 |
| Containers .......................... | 302.3 | 311.2 | 310.4 | 309.8 | 310.6 | 311.2 | 310.9 | 312.3 | 312.8 | 313.6 | 313.6 | 314.2 | 316.4 | 317.8 |
| Supplies ................................................... | 283.4 | 284.2 | 285.1 | 285.6 | 285.7 | 286.6 | 286.4 | 286.8 | 287.2 | 287.1 | 287.3 | 287.4 | 287.1 | 287.9 |
| Crude materlals for further processing ... | 330.8 | 306.1 | 297.8 | 304.7 | 304.3 | 301.0 | 289.0 | 281.1 | 273.7 | 279.4 | 274.9 | 278.0 | 275.5 | 275.5 |
| Foodstuffs and feedstuffs ....................... | 259.5 | 235.0 | 224.6 | 236.6 | 236.8 | 231.7 | 227.2 | 224.4 | 220.3 | 229.9 | 226.1 | 233.6 | 236.3 | 231.9 |
| Nonfood materials ${ }^{1}$.................................. | 484.5 | 459.2 | 455.3 | 451.6 | 450.0 | 450.6 | 422.7 | 403.9 | 389.4 | 386.9 | 380.7 | 374.1 | 360.0 | 369.6 |
| Special groupings |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Finished goods, excluding foods ................. | 294.8 | 299.0 | 301.3 | 302.4 | 302.4 | 300.7 | 296.3 | 291.2 | 289.9 | 291.2 | 291.1 | 287.8 | 287.2 | 286.6 |
| Finished energy goods .............................. | 750.3 | 720.9 | 716.5 | 729.5 | 733.8 | 700.9 | 629.3 | 554.1 | 517.2 | 534.1 | 531.5 | 467.8 | 459.1 | 477.2 |
| Finished goods less energy | 265.1 | 269.2 | 270.5 | 271.6 | 272.2 | 272.7 | 272.2 | 272.1 | 273.1 | 274.0 | 274.2 | 276.4 | 277.2 | 275.4 |
| Finished consumer goods less energy ......... | 257.8 | 261.3 | 262.1 | 263.4 | 264.3 | 264.8 | 264.0 | 263.9 | 264.9 | 266.1 | 266.2 | 269.0 | 270.0 | 268.4 |
| Finished goods less food and energy ......... | 262.3 | 268.7 | 271.6 | 271.8 | 271.4 | 272.1 | 272.5 | 272.5 | 273.9 | 274.0 | 274.1 | 275.0 | 275.0 | 273.1 |
| Finished consumer goods less food and energy $\qquad$ | 245.9 | 252.1 | 254.9 | 255.0 | 254.6 | 255.5 | 256.0 | 256.0 | 257.3 | 257.5 | 257.6 | 258.6 | 258.6 | 256.9 |
| Consumer nondurable goods less food and energy $\qquad$ | 239.0 | 246.2 | 248.3 | 248.5 | 248.3 | 250.5 | 251.1 | 251.2 | 252.0 | 252.3 | 252.3 | 253.8 | 253.8 | 253.6 |
| Intermediate materials less foods and feeds $\qquad$ | 325.0 | 325.0 | 324.1 | 324.5 | 325.3 | 323.6 | 319.7 | 315.5 | 313.0 | 312.4 | 312.8 | 310.5 | 309.9 | 311.5 |
| Intermediate foods and feeds ....................................................... | 253.1 | 232.8 | 228.6 | 231.4 | 232.7 | 232.6 | 228.9 | 227.8 | 227.0 | 229.3 | 229.0 | 230.3 | 232.4 | 233.3 |
| Intermediate energy goods ...... | 545.0 | 528.3 | 522.2 | 529.3 | 536.2 | 520.0 | 482.0 | 437.0 | 413.3 | 409.1 | 413.9 | 387.1 | 380.8 | 393.8 |
| Intermediate goods less energy ........... | 303.8 | 304.0 | 303.4 | 303.2 | 303.5 | 303.4 | 303.0 | 303.3 | 303.1 | 303.0 | 302.9 | 303.4 | 303.5 | 304.0 |
| Intermediate materials less foods and energy $\qquad$ | 303.6 | 305.2 | 304.6 | 304.2 | 304.5 | 304.3 | 304.2 | 304.5 | 304.3 | 304.0 | 303.9 | 304.2 | 304.2 | 304.7 |
| Crude energy materials | 785.2 | 748.1 | 743.1 | 737.1 | 735.6 | 732.8 | 662.9 | 614.5 | 577.0 | 570.6 | 554.2 | 538.7 | 524.5 | 544.1 |
| Crude materials less energy .............. | 255.5 | 233.2 | 224.7 | 233.2 | 233.0 | 229.8 | 226.5 | 224.7 | 221.9 | 229.2 | 226.5 | 232.0 | 231.1 | 228.5 |
| Crude nonfood materials less energy ........ | 266.1 | 249.7 | 246.5 | 244.6 | 242.9 | 245.8 | 246.5 | 247.9 | 249.1 | 249.3 | 250.0 | 249.2 | 236.1 | 239.2 |

[^35]34. Producer Price indexes, by durability of product
$(1967=100)$

| Grouping | Annual average |  | 1985 |  |  | 1986 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. |
| Total durable goods | 293.6 | 297.3 | 298.8 | 298.5 | $298.5$ | 298.1 | 298.4 | 298.6 | 299.7 | 299.6 | 299.6 | 300.0 | 300.1 | 299.2 |
| Total nondurable goods .............................. | 323.3 | 317.2 | 314.3 | 317.6 | 318.8 | 316.8 | 308.4 | 300.7 | 296.0 | 297.9 | 297.4 | 294.9 | 294.0 | 295.6 |
| Total manufactures ..................................... | 302.9 | 304.3 | 304.4 | 305.4 | 306.0 | 304.8 | 301.1 | 297.3 | 296.1 | 296.7 | 297.0 | 295.4 | 295.6 | 296.2 |
| Durable ................................................... | 293.9 | 298.1 | 299.7 | 299.5 | 299.5 | 299.0 | 299.3 | 299.4 | 300.5 | 300.4 | 300.5 | 300.9 | 300.9 | 300.1 |
| Nondurable .............................................. | 312.3 | 310.5 | 309.2 | 311.4 | 312.5 | 310.6 | 302.9 | 294.9 | 291.2 | 292.6 | 293.1 | 289.2 | 289.7 | 292.0 |
| Total raw or slightly processed goods |  | 327.9 | 320.6 | 326.2 | 327.6 | 326.0 | 316.3 | 310.3 | 303.0 | 306.2 | 302.6 | 304.3 | 299.7 | 299.2 |
| Durable | $266.7$ | 252.2 | 248.1 | 245.2 | 244.3 | 248.2 | 251.2 | 252.4 | 253.1 | 252.1 | 250.9 | 248.9 | 252.4 | 253.2 |
| Nondurable ............................................. | 351.4 | 332.4 | 324.9 | 331.2 | 332.7 | 330.6 | 320.2 | 313.6 | 305.8 | 309.3 | 305.5 | 307.4 | 302.3 | 301.7 |

35. Annual data: Producer Price Indexes, by stage of processing
$(1967=100)$

| Index | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Finished goods: |  |  |  |  |  |  |  |  |  |
| Total ... | 181.7 | 195.9 | 217.7 | 247.0 | 269.8 | 280.7 | 285.2 | 291.1 | 293.7 |
| Consumer goods .......................................... | 180.7 | 194.9 | 217.9 | 248.9 | 271.3 | 281.0 | 284.6 | 290.3 | 291.8 |
| Capital equipment ......................................... | 184.6 | 199.2 | 216.5 | 239.8 | 264.3 | 279.4 | 287.2 | 294.0 | 300.5 |
| Intermediate materials, supplies, and components: |  |  |  |  |  |  |  |  |  |
| Total ................................................. | 201.5 | 215.6 | 243.2 | 280.3 | 306.0 | 310.4 | 312.3 | 320.0 | 318.7 |
| Materials and components for manufacturing $\qquad$ | 195.4 | 208.7 | 234.4 | 265.7 | 286.1 | 289.8 | 293.4 | 301.8 | 299.5 |
| Materials and components for construction .... | 203.4 | 224.7 | 247.4 | 268.3 | 287.6 | 293.7 | 301.8 | 310.3 | 315.2 |
| Processed fuels and lubricants ...................... | 282.5 | 295.3 | 364.8 | 503.0 | 595.4 | 591.7 | 564.8 | 566.2 | 548.9 |
| Containers .................................................... | 188.3 | 202.8 | 226.8 | 254.5 | 276.1 | 285.6 | 286.6 | 302.3 | 311.2 |
| Supplies ....................................................... | 188.7 | 198.5 | 218.2 | 244.5 | 263.8 | 272.1 | 277.1 | 283.4 | 284.2 |
| Crude materials for further processing: |  |  |  |  |  |  |  |  |  |
| Total ................................................................ | 209.2 | 234.4 | 274.3 | 304.6 | 329.0 | 319.5 | 323.6 | 330.8 | 306.1 |
| Foodstuffs and feedstuffs ....... | 192.1 | 216.2 | 247.9 | 259.2 | 257.4 | 247.8 | 252.2 | 259.5 | 235.0 |
| Nonfood materials except fuel ........................ | 212.2 | 233.1 | 284.5 | 346.1 | 413.7 | 376.8 | 372.2 | 380.5 | 355.3 |
| Fuel ............................................................ | 372.1 | 426.8 | 507.6 | 615.0 | 751.2 | 886.1 | 931.5 | 931.3 | 909.6 |

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36. U.S. export price indexes by Standard International Trade Classification.
(June $1977=100$, unless otherwise indicated)

| Category | $\begin{aligned} & 1974 \\ & \text { SITC } \end{aligned}$ | 1983 | 1984 |  |  |  | 1985 |  |  |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June |
| ALL COMMODITIES (9/83 = 100) |  | 99.5 | 100.2 | 101.5 | 99.3 | 98.1 | 97.5 | 97.5 | 96.5 | 96.7 | 97.0 | 96.7 |
| Food (3/83 $=100$ ) | 0 | 108.8 | 106.2 | 109.6 | 103.5 | 96.5 | 95.8 | 94.0 | 90.2 | 93.6 | 90.5 | 89.5 |
| Meat ( $3 / 83=100$ ) | 01 | 101.2 | 108.9 | 108.7 | 105.6 | 104.4 | 103.9 | 104.7 | 106.1 | 112.2 | 111.5 | 114.7 |
| Fish ( $3 / 83=100$ ) | 03 | 100.4 | 99.8 | 98.7 | 98.0 | 98.7 | 101.0 | 103.6 | 102.6 | 101.8 | 102.2 | 106.2 |
| Grain and grain preparations ( $3 / 80=100$ ) | 04 | 105.6 | 102.7 | 107.4 | 101.2 | 92.9 | 92.4 | 90.3 | 82.6 | 87.1 | 82.1 | 79.1 |
| Vegetables and fruit ( $3 / 83=100$ ) ............. | 05 | 116.1 | 116.2 | 126.8 | 125.5 | 114.6 | 119.4 | 120.1 | 126.8 | 118.8 | 115.2 | 125.7 |
| Feedstuffs for animals ( $3 / 83=100$ ) | 08 | 117.4 | 106.9 | 98.8 | 83.5 | 82.4 | 72.8 | 68.6 | 75.7 | 83.4 | 88.5 | 85.5 |
| Misc. food products ( $3 / 83=100$ ) ... | 09 | 101.7 | 104.9 | 110.6 | 109.5 | 108.4 | 110.6 | 109.2 | 108.1 | 107.7 | 106.0 | 104.7 |
| Beverages and tobacco $(6 / 83=100)$ | 1 | 101.5 | 101.6 | 101.9 | 102.8 | 101.3 | 99.9 | 100.1 | 99.7 | 98.6 | 95.6 | 96.5 |
| Beverages ( $9 / 83=100$ ) | 11 | 103.3 | 102.3 | 102.9 | 103.3 | 103.7 | 104.0 | 105.3 | 101.8 | 100.9 | 101.9 | 103.0 |
| Tobacco and tobacco products (6/83=100) ........................................ | 12 | 101.4 | 101.6 | 101.8 | 102.7 | 101.1 | 99.5 | 99.6 | 99.5 | 98.4 | 95.1 | 95.9 |
| Crude materials (6/83 = 100) ............................................................... | 2 | 112.2 | 112.5 | 118.3 | 105.2 | 101.4 | 97.5 | 96.8 | 93.3 | 92.5 | 95.8 | 95.6 |
| Raw hides and skins ( $6 / 80=100$ ) | 21 | 135.2 | 145.6 | 154.7 | 153.7 | 133.6 | 121.0 | 126.2 | 129.0 | 139.9 | 138.9 | 148.9 |
| Oilseeds and oleaginous fruit ( $9 / 77=100$ ) | 22 | 96.8 | 93.9 | 104.3 | 79.9 | 74.8 | 71.0 | 71.2 | 64.2 | 63.9 | 66.9 | 65.8 |
| Crude rubber (including synthetic and reclaimed) $(9 / 83=100)$ | 23 | 102.2 | 103.3 | 106.0 | 104.1 | 104.0 | 106.4 | 106.3 | 107.1 | 106.0 | 106.0 | 106.1 |
| Wood | 24 | 129.8 | 131.1 | 129.4 | 123.8 | 125.4 | 128.7 | 125.7 | 124.5 | 128.1 | 128.7 | 128.7 |
| Pulp and waste paper ( $6 / 83=100$ ) | 25 | 106.0 | 112.5 | 122.1 | 120.8 | 114.2 | 100.5 | 96.1 | 93.8 | 92.7 | 98.8 | 109.7 |
| Textile fibers ....................... | 26 | 123.1 | 120.5 | 125.6 | 109.4 | 106.7 | 102.4 | 105.8 | 103.6 | 97.7 | 101.6 | 98.6 |
| Crude fertilizers and minerals | 27 | 144.8 | 146.6 | 147.7 | 163.0 | 163.2 | 165.6 | 167.9 | 169.4 | 165.5 | 168.0 | 166.1 |
| Metalliferous ores and metal scrap | 28 | 96.7 | 100.2 | 98.5 | 93.2 | 92.4 | 89.2 | 82.0 | 80.1 | 78.7 | 83.4 | 80.5 |
| Mineral fuels ......................................................................................... | 3 | 99.2 | 99.1 | 99.7 | 99.7 | 99.7 | 100.1 | 99.2 | 97.6 | 96.6 | 91.9 | 86.2 |
| Animal and vegetables oils, fats, and waxes | 4 | 122.0 | 129.8 | 164.5 | 145.7 | 147.9 | 142.0 | 144.5 | 114.5 | 101.4 | 90.8 | 84.4 |
| Fixed vegetable oils and fats $(6 / 83=100)$.. | 42 | 129.3 | 133.2 | 176.4 | 159.0 | 156.7 | 152.9 | 164.8 | 128.8 | 108.7 | 95.4 | 95.3 |
| Chemicals (3/83=100) | 5 | 98.6 | 101.4 | 99.7 | 98.3 | 97.7 | 97.0 | 96.8 | 97.1 | 96.6 | 96.5 | 95.4 |
| Organic chemicals $(12 / 83=100)$ | 51 | 100.0 | 100.2 | 101.0 | 97.4 | 94.7 | 93.8 | 96.5 | 97.1 | 95.4 | 93.5 | 89.3 |
| Fertilizers, manufactured ( $3 / 83=100$ ) | 56 | 96.8 | 108.3 | 96.9 | 97.4 | 94.8 | 92.5 | 87.9 | 89.8 | 90.0 | 88.6 | 84.0 |
| Intermediate manufactured products (9/81=100) | - | 100.0 | 101.0 | 101.3 | 102.0 | 100.4 | 99.4 | 99.2 | 99.2 | 99.1 | 100.3 | 101.2 |
| Leather and furskins (9/79 = 100) ........ | 6 | 75.8 | 83.5 | 81.2 | 80.8 | 79.0 | 82.5 | 79.2 | 75.9 | 78.5 | 77.8 | 82.5 |
| Rubber manufactures | 61 | 145.0 | 146.7 | 147.5 | 148.9 | 148.5 | 150.2 | 149.0 | 148.3 | 148.7 | 151.0 | 150.0 |
| Paper and paperboard products ( $6 / 78=100$ ) | 62 | 145.5 | 150.2 | 154.7 | 160.0 | 159.5 | 155.0 | 151.6 | 149.6. | 148.2 | 152.2 | 158.7 |
| Iron and steel ( $3 / 82=100$ ) | 64 | 96.3 | 95.9 | 96.1 | 96.8 | 96.5 | 95.5 | 95.3 | 95.9 | 98.2 | 98.4 | 99.4 |
| Nonferrous metals (9/81 = 100) .......................................................... | - | 93.8 | 94.2 | 92.9 | 90.4 | 82.5 | 79.7 | 79.6 | 79.8 | 78.2 | 80.2 | 79.1 |
| Metal manufactures, n.e.s. $(3 / 82=100)$............................................... | - | 102.1 | 103.1 | 104.5 | 105.1 | 105.0 | 105.4 | 105.2 | 105.4 | 104.4 | 105.3 | 105.5 |
| Machinery and transport equipment, excluding military and commercial aircraft $(12 / 78=100)$ | 67 | 137.0 | 138.5 | 139.4 | 140.1 | 141.5 | 142.3 | 142.9 | 143.1 | 143.3 | 144.0 | 144.1 |
| Power generating machinery and equipment $(12 / 78=100)$ | 68 | 154.4 | 158.4 | 156.9 | 160.6 | 167.5 | 165.3 | 167.4 | 167.1 | 167.5 | 169.1 | 169.2 |
| Machinery specialized for particular industries $(9 / 78=100)$................... | 69 | 151.1 | 152.3 | 152.8 | 153.7 | 153.4 | 155.0 | 155.7 | 156.0 | 156.2 | 155.5 | 154.7 |
| Metalworking machinery ( $6 / 78=100$ ) | 7 | 148.7 | 150.8 | 151.2 | 151.7 | 151.9 | 153.4 | 155.1 | 156.3 | 158.4 | 159.0 | 158.9 |
| General industrial machines and parts n.e.s. $9 / 78=100$ ) | 71 | 145.9 | 148.6 | 149.0 | 149.3 | 150.2 | 152.4 | 152.0 | 152.4 | 152.2 | 152.3 | 153.3 |
| Office machines and automatic data processing equipment ................... | 72 | 102.5 | 101.4 | 101.5 | 99.8 | 101.4 | 100.9 | 100.0 | 99.9 | 99.4 | 99.9 | 99.2 |
| Telecommunications, sound recording and reproducing equipment ......... | 73 | 132.1 | 133.0 | 132.3 | 134.4 | 134.3 | 133.3 | 133.3 | 134.1 | 134.5 | 136.5 | 137.0 |
| Electrical machinery and equipment ...................................................... | 74 | 109.8 | 110.2 | 112.6 | 113.8 | 114.6 | 114.9 | 116.1 | 115.3 | 113.8 | 115.1 | 114.1 |
| Road vehicles and parts ( $3 / 80=100$ ). | 75 | 128.8 | 130.2 | 131.2 | 131.0 | 131.8 | 133.1 | 133.9 | 133.8 | 135.0 | 135.5 | 136.4 |
| Other transport equipment, excl. military and commercial aviation ........ | 76 | 179.3 | 183.1 | 187.7 | 189.6 | 191.7 | 195.5 | 196.6 | 199.3 | 200.7 | 203.3 | 205.6 |
| Other manufactured articles | 77 | 100.2 | 100.6 | 100.4 | 100.7 | 99.3 | 99.5 | 100.4 | 100.3 | 100.3 | 102.6 | 103.4 |
| Apparel (9/83=100) ........................................................................... | 78 | 100.8 | 101.9 | 102.1 | 103.9 | 103.4 | 104.7 | 104.7 | 105.0 | 105.3 | - | - |
| Professional, scientific, and controlling instruments and apparatus ......... | 79 | 171.5 | 171.8 | 172.0 | 175.8 | 171.7 | 175.5 | 178.3 | 178.7 | 178.8 | 182.2 | 183.8 |
| Photographic apparatus and supplies, optical goods, watches and clocks ( $12 / 77=100$ ) | 8 | 132.0 | 132.0 | 131.3 | 132.7 | 130.3 | 128.0 | 129.1 | 127.5 | 128.5 | 131.6 | 132.9 |
| Miscellaneous manufactured articles, n.e.s. ........................................... | 84 | 98.2 | 98.5 | 97.9 | 95.2 | 94.1 | 92.4 | 93.1 | 93.1 | 92.4 | 95.6 | 95.6 |
| Gold, non-monetary (6/83=100) ......................................................... | 971 | 96.2 | 95.8 | 93.5 | 81.7 | 79.5 | 69.1 | 75.4 | 77.4 | 77.5 | 81.8 | 82.2 |

[^36]37. U.S. import price indexes by Standard International Trade Classification
(June $1977=100$, unless otherwise indicated)

| Category | $\begin{aligned} & 1974 \\ & \text { SITC } \end{aligned}$ | 1984 |  |  | 1985 |  |  |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June |
| ALL COMMODITIES (9/82=100) |  | 98.3 | 96.7 | 95.7 | 93.5 | 93.0 | 92.9 | 94.2 | 88.5 | 83.2 |
| Food (9/77 = 100) | 0 | 103.5 | 102.0 | 98.1 | 98.5 | 96.8 | 94.9 | 102.8 | 113.4 | 104.7 |
| Meat | 01 | 133.8 | 135.4 | 132.3 | 130.4 | 118.2 | 120.6 | 131.2 | 122.7 | 118.5 |
| Dairy products and eggs ( $6 / 81=100)$ | 02 | 99.8 | 98.9 | 98.4 | 98.3 | 97.9 | 99.1 | 100.5 | 106.7 | 107.1 |
| Fish ....................................... | 03 | 134.2 | 134.2 | 133.9 | 132.9 | 129.4 | 129.7 | 132.7 | 139.3 | 144.8 |
| Bakery goods, pasta products, grain and grain preparations $(9 / 77=100)$ | 04 | 134.8 | 132.9 | 132.8 | 131.8 | 132.3 | 136.3 | 141.9 | 146.9 | 149.3 |
| Fruits and vegetables ....................................................... | 05 | 135.8 | 135.4 | 117.2 | 127.1 | 129.4 | 120.2 | 131.3 | 119.4 | 119.4 |
| Sugar, sugar preparations, and honey ( $3 / 82=100$ ) | 06 | 120.3 | 119.0 | 118.5 | 118.4 | 122.6 | 123.1 | 111.9 | 124.6 | 121.6 |
| Coffee, tea, cocoa .......................................................... | 07 | 62.4 | 60.3 | 58.4 | 57.0 | 56.0 | 54.4 | 64.6 | 85.9 | 69.2 |
| Beverages and tobacco | 1 | 156.3 | 157.1 | 156.5 | 156.2 | 157.1 | 158.0 | 162.1 | 163.2 | 165.5 |
| Beverages .................... | 11 | 153.6 | 153.5 | 152.8 | 154.2 | 154.3 | 156.0 | 159.1 | 161.8 | 163.9 |
| Crude materials ......................................................... | 2 | 102.6 | 100.6 | 98.9 | 94.0 | 93.6 | 91.5 | 91.2 | 94.2 | 95.3 |
| Crude rubber (inc. synthetic \& reclaimed) $(3 / 84=100)$ | 23 | 93.7 | 90.7 | 83.8 | 77.6 | 76.4 | 68.9 | 73.2 | 78.8 | 75.5 |
| Wood (9/81 = 100) | 24 | 103.2 | 99.6 | 104.0 | 100.7 | 106.9 | 101.6 | 99.4 | 104.3 | 106.3 |
| Pulp and waste paper ( $12 / 81=100)$ | 25 | 96.1 | 96.3 | 93.2 | 84.0 | 80.4 | 76.8 | 75.8 | 74.9 | 79.9 |
| Crude fertilizers and crude minerals ( $12 / 83=100$ ) | 27 | 96.2 | 98.0 | 98.6 | 100.3 | 101.7 | 102.7 | 102.1 | 101.5 | 100.0 |
| Metalliferous ores and metal scrap (3/84=100) ................................... | 28 | 102.8 | 100.1 | 95.6 | 90.4 | 87.6 | 89.5 | 90.1 | 94.5 | 95.6 |
| Crude vegetable and animal materials, n.e.s. .... | 29 | 100.8 | 101.1 | 106.4 | 104.3 | 104.9 | 102.5 | 102.5 | 103.6 | 104.4 |
| Fuels and related products $(6 / 82=100)$ | 3 | 88.0 | 86.9 | 85.2 | 82.9 | 80.9 | 79.8 | 79.1 | 55.3 | 37.4 |
| Petroleum and petroleum products $(6 / 82=100)$ | 33 | 88.1 | 87.0 | 85.2 | 83.8 | 81.6 | 80.3 | 80.1 | 54.7 | 36.1 |
| Fats and oils (9/83 $=100$ ) | 4 | 141.8 | 124.4 | 114.9 | 89.9 | 76.7 | 57.6 | 50.6 | 41.4 | 39.3 |
| Vegetable oils $(9 / 83=100)$................................................................. | 42 | 143.1 | 125.3 | 115.3 | 89.5 | 75.9 | 56.2 | 48.9 | 39.3 | 37.4 |
| Chemicals (9/82 = 100) ......................................................................... | 5 | 100.6 | 98.8 | 97.1 | 95.7 | 94.9 | 94.5 | 94.2 | 94.6 | 93.3 |
| Medicinal and pharmaceutical products (3/84=100) ............................ | 54 | 98.5 | 96.4 | 94.6 | 91.6 | 95.1 | 95.3 | 96.7 | 102.9 | 104.9 |
| Manufactured fertilizers ( $3 / 84=100$ ) ................................................... | 56 | 101.7 | 98.5 | 92.9 | 94.2 | 82.0 | 80.8 | 78.5 | 79.2 | 79.7 |
| Chemical materials and products, n.e.s. $(9 / 84=100)$............................. | 59 | - | 100.0 | 97.5 | 96.1 | 95.6 | 96.9 | 97.8 | 99.9 | 100.2 |
| Intermediate manufactured products (12/77 = 100) | 6 | 139.6 | 137.2 | 136.8 | 133.1 | 132.4 | 133.6 | 133.4 | 134.0 | 135.6 |
| Leather and furskins | 61 | 145.3 | 144.0 | 140.4 | 135.3 | 133.3 | 137.0 | 141.3 | 141.6 | 143.0 |
| Rubber manufactures, n.e.s. | 62 | 140.8 | 139.6 | 140.5 | 139.5 | 138.6 | 137.3 | 138.1 | 136.5 | 137.7 |
| Cork and wood manufactures | 63 | 131.0 | 126.4 | 126.1 | 121.3 | 121.2 | 123.4 | 124.0 | 130.8 | 134.3 |
| Paper and paperboard products | 64 | 150.4 | 156.1 | 157.5 | 157.6 | 157.2 | 157.8 | 156.5 | 157.1 | 157.1 |
| Textiles ............................... | 65 | 130.1 | 131.6 | 132.9 | 130.4 | 127.5 | 126.5 | 128.1 | 131.2 | 132.9 |
| Nonmetallic mineral manufactures, n.e.s. | 66 | 166.6 | 156.6 | 159.4 | 154.3 | 151.8 | 157.6 | 162.3 | 164.2 | 169.6 |
| Iron and steel (9/78=100) | 67 | 123.8 | 124.7 | 123.7 | 121.0 | 120.1 | 119.1 | 118.3 | 117.3 | 118.1 |
| Nonferrous metals ( $12 / 81=100$ ) | 68 | 96.3 | 90.2 | 87.3 | 81.9 | 82.3 | 83.7 | 80.4 | 79.4 | 78.9 |
| Metal manufactures, n.e.s. ....... | 69 | 120.5 | 119.3 | 119.3 | 117.4 | 117.8 | 119.5 | 121.6 | 124.4 | 127.8 |
| Machinery and transport equipment (6/81=100) ............................... | 7 | 104.1 | 102.6 | 102.9 | 101.6 | 102.6 | 103.5 | 107.2 | 111.5 | 115.3 |
| Machinery specialized for particular industries (9/78=100) ................... | 72 | 100.0 | 98.8 | 98.0 | 96.2 | 97.0 | 101.4 | 104.9 | 112.1 | 115.4 |
| Metalworking machinery $(3 / 80=100)$................................................ | 73 | 93.8 | 92.1 | 89.9 | 86.3 | 90.5 | 94.2 | 98.1 | 105.0 | 107.7 |
| General industrial machinery and parts, n.e.s. $(6 / 81=100)$.................... | 74 | 94.4 | 92.4 | 91.3 | 89.2 | 91.1 | 94.3 | 98.0 | 103.8 | 109.0 |
| Office machines and automatic data processing equipment $(3 / 80=100)$ | 75 | 96.7 | 94.1 | 92.2 | 89.6 | 89.4 | 90.3 | 93.7 | 96.9 | 100.8 |
| Telecommunications, sound recording and reproducing apparatus $(3 / 80=100)$ | 76 | 94.8 | 93.6 | 91.3 | 90.0 | 88.8 | 88.3 | 88.6 | 89.4 | 91.6 |
| Electrical machinery and equipment ( $12 / 81=100$ ) ................................ | 77 | 91.2 | 87.0 | 86.4 | 82.1 | 83.9 | 81.4 | 83.1 | 84.5 | 87.4 |
| Road vehicles and parts (6/81=100) .................................................. | 78 | 110.4 | 109.8 | 111.3 | 111.5 | 112.1 | 112.7 | 117.8 | 123.4 | 127.1 |
| Misc. manufactured articles ( $3 / 80=100$ ) .............................................. | 8 | 101.5 | 99.7 | 100.0 | 97.0 | 98.0 | 99.6 | 100.8 | 103.3 | 104.8 |
| Plumbing, heating, and lighting fixtures ( $6 / 80=100$ ) ............................. | 81 | 112.0 | 110.7 | 111.6 | 113.9 | 114.1 | 117.8 | 115.0 | 120.1 | 123.5 |
| Furniture and parts ( $6 / 80=100$ ) .............................. | 82 | 140.8 | 138.4 | 142.5 | 137.4 | 136.7 | 142.1 | 142.7 | 147.0 | 142.2 |
| Clothing (9/77 = 100) ................. | 84 | 132.5 | 135.4 | 138.5 | 136.7 | 133.9 | 134.5 | 134.5 | 133.4 | 135.3 |
| Footwear ............................................................................... | 85 | 140.8 | 138.4 | 142.5 | 137.4 | 136.7 | 142.1 | 142.7 | 147.0 | 142.2 |
| Professional, scientific, and controlling instruments and apparatus $(12 / 79=100)$ $\qquad$ | 87 | 97.8 | 95.6 | 92.9 | 89.2 | 92.3 | 98.8 | 102.4 | 106.4 | 112.5 |
| Photographic apparatus and supplies, optical goods, watches, and clocks $(3 / 80=100)$ | 88 | 92.8 | 91.2 | 91.3 | 88.9 | 89.5 | 91.1 | 94.5 | 99.3 | 103.7 |
|  | 89 | 104.0 | 98.3 | 96.3 | 91.2 | 95.2 | 96.4 | 97.9 | 102.1 | 103.4 |
| Gold, non-monetary (6/82 = 100) ......................................................... | 971 | - | - | - | - | - | - | - | - | - |

[^37]MONTHLY LABOR REVIEW November 1986 - Current Labor Statistics: Price Data
38. U.S. export price indexes by end-use category
(September $1983=100$ unless otherwise indicated)

| Category | Percentage of 1980 trade value | 1984 |  |  | 1985 |  |  |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June |
| Foods, feeds, and beverages .................................................... | 16.294 | 98.5 | 88.8 | 83.0 | 81.5 | 80.9 | 76.2 | 77.5 | 75.5 | 74.7 |
| Raw materials ................................................................................................................... | 30.696 | 102.5 | 100.5 | 99.1 | 97.6 | 97.2 | 96.5 | 95.9 | 96.0 | 94.8 |
| Raw materials, nondurable | 21.327 | 104.4 | 102.8 | 101.4 | 99.6 | 99.5 | 98.7 | 97.9 | 97.5 | 96.0 |
| Raw materials, durable ............................................................. | 9.368 | 97.7 | 95.0 | 93.3 | 92.6 | 91.6 | 91.1 | 91.0 | 92.5 | 91.9 |
| Capital goods ( $12 / 82=100$ ) ..................................................... | 30.186 | 103.9 | 104.6 | 105.6 | 106.2 | 106.6 | 106.6 | 106.6 | 107.4 | 107.5 |
| Automotive vehicles, parts and engines (12/82=100) ................ | 7.483 | 105.3 | 105.3 | 105.7 | 106.7 | 108.0 | 108.1 | 109.2 | 109.5 | 110.4 |
| Consumer goods ...................................................................... | 7.467 | 100.9 | 101.3 | 100.8 | 100.9 | 101.1 | 101.9 | 101.4 | 103.7 | 104.5 |
| Durables ............................................................................... | 3.965 | 99.6 | 99.4 | 99.3 | 99.1 | 99.2 | 100.4 | 99.5 | 101.8 | 101.8 |
| Nondurables ........................................................................... | 3.501 | 102.1 | 103.0 | 102.3 | 102.7 | 103.0 | 103.3 | 103.3 | 105.5 | 107.2 |

39. U.S. import price indexes by end-use category
(December $1982=100$ )

| Category | Percentage of 1980 trade value | 1984 |  |  | 1985 |  |  |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June |
| Foods, feeds, and beverages | 7.477 | 107.2 | 105.6 | 101.8 | 102.1 | 100.4 | 99.0 | 106.0 | 115.8 | 108.2 |
| Petroleum and petroleum products, excl. natural gas .................. | 31.108 | 88.5 | 87.5 | 85.7 | 84.4 | 82.1 | 80.9 | 80.5 | 55.4 | 36.7 |
| Raw materials, excluding petroleum .......................................... | 19.205 | 104.3 | 102.5 | 101.1 | 96.3 | 95.8 | 95.4 | 93.9 | 94.5 | 94.0 |
| Raw materials, nondurable ..................................................... | 9.391 | 102.1 | 101.7 | 100.7 | 95.0 | 93.9 | 93.5 | 91.8 | 91.1 | 89.7 |
| Raw materials, durable ............................................................ | 9.814 | 106.7 | 103.3 | 101.6 | 97.7 | 97.8 | 97.4 | 96.2 | 98.1 | 98.7 |
| Capital goods ........................................................................... | 13.164 | 99.8 | 98.0 | 97.8 | 94.8 | 96.3 | 97.6 | 100.0 | 102.8 | 106.6 |
| Automotive vehicles, parts and engines ..................................... | 11.750 | 104.9 | 104.0 | 105.2 | 105.4 | 105.9 | 106.4 | 111.4 | 115.6 | 119.0 |
| Consumer goods .................................................................................................. | 14.250 | 101.9 | 100.6 | 101.1 | 99.5 | 99.4 | 101.0 | 102.4 | 104.5 | 106.6 |
| Durable .................................................................................. | 5.507 | 101.4 | 98.8 | 98.5 | 97.0 | 97.0 | 98.9 | 100.7 | 103.4 | 106.6 |
| Nondurable ............................................................................ | 8.743 | 102.5 | 103.0 | 104.6 | 103.0 | 102.5 | 103.9 | 104.7 | 106.0 | 106.6 |

40. U.S. export price indexes by Standard Industrial Classification ${ }^{\prime}$

| Industry group | 1984 |  |  | 1985 |  |  |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June |
| Manufacturing: | 112.7 | 105.6 | 103.3 | 99.5 | 99.5 | 96.7 | 98.1 | 97.0 | 95.0 |
| Food and kindred products ( $6 / 83=100$ ) |  |  |  |  |  |  |  |  |  |
| Lumber and wood products, except furniture $(6 / 83=100)$ | 100.1 | 97.0 | 97.9 | 99.9 | 99.5 | 98.3 | 101.2 | 101.5 | 101.2 |
| Furniture and fixtures (9/83 $=100$ ) ....... | 103.1 | 103.5 | 104.9 | 105.2 | 106.5 | 107.1 | 108.4 | 109.2 | 109.7 |
| Paper and allied products ( $3 / 81=100$ ) .. | 104.3 | 106.2 | 103.6 | 97.1 | 94.7 | 93.2 | 92.1 | 95.7 | 101.6 |
| Chemicals and allied products ( $12 / 84=100$ ) ...................... | 102.3 | 101.3 | 100.7 | 100.3 | 99.6 | 99.7 | 99.2 | 98.9 | 98.3 |
| Petroleum and coal products ( $12 / 83=100$ ) ..................... | 102.1 | 100.7 | 100.4 | 101.3 | 102.7 | 102.0 | 99.1 | 93.5 | 83.1 |
| Primary metal products ( $3 / 82=100$ ) .... | 104.0 | 100.0 | 95.8 | 91.2 | 92.7 | 93.6 | 93.6 | 96.4 | 96.6 |
| Machinery, except electrical ( $9 / 78=100$ ) .. | 137.9 | 138.0 | 139.9 | 140.4 | 140.5 | 140.6 | 140.5 | 140.6 | 140.3 |
| Electrical machinery ( $12 / 80=100$ ) ..... | 109.5 | 110.7 | 111.1 | 111.3 | 112.4 | 111.9 | 111.2 | 112.6 | 112.2 |
| Transportation equipment ( $12 / 78=100$ ) ...... | 157.2 | 157.8 | 158.9 | 160.5 | 161.9 | 162.8 | 164.3 | 165.2 | 166.9 |
| Scientific instruments; optical goods; clocks $(6 / 77=100)$ | 153.2 | 156.0 | 153.0 | 154.9 | 156.6 | 156.2 | 156.7 | 159.7 | 161.2 |

1 SIC - based classification.
41. U.S. import price indexes by Standard Industrial Classification ${ }^{\prime}$

| Industry group | 1984 |  |  | 1985 |  |  |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June |
| Manufacturing: |  |  |  |  |  |  |  |  |  |
| Food and kindred products ( $6 / 77=100$ ) | 126.6 | 124.1 | 122.6 | 118.8 | 115.0 | 114.2 | 115.1 | 117.7 | 115.6 |
| Textile mill products (9/82 $=100$ ) . | 103.8 | 104.3 | 104.7 | 102.8 | 101.0 | 100.4 | 101.8 | 104.7 | 106.4 |
| Apparel and related products ( $6 / 77=100$ ) | 129.6 | 133.9 | 138.2 | 135.6 | 133.0 | 133.9 | 134.4 | 133.4 | 135.1 |
| Lumber and wood products, except furniture $(6 / 77=100)$ | 121.1 | 117.3 | 120.0 |  |  | 117.5 | 115.8 | 122.1 | 124.8 |
| Furniture and fixtures ( $6 / 80=100$ ) ...................... | 96.9 | 96.2 | 95.6 | 116.3 93.9 | 120.6 96.1 | 117.5 97.7 | 115.8 98.2 | 122.1 101.2 | 124.8 103.5 |
| Paper and allied products ( $6 / 77=100$ ) | 141.9 | 146.0 | 145.5 | 141.5 | 139.8 | 138.7 | 137.4 | 137.6 | 139.4 |
| Chemicals and allied products (9/82=100) | 101.8 | 99.8 | 98.2 | 95.3 | 93.9 | 93.3 | 95.8 | 98.6 | 102.1 |
| Rubber and miscellaneous plastic products $(12 / 80=100)$ | 98.5 | 97.8 | 98.0 | 96.9 | 96.7 | 96.6 | 97.5 | 100.9 | 100.6 |
| Leather and leather products | 143.7 | 141.6 | 144.2 | 139.1 | 138.9 | 142.3 | 144.0 | 145.8 | 144.6 |
| Primary metal products ( $6 / 81=100)$ | 91.9 | 88.3 | 86.6 | 82.2 | 83.0 | 83.4 | 81.9 | 82.0 | 82.4 |
| Fabricated metal products ( $12 / 84=100$ ) |  | - | 100.0 | 99.0 | 99.1 | 101.0 | 102.6 | 104.9 | 108.5 |
| Machinery, except electrical ( $3 / 80=100$ ). | 97.1 | 95.5 | 94.1 | 91.8 | 93.4 | 96.6 | 100.0 | 105.5 | 108.9 |
| Electrical machinery (9/84=100) .... | - | 100.0 | 98.6 | 95.1 | 95.8 | 94.5 | 95.8 | 97.0 | 100.2 |
| Transportation equipment ( $6 / 81=100)$ | 111.6 | 110.7 | 112.9 | 113.1 | 114.2 | 114.8 | 119.6 | 123.9 | 128.0 |
| Scientific instruments; optical goods; clocks $(12 / 79=100)$ | 95.5 | 94.4 | 93.2 | 90.7 | 91.7 | 94.6 | 98.8 | 103.9 |  |
| Miscellaneous manufactured commodities |  |  |  |  |  |  |  | 103.9 | 109.5 |
| $(9 / 82=100)$ | 99.1 | 95.8 | 96.4 | 95.1 | 95.1 | 96.6 | 98.7 | 99.9 | 101.7 |

SIC - based classification.

- Data not available.

42. Indexes of productivity, hourly compensation, and unit costs, quarterly data seasonally adjusted $(1977=100)$

| Item | Annual average | Quarterly Indexes |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1983 | 1984 |  |  |  | 1985 |  |  |  | 1986 |  |
|  |  | IV | 1 | 11 | III | IV | 1 | II | III | IV | 1 | II |
| Business: |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons | 105.3 | 103.8 | 104.9 | 105.6 | 105.5 | 105.5 | 105.7 | 106.4 | 107.3 | 106.4 | 107.3 | 107.2 |
| Compensation per hour ........... | 168.1 | 163.6 | 165.9 | 167.1 | 169.0 | 170.6 | 172.3 | 174.5 | 176.4 | 178.0 | 179.1 | 180.4 |
| Real compensation per hour | 98.1 | 98.0 | 98.1 | 97.9 | 98.1 | 98.2 | 98.4 | 98.7 | 99.1 | 99.0 | 99.2 | 100.3 |
| Unit labor costs ........ | 159.7 | 157.7 | 158.2 | 158.3 | 160.2 | 161.7 | 163.1 | 164.0 | 164.4 | 167.3 | 167.0 | 168.2 |
| Unit nonlabor payments | 156.3 | 150.6 | 154.1 | 156.7 | 157.0 | 157.7 | 158.3 | 160.0 | 161.4 | 159.6 | 162.2 | 161.9 |
| Implicit price deflator .......................................... | 158.5 | 155.2 | 156.7 | 157.7 | 159.0 | 160.3 | 161.4 | 162.6 | 163.4 | 164.6 | 165.3 | 166.0 |
| Nonfarm business: |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons | 104.3 | 103.3 | 103.9 | 104.6 | 104.4 | 104.3 | 104.4 | 104.9 | 105.4 | 104.5 | 105.6 | 105.5 |
| Compensation per hour .......... | 167.9 | 163.4 | 165.6 | 166.9 | 168.7 | 170.4 | 172.1 | 174.0 | 175.4 | 177.0 | 178.3 | 179.3 |
| Real compensation per hour ............................... | 98.0 | 97.9 | 97.9 | 97.8 | 98.0 | 98.1 | 98.2 | 98.4 | 98.5 | 98.4 | 98.8 | 99.7 |
| Unit labor costs ................................................. | 161.0 | 158.2 | 159.4 | 159.5 | 161.5 | 163.3 | 164.8 | 165.9 | 166.3 | 169.3 | 168.8 | 170.0 |
| Unit nonlabor payments ....................................... | 156.1 | 152.3 | 153.2 | 156.4 | 157.2 | 157.9 | 158.9 | 160.8 | 163.0 | 160.3 | 163.9 | 163.5 |
| Implicit price deflator ........................................... | 159.3 | 156.2 | 157.2 | 158.4 | 160.0 | 161.4 | 162.7 | 164.1 | 165.2 | 166.2 | 167.1 | 167.7 |
| Nonfinancial corporations: |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all employees | 105.6 | 104.5 | 105.3 | 105.9 | 105.5 | 105.8 | 106.0 | 106.5 | 107.8 | 107.0 | 106.9 | 106.3 |
| Compensation per hour ....................................... | 165.9 | 161.7 | 163.6 | 164.8 | 166.6 | 168.3 | 169.9 | 171.6 | 173.1 | 174.5 | 175.4 | 176.0 |
| Real compensation per hour ............................... | 96.8 | 96.8 | 96.8 | 96.6 | 96.7 | 96.8 | 97.0 | 97.0 | 97.2 | 97.0 | 97.1 | 97.9 |
| Total unit costs .................................................. | 161.5 | 159.0 | 159.4 | 160.1 | 162.6 | 163.8 | 164.9 | 165.8 | 165.0 | 167.2 | 168.3 | 169.4 |
| Unit labor costs | 157.0 | 154.8 | 155.4 | 155.7 | 157.9 | 159.1 | 160.3 | 161.1 | 160.5 | 163.0 | 164.0 | 165.6 |
| Unit nonlabor costs ........................................... | 174.6 | 171.4 | 171.1 | 173.1 | 176.4 | 177.5 | 178.5 | 179.8 | 178.3 | 179.8 | 181.1 | 180.9 |
| Unit profits .......................................................... | 133.4 | 128.6 | 134.4 | 138.5 | 130.3 | 130.5 | 129.3 | 130.2 | 141.7 | 131.2 | 131.7 | 128.4 |
| Unit nonlabor payments ....................................... | 160.1 | 156.4 | 158.3 | 161.0 | 160.3 | 161.0 | 161.3 | 162.5 | 165.5 | 162.8 | 163.8 | 162.5 |
| Implicit price deflator .......................................... | 158.1 | 155.3 | 156.4 | 157.5 | 158.7 | 159.8 | 160.6 | 161.6 | 162.2 | 162.9 | 164.0 | 164.5 |
| Manufacturing: |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons ............................ | 116.6 | 113.3 | 114.7 | 115.7 | 117.8 | 118.2 | 119.3 | 121.7 | 123.0 | 122.9 | 123.4 | 124.0 |
| Compensation per hour ...................................... | 168.2 | 163.6 | 165.4 | 166.8 | 169.1 | 171.5 | 173.8 | 175.6 | 178.1 | 179.3 | 180.2 | 181.4 |
| Real compensation per hour ............................... | 98.1 | 97.9 | 97.8 | 97.8 | 98.2 | 98.7 | 99.2 | 99.3 | 100.0 | 99.7 | 99.8 | 100.9 |
| Unit labor costs ................................................. | 144.2 | 144.3 | 144.1 | 144.2 | 143.5 | 145.1 | 145.7 | 144.3 | 144.8 | 145.8 | 146.1 | 146.2 |

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43. Annual indexes of multifactor productivity and related measures, selected years
$(1977=100)$

| Item | 1960 | 1970 | 1973 | 1974 | 1976 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Private business |  |  |  |  |  |  |  |  |  |  |  |  |
| Productivity: |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons | 67.3 | 88.4 | 95.9 | 93.8 | 98.4 | 100.8 | 99.5 | 99.2 | 100.6 | 100.3 | 103.0 | 105.4 |
| Output per unit of capital services ..................... | 102.4 | 102.0 | 105.3 | 98.8 | 97.2 | 102.0 | 99.8 | 94.2 | 92.4 | 86.6 | 88.3 | 92.4 |
| Multifactor productivity ..................................... | 78.2 | 92.9 | 99.1 | 95.6 | 98.0 | 101.2 | 99.7 | 97.4 | 97.7 | 95.2 | 97.6 | 100.6 |
| Output ................................................................ | 55.3 | 80.2 | 93.0 | 91.2 | 94.5 | 105.8 | 107.9 | 106.6 | 108.9 | 105.4 | 109.9 | 118.9 |
| Inputs: |  |  |  |  |  |  |  |  |  |  |  |  |
| Hours of all persons ......................................... | 82.2 | 90.8 | 96.9 | 97.2 | 96.1 | 105.0 | 108.4 | 107.5 | 108.2 | 105.2 | 106.7 | 112.8 |
| Capital services .............................................. | 54.0 | 78.7 | 88.3 | 92.4 | 97.2 | 103.8 | 108.0 | 113.1 | 117.8 | 121.7 | 124.4 | 128.7 |
| Combined units of labor and capital input .......... | 70.7 | 86.3 | 93.8 | 95.5 | 96.5 | 104.5 | 108.2 | 109.4 | 111.5 | 110.7 | 112.6 | 118.1 |
| Capital per hour of all persons ............................ | 65.7 | 86.7 | 91.1 | 95.0 | 101.2 | 98.8 | 99.7 | 105.3 | 108.8 | 115.7 | 116.7 | 114.1 |
| Private nonfarm business |  |  |  |  |  |  |  |  |  |  |  |  |
| Productivity: |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons .......................... | 70.7 | 89.2 | 96.4 | 94.3 | 98.5 | 100.8 | 99.2 | 98.7 | 99.6 | 99.1 | 102.4 | - 104.3 |
| Output per unit of capital services ..................... | 103.7 | 102.8 | 106.0 | 99.2 | 97.3 | 101.9 | 99.0 | 93.4 | 91.1 | 85.1 | 87.3 | 90.9 |
| Multifactor productivity ....................................... | 80.9 | 93.7 | 99.6 | 96.0 | 98.1 | 101.2 | 99.1 | 96.9 | 96.7 | 94.1 | 97.0 | 99.6 |
| Output ................................................................ | 54.4 | 79.9 | 92.9 | 91.1 | 94.4 | 106.0 | 107.9 | 106.6 | 108.4 | 104.8 | 110.0 | 118.9 |
| Inputs: |  |  |  |  |  |  |  |  |  |  |  |  |
| Hours of all persons ......................................... | 77.0 | 89.6 | 96.3 | 96.6 | 95.8 | 105.1 | 108.8 | 108.0 | 108.8 | 105.7 | 107.4 | 114.0 |
| Capital services .............................................. | 52.5 | 77.7 | 87.6 | 91.9 | 97.0 | 104.0 | 109.0 | 114.1 | 119.0 | 123.2 | 126.1 | 130.8 |
| Combined units of labor and capital input ......... | 67.3 | 85.3 | 93.3 | 95.0 | 96.2 | 104.7 | 108.9 | 110.0 | 112.2 | 111.4 | 113.5 | 119.4 |
| Capital per hour of all persons ............................ | 68.2 | 86.8 | 91.0 | 95.1 | 101.3 | 98.9 | 100.1 | 105.6 | 109.4 | 116.5 | 117.4 | 114.7 |
| Manufacturing |  |  |  |  |  |  |  |  |  |  |  |  |
| Productivity: |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons .......................... | 62.2 | 80.8 | 93.4 | 90.6 | 97.1 | 101.5 | 101.4 | 101.4 | 103.6 | 105.9 | 112.0 | 116.6 |
| Output per unit of capital services .................... | 102.5 | 98.6 | 111.4 | 101.2 | 96.2 | 102.1 | 99.7 | 91.2 | 89.2 | 81.8 | 86.9 | 94.4 |
| Multifactor productivity ..................................... | 71.9 | 85.2 | 97.9 | 93.3 | 96.8 | 101.7 | 101.0 | 98.7 | 99.8 | 99.2 | 105.1 | 110.7 |
| Output ................................................................ | 52.5 | 78.6 | 96.3 | 91.7 | 93.1 | 106.0 | 108.1 | 103.2 | 104.8 | 98.4 | 104.7 | 116.0 |
| Inputs: |  |  |  |  |  |  |  |  |  |  |  |  |
| Hours of all persons ........................................ | 84.4 | 97.3 | 103.1 | 101.2 | 95.9 | 104.4 | 106.5 | 101.7 | 101.1 | 92.9 | 93.5 | 99.5 |
| Capital services ............................................... | 51.2 | 79.7 | 86.4 | 90.6 | 96.7 | 103.7 | 108.4 | 113.1 | 117.5 | 120.3 | 120.6 | 122.9 |
| Combined units of labor and capital inputs ........ | 73.0 | 92.2 | 98.4 | 98.3 | 96.1 | 104.2 | 107.0 | 104.5 | 105.0 | 99.2 | 99.7 | 104.8 |
| Capital per hour of all persons ............................ | 60.7 | 82.0 | 83.8 | 89.5 | 100.9 | 99.4 | 101.7 | 111.2 | 116.2 | 129.4 | 129.0 | 123.6 |

44. Annual indexes of productivity, hourly compensation, unit costs, and prices, selected years

45. Unemployment rates in nine countries, quarterly data seasonally adjusted

| Country | Annual average |  | $\begin{gathered} 1984 \\ \hline \text { IV } \\ \hline \end{gathered}$ | 1985 |  |  |  | 1986 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1984 | 1985 |  | 1 | II | III | IV | 1 | II |
| Total labor force basis |  |  |  |  |  |  |  |  |  |
| United States ................................... | 7.4 | 7.1 | 7.1 | 7.2 | 7.2 | 7.1 | 6.9 | 7.0 | 7.1 |
| Canada ........................................... | 11.2 | 10.4 | 11.1 | 11.0 | 10.5 | 10.2 | 10.1 | 9.7 | 9.5 |
| Australia .......................................... | 8.9 | 8.2 | 8.6 | 8.5 | 8.4 | 8.1 | 7.8 | 7.9 | - |
| Japan .............................................. | 2.7 | 2.6 | 2.7 | 2.6 | 2.5 | 2.6 | 2.9 | 2.6 | 2.8 |
| France ............................................ | 9.7 | 10.1 | 10.0 | 10.2 | 10.1 | 10.2 | 9.9 | 10.0 | 10.3 |
| Germany | 7.6 | 7.7 | 7.7 | 7.7 | 7.8 | 7.7 | 7.7 | 7.6 | 7.5 |
| Great Britain .................................... | 12.8 | 13.0 | 12.8 | 12.9 | 13.0 | 13.2 | 12.8 | 13.0 | 13.1 |
| Italy ${ }^{\text {, } 2}$-........................................... | 5.8 | 5.9 | 5.7 | 5.8 | 5.7 | 5.9 | 6.2 | 6.2 | 6.3 |
| Sweden .......................................... | 3.1 | 2.8 | 3.0 | 3.0 | 2.9 | 2.7 | 2.7 | 2.8 | 2.6 |
| Civilian labor force basis |  |  |  |  |  |  |  |  |  |
| United States | 7.5 | 7.2 | 7.2 | 7.3 | 7.3 | 7.2 | 7.0 | 7.1 | 7.2 |
| Canada .......... | 11.3 | 10.5 | 11.1 | 11.1 | 10.6 | 10.2 | 10.1 | 9.7 | 9.6 |
| Australia | 9.0 | 8.3 | 8.6 | 8.6 | 8.5 | 8.2 | 7.9 | 8.0 | - |
| Japan .............................................. | 2.8 | 2.6 | 2.7 | 2.6 | 2.6 | 2.7 | 2.9 | 2.7 | 2.8 |
| France | 9.9 | 10.4 | 10.3 | 10.5 | 10.4 | 10.4 | 10.1 | 10.3 | 10.5 |
| Germany .......................................... | 7.8 | 7.9 | 7.8 | 7.9 | 7.9 | 7.9 | 7.8 | 7.8 | 7.6 |
| Great Britain .................................... | 12.9 | 13.1 | 13.0 | 13.1 | 13.2 | 13.4 | 13.0 | 13.1 | 13.3 |
| Italy ................................................. | 5.9 | 6.0 | 5.8 | 5.9 | 5.8 | 6.0 | 6.3 | 6.3 | 6.5 |
| Sweden ........................................... | 3.1 | 2.8 | 3.0 | 3.0 | 2.9 | 2.8 | 2.7 | 2.8 | 2.6 |

Quarterly rates are for the first month of the quarter Major changes in the Italian labor force survey introduced in 1977, resulted in a large increase in persons enumerated as unemployed. However, many persons
reported that they had not actively sought work in the past 30 days, and they have been provisionally excluded for comparability with U.S. concepts. Inclusion of such persons would more than double the Italian unemployment rate
shown.

- Data not available.

NOTE: Quarterly figures for France, Germany, and Great Britain are calculated by applying annual adjustment factors to current published data and therefore should be viewed as less precise indicators of unemployment under U.S. concepts than the annual figures.

MONTHLY LABOR REVIEW November 1986 - Current Labor Statistics: International Comparisons Data

## 46. Annual data: Employment status of the civilian working-age population, ten countries

(Numbers in thousands)

| Employment status and country | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Labor force |  |  |  |  |  |  |  |  |  |  |
| United States | 96,158 | 99,009 | 102,251 | 104,962 | 106,940 | 108,670 | 110,204 | 111,550 | 113,544 | 115,461 |
| Canada | 10,203 | 10,500 | 10,895 | 11,231 | 11,573 | 11,904 | 11,958 | 12,183 | 12,399 | 12,639 |
| Australia | 6,244 | 6,358 | 6,443 | 6,519 | 6,693 | 6,810 | 6,910 | 6,997 | 7,133 | 7,272 |
| Japan | 53,100 | 53,820 | 54,610 | 55,210 | 55,740 | 56,320 | 56,980 | 58,110 | 58,480 | 58,820 |
| France | 22,000 | 22,300 | 22,470 | 22,670 | 22,790 | 22,930 | 23,150 | 23,130 | 23,290 | 23,330 |
| Germany | 25,900 | 25,870 | 26,000 | 26,250 | 26,520 | 26,650 | 26,710 | 26,740 | 26,880 | 27,090 |
| Great Britain | 25,290 | 25,430 | 25,620 | 25,710 | 25,870 | 25,870 | 25,880 | 26,010 | 26,530 | 26,960 |
| Italy | 20,300 | 20,530 | 20,630 | 20,910 | 21,210 | 21,410 | 21,450 | 21,610 | 21,680 | 21,800 |
| Netherlands | 4,890 | 4,950 | 5,010 | 5,100 | 5,290 | 5,500 | 5,560 | 5,720 | 5,740 | 5,690 |
| Sweden .............................................................. | 4,149 | 4,168 | 4,203 | 4,262 | 4,312 | 4,326 | 4,350 | 4,369 | 4,385 | 4,418 |
| Participation rate |  |  |  |  |  |  |  |  |  |  |
| United States | 61.6 | 62.3 | 63.2 | 63.7 | 63.8 | 63.9 | 64.0 | 64.0 | 64.4 | 64.8 |
| Canada | 61.1 | 61.6 | 62.7 | 63.4 | 64.1 | 64.8 | 64.1 | 64.4 | 64.8 | 65.2 |
| Australia | 62.7 | 62.7 | 62.0 | 61.7 | 62.2 | 62.0 | 61.8 | 61.5 | 61.5 | 61.8 |
| Japan ................................................................ | 62.4 | 62.5 | 62.8 | 62.7 | 62.6 | 62.6 | 62.7 | 63.1 | 62.7 | 62.3 |
| France | 57.3 | 57.6 | 57.5 | 57.5 | 57.2 | 57.1 | 57.1 | 56.6 | 56.6 | 56.4 |
| Germany | 53.8 | 53.4 | 53.3 | 53.3 | 53.2 | 52.9 | 52.7 | 52.5 | 52.6 | 53.2 |
| Great Britain | 63.2 | 63.2 | 63.3 | 63.2 | 63.2 | 62.2 | 61.9 | 61.9 | 62.7 | 63.6 |
| Italy | 47.8 | 48.0 | 47.7 | 47.8 | 48.0 | 48.0 | 47.4 | 47.2 | 47.3 | 47.2 |
| Netherlands | 49.1 | 49.0 | 48.8 | 49.0 | 50.0 | 51.3 | 51.2 | 52.1 | 52.0 | 51.2 |
| Sweden ............................................................ | 66.0 | 65.9 | 66.1 | 66.6 | 67.0 | 66.8 | 66.8 | 66.7 | 66.8 | 67.2 |
| Employed |  |  |  |  |  |  |  |  |  |  |
| United States | 88,752 | 92,017 | 96,048 | 98,824 | 99,303 | 100,397 | 99,526 | 100,834 | 105,005 | 107,150 |
| Canada | 9,477 | 9,651 | 9,987 | 10,395 | 10,708 | 11,006 | 10,644 | 10,734 | 11,000 | 11,311 |
| Australia | 5,946 | 6,000 | 6,038 | 6,111 | 6,284 | 6,416 | 6,415 | 6,300 | 6,490 | 6,670 |
| Japan. | 52,020 | 52,720 | 53,370 | 54,040 | 54,600 | 55,060 | 55,620 | 56,550 | 56,870 | 57,260 |
| France ............................................................... | 21,010 | 21,180 | 21,260 | 21,300 | 21,320 | 21,200 | 21,230 | 21,170 | 20,980 | 20,910 |
| Germany ........................................................... | 25,010 | 24,970 | 25,130 | 25,470 | 25,750 | 25,560 | 25,130 | 24,750 | 24,790 | 24,960 |
| Great Britain | 23,810 | 23,840 | 24,040 | 24,360 | 24,100 | 23,190 | 22,820 | 22,680 | 23,100 | 23,420 |
| Italy.. | 19,600 | 19,800 | 19,870 | 20,100 | 20,380 | 20,480 | 20,430 | 20,470 | 20,390 | 20,490 |
| Netherlands | 4,630 | 4,700 | 4,750 | 4,830 | 4,960 | 4,990 | 4,930 | 4,890 | 4,880 | 4,890 |
| Sweden. | 4,083 | 4,093 | 4,109 | 4,174 | 4,226 | 4,218 | 4,213 | 4,218 | 4,249 | 4,293 |
| Employment-population ratio |  |  |  |  |  |  |  |  |  |  |
| United States | 56.8 | 57.9 | 59.3 | 59.9 | 59.2 | 59.0 | 57.8 | 57.9 | 59.5 | 60.1 |
| Canada ............................................................. | 56.7 | 56.6 | 57.5 | 58.7 | 59.3 | 59.9 | 57.0 | 56.7 | 57.4 | 58.4 |
| Australia | 59.7 | 59.2 | 58.1 | 57.9 | 58.4 | 58.4 | 57.3 | 55.4 | 56.0 | 56.6 |
| Japan | 61.1 | 61.2 | 61.3 | 61.4 | 61.3 | 61.2 | 61.2 | 61.4 | 61.0 | 60.6 |
| France . | 54.8 | 54.7 | 54.4 | 54.0 | 53.5 | 52.8 | 52.3 | 51.8 | 51.0 | 50.5 |
| Germany | 52.0 | 51.6 | 51.5 | 51.7 | 51.7 | 50.8 | 49.6 | 48.6 | 48.5 | 49.0 |
| Great Britain | 59.5 | 59.3 | 59.4 | 59.8 | 58.9 | 55.8 | 54.6 | 54.0 | 54.6 | 55.2 |
| Italy ........ | 46.1 | 46.3 | 45.9 | 45.9 | 46.1 | 45.9 | 45.2 | 44.7 | 44.5 | 44.4 |
| Netherlands | 46.5 | 46.5 | 46.3 | 46.4 | 46.9 | 46.5 | 45.4 | 44.5 | 44.2 | 44.0 |
| Sweden ............................................................. | 64.9 | 64.8 | 64.6 | 65.3 | 65.6 | 65.1 | 64.7 | 64.4 | 64.7 | 65.3 |
| Unemployed |  |  |  |  |  |  |  |  |  |  |
| United States | 7,406 | 6,991 | 6,202 | 6,137 | 7,637 | 8,273 | 10,678 | 10,717 | 8,539 | 8,312 |
| Canada ............................................................ | 726 | 849 | 908 | 836 | 865 | 898 | 1,314 | 1,448 | 1,399 | 1,328 |
| Australia | 298 | 358 | 405 | 408 | 409 | 394 | 495 | 697 | 642 | 602 |
| Japan | 1,080 | 1,100 | 1,240 | 1,170 | 1,140 | 1,260 | 1,360 | 1,560 | 1,610 | 1,560 |
| France ... | 990 | 1,120 | 1,210 | 1,370 | 1,470 | 1,730 | 1,920 | 1,960 | 2,310 | 2,420 |
| Germany | 890 | 900 | 870 | 780 | 770 | 1,090 | 1,580 | 1,990 | 2,090 | 2,130 |
| Great Britain | 1,480 | 1,590 | 1,580 | 1,350 | 1,770 | 2,680 | 3,060 | 3,330 | 3,430 | 3,540 |
| Italy ............. | 700 | 740 | 760 | 810 | 830 | 920 | 1,020 | 1,140 | 1,280 | 1,310 |
| Netherlands | 260 | 250 | 260 | 270 | 330 | 510 | 630 | 830 | 860 | 800 |
| Sweden ..... | 66 | 75 | 94 | 88 | 86 | 108 | 137 | 151 | 136 | 125 |
| Unemployment rate |  |  |  |  |  |  |  |  |  |  |
| United States | 7.7 | 7.1 | 6.1 | 5.8 | 7.1 | 7.6 | 9.7 | 9.6 | 7.5 | 7.2 |
| Canada | 7.1 | 8.1 | 8.3 | 7.4 | 7.5 | 7.5 | 11.0 | 11.9 | 11.3 | 10.5 |
| Australia | 4.8 | 5.6 | 6.3 | 6.3 | 6.1 | 5.8 | 7.2 | 10.0 | 9.0 | 8.3 |
| Japan ............................................................... | 2.0 | 2.0 | 2.3 | 2.1 | 2.0 | 2.2 | 2.4 | 2.7 | 2.8 | 2.6 |
| France ............................................................... | 4.5 | 5.0 | 5.4 | 6.0 | 6.4 | 7.5 | 8.3 | 8.5 | 9.9 | 10.4 |
| Germany ........................................................... | 3.4 | 3.5 | 3.4 | 3.0 | 2.9 | 4.1 | 5.9 | 7.4 | 7.8 | 7.9 |
| Great Britain | 5.9 | 6.3 | 6.2 | 5.3 | 6.8 | 10.4 | 11.8 | 12.8 | 12.9 | 13.1 |
| Italy ....... | 3.4 | 3.6 | 3.7 | 3.9 | 3.9 | 4.3 | 4.8 | 5.3 | 5.9 | 6.0 |
| Netherlands ....................................................... | 5.3 | 5.0 | 5.2 | 5.3 | 6.2 | 9.3 | 11.3 | 14.5 | 15.0 | 14.1 |
| Sweden ........................................................... | 1.6 | 1.8 | 2.2 | 2.1 | 2.0 | 2.5 | 3.1 | 3.5 | 3.1 | 2.8 |

$(1977=100)$

| Item and country | 1960 | 1970 | 1973 | 1974 | 1976 | 1977 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Output per hour |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States | 62.2 | 80.8 | 93.4 | 90.6 | 97.1 | 100.0 | 101.4 |  |  |  |  |  |  |
| Canada | 50.3 | 76.8 | 91.3 | 93.4 | 96.2 | 100.0 | 101.4 | 101.4 | 103.6 | 105.9 | 112.9 | 118.5 | 121.8 |
| Japan | 23.2 | 64.8 | 83.1 | 88.5 | 96.2 | 100.0 | 104.2 | 101.9 122.7 | 104.0 | 101.0 | 107.6 | 111.5 | 115.1 |
| Belgium | 32.8 | 60.0 | 78.7 | 83.2 | 95.3 | 100.0 | 111.8 | 122.7 | 127.2 | 135.0 | 142.3 | 152.2 | 159.9 |
| Denmark | 37.2 | 65.5 | 83.2 | 86.0 | 98.2 | 100.0 | 11.8 | 119.3 | 127.2 | 132.8 | 141.0 | 145.5 | - |
| France . | 36.4 | 69.6 | 82.2 | 85.2 | 95.0 | 100.0 | 106.5 | 112.3 | 114.2 | 114.6 | 117.3 | 118.3 | 118.4 |
| Germany | 40.3 | 71.2 | 84.0 |  | 96.5 | 100.0 | 110.3 | 112.0 | 116.4 | 123.5 | 129.3 | 135.0 | 140.2 |
| Italy ... | 36.5 | 72.7 | 84.0 90.9 | 87.4 95.3 | 96.5 | 100.0 | 108.2 | 108.6 | 111.0 | 112.6 | 119.0 | 124.7 | 131.9 |
| Netherlands | 32.4 | 64.3 | 81.5 | 88.1 | 98.9 | 100.0 | 110.5 | 116.9 | 121.0 | 123.4 | 126.6 | 135.0 | 139.1 |
| Norway | 54.6 | 81.7 | 94.6 | 88.7 | 95.8 | 100.0 | 112.3 | 113.9 | 116.9 | 119.4 | 126.1 | 139.3 | - |
| Sweden | 42.3 | 80.7 | 94.6 | 97.7 | 99.7 | 100.0 | 107.1 | 109.3 | 109.7 | 112.6 | 119.2 | 122.3 | 125.0 |
|  |  | 77.6 | 92.9 | 95.2 | 99.1 | 100.0 | 102.2 | 101.2 | 107.9 | 112.7 | 121.2 | 126.2 | 129.7 |
| Output |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States | 52.5 | 78.6 | 96.3 | 91.7 | 93.1 | 100.0 | 108.1 | 103.2 | 104.8 | 98.4 | 105.6 | 117.9 |  |
| Canada | 41.5 | 75.1 | 94.6 | 98.0 | 98.1 | 100.0 | 110.9 | 107.7 | 108.8 | 98.4 | 101.7 | 110.1 | $\begin{aligned} & 121.0 \\ & 115.2 \end{aligned}$ |
| Japan ... | 19.2 | 69.9 | 91.9 | 91.7 | 94.8 | 100.0 | 113.9 | 124.1 | 129.8 | 137.3 | 148.2 | 165.2 | 175.8 |
| Belgium | 41.7 | 78.1 | 95.8 | 99.6 | 99.5 | 100.0 | 104.2 | 107.2 | 105.9 | 109.1 | 110.7 | 112.8 |  |
| Fenmark | 49.2 | 82.0 | 95.9 | 97.4 | 99.6 | 100.0 | 105.4 | 110.1 | 106.6 | 108.3 | 112.2 | 118.6 |  |
| France .... | 35.4 | 73.3 | 88.6 | 91.8 | 96.1 | 100.0 | 106.1 | 106.6 | 105.9 | 106.0 | 107.4 | 108.4 | 122.3 |
| Germany | 50.0 | 86.6 | 96.1 | 95.4 | 98.0 | 100.0 | 106.6 | 106.6 | 104.9 | 102.4 | 103.5 | 107.4 | 109.0 |
| Italy ............ | 37.4 | 78.0 | 90.5 | 96.3 | 97.9 | 100.0 | 108.6 | 115.4 | 114.3 | 111.6 | 109.2 | 113.2 | 113.0 115.3 |
| Netherlands | 44.8 | 84.4 | 95.8 | 100.0 | 99.0 | 100.0 | 106.1 | 106.6 | 106.7 | 105.0 | 105.3 | 110.8 | 115.3 |
| Norway | 55.1 | 87.0 | 99.5 | 104.0 | 101.4 | 100.0 | 100.3 | 101.3 | 100.1 | 99.8 | 98.8 | 101.3 | 7 |
| Sweden ............ | 52.6 | 92.5 | 100.3 | 105.7 | 106.1 | 100.0 | 103.6 | 104.0 | 100.6 | 100.1 | 0.8 | 11.3 | 103.7 |
| United Kingdom | 71.0 | 94.7 | 104.7 | 103.5 | 98.2 | 100.0 |  |  |  |  | 105.2 | 112.4 | 114.6 |
| Total hours |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Canada ......... | 84.4 | 97.3 | 103.1 | 101.2 | 95.9 | 100.0 | 106.5 | 101.7 | 101.1 | 92.9 | 93.5 |  |  |
| Canada | 82.6 | 97.7 | 103.6 | 105.0 | 102.0 | 100.0 | 106.4 | 105.7 | 104.6 | 95.4 | 94.6 |  |  |
| Japan ... | 82.7 | 107.9 | 110.7 | 106.1 | 100.6 | 100.0 | 99.3 | 101.2 | 102.0 | 101.7 | 104.2 | 108.5 | 100.1 |
| Belgium ${ }^{\text {Denmark }}$ | 127.0 | 130.1 | 121.8 | 119.7 | 104.4 | 100.0 | 93.2 | 89.9 | 83.3 | 821 | 104.2 | 108.5 | 110.0 |
| Denmark | 132.4 | 125.1 | 115.2 | 113.2 | 101.4 | 100.0 | 99.0 | 98.1 | 83.3 | 82.1 | 78.5 | 77.5 | - |
| France ... | 97.2 | 105.3 | 107.8 | 107.8 | 1012 | 100.0 | 99.0 | 98.1 | 93.4 | 94.5 | 95.7 | 100.2 | 103.3 |
| Germany | 123.8 | 121.7 | 114.4 | 109.2 | 101.6 | 100.0 | 96.2 | 95.2 | 91. | 85.9 | 83.0 | 80.3 | 77.8 |
| Italy ............. | 102.3 | 107.4 | 14.4 99.6 | 109.2 | 101.6 | 100.0 | 98.5 | 98.1 | 94.6 | 91.0 | 87.0 | 86.2 | 85.7 |
| Netherlands | 138.4 | 131.2 | 117.6 | 113.5 | 99.0 | 100.0 | 98.2 | 98.7 | 94.5 | 90.4 | 86.2 | 83.9 | 82.9 |
| Norway ... | 101.0 | 106.4 | 105.1 | 1106.5 | 103.3 | 100.0 | 94.4 | 93.6 | 91.2 | 88.0 | 83.5 | 79.5 | - |
| Sweden. | 124.4 | 114.6 | 105.7 | 106.5 | 101.7 | 100.0 | 93.6 | 92.6 | 91.3 | 88.6 | 82.9 | 82.8 | 83.0 |
| United Kingdom | 131.9 | 114.6 | 105.7 | 107.0 | 104.3 | 100.0 | 93.4 | 92.3 | 88.9 | 85.9 | 83.9 | 84.8 | 84.8 |
|  | 131.9 | 122.1 | 112.7 | 108.7 | 99.0 | 100.0 | 98.3 | 90.7 | 79.9 | 76.7 | 73.3 | 73.2 | 73.3 |
| Compensation per hour |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States | 36.5 | 57.3 | 68.8 | 76.2 | 92.1 | 100.0 | 118.6 | 132.4 | 145.2 | 157.5 |  |  |  |
| Canada | 27.1 | 46.5 | 59.2 | 68.5 | 89.9 | 100.0 | 118.3 | 130.6 | 151.5 | 167.1 | 179.3 | 182.1 | $191.4$ |
| Japan .. | 8.9 | 33.9 | 55.1 | 72.3 | 90.7 | 100.0 | 113.4 | 120.7 | 129.8 | 136.6 | 140.7 | 144.8 | 148.3 |
| Belgium. | 13.8 | 34.9 | 53.5 | 65.2 | 89.5 | 100.0 | 117.6 | 130.4 | 144.6 | 152.0 | 163.7 | 176.6 | - |
| Denmark | 12.6 | 36.3 | 56.1 | 67.9 | 90.4 | 100.0 | 123.1 | 135.9 | 149.6 | 162.9 | 174.3 | 183.9 |  |
| France .... | 15.1 | 36.6 | 52.3 | 62.0 | 88.9 | 100.0 | 129.3 | 147.5 | 170.3 | 200.8 | 226.2 | 246.5 | 262.7 |
| Germany | 18.8 | 48.0 | 67.5 | 76.9 | 91.3 | 100.0 | 116.1 | 125.6 | 134.5 | 141.0 | 148.4 | 246.5 155.3 | 262.7 |
| Italy ............ | 8.3 | 26.1 | 43.7 | 54.5 | 84.2 | 100.0 | 134.7 | 160.2 | 197.1 | 237.3 | 276.4 | 303.0 | 164.7 334.0 |
| Netherlands | 12.5 | 39.0 | 60.5 | 71.9 | 91.9 | 100.0 | 117.0 | 123.6 | 129.1 | 137.5 | 144.7 | 152.8 | 334.0 |
| Norway. | 15.8 | 37.9 | 54.5 | 63.6 | 88.8 | 100.0 | 116.0 | 128.0 | 142.8 | 156.0 | 173.5 | 188.3 | 205.2 |
| Sweden ............. | 14.7 | 38.5 | 54.2 | 63.8 | 91.5 | 100.0 | 120.1 | 133.6 | 148.1 | 158.9 | 173.3 | 188.3 | 205.2 |
| United Kingdom | 14.8 | 30.8 | 44.8 | 56.9 | 88.4 | 100.0 | 137.7 | 165.8 | 188.9 | 206.4 | 222.4 | 237.2 | 205.8 257.0 |
| Unit labor costs: National currency basis: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States | 58.7 | 70.9 | 73.7 | 84.1 | 94.9 | 100.0 | 117.0 | 130.6 | 140.1 | 148.7 | 144.5 | 142.8 |  |
| Canada | 53.9 | 60.6 | 64.8 | 73.3 | 93.5 | 100.0 | 113.5 | 128.1 | 145.7 | 165.4 | 166.7 | 163.2 | 166.3 |
| Japan | 38.4 | 52.3 | 66.4 | 83.6 | 96.2 | 100.0 | 98.8 | 98.4 | 102.0 | 101.2 | 98.9 | 95.1 | 92.7 |
| Belgium. | 42.0 | 58.1 | 68.0 | 78.3 | 93.9 | 100.0 | 105.2 | 109.3 | 113.6 | 114.4 | 116.1 | 121.4 | 92.7 |
| Denmark | 33.8 | 55.4 | 67.4 | 79.0 | 92.1 | 100.0 | 115.7 | 121.0 | 131.1 | 142.2 | 148.6 | 121.4 155.5 | 165.1 |
| France | 41.6 | 52.6 | 63.6 | 72.8 | 93.6 | 100.0 | 117.3 | 131.7 |  |  | 148.6 | 155.5 | 165.1 |
| Germany | 46.6 | 67.4 | 80.3 | 88.0 | 93.6 | 100.0 | 117.3 | 131.7 115.7 | 146.3 | 162.6 | 175.0 | 182.5 | 187.4 |
| Italy ........... | 22.8 | 36.0 | 48.1 | 57.2 | 85.1 | 100.0 | 121.9 | 137.0 |  | 125.2 | 124.7 | 124.6 | 124.9 |
| Netherlands | 38.5 | 60.7 | 74.3 | 81.6 | 96.0 | 100.0 | 121.1 | 137.0 | 162.9 | 192.4 | 218.3 | 224.5 | 240.1 |
| Norway | 29.0 | 46.4 | 57.6 | 65.2 | 89.1 | 100.0 | 104.1 | 108.5 | 110.4 | 115.2 | 114.7 | 109.7 | - |
| Sweden | 34.8 | 47.7 | 57.2 | 64.6 | 90.0 | 100.0 | 108.3 | 118.6 | 130.2 | 138.6 | 145.5 | 154.0 | 164.2 |
| United Kingdom . | 27.6 | 39.7 | 48.2 | 59.7 | 89.2 | 100.0 | 134.7 | 163.8 | 130.9 175.1 | 136.3 183.1 | 138.1 | 143.8 | 152.2 |
| Unit labor costs: U.S. dollar basis: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States | 58.7 | 70.9 | 73.7 | 84.1 | 94.9 | 100.0 | 117.0 | 130.6 | 140.1 | 148.7 |  |  |  |
| Canada | 59.0 | 61.7 | 68.8 | 79.7 | 100.7 | 100.0 | 103.0 | 116.4 | 129.1 |  | 143.7 | 132.8 | 145.0 |
| Japan .. | 28.5 | 39.1 | 65.6 | 76.8 | 86.9 | 100.0 | 121.3 | 116.8 | 123.8 | 142.3 108.8 | 1411.5 | 133.9 | 129.4 |
| Belgium | 30.2 | 42.0 | 62.8 | 72.1 | 87.2 | 100.0 | 128.5 | 134.1 | 109.9 | 898.5 | +11.5 | 107.2 | 104.2 |
| Denmark | 29.5 | 44.4 | 67.2 | 77.9 | 91.5 | 100.0 | 132.0 | 129.0 | 109.9 | 89.5 | 81.3 | 75.3 | - |
| France | 41.7 | 46.8 | 70.4 | 74.5 | 96.3 | 100.0 | 135.5 | 153.4 | 132 | 102.3 | 97.5 | 90.1 | 93.5 |
| Germany | 25.9 | 42.9 | 70.4 | 79.1 | 87.3 | 100.0 | 135.5 | 147.4 | 132.2 | 121.5 | 112.9 | 102.7 | 102.6 |
| Italy ..... | 32.5 | 50.6 | 73.1 | 77.6 | 80.5 | 100.0 | 135.9 | 147.9 | 124.9 | 119.7 | 113.4 | 101.6 | 98.6 |
| Netherlands | 25.1 | 41.2 | 65.1 | 77.6 | 90.5 | 100.0 | 129.5 | 141.4 | 126.3 | 125.4 | 126.8 | 112.8 | 111.1 |
| Norway | 21.7 | 34.5 | 65.6 | 74.6 | 89.1 | 100.0 | 127.4 | 134.2 | 108.9 | 105.8 | 98.6 | 83.9 | - |
| Sweden | 30.1 | 41.1 | 53.4 | 62.8 | 86.9 | 100.0 | 113.8 | 126.2 | 120.6 | 114.2 | 106.1 | 100.4 | 101.7 |
| United Kingdom | 34.4 | 41.1 | 58.7 | 65.1 | 92.3 | 100.0 | 112.9 | 125.3 | 115.4 | 96.9 | 80.4 | 77.7 | 79.1 |
|  | 44.4 | 54.4 | 67.7 | 80.1 | 92.3 | 100.0 | 163.9 | 218.3 | 203.1 | 183.5 | 159.4 | 143.9 | 147.3 |

Data not available.

MONTHLY LABOR REVIEW November 1986 - Current Labor Statistics: Injury and Illness Data
48. Occupational injury and illness incidence rates by industry, United States

| Industry and type of case ${ }^{1}$ | Incidence rates per 100 full-time workers ${ }^{2}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
| PRIVATE SECTOR ${ }^{3}$ |  |  |  |  |  |  |  |  |  |
| Total cases | 9.2 | 9.3 | 9.4 | 9.5 | 8.7 | 8.3 | 7.7 | 7.6 | 8.0 |
| Lost workday cases | 3.5 | 3.8 | 4.1 | 4.3 | 4.0 | 3.8 | 3.5 | 3.4 | 3.7 |
| Lost workdays .................. | 60.5 | 61.6 | 63.5 | 67.7 | 65.2 | 61.7 | 58.7 | 58.5 | 63.4 |
| Total cases Agriculture, forestry, and fishing ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |
|  | 11.0 | 11.5 | 11.6 | 11.7 | 11.9 | 12.3 | 11.8 | 11.9 | 12.0 |
| Lost workday cases | 4.7 | 5.1 | 5.4 | 5.7 | 5.8 | 5.9 | 5.9 | 6.1 0.8 | 6.1 |
| Lost workdays ................ | 83.3 | 81.1 | 80.7 | 83.7 | 82.7 | 82.8 | 86.0 | 90.8 | 90.7 |
| Mining |  |  |  |  |  |  |  |  |  |
| Total cases ....................................... | 11.0 | 10.9 | 11.5 | 11.4 | 11.2 | 11.6 | 10.5 | 8.4 | 9.7 |
| Lost workday cases . | 5.8 | 6.0 | 6.4 | 6.8 | 6.5 | 6.2 | 5.4 137.4 | 4.5 125.1 | 5.3 160. |
| Lost workdays ........... | 114.4 | 128.8 | 143.2 | 150.5 | 163.6 | 146.4 | 137.3 | 125.1 | 160.2 |
| Construction |  |  |  |  |  |  |  |  |  |
|  | 15.3 | 15.5 | 16.0 | 16.2 | 15.7 | 15.1 | 14.6 | 14.8 | 15.5 |
| Lost workday cases. | 5.5 | 5.9 | 6.4 | 6.8 120.4 | 6.5 | 6.3 113.1 | 6.0 115.7 | 6.3 118.2 | 6.9 128.1 |
| Lost workdays .......... | 105.0 | 111.5 | 109.4 | 120.4 | 117.0 | 113.1 | 115.7 | 118.2 | 128.1 |
| General building contractors: |  |  |  |  |  |  |  |  |  |
| Total cases .............. | 14.5 | 15.0 | 15.9 | 16.3 | 15.5 | 15.1 | 14.1 | 14.4 | 15.4 6.9 |
| Lost workday cases. | 5.2 | 5.7 100.2 | 6.3 105.3 | 6.8 | 6.5 113.0 | 6.1 107.1 | 5.9 112.0 | 6.2 113.0 | 6.9 121.3 |
| Heavy construction contractors: | 100.0 | 100.2 | 105.3 | 111.2 | 113.0 | 107.1 | 112.0 | 113.0 | 121.3 |
|  |  |  |  |  |  |  |  |  |  |
| Total cases ............. | 16.3 | 16.0 | 16.6 | 16.6 6.7 | 16.3 6.3 | 14.9 6.0 | 15.1 5.8 | 15.4 6.2 | 14.9 6.4 |
| Lost workday cases. | 5.5 | 5.7 116.7 | 6.2 110.9 | 6.7 123.1 | 6.3 117.6 | 6.0 106.0 | 5.8 113.1 | 122.4 | 6.4 131.7 |
| Lost workdays ............... | 109.2 | 116.7 | 110.9 | 123.1 | 117.6 | 106.0 | 113.1 | 122.4 | 131.7 |
| Special trade contractors: |  | 15.6 | 15.8 | 16.0 | 15.5 | 15.2 | 14.7 | 14.8 | 15.8 |
| Lost workday cases. | 15.3 5.6 | 6.1 | 6.6 | 6.9 | 6.7 | 6.6 | 6.2 | 6.4 | 7.1 |
| Lost workdays .......... | 105.8 | 115.5 | 111.0 | 124.3 | 118.9 | 119.3 | 118.6 | 119.0 | 130.1 |
| Manufacturing |  |  |  |  |  |  |  |  |  |
| Total cases . | 13.2 | 13.1 | 13.2 | 13.3 | 12.2 | 11.5 | 10.2 | 10.0 | 10.6 |
| Lost workday cases .. | 4.8 | 5.1 | 5.6 | 5.9 | 5.4 | 5.1 | 4.4 | 4.3 | 4.7 |
| Lost workdays .......................................................................................... | 79.5 | 82.3 | 84.9 | 90.2 | 86.7 | 82.0 | 75.0 | 73.5 | 77.9 |
| Durable goods |  |  |  |  |  |  |  |  |  |
| Lumber and wood products: Durable goods |  |  |  |  |  |  |  |  |  |
| Total cases .............. | 22.1 | 22.3 | 22.6 | 20.7 | 18.6 | 17.6 | 16.9 | 18.3 | 19.6 |
|  | 9.7 | 10.4 | 11.1 | 10.8 | 9.5 | 9.0 | 8.3 | 9.2 | 9.9 |
| Lost workdays Furniture and fixtures: | 167.3 | 178.0 | 178.8 | 175.9 | 171.8 | 158.4 | 153.3 | 163.5 | 172.0 |
|  |  |  |  |  |  |  |  |  |  |
| Total cases .............. | 16.9 | 17.2 | 17.5 | 17.6 | 16.0 | 15.1 | 13.9 | 14.1 | 15.3 |
| Lost workday cases | 6.0 | 6.0 | 6.9 | 7.1 | 6.6 | 6.2 | 5.5 | 5.7 | 6.4 |
| Lost workdays ......... | 94.5 | 92.0 | 95.9 | 99.6 | 97.6 | 91.9 | 85.6 | 83.0 | 101.5 |
| Stone, clay, and glass products: |  |  |  |  |  |  |  |  |  |
| Total cases ...... | 16.1 | 16.9 | 16.8 | 16.8 | 15.0 | 14.1 | 13.0 | 13.1 | 13.6 |
| Lost workday cases | 6.4 | 6.9 | 7.8 | 8.0 | 7.1 | 6.9 | 6.1 | 6.0 | 6.6 |
| Lost workdays .......... | 114.1 | 120.4 | 126.3 | 133.7 | 128.1 | 122.2 | 112.2 | 112.0 | 120.8 |
| Primary metal industries: |  |  |  |  |  |  |  |  |  |
| Total cases ................. | 16.6 | 16.2 | 17.0 | 17.3 | $\begin{array}{r}15.2 \\ 7 \\ \hline\end{array}$ | 14.4 6.7 | 12.4 5.4 | 12.4 5.4 | 13.3 |
|  | 6.3 | 6.8 | 7.5 | 8.1 | 7.1 128.3 | 6.7 121.3 | + 101.6 |  | 6.1 115.3 |
| Lost workdays Fabricated metal products: | 114.8 | 119.4 | 123.6 | 134.7 | 128.3 | 121.3 | 101.6 | 103.4 | 115.3 |
|  |  |  |  |  |  |  |  |  |  |
| Total cases ....... | 18.9 6.8 | 19.1 7.2 | 19.3 8.0 | 19.9 8.7 | 18.5 8.0 | 17.5 7.5 | 15.3 6.4 | 15.1 6.1 | 16.1 6.7 |
| Lost workday cases | 6.8 1098 | 7.2 109.0 | 8.0 112.4 | 8.7 124.2 | 8.0 118.4 | 7.5 109.9 | 6.4 102.5 | 6.1 96.5 | 6.7 104.9 |
| Lost workdays .................. | 109.8 | 109.0 | 112.4 | 124.2 | 118.4 | 109.9 | 102.5 | 96.5 | 104.9 |
|  |  |  | 14.4 | 14.7 | 13.7 | 12.9 | 10.7 | 9.8 | 10.7 |
| Total cases .............. | 14.2 | 14.0 4.7 | 14.4 5.4 |  |  |  |  |  |  |
| Lost workday cases . | 4.6 | 4.7 69.9 | 5.4 75.1 | 5.9 83.6 | 5.5 81.3 | 5.1 74.9 | 66.0 | 3.6 58.1 | 4.1 65.8 |
| Electric and electronic equipment: | 70.6 | 69.9 | 75.1 | 83.6 | 81.3 | 74.9 | 66.0 | 58.1 | 65.8 |
|  |  |  |  |  |  |  |  |  |  |
| Total cases .............. | 8.5 | 8.6 | 8.7 | 8.6 | 8.0 | 7.4 | 6.5 | 6.3 | 6.8 2.8 |
| Lost workday cases | 2.8 44.9 | 3.0 46.7 | 3.3 50.3 | 3.4 51.9 | 3.3 51.8 | 3.1 48.4 | 2.7 42.2 | 2.6 41.4 | 2.8 45.0 |
| Lost workdays ................ | 44.9 | 46.7 | 50.3 | 51.9 | 51.8 | 48.4 | 42.2 | 41.4 | 45.0 |
|  |  |  |  |  |  |  |  |  |  |
| Transportation equipment: Total cases ................. | 12.4 | 11.8 | 11.5 | 11.6 | 10.6 | 9.8 | 9.2 | 8.4 | 9.3 4.2 |
| Lost workday cases. | 4.7 79 | 5.0 | 5.1 | 5.5 85.9 | 4.9 8.4 | 4.6 78.1 | 4.0 | 3.6 64.5 | 4.2 68.8 |
| Lost workdays ........................ | 73.8 | 79.3 | 78.0 | 85.9 | 82.4 | 78.1 | 72.2 | 64.5 | 68.8 |
|  |  |  |  |  |  |  |  |  |  |
| Total cases ... | 7.2 | 7.0 | 6.9 | 7.2 | 6.8 | 6.5 | 5.6 | 5.2 | 5.4 |
| Lost workday cases ......................................................................... | 2.4 | 2.4 | 2.6 | 2.8 | 2.7 | 2.7 | 2.3 | 2.1 | 2.2 |
| Lost workdays | 36.7 | 37.4 | 37.0 | 40.0 | 41.8 | 39.2 | 37.0 | 35.6 | 37.5 |
| Miscellaneous manufacturing industries: |  |  |  |  |  | 10.7 |  | 9.9 | 10.5 |
| Total cases .............. | 11.7 | 11.5 | 11.8 | 11.7 | 10.9 | 10.7 4.4 | 9.9 4.1 |  |  |
|  | 4.0 | 4.0 | 4.5 | 4.7 | 4.4 | 4.4 68.3 | 4.1 69.9 | 4.0 66.3 | 4.3 70.2 |
| Lost workday cases | 59.4 | 58.7 | 66.4 | 67.7 | 67.9 | 68.3 | 69.9 | 66.3 | 70.2 |

See footnotes at end of table
48. Continued- Occupational injury and illness incidence rates by industry, United States

| Industry and type of case ${ }^{1}$ | Incidence rates per 100 full-time workers ${ }^{2}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
| Nondurable goods <br> Food and kindred products: |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Total cases .............. | 19.3 | 19.5 | 19.4 | 19.9 | 18.7 | 17.8 | 16.7 | 16.5 | 16.7 |
| Lost workday cases | 8.0 | 8.5 | 8.9 | 9.5 | 9.0 | 8.6 | 16.7 8.0 | 16.5 | 16.7 8.1 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Lost workday cases | 4.1 | 9.1 | 8.7 | 9.3 | 8.1 | 8.2 | 7.2 | 6.5 | 7.7 |
| Lost workdays ......... | 62.5 | 3.8 66.7 | 4.0 58.6 | 4.2 64.8 | 3.8 | 3.9 | 3.2 | 3.0 | 3.2 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Lost workday cases | 2.7 | 2.9 | 3.4 | 3.4 | 3.1 | 8.8 3.2 | 7.6 2.8 | 7.4 2.8 | 8.0 3.0 |
| Lost workdays ............................. | 55.5 | 57.4 | 61.5 | 61.3 | 62.8 | 59.2 | 53.8 | 51.4 | 54.0 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Lost workday cases | 1.9 | 2.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 | 2.4 | 2.5 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Lost workday cases | 13.7 4.7 | 13.6 5.0 | 13.5 5.7 | 13.5 6.0 | 12.7 5.8 | 11.6 5.4 | 10.6 | 10.0 | 10.4 |
| Lost workdays ......... | 94.8 | 101.6 | 103.3 | 6.0 | 5.8 | 5.4 103.6 | 4.9 99.1 | 4.5 90.3 | 4.7 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Lost workday cases | 2.6 | 2.7 | 2.9 | 3.1 | 3.1 | 3.0 | 2.8 | 2.9 | 2.9 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Lost workday cases | 3.1 | 3.1 | 3.3 | 3.5 | 3.1 | 3.0 | 2.5 | 2.5 | 2.4 |
| Lost workdays .................... | 50.6 | 51.4 | 50.9 | 54.9 | 50.3 | 48.1 | 39.4 | 42.3 | 40.8 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Lost workday cases | 3.2 | 3.3 | 3.4 | 3.6 | 3.5 | 2.9 | 2.5 | 2.4 | 2.4 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Lost workday cases | 7.1 | 7.6 | 8.1 | 8.2 | 7.4 | 7.2 | 6.0 | 6.2 | 6.4 |
| Lost workdays ..................... | 113.3 | 118.1 | 125.5 | 127.1 | 118.6 | 117.4 | 100.9 | 101.4 | 104.3 |
| Leather and leather products:Total cases ................................ |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Lost workday cases | 4.1 | 4.4 | 4.7 | 4.9 | 5.0 | 5.1 | 4.5 | 4.4 | 4.7 |
| Lost workdays ........ | 69.0 | 68.9 | 72.5 | 76.2 | 82.7 | 82.6 | 86.5 | 87.3 | 94.4 |
| Transportation and public utilities |  |  |  |  |  |  |  |  |  |
| Total cases ............ | 9.8 | 9.7 | 10.1 | 10.0 | 9.4 | 9.0 | 8.5 | 8.2 | 8.8 |
| Lost workday cases ................................................................................ | 5.0 | 5.3 | 5.7 | 5.9 | 5.5 | 5.3 | 4.9 | 4.7 | 5.2 |
| Lost workdays | 94.0 | 95.9 | 102.3 | 107.0 | 104.5 | 100.6 | 96.7 | 94.9 | 105.1 |
| Wholesale and retail trade |  |  |  |  |  |  |  |  |  |
| Total cases .............. | 7.5 | 7.7 | 7.9 | 8.0 | 7.4 | 7.3 | 7.2 | 7.2 | 7.4 |
| Lost workday cases | 2.8 | 2.9 | 3.2 | 3.4 | 3.2 | 3.1 | 3.1 | 3.1 | 3.3 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Total cases ........................................................................................... | 8.1 | 8.5 | 8.9 | 8.8 | 8.2 | 7.7 | 7.1 | 7.0 | 7.2 |
| Lost workday cases | 3.3 | 3.6 | 3.9 | 4.1 | 3.9 | 3.6 | 3.4 | 3.2 | 3.2 |
| Retail trade: |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| Total cases | 7.2 | 7.4 | 7.5 | 7.7 | 7.1 | 7.1 | 7.2 | 73 | 7.5 |
| Lost workday cases | 2.6 | 2.7 | 2.8 | 3.1 | 2.9 | 2.9 | 2.9 | 7.3 3.0 | 7.5 3.2 |
| Lost workdays .......... | 39.7 | 40.5 | 39.7 | 44.7 | 44.5 | 41.1 | 42.6 | 46.7 | 48.4 |
| Finance, insurance, and real estate |  |  |  |  |  |  |  |  |  |
| Total cases .............. | 2.0 | 2.0 | 2.1 | 2.1 | 2.0 | 1.9 | 2.0 | 2.0 | 1.9 |
| Lost workday cases | . 7 | . 8 | . 8 | . 9 | . 8 | . 8 | . 9 | 2.0 .9 | . 9 |
| Lost workdays ...... | 11.6 | 10.4 | 12.5 | 13.3 | 12.2 | 11.6 | 13.2 | 12.8 | 13.6 |
| Services |  |  |  |  |  |  |  |  |  |
| Total cases ............. | 5.3 | 5.5 | 5.5 | 5.5 | 5.2 | 5.0 | 4.9 | 5.1 | 5.2 |
| Lost workday cases ............................................................................ | 2.0 | 2.2 | 2.4 | 2.5 | 2.3 | 2.3 | 2.3 | 2.4 | 2.5 |
| Lost workdays ....... | 38.4 | 35.4 | 36.2 | 38.1 | 35.8 | 35.9 | 35.8 | 37.0 | 41.1 |

1 Total cases include fatalities.
The incidence rates represent the number of injuries and illnesses or lost workdays per 100 full-time workers and were calculated as: (N/EH) X 200,000, where:
$\mathrm{N}=$ number of injuries and illnesses or lost workdays.
$\mathrm{EH}=$ total hours worked by all employees during calendar year.
$200,000=$ base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks per year.)
${ }^{3}$ Excludes farms with fewer than 11 employees since 1976.

## Employee Benefits in Medium and Large Firms, 1985

U.S. Department of Labor Bureau of Labor Statistics
Bulletin 2262

The Bureau of Labor Statistics issues its 1985 Bulletin on employee benefits in medium and large firms. This survey is the seventh in an annual series.

## Data available

- Incidence and detailed characteristics of 14 private sector employee benefits paid for at least in part by the employer: Lunch and rest periods, holidays, vacations, and personal, funeral, jury duty, military, and sick leave; sickness and accident, long-term disability, health, and life insurance; and private retirement/capital accumulation plans. Included in the retirement data is information on defined benefit plans, such as benefit formulas and pension replacement rates, and on defined contribution plans, such as salary reduction or 401 (k) plans.
- Incidence data on 17 other employee benefits, including financial counseling, prepaid legal services, and child care.


## Coverage

- Major benefits in medium and large firms, nationwide.
- Minimum employment in establishments covered is generally 100 or 250 employees, depending on the industry.


## Employee Benefits in Medium and Large Firms, 1985



## Source of data

- Sample of about 1,500 establishments in a cross-section of the Nation's private industries; primarily by personal interview.


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[^1]:    Paul O. Flaim is chief of the Division of Data Development and Users' Services, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

[^2]:    ${ }^{1}$ The work experience data are published annually. For the most recent data, see Shirley J. Smith, "Work experience profile, 1984: the effects of recovery continue," Monthly Labor Review, February 1986, pp. 37-42.
    ${ }^{2}$ The data on when the persons outside the labor force have last worked are not currently published and may be subject to significant bias, particularly because of a phenomenon known as "telescoping." This relates to a possible tendency among survey respondents to report certain events as having occurred in the recent past, when, in fact, they had occurred earlier. To the extent that some of the persons who have been outside the labor force more than 1 year report that they left their last job in the most recent year, there would be an overestimation of the number exiting the labor force and, by inference, of those entering it over the year in question.
    ${ }^{3}$ While very revealing, the gross flow data are subject to serious statistical problems and may also overestimate the flows into and out of the labor force. See Paul O. Flaim and Carma R. Hogue, "Measuring labor force flows: a special conference examines the problems," Monthly Labor Review, July 1985, pp. 7-17.
    ${ }^{4}$ See Ellen Sehgal, "Occupational mobility and job tenure in 1983," Monthly Labor Review, October 1984, pp. 18-24.
    ${ }^{5}$ Robert E. Hall, "The Importance of Life Jobs in the U.S. Economy," American Economic Review, September 1982.
    ${ }^{6}$ Shirley J. Smith, "Revised worklife tables reflect 1979-80 experience," Monthly Labor Review, August 1985, pp. 23-30.

[^3]:    ${ }^{1}$ Estimate not available.
    NOTE: Estimates reflect data for wage and salary workers and the incorporated self-employed age 16 and over. Figures for May 1973 exclude private household workers.

[^4]:    ${ }^{1}$ Overall growth rate for the period May 1979 to May 1985 was 16.0 percent. This figure has been subtracted from the observed growth rate for each 1979-85 cell of the table to derive the standardized values shown. Thus, for example, the growth of schemes involving 40 hours of work in 4 to 4.5 days was about five times that of all nonagricultural wage and salary employment.
    ${ }^{2}$ Overall growth of male nonfarm payroll employment from May 1979 to May 1985 was 10.3 percent. This figure has been subtracted from the growth rate of male employment in each work schedule to derive the standardized values shown.
    ${ }^{3}$ Overall growth of female nonfarm payroll employment from May 1979 to May 1985 was 23.5 percent. This figure has been subtracted from the growth rate of female employment in each work schedule to derive the standardized values shown.
    ${ }^{4}$ Cell frequency is too small to justify computation.

[^5]:    ${ }^{1}$ For a discussion of past trends, see Janice Neipert Hedges and Daniel E. Taylor, "Recent trends in worktime: hours edge downward," Monthly Labor Review, March 1980, p. 4.
    ${ }^{2}$ The Fair Labor Standards Act became effective in 1940.
    ${ }^{3}$ See Employment Standards Administration, Minimum Wage and Maximum Hours: Standards Under the Fair Labor Standards Act-1984 Report (U.S. Department of Labor, 1984).
    ${ }^{4}$ These data exclude workers in contract construction; all governmental establishments and government-owned and operated businesses (such as water utilities, transit authorities, and so forth); medical and educational services; and administrative, executive, professional, and part-time employees. Also excluded are persons who are self-employed, or who work anything other than the day shift. See Area Wage Surveys: Metropolitan Areas, United States and Regional Summaries, 1973-1974 and 1985 (Bureau of Labor Statistics).

[^6]:    Earl F. Mellor is an economist in the Division of Employment and Unemployment Analysis, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

[^7]:    ${ }^{1}$ Statistics on wage and salary workers usually include self-employed workers whose businesses are incorporated because from a legal standpoint they are the paid employees of a corporation. However, they are excluded from the analysis here, as the primary interest in the scheduling of work lies in a universe of workers limited to those who work for someone else. To have a consistent universe throughout the article, data are limited to those who actually worked during the survey reference week, because some of the data were collected only for this group.
    ${ }^{2}$ Information on beginning and ending hours should not be used to indicate the number of hours worked per day-a statistic available through another question in the May 1985 survey. As previously mentioned, the times are rounded. For example, a 9:00 to 5:30 schedule would appear as 9:00 to 6:00. Because most workers usually arrive at work a few minutes before the required start time, someone who has a 7:30 to 4:00 work requirement, but actually arrives at 7:25 most days (and "punches in"

[^8]:    John F. Stinson, Jr. is an economist in the Division of Data Development and Users' Services, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

[^9]:    ${ }^{1}$ Multiple jobholders as a percent of all employed persons.
    2 Beginning in 1977, data refer to black workers only; data for prior years refer to the black-and-other-population group.
    NOTE: Data for 1970-1980 have not been adjusted to reflect 1980 census population controls.

[^10]:    ${ }^{1}$ The data were obtained through special questions asked in conjunction with the May 1985 Current Population Survey (CPS), the monthly survey of about 59,500 households which provides the basic labor force and unemployment data for the Nation. Data on multiple jobholders used to be collected each May in a supplement to the CPS until the supplement was ended after 1980. For the most recently published report on multiple jobholders, see Daniel E. Taylor and Edward S. Sekscenski, "Workers on long schedules, single and multiple jobholders," Monthly Labor Review, May 1982, pp. 47-53.
    ${ }^{2}$ Also included as multiple jobholders are a small number of persons who had two jobs because they changed jobs during the survey week. Persons employed only in private households (such as housekeepers, launderers, gardeners, babysitters, and so forth) who worked for two employers or more during the survey week, are not counted as multiple jobholders because working for several employers is considered an inherent characteristic of private household work rather than an indication of multiple jobholding. Also excluded are self-employed persons with additional farms or businesses and persons with secondary jobs as unpaid family workers.
    ${ }^{3}$ Included among the wage and salary workers are the incorporated self-employed (individuals who worked for corporations which they owned). The number of dual jobholders in this category is very small ( 58,000 , or 1 percent of all moonlighters) and their inclusion among the wage and salary workers should have a minimal impact on the analysis of the data.
    ${ }^{4}$ Data on wage and salary earnings only were collected for the primary job. Data on earnings from all sources were collected for the second job.

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[^13]:    See footnote 1 , table 1

[^14]:    Darrell E. Carr is an economist in the Division of Data Development and Users' Services, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

[^15]:    ${ }^{1}$ Data refer to wage and salary workers, excluding the incorporated self-employed, who were at work during the survey week.
    ${ }^{2}$ Includes a small number of persons who did not report the number of overtime hours paid or the rate of pay received.
    Note: Detail for 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.

[^16]:    ${ }^{1}$ Daniel E. Taylor and Edward S. Sekscenski, "Workers on long schedules, single and multiple jobholders," Monthly Labor Review, May 1982, pp. 47-53.
    ${ }^{2}$ Data refer to wage and salary workers at work during the May 1985 survey week (May 12-18). Excluded are those who were employees of corporations which they owned.
    ${ }^{3}$ Ronald G. Ehrenberg, Fringe Benefits and Overtime Behavior (Lexington, MA, D.C. Heath and Co., 1971), p. 1.
    ${ }^{4}$ Charles H. Livengood, Jr., The Federal Wage and Hour Law (Philadelphia, PA, Amercian Law Association collaborating with the

[^17]:    Susan E. Shank is an economist in the Division of Employment and Unemployment Analysis, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

[^18]:    Wayne J. Howe is an economist in the Division of Employment and Unemployment Analysis, Office of Employment and Unemployment Statistics, Bureau of Labor Statistics.

[^19]:    ${ }^{1}$ For a discussion of these issues, see Max L. Cary and Kim L. Hazelbaker, "Employment growth in the temporary help industry," Monthly Labor Review, April 1986, pp. 29-36; and "Temporary Help ServicesWho Uses Them and Why," The Office, May 1984, pp. 135-40.
    ${ }^{2}$ David Schwartz, "Life in the Temp Lane," City Paper, Vol. 6, no. 28, July 11-17, 1986, pp. 12-13.

[^20]:    ${ }^{3}$ See Carey and Hazelbaker, "Employment growth," p. 38.
    ${ }^{4}$ Ibid., p. 40.

[^21]:    Joy K. Reynolds in an industrial relations specialist at the Bureau of Labor-Management and Cooperative Programs, U.S. Department of Labor.

[^22]:    ${ }^{1}$ Affiliated with AFL-CIO except where noted as independent (Ind.).

[^23]:    "Developments in Industrial Relations" is prepared by George Ruben of the Division of Developments in Labor-Management Relations, Bureau of Labor Statistics, and is largely based on information from secondary sources.

[^24]:    ${ }^{1}$ Quarterly data seasonally adjusted.
    ${ }^{2}$ Annual changes are December to December change. Quarterly changes are calculated us-
    ing last month of each quarter.

[^25]:    ${ }^{3}$ Good-producing industries include mining, construction,
    producing industries include all other private sector industries

    - Data not available.

[^26]:    1 The population and Armed Forces figures are not adjusted for seasonal variation
    2 Includes members of the Armed Forces stationed in the United States.
    3 Labor force as a percent of the noninstitutional population.

[^27]:    4 Total employed as a percent of the noninstitutional population. Forces).

[^28]:    The population figures are not seasonally adjusted.
    Civilian employment as a percent of the civilian noninstitutional population.

[^29]:    Aggregate hours lost by the unemployed and persons on part time for economic

[^30]:    - Data not available
    $\mathrm{p}=$ preliminary

[^31]:    This series is not seasonally adjusted because the seasonal component is small relative to the trend-cycle, irregular components, or both, and consequently cannot be separated with sufficient precision.

    - Data not available.

[^32]:    NOTE: See "Notes on the data" for a description of the most

[^33]:    $=$ preliminary.

[^34]:    - Data not available.

[^35]:    ${ }^{1}$ Crude nonfood materials except fuel.

[^36]:    - Data not available

[^37]:    - Data not available.

