Extended mass layo iss New orkand the Nation
rallointintisules
I1. 1 , then isser conferance

Volume 131, Number 8
September 2008
The effect of business ownership change on occupational employment and wages
After a business changes ownership, employment falls but wages rise in some occupations, whereas in other occupations, employment levels are maintained and wages fall Dina Itkin
Extended mass layoffs after 2001: a comparison of New York and the Nation ..... 24
BLS data reveal that layoff activity in New York was somewhat elevated in the years that followed the 2001 recession
Bruce J. Bergman

## Conference report

Knowing younger workers better: information from the NLSY97 42
Papers from the 10th anniversary conference of the National Longitudinal Survey of Youth, 1997 cohort addressed schooling, employment, adolescent behaviors, and many other issues
Dan Black, Robert Michael, and Charles Pierret

## Regional trends

Multiple jobholding in States, 200752
James Campbell 53

## Departments

Labor month in review 2
Précis 54
Book reviews 55
Current labor statistics 57

Editor-in-Chief: Michael D. Levi • Executive Editor: William Parks II • Managing Editor: Leslie Brown Joyner • Editors: Brian I. Baker, Casey P. Homan - Book Review Editor: James Titkemeyer • Design and Layout: Catherine D. Bowman, Edith W. Peters - Contributing editor: Lawrence H. Leith • Contributor: Stephen E. Baldwin

## The September Review

Our first article this month examines the effect of changes in business ownership on workers related to the types of jobs they hold. Analyzing microdata from the Occupational Employment Statistics (OES) survey, Dina Itkin demonstrates that there are differential outcomes by occupation on employment and wage levels resulting from new ownership. Among a number of areas of inquiry, she identifies the industry sectors most affected by ownership change. Further, she investigates the relationship between changes in occupational composition resulting from new ownership and the employment size of the affected business. The author identifies some limitations of the study, noting, for instance, that some staffing changes might be in transition and only partially captured using her methodology.

Bruce J. Bergman compares mass layoff activity in the New York City area with that of the Nation as a whole in the years prior to and after the 2001 recession. With the largest metropolitan workforce in the country, trends in the Big Apple regarding the separation of workers from their employers are always going to be of interest. Bergman finds a "qualitatively different" pattern in the industry distribution of layoffs prior to, and after, 2001, in New York, in contrast to the national experience.

A trio of authors with a demonstrated interest in longitudinal studies provides a Conference Report in this month's MLR focusing on information from the 1997 cohort of
the National Longitudinal Survey of Youth. In May of this past summer, BLS hosted a conference highlighting the latest research from this survey, and Dan Black, Robert Michael, and Charles Pierret provide a "brief and informal characterization" of some of the more than a dozen studies presented. They summarize the research on topics ranging from social behaviors (such as marriage and offspring and the influence of siblings) to education (including the effects of parental resources on educational attainment) to the changing characteristics of youth employment.

Finally this month, James Campbell provides his annual update to patterns of multiple jobholding among the various States.

## A profile of the working poor

The majority of the 36.5 million persons in poverty in the United States are children or adults outside of the labor force. However, there are many people who are active participants in the labor force for at least half a year, but whose incomes still fall below the official poverty level. Each year the Bureau publishes data on these socalled "working poor."
In 2006, it is estimated that 7.4 million individuals were in these circumstances, meaning they spent 27 weeks or more working or looking for work, but lived at or below the official poverty threshold relevant to their family structure. They made up 5.1 percent of all persons in the labor force for 27 weeks or more, down a bit from 2005.

Some of the socioeconomic factors that often are cited as contributing to labor market outcomes are found to influence who falls into the workingpoor status. Persons with the least amount of education, for instance, make up a far higher percentage of the working poor - almost 14 percent - than those with a college degree (less than 2 percent). Persons in occupations that tend to be lower paying have a higher probability of being among the working poor, as do parttime, as compared to full-time, workers. Married couple families facing the extra expenses of childrearing are much more likely to be among the working poor than married couple families without children.

A Profile of the Working Poor, 2006 can be found online at http:// www.bls.gov/cps/cpswp2006.pdf

## Happy Birthday, TED!

Who is TED, you ask? As noted in this column before, "he" is The Editor's Desk, a daily feature published by BLS on its Web site. TED is a reliable source of fresh content posted every business day. It was the first online-only publication available from the Bureau. Since the first issue was published in September 1998, TED hasn't missed a day of work, as over 2,400 entries have been issued so far. Congratulations to TED, and to all who help produce this feature so reliably.

For additional information about the 10th anniversary of The Editor's Desk, please go to http://www.bls.gov/opub/ ted/tenyears.htm

# The effect of business ownership change on occupational employment and wages 


#### Abstract

An analysis of business establishment microdata reveals that, after a business changes ownership, employment falls, but wages rise, in occupations that performed analytical, clerical, and production work; by contrast, employment levels are maintained, but wages fall, in service occupations


## Dina Itkin

Dina Itkin is an economist in the Office of Employment and Unemployment Statistics, Bureau of Labor Statistics. E-mail: itkin.dina@bls.gov

Every year, thousands of U.S. businesses are bought, sold, or merged to raise profits, reduce costs, increase market share, or otherwise interact in the dynamic economy. The national level of business ownership change peaked in the late 1990s, when the Nation was experiencing rapid economic growth, and declined gradually through 2002. ${ }^{1}$ After 2003, the number and asset trade value of ownership changes rose steadily again. Volume in 2006 exceeded that in 2005 by 38 percent and surpassed a 2000 record. The year-over-year asset trade volume of ownership change as of July 2007 was up 60 percent globally and 41 percent in the United States. ${ }^{2}$

Existing literature and anecdotal evidence have found varying effects of ownership changes on company profits, labor productivity, wages, and staffing in specific industries. For example, research using Census Bureau data on manufacturing companies found that ownership changes led to reductions in employment and wages at auxiliary (support) offices, but had little effect on employment at production plants. ${ }^{3}$ Two other studies-one of manufacturing firms ${ }^{4}$ and the other of food-manufacturing firms ${ }^{5}$-found that ownership changes resulted in employment and wage increases overall, but led to job losses in large firms.

Trends in personnel changes in all sectors of the economy are of interest to economists, business owners, and workers, but there is little, if any, recent empirical research on the effects of ownership changes on detailed occupational employment. Such information provides insight into the specific jobs and skill sets that are in demand when firms reorganize or redirect their business strategies.

This study uses a recent large sample of business establishment microdata to examine how overall employment and occupational composition are affected when establishments undergo a change in ownership. The study resulted in a number of interesting findings: after ownership changes, (1) employment levels of occupations that performed analytical, clerical, and production work were least likely to be maintained, and most of these groups' wages shifted toward higher ranges; (2) employment levels of service occupations such as health care, education, and protection services were more likely to be maintained, but most of these groups' wages shifted toward lower ranges, on average; (3) overall, employment declines were seen in establishments that changed ownership; and (4) among the industries that contracted the most, declines were concentrated in occupations that serve a support function in the industry, rather
than in occupations that are core to the industry's output. These findings tended to be supported across establishments of different sizes, with decreases in the share of support occupations such as office and administrative support, management, and sales occupations in all size classes.

## Methodology

This study was conducted with the use of microdata from the Occupational Employment Statistics (OES) survey. The OES program surveys approximately 200,000 establishments every 6 months, taking 3 years to collect its full sample of 1.2 million establishments. Establishments are eligible for selection again after 3 years. The data set consisted of all business establishments that reported to the OES survey twice over a period of 6 years. Those establishments were put into two subsamples on the basis of whether or not they changed ownership, as defined by a change in the Unemployment Insurance (UI) account number. Included in the study were microdata from all 50 States and the District of Columbia, from establishments that reported occupational employment for all of their employees and wage data for most of their employees. ${ }^{6}$

All establishments covered by State Unemployment Insurance have an assigned UI account number. When a firm changes ownership, it normally refiles with the Unemployment Insurance program and receives a new UI number. By contrast, the Quarterly Census of Employment and Wages (QCEW) program's Longitudinal Database (LDB) assigns each establishment a unique LDB number that does not change, even if the ownership changes. A total of 277,027 establishments reported to the OES survey exactly twice during a 6-year period from 2000 to $2006 .{ }^{7}$ Of the establishments that reported twice with the same LDB number, 254,829 had the same UI number the second time they reported. These establishments serve as this study's subsample of establishments that did not change ownership (the control subsample). The remaining 22,198 establishments had different UI numbers the second time they reported and serve as the study's subsample of establishments that changed ownership (the ownership change subsample). Each establishment in either subsample has longitudinal occupational staffing data for two points in time. The first reports are included in the predecessor group, whose establishments reported data between 2000 and 2003. The second reports are included in the successor group, whose establishments reported data between 2003 and 2006.

## Limitations of the study

Elements of the OES sampling strategy may create a bias toward larger establishments in the study's subsamples. The reason is that sample selection within geographic area and industry group strata is approximately proportional to size, in order to provide the most occupational coverage. Although there are more small units in the subsamples, larger units are more likely to be selected at two points in time and included in the subsamples. This bias is enhanced by the fact that the study uses unweighted employment.

Although a change in UI account number in establishments with the same LDB number represents an ownership change most of the time, limitations to this definition exist. A change in UI number does not necessarily indicate a change in ownership (it could be the result of a change in the type of business entity, as, for example, when a business incorporates), and perhaps not all ownership changes were marked by a UI number change. To facilitate the identification of establishments that changed ownership, factors such as employment, trade names, physical addresses, and telephone numbers were used in determining whether to maintain the LDB number.

The microdata do not differentiate among types of ownership changes, such as mergers, takeovers, divestitures, or buyouts. If the ownership change represents a merger or an acquisition, then changes in the acquiring establishment are not measured; only employment data from the acquired establishment are captured in this study. For example, if an establishment was bought by another company, the study would capture predecessor and successor data only for the establishment with the same LDB number before and after the purchase. A related limitation of the study is that the data do not indicate whether labor was voluntarily or involuntarily removed, or whether it was contracted out or outsourced, after the ownership change. Also, because the time between the first and second reporting is at least 3 years for all establishments, the study might not capture staffing changes that occurred immediately before or after the ownership change. In some cases, the transition might be only partially complete at the second reporting; in other cases, the transition may already have begun at the first reporting, in anticipation of a future takeover.

## Overall employment trends

Certain industries were more likely to change ownership relative to other industries in the study subsample and to the economy as a whole. Table 1 shows, in order by column, the industry distributions of establishments that reported twice,

## Table 1. Concentration of establishments, by industry sector, in the ownership change subsample and across all establishments, 2000-06

| Industry sector | Number of units that reported twice | Number of units that changed ownership | Percent that changed ownership | Percent distribution of ownership change subsample | Average number of privatesector establishments in 2005, QCEW | Percent <br> distribution of private sector establishments in 2005, QCEW |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total ... | 277,027 | 122,198 | 8.01 | ${ }^{1} 100$ | 18,294,662 | ${ }^{1} 100$ |
| Information... | 6,858 | 793 | 11.56 | 3.57 | 141,871 | 1.71 |
| Accommodation and food services................ | 15,283 | 1,760 | 11.52 | 7.93 | 572,791 | 6.91 |
| Administrative and support and waste management and remediation services .... | 13,436 | 1,351 | 10.06 | 6.09 | 426,681 | 5.14 |
| Retail trade...................................................... | 41,261 | 3,875 | 9.39 | 17.46 | 1,038,585 | 12.52 |
| Manufacturing............................................... | 40,480 | 3,469 | 8.57 | 15.63 | 365,351 | 4.40 |
| Finance and insurance.................................... | 10,713 | 915 | 8.54 | 4.12 | 462,381 | 5.57 |
| Health care and social assistance .................... | 26,317 | 2,226 | 8.46 | 10.03 | 689,010 | 8.31 |
| Wholesale trade .............................................. | 18,742 | 1,516 | 8.09 | 6.83 | 601,625 | 7.25 |
| Transportation and warehousing................... | 10,221 | 814 | 7.96 | 3.67 | 212,309 | 2.56 |
| Real estate and rental and leasing .................. | 7,632 | 576 | 7.55 | 2.59 | 351,329 | 4.24 |
| Mining ............................................................ | 1,618 | 122 | 7.54 | . 55 | 26,313 | . 32 |
| Management of companies and enterprises | 2,176 | 162 | 7.44 | . 73 | 43,239 | . 52 |
| Professional and technical services ................ | 16,163 | 1,126 | 6.97 | 5.07 | 902,710 | 10.88 |
| Utilities ........................................................... | 1,754 | 121 | 6.90 | . 55 | 16,260 | . 20 |
| Arts, entertainment, and recreation ............... | 6,465 | 418 | 6.47 | 1.88 | 118,614 | 1.43 |
| Other services, except public administration..... | 18,805 | 1,204 | 6.40 | 5.42 | 1,102,054 | 13.29 |
| Construction ............................................................... | 21,357 | 1,316 | 6.16 | 5.93 | 845,843 | 10.20 |
| Educational services........................................ | 11,396 | 273 | 2.40 | 1.23 | 78,410 | . 95 |

${ }^{1}$ Details do not sum to total because some industries are not listed separately and some establishments lack an industry classification. The industry sector of agriculture, forestry, fishing, and hunting is excluded
because the OES and QCEW have incomplete coverage of that sector. OESdesignated government industries also are excluded.
the industry distributions of establishments that changed ownership, and the percentage of establishments that changed ownership in each industry. The industries listed are sorted by the percent that changed ownership. Industries in which at least 10 percent of establishments changed ownership were information, accommodation and food services, and administrative and support and waste management and remediation services. The two columns headed "Percent distribution..." serve as an indication of industry distribution in the ownership change subsample relative to the industry's representation in the economy. Industries that represented a large proportion of the ownership change subsample relative to the economy as a whole included manufacturing, retail trade, information, health care and social assistance, transportation and warehousing, and accommodation and food services. At the more detailed industry level, the OES data are consistent with other findings ${ }^{8}$ which show that, in 2003, most ownership changes were in business services, prepackaged software, commercial banks and bank holding companies, real estate, mortgage bankers and brokers, and oil and gas and petroleum refining.

Overall, there was a decline in total employment from the predecessor group to the successor group after owner-
ship changes. Total employment in the predecessor group was 2,018,250, and total employment in the successor group was $1,890,986$, a decrease of more than 6.31 percent. ${ }^{9}$ This employment decrease occurred despite overall private-sector employment growth of 2.82 percent between 2002 and $2005 .{ }^{10}$ Almost half $(10,677)$ of the 22,198 establishments that changed ownership experienced a decrease in employment, 9,517 saw an increase in employment, and the remaining 2,004 had no change in employment. Although employment decreased overall in the ownership change subsample, employment change varied by industry, establishment size, and occupation.

The distribution of the ownership change subsample and the control subsample is shown by establishment size in table 2. In the control subsample, there was an aggregate shift toward medium and large sizes, while in establishments that changed ownership, there was an aggregate shift toward smaller sizes. After establishments changed ownership, the concentration of establishments increased in the 1 -to-9-employee and 10-to-49-employee size classes and decreased in the three larger size classes. The concentration in the 1 -to- 9 -employee size class grew by nearly 5 percent in the ownership change subsample, while it grew by

| Size of establishment | Ownership change subsample |  |  |  | Control subsample |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of predecessor units | Number of successor units | Difference between number of predecessor and successor units | Percent change | Number of predecessor units | Number of successor units | Difference between number of predecessor and successor units | Percent change |
| Total............................................... | 22,198 | 22,198 | $\ldots$ | ... | 254,829 | 254,829 |  |  |
| 1-9 employees.............................. | 5,277 | 5,530 | 253 | 4.79 | 69,585 | 70,721 | 1,136 | 1.63 |
| 10-49 employees.......................... | 9,094 | 9,151 | 57 | . 63 | 108,834 | 107,500 | -1,334 | -1.23 |
| 50-249 employees ......................... | 6,199 | 5,973 | -226 | -3.65 | 60,024 | 60,101 | 77 | . 13 |
| 250-999 employees....................... | 1,412 | 1,335 | -77 | -5.45 | 14,057 | 14,170 | 113 | . 80 |
| 1,000 or more employees ............... | 216 | 209 | -7 | -3.24 | 2,329 | 2,337 | 8 | . 34 |

substantially less in the control subsample. Likewise, the number of 10 -to-49-employee establishments increased in the ownership change subsample, while it decreased in the control subsample. These shifts suggest that, after ownership changes, the size distribution of establishments moved toward smaller establishments; that is, more establishments shrank than grew. Because these numbers capture only overall total concentrations at two different times, the last section of this article examines employment changes by establishment size.

## Changes by occupational group

Changes in employment levels. After ownership changes, changes in employment were spread across several occupations, with more than half of the occupational groups seeing declines in employment and other occupational groups seeing employment increases. Table 3 presents the changes in employment in each occupational group after ownership changed. As shown in the column headed "Employment difference," the occupations that decreased in employment level were production; office and administrative support; sales and related; management; computer and mathematical science; business and financial operations; architecture and engineering; transportation and material moving; building and grounds cleaning and maintenance; personal care and service; installation, maintenance, and repair; arts, design, entertainment, sports, and media; construction and extraction; and legal occupations.

At the other end of the spectrum, the occupational groups that grew after ownership changes were health care practitioner and technical; protective service; health care support; education, training, and library; food prepara-
tion and serving; community and social services; and life, physical, and social science occupations. Because changes in level do not convey growth or decline relative to other occupational groups, an analysis of the employment shares of total predecessor and successor employment follows.

Relative changes in employment shares. Table 3 also shows the percentage-point difference between the predecessor and successor employment shares in both subsamples. Occupational groups are labeled "less likely" or "more likely" to be retained, on the basis of their change in employment share in the ownership change subsample relative to the control subsample. Employees who were less likely to be retained are in occupations whose employment shares (1) shrank in the ownership change subsample while they grew in the control subsample, (2) grew in the ownership change subsample by less than they grew in the control subsample, or (3) shrank in the ownership change subsample by more than they shrank in the control subsample. This set of occupations (those which are less likely to be retained) is plotted to the right of the diagonal in chart 1. For each occupational group shown in the chart, the further the point that is associated with it lies from the origin and the diagonal, the greater is the difference between the employment shares in establishments that changed ownership and in establishments that did not change ownership.

Employees who performed analytical, clerical, and production work were less likely to be retained after ownership changes. The occupational groups that shrank in the ownership change subsample while they grew in the control subsample (occupational groups located in quadrant IV) were computer and mathematical science; busi-


ness and financial operations; arts, design, entertainment, sports, and media; and legal occupations. The following occupational groups shrank by more in the ownership change subsample than they shrank in the control subsample (occupational groups located to the right of the diagonal in quadrant III): production, management, sales and related, office and administrative support, and architecture and engineering occupations. Life, physical, and social science occupations grew in the ownership change subsample, but by less than they grew in the control subsample (the occupational group located to the right of the diagonal in quadrant I).

By contrast, employees who were more likely to be retained were in occupations that (1) grew in the ownership change subsample while they shrank in the control subsample or (2) grew in the ownership change subsample by more than they grew in the control subsample. (None shrank in the ownership change subsample by less than they shrank in the control subsample.) The set of occupations in which employees were more likely to be retained is plotted to the left of the diagonal in the chart.

Service-related jobs, such as health care, education, and
protection, were the most likely to be retained after ownership changes. The occupational groups that grew in the ownership change subsample while they shrank in the control subsample (those occupations located in quadrant II) were food preparation and serving related; transportation and material moving; installation, maintenance, and repair; and building and grounds cleaning and maintenance occupations. Occupational groups that grew by more in the ownership change subsample than in the control subsample (those located to the left of the diagonal in quadrant I) included protective service; health care support; health care practitioner and technical; education, training, and library; community and social services; and construction and extraction occupations. The types of jobs that were less likely or more likely to be retained after ownership changes varied by industry, as the next section details.

## Changes within occupational groups

Examining detailed changes within occupational groups helps uncover trends among different business functions, such as human resources, marketing, and sales. The occupations discussed in this section and listed in table 4

Table 4. Difference between predecessor and successor occupational employment level and share in the ownership change subsample, by detailed occupation, 2000-06

| Occupation | Predecessor employment level | Successor employment level | Predecessor employment share | Successor employment share | Difference in share ${ }^{1}$ | Percent change in share ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Management occupations |  |  |  |  |  |  |
| Chief executives ................................................................ | 4,000 | 2,514 | 0.2 | 0.13 | -0.07 | -32.95 |
| Marketing managers. | 3,802 | 2,286 | . 19 | . 12 | -. 07 | -35.83 |
| Compensation and benefits managers............................. | 534 | 783 | . 03 | . 04 | . 01 | 56.23 |
| Business and financial operations occupations Claims adjusters, examiners, and investigators. | 1,973 | 1,249 | . 10 | . 07 | -. 03 | -32.41 |
| Compliance officers, except agriculture, construction, health and safety, and transportation $\qquad$ | 1,172 | 1,660 | . 06 | . 09 | . 03 | 51.12 |
| Logisticians ........................................................................ | 698 | 1,536 | . 03 | . 08 | . 05 | 134.68 |
| Management analysts ...................................................... | 10,323 | 6,430 | . 51 | . 34 | -. 17 | -33.53 |
| Financial analysts...................................................................... | 5,110 | 3,170 | . 25 | . 17 | -. 09 | -33.81 |
| Computer and mathematical science occupations Computer programmers | 9,777 | 4,261 | . 48 | . 23 | -. 26 | -53.49 |
| Computer systems analysts.......................................... | 14,673 | 9,258 | . 73 | . 49 | -. 24 | -32.65 |
| Network systems and data communications analysts...... | 2,149 | 4,562 | . 11 | . 24 | . 13 | 126.48 |
| Operations research analysts ............................................. | 2,603 | 1,418 | . 13 | . 08 | -0.05 | -41.86 |
| Architecture and engineering occupations <br> Aerospace engineers. | 1,518 | 932 | . 08 | . 05 | -. 03 | -34.44 |
| Electrical and electronics drafters ..................................... | 864 | 1,143 | . 04 | . 06 | . 02 | 41.12 |
| Mechanical engineering technicians ................................ | 1,441 | 873 | . 07 | . 05 | -. 03 | -35.29 |
| Community and social services occupations Child, family, and school social workers. $\qquad$ | 1,574 | 2,309 | . 08 | . 12 | . 04 | 56.54 |
| Education, training, and library occupations |  |  |  |  |  |  |
| education | 2,456 | 3,440 | . 12 | . 18 | . 06 | 49.47 |
| Special education teachers, middle school ....................... | 575 | 732 | . 03 | . 04 | . 01 | 35.79 |
| Special education teachers, secondary school.................. | 688 | 1,076 | . 03 | . 06 | . 02 | 66.86 |
| Teacher assistants.............................................................. | 5,092 | 8,839 | . 25 | . 47 | . 22 | 85.26 |
| Arts, design, entertainment, sports, and media occupations |  |  |  |  |  |  |
| Graphic designers ............................................................. | 1,609 | 1,968 | . 08 | . 10 | . 02 | 30.61 |
| Merchandise displayers and window trimmers ................ | 867 | 1,081 | . 04 | . 06 | . 01 | 33.02 |
| Coaches and scouts ........................................................... | 530 | 719 | . 03 | . 04 | . 01 | 44.49 |
| Radio and television announcers ...................................... | 522 | 1,019 | . 03 | . 05 | . 03 | 108.11 |
| Reporters and correspondents ......................................... | 593 | 1,113 | . 03 | . 06 | . 03 | 100.34 |
| Technical writers ............................................................... | 972 | 633 | . 05 | . 03 | -. 01 | -30.50 |
| Health care practitioner and technical occupations |  |  |  |  |  |  |
| Physician assistants .......................................................... | 1,716 | 669 | . 09 | . 04 | -. 05 | -58.35 |
| Respiratory therapists........................................................ | 1,676 | 2,391 | . 08 | . 13 | . 04 | 52.29 |
| Diagnostic medical sonographers .................................... | 663 | 852 | . 03 | . 05 | . 01 | 37.08 |
| Radiologic technologists and technicians ........................ | 2,943 | 3,901 | . 15 | . 21 | . 06 | 41.50 |
| Psychiatric technicians ...................................................... | 646 | 1,377 | . 03 | . 07 | . 04 | 127.50 |
| Surgical technologists ...................................................... | 1,557 | 2,016 | . 08 | . 11 | . 03 | 38.26 |
| Medical records and health information technicians ....... | 2,568 | 3,259 | . 13 | . 17 | . 05 | 35.46 |
| Health care support occupations <br> Home health aides $\qquad$ | 15,642 | 21,588 | . 78 | 1.14 | . 37 | 47.30 |
| Medical assistants .............................................................. | 3,033 | 3,916 | . 15 | . 21 | . 06 | 37.79 |
| Medical equipment preparers ............................................ | 641 | 1,190 | . 03 | . 06 | . 03 | 97.80 |
| Protective service occupations <br> Private detectives and investigators $\qquad$ | 742 | 1,306 | . 04 | . 07 | . 03 | 87.77 |
| Personal care and service occupations <br> Nonfarm animal caretakers | 516 | 1,231 | . 03 | . 07 | . 04 | 154.30 |
| Residential advisors.......................................................... | 565 | 828 | . 03 | . 04 | . 02 | 56.43 |
| Sales and related occupations Securities, commodities, and financial services sales agents $\qquad$ | 3,039 | 1,943 | . 15 | 0.1 | -. 05 | -31.74 |
| Travel agents ...................................................................... | 663 | 826 | . 03 | . 04 | . 01 | 32.83 |

[^0]Table 4. Continued-Difference between predecessor and successor occupational employment level and share in the ownership change subsample, by detailed occupation, 2000-06

| Occupation | Predecessor employment level | Successor employment level | Predecessor employment share | Successor employment share | Difference in share ${ }^{1}$ | Percent change in share ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Demonstrators and product promoters ............................ | 2,493 | 939 | . 12 | . 05 | -. 07 | -59.76 |
| Real estate sales agents .................................................... | 560 | 758 | . 03 | . 04 | . 01 | 44.77 |
| Office and administrative support occupations Payroll and timekeeping clerks $\qquad$ | 3,241 | 4,104 | . 16 | . 22 | . 06 | 35.12 |
| Credit authorizers, checkers, and clerks............................ | 1,855 | 979 | . 09 | . 05 | -. 04 | -43.63 |
| Interviewers, except eligibility and loan ........................... | 2,987 | 3,761 | . 15 | . 20 | . 05 | 34.39 |
| Meter readers, utilities ....................................................... | 639 | 839 | . 03 | . 04 | . 01 | 40.06 |
| Legal secretaries ............................................................... | 1,758 | 1,117 | . 09 | . 06 | -. 03 | -32.15 |
| Medical secretaries ........................................................... | 3,331 | 5,994 | . 17 | . 32 | . 15 | 92.12 |
| Insurance claims and policy processing clerks.................. | 1,631 | 2,621 | . 08 | . 14 | . 06 | 71.53 |
| Office machine operators, except computer ...................... | 1,825 | 1,135 | . 09 | . 06 | -. 03 | -33.63 |
| Farming, fishing, and forestry occupations Farmworkers, farm and ranch animals $\qquad$ | 550 | 1,025 | . 03 | . 05 | . 03 | 98.53 |
| Construction and extraction occupations <br> Helpers-pipelayers, plumbers, pipefitters, and steamfitters. $\qquad$ | 1,294 | 788 | . 06 | . 04 | -. 02 | -34.95 |
| Installation, maintenance, and repair occupations |  |  |  |  |  |  |
| Control and valve installers and repairers, except mechanical door. $\qquad$ | 729 | 903 | . 04 | . 05 | . 01 | 32.41 |
| Telecommunications line installers and repairers............. | 2,791 | 3,477 | . 14 | . 18 | . 05 | 32.97 |
| Coin, vending, and amusement machine servicers and repairers $\qquad$ | 605 | 885 | . 03 | . 05 | . 02 | 56.00 |
| Production occupations Aircraft structure, |  |  |  |  |  |  |
| Aircraft structure, surfaces, rigging, and systems assemblers $\qquad$ | 1,737 | 508 | . 09 | . 03 | -. 06 | -68.76 |
| Electrical and electronic equipment assemblers............... | 10,291 | 5,960 | . 51 | . 32 | -. 19 | -38.18 |
| Engine and other machine assemblers .............................. | 2,275 | 1,219 | . 11 | . 06 | -. 05 | -42.77 |
| Slaughterers and meatpackers............................................. | 10,402 | 5,007 | . 52 | . 26 | -. 25 | -48.62 |
| Forging machine setters, operators, and tenders, metal and plastic $\qquad$ | 1,831 | 696 | . 09 | . 04 | -. 05 | -59.43 |
| Cutting, punching, and press machine setters, operators, and tenders, metal and plastic. | 11,262 | 6,789 | . 56 | . 36 | -. 20 | -35.66 |
| Multiple machine tool setters, operators, and tenders, metal and plastic $\qquad$ | 4,935 | 2,717 | . 24 | . 14 | -. 10 | -41.23 |
| Bindery workers ................................................................ | 1,710 | 674 | . 08 | . 04 | -. 05 | -57.97 |
| Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers $\qquad$ | 1,729 | 931 | . 09 | . 05 | -. 04 | -42.59 |
| Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders $\qquad$ | 1,554 | 1,018 | . 08 | . 05 | -. 02 | -30.13 |
| Helpers-production workers.............................................. | 13,215 | 16,798 | . 65 | . 89 | . 23 | 35.66 |
| Transportation and material moving occupations |  |  |  |  |  |  |
| Bus drivers, transit and intercity........................................ | 4,929 | 2,464 | . 24 | . 13 | -. 11 | -46.64 |
| Service station attendants ................................................... | 794 | 975 | . 04 | . 05 | . 01 | 31.3 |
| Crane and tower operators .......................................................... | 669 | 853 | . 03 | . 05 | . 01 | 36.25 |

are the 70 occupations with substantial growth or decline ${ }^{11}$ after the ownership changes and with employment of at least 500 in the predecessor and successor groups. The table shows each occupation's employment level and employment share in the ownership change subsample's predecessor group and successor group, and the difference between them. The occupations are categorized by occupational group. Residual ("all other") occupations are not shown.

Changes in employment levels. Occupations with the greatest decline in employment level (by more than 1,500 employees) across all occupational groups in the ownership change subsample were computer programmers, computer systems analysts, four "assembly" production occupations, management analysts, transit and intercity bus drivers, financial analysts, demonstrators and product promoters, and marketing managers. Occupations that exhibited the greatest growth in employment level (by more than 1,500
employees) were home health aides, teacher assistants, production worker helpers, medical secretaries, and network systems and data communications analysts.

Relative changes in employment shares. It is useful to examine in detail the occupational groups that fared poorly after ownership changes. Table 4 also shows (see columns titled "Predecessor employment share" and "Successor employment share") that, in the computer and mathematical science group, which shrank the most in the ownership change subsample and grew in the control subsample, there were decreases in the employment shares of computer programmers, operations research analysts, and computer systems analysts. Network systems and data communications analysts, by contrast, were in higher demand. Among business and financial operations occupations, which had the second-largest difference in employment in the ownership change subsample relative to occupations in the control subsample, financial analysts and management analysts were most likely to be cut. Meanwhile, logisticians and compliance officers (except agriculture, construction, health and safety, and transportation) were most likely to grow. In the management group, compensation and benefits managers saw the greatest employment increase after ownership changes, while marketing managers saw decreases in employment share.

One possible interpretation of these observations is that if the establishment is acquired by an establishment with similar staff, the employees who are more likely to be let go are those who appear to have redundant occupations. For example, an establishment that is acquired may no longer need a separate information technology or marketing department. Instead, it may have an increased need for occupations such as network systems and data communications analysts or human resources personnel to facilitate the organizational transition. Other occupations that deal more directly with customers or output, such as home health aides, medical secretaries, teacher assistants, and production assembly workers, might need to be retained in order to maintain good customer service or productivity. These occupations tend to be closely related to the core output of the establishment, while the others tend to serve as operational support. The decline in certain technical jobs also might be explained by outsourcing, although this interpretation is not examined here. ${ }^{12}$

## Occupational composition by wage range

A brief analysis of occupational employment share by wage range reveals that, after ownership changed, the
wages of the employees performing analytical and administrative work shifted upwards, while the wages of the employees performing low-skilled service work or physical labor shifted downwards. Until November 2005, the OES microdata included data on detailed occupational employment in the wage ranges defined in table $5 .{ }^{13}$ Different occupational groups generally have their employment distributions concentrated in different wage ranges. For instance, management and computer and mathematical occupations were employed mostly in wage ranges starting at $\$ 21.50$ to $\$ 27.24$ and running through $\$ 55.50$ to $\$ 69.99$. Production and personal care and service occupations, however, were employed mostly in ranges beginning at $\$ 6.75$ to $\$ 8.49$ and going through $\$ 17.00$ to $\$ 21.49$. (The actual employment distributions are not shown in the table.)

A shift in employment concentration from relatively lower paid employees to relatively higher paid employees occurred in several occupational groups. In these groups, either high-paid workers were retained or hired more often than low-paid workers, or low-paid workers were more likely to lose their jobs after ownership changes. A shift from low to high wage ranges occurred in analytical and administrative occupational groups such as management; architecture and engineering; computer and mathematical science; business and financial operations; health care practitioner and technical; community and social services; office and administrative support; and arts, design, entertainment, sports, and media, among other occupations. If high pay is correlated with tenure and knowledge, then high-earning workers may be the most costly to replace. This shift from low to high wage ranges also may be a result of businesses laying off workers with less tenure: although workers in analytical and administrative occupations were less likely to be retained after ownership changes, the employees who remained had higher wages.

Conversely, employees who performed low-skilled service, physical labor, or personal service work exhibited a shift toward lower wage ranges, possibly because the lowpaid workers were retained or hired at higher rates than their higher paid counterparts or because higher paid workers received pay cuts. Among these workers were food preparation and serving related, sales and related, protective service, personal care and service, construction and extraction, production, transportation and material moving, and health care support occupations. Although many of these lower skilled service, physical-labor-intensive, or personal service occupations were most likely to be retained after ownership changes, they experienced

downward shifts in their wages. This phenomenon could have occurred either because management was more likely to spare cheaper labor and employees in these occupations were willing to work at lower wages or because higher wage workers were replaced with lower wage workers. Table 5 shows the difference between the predecessor and successor employment shares for each occupational group
in each wage range. ${ }^{14}$ This study does not examine wage range shifts in detailed occupations within occupational groups; therefore, it does not explain whether an occupational group's wages shifted to lower ranges because more low-paid occupations were hired within the group or because more high-paid occupations within the group were laid off or accepted pay cuts.

Table 6. Employment by industry sector, in the ownership change subsample and across all establishments, 2000-06

| Industry | Total employment in predecessor units | Total employment in successor units | Difference between predecessor and successor employment | Percent change from predecessor to successor employment | Percent change betweeen 2002 and 2005 average annual employment, QCEW |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Information........ | 112,318 | 80,285 | -32,033 | -28.52 | -9.16 |
| Professional and technical services ${ }^{1} . . . . . . . . . . . . . . . . ~$ | 80,795 | 61,069 | -19,726 | -24.41 | 6.02 |
| Management of companies and enterprises ${ }^{1}$.... | 26,810 | 21,305 | -5,505 | -20.53 | 2.81 |
| Finance and insurance..................................... | 75,040 | 60,222 | -14,818 | -19.75 | 4.13 |
| Manufacturing................................................ | 490,076 | 425,913 | -64,163 | -13.09 | -6.70 |
| Transportation and warehousing ${ }^{1}$................... | 88,433 | 78,448 | -9,985 | -11.29 | 2.74 |
| Retail trade...................................................... | 247,052 | 229,464 | -17,588 | -7.12 | 1.58 |
| Utilities ............................................................ | 14,661 | 13,766 | -895 | -6.10 | -7.02 |
| Construction ${ }^{1}$................................................... | 62,733 | 61,213 | -1,520 | -2.42 | 8.76 |
| Real estate and rental and leasing ${ }^{1}$.................. | 12,794 | 12,524 | -270 | -2.11 | 4.79 |
|  | 74,235 | 72,673 | -1,562 | -2.10 | 2.41 |
| Other services, except public administration ${ }^{1}$..... | 28,956 | 28,785 | -171 | -. 59 | 1.84 |
| Accommodation and food services................. | 119,095 | 119,452 | 357 | . 30 | 6.61 |
| Arts, entertainment, and recreation ................ | 21,136 | 21,495 | 359 | 1.70 | 3.86 |
| Educational services........................................ | 80,642 | 84,732 | 4,090 | 5.07 | 9.91 |
| Administrative and support and waste management and remediation services ..... | 175,422 | 185,003 | 9,581 | 5.46 | 6.35 |
| Health care and social assistance .................... | 286,663 | 309,902 | 23,239 | 8.11 | 7.01 |
|  | 5,672 | 9,630 | 3,958 | 69.78 | 10.76 |

[^1]Note: Table excludes agriculture, forestry, fishing, and hunting

## Sectors most affected by ownership changes

Table 6 shows total employment by industry sector in the ownership change subsample predecessor and successor groups, as well as the employment change and the percent change in employment from the predecessor to the successor groups. ${ }^{15}$ To provide a basis for comparison with all establishments in the economy, the last column contains the percent change between 2002 and 2005 QCEW average annual private-sector employment. (See also chart 2.)

About half of the sectors contracted in the ownership change subsample while they grew overall in the economy: professional and technical services; management of companies and enterprises; finance and insurance; transportation and warehousing; retail trade; construction; real estate and rental and leasing; wholesale trade; and other services, except public administration. Moreover, all sectors except mining and except health care and social assistance either shrank in the ownership change subsample while they grew overall, or grew in the subsample by a smaller percentage than they grew overall. The information and manufacturing sectors contracted substantially more in the
ownership change subsample than they contracted across all establishments. In the information sector, employment in establishments that changed ownership fell by 29 percent, while employment in all establishments in this sector fell by 9 percent over the same period. Sectors that grew in the ownership change subsample, but by less than the industry grew as whole, were accommodation and food services; arts, entertainment, and recreation; administrative and support and waste management and remediation services; and educational services. Mining grew the most in the ownership change subsample relative to the economy. Much of this growth was due to oil and gas extraction and will be discussed in the next section.

That some industries experienced particularly large employment declines in the ownership change subsample relative to the economy as a whole might explain some large declines in occupational groups that are central to those industries. For instance, in May 2006, sales and related occupations made up 54 percent of the retail trade industry. The large employment drop in retail trade establishments that changed ownership (despite overall expansion) between 2000 and 2006 might explain the cross-industry observation that sales and related occu-

pations shrank by more in the ownership change subsample than they shrank across establishments in the control subsample. Similarly, one might speculate that the contraction in professional and technical services establishments and in information establishments contributed to the large decline in computer and mathematical science occupations. Likewise, the contraction in manufacturing establishments might have contributed to the large decline in production occupations, which made up 53 percent of the manufacturing sector in May 2006. Without a closer look at the data, however, the relationship between the decline in the industry sector and the overall employment decline of core occupations is not entirely clear. To see whether industries are more likely to reduce or retain employment in core occupations or in operational support occupations, the next section examines changes in the occupational composition of detailed industries.

## Occupational change by detailed industry

In every establishment, workers in certain occupations are central to its industry's core business function, and these
workers tend to be employed in relatively high concentrations. Establishments also employ operational support, or auxiliary, workers in occupations that support the core business function. Occupations that serve as support in some industries can be the core of other industries. For example, in the accounting services industry, billing clerks might be a core occupation while janitors are an operational support occupation. By contrast, in the building services industry, janitors might be considered the core occupation while billing clerks are an operational support occupation. Core occupations can be thought of as those most directly related to the establishment's output.

Earlier studies of OES data show that when establishments shrink, they tend to shed support jobs at higher rates than they shed core occupations. ${ }^{16}$ In what follows, 10 industries are examined in further detail to see whether, when the declines in employment accompany ownership changes, the declines also are concentrated in support occupations. The results show that 5 of the highlighted industries experienced a shift in their employment concentration from support to core occupations after an ownership change, 3 others experienced a shift in employment concentration from core occupations to support oc-
cupations, and 2 had little difference in the overall mix of core and support occupations after the change.

The 10 industries that contracted the most after ownership changes were computer systems design and related services, wired telecommunication carriers, motor vehicle parts manufacturing, department stores, grocery stores, securities and commodity contracts intermediation and brokerage, management of companies and enterprises, scheduled air transportation, depository credit intermediation, and plastics product manufacturing. These industries either expanded in the overall economy or shrank by a lesser magnitude in the overall economy than they did in the ownership change subsample. At the other end of the spectrum, oil and gas extraction experienced the highest growth in the ownership change subsample (767 percent) and the third-highest increase in employment level after ownership changes, and the industry grew by a substantially greater magnitude in the subsample than it did in the economy. Tables 7-10 show how the employment of core and support occupations changed after an ownership change in these selected industries. The percentage of industry employment in the predecessor establishments represents each occupational group's employment share in the industry, out of total industry employment of the predecessor establishments. Likewise, the percentage of industry employment in the successor establishments represents each occupational group's employment share in the industry, out of total industry employment in the successor establishments.

## Industries with increased concentrations of core occupations.

 In most industries with large employment declines, a change in ownership resulted in an increased employment share of core occupations and a decreased share of operational support occupations. For example, as shown in table 7, in scheduled air transportation there was an increase in the share of core occupations-personal care and service occupations, which include flight attendants; and transportation and material moving occupations, which include pilots. At the same time, there was a decrease in the share of support occupations-office and administrative support; and installation, maintenance, and repair occupations. It is possible that the decrease was due to increased outsourcing in the industry, although this article does not examine that possibility.Similarly, wired telecommunications carriers that changed ownership had increased shares of installation, maintenance, and repair; computer and mathematical science; and architecture and engineering occupations, and decreased shares of office and administrative support, management, and business
and financial operations occupations. Finally, in securities and commodity contracts intermediation and brokerage, there likewise was an increase in the shares of core occupations such as business and financial operations occupations and sales and related occupations (the latter of which includes securities, commodities, and financial services sales agents) and a decline in support occupations, with computer and mathematical science occupations falling from 28 percent before the ownership changes to 14 percent afterwards and office and administrative support occupations dropping from 19 percent to 15 percent of total employment.

In depository credit intermediation (which shrank in the ownership change subsample, but grew overall in the economy), which consists of credit unions and commercial banks, the share of core business and financial operations occupations rose from 14 percent to 18 percent of total employment. The share of core office and administrative support occupations, which include tellers and similar core occupations employed in banks, was relatively stable at 61 percent, and sales and related occupations increased from 4 percent to 6 percent of total employment in the industry. The share of support occupations, such as management, computer and mathematical science, and legal occupations, fell.

Like the aforementioned industries, management of companies and enterprises (which shrank in the ownership change subsample, but grew overall in the economy), in which operational support is the core business function, had increases in all core occupations and decreases in nonessential functions. This observation confirms previous behavioral research which found that when company headquarters and auxiliary offices undergo mergers or acquisitions, their chief executives tend to protect their immediate subordinates, managers, and administrators. ${ }^{17}$

## Industries with decreased concentrations of core occupations.

 Sometimes a change in ownership resulted in a decreased employment share of core occupations and an increased share of operational support occupations. Industries that followed this trend included service industries such as grocery stores and department stores. In department stores and grocery stores, sales and related occupations represent the core of the business function. After an ownership change, the share of sales and related occupations in department stores fell from 73 percent to 67 percent, as shown in table 8 . Similarly, in grocery stores, the share of sales and related occupations fell from 38 percent to 36 percent. In both of these industries, the share of management occupations and office and administrative support occupations rose after a change in ownership.In plastics product manufacturing establishments, the

Table 7. Industries with increased concentrations of core occupations, 2000-06

| Occupational major group | Predecessor employment | Successor employment | Predecessor employment share | Successor employment share | Percentagepoint difference |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS 4811, Scheduled air transportation |  |  |  |  |  |
| Total, all occupations................................. | 25,159 | 20,549 | $\ldots$ | $\ldots$ | ... |
| Management | 376 | 188 | 1.49 | . 91 | -. 58 |
| Business and financial operations .................... | 767 | 684 | 3.05 | 3.33 | . 28 |
| Computer and mathematical science ............... | 115 | 139 | . 46 | . 68 | . 22 |
| Architecture and engineering ......................... | 640 | 170 | 2.54 | . 83 | -1.72 |
| Legal ................................................................. | 11 | 11 | . 04 | . 05 | . 01 |
| Arts, design, entertainment, sports, and media ... | 133 | 89 | . 53 | . 43 | -. 10 |
| Health care practitioner and technical ............ | 12 | 15 | . 05 | . 07 | . 03 |
| Protective service ............................................ | 11 | 7 | . 04 | . 03 | -. 01 |
| Food preparation and serving related ............. | 91 | 65 | . 36 | . 32 | -. 05 |
| Personal care and service ................................ | 6,892 | 6,234 | 27.39 | 30.34 | 2.94 |
| Sales and related ............................................. | 178 | 153 | . 71 | . 74 | . 04 |
| Office and administrative support ................... | 7,356 | 5,902 | 29.24 | 28.72 | -. 52 |
| Installation, maintenance, and repair .............. | 3,531 | 1,761 | 14.03 | 8.57 | -5.46 |
| Transportation and material moving ............... | 4,968 | 5,074 | 19.75 | 24.69 | 4.95 |
| NAICS 5171, Wireless telecommunication carriers |  |  |  |  |  |
| Total, all occupations ................................... | 42,629 | 30,277 | ... | ... | .... |
| Management ................................................... | 3,351 | 834 | 7.86 | 2.75 | -5.11 |
| Business and financial operations .................... | 4,807 | 3,293 | 11.28 | 10.88 | -. 40 |
| Computer and mathematical science ............... | 5,915 | 5,990 | 13.88 | 19.78 | 5.91 |
| Architecture and engineering ......................... | 3,116 | 2,570 | 7.31 | 8.49 | 1.18 |
| Life, physical, and social science ...................... | 416 | 152 | . 98 | . 50 | -. 47 |
| Legal ................................................................ | 161 | 33 | . 38 | . 11 | -. 27 |
| Arts, design, entertainment, sports, and media ... | 575 | 78 | 1.35 | . 26 | -1.09 |
| Health care practitioner and technical ............ | 4 | 7 | . 01 | . 02 | . 01 |
| Protective service ............................................ | 12 | 6 | . 03 | . 02 | -. 01 |
| Building and grounds cleaning and maintenance $\qquad$ | 26 | 13 | . 06 | . 04 | -. 02 |
| Sales and related ............................................ | 4,114 | 2,543 | 9.65 | 8.40 | -1.25 |
| Office and administrative support ................... | 13,138 | 7,404 | 30.82 | 24.45 | -6.37 |
| Construction and extraction ........................... | 8 | 5 | . 02 | . 02 | -. 002 |
| Installation, maintenance, and repair .............. | 6,937 | 7,277 | 16.27 | 24.03 | 7.76 |
| Production ....................................................... | 3 | 33 | . 01 | . 11 | . 10 |
| Transportation and material moving .............. | 21 | 39 | . 05 | . 13 | . 08 |
| NAICS 5231, Securities and commodity contracts intermediation and brokerage |  |  |  |  |  |
| Total, all occupations ................................... | 9,093 | 3,482 | ... | ... | $\ldots$ |
| Management .................................................. | 1,711 | 687 | 18.82 | 19.73 | . 91 |
| Business and financial operations ................... | 1,370 | 1,214 | 15.07 | 34.87 | 19.80 |
| Computer and mathematical science ............... | 2,533 | 489 | 27.86 | 14.04 | -13.81 |
| Legal ................................................................. | 119 | 26 | 1.31 | . 75 | -. 56 |
| Sales and related ............................................. | 992 | 540 | 10.91 | 15.51 | 4.60 |
| Office and administrative support .................... | 1,735 | 509 | 19.08 | 14.62 | -4.46 |
| NAICS 5221, Depository credit intermediation |  |  |  |  |  |
| Total, all occupations................................. | 28,275 | 21,465 | ... | ... | ... |
| Management ................................................... | 2,881 | 1,774 | 10.19 | 8.26 | -1.93 |
| Business and financial operations ................... | 3,860 | 3,762 | 13.65 | 17.52 | 3.87 |
| Computer and mathematical science ............... | 2,718 | 1,378 | 9.61 | 6.42 | -3.20 |
| Architecture and engineering ......................... | 88 | 59 | . 31 | . 27 | -. 04 |
| Life, physical, and social science ...................... | 45 | 49 | . 16 | . 23 | . 07 |
| Legal ................................................................ | 80 | 19 | . 28 | . 09 | -. 19 |
| Arts, design, entertainment, sports, and media ... | 116 | 59 | . 41 | . 27 | -. 14 |
| Protective service ............................................ | 51 | 29 | . 18 | . 14 | -. 05 |
| Building and grounds cleaning and maintenance $\qquad$ | 43 | 25 | . 15 | . 12 | -. 04 |

Table 7. Continued-Industries with increased concentrations of core occupations, 2000-06

| Occupational major group | Predecessor employment | Successor employment | Predecessor employment share | Successor employment share | Percentagepoint difference |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sales and related. | 1,081 | 1,249 | 3.82 | 5.82 | 1.99 |
| Office and administrative support.................... | 17,255 | 13,010 | 61.03 | 60.59 | -. 44 |
| Installation, maintenance, and repair ................ | 40 | 47 | . 14 | . 22 | . 08 |
| Transportation and material moving................ | 9 | 4 | . 03 | . 02 | -. 01 |
| NAICS 5511, Management of companies and enterprises |  |  |  |  |  |
| Total, all occupations ................................... | 26,541 | 20,953 | ... | ... | ... |
| Management ..................................................... | 3,829 | 3,691 | 14.43 | 17.62 | 3.19 |
| Business and financial operations..................... | 3,480 | 3,581 | 13.11 | 17.09 | 3.98 |
| Computer and mathematical science............... | 1,930 | 1,748 | 7.27 | 8.34 | 1.07 |
| Architecture and engineering ........................... | 788 | 778 | 2.97 | 3.71 | . 74 |
| Life, physical, and social science ....................... | 441 | 324 | 1.66 | 1.55 | -. 12 |
| Community and social services......................... | 82 | 64 | . 31 | . 31 | . 00 |
| Legal................................................................. | 218 | 211 | . 82 | 1.01 | . 19 |
| Education, training, and library......................... | 8 | 30 | . 03 | . 14 | . 11 |
| Arts, design, entertainment, sports, and media.... | 257 | 324 | . 97 | 1.55 | . 58 |
| Health care practitioner and technical.............. | 736 | 59 | 2.77 | . 28 | -2.49 |
| Protective service .............................................. | 148 | 91 | . 56 | . 43 | -. 12 |
| Food preparation and serving related.............. | 410 | 101 | 1.54 | . 48 | -1.06 |
| Building and grounds cleaning and maintenance $\qquad$ | 370 | 132 | 1.39 | . 63 | -. 76 |
| Sales and related ............................................... | 1,369 | 1,066 | 5.16 | 5.09 | -. 07 |
| Office and administrative support.................... | 7,478 | 6,122 | 28.18 | 29.22 | 1.04 |
| Construction and extraction ............................. | 259 | 139 | . 98 | . 66 | -. 31 |
| Installation, maintenance, and repair ............... | 886 | 530 | 3.34 | 2.53 | -. 81 |
| Production ........................................................ | 1,892 | 670 | 7.13 | 3.20 | -3.93 |
| Transportation and material moving ................ | 1,400 | 1,283 | 5.27 | 6.12 | . 85 |

Note: Detailed data on employment may not sum to total employment because not all occupational groups are listed.
share of production occupations fell from 59 percent to 57 percent and the share of transportation and material moving occupations also fell. By contrast, the share of office and administrative support occupations and management occupations rose. This conjunction of events supports Donald Siegel and Frank Lichtenberg's finding that in manufacturing firms, only production personnel, as opposed to nonproduction employees, experienced relative employment declines. ${ }^{18}$

Industries without a clear shift in either core or support occupations. Two of the 10 industries examined in this section show little difference in the overall mix of core and support occupations. However, there was a shift in employment among the core occupations in these industries. As table 9 shows, in motor vehicle parts manufacturing the share of labor-intensive production occupations rose from 65 percent to 67 percent while architecture and engineering occupations; installation, maintenance, and repair
occupations; and transportation and material moving occupations each decreased slightly. There was little change in support occupations, such as management occupations and office and administrative support occupations.

In computer systems design and related services (which shrank in the ownership change subsample, but grew overall in the economy), there were shifts within the core and support occupational groups, but there was no clear shift toward core occupations. Among core occupations, computer and mathematical science occupations and architecture and engineering occupations saw their employment shares remain relatively stable while the share of installation, maintenance, and repair occupations, which include computer repairers, increased from 2 percent to 5 percent. Among support occupations, office and administrative support occupations shrank while sales and related occupations grew. Core detailed occupations that increased the most included sales engineers; logisticians; network systems and data communications

Table 8. Industries with decreased concentrations of core occupations, 2000-06

| Occupational major group | Predecessor employment | Successor employment | Predecessor employment share | Successor employment share | Percentagepoint difference |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS 4521, Department stores |  |  |  |  |  |
| Total, all occupations................................. | 72,158 | 63,752 | $\ldots$ | $\ldots$ | $\ldots$ |
| Management ................................................... | 1,072 | 1,026 | 1.49 | 1.61 | . 12 |
| Business and financial operations .................... | 475 | 232 | . 66 | . 36 | -. 29 |
| Computer and mathematical science ............... | 13 | 8 | . 02 | . 01 | -. 01 |
| Arts, design, entertainment, sports, and media $\qquad$ | 540 | 571 | . 75 | . 90 | . 15 |
| Health care practitioner and technical ............ | 637 | 622 | . 88 | . 98 | . 09 |
| Health care support ......................................... | 35 | 29 | . 05 | . 05 | $\left.{ }^{1}\right)$ |
| Protective service ........................................... | 1,350 | 1,295 | 1.87 | 2.03 | . 16 |
| Food preparation and serving related ............. | 759 | 576 | 1.05 | . 90 | -. 15 |
| Building and grounds cleaning and maintenance $\qquad$ | 230 | 342 | . 32 | . 54 | . 22 |
| Personal care and service ................................ | 715 | 823 | . 99 | 1.29 | . 30 |
| Sales and related ............................................. | 52,902 | 42,904 | 73.31 | 67.30 | -6.02 |
| Office and administrative support ................... | 11,556 | 13,805 | 16.01 | 21.65 | 5.64 |
| Construction and extraction ........................... | 38 | 24 | . 05 | . 04 | -. 02 |
| Installation, maintenance, and repair .............. | 216 | 310 | . 30 | . 49 | . 19 |
| Production ....................................................... | 387 | 369 | . 54 | . 58 | . 04 |
| Transportation and material moving ............... | 1,218 | 816 | 1.69 | 1.28 | -. 41 |
| NAICS 4451, Grocery stores |  |  |  |  |  |
| Total, all occupations................................. | 83,107 | 75,679 | $\ldots$ | $\ldots$ | $\ldots$ |
| Management .................................................. | 1,186 | 1,107 | 1.43 | 1.46 | . 04 |
| Business and financial operations ................... | 172 | 167 | . 21 | . 22 | . 01 |
| Computer and mathematical science ............... | 9 | 16 | . 01 | . 02 | . 01 |
| Arts, design, entertainment, sports, and media .... | 241 | 295 | . 29 | . 39 | . 10 |
| Health care practitioner and technical ............ | 1,554 | 1,830 | 1.87 | 2.42 | . 55 |
| Health care support ......................................... | 368 | 372 | . 44 | . 49 | . 05 |
| Protective service ............................................ | 451 | 239 | . 54 | . 32 | -. 23 |
| Food preparation and serving related ............. | 8,731 | 8,915 | 10.51 | 11.78 | 1.27 |
| Building and grounds cleaning and maintenance $\qquad$ | 883 | 610 | 1.06 | . 81 | -26 |
| Personal care and service ................................ | 807 | 37 | . 97 | . 05 | -. 92 |
| Sales and related ............................................ | 31,705 | 27,393 | 38.15 | 36.19 | -1.96 |
| Office and administrative support ................... | 24,598 | 22,598 | 29.60 | 29.86 | . 26 |
| Farming, fishing, and forestry ......................... | 108 | 53 | . 13 | . 07 | -. 06 |
| Installation, maintenance, and repair .............. | 386 | 218 | . 46 | . 29 | -. 18 |
| Production ...................................................... | 5,066 | 4,959 | 6.10 | 6.55 | . 46 |
| Transportation and material moving ............... | 6,842 | 6,870 | 8.23 | 9.08 | . 84 |
| NAICS 3261, Plastics product manufacturing |  |  |  |  |  |
| Total, all occupations | 19,991 | 17,835 | 79 | 97 | 18 |
| Management | 758 | 708 | 3.79 | 3.97 | . 18 |
| Business and financial operations ................... | 265 | 348 | 1.33 | 1.95 | . 63 |
| Computer and mathematical science ............... | 59 | 56 | . 30 | . 31 | . 02 |
| Architecture and engineering ......................... | 595 | 815 | 2.98 | 4.57 | 1.59 |
| Life, physical, and social science ..................... | 77 | 9 | . 39 | . 05 | -. 33 |
| Arts, design, entertainment, sports, and media $\qquad$ | 29 | 38 | . 15 | . 21 | . 07 |
| Health care practitioner and technical ............ | 3 | 12 | . 02 | . 07 | . 05 |
| Building and grounds cleaning and maintenance $\qquad$ | 98 | 89 | . 49 | . 50 | . 01 |
| Sales and related ............................................ | 202 | 282 | 1.01 | 1.58 | . 57 |
| Office and administrative support ................... | 1,509 | 1,435 | 7.55 | 8.05 | . 50 |
| Construction and extraction ........................... | 346 | 116 | 1.73 | . 65 | -1.08 |
| Installation, maintenance, and repair .............. | 1,384 | 1,115 | 6.92 | 6.25 | -. 67 |
| Production ...................................................... | 11,708 | 10,191 | 58.57 | 57.14 | -1.43 |
| Transportation and material moving ............... | 2,954 | 2,616 | 14.78 | 14.67 | -. 11 |

[^2]Table 9. Industries without a clear shift in either core or support occupations, 2000-06

| Occupational major group | Predecessor employment | Successor employment | Predecessor employment share | Successor employment share | Percentagepoint difference |
| :---: | :---: | :---: | :---: | :---: | :---: |
| nAICs 3363, Motor vehicle parts manufacturing |  |  |  |  |  |
| Total, all occupations................................ | 35,706 | 26,443 | $\ldots$ | ... | $\ldots$ |
| Management .................................................. | 1,045 | 716 | 2.93 | 2.71 | -. 22 |
| Business and financial operations .................. | 717 | 618 | 2.01 | 2.34 | . 33 |
| Computer and mathematical science ............. | 132 | 122 | . 37 | . 46 | . 09 |
| Architecture and engineering ......................... | 2,834 | 1,811 | 7.94 | 6.85 | -1.09 |
| Life, physical, and social science ....................... | 49 | 58 | . 14 | . 22 | . 08 |
| Arts, design, entertainment, sports, and media $\qquad$ | 61 | 75 | . 17 | . 28 | . 11 |
| Health care practitioner and technical ........... | 37 | 38 | . 10 | . 14 | . 04 |
| Protective service ........................................... | 36 | 33 | . 10 | . 12 | . 02 |
| Building and grounds cleaning and maintenance $\qquad$ | 154 | 103 | . 43 | . 39 | -. 04 |
| Sales and related ............................................. | 474 | 312 | 1.33 | 1.18 | -. 15 |
| Office and administrative support .................. | 1,610 | 1,287 | 4.51 | 4.87 | . 36 |
| Construction and extraction ........................... | 537 | 378 | 1.50 | 1.43 | -. 07 |
| Installation, maintenance, and repair ............. | 2,075 | 1,186 | 5.81 | 4.49 | -1.33 |
| Production ...................................................... | 23,033 | 17,730 | 64.51 | 67.05 | 2.54 |
| Transportation and material moving .............. | 2,910 | 1,976 | 8.15 | 7.47 | -. 68 |
| NAICS 5415, Computer systems design and related services |  |  |  |  |  |
| Total, all occupations................................ | 33,688 | 15,081 | ... | ... | ... |
| Management .................................................. | 2,937 | 1,196 | 8.72 | 7.93 | -. 79 |
| Business and financial operations ................... | 3,520 | 1,507 | 10.45 | 9.99 | -. 46 |
| Computer and mathematical science............... | 15,005 | 6,792 | 44.54 | 45.04 | . 50 |
| Architecture and engineering ......................... | 2,519 | 936 | 7.48 | 6.21 | -1.27 |
| Life, physical, and social science ..................... | 113 | 93 | . 34 | . 62 | . 28 |
| Legal ............................................................... | 36 | 16 | . 11 | . 11 | $\left.{ }^{1}\right)$ |
| Arts, design, entertainment, sports, and media $\qquad$ | 595 | 269 | 1.77 | 1.78 | . 02 |
| Protective service ........................................... | 54 | 24 | . 16 | . 16 | ${ }^{1}$ ) |
| Sales and related ............................................ | 1,025 | 801 | 3.04 | 5.31 | 2.27 |
| Office and administrative support .................. | 6,767 | 2,535 | 20.09 | 16.81 | -3.28 |
| Installation, maintenance, and repair ............. | 533 | 717 | 1.58 | 4.75 | 3.17 |
| Production ...................................................... | 471 | 66 | 1.40 | . 44 | -. 96 |
| Transportation and material moving .............. | 65 | 78 | . 19 | . 52 | . 32 |

${ }^{1}$ Slight negative percentage-point difference.
Nоте: Detailed data on employment may not sum to total employment because not all occupational groups are listed.
analysts; computer software engineers, systems software; computer software engineers, applications; and computer support specialists. Meanwhile, the core detailed occupations that decreased the most after a change in ownership included industrial engineers; computer specialists, all other; computer programmers; and computer hardware engineers.

An example of an industry that grew after ownership changes. The same study which found that shrinking establishments
shed support occupations first also found that growing establishments add support occupations first. ${ }^{19}$ In order to contrast employment changes among industries that grew after ownership changes with those which declined, one growing industry is examined in detail.
The oil and gas extraction industry (which grew by a greater magnitude in the subsample than it did overall) exhibited a drastic shift from essential labor-intensive occupational groups to operational support occupations, despite the fact that each occupational group increased in

Table 10. Example of an industry that grew after ownership change, 2000-06

| Occupational major group | Predecessor employment | Successor employment | Predecessor employment share | Successor employment share | Percentagepoint difference |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NAICS 2111, Oil and gas extraction |  |  |  |  |  |
| Total, all occupations................................ | 441 | 3,824 | $\ldots$ | ... | $\ldots$ |
| Management .................................................. | 36 | 534 | 8.16 | 13.96 | 5.80 |
| Business and financial operations ................... | 30 | 997 | 6.80 | 26.07 | 19.27 |
| Computer and mathematical science .............. | 8 | 224 | 1.81 | 5.86 | 4.04 |
| Architecture and engineering ......................... | 33 | 329 | 7.48 | 8.60 | 1.12 |
| Life, physical, and social science ..................... | 10 | 400 | 2.27 | 10.46 | 8.19 |
| Legal ................................................................ | 2 | 139 | . 45 | 3.63 | 3.18 |
| Sales and related ........................................... | 2 | 200 | . 45 | 5.23 | 4.78 |
| Office and administrative support .................. | 68 | 486 | 15.42 | 12.71 | -2.71 |
| Construction and extraction .......................... | 126 | 210 | 28.57 | 5.49 | -23.08 |
| Installation, maintenance, and repair ............. | 31 | 64 | 7.03 | 1.67 | -5.36 |
| Production ..................................................... | 28 | 76 | 6.35 | 1.99 | -4.36 |
| Transportation and material moving .............. | 63 | 117 | 14.29 | 3.06 | -11.23 |

Note: Detailed data on employment may not sum to total employment because not all occupational groups are listed.
employment level in the successor establishments. Core construction and extraction occupations in the industry held a dominant 29-percent share before ownership changes, but only a 6 -percent share afterwards, while the share of support business and financial operations occupations increased from almost 7 percent to a dominant 26 percent after ownership changes. In addition to construction and extraction occupations, the following laborintensive occupational groups decreased in employment share after ownership changes: installation, maintenance, and repair; production; and transportation and material moving occupations. In addition to business and financial operations occupations, the following operational support occupations increased in employment share after ownership changes: management; computer and mathematical science; architecture and engineering; life, physical, and social science; and legal occupations. These findings in the establishments that changed ownership in the oil and gas extraction industry are consistent with those of a separate study of recent trends in occupational employment across all establishments in the industry. ${ }^{20}$ This research found that, during the recent spate of oil and gas price increases, the overall staffing of the industry was shifting away from extraction activities and toward exploration.

## Occupational employment by establishment size

This final section shows that changes in occupational com-
position that followed ownership changes varied by the size of the establishment. Establishments were grouped into five size classes before and after the ownership change: 1 to 9 employees; 10 to 49 employees; 50 to 249 employees; 250 to 999 employees; and 1,000 or more employees. In order to focus on changes in occupational composition within size classes, the subsample was then divided into five size groups based on deviations of fewer than two size classes: very small, small, medium, large, and very large. ${ }^{21}$ Establishments chosen for the study were limited to the 21,923 out of the 22,198 establishments that changed by fewer than two size classes: 17,166 establishments that did not change size class, 2,598 establishments that decreased by one size class, and 2,159 establishments that increased by one size class. ${ }^{22}$ As was done in the industry analysis, the percent employment of each occupational group in predecessor and successor establishments was calculated for every size group. The predecessor employment share represents the percentage of occupational employment out of total predecessor employment in the size group, and the successor employment share represents the percentage of occupational employment out of total successor employment in the size group. As before, growth indicates growth in the employment share, or relative importance of the occupation, not necessarily growth in the employment level. The changes in occupational share are shown in table 11.

Five occupational groups grew in establishments of all sizes: life, physical, and social science; health care practi-

Table 11. Percentage-point difference between predecessor and successor employment share in the ownership
change subsample, by establishment size, 2000-06

| Occupational major group | Establishment size |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Very small | Small | Medium | Large | Very large |
| Management. | -1.03 | -1.33 | -0.86 | -0.33 | -1.14 |
| Business and financial operations .......................................... | . 64 | . 52 | . 13 | ${ }^{(1)}$ | -1.48 |
| Computer and mathematical science ........................... | -. 04 | . 15 | . 09 | . 10 | -2.62 |
| Architecture and engineering............................................... | -. 04 | . 05 | . 06 | -. 11 | -. 26 |
| Life, physical, and social science............................................. | . 02 | . 13 | . 03 | . 06 | . 02 |
| Community and social services .............................................. | . 08 | . 04 | -. 08 | . 18 | . 28 |
|  | (') | -. 04 | . 03 | -. 06 | -. 04 |
| Education, training, and library ...................................... | . 30 | . 10 | . 34 | . 31 | 1.54 |
| Arts, design, entertainment, sports, and media. $\qquad$ | -. 15 | . 23 | . 02 | (') | -. 30 |
| Health care practitioner and technical ........................... | . 14 | . 17 | . 29 | 1.06 | 2.86 |
|  | . 42 | . 36 | . 22 | . 97 | 1.58 |
|  | . 02 | . 27 | 1.04 | . 83 | . 63 |
| Food preparation and serving related ............................. | . 26 | -. 46 | -. 02 | . 21 | . 79 |
| Building and grounds cleaning and maintenance. $\qquad$ | . 19 | . 04 | $\left.{ }^{1}\right)$ | -. 48 | . 56 |
| Personal care and service........................................................ | -. 40 | -. 07 | . 07 | -. 36 | . 50 |
| Sales and related.................................................................... | -.78 | -. 78 | -1.04 | -1.19 | -. 73 |
| Office and administrative support......................................... | -1.10 | -. 22 | -. 60 | -. 11 | -. 36 |
| Farming, fishing, and forestry ............................................... | . 07 | . 08 | $\left.{ }^{1}\right)$ | . 01 | . 03 |
| Construction and extraction....................................... | . 60 | . 09 | -. 01 | . 11 | . 04 |
| Installation, maintenance, and repair............................. | -. 33 | -. 11 | . 02 | . 47 | -. 45 |
|  | . 50 | . 45 | -. 03 | -1.21 | -2.24 |
| Transportation and material moving ............................. | . 64 | . 33 | . 30 | -. 47 | . 81 |

tioner and technical; health care support; education, training, and library; and protective service occupations. In contrast, three occupational groups shrank in establishments of all sizes: management occupations (with its decrease the most in small, very small, and very large establishments), sales and related occupations (with its decrease the most in medium and large establishments), and office and administrative support occupations (with its decrease the most in very small establishments). The direction and magnitude of changes in all other occupational groups, however, varied.

Analytical and production occupations-business and financial operations; architecture and engineering; legal; arts, design, entertainment, sports, and media; and production occupations-did not grow in large and very large establishments. Service occupations-personal care and service; food preparation and serving related; community and social services; health care support; health care practitioner and technical; education, training, and library; building and grounds cleaning and maintenance; and transportation and material moving occupations-tended to grow the most in very large establishments.

One interesting observation is that production occupations grew only in very small or small establishments
and shrank in larger establishments. In fact, there was an inverse correlation between the establishment size and the effect of ownership change on production occupations. This correlation may be the result of larger companies being able to capture economies of scale. Another observation is that computer and mathematical occupations were fairly stable in all but the very large establishments. After ownership changes, the share of computer and mathematical occupations fell by 2.6 percent, the largest change of all occupational groups in any establishment size.

An overview by size group also reveals some trends. Very small predecessor establishments, on the whole, were dominated by sales and related occupations and office and administrative support occupations. After ownership changes, the greatest decreases were in management, office and administrative support, and sales and related occupations, and the greatest increases were in business and financial operations and transportation and material moving occupations. In the small size group, the greatest changes were, again, decreases in management occupations and sales and related occupations and an increase in business and financial operations occupations.

In the medium size group, the greatest changes were an increase in protective service occupations and decreases in sales
and related occupations and management occupations. In the large size group, the greatest changes were an increase in health care practitioner and technical occupations and decreases in production occupations and sales and related occupations. Finally, in the very large size group, the greatest changes were an increase in health care practitioner and technical occupations and health care support occupations and decreases in computer and mathematical science, production, business and financial operations, and management occupations.

OCCUPATIONS THAT WERE LEAST LIKELY to be retained after ownership changes were those which performed analytical, clerical, and production work, and most of these groups' wages shifted toward higher ranges. These occupations tended to be support occupations in the industries in which their employment shares declined. Some of them declined in establishments of all sizes, although many shrank the most in large and very large establishments. Analytical and production occupa-
tions did not grow in large establishments.
In contrast, many of the jobs that were more likely to be retained after ownership changes were those which performed service work, such as health care and education, and most of these groups' wages shifted toward lower ranges. Very large establishments were most likely to retain their service occupations after changing ownership.

This article leaves room for future research on the effect of ownership changes on occupational employment and wages. The methodology for identifying specific types of ownership changes and capturing more predecessor and successor establishment staffing data can be refined. Further regression analysis can be conducted on the effect of ownership changes on core and support business functions, on wages by detailed occupation, and on staffing by industry or geographic location. OES data are an important input in understanding and predicting the labor market outcomes of business dynamics.

## Notes

${ }^{1}$ Counts include mergers, full- or partial-interest acquisitions, divestitures, and leveraged buyouts valued at $\$ 5$ million. See Statistical Abstract of the United States, 2006 (U.S. Census Bureau, 2007), Table 751, "Mergers and Acquisitions-Summary, 1990 to 2003."

2 "What Goes Up, Must Come Down?" Mergers \&o Acquisitions: The Dealermaker's Journal, July 2007, pp. 10-11; on the Internet at search.ebscohost. com.proxy2.library.jhu.edu/login.aspx?direct=true\&db=buh\&AN=25593842 \&site=ehost-live (visited Sept. 8, 2007).
${ }^{3}$ Donald Siegel and Frank Lichtenberg, "The Effect of Ownership Changes on the Employment and Wages of Central-Office and Other Personnel," Journal of Law and Economics, October 1990, pp. 383-408.
${ }^{4}$ Robert McGuckin and Sang Nguyen, The impact of ownership changes: a view from labor markets (U.S. Census Bureau, Center for Economic Studies, 2001).
${ }^{5}$ Robert McGuckin, Sang Nguyen, and Arnold Reznek, "On Measuring the Impact of Ownership Change on Labor: Evidence from U.S. FoodManufacturing Plant-Level Data," in John Haltiwanger, Marilyn Manser, and Robert Topel (eds.), Labor Statistics Measurement Issues, NBER Studies in Income and Wealth, vol. 60 (Chicago, University of Chicago Press, 1998).
${ }^{6}$ Approximately 2 percent of the wage data were imputed.
${ }^{7}$ In addition, 1,233 establishments reported 3 times, and 5 firms reported 4 times; these 1,238 firms were excluded from the ownership change subsample. The exclusion of establishments that reported more than twice should not introduce significant bias into the subsample.
${ }^{8}$ See, for example, the Thomson Financial Merger and Corporate Transactions database, on the Internet at www.census.gov/compendia/statab/2006/ tables/06s0752.xls. Mergers, full- or partial-interest acquisitions, divestitures, and leveraged buyouts valued at $\$ 5$ million or more are listed in the database.
${ }^{9}$ The method for obtaining published OES estimates applies weights for each sample establishment in each panel of the survey in order to represent all establishments that were part of the in-scope frame from which the panel was selected. In the study presented in this article, employment was not adjusted by the unit sampling weights.
${ }^{10}$ According to QCEW annual private-sector employment figures, total employment was 107,577,281 in 2002 and 110,611,016 in 2005.


#### Abstract

${ }^{11}$ Occupations listed are those whose employment shares grew or declined by at least 0.01 percentage point and 30 percent from the predecessor to the successor group. ${ }^{12}$ For a discussion of the outsourcing of technical jobs, see Ashkok Bardhan and Cynthia Kroll, "The New Wave of Outsourcing," Fisher Center Research Report No. 1103 (Berkeley, CA, Fisher Center for Real Estate \& Urban Economics, November 2003), on the Internet at repositories.cdlib.org/iber/ fcreue/reports/1103 (visited Sept. 26, 2008); Alan Blinder, "How Many U.S. Jobs Might Be Offshorable?" CEPS Working Paper No. 142 (Princeton, NJ, Center for Economic Policy Studies, March 2007), on the Internet at www. princeton.edu/~ceps/workingpapers/142blinder.pdf (visited Sept. 26, 2008); and J. Bradford Jensen and Lori G. Kletzer, "Measuring Tradable Services and the Task Content of Offshorable Services Jobs," paper presented at the National Bureau of Economic Research Conference on Research in Income and Wealth, titled "Labor in the New Economy," November 16-17, 2007, Washington, DC, on the Internet at people.ucsc.edu/~1kletzer/TradableServices\&Job_task_ content_110907.pdf (visited Sept. 26, 2008).


${ }^{13}$ Because the wage range definitions were revised in November 2005, the successor data collected with November 2005 and May 2006 reference dates, as well as their corresponding predecessor records, were removed from the subsample solely for this wage analysis. The wage analysis used 14,828 unique establishments (29,656 predecessor and successor records).
${ }^{14}$ The employment share of an occupational group in, for example, the wage range headed "Under $\$ 6.75$ " is the percentage of employment in that occupational group out of total employment in the occupational group.
${ }^{15}$ A few establishments changed their industry classification when they reported the second time, but most that did so did not change industry sector. For consistency, the successors' industries were assigned to the predecessors'.
${ }^{16}$ Zachary Warren, "Occupational Shares in Growing and Shrinking Establishments," Occupational Employment and Wages (Bureau of Labor Statistics, May 2005), pp. 1-14; see especially p. 5.
${ }^{17}$ Andre Shleifer and Robert Vishny, "Value Maximization and the Acquisition Process," Journal of Economic Perspectives, winter 1988, pp. 7-20.
${ }^{18}$ Siegel and Lichtenberg, "The Effect of Ownership Changes."
${ }^{19}$ Warren, "Occupational Shares."
${ }^{20}$ Jeffrey Holt, "Recent Changes in Occupational Employment and Wages in Oil and Gas Extraction," internal bls document, 2008.
${ }^{21}$ The very small group consisted of establishments with 1-9 employees before the ownership change and either 1-9 employees or 10-49 employees after the ownership change. The small group comprised establishments whose predecessors were in the 10-49-employee size class and whose successors stayed in the same size class or changed by one size class. The medium group encompassed establishments whose predecessors were in the 50-249-employee size class and whose successors were in the same size class or one size class below
or above it. The large group consisted of establishments whose predecessors were in the 250-999-employee size class and whose successors were in the same size class or one size class below or above it. Finally, the very large group comprised establishments whose predecessors started in the employee size class of 1,000 or more and whose successors either remained in this size class or contracted to the 250-999-employee size class.
${ }^{22}$ Excluded from the study were the 246 establishments that changed by two size classes, the 25 establishments that changed by three size classes, and the 4 establishments that changed by four size classes. Small units might have been acquired by larger corporations with the intent to expand them, so their occupational employment changes are relative extremes.

# Extended mass layoffs after 2001: a comparison of New York and the Nation 

BLS data reveal that layoff activity in New York was somewhat elevated in the years that followed the 2001 recession; a rising level of job cuts due to contractual turnover among growth industries helped transform the mass layoff experience in the metropolitan area

Bruce J. Bergman

Bruce J. Bergman is an economist in the Office of Field Operations, Economic Analysis and Information Branch, Bureau of Labor Statistics, New York office.

W1th the largest metropolitan workforce in the Nation, the New York area ${ }^{1}$ is at or near the top of many lists. Separations due to layoffs, or, simply, layoff separations, are no exception: between 2001 and 2006, New York consistently ranked among the top 10 metropolitan areas in this category. Viewed over the longer period of 11 years for which comparable data are available, extended mass layoff actions ${ }^{2}$ caused hundreds of thousands of New York area employees to be involuntarily separated from their workplaces. A question that arises, then, is, Was the New York area a standout in terms of layoffs, or did it not differ qualitatively from the Nation in that regard? To answer that question, this article examines data made available for the first time from the Bureau of Labor Statistics (BLS).

## Was New York different?

BLS data reveal that the New York area mass layoff experience not only deviated from national trends, but also underwent a significant change after 2001. While the total number of layoffs in the United States declined to the lowest levels recorded since they were first tracked in 1996, New York layoff activity remained at a relatively high level after 2001. Following widespread
worker dislocation caused by the recession and the September 11 terrorist attacks that year, what differed between the New York area and the Nation that led to divergent trends in layoff activity after 2001? The analysis that follows examines both the type of layoff and the reasons for its occurrence in the context of varying employment trends among industry sectors.

First, data from the BLS Mass Layoff Statistics program that summarize extended mass layoff activity are used to measure both the primary reasons for layoff events and the magnitude of layoffs resulting from permanent closures of the worksites. ${ }^{3}$ Then the distribution of layoff separations by sector is examined, with the New York experience evaluated within the framework of employment growth and the local industry mix.

## New York and national layoff events

Eleven-year layoff totals. From 1996 through 2006, the New York area had 2,629 extended mass layoff events, roughly 4.5 percent of the national total. Although that figure amounted to a relatively high total for New York compared with other metropolitan areas, slightly more than 6 percent of all business establishments with at least 50 employees (the scope of the study ${ }^{4}$ ) were located in the New York area.

Layoff events in the New York area resulted in separations of 439,198 employees, with approximately 1 out of every 5 events (about the same as the national proportion) resulting from a permanent worksite closure.

With respect to the leading causes of layoffs, a similar pattern existed between the New York area and the Nation, but with notable differences in magnitude. ${ }^{5}$ (See chart 1.) Seasonal layoffs accounted for 39 percent of the extended layoff actions in the New York metropolitan area during the 11-year period. Twenty-five percent of the layoff events had to do with internal company restructuring, a category that includes all events involving financial difficulty, bankruptcy, ownership change, and reorganization. Nationally, seasonal factors and internal company restructuring accounted for a respective 30 percent and 20 percent of all layoff actions.

The other two leading justifications for job cutbacks involved slack work, indicating nonseasonal insufficient demand for the company's products or services, and the completion of a contract. In the New York area, about 12 percent of layoff events resulted from each of these factors, while nationally, slack work accounted for a greater share (16 percent) of major cutbacks.

Annual levels and the convergence of rates. On an annual basis, major layoff events in the New York area ranged from 147 in 1996 to 305 in 2005. (See table 1.) Although these layoffs more than doubled in 10 years, when they are compared with the number of establishments the change is seen to be less dramatic. Approximating a rate of such events per 100 establishments reveals relatively little change over the period examined: ${ }^{6}$ the New York area layoff event rate remained close to 1.0 , below the comparable national rate. Nationally, a spike in the layoff event rate from 1.2 to 1.9 occurred in 2001. Within 3 years, the national rate returned to its prerecession range, whereupon it continued to decline further. Less pronounced, but more protracted, was the impact in New York: the rate of layoff events rose from 0.8 to 1.2 , but it stayed close to that level for the next 3 years. These differing trends eventually led to the rate in the New York area (1.3) slightly exceeding that of the Nation (1.2) in 2005. (See chart 2.)

Much has been written about the "jobless" recovery from the recession, and BLS data indicate that, in the wake of job destruction during the last recession, job creation slowed. Nevertheless, during the years after the 2001 recession, in both New York and the Nation, the unemployment rate


fell to relatively low levels. But in terms of the frequency of mass layoffs, the New York area remained close to (within 14 percent of) the elevated level of layoffs that occurred in 2001, while national levels declined by more than 14 percent in 2002 and continued to decline to prerecession levels after that.

Five-year comparisons: pre- and post-2001. Another way to view the 2001 turning point is to compare layoffs during the 5 years prior to the recession with those occurring during the 5 years after. Prior to the recession, the New York area averaged fewer than 100 nonseasonal, nonvacation mass layoff events; by contrast, the post-2001 average was 178. Nationally, a comparison of 5 -year averages also shows an increase, but much less pronounced-at 19 percent, from 3,104 to 3,701. (See table 2.)

Besides identifying the magnitude of the total increase, a comparison of the two time segments reveals another difference between New York and the Nation. Nationally, internal restructuring accounted for about 20 percent of the layoff events in both periods, while contract completion remained close to 14 percent. In the New York area, the share of layoff actions due to internal restructuring fell to 21 percent over the 2002-06 period, from 26 percent during 1996-2000. Job cutbacks due to contract completion increased dramatically between the two periods: from 2000 to 2006, this reason was associated with 18 percent
of layoff events, whereas in the earlier period, only 5 percent of layoffs in the New York area were due to contract completion. More significantly, in both 2005 and 2006, contract completion caused more layoff events than did internal restructuring.

Layoffs related to contract completion in the New York area were less common prior to 2001 not only relative to the period that followed, but also compared with the Nation: during the more recent 5 -year period, a greater percentage of layoffs was due to completed contracts in the New York area than in the United States as a whole.

With the increased importance of contract completion and the diminished frequency of major job cuts due to internal restructuring came a reduced likelihood of layoffs due to worksite closure. ${ }^{7}$ Of the layoffs involving companies that underwent internal restructuring due to financial difficulty, reorganization, bankruptcy, or a change in ownership between 1996 and 2006, permanent worksite closings factored into about 45 percent of the events in both the New York area and the Nation. In contrast, permanent worksite closures accounted for about 3 percent of layoff events related to contract completion in the Nation. A result of an increasing share of layoffs due to contract completion was that, although the New York area tended to have a higher percentage of layoffs due to permanent worksite closures, those events became less frequent in

the post-2001 period. During the 5 years prior to the recession, permanent closures accounted for 36 percent of the nonseasonal, nonvacation layoff events. In the 5 years that followed 2001, that number dropped to 25 percent. Nationally, the percentage was about 22 percent in both periods. (See tables 2 and 3.)

## What distinguished the New York area?

Historically, economic downturns were typically accompanied by an increase in the rate of layoffs. In better times, with increased production, rates tended to decrease. National data confirm this pattern, but variation may exist among areas. Locality differences in business startup activity and in labor turnover and attrition, along with resulting labor market flows, influence the extent of both unemployment and layoffs in the face of industry-level shocks. ${ }^{8}$ New York's experience testifies that even with an improving economy, layoffs might increase. An examination of both employment growth and business activity, as measured by establishment entry and exit, offers some explanation.

Business startup and migration. BLS employment data show that overall job growth during most of the 19962001 period remained close to or above that of the $\mathrm{Na}-$ tion. An analysis of major metropolitan areas prepared for the Appalachian Regional Commission shows that, during that period, the New York area had relatively high business outmigration rates: about 1 percent of new and existing firms had relocated elsewhere by the end of the period. ${ }^{9}$ Nevertheless, aggregate business startup rates in the New York area were even with national levels, indicating some level of strength, despite the relocations.

Employment growth and a slow recovery. Total nonfarm employment in the New York area grew at a rate of more than 2 percent annually between 1997 and 2000. Slowing started in early 2001, but after the terrorist attack of September 11 and through the first half of 2002, job loss in the metropolitan area acclerated to a rate of 2 percent during the first half of 2002. Job loss persisted, albeit to a lesser degree, until continuous over-the-year job growth resumed in the second quarter of 2004. In most industry sectors, employment followed a similar pattern of a de-

| Comparisons of extended mass layoff events in New York-Northern New Jersey-Long Island and the United States, 5-and 11-year averages, 1996-2006 |  |  |  |
| :---: | :---: | :---: | :---: |
| Measure | 11-year average | $\begin{gathered} \text { 1996-2000 } \\ \text { average } \end{gathered}$ | $\begin{gathered} 2002-2006 \\ \text { average } \end{gathered}$ |
| New York-Northern New Jersey-Long Island |  |  |  |
| All events, number ........................... 239 188 |  |  |  |
| restructuring.............................. 25.4 25.7 20.6 |  |  |  |
|  |  |  |  |
| Percentage with recall expected.. <br> 49.3 |  |  |  |
| Nonseasonal, nonvacation events, | 144 | 98 | 178 |
| Percentage involving permanent worksite closure $\qquad$ | 28.8 | 36.1 | 24.9 |
| United States ${ }^{1}$ |  |  |  |
| All events, number .......................... | 5,282 | 4,687 | 5,459 |
|  |  |  |  |
| Percentage involving contract |  |  |  |
| Percentage with recall |  |  |  |
| Nonseasonal, nonvacation events, |  |  |  |
| Percentage involving permanent |  |  |  |
| ${ }^{1}$ Data on layoffs were reported by employers in all States and the District of Columbia. |  |  |  |
| SOURCE: Bureau of Labor Statistics, Mass Layoff Statistics program. |  |  |  |

layed return to prerecession (1996-2000) growth levels. (See table 4.)

BLS Business Employment Dynamics data provide additional information about the nature of the slow recovery. In New York State, a sustained period of expansion occurred from the first quarter of 1996 through the fourth quarter of 2000 . During that time span, job creation outpaced job destruction. ${ }^{10}$ The situation changed in 2001, and not until the fourth quarter of 2003 would the pace of job creation again be greater than that of job destruction. At the national level, data also show both an increase in job losses and a decline in job gains that characterize the 2001 recession. Employment in created jobs amounted to 8 percent of the total workforce in the mid-1990s; 10 years later, the job creation rate was below 7 percent. Despite a slow rate of job creation, total nonfarm employment returned to its prerecession peak sooner in the United States as a whole than it did in the New York area.

A slow local recovery is echoed in the layoff separa-
tion data. Nonseasonal, nonvacation layoffs reached their peak in 2001. (See table 5.) That year, almost 38,000 such separations were reported. Prior to 2001, the New York area had had fewer than 16,000 in 4 out of 5 years, but not until 2006 did the area total again fall below 25,000 . Although the U.S. layoff peak also was in 2001, the number of separations nationally in both 2005 and 2006 was the lowest recorded between 1996 and 2006.

Initial claims for unemployment insurance related to extended mass layoffs largely followed the pattern of separations: ${ }^{11}$ elevated levels during the years following 2001, not returning to prerecession levels. But between 2003 and 2005, when claims related to extended layoffs were declining throughout the Nation, claims in the New York area increased. (See table 6.)

How much impact did these factors have on regional layoffs? A graph of initial claims indexed to 1996 levels shows clearly that initial claims in the New York area seemed to ratchet up, even following the 2001 slowdown. (See chart 3.) At the national level, both the initial claims total and the number of initial claims due to major layoffs returned to earlier levels. So, too, did a similar return occur in 2 of the 3 States in which the New York area is located: New Jersey and Pennsylvania. These two States, as well as the Mid-Atlantic Census Division as a whole, did not experience as sharp a spike in claims due to the recession as did the Nation, and the number of claims returned closer to pre-2001 levels.

That the relative growth in initial claims from the MidAtlantic Census Division was more similar to U.S. growth, as opposed to that of the New York area, is somewhat surprising, given that about 45 percent of the division's unemployed resided in the New York area, and about the same percentage of the division's employed worked there. In terms of layoff separations, however, New York contributed only between one-quarter and one-third of the division's total.

In light of these numbers, some might interpret the indexes of initial claims to imply that New York area layoffs did not have a significant impact on the regional economy. BLS data on displaced workers, however, suggest that the impact of the layoffs might go beyond the number of initial claims. ${ }^{12}$ Between 2003 and 2005, 431,000 New York, New Jersey, and Pennsylvania workers permanently lost jobs they had held for 3 or more years due to closures, termination of their positions or shifts, or insufficient work. Nineteen percent of all displaced workers in the Mid-Atlantic division were collecting unemployment benefits in 2006, compared with 13 percent throughout the Nation.

${ }^{1}$ Data on layoffs were reported by employers in all States and the Source: Bureau of Labor Statistics, Mass Layoff Statistics program. District of Columbia.

More research is needed to determine whether metropoli$\tan$ area mass layoffs were responsible for the higher economic cost of job displacement in the Mid-Atlantic region.

Key patterns in reasons for layoff separations. Up to now, this article has focused on the overall levels and types of extended mass layoff events and the related initial claims for unemployment insurance. Data show a clear difference between the 5 -year periods before and after 2001 in the New York metropolitan area. An examination of local employment growth rates yields a similar dichotomy between the two periods. Data on separations by reason for layoff and by industry help validate these findings and also may help answer the question, "Was a slow local recovery solely to blame for increased job cuts?"

Separations data confirm that two significant factors contributed to the shift in layoff activity in the New York area: (1) increased slack work, reflecting a period of reduced demand after 2001; and (2) an increase in completed contracts, suggesting an increased number of shorter term employment contracts. Layoffs resulting from slack work peaked in New York in 2002-03, contrasting with the national total, which peaked in 2001. Beyond this factor, New York layoffs related to contract completion reached their highest levels in 11 years during 2004-05. Nationally, separations due to completed contracts were at relatively average levels during those years. Chart 4 illustrates these differences between the New York area and the Nation in the distribution of layoff separations by reason. Slack work and contract completion piggybacked
on the primary reason for major cutbacks-internal re-structuring-resulting in a sustained elevated level of separations. The number of separations due to internal company restructuring peaked both nationally and in New York in 2001.

Layoffs separations by industry. To complete the evaluation of what distinguished the New York area, a closer look at layoff data by industry is necessary. Although data that quantify reasons associated with layoffs are not available for local industries, comparisons with national figures reveal some interesting findings.

Between 1996 and 2006, manufacturing accounted for 97,256 (or 22 percent of all) extended mass layoff separations in the New York area, followed by transportation and warehousing with 62,449 (or 14 percent) of the separations. More than 40,000 separations occurred in both the construction and the arts, entertainment, and recreation sectors. Finance and insurance, as well as accommodation and food services, recorded over 30,000 mass layoff separations, and both the information and administrative and waste services sectors experienced more than 20,000 layoffs.

Economic circumstances of sectors differ, especially with regard to competition, the use of contingent workers, and business demand. Accordingly, the 2001 slowdown did not affect all sectors in the same way. In fact, the recession was not responsible for the largest number of layoffs in every sector either. For example, manufacturing had almost 34,000 separations due to major layoffs between 1996 and 1998, the worst 3-year period the industry had

| Industry | Share of total employment | Over-the-year employment change as a percentage of base-year employment |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| New York-Northern New Jersey-Long Island |  |  |  |  |  |  |  |  |  |  |  |  |
| Total private nonfarm ............ | 100.0 | 1.6 | 2.4 | 2.7 | 2.7 | 2.5 | 0.0 | -2.0 | -0.5 | 0.5 | 0.7 | 1.3 |
| Construction and mining............. | 4.5 | 2.5 | 4.6 | 7.1 | 9.3 | 5.9 | 3.1 | . 1 | -1.1 | 1.4 | . 8 | 3.9 |
| Manufacturing | 8.4 | -2.0 | . 1 | -. 9 | -2.3 | -2.3 | -6.8 | -8.3 | -5.5 | -3.5 | -3.8 | -2.7 |
| Trade, transportation, and utilities $\qquad$ | 22.7 | . 5 | 1.4 | 1.5 | 2.4 | 2.2 | -. 8 | -2.2 | -. 2 | . 3 | . 1 | . 6 |
| Wholesale trade......................... | 6.3 | . 0 | 1.2 | 1.3 | 1.0 | . 5 | . 7 | -3.5 | -. 2 | -. 4 | -. 3 | . 2 |
| Retail trade ................................. | 11.8 | 1.2 | 1.7 | 2.0 | 3.2 | 3.2 | -1.4 | -. 5 | . 3 | . 9 | . 7 | . 4 |
| Transportation and warehousing $\qquad$ | 4.2 | -. 1 | 2.3 | 1.7 | 2.8 | 2.2 | -1.9 | -5.2 | -2.2 | -. 2 | -1.0 | 1.6 |
| Information .................................. | 4.4 | 2.8 | 3.3 | 2.5 | 3.4 | 6.5 | 4.8 | -9.0 | -6.3 | -2.6 | . 0 | 1.3 |
| Financial activities....................... | 11.3 | -. 1 | 1.0 | 2.3 | 1.3 | 1.3 | -2.3 | -3.5 | -. 7 | . 6 | 1.2 | 1.5 |
| Finance and insurance ............... | 8.6 | -. 6 | . 7 | 2.2 | 1.0 | 1.3 | -2.6 | -4.2 | -1.4 | . 2 | 1.3 | 1.7 |
| Professional and business services $\qquad$ | 17.4 | 4.7 | 5.2 | 5.5 | 4.8 | 4.4 | . 6 | -4.0 | -1.3 | . 6 | 1.2 | 2.1 |
| Professional and technical services. $\qquad$ <br> Administrative and waste | 8.6 | 3.6 | 5.6 | 7.0 | 5.7 | 5.6 | -. 1 | -4.9 | -2.2 | . 9 | 2.4 | 4.4 |
| Administrative and waste services. $\qquad$ | 6.8 | 7.3 | 5.6 | 5.2 | 4.9 | 4.8 | 1.4 | -4.1 | -1.1 | . 4 | -. 5 | -. 1 |
| Education and health services .... Health care and social | 18.3 | 2.7 | 2.1 | 2.9 | 2.7 | 1.8 | 2.2 | 3.1 | 2.1 | 1.4 | 1.6 | 2.1 |
| assistance | 14.9 | 1.8 | 2.1 | 2.6 | 2.8 | 1.9 | 1.7 | 3.1 | 2.9 | 1.2 | 1.7 | 2.0 |
| Leisure and hospitality. $\qquad$ Accommodation and food | 8.2 | 2.0 | 3.2 | 2.9 | 2.8 | 3.4 | 1.9 | . 7 | 2.3 | 2.8 | 1.4 | 2.0 |
| services. | 6.5 | 1.6 | 2.8 | 2.7 | 2.3 | 2.9 | 1.5 | -. 1 | 3.3 | 2.5 | 1.9 | 2.0 |
| Other services, except public administration $\qquad$ | 4.8 | 2.7 | 2.6 | 3.0 | 4.7 | 2.8 | 1.4 | 1.4 | 1.1 | 2.1 | 2.9 | . 3 |
| United States ${ }^{1}$ <br> Total private nonfarm | 100.0 | 2.4 | . 3 | 2.8 | 2.5 | 2.1 | -. 3 | -1.7 | -. 4 | 1.3 | 1.9 | 2.0 |
| Construction and mining............. | 6.7 | 4.4 | 4.8 | 5.1 | 5.1 | 3.4 | . 6 | -1.8 | . 1 | 3.6 | 5.2 | 5.1 |
| Manufacturing ............................. | 14.7 | . 0 | 1.1 | . 8 | -1.4 | -. 3 | -4.8 | -7.2 | -4.9 | -1.3 | -. 6 | -. 2 |
| Trade, transportation, and utilities $\qquad$ | 23.5 | 1.7 | 1.9 | 2.0 | 2.3 | 1.8 | -. 9 | -1.9 | -. 8 | 1.0 | 1.7 | 1.0 |
| Wholesale trade......................... | 5.3 | 1.6 | 2.6 | 2.3 | 1.7 | . 7 | -2.7 | -2.1 | -. 8 | 1.0 | 1.8 | 2.3 |
| Retail trade ................................. | 13.8 | 1.8 | 1.7 | 1.5 | 2.5 | 2.1 | -. 3 | -1.4 | -. 7 | . 9 | 1.5 | . 3 |
| Transportation and warehousing $\qquad$ | 3.9 | 2.5 | 2.3 | 3.5 | 3.2 | 2.6 | -. 9 | -3.4 | -. 9 | 1.5 | 2.6 | 2.4 |
| Information ................................. | 3.0 | 3.4 | 4.9 | . 4 | 6.2 | 6.2 | -. 1 | -6.4 | -6.1 | -2.2 | -2.8 | -. 2 |
| Financial activities........................ | 7.1 | 2.1 | 3.0 | 4.0 | 2.5 | . 5 | 1.6 | . 5 | 1.7 | . 7 | 1.5 | 2.6 |
| Finance and insurance .............. | 5.3 | 1.6 | 2.9 | 4.3 | 2.5 | . 2 | 1.6 | . 8 | 1.8 | . 4 | 1.2 | 2.7 |
| Professional and business services $\qquad$ | 14.7 | 4.8 | 6.5 | 5.7 | 5.3 | 4.4 | -1.1 | -3.0 | . 1 | 2.6 | 3.4 | 3.5 |
| Professional and technical services $\qquad$ | 8.6 | 4.6 | 6.0 | 6.5 | 5.9 | 5.6 | 2.5 | -3.3 | -. 7 | 2.2 | 4.1 | 4.5 |
| Administrative and waste services. $\qquad$ | 7.1 | 6.0 | 8.2 | 6.0 | 5.9 | 4.2 | -4.2 | -2.6 | 1.0 | 2.9 | 3.1 | 2.8 |
| Education and health services .... <br> Health care and social | 14.5 | 3.0 | 3.0 | 2.5 | 2.4 | 2.1 | 3.5 | 3.5 | 2.4 | 2.2 | 2.5 | 2.7 |
| assistance | 12.2 | 2.9 | 2.8 | 2.4 | 2.2 | 1.9 | 3.3 | 3.2 | 2.5 | 2.1 | 2.4 | 2.6 |
| Leisure and hospitality................. | 11.0 | 2.6 | 2.2 | 1.9 | 2.8 | 2.8 | 1.5 | -. 4 | 1.6 | 2.6 | 2.6 | 2.6 |
| Accommodation and food services. $\qquad$ | 9.4 | 2.4 | 1.8 | 1.8 | 2.6 | 2.4 | 1.4 | -. 1 | 1.5 | 2.7 | 2.6 | 2.7 |
| administration | 4.8 | 2.6 | 2.9 | 3.1 | 2.2 | 1.6 | 1.7 | 2.2 | . 5 | . 1 | -. 3 | . 7 |
| ${ }^{1}$ Data on layoffs were reported by employers in all States and the District of Columbia. |  |  |  |  | Source: Bureau of Labor Statistics, Current Employment Statistics program. |  |  |  |  |  |  |  |


| Extended mass layoff separations by industry and reason for layoff, private nonfarm sector, New York-Northern New Jersey-Long Island, 1996-2006 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Measure | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| Total, private nonfarm ... | 34,828 | 36,942 | 37,823 | 22,153 | 27,430 | 54,928 | 52,335 | 39,527 | 51,118 | 47,597 | 33,517 |
| Construction. | 4,006 | 5,599 | 1,305 | (1) | 1,009 | 1,159 | 5,007 | 5,468 | 6,041 | 7,982 | 4,353 |
| Manufacturing ... | 7,594 | 10,754 | 15,643 | 6,628 | 8,689 | 9,948 | 10,236 | 8,960 | 6,578 | 7,220 | 5,006 |
| Wholesale trade. | 430 | 1,296 | 758 | 1,160 | 727 | 1,003 | 510 | 2,129 | 1,053 | 945 | 715 |
| Retail trade... | 1,387 | 1,693 | 1,124 | 1,087 | 609 | 1,967 | 1,204 | 635 | 2,022 | 1,372 | 1,113 |
| Transportation and warehousing ... | 5,296 | 4,801 | 6,867 | 5,812 | 7,062 | 11,193 | 4,595 | 3,806 | 5,581 | 2,622 | 4,814 |
| Information... |  | (1) | 1,886 | 246 | 718 | 2,211 | 4,925 | 3,386 | 6,394 | 3,090 | 2,040 |
| Finance and insurance ... | 2,554 | 771 | 2,881 | 1,283 | 1,095 | 6,424 | 7,382 | 1,724 | 4,596 | 2,045 | 570 |
| Real estate and rental and leasing....... | (1) | (1) | (1) | ( ${ }^{1}$ | 554 | 1,775 | 1,350 | ( ${ }^{1}$ | 1,784 | 310 | - |
| Professional and technical services .... | ( ${ }^{1}$ ) | ( ${ }^{1}$ | ( ${ }^{1}$ | 475 | 446 | 3,096 | 1,810 | 1,712 | 2,466 | 4,109 | 1,721 |
| Administrative and waste services ...... | 2,019 | 1,044 | 1,512 | 944 | 512 | 2,646 | 3,911 | 2,075 | 2,248 | 2,204 | 3,497 |
| Health care and social assistance......... | 1,774 | 2,196 | 1,033 | 1,015 | 1,594 | 948 | 704 | 1,607 | 3,095 | 2,603 | 1,503 |
| Arts, entertainment, and recreation.......... | 5,267 | 4,260 | 1,561 | 1,209 | 2,381 | 4,147 | 5,117 | 4,925 | 4,048 | 4,307 | 3,810 |
| Accommodation and food services .......... | 2,012 | 747 | 1,486 | 1,445 | 515 | 6,681 | 3,443 | 893 | 4,249 | 7,469 | 3,708 |
| Other services, except public administration. $\qquad$ | 330 | 946 | 915 | 459 | 996 | 926 | 695 | 628 | 465 | 376 | (1) |
| Reason |  |  |  |  |  |  |  |  |  |  |  |
| Seasonal .......... | 19,123 | 21,473 | 17,106 | 10,245 | 13,511 | 17,094 | 17,307 | 11,581 | 14,200 | 16,145 | 13,756 |
| Total, nonseasonal, nonvacation................ | 15,705 | 15,469 | 20,717 | 11,908 | 13,919 | 37,834 | 35,028 | 27,946 | 36,918 | 31,452 | 19,761 |
| Contract completion............................. | 1,801 | 2,757 | 885 | 604 | 1,339 | 3,014 | 7,704 | 8,104 | 10,522 | 8,935 | 6,235 |
| Internal company restructuring ............... | 9,571 | 8,309 | 8,152 | 7,578 | 6,038 | 25,013 | 13,920 | 7,979 | 12,187 | 10,453 | 7,934 |
| Slack work.............................................. | 2,304 | 2,080 | 2,773 | 858 | 3,177 | 5,296 | 6,421 | 5,989 | 5,947 | 3,627 | 3,247 |

${ }^{1}$ Data do not meet bls or State agency disclosure standards.
Source: Bureau of Labor Statistics, Mass Layoff Statistics program. Note: Dash represents zero.
during the 11 years studied. By contrast, the worst 3-year period for construction was from 2003 through 2005, when the industry recorded 19,000 separations.

The extent of layoffs related to permanent worksite closure, accounting for about 20 percent of New York area layoff separations, also is instructive regarding the variation among industries that exists with business turnover. About one-third of the annual average of 2,866 manufacturing separations per year involved closures. Of all industries, manufacturing had the highest number of separations due to workplace closings every year, with the exception of 1996 and 2001. (See table 7.) Nevertheless, in 6 of the 11 years studied, another industry in decline-wholesale trade-had a higher percentage of layoffs due to permanent closures. In retail trade, a large industry characterized by high turnover, closures caused about half of the layoff separations, on average, and this percentage also exceeded that of manufacturing in 6 of the 11 years examined.

## Construction separations

Looking at extended mass layoff activity in relatively high layoff sectors in the context of overall employment growth highlights additional differences between New York and the Nation. A healthy real estate market, along with in-
tensive efforts to rebuild lower Manhattan, fueled growth among the building trades. Between 1999 and 2004, New York area construction employment grew by about 13 percent, while the number of establishments grew by 14 percent. Nationally, the employee and establishment counts both grew by less than 10 percent. (See table 8.)

As regards layoffs, construction accounted for at least 10 percent of the separations in the United States every year except 2001 and 2002. In New York, a similar situation existed: during the 5 years after 2001, the construction sector averaged more than 5,500 separations per year due to extended mass layoffs, amounting to 12 percent of the total separations in the New York area. (See table 9.)

In both the New York area and the United States, the quantity of construction layoffs was disproportionate to the sector's employment. Nationally, construction accounted for about 6 percent of total private nonfarm employment. Among establishments with at least 50 employees, from which the layoff statistics were derived, construction employees amounted to yet a smaller percentage of all employees. The disparity between relative shares of total layoffs and total employment was even more evident in the New York area, where construction had a location quotient of 0.72 , indicating less industry concentration compared with that of the Nation. ${ }^{13}$

Table 6. Initial claimants for unemployment insurance resulting from extended mass layoffs, private nonfarm sector, selected areas in the Mid-Atlantic Census Division and the United States, 1996-2006

| Area | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| United States. | 805,810 | 879,831 | 1,056,462 | 796,917 | 846,267 | 1,457,512 | 1,218,143 | 1,200,811 | 903,079 | 834,533 | 950,157 |
| Mid-Atlantic Division. | 156,959 | 134,635 | 152,283 | 122,073 | 116,224 | 201,435 | 210,161 | 189,699 | 181,403 | 158,413 | 178,957 |
| New Jersey. | 30,489 | 35,347 | 31,910 | 22,353 | 25,945 | 39,114 | 41,868 | 38,747 | 33,841 | 28,075 | 30,517 |
| New York.... | 38,416 | 26,113 | 37,478 | 27,260 | 28,481 | 54,877 | 79,493 | 73,111 | 75,146 | 75,311 | 79,472 |
| Pennsylvania ........................................ | 88,054 | 73,175 | 82,895 | 72,460 | 61,798 | 107,444 | 88,800 | 77,841 | 72,416 | 55,027 | 68,968 |
| New York-Northern New JerseyLong Island $\qquad$ | 21,302 | 27,262 | 32,346 | 21,242 | 27,368 | 46,964 | 47,988 | 36,467 | 51,846 | 50,222 | 40,867 |

SOURCE: Bureau of Labor Statistics, Mass Layoff Statistics program.

This pattern of relatively high layoff activity also was reflected in national layoff and discharge rates, as captured by the BLS Job Openings and Labor Turnover Survey (JOLTS): ${ }^{14}$ between 2001 and 2006, construction recorded the highest layoff and discharge rates among all sectors.

With the use of extended mass layoff separations data, a rate similar to the turnover rate can be computed in the context of relative employment levels to help gauge extended mass layoff activity over time among establishments with at least 50 employees. This measure, too, confirms that construction tended to have the highest rate of separations among national sectors. With the exception of 2001, construction led the other sectors, with a separation rate that ranged from 4.5 percent to 7.8 percent. From 2003 through 2006, the national rate declined each year, from 5.8 percent to 4.5 percent. (See table 10.)

Rather than reflecting an industry in decline, construction layoff activity was more indicative of the short-term employment relationship that has become more characteristic of the industry. National data indicate that more than 85 percent of all construction layoffs were due to the ending of seasonal work and the completion of contracts, with specialty trade contractors having a high percentage of separations due to contract completion. Furthermore, construction employers expected a recall in 59 percent of the layoff events in the United States, above the 52percent average for private industry as a whole. Laid-off construction workers were reemployed relatively quickly: construction had one of the shortest average jobless durations among all sectors.

## Manufacturing layoffs

In the late 1990s, manufacturing employment declined in New York, as it did throughout the Nation, but the rate of job loss worsened with the 2001 recession. Over-the-
year job loss accelerated in the New York area, while it moderated nationally. The deterioration in manufacturing was particularly pronounced in the New York area, as a comparison of 2004 with 1999 figures indicates. Seventeen percent fewer manufacturing establishments were in New York, while the decline in the Nation was 6 percent. Among establishments employing at least 50 employees, the decline was more significant: by 2004, the number of manufacturers of that size contracted by 23 percent in the New York area, while the number of like-sized manufacturing establishments in the United States dropped by 14 percent.

Manufacturing accounted for a dwindling, but significant, share of national employment, declining steadily from about 25 percent in 1996 to about 18 percent in 2006. Meanwhile, at least 25 percent (ranging up to 47 percent in 1998) of all extended mass layoff separations occurred in the sector each year. In New York, the story was different: the only years that manufacturing accounted for at least one-quarter of the separations were between 1997 and 2000, when the area economy was adding jobs at its fastest pace during the 11 years studied. Since 2004, when manufacturing amounted to 7 percent of total New York area employment, the sector has accounted for 15 percent or less of the layoff separations in New York.

Nationwide, manufacturing separations due to extended mass layoffs reached their height in 2001, with 627,930, a rate of 4.7 percent. Since then, both levels and rates have declined, and between 2004 and 2006, the rate of manufacturing separations in the United States was not more than 2.5 percent. Above the private-industry average, the manufacturing separations rate was still well behind that of construction.

In the New York area, however, a relatively high number of major manufacturing job cuts failed to color the total extended mass layoff picture as it did nationally. The primary reason was that manufacturing was less

concentrated in New York than throughout the Nation: a location quotient of 0.54 indicates less of a presence for the sector in the New York area than throughout the Nation.

What accounted for the sharper decline in New York area manufacturing employment if not mass layoffs? Production jobs may have moved out of high-priced Manhattan to lower cost areas either within New York City or beyond the metropolitan area. If such moves were partial and gradual, and did not result in at least 50 people being laid off over a 5 -week period, the job cuts would not be captured in the mass layoff numbers, but the net result would be reflected in the BLS employment data. ${ }^{15}$

Beyond less industry concentration, a different factor tempered the impact of mass layoffs in manufacturing in the New York area. Four industries accounted for half of the 97,256 extended mass layoff separations in manufacturing: apparel recorded 14,906 (15.3 percent) of the separations, followed by chemical products with 12,226 (12.6 percent), food products with 11,202 (11.5 percent), and machinery with 10,795 (11.1 percent). (See table 11.)

Although the apparel industry had the highest number of extended mass layoff separations, only 15 percent of those separations in the New York area involved permanent worksite closures. (See chart 5.) The low number of separations due to the permanent closure of New York apparel manufacturers stood in stark contrast to the situation in the Nation as a whole, where 56 percent of this industry's separations involved shutdowns.

Apparel manufacturing continued to be one of the metropolitan area's primary industries, while maintaining international prominence, even with declining employment. Between 1996 and 2001, despite low business startup activity in almost every manufacturing industry, apparel startups were high. Many of the large apparel manufacturers that had remained in the New York area adapted to changing business conditions by trimming staff, as opposed to closing down permanently. ${ }^{16}$ In 1996, 23 percent of all apparel establishments in the United States were located in metropolitan New York. The percentage decreased to 19 percent in 2006, while the area's employment share for the industry grew from 12 percent to 14 percent of the U.S. total during the same period. Meanwhile, the average


| Industry | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Construction.. | - | (1) | - | - | - | (1) | - | - | - | 603 | 624 |
| Manufacturing ............................................... | 2,157 | 2,311 | 3,889 | 3,611 | 1,531 | 2,380 | 3,215 | 4,852 | 2,775 | 2,228 | 2,819 |
| Wholesale trade .......................................... | - | 636 | 494 | 930 | (1) | 608 | ( ${ }^{\text {) }}$ | (1) | ( ${ }^{\text {) }}$ | 495 | 410 |
| Retail trade ........................................................ | 871 | - | 357 | 927 | 289 | 1,506 | 644 | 295 | 835 | 923 | 436 |
| Transportation and warehousing .............. | (1) | (1) | 494 | (1) | - | 2,423 | 1,500 | (1) | 951 | 423 | - |
|  | (1) | (1) | 975 | - | (1) | 442 | 1,400 | (1) | (1) | ( ${ }^{\text {) }}$ | 495 |
| Finance and insurance ................................... | 2,256 | (1) | 1,882 | 355 | (1) | (1) | 931 | (1) | 737 | 655 | (1) |
| Administrative and waste services ............ | 850 | (1) | ( ${ }^{\text {) }}$ | - | (1) | 355 | 999 | 267 | - | (1) | 1,399 |

${ }^{1}$ Data do not meet BLS or State agency disclosure standards.
Note: Dash represents zero.

Source: Bureau of Labor Statistics, Mass Layoff Statistics program.
establishment size in apparel declined in both New York and the Nation. ${ }^{17}$

The New York experience contrasted with that of the United States, in which manufacturing weighed heavily on the layoff picture. In the Nation, the sector accounted for close to 30 percent of all extended separations from 2002 to 2006. In New York, manufacturing accounted for 17 percent of the layoff separations, and between 2004 and 2006 the share fell to 14 percent.

## Transportation and warehousing layoffs

Compared with its share of national employment among establishments with at least 50 employees, transportation and warehousing consistently had a higher percentage of total separations. Since 2002, the national rate of extended mass layoffs in transportation and warehousing has been relatively close to manufacturing's national rate. Separations in this sector usually have amounted to between 5 percent and 8 percent of the U.S. total since 1996.

In the New York area, however, extended mass layoff separations in the transportation and warehousing sector accounted for 10 percent of total extended mass layoff separations, or about 4,300 separations per year, on average, between 2002 and 2006. As with manufacturing, the layoff share during this period, though relatively high, was down from earlier years: from 1996 to 2001, transportation and warehousing accounted for between 13 percent and 26 percent of New York area layoffs, averaging about 6,000 separations annually. This reduced level of layoff activity contrasts with the national experience: during the 5 years before 2001, between 49,000 and 58,000 separations occurred in the sector, while the average for the 5 years ending in 2006 was $73,000$.

## Leisure and hospitality turnover

In the years that followed 2001, New York area separations due to layoffs in the arts, entertainment, and recreation sector ranged from 3,810 to 5,117 , averaging 8 percent of the private-industry total, compared with 3.5 percent nationally. In New York, as well as in the United States, the sector accounted for about 2 percent of total employment.

A higher incidence of layoffs also was evident in accommodation and food services. Employment in this sector in the New York area was characterized by growth over most of the 11 -year period studied, similar to the rest of the United States. After 2001, the sector accounted for about 7.5 percent of New York area layoff separations, compared with 6 percent nationally.

The difference in layoff proportions between the New York accommodation and food services sector and its national counterpart may have been influenced by higher establishment growth in the metropolitan area. Employment data show that establishment growth in New York became more concentrated among smaller sizes (outside the scope of the BLS Mass Layoff Statistics program), while nationally, the sector became increasingly more consolidated among larger establishments. Between 1999 and 2004, employment growth in the sector in New York outpaced growth in both construction and retail trade. The number of establishments grew by 16 percent, but among establishments with 50 or more employees, the increase measured just 10 percent. On a national basis, the number of accommodation and food service establishments increased by 10 percent, but those with more than 49 employees increased by 17 percent.

Accommodation and food services had a relatively high

## Table 8. Change in the number of establishments, and employment by industry and establishment size, New YorkNorthern NewJersey-Long Island and United States, 1999-2004

| Industry | All establishments |  | Establishments employing at least $\mathbf{5 0}$ workers |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Employment change, 1999-2004 | Establishment change, 1999-2004 | $\begin{aligned} & \text { Employment change, } \\ & 1999-2004 \end{aligned}$ | Establishment change as a percentage of all establishments, 2004 |
| New York -Northern New Jersey-Long Island |  |  |  |  |
| Total private............................................ | 3.7 | 5.0 | 3.2 | 4.5 |
| Construction.......................................................... | 12.7 | 13.7 | 11.1 | 2.2 |
| Manufacturing ........................................................ | -19.4 | -16.6 | -22.7 | 10.3 |
| Wholesale trade...................................................... | -4.2 | -3.1 | -5.6 | 4.2 |
| Retail trade ......................................................... | 12.7 | 5.0 | 24.0 | 4.3 |
| Transportation and warehousing ...................... | . 3 | 8.5 | 13.3 | 7.9 |
|  | 10.4 | 6.7 | 4.8 | 10.6 |
| Finance and insurance ........................................... | -. 6 | 2.0 | -3.1 | 5.7 |
| Real estate and rental and leasing..................... | 12.1 | 11.2 | 8.7 | 1.3 |
| Professional and technical services .................... | 6.9 | 9.0 | 3.3 | 2.8 |
| Administrative and waste services.................... | -1.5 | -. 3 | -1.1 | 7.2 |
| Health care and social assistance ....................... | 11.4 | 12.3 | 14.2 | 5.1 |
| Accommodation and food services ................... | 13.6 | 15.7 | 9.6 | 4.8 |
| Other services, except public administration ..... | 8.8 | 6.5 | 4.2 | 1.7 |
| United States |  |  |  |  |
| Total private ........................................... | 3.9 | 5.4 | 4.0 | 5.3 |
| Construction............................................................... | 7.2 | 8.9 | 9.4 | 2.8 |
|  | 17.0 | -5.9 | -14.0 | 16.0 |
| Wholesale trade............................................. | -1.1 | -4.6 | -3.1 | 4.8 |
| Retail trade ....................................................... | 6.0 | . 8 | 7.9 | 5.4 |
| Transportation and warehousing ......................... | 13.0 | 10.4 | 21.0 | 7.1 |
| Information ....................................................... | 7.4 | 10.4 | 2.1 | 9.1 |
| Finance and insurance ....................................... | 8.7 | 12.5 | 3.8 | 3.7 |
| Real estate and rental and leasing...................... | 11.3 | 17.0 | 7.5 | 1.4 |
| Professional and technical services ..................... | 17.7 | 14.2 | 11.6 | 2.6 |
| Administrative and waste services ....................... | 4.1 | 2.4 | -. 9 | 8.5 |
| Health care and social assistance ......................... | 14.1 | 12.6 | 14.3 | 6.3 |
| Accommodation and food services ................... | 11.5 | 9.5 | 17.0 | 7.7 |
| Other services, except public administration...... | 5.1 | 2.3 | 5.4 | 1.7 |

Source: U.S. Census Bureau, County Business Patterns.
number of layoffs, despite a low industry concentration. At 0.72 , the area location quotient for accommodation and food services was the same as that for construction, indicating a smaller share of local, compared with national, employment. The 2002-06 period was worse than the 5 years prior to 2001 in terms of layoff separations in the industry, and that was true at both the local and national level, despite continued growth.

## Information layoffs

Increased layoff activity despite sector growth also was evident in the information sector. Annual job gains in New York were strong between 1996 and 2001, averaging from
2.5 percent to 6.5 percent. Communications industry startup activity was 20 percent above national averages during this period. The recession, however, hit the sector particularly hard: in 2002, job losses for the year amounted to 9 percent. Although nationally the sector continued to lose jobs, in the New York metropolitan area the information industry rebounded in 2006, finally adding employment, at a rate of 1.3 percent.
JOLTS data indicate that, between 2001 and 2006, the information sector ranked among the sectors with the lowest national layoff and discharge rates. However, in terms of extended mass layoffs, the sector experienced an above-average rate exceeding 2 percent of the U.S. employed between 2002 and 2003, as it did earlier, in 1996

| Percent distribution of extended mass layoff separations by industry, New York-Northern New Jersey-Long Island and United States, 1996-2006 |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industry | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| New York-New JerseyLong Island |  |  |  |  |  |  |  |  |  |  |  |
| Total, private nonfarm ....................... | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Construction ............................................. | 11.5 | 15.2 | 3.5 | ( ${ }^{1}$ ) | 3.7 | 2.1 | 9.6 | 13.8 | 11.8 | 16.8 | 13.0 |
| Manufacturing .......................................... | 21.8 | 29.1 | 41.4 | 29.9 | 31.7 | 18.1 | 19.6 | 22.7 | 12.9 | 15.2 | 14.9 |
| Wholesale trade........................................ | 1.2 | 3.5 | 2.0 | 5.2 | 2.7 | 1.8 | 1.0 | 5.4 | 2.1 | 2.0 | 2.1 |
| Retail trade ................................................ | 4.0 | 4.6 | 3.0 | 4.9 | 2.2 | 3.6 | 2.3 | 1.6 | 4.0 | 2.9 | 3.3 |
| Transportation and warehousing ............. | 15.2 | 13.0 | 18.2 | 26.2 | 25.7 | 20.4 | 8.8 | 9.6 | 10.9 | 5.5 | 14.4 |
| Information .............................................. | - | ( ${ }^{1}$ ) | 5.0 | 1.1 | 2.6 | 4.0 | 9.4 | 8.6 | 12.5 | 6.5 | 6.1 |
| Finance and insurance ............................. | 7.3 | 2.1 | 7.6 | 5.8 | 4.0 | 11.7 | 14.1 | 4.4 | 9.0 | 4.3 | 1.7 |
| Real estate and rental and leasing............ | (1) | (1) | (1) | ( ${ }^{1}$ ) | 2.0 | 3.2 | 2.6 | (1) | 3.5 | . 7 | - |
| Professional and technical services........... | $\left({ }^{1}\right)$ | ( ${ }^{1}$ ) | ( ${ }^{1}$ ) | 2.1 | 1.6 | 5.6 | 3.5 | 4.3 | 4.8 | 8.6 | 5.1 |
| Administrative and waste services ............ | 5.8 | 2.8 | 4.0 | 4.3 | 1.9 | 4.8 | 7.5 | 5.2 | 4.4 | 4.6 | 10.4 |
| Health care and social assistance.............. | 5.1 | 5.9 | 2.7 | 4.6 | 5.8 | 1.7 | 1.3 | 4.1 | 6.1 | 5.5 | 4.5 |
| Arts, entertainment, and recreation......... | 15.1 | 11.5 | 4.1 | 5.5 | 8.7 | 7.5 | 9.8 | 12.5 | 7.9 | 9.0 | 11.4 |
| Accommodation and food services .......... | 5.8 | 2.0 | 3.9 | 6.5 | 1.9 | 12.2 | 6.6 | 2.3 | 8.3 | 15.7 | 11.1 |
| Other services, except public administration. $\qquad$ | . 9 | 2.6 | 2.4 | 2.1 | 3.6 | 1.7 | 1.3 | 1.6 | . 9 | . 8 | ( ${ }^{1}$ |
| United States ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| Total, private nonfarm ........................ | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Construction ............................................. | 11.2 | 14.0 | 10.8 | 13.0 | 12.1 | 7.3 | 9.3 | 10.9 | 12.0 | 13.8 | 13.5 |
| Manufacturing .......................................... | 37.0 | 34.1 | 47.3 | 39.5 | 40.0 | 41.2 | 35.7 | 31.6 | 25.6 | 25.2 | 29.4 |
| Wholesale trade....................................... | 2.1 | 1.6 | 1.4 | 1.9 | 1.9 | 1.9 | 1.9 | 2.5 | 1.6 | 1.5 | 1.5 |
| Retail trade ................................................ | 12.3 | 10.1 | 5.9 | 10.2 | 9.6 | 8.7 | 10.7 | 10.5 | 14.5 | 9.0 | 10.7 |
| Transportation and warehousing ............. | 4.6 | 6.1 | 5.7 | 5.5 | 5.5 | 7.7 | 6.4 | 7.2 | 5.9 | 7.6 | 7.5 |
| Information ............................................... | 5.2 | 6.1 | 4.4 | 2.6 | 1.6 | 4.0 | 4.6 | 5.4 | 3.7 | 2.6 | 2.0 |
| Finance and insurance ............................. | 3.0 | 2.2 | 2.3 | 2.4 | 3.4 | 2.2 | 3.0 | 3.3 | 3.4 | 2.1 | 3.3 |
| Real estate and rental and leasing............ | . 4 | . 4 | . 2 | . 2 | . 2 | . 5 | . 2 | . 3 | . 4 | . 3 | . 2 |
| Professional and technical services .......... | 2.7 | 3.5 | 2.2 | 2.7 | 2.4 | 3.4 | 4.6 | 3.3 | 3.3 | 4.7 | 4.7 |
| Administrative and waste services ............ | 6.4 | 5.3 | 5.4 | 6.8 | 8.5 | 11.0 | 10.6 | 12.2 | 11.4 | 10.6 | 9.8 |
| Health care and social assistance.............. | 3.8 | 3.6 | 3.1 | 3.9 | 4.2 | 1.6 | 2.4 | 2.7 | 4.4 | 4.9 | 3.2 |
| Arts, entertainment, and recreation......... | 3.3 | 5.0 | 3.1 | 2.9 | 2.8 | 2.6 | 3.6 | 3.1 | 3.8 | 5.9 | 4.6 |
| Accommodation and food services ......... | 4.8 | 5.2 | 4.8 | 4.3 | 4.5 | 5.2 | 4.0 | 4.4 | 6.9 | 8.5 | 7.2 |
| Other services, except public administration $\qquad$ | . 8 | 1.2 | 1.2 | 1.3 | 1.2 | . 7 | 1.1 | 1.0 | 1.5 | 1.5 | 1.1 |
| ${ }^{1}$ Data do not meet BLS or State age <br> ${ }^{2}$ Data on layoffs were reported by District of Columbia. | y discl employ | re stan <br> in all | ds. es and |  | $\begin{aligned} & \text { Dash } \\ & \text { E: Bur } \end{aligned}$ | resent of Lab | ro. Statistics | Mass La | Statis | progra |  |

and 1997 (while the sector was expanding).
In the New York area, extended mass layoffs in the information sector resulted in about 4,000 separations, on average, between 2002 and 2006, or 6.7 percent of all metropolitan area separations. The largest number of separations during these years occurred in 2004, when the overall employment picture was starting to improve. Nationally, this sector accounted for 3.6 percent of all private-industry layoff separations. The disparity between local and national proportions, however, was consistent with the difference in employment shares: as indicated by a 1.47 location quotient, information sector employment was more highly concentrated in the New York area.

## Finance and insurance separations

After a slow period in 1996 and 1997, finance and insurance employment grew between 1 percent and 2 percent annually in the New York area prior to the 2001 recession. Employment declined between 2001 and 2003, but by 2005 growth had returned to prerecession rates, unlike growth rates in most of the other sectors in the area.

Finance and insurance layoff separations varied quite a bit from year to year, with the peak occurring in 2002, when there were more than 7,000 extended separations. In 2006, the sector saw 570 separations, the lowest num-

Table 10. Rates of extended mass layoff separations, by industry, United States, ${ }^{1} 1996$-2006

| Industry | Average percent employment in establishments with 50 or more employees | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total, private nonfarm ..................... | 57.4 | 1.7 | 1.7 | 1.7 | 1.5 | 1.5 | 2.4 | 2.1 | 2.0 | 1.7 | 1.5 | 1.5 |
| Construction | 36.0 | 6.8 | 7.8 | 5.7 | 5.6 | 4.8 | 4.6 | 5.1 | 5.8 | 5.1 | 4.9 | 4.5 |
| Manufacturing .................................. | 79.2 | 2.6 | 2.4 | 3.3 | 2.6 | 2.6 | 4.7 | 3.8 | 3.4 | 2.3 | 2.0 | 2.5 |
| Wholesale trade.................................... | 42.0 | 1.0 | . 7 | . 6 | . 7 | . 7 | 1.2 | 1.0 | 1.3 | . 7 | . 6 | 0.6 |
| Retail trade ............................................ | 50.1 | 1.7 | 1.4 | . 8 | 1.3 | 1.2 | 1.7 | 1.8 | 1.7 | 1.9 | 1.1 | 1.3 |
| Transportation and warehousing ........ | 67.0 | 1.8 | 2.3 | 2.2 | 1.9 | 1.8 | 4.1 | 3.1 | 3.3 | 2.2 | 2.5 | 2.5 |
| Information ........................................... | 72.4 | 2.4 | 2.6 | 1.9 | 1.0 | . 6 | 2.2 | 2.3 | 2.9 | 1.6 | 1.1 | . 9 |
| Finance and insurance .......................... | 57.9 | 1.0 | . 7 | . 7 | . 7 | 1.0 | 1.0 | 1.2 | 1.2 | 1.0 | . 6 | . 9 |
| Real estate and rental and leasing........ | 29.3 | . 8 | . 7 | . 3 | . 3 | . 4 | 1.2 | . 5 | . 6 | . 7 | . 5 | . 3 |
| Professional and technical services ...... | 46.1 | 1.0 | 1.3 | . 8 | . 8 | . 7 | 1.5 | 1.9 | 1.4 | 1.1 | 1.3 | 1.3 |
| Administrative and waste services ....... | 71.2 | 1.5 | 1.1 | 1.1 | 1.2 | 1.4 | 3.1 | 2.6 | 2.9 | 2.2 | 1.7 | 1.6 |
| Health care and social assistance.......... | 66.7 | . 5 | . 4 | . 4 | . 4 | . 5 | . 3 | . 3 | . 4 | . 5 | . 5 | . 3 |
| Accommodation and food services ..... | 42.8 | 1.2 | 1.3 | 1.2 | . 9 | 1.0 | 1.8 | 1.2 | 1.3 | 1.6 | 1.7 | 1.5 |
| Other services, except public administration. $\qquad$ | 23.3 | . 9 | 1.4 | 1.3 | 1.3 | 1.2 | 1.1 | 1.5 | 1.2 | 1.5 | 1.4 | 1.1 |

[^3]Sources: Bureau of Labor Statistics, Mass Layoff Statistics program and Quarterly Census of Employment and Wages.
ber recorded for finance and insurance during the 11 years studied.

In the 5 years after 2001, this sector accounted for 6.7 percent of all separations in the New York area, compared with just 3.0 percent nationally over the same period. However, the metropolitan area's share of separations was not disproportionate to its portion of total employment: in the New York area, about 8 percent of all private-industry workers were employed in finance and insurance. Nationally, the share was between 5 percent and 6 percent. Furthermore, a slightly greater percentage of finance establishments staff at least 50 employees in the New York area compared with the Nation: about 6 percent of all finance establishments in New York employed at least 50 employees, while nationally the figure was approximately 4 percent.

Thus, even though major job cuts in finance were a significant part of the layoff activity in the New York area, they were neither extraordinary (on the basis of industry concentration and size) nor permanently damaging to the sector's local strength. Nevertheless, BLS layoff data show that finance separations were costly: in 2005 and 2006, the longest average jobless duration, based on the average number of continued claims in the United States, was experienced by claimants laid off from finance and insurance companies. Employees from that sector also exhausted their benefits at high rates.

| Table 11. Total extended ma industries, New Yor Island, 1996-2006 | layoff separa k-Northern Ne | ns, by selected ersey-Long |
| :---: | :---: | :---: |
| Industry | All layoff separations | Permanent worksite closure separations |
| Manufacturing ..... | 97,256 | 31,768 |
| Apparel . .-x | 14,906 | 2,224 |
|  | 12,226 | 4,760 |
| Food. .-.x.ax | 11,202 | 4,666 |
| Machinery . .x. | 10,795 | 3,492 |
| Miscellaneous manufacturing....... | 9,254 | 3,509 |
| Transportation equipment...... | 8,760 | 2,681 |
| Computer and electronic products. | 5,766 | 1,757 |
| Paper .-.x) | 3,744 | 1,210 |
| Printing and related support activities. | 3,520 | 909 |
| Leather and allied products......... | 3,318 | 539 |
| Fabricated metal products........... | 3,140 | 865 |
| Plastics and rubber products........ | 3,086 | 1,450 |
| Electrical equipment and appliances ......................... | 2,024 | 1,262 |
| Nonmetallic mineral products....... | 1,365 | 629 |
| Primary metals ...x | 1,261 | (1) |
| Furniture and related products...... | 1,012 | 773 |
|  | 590 | ${ }^{(1)}$ |
| Textie product mills....x> $\times$. | 387 | ${ }^{(1)}$ |
| Petroleum and coal products....... | 325 | ${ }^{(1)}$ |
| Beverage and tobacco products.... | (1) | ${ }^{(1)}$ |
|  | (1) | (1) |
| ${ }^{1}$ Data do not meet BLS or State agency disclosure standards. Source: Bureau of Labor Statistics, Mass Layoff Statistics program. |  |  |

Chart 5. Percent of separations not involving permanent worksite closure in manufacturing, New YorkNorthern New Jersey-Long Island, 1996-2006


Source: Bureau of Labor Statistics, Mass Layoff Statistics program.

## Administrative and waste services

After continued strong growth in the late 1990 s , amounting to increases of between 5 percent and 7 percent a year, employment in New York area administrative and support and waste management and remediation services (or, simply, administrative and waste services) slowed with the recession and then remained relatively unchanged. Layoffs in New York in this sector reached their peak of 3,911 in 2002. In the years that followed, administrative and waste services had at least 2,000 layoffs annually, compared with an average of 1,206 during the 5 years prior to 2001.
From 2002 through 2006, separations in administrative and waste services amounted to 4.9 percent of the total in New York, while nationally, the sector accounted for almost 11 percent of all layoffs, slightly more than its share of employment among establishments with at least 50 employees. A large number of separations due to contract completion occurred in this sector, which includes temporary help agencies and professional employer organizations.

TWO SECTORS THAT WERE RESPONSIBLE for a substantial portion of layoffs in the greater New York area prior to 2001 were the manufacturing sector and the transportation and warehousing sector. The share of area separations in these two sectors declined after 2001, while layoff activity increased in four other sectors: construction; administrative and waste services; arts, entertainment, and recreation; and accommodation and food services. The differences between the manufacturing sector and the transportation and warehousing sector, reflected in the nature of, and reason for, the layoffs, as well as the extent of related permanent closures, contributed to a fundamental change in the character of job displacement in the New York area. Particularly noteworthy is the fact that layoff displacement increased among several local industries during periods of employment growth.

The mass layoff experience in the greater New York area after 2001 was qualitatively different from what it was prior to 2001 , in contrast to the national pattern. Although some of the difference might be explained by the local industry mix, other factors helped transform the character of extended mass layoffs in New York. Foremost, the New York
area experienced dramatic growth in layoff actions due to the completion of employment contracts. In 2005 and 2006, contract completion accounted for more nonseasonal layoff events than internal company restructuring did, reversing the pattern of the past. A possible explanation for this shift is that increased business activity, especially within construction, coupled with a drive to keep costs down throughout industry, led to both an increase in contracting and a decrease in costly restructuring. ${ }^{18}$ Furthermore, as suggested by the analysis of New York area data presented in this article, the ability of employers to adapt to both competitive pressures and slack work by trimming staffs varied by industry. For example, large employers in apparel, a key local manufacturing industry, reduced the size of their workforce more often than permanently closing down operations.

The analysis presented herein has attempted to make

## Notes

${ }^{1}$ The New York-Northern New Jersey-Long Island Metropolitan Statistical Area (MSA), as defined by the Office of Management and Budget in Bulletin 06-01, is composed of New York City and Nassau, Putnam, Rockland, Suffolk, and Westchester Counties in New York; Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Sussex, and Union Counties in New Jersey, and Pike County, Pennsylvania. For convenience, the New York-Northern New Jersey-Long Island MSA is referred to as the New York area, or simply New York, throughout this article.
${ }^{2}$ Each extended layoff event causes at least 50 employees to lose work for more than 30 days. If large layoffs occur gradually, in such a way that the requirement of 50 unemployment claims filed in a 5week period is not reached, then the layoff event is not counted as an extended layoff by the Mass Layoff Statistics program. The 31-day minimum duration for qualification as a layoff limits the focus of the survey program to more permanent job dislocation. Most layoff events involving 50 or more workers last for 30 days or less. Along with the minimum required duration, in cases with no direct job loss, such as employers transferring work elsewhere without laying off workers, no information is collected, even though some displacement may result.
${ }^{3}$ The Mass Layoff Statistics program is a Federal-State program that utilizes a standardized, automated approach to identifying, describing, and tracking the effects of major job cutbacks, using data from each State's unemployment insurance database. Each month, States report on establishments with at least 50 initial claims filed against them during a consecutive 5-week period. The establishments are contacted by the State agency to determine whether these separations lasted 31 days or longer; if so, other information concerning the layoff is collected. The program also provides measures of laid-off workers' spells of unemployment to the point when regular unemployment insurance benefits are exhausted. These measures include the average number of continued claims, as well as the percentage of claimants receiving final payment. (A continued claim is a claim filed after the initial claim, either by mail, by telephone, or in person, for waiting-period credit or for payment for a certified week of unemployment.)
${ }^{4}$ An establishment is a unit at a single physical location at which predominantly one type of economic activity is conducted.
comparisons between the New York metropolitan area and the Nation over time. Additional information is needed, however, to complete an assessment of extended mass layoffs, affording opportunities for future research. Information on business turnover and job creation and destruction, by firm or establishment size in metropolitan areas, would round out the employment picture and help explain layoff trends. Beyond this benefit, the information could aid in the distribution of funds for employment services ${ }^{19}$ and provide a more robust picture of industry health. As the Workforce Information Council concluded in a report about local data needs, "Understanding the impact of layoffs and plant closings on labor markets, workers, and communities requires information on other dynamic aspects of the labor market. ${ }^{20}$ Indeed, local layoff data, such as those presented herein, would be greatly enhanced with local job dynamics data.
${ }^{5}$ Of the 25 categories currently used to classify justifications for a layoff, only a handful accounted for most of the separations in the New York area. Other, less frequently used reasons failed to yield publishable local-level results. Recently, the BLS concluded an in-depth review of all reasons for separation, in an effort to improve the capture and classification of economic reasons. Data published for 2007 now reflect an enhanced classification scheme. Additional and enhanced categories, as well as aggregations of related reasons, are currently available.
${ }^{6}$ Not an output of the BLS Mass Layoff Statistics program, the rates produced for these analyses were used to facilitate comparisons across years and among industry sectors. The layoff event rate indicates the number of layoff events per 100 establishments (in which at least 50 workers are employed). To compute this rate, establishment counts by size of establishment were derived from the U.S. Census Bureau's County Business Patterns. The layoff separation rate, indicating the number of extended mass layoff separations per 1,000 workers employed, was computed at the national level with employment data by size of establishment from the BLS Quarterly Census of Employment and Wages (ecew).
${ }^{7}$ A worksite closure involves the complete shutdown of either a multiunit or a single-unit establishment, or the partial closure of a multiunit establishment wherein entire worksites affected by layoffs are closed or planned to be closed.
${ }^{8}$ See Steven J. Davis, R. Jason Faberman, and John Haltiwanger, "The Flow Approach to Labor Markets: New Data Sources and Mi-cro-Macro Links," NBER working paper 12167 (National Bureau of Economic Research, April 2006); on the Internet at papers.nber.org/ papers/w12167.pdf.

9 "Analysis of Business Formation, Survival, and Attrition Rates of New and Existing Firms and Related Job Flows in Appalachia" (Camp Hill, PA, The Brandow Company, October 2001); on the Internet at www.arc.gov/images/reports/bizform/analysis-final.pdf.
${ }^{10}$ See non-seasonally-adjusted historical data on State gross job gains and losses, on the Internet at www.bls.gov/bdm.
${ }^{11}$ An initial claimant is a person who files any notice of unemploy-
ment to initiate a request either for a determination of entitlement to, and eligibility for, compensation or for a subsequent period of unemployment within a benefit year or other period of eligibility.
${ }^{12}$ Important distinctions exist between extended mass layoff data and displaced worker data. In addition to tallying those who lost jobs, the displaced worker count includes workers who left jobs in anticipation of losing them. Displaced workers are persons 20 years of age and older who lost or left jobs. Displaced worker data are restricted to longtenured employees: those who had worked for their employer for at least 3 years. Extended mass layoff data cover only separated workers, without any age or tenure restrictions. (See "Worker Displacement, 2003-2005," blS news release (Bureau of Labor Statistics, Aug 17, 2006), on the Internet at www.bls.gov/news.release/archives/disp_08172006.pdf.)
${ }^{13}$ The location quotient is the ratio of employment in a particular industry in a certain geographical area (in this article, the New York metropolitan area) to base-industry employment (in this article, the private-sector total), divided by the ratio of employment in the same industry in the base area (the United States) to base-industry employment in the base area. For this computation, 2006 annual averages from the QCEW were used.
${ }^{14}$ "Job Openings and Labor Turnover: January 2007," BLS news release (Bureau of Labor Statistics, Mar. 13, 2007), on the Internet at www.bls.gov/news.release/archives/jolts_03132007.pdf. Layoffs and discharges are involuntary separations initiated by the employer and include layoffs with no intent to rehire; formal layoffs lasting or expected to last more than 7 days; discharges resulting from mergers, downsizing, or closings; firings or other discharges for cause; terminations of permanent or short-term employees; and terminations of seasonal employees.
${ }^{15}$ Movement of work within the same company or to a different company, either domestically or outside the country, occurred in less than 10 percent of all nonseasonal layoff events in the United States. In 2004, the BLS Mass Layoff Statistics program added offshoring and outsourcing of work as reasons that identify job loss associated with the movement of work, within a company and to another company, domestically and out of the country. Nearly all the overseas relocations occurred in manufacturing. Nevertheless, because of publishability criteria, data on movement of work and overseas relocations were not available for the New York area. Criteria that safeguard confidentiality restrict what is published at the local level and result in the suppression of information that is available at the national level, such as additional information on relocations.
${ }^{16}$ See "New York City's Garment Industry: A New Look?" (New York and Albany, Fiscal Policy Institute, August 2003).
${ }^{17}$ In 1996, businesses with between 50 and 999 workers accounted for 16.4 percent of U.S. apparel establishments and 71.2 percent of em-
ployment in the industry. By 2006, the share had declined to 9.6 percent of establishments and 60.8 percent of employment. It must be pointed out, however, that small apparel manufacturers, namely, those employing fewer than 50 workers (and not studied by the BLS Mass Layoff Statistics program), accounted for 90 percent of establishments in 2006.
${ }^{18}$ Without knowing the exact reasons for layoffs in each New York area industry, however, this hypothesis cannot be completely validated. Additional data limitations include employer coverage and the duration of layoffs. BLS mass layoff data cover only establishments that employ 50 or more workers. Smaller establishments were outside the scope of the survey, although layoff activity in these establishments is documented to have been significant. Between 1992 and the fourth quarter of 2006, more than half of the gross job losses were in firms with fewer than 50 employees; during that period, 87.1 percent of firms which closed were in that size class. BLS Business Employment Dynamics size class statistics are measured at the firm level rather than the establishment level. (A firm is a business organization consisting of one or more domestic establishments in the same area and industry under common ownership or control. The firm and the establishment are the same for single-establishment firms.) (See "Business Employment Dynamics: Second Quarter 2006," bls news release (Bureau of Labor Statistics Aug. 16, 2007), on the Internet at www.bls.gov/news.release/archives/cewbd_08162007.pdf; and "New Quarterly Data from BLS on Business Employment Dynamics by Size of Firm," BLS news release (Bureau of Labor Statistics, Dec. 8, 2005), on the Internet at www.bls.gov/news.release/pdf/cewfs. pdf.) Although a large percentage of job flows occurs in smaller firms, BLS data indicate that larger size classes experienced more quarters of net loss, as reflected in negative net employment change, related to the 2001 recession.
${ }^{19}$ The Workforce Reinvestment Act (Public Law 105-220—Aug. 7, 1998) mandates the development of a comprehensive workforce information system that includes "the incidence of, industrial and geographical location of, and number of workers displaced by, permanent layoffs and plant closings." Analysis of such information, as intended by the Act, is not only for the allocation of Federal funds, but also for national, State, and local policymaking, the implementation of Federal policies, program planning and evaluation, and researching labor market dynamics.
${ }^{20}$ The Workforce Information Council is a collaboration of Federal and State agency officials that plans, guides, and oversees the U.S. workforce information system. The report, titled Needs and Alternatives for Plant Closing and Layoff Statistics: Report to the Workforce Information Council (Plant Closing and Layoff Statistics Work Team, Mar. 22, 2000), is on the Internet at www.workforceinfocouncil.org/documents/wg_ LayoffStats.zip.

# Knowing younger workers better: information from the NLSY97 

Papers from the 10th anniversary conference of the National Longitudinal Survey of Youth, 1997 cohort, addressed schooling, employment, adolescent behaviors, and many other aspects of youths' lives

Dan Black, Robert Michael, and Charles Pierret

Dan Black is a professor of public policy at the University of Chicago and Principal Investigator of the National Longitudinal Survey of Youth 1997 Cohort at NORC.
Robert Michael is the Eliakim Hastings Moore Distinguished Service Professor Emeritus at the University of Chicago and the Project Director of the National Longitudinal Surveys Program at NORC.
Charles Pierret is director of the National Longitudinal Surveys Program at the Bureau of Labor Statistics. E-mail:
pierret.charles@bls.gov The statements in this article do not necessarily reflect the views of any of the aforementioned institutions.

For more than 40 years, the U.S. Department of Labor has undertaken a series of major, national studies that track labor force behavior. These studies follow the same men and women, year after year, and by doing so reveal much about what affects wages and hours of work, how new skills influence success in the job market, how health and schooling interact to influence careers, and how unexpected events-from plant closings and bad weather to product innovations and the openings of new markets-affect earnings. The $\mathrm{Na}-$ tional Longitudinal Surveys (NLS) program has become one of the Nation's most respected and influential sources of data about the work force since its inception in 1966, administered through the Employment and Training Administration until 1984 and through BLS thereafter. The NLS program consists of seven samples of men and women who have been surveyed periodically and have reported on many of their behaviors in and related to labor markets. These surveys have been used in thousands of research projects within the Government and in research universities and analytic think tanks. The studies constitute a major component of what researchers now know about the roles of schooling, intellectual ability, health, mi-
gration, community, and family in developing the "human capital" and "social capital" that influence the distribution of earnings in the United States and the level of our Nation's gross domestic product.

In May 2008, BLS hosted a conference to highlight new research using the most recent data from one of these data sources, the National Longitudinal Survey of Youth, 1997 cohort (NLSY97). ${ }^{1}$ This survey of young people born from 1980 to 1984 (age 12 to 17 in the first year of the survey) has now taken place for 10 consecutive years. The face-to-face interview of these youths asks about their schooling, employment, adolescent behaviors, and many other aspects of their lives. In the data that were available for study at the time of the conference, these nearly 9,000 men and women from across the Nation were only in their early- to mid20 s, but already their reported experiences and behaviors revealed important facts that will have an impact on the labor force for decades to come. This article offers a brief and informal characterization of a few of the studies on which presenters reported at the conference. The conference presentations were based on preliminary research findings of these studies that are now undergoing peer scrutiny prior to official publication in
scholarly journals and books. (See the box.)

## Employment

Changing characteristics of youth. Employment of the NLSY97 youths is perhaps the central behavior of interest. One important paper concerning employment presented at the conference was written by Joseph Altonji, Prashant Bharadwaj, and Fabian Lange from Yale University and entitled "Changes in the Characteristics of American Youth: Implications for Adult Outcomes." The paper asks what one can predict today about the labor force 20 years from now when the NLSY97 cohort will be in its peak earning years. The analysis is based on the experiences of the National Longitudinal Survey of Youth 1979 Cohort (NLSY79)—an earlier NLS cohort, fielded in 1979-with
respondents born between 1957 and 1964. The authors use the relationship between early labor-market-relevant characteristics of youths in the NLSY79 and their subsequent mid-career labor market outcomes to predict midcareer labor market outcomes of the NLSY97 cohort on the basis of their current characteristics.

The paper comprises two parts. In the first, the authors "create a set of youth characteristics that correlate with adult outcomes and are comparable across the NLSY97 and the NLSY79." Even though the authors attempt to make the two data sets directly comparable, differences in sampling, attrition, and questions make this a complicated exercise. For example, the NLSY97 was sampled at younger ages (12-17) than the NLSY79 (14-22). Although a greater percent of youths eligible for the sample were actually interviewed in the first round of the NLSY97,

## Tenth Anniversary Conference Papers, NLSY97, May 29-30, 2008

Joseph G. Altonji, Prashant Bharadwaj, and Fabian Lange, "Changes in the Characteristics of American Youth: Implications for Adult Outcomes."

Joseph G. Altonji, Sarah Cattan, and Iain Ware, "Sibling Influences on Teenage Risky Behaviors."

Alison Aughinbaugh and Rosella M. Gardecki, "Attrition in the National Longitudinal Survey of Youth 1997."

Philippe Belley, Marc Frenette, and Lance Lochner, "PostSecondary Attendance by Parental Income: A Canada-U.S. Comparison."

Dan A. Black, Kerwin Charles, and Seth Sanders, "The Problem with Men."

Dan A. Black, Robert T. Michael, and Kanru Xia, "The Propensity to be an NLSY97 Respondent: Evidence from the Screener Data."
A. Rupa Datta Parvati Krishnamurty, "High School Experience: Comparing Self-Report and Transcript Data from the NLSY97."

Keith Finlay, "Effect of Employer Access to Criminal History Data on the Labor Market Outcomes of Ex-Offenders and Non-Offenders."

Tricia Gladden and Charles Pierret, "Employment Before Age 16: Does it Make a Difference?"

Jeffrey Grogger, "Speech Patterns and Black-White Wage

Inequality."
Carolyn J. Hill, Harry J. Holzer and Henry Chen, "Against the Tide: Household Structure, Opportunities, and Outcomes among White and Minority Youth," chapters 3 and 4.

Robert Kaestner and Michael Grossman, "Effects of Weight on Adolescent Educational Attainment."

Jennifer Manlove, Mindy E. Scott, Erum Ikramullah, Kate Perper, and Emily Lilja, "Relationship Context and the Transition to a Nonmarital Birth."

Kristin Moore, and Kassim Mbwana, "Preventing Risky Sex and Adolescent Parenthood: Does the Effectiveness of Parenting Practices Differ For Children with Varied Risks?"

Randall J.Olsen, "The Desirability of Partner Traits and Two Decades of Change in the Marriage Market: A One-and-a-Half Sex Model of Marriage."

Michael R. Pergamit, "Who Runs Away from Home? An Exploratory Analysis."

James R. Walker, "Choice, Enrollment and Educational Attainment within the NLSY79 and NLSY97."

Kenneth I. Wolpin, and Antonio Merlo, "Youth Crime and High School Completion."

Lawrence Wu and Pamela Kaufman, "Two Decades of Change in Premarital First Births: Cohort Comparisons from the NLSY79 and NLSY97."

[^4]subsequent attrition has been higher. Because they were younger when they were first interviewed, NLSY97 sample members had more years to drop out of the survey before age 22 , when many of the characteristics that the authors study are measured. The authors devote a great deal of effort to ensuring that any differences in measured characteristics are real and not an artifact of survey differences.

The authors' most substantive finding is important: they find that the NLSY97 had more skills at the age of 22 than the NLSY79 did. The greatest advantage of the NLSY97 was in education; along all measured dimensions of educational attainment, the younger cohort was clearly superior to the older cohort. By age 22, the 1997 cohort had completed more than one-third of a year more of school, was more likely to have a high school diploma-or, failing that, to have a GED-and was much more likely to still be attending school or to have finished 14 years of school than the 1979 cohort. This skills advantage manifested itself in significant gains on the Armed Forces Qualifying Test (AFQT), the test the military uses to determine skill levels when making admission and job assignments. These gains were especially remarkable for minority youth, with African Americans' (or Blacks') scores improving by 36 percent and Hispanics' scores improving by 24 percent between the two cohorts (compared with a 5 percent improvement for Whites). Gains in parents' education were also significant, with the average NLSY97 youth having a mother with 1 year more of education and a father with three-quarters of a year more education than the mother and father of the youth's counterpart in the NLSY79.

Where the 1997 cohort falls short in comparison with the 1979 cohort is in the area of family structure. A much larger percentage ( 47 percent versus 25 percent) of the 1997 cohort was living in families in which one of the parents was not present. So although parents of the younger cohort had more skills to impart to their children, they had less contact with their children.

The second part of the Altonji, Bharadwaj, and Lange paper uses the reported childhood experiences from the 1979 and 1997 cohorts, along with the experiences from adulthood from the 1979 cohort, to predict outcomes for the 1997 cohort as adults. Using the characteristics derived in the first part of the paper, the authors estimate the impact that changes in skill level will have on the wage distribution when the cohort has reached middle age. Overall, they expect wages to increase by 6 percent to 7 percent, though the increase will be greater at the upper end of the distribution and lesser at the lower end. This means an increase in inequality over the next decades.

The authors suggest that increases in skills for groups
that were relatively disadvantaged in the 1979 cohort, however, will result in diminishing gaps between the sexes and among races. Black and Hispanic males will gain significantly on white males except at the very top of the wage distribution. From the bottom of the wage distribution to the 90th percentile, the wage gap should close by about 4 percentage points for both black and Hispanic males relative to white males. Similarly, wage gains for females should exceed those of males, causing the wage gap between the sexes to decrease by around 2 percentage points. Within-group inequality will grow as skills become more unequal within groups, but average skills across sex and race groups will become less unequal, resulting in less wage inequality across groups. So while the increase in inequality that has plagued the economy for the last 30 years is likely to continue, it will be based less on race and sex than it has been in the past.

The authors remind readers that their conclusions rest, necessarily, on the assumptions that the labor market premium or discount for a racial or ethnic group or for one sex or the other remains the same over time. Similarly, their expectations of the future labor market do not take into account broader questions pertaining to how the financial returns of schooling will change as markets and products develop or how the continued competitiveness of global markets might affect labor market trends. In this sense, the analysis undertaken by Altonji, Bharadwaj, and Lange offers only a partial answer to the question of how the workforce will fare in the years ahead, but their answer, cautiously constructed and conditioned as it is, uses these NLSY longitudinal data sets in the best way possible and offers a decidedly optimistic assessment of future developments in the labor force.

Employment before age 16. Another paper from the conference that focuses on employment is one that exploits the NLSY97's data on work history and its links across several domains to examine the consequences of employment at a very young age among the youths in the cohort. Tricia Gladden and Charles Pierret from the Bureau of Labor Statistics use the extensive data on very early employment in the NLSY97 in their paper "Employment Before Age 16: Does it Make a Difference?" They point out that collecting information on teen employment was a key reason that the survey was started. Standard labor market surveys such as the Current Population Survey only report about employment starting at age 16 . However, a majority of youths in the NLSY97 reported doing some work for pay before this age. Gladden and Pierret posit that it is unclear whether early employment is ultimately beneficial
to these youths. On the one hand, early employment may teach important lessons such as responsibility, perseverance, and self-reliance and allow youths to accumulate experience that will prove useful later in their careers. On the other hand, early employment may be distracting, taking youths away from educational and developmental activities that will prove more beneficial than the menial jobs that are available to young workers. It may also introduce them to older youths who are engaged in behaviors that are not age-appropriate for the young workers. Gladden and Pierret's paper explores the correlation between youth employment and a number of outcomes in the late teen years as a first attempt to measure the effects of early employment.

The NLSY97 interviewed youths as young as 12 and asked them to report on jobs they held at any time after their 12th birthday. Because these children were not legally able to hold a job with an employer, the NLSY97 concentrated on "freelance jobs" among this group. These are informal jobs such as babysitting or yard work where the employee works directly for the ultimate consumer of the service, usually on an as-needed basis. Respondents older than 14 were also asked about traditional "employee jobs"-that is, those in which the youth worked for an employer who provided goods or services to many consumers. Restaurants and retail establishments provided typical employee jobs for teens in the sample.

Gladden and Pierret identify respondents who worked in freelance jobs between the ages of 11 and 15 and those who worked in employee jobs at 14 or 15 . They then follow these youths until the age of 20 , examining various outcomes along the way. Two findings are notable from this research. First, once youths enter the labor force, they tend to continue to work throughout their teen years. Between 80 percent and 90 percent of youths who worked at a given age worked again at the next age. Thus, those who start young will likely continue to work at least part of the year until age 20. Second, after controlling for standard background variables (race, sex, income, family structure, parents' education, and AFQT score) working at freelance jobs at young ages is correlated with a number of negative outcomes. Those who worked at freelance jobs before age 15 achieved less schooling by age 20; smoked, drank alcohol, and used marijuana more often before age 16; and were more likely to carry a handgun, assault someone, or be arrested by age 18 than youths who waited until age 16 for their first job. Gladden and Pierret are quick to point out that this may be largely an effect of selection-those who are likely to work at a young age may also be the type to want less schooling and to engage in substance abuse
and delinquent behavior, in which case the correlation does not imply that working per se causes these behaviors. But the link between early employment and these outcomes certainly warrants further investigation.

Access to criminal records. One of the attractive features of the NLSY97 data set is that it captures a lot of information that is tangentially related to employment. One of these pieces of information is the youth's criminal record-the data include information on many illegal actions that resulted in arrests, convictions, periods of incarceration, and other run-ins with the law. Incarcerations, naturally, influence labor market behavior, especially when youths are incarcerated long enough to prevent them from participating in the regular labor market. The NLSY97, being a longitudinal data set, can be used to assess the impact of the incarceration on subsequent employment.

Keith Finlay from Tulane University, in his paper "Effect of Employer Access to Criminal History Data on the Labor Market Outcomes of Ex-Offenders and NonOffenders," uses the information about incarceration and subsequent employment along with one other piece of information-the State in which the young man or woman resides post incarceration. He points out that over the interval of interest for these cohorts of youths-1997 to 2003-some 16 States, starting with Florida in 1997, adopted the practice of releasing on the Internet information from the criminal records of all convicted felons. Finlay studies the employment experience of people who have and have not been incarcerated, in States with and without Internet reporting. An employer may have a notion that a job applicant of a particular type-age, sex, race, or ethnic group, for example-is more likely to have a criminal record. If this notion causes the employer not to hire someone of that type, this is a phenomenon called "statistical discrimination." However, argues Finlay, in a State that puts information concerning people's criminal records on the Internet-making it easy for employers to determine whether a particular job candidate is a convicted felon-employers have far less reason to "statistically discriminate" against non-felons. In short, this State policy is expected to be detrimental to the employment prospects of people who have been incarcerated but to be helpful to those from high-incarcerated groups who have not themselves been jailed.

Finlay explains that there are 369 NLSY97 respondents who have been incarcerated as adults ( 4.4 percent of his whole sample). For men age 19 , the cumulative rates of adult incarceration were: 3 percent of white males, 8 percent of African-American males, 4 percent of Hispanic
males, and less than 1 percent of each of the three groups of females. For men age 24 , however, the cumulative rates of those same six groups were dramatically higher: 8 percent of white males, 19 percent of African-American males, 12 percent of Hispanic males, and 2 percent to 3 percent of the respective groups of females.

Finlay studies the relationship between incarceration and employment, wages, and earnings; his findings confirm his expectations: "ex-offenders are less likely to be employed, have lower wages, and have lower earnings in [S]tates with Internet sites providing information about ex-offenders." And the magnitude of this effect is considerable: in the open-records States, ex-offenders have a 5-percentage-point lower likelihood of employment, 9 percent lower hourly wages and 19 percent lower annual earnings. The evidence is less striking, but again affirming, for the effects of open records for non-offenders from groups with high rates of incarceration; however, the association is not statistically significant.

## Education

Educational attainment. Education is certainly a key factor in the attainment of a successful career. The NLS data sets, with their depth of information on the educational experiences of cohorts 20 years apart, provide excellent data on the change in educational attainment over the last 2 decades. James Walker of the University of Wisconsin at Madison, in his paper titled "College Choice, Enrollment and Educational Attainment in the NLSY79 and NLSY97," provides a detailed comparison of the two cohorts and emphasizes some fascinating developments in the educational attainment of individuals in the two data sets at ages 24 or 25 . He reports an increase in mean years of schooling of 0.4 year from the 1979 cohort to the 1997 cohort; median years of schooling increased from 12 years for the 1979 cohort to 13 years for the cohort of 1997. Somewhat surprisingly, the interquartile range of schooling increased dramatically, from 1.5 years in the NLSY79 to 3.5 years in the NLSY97.

Walker documents a substantial decline in the percentage of people who did not obtain a high school diploma or pass the General Educational Development (GED) tests. Among males, for example, this fraction dropped from 14.8 percent in the 1979 cohort to just 7.6 percent in the 1997 cohort. For women, the drop was a bit less dramatic, from 11.8 percent in the 1979 cohort to 7.8 percent in the 1997 cohort. One can see the same pattern of improvement in education when considering those without a high school degree-either dropouts or those with GEDs. The
percentage of men without a high school degree declined from 23.8 percent in the 1979 cohort to just 16.7 percent in the 1997 cohort. For women, the gain is again somewhat muted; in the 1979 cohort, 19.7 percent of women did not have a high school degree, but by the 1997 cohort the figure had shrunk to 15.1 percent. This decline represents a substantial improvement in human capital across these two cohorts.

Results at other levels of education are equally encouraging. About 20.9 percent of men in the 1979 cohort had a bachelor's degree, a figure that increased to 24.2 percent in the 1997 cohort. For women, the increase was astonishing; in the 1979 cohort, 18.6 percent had a bachelor's degree, but by the 1997 cohort, 30.4 percent of women had a bachelor's degree. Thus, in the 1979 cohort, there were 1.12 men for each woman with a bachelor's degree, but by the 1997 cohort, this had fallen to just 0.80 man per woman.

This striking change reflects a difference between the sexes in college enrollment rates-while men's attendance at 4-year universities increased from 34.3 percent to 42.3 percent, women's attendance at 4-year universities increased from 30.9 percent to 47.8 percent. The graduation rate conditional on attending 4-year universities declined for men from 60.9 percent in the 1979 cohort to 57.2 percent in the 1997 cohort. Despite the large increase in college attendance among women, their graduation rate increased from 60.2 percent to 63.6 percent. Thus, in the 1997 cohort, women were more likely than men to attend university, and those who did were more likely than men to graduate.

African Americans, too, made considerable progress, although the gains are much more concentrated in the upper end of the distribution for Blacks than for Whites. For instance, the percentage of black respondents who did not obtain either a GED or a high school diploma declined from 16.5 to 13.5 from the 1979 cohort to the 1997 cohort, whereas the corresponding percentage of white respondents declined from 11.3 to 5.8 . Thus, despite starting from a smaller percentage of nongraduates, Whites experienced a greater decline in the percentage who did not obtain either a GED or high school diploma than did Blacks. Similarly, the percentage of black respondents without a high school degree was essentially unchanged, increasing from 25.2 in the 1979 cohort to 25.3 in the 1997 cohort. For Whites, however, that percentage dropped from 19.0 in the 1979 cohort to 13.2 in the 1997 cohort. Progress was even more dramatic for Hispanics. In the 1979 cohort, 36.5 percent of respondents did not have a high school degree, but this dropped to 19.6 percent in
the 1997 cohort. Thus, in one generation, African Americans replaced Hispanic Americans as the group having the highest fraction of youth without a high school degree.

At the other end of the distribution, however, African Americans showed a much more substantial improvement than did Hispanics. In the 1979 cohort, 8.5 percent of the African American population had a bachelor's degree by age 25 , but this percentage grew to 15.0 by the 1997 cohort. In contrast, in the 1979 cohort, 9.4 percent of Hispanics had a bachelor's degree by age 25 , but this grew much less rapidly, to 11.7 percent in the 1997 cohort. By comparison, the percentage of whites with a bachelor's degree grew from 23.9 in the 1979 cohort to 32.6 in the later cohort.

Thus, there is a very distinctive pattern among the three major race/ethnic groups. For Whites, education levels have increased across the distribution, with fewer who fail to obtain a high school degree and an ever-greater proportion obtaining a bachelor's degree. The 1980s and 1990s were a period of spectacular increase in the returns to investment of schooling, and the change in the behavior of the white Americans in the cohort is generally and properly viewed as a response to that increase in returns. In contrast, the Hispanic Americans in the cohort exhibited a modest growth in the proportion obtaining a bachelor's degree but a substantial decline in the proportion without a high school degree. Thus, the distribution of education levels among Hispanics became much more concentrated in younger cohorts. African Americans had a substantial expansion in the proportion with a bachelor's degree but virtually no change in the proportion without a high school degree. Thus, the distribution of educational levels among African Americans became more diffuse in the younger cohorts. Understanding the reasons for these three distinct changes in the distribution of educational levels will be an important goal for future research.

Walker also reports differences in educational attainment by the respondents' scores on the Armed Forces Qualification Test (AFQT). He divides the respondents into thirds ("terciles"), and reports the educational attainment of each. Here, again, the news is good: in each ability tercile the fraction without a high school degree declined and the fraction with a bachelor's degree increased. Not surprisingly, the largest drop in the proportion of people without a high school degree was in the lowest tercile of AFQT scores. In the 1979 cohort, 39.5 percent of the lowest ability third did not receive a high school degree, but this fell to 35.3 percent in the 1997 cohort. Walker also documents a large increase in the proportion of people getting a GED in this bottom tercile: 11.3 percent did so
in the 1979 cohort, whereas 14.3 percent did so in the 1997 cohort. The largest growth in the proportion with a bachelor's degree occurred in the middle tercile of AFQT scores, a rise from 18.2 percent in the 1979 cohort to 22.1 percent in the 1997 cohort.

The effects of parental resources. A similar pattern emerges when Walker partitions the sample into terciles by parents' income, measured in the first round for both cohorts. From the 1979 cohort to the 1997 cohort, in each tercile the proportion without a high school degree declined, and the proportion with a bachelor's degree increased. There is one important difference in the results for parental income compared with the results for the AFQT. The greatest gain in the proportion obtaining a bachelor's degree occurred in the lowest tercile of the AFQT score distribution but in the highest tercile of parental income. Indeed, there is a strong monotonic relationship between income and the percentage point gain in the proportion with a bachelor's degree: the highest tercile had an 11.4-percentage-point increase, the middle tercile had a 7.8-percentage-point increase, and the lowest tercile only had a 1.7 percentagepoint increase. Thus, the correlation between the possession of a bachelor's degree and parental income became even stronger in the younger cohort.

This increased correlation of educational attainment and parental income suggests a growing importance of parental resources in determining who can afford college. In a paper they presented at the recent NLSY97 conference, Philippe Belley and Lance Lochner of the University of Western Ontario and Marc Frenette of Statistics Canada reported on a preliminary investigation that is further exploring this correlation using the NLSY97 and a Canadian longitudinal data set. ${ }^{2}$ They expand upon a paper that Belley and Lochner recently published in the first issue of the Journal of Human Capital, ${ }^{3}$ in it, Belley and Lochner use a structural model and the NLSY79 and NLSY97 to estimate the impact of parental resources on educational attainment. Consistent with several other studies, Belley and Lochner find that parental income and resources played virtually no role in the determination of enrollment rates for the 1979 cohort. For the 1997 cohort, however, parental resources were much more important in determining who attended college. The paper explains that parental income is important because students are constrained from borrowing against their future earnings. Thus, though it makes economic sense to attend college, many members of the younger cohort were able to do so only if their parents could help them financially.

Both the paper published in the Journal of Human Cap-
ital and the paper presented at the conference highlight a potentially serious problem in American higher education. In the years between the two cohorts, the cost of highquality university education has skyrocketed. For instance, the Chicago Tribune has reported that the cost of sending an in-State student to the University of Illinois at Cham-paign-Urbana-an elite public institution-now exceeds $\$ 20,000$ a year. Because the growth of college tuition and fees has far outstripped the growth in federally funded student loans, one might expect that the increased costs would limit access to costly, elite schools. Nevertheless, Americans face a staggering quantity of choice in higher education with wide variation in prices. Community colleges, for example, often represent an attractive option at a price that is an order of magnitude lower than the cost at an elite school. These drastically lower prices, coupled with the possibility of living at home and avoiding additional costs, could lead one to believe that capital market constraints would not prevent aspiring college students from attending higher education.

However, there exists evidence to the contrary. In a series of papers, Todd R. Stinebrickner of the University of Western Ontario and Ralph Stinebrickner of Berea College examine the behavior of Berea College students. Berea is an especially useful college to study because it charges no tuition and provides students with a modest stipend as payment for a campus job. The policy is intended to assure that no students are excluded from Berea because they cannot afford the tuition bill. Yet, Stinebrickner and Stinebrickner find that despite the free tuition and limited direct cost of attending Berea, family income is still critically important for graduation. ${ }^{4}$ The reason seems to be that there are many events and circumstances-a parent's illness or unemployment, for example-that may make it difficult for students to complete their college studies. Students from wealthier families have a larger number of options available to address these difficulties. Understanding the roles of capital markets and family resources in accessing and completing college is an important research agenda for the future.

Obesity. A topic that has been a focus of much research in health economics is the direction of causality in the strong link between health and schooling. Some researchers suggest that schooling affects health, others suggest that health affects schooling, and still others suggest that there are other factors- third forces-that influence both in the same direction, causing the observed positive association. One of the authors of a paper at the recent NLSY97 conference, Michael Grossman of the City University of

New York Graduate Center, has been the primary scholar in this debate over the past several decades; the paper he and his colleague, Robert Kaestner of the University of Illinois at Chicago, presented at the conference addresses one small piece of this puzzle. ${ }^{5}$

Kaestner and Grossman note that adolescent obesity has risen dramatically in recent years, and they ask whether obesity has an effect on educational attainment among adolescents. If it does, that would be one avenue through which health status influences the level of education. Kaestner and Grossman point out that a relationship between obesity and educational attainment could work in several ways logically, and economic theory alone does not shed much light on which of several potential routes of influence might dominate. Obese adolescents might suffer from discrimination from teachers and/or peers that could adversely affect their schooling, and they might also have related health troubles such as sleeping disorders and depression that could adversely affect their cognitive functioning or cause them to miss days of school. Conversely, overweight youths might engage less in sports and physical activities and even in social activities, and as a result they may spend more, not less, time studying and thus perform better academically. Kaestner and Grossman turn to the NLSY97 data for evidence.

This is a case in which a negative finding is noteworthy. After undertaking a quite thorough study, with sophisticated formal theoretical modeling and statistical analyses, the researchers conclude that there is very little evidence in the NLSY97 data that obesity has any discernible effect on the educational attainment of these young adults, either positive or negative. They study boys and girls separately, looking at the extreme tails of the distribution of weight and noting the highest grade of school attended, the highest grade completed, and whether or not the student dropped out of school. In neither estimates from very simple models nor in Kaestner and Grossman's estimates from quite complex and highly controlled models is there evidence of an effect of weight on schooling. Obesity, they conclude, does not play a direct role in the strong, positive association between health and schooling.

## Social Behaviors

Although a primary motivation for the NLS program is a better understanding of the labor market experiences of the workforce, BLS has understood the importance of investigating a wide range of other behaviors, both within the family and in the community, as forces that affect employment, marketable skills, occupation choices and
opportunities, and career trajectories, as well as hours of work, wages, and earnings. The NLS data sets have long been used for studying many types of youth and adult behaviors, and the recent conference suggests that the most recent NLSY97 data have much to contribute to our understanding of family and youth behaviors.

Marriage and offspring. Robert Michael of the University of Chicago, in remarks that opened the conference, pointed to both the continuity and change in demographic trends between the 1979 and 1997 cohorts. The most dramatic trend, he claimed, is found in terms of formal marriage: 8.7 percent of 18 -year-old females in the 1979 cohort had married, whereas only 1.6 percent of their counterparts in the 1997 cohort had done so. By age 21 the trend was even more striking, with 33.4 percent of the females from the 1979 cohort married but only 12.1 percent from the 1997 cohort married. Similarly, 15.1 percent of 21 -year-old men from the 1979 cohort were married, compared with 5.2 percent from the 1997 cohort. Although these figures reflect the well-documented decline in formal marriage in the United States, if instead one considers the percentage of the 1997 cohort who have formed a dyadic partnership, the numbers look much like the 1979 numbers for formal marriages: 33.1 percent of the females reported having formed a cohabitational partnership, and 19.1 percent of the males reported having done so. The big decline is in formal marriage, not in forming a dyadic partnership.

Concerning the percentage of young mothers, there was essentially no difference between the 1979 and 1997 cohorts- 7.8 percent of women in the 1979 cohort had a child by age 18, compared with 7.6 percent of the 1997 cohort. The difference between cohorts in the percentage of those who were mothers by age 21 is also small; 23.2 percent of the NLSY79 met the criteria, compared with 23.8 percent of the NLSY97. For the males, there was a slight increase in reported parentage at age 18, with 1.3 percent of the 1979 cohort having at least one child at age 18, compared with 2.3 percent of the 1997 cohort. By age 21, 8.6 percent of the males from the 1979 cohort reported being a father, compared with 11.2 percent of the males in the 1997 cohort.

Adolescent sexual activity. Researchers from Child Trends, a Washington, DC, think tank that focuses on issues of child development and policy, investigated the risky behavior of adolescent sexual activity and the role that parents play in affecting this behavior. ${ }^{6}$ Kristin Moore and Kassim Mbwana examined whether the youths who were 12-14 at the beginning of the survey began having
sex before age 17 ( 53 percent did so), whether they used contraceptives or engaged in "unsafe sex" when they did have sex ( 16 percent were judged to have had unsafe sex in the 12 months before age 17), whether those who were sexually active had multiple partners by the time they turned 17 (some 44 percent had two or more partners), and whether or not they had become teenage parents before turning 18 ( 6 percent did so). This study examined three aspects of how the teenagers' parents'styles of supervision, guidance, and support affected these elements of the youths' sexual behavior. First, the authors investigated the influences of different parenting styles on sexual risktaking by adolescents. Second, the researchers examined whether the influence of parenting style varied depending upon the risks that the adolescent faced. Finally, Moore and Mbwana examined whether parental awareness of children's activities prevented the children from engaging in sexual activity.

The NLSY97 data have considerable detail regarding how parents guide and monitor their children's social and private lives. One set of measures used in this study-measures that are well-explored by developmental psychologists and believed to be influential in the development of preschool and elementary school children-characterizes parental styles into a four-category typology: some parents are "authoritative" (which means they are rather strict, yet highly supportive, of their adolescent children), others are "permissive" (which means they are not strict, but are quite supportive), others are "uninvolved" (meaning they are neither strict with their children nor supportive), while still others are "authoritarian" (meaning they are strict, but not supportive). Moore and Mbwana's study borrows this typology and uses it to analyze the influence of parenting styles on the sexual behaviors of adolescents. In particular, the study focuses on the influence of an "authoritative" (strict but supportive) style of parenting.

The findings at this stage in the investigation are robust ones: holding constant many of the known factors that affect adolescent behaviors, authoritative parenting was clearly associated with less sexual risk taking by girls, specifically through later initiation of sex, less unsafe sex, fewer sex partners, and lower rates of teenage parenting. For boys, the effects were not as strong, but where the effects were in evidence-in the age of onset of sexual ac-tivity-more authoritative parenting was associated with a delay in the age at first sex.

Greater levels of risky sexual activity occurring among adolescents' peers, in their schools, and in their neighborhoods were also associated with a higher probability of early sex, unsafe sex, more partners, and teen parenthood;
however, little evidence was found that the importance of parenting varies by risk level. These studies concerning parenting styles control for several important factors that also influence this behavior. For example, adolescents who live with both their biological parents engage in less sexual risk taking, those whose mothers were themselves teenage parents exhibit more risky sexual behaviors, and those who grew up in an impoverished family take more sexual risks.

The last issue that the Moore and Mbwana paper explores is the influence of parental awareness of adolescents' activities, as measured by how well the parents know their child's close friends, how well they know those close friends' parents, whether they know with whom their child spends time when he or she is not at home, and how well they know their child's teachers. The findings suggest that parental awareness results in both boys and girls delaying sexual activity, engaging in less unsafe sex, and being less likely to have multiple sexual partners. The study concludes that "[p]arents matter for all adolescents" in this important arena of sexual risk taking.

The influence of siblings. Another paper presented at the conference also looks within the family at factors that appear to be associated with risky behaviors, but this one focuses on the influence of siblings instead of parenting styles. ${ }^{7}$ Joseph Altonji of Yale, Sarah Cattan of the University of Chicago, and Iain Ware of 3iGroup point out that several studies have found substantial correlations in risky behavior between siblings, raising the possibility that adolescents may directly influence the actions of their brothers or sisters. The researchers note that there is an insightful body of literature in psychology that suggests that such sibling effects may exist, particularly for younger children who look to their older siblings for cues about appropriate teenage behaviors. The authors note, however, that much of the published empirical analyses of sibling effects are compromised by the difficulty of distinguishing direct influences from the impact of shared unobserved factors. Multivariate regressions relating the behavior of siblings undoubtedly reflect the fact that a variety of common influences affect the actions of all siblings in a household, so the fact that siblings behave similarly does not necessarily imply that one child affects his or her brother or sister. Altonji, Cattan, and Ware look at a wide range of risky activities from the NLSY97 data set and find strong positive sibling correlations. The primary contribution of the paper is their assessment of the extent to which these correlations are due to causal effects from one sibling to another.

The researchers articulate a sibling model of consumer choice that serves as a basis for their econometric identification strategy. It is based on the fact that the behavior of a child at a given point in time cannot directly influence a sibling's actions in a prior year. The authors also assume that the direction of any influence is from an older sibling to a younger sibling. They estimate a joint dynamic model of the behavior of older and younger siblings that allows for family effects, individual specific heterogeneity, and past choices. Their results suggest that smoking, drinking, and marijuana use are influenced by the example of older siblings, although much of the link between siblings reflects association rather than causation.

Running away from home. One of the more unusual topics explored at the recent conference addressed the issue of adolescents running away from home. ${ }^{8}$ In his paper, Michael Pergamit of the Urban Institute explains what the published literature reveals about runaways. He states that nearly all the available information regarding this phenomenon comes from samples of youths in homeless shelters, in crisis centers, or living on the street; these data sources, unfortunately, do not permit analysts to compare youths who have run away with those who have not. For example, one cannot investigate the prevalence of running away using data of that nature, nor can one track how runaways and youths who have never run away differ in their developmental pathways prior to or after running away. Moreover, the information about the family and schooling experiences prior to running away are, in the shelter samples, necessarily collected after the running away episode and may thereby be tainted or shaded by the experience itself.

The NLSY97 annually asked the youths if they had ever run away from home. The survey used the definition supplied by the Department of Justice, that running away is "staying away at least one night without parents' prior knowledge or permission." Each year, as long as the youth was residing with parents and was under age 18 , he or she was asked about incidents of running away occurring since the previous interview; consequently, this study captures a sample of runaways that reflects the whole set of children who ran away, not just those who ended up in shelters or crisis centers. In some cases, the data also include key information about the youth from years prior to episodes of running away. The paper exploits these features of the NLSY97 data, focusing primarily on children who were age 12 or 13 in the first year of the study.

The prevalence of running away is itself one of the most interesting findings in this paper, which estimates that of
the roughly 20 million U.S. youths born between 1980 and 1984, some 17.8 percent had run away by the age of 18. The rate is higher for females- 19.8 percent-than for males- 15.8 percent. It is also slightly higher for Hispanic youths than for Whites or African Americans: 19.4 percent of Hispanics and 17.4 percent of both Whites and African Americans had run away by age 18 . Of all children who had run away, about half had done so only once, but approximately 10 percent had done so seven or more times; of the youths who reported incidents of running away, the average number of these incidents was 3.3. About one-third of children who ran away had done so before age 14 .

In a statistical model that identified which adolescents had run away from home while controlling for several attributes, it is interesting that the sex of the adolescents was not a factor. As if to illustrate the challenge of summarizing findings from complex studies, however, the paper notes that boys who did run away did so less often than girls but that boys did so at a younger age than girls. African Americans and Hispanics were both less likely to run away than were Whites after statistical controls were introduced. Similarly, having siblings had no apparent effect on running away. Children with higher scores on the AFQT were less likely to run away, while, as one might expect, youths who had a poor relationship with parents, who scored high on measures of behavioral problems, or who had mental health problems were significantly more
likely to run away. Urban youths were much more likely to run away than youths in rural settings. The study also finds that "the more things the family does together the lower is the probability of running away." The author notes that it will be important to track the effects of running away on the life trajectories of these young men and women as they age through their 20s and beyond. This is surely one of the key benefits of a data set like the NLSY97 that identifies behaviors and events early in life and can then reveal whether that behavior is associated with later life events, and, if so, to what extent.

THE FINDINGS BRIEFLY SUMMARIZED IN THIS ARTICLE represent about half the research papers delivered at the Tenth Anniversary Conference in May 2008. In turn, the papers presented at the conference reflect only a small portion of the new facts and relationships discovered so far by researchers working with the NLSY97 data sets. Assuming the survey respondents continue to be willing to accept the request for an hour-long interview each year, as their lives unfold over the next decade or so, researchers' understanding of the U.S. labor market and the behavior of the cohort born between 1980 and 1984 will continue to grow. The ever-improving understanding of the forces shaping labor market experiences should help policymakers, and the deeper understanding of the consequences of private decisions should be of value to families everywhere.

## Notes

ACKNOWLEDGMENT: The authors thank Rupa Datta and Donna Rothstein for contributions to this summary paper.
${ }^{1}$ The nlsy97 Tenth Anniversary Conference, held in 2008 at the Bureau of Labor Statistics in Washington, DC, May 29-30, was supported by grants from the Spencer Foundation, the norc Population Research Center, and the Harris School's Center for Human Potential and Public Policy.
${ }^{2}$ Philippe Belley, Marc Frenette, and Lance Lochner, "Post-Secondary Attendance by Parental Income: A Canada-U.S. Comparison." Paper presented at the nLsy97 Tenth Anniversary Conference, Washington, DC, May 2008.

[^5]${ }^{4}$ Ralph Stinebrickner and Todd R. Stinebrickner, "Understanding Educational Outcomes of Students from Low-Income Families: Evi-
dence from a Liberal Arts College with a Full Tuition Subsidy Program," Journal of Human Resources, Summer 2003, pp. 591-617.
${ }^{5}$ Robert Kaestner and Michael Grossman, "Effects of Weight on Adolescent Educational Attainment." Paper presented at the NLSY97 Tenth Anniversary Conference, Washington, DC, May 2008.

[^6]${ }^{7}$ Joseph G. Altonji, Sarah Cattan and Iain Ware, "Sibling Influences on Teenage Risky Behaviors." Paper presented at the NLSY97 Tenth Anniversary Conference, Washington, DC, May 2008.

[^7]
# Multiple Jobholding in States in 2007 

Jim Campbell

In 2007, 26 States and the District of Columbia experienced decreases in their multiple jobholding rates from 2006, 20 States recorded increases, and 4 States had no change. ${ }^{1}$ The national multiple jobholding rate was unchanged in 2007, at 5.2 percent. The largest over-the-year rate decreases among the States were

Jim Campbell is an economist in the Division of Local Area Unemployment Statistics, Bureau of Labor Statistics. E-mail: Campbell.Jim@bls.gov
posted in Idaho ( -1.8 percentage points), Alaska ( -1.6 points), and Wyoming ( -1.3 points). Kansas experienced the largest increase among the States ( +1.4 percentage points), followed by Kentucky ( +0.8 point) and West Virginia ( +0.7 point).
Although the U.S. multiple jobholding rate was the same as in 2006, it was 1.0 percentage point lower than in 1996, when it peaked at 6.2 percent. ${ }^{2}$ Compared with 1996, 44 States and the District of Columbia had lower multiple jobholding rates in 2007, and only 6 States had higher rates. The largest declines over this period occurred in Idaho ( -3.0 per-
centage points), Indiana and Missouri ( -2.8 points each), and Arkansas ( -2.6 points). Over the 1996-2007 period, only one State had an increase in its multiple jobholding rate that was greater than 0.4 percentage point: Vermont ( +0.8 point).
The multiple jobholding rates for individual States varied considerably from the U.S. average. (See chart 1.) Overall, 28 States had higher multiple jobholding rates than the national average, 20 States and the District of Columbia had lower rates, and 2 States had the same rate. Northern States generally had higher rates than southern States.

| State/area | 2006 | 2007 | State/area | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| United States ................................... | 5.2 | 5.2 | Missouri ................................... | 6.7 | 6.2 |
| Alabama .......................................... | 4.5 | 4.7 | Montana .................................... | 8.1 | 8.0 |
| Alaska ............................................... | 9.0 | 7.4 | Nebraska .................................. | 9.9 | 9.7 |
| Arizona............................................ | 4.7 | 4.5 | Nevada ..................................... | 4.0 | 3.8 |
| Arkansas ........................................... | 5.4 | 4.5 | New Hampshire .......................... | 7.3 | 6.9 |
| California .......................................... | 4.2 | 4.4 | New Jersey................................ | 4.9 | 4.6 |
| Colorado......................................... | 5.8 | 6.0 | New Mexico............................... | 5.3 | 5.0 |
| Connecticut...................................... | 5.9 | 6.3 | New York.................................. | 4.5 | 4.2 |
| Delaware ......................................... | 4.4 | 4.4 | North Carolina........................... | 5.3 | 5.3 |
| District of Columbia ........................... | 5.4 | 4.6 | North Dakota ............................. | 8.4 | 8.7 |
| Florida .............. | 3.9 | 3.9 | Ohio ......................................... | 6.4 | 6.3 |
| Georgia ............................................ | 3.5 | 4.1 | Oklahoma ................................. | 4.7 | 4.4 |
| Hawaii............ | 8.0 | 8.2 | Oregon..................................... | 6.3 | 5.7 |
| Idaho......................................................... | 8.3 | 6.5 | Pennsylvania............................. | 5.5 | 5.3 |
| Illinois ................................................ | 4.9 | 5.2 | Rhode Island ............................... | 6.9 | 6.6 |
| Indiana ........... | 4.3 | 4.7 | South Carolina........................... | 4.5 | 4.9 |
| lowa.................................... | 8.9 | 8.8 | South Dakota ............................. | 9.9 | 10.2 |
| Kansas .............................................. | 7.5 | 8.9 | Tennessee ................................ | 5.1 | 4.5 |
| Kentucky............................................ | 5.6 | 6.4 | Texas ............. | 4.3 | 4.5 |
| Louisiana ............................................ | 4.5 | 4.4 | Utah........................................... | 7.5 | 6.9 |
| Maine................................... | 8.2 | 8.1 | Vermont........... | 9.3 | 9.4 |
| Maryland ................. | 5.5 | 5.9 | Virginia ...................................... | 4.9 | 4.8 |
| Massachusetts.................................. | 5.6 | 5.2 | Washington............................... | 5.7 | 5.9 |
| Michigan................................................ | 5.6 | 5.7 | West Virginia ............................. | 3.5 | 4.2 |
| Minnesota .......................................... | 8.7 | 8.7 | Wisconsin .................................. | 7.7 | 7.5 |
| Mississippi........................................ | 4.1 | 4.7 | Wyoming................................... | 9.3 | 8.0 |

Chart 1. Multiple jobholding rates by State, 2007 annual averages


All seven States in the West North Central division continued to register multiple jobholding rates above that of the Nation. The northern States in the Mountain and New England divisions also continued to have relatively high rates. South Dakota recorded the highest rate, 10.2 percent, followed by Nebraska and Vermont, at 9.7 and 9.4 percent, respectively. Many of the upper Plains States with high multiple jobholding rates also have high shares of agricultural and part-time employment. In addition, multiple jobholding seems
generally to be highest in States that have low average commuting times. ${ }^{3}$ Most of the States with high multiple jobholding rates in 2007 have had consistently high rates over the 1996-2007 period.

Thirteen of the 16 States in the South region, as well as the District of Columbia, had multiple jobholding rates below the U.S. figure. ${ }^{4}$ Among the 9 States with rates below 4.5 percent, 6 were in the South. Nevada recorded the lowest multiple jobholding rate in 2007, 3.8 percent, followed by Florida, at 3.9 percent, and Georgia, at 4.1 percent.

## Notes

${ }^{1}$ Data on multiple jobholders are from the Current Population Survey (CPS), a survey of about 60,000 households selected to represent the U.S. civilian noninstitutional population aged 16 years and older. The CPS is conducted monthly by the U.S. Census Bureau for the Bureau of Labor Statistics. Multiple jobholders are those who report in the reference week that they are wage or salary workers who hold two or more jobs, self-employed workers who also hold a wage or salary job, or unpaid family workers who also hold a wage or salary job.
${ }^{2}$ Annual multiple jobholding data for States became available following the redesign of the Current Population Survey in 1994.
${ }^{3}$ Average commute times are from the 2000 Census of Population and Housing.
${ }^{4}$ The South region is composed of the East South Central, South Atlantic, and West South Central divisions.

## Procrastination: an economic analysis

Most people are quite familiar with procrastination-a tendency that affects the way they complete (or do not complete) projects in the workplace, in school, at home, and elsewhere. A conventional explanation for procrastination is that people act rationally, choosing to postpone tasks because they find it difficult to muster the self-discipline to begin them earlier. In "An Economic Model of the Planning Fallacy" (nBER Working Paper Series, National Bureau of Economic Research, August 2008), Markus K. Brunnermeier, Filippos Papakonstantinou, and Jonathan A. Parker use advanced mathematics, along with data from experiments, to argue in favor of an alternative theory. They contend that the only cause of procrastination is people's tendency to underestimate the amount of time needed to complete a project.

Various studies-in both laboratory and nonlaboratory settings-have demonstrated that when given an unpleasant task, the average person takes much longer to complete it than he or she predicted before beginning the task. The paper's authors call the faulty reasoning behind this behavior "the planning fallacy." Because of the planning fallacy, people often spend a disproportionately large amount of time working on projects close to the deadline. The authors explain that people do this because the utility derived from the felicitous belief that a project will be easy to complete outweighs the cost of not properly "smoothing" work over time. The researchers believe that, subconsciously, people actually do realize about how long most projects take; yet, when faced with a new project, they still consciously believe that the project will take less time.

When people are asked to complete a simple, non-onerous task in an experiment, they actually tend to complete the task slightly more quickly than they predicted beforehand. However, when people are paid on the basis of how quickly they complete either a non-onerous or a burdensome task, they tend to underestimate the amount of time necessary to finish it. By contrast, financial incentives for accurate prediction can eliminate the planning fallacy.

Brunnermeier, Papakonstantinou, and Parker argue that the results of the aforementioned experiments bolster their view that procrastination is based on the planning fallacy. The greater the anticipatory benefit to believing that the project will take little time, the stronger is the tendency to underestimate the amount of time necessary to complete it. Nevertheless, most people are aware of their penchant for postponing work; consequently, they often set intermediate deadlines in an effort to mitigate their procrastination.

## Business cycle analysis

Policymakers and business managers alike must regularly face the challenge presented by the recurrent cyclical fluctuations in the U.S. economy. Understanding the business cycle is crucial to both: policymakers must make decisions about monetary and fiscal policy in an effort to smooth out the cycles, while profit-maximizing managers must make informed decisions about their individual firms during the various stages of the business cycle. In "How the U.S. economy resembles a (very) big business" (Economic Perspectives, Federal Reserve Bank of Chicago, third quarter 2008), senior Bank economist Jeffrey R. Campbell analyzes the fluctuations in U.S. economic growth by treating the
U.S. economy as a very large business. This fictional business employs all of the workers in the U.S. economy, owns all of the capital, and returns all of its profits to its "shareholders," the U.S. public. Campbell presents tools for evaluating the contributions of particular product lines to U.S. economic growth and the effect they have on the business cycle. He extends his analysis by using the same tools to measure a large firm's exposure to macroeconomic risks.

Campbell employs two macroeconomic concepts to assess the contributions to overall economic growth made by particular sectors, as well as the sustainability of that growth: the fundamental national product accounting identity, which divides the total value of goods and services produced by the economy into discrete expenditure components, and the contributions to growth formula, which equates the rate of GDP growth with the sum of the individual component growth rates multiplied by their share of expenditures in the previous quarter.

When he applies these concepts to the U.S. economy, Campbell finds that macroeconomic risks are largely the result of periodic fluctuations in nonresidential fixed investment, which accounts for a substantial portion of overall economic activity. (Nonresidential fixed investment consists of purchases by firms of nonresidential structures, equipment, and software.) Expenditures on nondurable goods and services, which represent a very large portion of national income, fluctuate little from quarter to quarter and thus contribute only marginally to macroeconomic risks.

Campbell suggests that his methodology might be used by others to set macroeconomic benchmarks and "start a conversation about a business's place in the larger economy."

## Employment and America's future

A Future of Good Jobs? America's Challenge in the Global Economy. By Timothy J. Bartik and Susan N. Houseman, Kalamazoo, MI, Upjohn Institute for Employment Research, 2008, 327 pp., \$20.00/paperback; \$40.00/cloth.

The papers in this volume were prepared by editors Timothy J. Bartik and Susan N. Houseman for a conference held in June 2007, in honor of the 75 th anniversary of the W.E. Upjohn Unemployment Trustee Corporation. In the 15 months between the conference and the writing of this review, the state of the U.S. economy has worsened. Although the need to address the labor market and related problems identified in this excellent collection of papers is even greater now than when they were written, macroeconomic conditions make it more difficult to do so. It is as if able diagnosticians supplied the prognosis for a patient with several interacting chronic conditions, only to have the patient come down with the flu. The suggested treatment plan may have to be postponed or modified until the temporary ailment is over.

Chapter 1 provides a clear synthesis of the topics discussed by the authors of the remaining six chapters: Robert J. Lerman on education and training; Katherine Swartz on health care financing; Lori G. Kletzer on trade and immigration; Katharine G. Abraham and Susan N.Houseman on labor market issues for older workers; Paul Osterman on demand-side policies aiding lowerskill workers; and Steven Raphael
on problems and policies relating to disadvantaged workers in general and former convicts in particular. The analysis and policy proposals focus on problems facing workers in the lower $4 / 5$ of the income distribution. The net impact of economic change in recent decades is manifested in growing income inequality, but the way in which inequality has grown has intensified the problem. Over the quarter century from 1980 to the mid-2000s, real wages have declined for the bottom 10th percentile of the wage distribution, and increased by less than 20 percent for the group between the 10th and 80th percentiles.

Presumably coincidentally, the chapters divide into two groups by authors' gender. The three by the male authors concentrate on problems faced by workers with lower levels of skill and education, whereas those written by the female authors are about issues that affect most of the population and workforce. This is not to imply that the former group is dealing with less important problems; rather, that those issues with broader impact may receive greater policy attention and political support than those affecting a smaller segment of the population.

Nearly 20 years ago, Gary Burtless edited a collection of papers on the plight of the unskilled, especially unskilled men, titled $A$ Future of Lousy Jobs? (See Burtless, Gary, ed. A Future of Lousy Jobs? The Changing Structure of U.S. Wages, The Brookings Institution, Washington, DC 1990.) According to Burtless:
"If the demand for unskilled labor has dropped, the obvious policy response is to improve the qualifications of less skilled workers to match the developing requirements of the job market. If
the $[\mathrm{N}]$ ation has too many unskilled workers, rather than too many bad jobs, both efficiency and equity will be served by improving the skills of workers now lodged at the bottom."
In addition to the play on that title, the current book's most direct link with the earlier work is in the chapters by Lerman, Osterman and Raphael. The "Lousy Jobs" analysis attributed the declining economic fortunes of less skilled men to their excess supply, combined with greater demand for more skilled workers, when firms and industries changed the skill mix of their labor inputs to meet the needs of the new technologies. There are simply not enough jobs for the less skilled, and, according to Burtless, the remedy is to upgrade the education and training of those at the bottom of the economic ladder.

The three authors just mentioned are generally in accord with this diagnosis for the less skilled worker in the contemporary labor market. Rapid technological change and increased globalization, plus the declining impact of institutional protections such as unions, make the outlook for less-skilled workers even bleaker today than it was in the early 1990s. Lerman's prescription includes developing educational approaches that raise and better reward noncognitive and occupational skills that are in short supply. This will require changes in emphasis within the educational sector, favoring work-based learning, which means a need for further investment by employers in the skills of workers. Osterman also calls for enhanced programs to encourage job upgrading in skills and pay; he sees the need as well for workers to have restored institutional safeguards,
such as increased minimum wages and acceptance of unions, which will complement the incentives provided to employers to promote upgrading. Raphael recommends helping lowwage workers directly by expanding the Earned Income Tax Credit (EITC) to bring in childless adults, especially low-income married couples. He also points to the often neglected subsector of the low-wage, low-skill population and the growing number of individuals with prison records, and advocates specific policies to reduce the barriers they face to obtaining productive, legal jobs.

Katherine Swartz is concerned with reforming how the United States finances health insurance in the face of declining percentages of workers (and retirees) presently covered by employer-based plans. The three principles of her proposed strategy are:

1. Everyone should be enrolled in a health insurance plan for which they pay some minimum amount;
2. Additional premiums paid by individuals and families should be in proportion to their income; and
3. Contributions (taxes) should be collected from employers.
Swartz argues that such a comprehensive cost-sharing plan should not be more expensive than the present system of spotty coverage that emphasizes cost-shifting and contains
perverse incentives for both workers and employers.

The remaining two chapters focus on the problems facing workers who are dislocated or need to find new jobs for other reasons. Two of the initiating factors analyzed by Lori Kletzer are increasing trade and immigration. Jobs may disappear due to import competition or outsourcing, while increased inflows of foreign-born workers augment the labor supply at both the low skill and high skill ends of the labor market. The consensus among economists is that, although there is a net social gain from trade and immigration, those who experience losses are concentrated among the less skilled native-born population, worsening their income and employment prospects. Kletzer notes, however, that the largest and most comprehensive adjustment assistance program (Unemployment Insurance or UI), needs to be changed to reflect the new economic realities. Other programs are neither large enough nor appropriately targeted to offset the gaps in the present UI system.

Katharine G. Abraham and Susan N. Houseman address a problem that is caused by a major social success; more of us are living longer, healthier lives. The challenge is how to maintain living standards during these "golden years." One response to this need to make savings and income last longer is for older workers to stay in, or return to, the labor market for more years than they perhaps had hoped.

Less certain pension and health care coverage from employers, and changes to Social Security and Medicare, both favor a trend by Americans to work more hours and retire later. However, this pressure runs up against the existence of impediments to older worker employment, on both the supply and demand sides. Funding for employment and training programs targeted on older workers is substantially below levels of a decade ago in real terms, without taking into account the increased universe of eligibility. Program implementation can be sharpened to better meet the needs of older workers but issues such as health insurance, which may act as a disincentive to employers for hiring older workers, also have to be addressed in a broader context.

As these authors individually and collectively realize, there is no one-size-fits-all solution to lowering the barriers to good jobs faced by people in various situations. The policy proposals they suggest range from incremental changes in program performance standards to a comprehensive reworking of our health care financing system. But they do all have the common goal of working toward a more equitable society, for which the authors should be applauded.
—Stephen E. Baldwin
Economist
Bethesda, MD

# NOTE: Many of the statistics in the following pages were subsequently revised. These pages have not been updated to reflect the revisions. 

To obtain BLS data that reflect all revisions, see http://www.bls.gov/data/home.htm

For the latest set of "Current Labor Statistics," see http://www.bls.gov/opub/mir/curlabst.htm
Notes on current labor statistics ..... 58
Comparative indicators

1. Labor market indicators. ..... 70
2. Annual and quarterly percent changes in compensation, prices, and productivity ..... 71
3. Alternative measures of wages and compensation changes. ..... 71
Labor force data
4. Employment status of the population, seasonally adjusted ..... 72
5. Selected employment indicators, seasonally adjusted ..... 73
6. Selected unemployment indicators, seasonally adjusted ... ..... 74
7. Duration of unemployment, seasonally adjusted ..... 74
8. Unemployed persons by reason for unemployment, seasonally adjusted ..... 75
9. Unemployment rates by sex and age, seasonally adjusted ..... 75
10. Unemployment rates by State, seasonally adjusted ..... 76
11. Employment of workers by State, seasonally adjusted. ..... 76
12. Employment of workers by industry, seasonally adjusted ..... 77
13. Average weekly hours by industry, seasonally adjusted. ..... 80
14. Average hourly earnings by industry, seasonally adjusted ..... 81
15. Average hourly earnings by industry. ..... 82
16. Average weekly earnings by industry ..... 83
17. Diffusion indexes of employment change, seasonally adjusted ..... 84
18. Job openings levels and rates, by industry and regions, seasonally adjusted. ..... 85
19. Hires levels and rates by industry and region, seasonally adjusted. ..... 85
20. Separations levels and rates by industry and region, seasonally adjusted. ..... 86
21. Quits levels and rates by industry and region, seasonally adjusted ..... 86
22. Quarterly Census of Employment and Wages, 10 largest counties ..... 87
23. Quarterly Census of Employment and Wages, by State .. ..... 89
24. Annual data: Quarterly Census of Employment and Wages, by ownership. ..... 90
25. Annual data: Quarterly Census of Employment and Wages, establishment size and employment, by supersector...... 9
26. Annual data: Quarterly Census of Employment and Wages, by metropolitan area ..... 92
27. Annual data: Employment status of the population. ..... 97
28. Annual data: Employment levels by industry ..... 97
29. Annual data: Average hours and earnings level, by industry ..... 98

## Labor compensation and collective bargaining data

30. Employment Cost Index, compensation ..... 99
31. Employment Cost Index, wages and salaries ..... 101
32. Employment Cost Index, benefits, private industry ..... 103
33. Employment Cost Index, private industry workers, by bargaining status, and region. ..... 104
34. National Compensation Survey, retirement benefits, private industry ..... 105
35. National Compensation Survey, health insurance, private industry ..... 108
36. National Compensation Survey, selected benefits, private industry ..... 110
37. Work stoppages involving 1,000 workers or more ..... 110
Price data
38. Consumer Price Index: U.S. city average, by expenditure category and commodity and service groups. ..... 111
39. Consumer Price Index: U.S. city average and local data, all items ..... 114
40. Annual data: Consumer Price Index, all items and major groups ..... 115
41. Producer Price Indexes by stage of processing ..... 116
42. Producer Price Indexes for the net output of major industry groups ..... 117
43. Annual data: Producer Price Indexes by stage of processing ..... 118
44. U.S. export price indexes by end-use category. ..... 118
45. U.S. import price indexes by end-use category. ..... 119
46. U.S. international price indexes for selected categories of services ..... 119
Productivity data
47. Indexes of productivity, hourly compensation, and unit costs, data seasonally adjusted ..... 120
48. Annual indexes of multifactor productivity. ..... 121
49. Annual indexes of productivity, hourly compensation, unit costs, and prices ..... 122
50. Annual indexes of output per hour for select industries. ..... 123
International comparisons data
51. Unemployment rates in 10 countries, seasonally adjusted ..... 127
52. Annual data: Employment status of the civilian working-age population, 10 countries ..... 128
53. Annual indexes of productivity and related measures, 16 economies ..... 129
Injury and IIIness data
54. Annual data: Occupational injury and illness. ..... 131
55. Fatal occupational injuries by event or exposure ..... 133

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; labor compensation; 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 current and past experiences. When new seasonal factors are computed each year, revisions may affect seasonally adjusted data for several preceding years.

Seasonally adjusted data appear in tables $1-14,17-21,48$, and 52 . Seasonally adjusted labor force data in tables 1 and 4-9 and seasonally adjusted establishment survey data shown in tables $1,12-14$, and 17 are revised in the March 2007 Review. A brief explanation of the seasonal adjustment methodology appears in "Notes on the data."

Revisions in the productivity data in table 54 are usually introduced in the September issue. Seasonally adjusted indexes and percent changes from month-to-month and 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 AllItems CPI. Only seasonally adjusted percent changes are available for this series.

Adjustments for price changes. Some data-such as the "real" earnings shown in table 14-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 $1982=100$, the hourly rate expressed in 1982 dollars is $\$ 2(\$ 3 / 150$ $\mathrm{x} 100=\$ 2$ ). The $\$ 2$ (or any other resulting
values) are described as "real," "constant," or "1982" dollars.

## Sources of information

Data that supplement the tables in this section are published by the Bureau in a variety of sources. 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, Bulletin 2490. Users also may wish to consult Major Programs of the Bureau of Labor Statistics, Report 919. News releases provide the latest statistical information published by the Bureau; the major recurring releases are published according to the schedule appearing on the back cover of this issue.

More information about labor force, employment, and unemployment data and the household and establishment surveys underlying the data are available in the Bureau's monthly publication, Employment and Earnings. Historical unadjusted and seasonally adjusted data from the household survey are available on the Internet:

## www.bls.gov/cps/

Historically comparable unadjusted and seasonally adjusted data from the establishment survey also are available on the Internet:

## www.bls.gov/ces/

Additional information on labor force data for areas below the national level are provided in the BLS annual report, Geographic Profile of Employment and Unemployment.

For a comprehensive discussion of the Employment Cost Index, see Employment Cost Indexes and Levels, 1975-95, BLS Bulletin 2466. The most recent data from the Employee Benefits Survey appear in the following Bureau of Labor Statistics bulletins: Employee Benefits in Medium and Large Firms; Employee Benefits in Small Private Establishments; and Employee Benefits in State and Local Governments.

More detailed data on consumer and producer prices are published in the monthly periodicals, The CPI Detailed Report and Producer Price Indexes. For an overview of the 1998 revision of the CPI, see the December 1996 issue of the Monthly Labor Review. Additional data on international prices appear in monthly news releases.

Listings of industries for which productivity indexes are available may be found on the Internet:

## www.bls.gov/lpc/

For additional information on international comparisons data, see Interna-
tional Comparisons of Unemployment, Bulletin 1979.

Detailed data on the occupational injury and illness series are published in Occupational Injuries and Illnesses in the United States, by Industry, a BLS annual bulletin.

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

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

## 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-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 nonfarm 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; overall prices by stage of processing; and overall export and import price indexes are given. Measures of productivity (output per hour of all persons) are provided for major sectors.

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.

## Employment and Unemployment Data

(Tables 1; 4-29)

## 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 60,000 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 those who worked for pay any time during the week which includes the 12th 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. 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 are also counted among the unemployed. The unemployment rate represents the number unemployed as a percent of the civilian labor force.

The civilian labor force consists of all employed or unemployed persons in the civilian noninstitutional population. Persons not in the labor force are those not classified as employed or unemployed. This group includes discouraged workers, defined as persons who want and are available for a job and who have looked for work sometime in the past 12 months (or since the end of their last job if they held one within the past 12 months), but are not currently looking, because they believe there are no jobs available or there are none for which they would qualify. The civilian 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. The civilian labor force participation rate is the proportion of the civilian noninstitutional population that is in the labor force. The employment-population ratio is employment as a percent of the civilian 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 intercensal years. These adjustments affect the comparability of historical data. A description of these adjustments and their effect on the various data series appears in the Explanatory Notes of Employment and Earnings. For a discussion of changes introduced in January 2003, see "Revisions to the Current Population Survey Effective in January 2003" in the February 2003 issue of Employment and Earnings (available on the BLS Web site at www.bls.gov/cps/rvcps03.pdf).

Effective in January 2003, BLS began using the X-12 ARIMA seasonal adjustment program to seasonally adjust national labor force data. This program replaced the X-11 ARIMA program which had been used since January 1980. See "Revision of Seasonally Adjusted Labor Force Series in 2003," in the February 2003 issue of Employment and Earnings (available on the BLS Web site at www.bls.gov/cps/cpsrs.pdf) for a discussion of the introduction of the use of X-12 ARIMA for seasonal adjustment of the labor force data and the effects that it had on the data.

At the beginning of each calendar year, historical seasonally adjusted data usually are revised, and projected seasonal adjustment factors are calculated for use during the

January-June period. The historical seasonally adjusted data usually are revised for only the most recent 5 years. In July, new seasonal adjustment factors, which incorporate the experience through June, are produced for the July-December period, but no revisions are made in the historical data.

FOR ADDITIONAL INFORMATION on national household survey data, contact the Division of Labor Force Statistics: (202) 691-6378.

## 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 about 160,000 businesses and government agencies, which represent approximately 400,000 individual worksites and represent all industries except agriculture. The active CES sample covers approximately one-third of all nonfarm payroll workers. Industries are classified in accordance with the 2002 North American Industry Classification System. 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 12th day 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 the goods-producing industries cover employees, up through the level of working supervisors, who engage directly in the manufacture or construction of the establishment's product. In private ser-vice-providing industries, data are collected for nonsupervisory workers, which include most employees except those in executive,
managerial, and supervisory positions. Those workers mentioned in tables 11-16 include production workers in manufacturing and natural resources and mining; construction workers in construction; and nonsupervisory workers in all private service-providing industries. Production and nonsupervisory workers account for about four-fifths of the total employment on private nonagricultural 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).

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 average weekly hours which was in excess of regular hours and for which overtime premiums were paid.

The Diffusion Index represents the percent of industries in which employment was rising over the indicated period, plus one-half of the industries with unchanged employment; 50 percent indicates an equal balance between industries with increasing and decreasing employment. 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. Table 17 provides an index on private nonfarm employment based on 278 industries, and a manufacturing index based on 84 industries. These indexes are useful for measuring the dispersion of economic gains or losses and are also economic indicators.

## Notes on the data

Establishment survey data are annually adjusted to comprehensive counts of employment (called "benchmarks"). The March 2003 benchmark was introduced in February 2004 with the release of data for January 2004, published in the March 2004 issue of the Review. With the release in June 2003, CES completed a conversion from the Standard Industrial Classification (SIC) system to the North American Industry Classification System (NAICS) and completed the transition from its original quota sample design to a probability-based sample design. The indus-try-coding update included reconstruction of historical estimates in order to preserve
time series for data users. Normally 5 years of seasonally adjusted data are revised with each benchmark revision. However, with this release, the entire new time series history for all CES data series were re-seasonally adjusted due to the NAICS conversion, which resulted in the revision of all CES time series.

Also in June 2003, the CES program introduced concurrent seasonal adjustment for the national establishment data. Under this methodology, the first preliminary estimates for the current reference month and the revised estimates for the 2 prior months will be updated with concurrent factors with each new release of data. Concurrent seasonal adjustment incorporates all available data, including first preliminary estimates for the most current month, in the adjustment process. For additional information on all of the changes introduced in June 2003, see the June 2003 issue of Employment and Earnings and "Recent changes in the national Current Employment Statistics survey," Monthly Labor Review, June 2003, pp. 3-13.

Revisions in State data (table 11) occurred with the publication of January 2003 data. For information on the revisions for the State data, see the March and May 2003 issues of Employment and Earnings, and "Recent changes in the State and Metropolitan Area CES survey," Monthly Labor Review, June 2003, pp. 14-19.

Beginning in June 1996, the BLS uses the X-12-ARIMA methodology to seasonally adjust establishment survey data. This procedure, developed by the Bureau of the Census, controls for the effect of varying survey intervals (also known as the 4 - versus 5 -week effect), thereby providing improved measurement of over-the-month changes and underlying economic trends. Revisions of data, usually for the most recent 5-year period, are made once a year coincident with the benchmark revisions.

In the establishment survey, estimates for the most recent 2 months are based on incomplete returns and are published as preliminary in the tables (12-17 in the Review). When all returns have been received, the estimates are revised and published as "final" (prior to any benchmark revisions) in the third month of their appearance. Thus, December data are published as preliminary in January and February and as final in March. For the same reasons, quarterly establishment data (table 1) are preliminary for the first 2 months of publication and final in the third month. Fourth-quarter data are published as preliminary in January and February and as final in March.

FOR ADDITIONAL INFORMATION on
establishment survey data, contact the Division of Current Employment Statistics: (202) 691-6555.

## Unemployment data by State

## Description of the series

Data presented in this section are obtained from 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. Seasonally adjusted unemployment rates are presented in table 10. 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 all States and the District of Columbia are derived using standardized procedures established by BLS. Once a year, estimates are revised to new population controls, usually with publication of January estimates, and benchmarked to annual average CPS levels.

FOR ADDITIONAL INFORMATION on data in this series, call (202) 691-6392 (table 10) or (202) 691-6559 (table 11).

## Quarterly Census of Employment and Wages

## Description of the series

Employment, wage, and establishment data in this section are derived from the quarterly tax reports submitted to State employment security agencies by private and State and local government employers subject to State unemployment insurance (UI) laws and from Federal, agencies subject to the Unemployment Compensation for Federal Employees (ucfe) program. Each quarter, State agencies edit and process the data and send the information to the Bureau of Labor Statistics.

The Quarterly Census of Employment and Wages (QCEW) data, also referred as ES202 data, are the most complete enumeration of employment and wage information by industry at the national, State, metropolitan area, and county levels. They have broad economic significance in evaluating labor
market trends and major industry developments.

## Definitions

In general, the Quarterly Census of Employment and Wages monthly employment data represent the number of covered workers who worked during, or received pay for, the pay period that included the 12 th day of the month. Covered private industry employment includes most corporate officials, executives, supervisory personnel, professionals, clerical workers, wage earners, piece workers, and part-time workers. It excludes proprietors, the unincorporated self-employed, unpaid family members, and certain farm and domestic workers. Certain types of nonprofit employers, such as religious organizations, are given a choice of coverage or exclusion in a number of States. Workers in these organizations are, therefore, reported to a limited degree.

Persons on paid sick leave, paid holiday, paid vacation, and the like, are included. Persons on the payroll of more than one firm during the period are counted by each uI-subject employer if they meet the employment definition noted earlier. The employment count excludes workers who earned no wages during the entire applicable pay period because of work stoppages, temporary layoffs, illness, or unpaid vacations.

Federal employment data are based on reports of monthly employment and quarterly wages submitted each quarter to State agencies for all Federal installations with employees covered by the Unemployment Compensation for Federal Employees (UCFE) program, except for certain national security agencies, which are omitted for security reasons. Employment for all Federal agencies for any given month is based on the number of persons who worked during or received pay for the pay period that included the 12th of the month.

An establishment is an economic unit, such as a farm, mine, factory, or store, that produces goods or provides services. It is typically at a single physical location and engaged in one, or predominantly one, type of economic activity for which a single industrial classification may be applied. Occasionally, a single physical location encompasses two or more distinct and significant activities. Each activity should be reported as a separate establishment if separate records are kept and the various activities are classified under different NAICS industries.

Most employers have only one establishment; thus, the establishment is the predominant reporting unit or statistical
entity for reporting employment and wages data. Most employers, including State and local governments who operate more than one establishment in a State, file a Multiple Worksite Report each quarter, in addition to their quarterly ur report. The Multiple Worksite Report is used to collect separate employment and wage data for each of the employer's establishments, which are not detailed on the uI report. Some very small multi-establishment employers do not file a Multiple Worksite Report. When the total employment in an employer's secondary establishments (all establishments other than the largest) is 10 or fewer, the employer generally will file a consolidated report for all establishments. Also, some employers either cannot or will not report at the establishment level and thus aggregate establishments into one consolidated unit, or possibly several units, though not at the establishment level.

For the Federal Government, the reporting unit is the installation: a single location at which a department, agency, or other government body has civilian employees. Federal agencies follow slightly different criteria than do private employers when breaking down their reports by installation. They are permitted to combine as a single statewide unit: 1) all installations with 10 or fewer workers, and 2) all installations that have a combined total in the State of fewer than 50 workers. Also, when there are fewer than 25 workers in all secondary installations in a State, the secondary installations may be combined and reported with the major installation. Last, if a Federal agency has fewer than five employees in a State, the agency headquarters office (regional office, district office) serving each State may consolidate the employment and wages data for that State with the data reported to the State in which the headquarters is located. As a result of these reporting rules, the number of reporting units is always larger than the number of employers (or government agencies) but smaller than the number of actual establishments (or installations).

Data reported for the first quarter are tabulated into size categories ranging from worksites of very small size to those with 1,000 employees or more. The size category is determined by the establishment's March employment level.It is important to note that each establishment of a multi-establishment firm is tabulated separately into the appropriate size category. The total employment level of the reporting multi-establishment firm is not used in the size tabulation.

Covered employers in most States report total wages paid during the calendar quarter, regardless of when the services were performed. A few State laws, however, specify that wages be reported for, or based on the
period during which services are performed rather than the period during which compensation is paid. Under most State laws or regulations, wages include bonuses, stock options, the cash value of meals and lodging, tips and other gratuities, and, in some States, employer contributions to certain deferred compensation plans such as $401(\mathrm{k})$ plans.

Covered employer contributions for old-age, survivors, and disability insurance (OASDI), health insurance, unemployment insurance, workers' compensation, and private pension and welfare funds are not reported as wages. Employee contributions for the same purposes, however, as well as money withheld for income taxes, union dues, and so forth, are reported even though they are deducted from the worker's gross pay.

Wages of covered Federal workers represent the gross amount of all payrolls for all pay periods ending within the quarter. This includes cash allowances, the cash equivalent of any type of remuneration, severance pay, withholding taxes, and retirement deductions. Federal employee remuneration generally covers the same types of services as for workers in private industry.

Average annual wage per employee for any given industry are computed by dividing total annual wages by annual average employment. A further division by 52 yields average weekly wages per employee. Annual pay data only approximate annual earnings because an individual may not be employed by the same employer all year or may work for more than one employer at a time.

Average weekly or annual wage is affected by the ratio of full-time to part-time workers as well as the number of individuals in high-paying and low-paying occupations. When average pay levels between States and industries are compared, these factors should be taken into consideration. For example, industries characterized by high proportions of part-time workers will show average wage levels appreciably less than the weekly pay levels of regular full-time employees in these industries. The opposite effect characterizes industries with low proportions of part-time workers, or industries that typically schedule heavy weekend and overtime work. Average wage data also may be influenced by work stoppages, labor turnover rates, retroactive payments, seasonal factors, bonus payments, and so on.

## Notes on the data

Beginning with the release of data for 2001, publications presenting data from the Covered Employment and Wages program have switched to the 2002 version of the North

American Industry Classification System (NAICS) as the basis for the assignment and tabulation of economic data by industry. NAICS is the product of a cooperative effort on the part of the statistical agencies of the United States, Canada, and Mexico. Due to difference in NAICS and Standard Industrial Classification (SIC) structures, industry data for 2001 is not comparable to the SIC-based data for earlier years.

Effective January 2001, the program began assigning Indian Tribal Councils and related establishments to local government ownership. This BLS action was in response to a change in Federal law dealing with the way Indian Tribes are treated under the Federal Unemployment Tax Act. This law requires federally recognized Indian Tribes to be treated similarly to State and local governments. In the past, the Covered Employment and Wage (CEW) program coded Indian Tribal Councils and related establishments in the private sector. As a result of the new law, CEW data reflects significant shifts in employment and wages between the private sector and local government from 2000 to 2001. Data also reflect industry changes. Those accounts previously assigned to civic and social organizations were assigned to tribal governments. There were no required industry changes for related establishments owned by these Tribal Councils. These tribal business establishments continued to be coded according to the economic activity of that entity.

To insure the highest possible quality of data, State employment security agencies verify with employers and update, if necessary, the industry, location, and ownership classification of all establishments on a 3-year cycle. Changes in establishment classification codes resulting from the verification process are introduced with the data reported for the first quarter of the year. Changes resulting from improved employer reporting also are introduced in the first quarter. For these reasons, some data, especially at more detailed geographic levels, may not be strictly comparable with earlier years.

County definitions are assigned according to Federal Information Processing Standards Publications as issued by the National Institute of Standards and Technology. Areas shown as counties include those designated as independent cities in some jurisdictions and, in Alaska, those areas designated by the Census Bureau where counties have not been created. County data also are presented for the New England States for comparative purposes, even though townships are the more common designation used in New England (and New Jersey).

The Office of Management and Budget
(OMB) defines metropolitan areas for use in Federal statistical activities and updates these definitions as needed. Data in this table use metropolitan area criteria established by OMB in definitions issued June 30, 1999 (OMB Bulletin No. 99-04). These definitions reflect information obtained from the 1990 Decennial Census and the 1998 U.S. Census Bureau population estimate. A complete list of metropolitan area definitions is available from the National Technical Information Service (NTIS), Document Sales, 5205 Port Royal Road, Springfield, Va. 22161, telephone 1-800-553-6847.

OMB defines metropolitan areas in terms of entire counties, except in the six New England States where they are defined in terms of cities and towns. New England data in this table, however, are based on a county concept defined by OMB as New England County Metropolitan Areas (NECMA) because coun-ty-level data are the most detailed available from the Quarterly Census of Employment and Wages. The NECMA is a county-based alternative to the city- and town-based metropolitan areas in New England. The NECMA for a Metropolitan Statistical Area (MSA) include: (1) the county containing the first-named city in that MSA title (this county may include the first-named cities of other MSA, and (2) each additional county having at least half its population in the MSA in which first-named cities are in the county identified in step 1. The NECMA is officially defined areas that are meant to be used by statistical programs that cannot use the regular metropolitan area definitions in New England.

For additional information on the covered employment and wage data, contact the Division of Administrative Statistics and Labor Turnover at (202) 691-6567.

## Job Openings and Labor Turnover Survey

## Description of the series

## Data for the Job Openings and Labor

 Turnover Survey (JOLTS) are collected and compiled from a sample of 16,000 business establishments. Each month, data are collected for total employment, job openings, hires, quits, layoffs and discharges, and other separations. The JOLTS program covers all private nonfarm establishments such as factories, offices, and stores, as well as Federal, State, and local government entities in the 50 States and the District of Columbia. The JOLTS sample design is a random sample drawn from a universe of more than eight million establishments compiled as part of theoperations of the Quarterly Census of Employment and Wages, or QCEW, program. This program includes all employers subject to State unemployment insurance (UI) laws and Federal agencies subject to Unemployment Compensation for Federal Employees (UCFE).

The sampling frame is stratified by ownership, region, industry sector, and size class. Large firms fall into the sample with virtual certainty. JolTs total employment estimates are controlled to the employment estimates of the Current Employment Statistics (CES) survey. A ratio of CES to JOLTS employment is used to adjust the levels for all other JolTs data elements. Rates then are computed from the adjusted levels.

The monthly JOLTS data series begin with December 2000. Not seasonally adjusted data on job openings, hires, total separations, quits, layoffs and discharges, and other separations levels and rates are available for the total nonfarm sector, 16 private industry divisions and 2 government divisions based on the North American Industry Classification System (NAICS), and four geographic regions. Seasonally adjusted data on job openings, hires, total separations, and quits levels and rates are available for the total nonfarm sector, selected industry sectors, and four geographic regions.

## Definitions

Establishments submit job openings in-for-mation for the last business day of the reference month. A job opening requires that (1) a specific position exists and there is work available for that position; and (2) work could start within 30 days regardless of whether a suitable candidate is found; and (3) the employer is actively recruiting from outside the establishment to fill the position. Included are full-time, part-time, permanent, short-term, and seasonal openings. Active recruiting means that the establishment is taking steps to fill a position by advertising in newspapers or on the Internet, posting help-wanted signs, accepting applications, or using other similar methods.

Jobs to be filled only by internal transfers, promotions, demotions, or recall from layoffs are excluded. Also excluded are jobs with start dates more than 30 days in the future, jobs for which employees have been hired but have not yet reported for work, and jobs to be filled by employees of temporary help agencies, employee leasing companies, outside contractors, or consultants. The job openings rate is computed by dividing the number of job openings by the sum of employment and job openings, and multiplying that quotient by 100 .

Hires are the total number of additions to the payroll occurring at any time during the reference month, including both new and rehired employees and full-time and parttime, permanent, short-term and seasonal employees, employees recalled to the location after a layoff lasting more than 7 days, on-call or intermittent employees who returned to work after having been formally separated, and transfers from other locations. The hires count does not include transfers or promotions within the reporting site, employees returning from strike, employees of temporary help agencies or employee leasing companies, outside contractors, or consultants. The hires rate is computed by dividing the number of hires by employment, and multiplying that quotient by 100 .

Separations are the total number of terminations of employment occurring at any time during the reference month, and are reported by type of separation-quits, layoffs and discharges, and other separations. Quits are voluntary separations by employees (except for retirements, which are reported as other separations). Layoffs and discharges are involuntary separations initiated by the employer and include layoffs with no intent to rehire, formal layoffs lasting or expected to last more than 7 days, discharges resulting from mergers, downsizing, or closings, firings or other discharges for cause, terminations of permanent or short-term employees, and terminations of seasonal employees. Other separations include retirements, transfers to other locations, deaths, and separations due to disability. Separations do not include transfers within the same location or employees on strike.

The separations rate is computed by dividing the number of separations by employment, and multiplying that quotient by 100 . The quits, layoffs and discharges, and other separations rates are computed similarly, dividing the number by employment and multiplying by 100 .

## Notes on the data

The JOLTS data series on job openings, hires, and separations are relatively new. The full sample is divided into panels, with one panel enrolled each month. A full complement of panels for the original data series based on the 1987 Standard Industrial Classification (SIC) system was not completely enrolled in the survey until January 2002. The supple-mental panels of establishments needed to create NAICS estimates were not completely enrolled until May 2003. The data collected up until
those points are from less than a full sample Therefore, estimates from earlier months should be used with caution, as fewer sampled units were reporting data at that time.

In March 2002, BLS procedures for collecting hires and separations data were revised to address possible underreporting. As a result, JOLTS hires and separations estimates for months prior to March 2002 may not be comparable with estimates for March 2002 and later.

The Federal Government reorganization that involved transferring approximately 180,000 employees to the new Department of Homeland Security is not reflected in the JOLTS hires and separations estimates for the Federal Government. The Office of Personnel Management's record shows these transfers were completed in March 2003. The inclusion of transfers in the JOLTS definitions of hires and separations is intended to cover ongoing movements of workers between establishments. The Department of Homeland Security reorganization was a massive one-time event, and the inclusion of these intergovernmental transfers would distort the Federal Government time series.

Data users should note that seasonal adjustment of the JOLTS series is conducted with fewer data observations than is customary. The historical data, therefore, may be subject to larger than normal revisions. Because the seasonal patterns in economic data series typically emerge over time, the standard use of moving averages as seasonal filters to capture these effects requires longer series than are currently available. As a result, the stable seasonal filter option is used in the seasonal adjustment of the Jolts data. When calculating seasonal factors, this filter takes an average for each calendar month after detrending the series. The stable seasonal filter assumes that the seasonal factors are fixed; a necessary assumption until sufficient data are available. When the stable seasonal filter is no longer needed, other program features also may be introduced, such as outlier adjustment and extended diagnostic testing. Additionally, it is expected that more series, such as layoffs and discharges and additional industries, may be seasonally adjusted when more data are available.

JolTs hires and separations estimates cannot be used to exactly explain net changes in payroll employment. Some reasons why it is problematic to compare changes in payroll employment with JOLTS hires and separations, especially on a monthly basis, are: (1) the reference period for payroll employment is the pay period including the 12th of the month, while the reference period for hires and separations is the calendar month; and
(2) payroll employment can vary from month to month simply because part-time and oncall workers may not always work during the pay period that includes the 12th of the month. Additionally, research has found that some reporters systematically underreport separations relative to hires due to a number of factors, including the nature of their payroll systems and practices. The shortfall appears to be about 2 percent or less over a 12-month period.

FOR ADDITIONAL INFORMATION on the Job Openings and Labor Turnover Survey, contact the Division of Administrative Statistics and Labor Turnover at (202) 961-5870.

## Compensation and Wage Data

(Tables 1-3; 30-37)
The National Compensation Survey (NCS) produces a variety of compensation data. These include: The Employment Cost Index (ECI) and NCS benefit measures of the incidence and provisions of selected employee benefit plans. Selected samples of these measures appear in the following tables. NCS also compiles data on occupational wages and the Employer Costs for Employee Compensation (ECEC).

## 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 is a Laspeyres Index that uses fixed employment weights to measure change in labor costs free from the influence of employment shifts among occupations and industries.

The ECI provides data for the civilian economy, which includes the total private nonfarm economy excluding private households, and the public sector excluding the Federal government. Data are collected each quarter for the pay period including the 12th day of March, June, September, and December.

Sample establishments are classified by industry categories based on the 2002 North American Classification System (NAICS). Within a sample establishment, specific job categories are selected and classified into about 800 occupations according to the 2000 Standard Occupational Classification (SOC) System. Individual occupations are com-
bined to represent one of ten intermediate aggregations, such as professional and related occupations, or one of five higher level aggregations, such as management, professional, and related occupations.

Fixed employment weights are used each quarter to calculate the most aggregate series-civilian, private, and State and local government. These fixed weights are also used to derive all of the industry and occupational series indexes. Beginning with the March 2006 estimates, 2002 fixed employment weights from the Bureau's Occupational Employment Statistics survey were introduced. From March 1995 to December 2005, 1990 employment counts were used. These fixed weights 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 series based on bargaining status, census region and division, and metropolitan area status, fixed employment data are not available. The employment weights are reallocated within these series each quarter based on the current ECI sample. The indexes for these series, consequently, are not strictly comparable with those for aggregate, occupational, and industry 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-of-living 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 ECI data in these tables reflect the con-version to the 2002 North American Industry Classification System (NAICS) and the 2000 Standard Occupational Classification (SOC) system. The NAICS and SOC data shown prior to 2006 are for informational purposes only. ECI series based on NAICS and SOC became the official BLS estimates starting in March 2006.

The ECI for changes in wages and salaries
in the private nonfarm economy was published beginning in 1975. Changes in total compensation cost-wages and salaries and benefits combined-were published beginning in 1980. The series of changes in wages and salaries and for total compensation in the State and local government sector and in the civilian nonfarm economy (excluding Federal employees) were published beginning in 1981. Historical indexes (December $2005=100$ ) are available on the Internet: www.bls.gov/ect/

ADDITIONAL INFORMATION on the Employment Cost Index is available at www. bls.gov/ncs/ect/home.htm or by telephone at (202) 691-6199.

## National Compensation Survey Benefit Measures

## Description of the series

NCS benefit measures of employee benefits are published in two separate reports. The annual summary provides data on the incidence of (access to and participation in) selected benefits and provisions of paid holidays and vacations, life insurance plans, and other selected benefit programs. Data on percentages of establishments offering major employee benefits, and on the employer and employee shares of contributions to medical care premiums also are presented. Selected benefit data appear in the following tables. A second publication, published later, contains more detailed information about health and retirement plans.

## Definitions

Employer-provided benefits are benefits that are financed either wholly or partly by the employer. They may be sponsored by a union or other third party, as long as there is some employer financing. However, some benefits that are fully paid for by the employee also are included. For example, long-term care insurance paid entirely by the employee are included because the guarantee of insurability and availability at group premium rates are considered a benefit.

Employees are considered as having access to a benefit plan if it is available for their use. For example, if an employee is permitted to participate in a medical care plan offered by the employer, but the employee declines to do so, he or she is placed in the category with those having access to medical care.

Employees in contributory plans are considered as participating in an insurance or retirement plan if they have paid required
contributions and fulfilled any applicable service requirement. Employees in noncontributory plans are counted as participating regardless of whether they have fulfilled the service requirements.

Defined benefit pension plans use predetermined formulas to calculate a retirement benefit (if any), and obligate the employer to provide those benefits. Benefits are generally based on salary, years of service, or both.

Defined contribution plans generally specify the level of employer and employee contributions to a plan, but not the formula for determining eventual benefits. Instead, individual accounts are set up for participants, and benefits are based on amounts credited to these accounts.

Tax-deferred savings plans are a type of defined contribution plan that allow participants to contribute a portion of their salary to an employer-sponsored plan and defer income taxes until withdrawal.

Flexible benefit plans allow employees to choose among several benefits, such as life insurance, medical care, and vacation days, and among several levels of coverage within a given benefit.

## Notes on the data

ADDITIONAL INFORMATION ON THE NCS benefit measures is available at www.bls. gov/ncs/ebs/home.htm or by telephone at (202) 691-6199.

## 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 work time lost because of stoppage. These data are presented in table 37.

Data are largely from a variety of published sources 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 INFORMATION on work stop-pages data is available at www. bls. gov/cba/home.htm or by telephone at (202) 691-6199.

## Price Data

(Tables 2; 38-46)
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 pe-riod-December 2003 = 100 for many Producer Price Indexes (unless otherwise noted), 1982-84 = 100 for many Consumer Price Indexes (unless otherwise noted), and 1990 $=100$ for International Price Indexes.

## 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 half-century 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 1993-95 buying habits of about 87 percent of the noninstitutional population of the United States at that time, compared with 32 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, shortterm 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 23,000 retail establishments and 5,800 housing units in 87 urban areas across the country are used to develop the "U.S.city average." Separate estimates for 14 major urban centers are presented in table 39. 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 meaured 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. An updated CPI-U and CPI-W were introduced with release of the January 1987 and January 1998 data.

FOR ADDITIONAL INFORMATION, contact the Division of Prices and Price Indexes: (202) 691-7000.

## Producer Price Indexes

## Description of the series

Producer Price Indexes (PPI) measure average changes in prices received by domestic producers of commodities in all stages of processing. The sample used for calculating these indexes currently contains about 3,200 commodities and about 80,000 quotations per month, selected to represent the movement of prices of all commodities produced in the manufacturing; agriculture, forestry, and fishing; mining; and gas and electricity and public utilities sectors. The stage-of-processing structure of PPI 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. The industry and product structure of PPI organizes data in
accordance with the 2002 North American Industry Classification System and product codes developed by the U.S. Census Bureau.

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 1992, 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 1987.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.

FOR ADDITIONAL INFORMATION, contact the Division of Industrial Prices and Price Indexes: (202) 691-7705.

## International Price Indexes

## Description of the series

The International Price Program produces monthly and quarterly export and import price indexes for nonmilitary goods and services 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.

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 primarily 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 week of the month. 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 according to the five-digit level of detail for the Bureau of Economic Analysis End-use Classification, the three-digit level for the Standard International Trade Classification (SITC), and the four-digit level of detail for the Harmonized System. Aggregate import indexes by country or region of origin are also available.

BLS publishes indexes for selected categories of internationally traded services, calculated on an international basis and on a balance-of-payments basis.

## Notes on the data

The export and import price indexes are weighted indexes of the Laspeyres type. The trade weights currently used to compute both indexes relate to 2000 .

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 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 ADDITIONAL INFORMATION, contact the Division of International Prices: (202) 691-7155.

## Productivity Data

(Tables 2; 47-50)

## Business and major sectors

## Description of the series

The productivity measures relate real output to real input. As such, they encompass a fam-
ily of measures which include single-factor input measures, such as output per hour, output per unit of labor input, or output per unit of capital input, as well as measures of multifactor productivity (output per unit of combined labor and capital inputs). 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 quantity of goods and services produced per hour of labor input. Output per unit of capital services (capital productivity) is the quantity of goods and services produced per unit of capital services input. Multifactor productivity is the quantity of goods and services produced per combined inputs. For private business and private nonfarm business, inputs include labor and capital units. For manufacturing, inputs include labor, capital, energy, nonenergy materials, and purchased business services.

Compensation per hour is total compensation divided by hours at work. Total compensation equals the wages and salaries of employees plus employers'contributions for social insurance and private benefit plans, plus an estimate of these payments for the self-employed (except for nonfinancial corporations in which there are no self-employed). 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 with inventory valuation and capital consumption adjustments per unit of output.

Hours of all persons are the total hours at work of payroll workers, self-employed persons, and unpaid family workers.

Labor inputs are hours of all persons adjusted for the effects of changes in the
education and experience of the labor force.
Capital services are 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.

Combined units of labor and capital inputs are derived by combining changes in labor and capital input with weights which represent each component's share of total cost. Combined units of labor, capital, energy, materials, and purchased business services are similarly derived by combining changes in each input with weights that represent each input's share of total costs. The indexes for each input and for combined units 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

Business sector output is an annually-weighted index constructed by excluding from real gross domestic product (GDP) the following outputs: general government, nonprofit institutions, paid employees of private households, and the rental value of owner-occupied dwellings. Nonfarm business also excludes farming. Private business and private nonfarm business further exclude government enterprises. The measures are supplied by the U.S. Department of Commerce's Bureau of Economic Analysis. Annual estimates of manufacturing sectoral output are produced by the Bureau of Labor Statistics. Quarterly manufacturing output indexes from the Federal Reserve Board are adjusted to these annual output measures by the BLS. Compensation data are developed from data of the Bureau of Economic Analysis and the Bureau of Labor Statistics. Hours data are developed from data of the Bureau of Labor Statistics.

The productivity and associated cost measures in tables 47-50 describe the relationship between output in real terms and the labor and capital inputs 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; shifts in the composition of the labor force; capital investment; level of output; changes in the utilization of capacity, energy, material, and research and development; the organi-
zation of production; managerial skill; and characteristics and efforts of the work force.

FOR ADDITIONAL INFORMATION on this productivity series, contact the Division of Productivity Research: (202) 691-5606.

## Industry productivity measures

## Description of the series

The BLS industry productivity indexes measure the relationship between output and inputs for selected industries and industry groups, and thus reflect trends in industry efficiency over time. Industry measures include labor productivity, multifactor productivity, compensation, and unit labor costs.

The industry measures differ in methodology and data sources from the productivity measures for the major sectors because the industry measures are developed independently of the National Income and Product Accounts framework used for the major sector measures.

## Definitions

Output per hour is derived by dividing an index of industry output by an index of labor input. For most industries, output indexes are derived from data on the value of industry output adjusted for price change. For the remaining industries, output indexes are derived from data on the physical quantity of production.

The labor input series is based on the hours of all workers or, in the case of some transportation industries, on the number of employees. For most industries, the series consists of the hours of all employees. For some trade and services industries, the series also includes the hours of partners, proprietors, and unpaid family workers.

Unit labor costs represent the labor compensation costs per unit of output produced, and are derived by dividing an index of labor compensation by an index of output. Labor compensation includes payroll as well as supplemental payments, including both legally required expenditures and payments for voluntary programs.

Multifactor productivity is derived by dividing an index of industry output by an index of combined inputs consumed in producing that output. Combined inputs include capital, labor, and intermediate purchases. The measure of capital input represents 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. The measure of intermediate purchases is a combination of purchased materials, services, fuels, and electricity.

## Notes on the data

The industry measures are compiled from data produced by the Bureau of Labor Statistics and the Census Bureau, with additional data supplied by other government agencies, trade associations, and other sources.

FOR ADDITIONAL INFORMATION on this series, contact the Division of Industry Productivity Studies: (202) 691-5618, or visit the Web site at: www.bls.gov/lpc/home.htm

## International Comparisons

(Tables 51-53)

## Labor force and unemployment

## Description of the series

Tables 51 and 52 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 Bureau adjusts the figures for these selected countries, for all known major definitional differences, to the extent that data to prepare adjustments are available. 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. For further information on adjustments and comparability issues, see Constance Sorrentino, "International unemployment rates: how comparable are they?" Monthly Labor Review, June 2000, pp. 3-20, available on the Internet at www. bls.gov/opub/mlr/2000/06/art1full.pdf.

## Definitions

For the principal U.S. definitions of the labor force, employment, and unemployment, see the Notes section on Employment and Unemployment Data: Household survey data.

## Notes on the data

Foreign country data are adjusted as closely as possible to the U.S. definitions. Primary areas of adjustment address conceptual differences in upper age limits and defini-
tions of employment and unemployment, provided that reliable data are available to make these adjustments. Adjustments are made where applicable to include employed and unemployed persons above upper age limits; some European countries do not include persons older than age 64 in their labor force measures, because a large portion of this population has retired. Adjustments are made to exclude active duty military from employment figures, although a small number of career military may be included in some European countries. Adjustments are made to exclude unpaid family workers who worked fewer than 15 hours per week from employment figures; U.S. concepts do not include them in employment, whereas most foreign countries include all unpaid family workers regardless of the number of hours worked. Adjustments are made to include full-time students seeking work and available for work as unemployed when they are classified as not in the labor force.

Where possible, lower age limits are based on the age at which compulsory schooling ends in each country, rather than based on the U.S. standard of 16 . Lower age limits have ranged between 13 and 16 over the years covered; currently, the lower age limits are either 15 or 16 in all 10 countries.

Some adjustments for comparability are not made because data are unavailable for adjustment purposes. For example, no adjustments to unemployment are usually made for deviations from U.S. concepts in the treatment of persons waiting to start a new job or passive jobseekers. These conceptual differences have little impact on the measures. Furthermore, BLS studies have concluded that no adjustments should be made for persons on layoff who are counted as employed in some countries because of their strong job attachment as evidenced by, for example, payment of salary or the existence of a recall date. In the United States, persons on layoff have weaker job attachment and are classified as unemployed.

The annual labor force measures are obtained from monthly, quarterly, or continuous household surveys and may be calculated as averages of monthly or quarterly data. Quarterly and monthly unemployment rates are based on household surveys. For some countries, they are calculated by applying annual adjustment factors to current published data and, therefore, are less precise indicators of unemployment under U.S. concepts than the annual figures. The labor force measures may have breaks in series over time due to changes in surveys, sources, or estimation methods. Breaks are noted in data tables.

For up-to-date information on adjustments and breaks in series, see the Technical

Notes of Comparative Civilian Labor Force Statistics, 10 Countries, on the Internet at www.bls.gov/fls/flscomparelf.htm, and the Notes of Unemployment rates in 10 countries, civilian labor force basis, approximating U.S. concepts, seasonally adjusted, on the Internet at www.bls.gov/fls/flsjec.pdf.

FOR ADDITIONAL INFORMATION on this series, contact the Division of Foreign Labor Statistics: (202) 691-5654 or flshelp@ bls.gov.

## Manufacturing productivity and labor costs

## Description of the series

Table 53 presents comparative indexes of manufacturing output per hour (labor productivity), output, total hours, compensation per hour, and unit labor costs for the United States, Australia, Canada, Japan, the Republic of Korea, Taiwan, and 10 European countries. These measures are trend comparisons-that is, series that measure changes over timerather than level comparisons. BLS does not recommend using these series for level comparisons because of technical problems.

BLS constructs the comparative indexes from three basic aggregate measures-output, total labor hours, and total compensation. The hours and compensation measures refer to employees (wage and salary earners) in Belgium and Taiwan. For all other economies, the measures refer to all employed persons, including employees, self-employed persons, and unpaid family workers.

The data for recent years are based on the United Nations System of National Accounts 1993 (SNA 93). Manufacturing is generally defined according to the International Standard Industrial Classification (ISIC). However, the measures for France include parts of mining as well. For the United States and Canada, it is defined according to the North American Industry Classification System (NAICS 97).

## Definitions

Output. For most economies, the output measures are real value added in manufacturing from national accounts. However, output for Japan prior to 1970 and for the Netherlands prior to 1960 are indexes of industrial production. The manufacturing value added measures for the United Kingdom are essentially identical to their indexes of industrial production.

For United States, the output measure for the manufacturing sector is a chain-weighted
index of real gross product originating (deflated value added) produced by the Bureau of Economic Analysis of the U.S. Department of Commerce. Most of the other economies now also use chain-weighted as opposed to a fixed-year weights that are periodically updated.

To preserve the comparability of the U.S. measures with those of other economies, BLS uses gross product originating in manufacturing for the United States. The gross product originating series differs from the manufacturing output series that BLS publishes in its quarterly news releases on U.S. productivity and costs (and that underlies the measures that appear in tables 48 and 50 in this section). The quarterly measures are on a "sectoral output" basis, rather than a valueadded basis. Sectoral output is gross output less intrasector transactions.

Total hours refer to hours worked in all economies. The measures are developed from statistics of manufacturing employment and average hours. For most other economies, recent years' aggregate hours series are obtained from national statistical offices, usually from national accounts. However, for some economies and for earlier years, BLS calculates the aggregate hours series using employment figures published with the national accounts, or other comprehensive employment series, and data on average hours worked.

Hourly compensation is total compensation divided by total hours. Total compensation includes all payments in cash or in-kind made directly to employees plus employer expenditures for legally required insurance programs and contractual and private benefit plans. For Australia, Canada, France, and Sweden, compensation is increased to account for important taxes on payroll or employment. For the United Kingdom, compensation is reduced between 1967 and 1991 to account for subsidies.

Labor productivity is defined as real output per hour worked. Although the labor productivity measure presented in this release relates output to the hours worked of persons employed in manufacturing, it does not measure the specific contributions of labor as a single factor of production. Rather, it reflects the joint effects of many influences, including new technology, capital investment, capacity utilization, energy use, and managerial skills, as well as the skills and efforts of the workforce.

Unit labor costs are defined as the cost of labor input required to produce one unit of output. They are computed as compensation in nominal terms divided by real output. Unit labor costs can also be computed by dividing hourly compensation by output per hour, that is, by labor productivity.

## Notes on the data

The measures for recent years may be based on current indicators of manufacturing output (such as industrial production indexes), employment, average hours, and hourly compensation until national accounts and other statistics used for the long-term measures become available.

FOR ADDITIONAL INFORMATION on this series, go to http://www.bls.gov/news. release/prod4.toc.htm or contact the Division of Foreign Labor Statistics at (202) 691-5654.

## Occupational Injury and IIIness Data

(Tables 54-55)

## Survey of Occupational Injuries and IIlnesses

## Description of the series

The Survey of Occupational Injuries and Illnesses collects data from employers about their workers' job-related nonfatal injuries and illnesses. The information that employers provide is based on records that they maintain under the Occupational Safety and Health Act of 1970. Self-employed individuals, farms with fewer than 11 employees, employers regulated by other Federal safety and health laws, and Federal, State, and local government agencies are excluded from the survey.

The survey is a Federal-State cooperative program with an independent sample selected for each participating State. A stratified random sample with a Neyman allocation is selected to represent all private industries in the State. The survey is stratified by Standard Industrial Classification and size of employment.

## Definitions

Under the Occupational Safety and Health Act, employers maintain records of nonfatal work-related injuries and illnesses that 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, or amputation that results from a work-related event or a single, instantaneous exposure in the work environment.

Occupational illness is an abnormal
condition or disorder, other than one resulting from an occupational injury, caused by exposure to 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 injuries and illnesses are cases that involve days away from work, or days of restricted work activity, or both.

Lost workdays include the number of workdays (consecutive or not) on which the employee was either away from work or at work in some restricted capacity, or both, because of an occupational injury or illness. BLS measures of the number and incidence rate of lost workdays were discontinued beginning with the 1993 survey. 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, such as a Federal holiday, even though able to work.

Incidence rates are computed as the number of injuries and/or illnesses or lost work days per 100 full-time workers.

## Notes on the data

The definitions of occupational injuries and illnesses are from Recordkeeping Guidelines for Occupational Injuries and Illnesses (U.S. Department of Labor, Bureau of Labor Statistics, September 1986).

Estimates are made for industries and employment size classes for total recordable cases, lost workday cases, days away from work cases, and nonfatal cases without lost workdays. These data also are shown separately for injuries. Illness data are available for seven categories: occupational skin diseases or disorders, dust diseases of the lungs, respiratory conditions due to toxic agents, poisoning (systemic effects of toxic agents), disorders due to physical agents (other than toxic materials), disorders associated with repeated trauma, and all other occupational illnesses.

The survey continues to measure the number of new work-related illness cases which are recognized, diagnosed, and reported during the year. Some conditions, for example, long-term latent illnesses caused by exposure to carcinogens, often are difficult to relate to the workplace and are not adequately recognized and reported. These long-term latent illnesses are believed to be understated in the survey's illness measure. In
contrast, the overwhelming majority of the reported new illnesses are those which are easier to directly relate to workplace activity (for example, contact dermatitis and carpal tunnel syndrome).

Most of the estimates are in the form of incidence rates, defined as the number of injuries and illnesses per 100 equivalent full-time workers. For this purpose, 200,000 employee hours represent 100 employee years (2,000 hours per employee). Full detail on the available measures is presented in the annual bulletin, Occupational Injuries and Illnesses: Counts, Rates, and Characteristics.

Comparable data for more than 40 States and territories are available from the BLS Office of Safety, Health and Working Conditions. Many of these States publish data on State and local government employees in addition to private industry data.

Mining and railroad data are furnished to BLS by the Mine Safety and Health Administration and the Federal Railroad Administration. Data from these organizations are included in both the national and State data published annually.

With the 1992 survey, BLS began publishing details on serious, nonfatal incidents resulting in days away from work. Included are some major characteristics of the injured and ill workers, such as occupation, age, gender, race, and length of service, as well as the circumstances of their injuries and illnesses (nature of the disabling condition, part of body affected, event and exposure, and the source directly producing the condition). In general, these data are available nationwide for detailed industries and for individual States at more aggregated industry levels.

FOR ADDITIONAL INFORMATION on occupational injuries and illnesses, contact the Office of Occupational Safety, Health and Working Conditions at (202) 691-6180, or access the Internet at: www.bls. gov/iif/

## Census of Fatal Occupational Injuries

The Census of Fatal Occupational Injuries compiles a complete roster of fatal job-related injuries, including detailed data about the fatally injured workers and the fatal events. The program collects and cross checks fatality information from multiple sources, including
death certificates, State and Federal workers' compensation reports, Occupational Safety and Health Administration and Mine Safety and Health Administration records, medical examiner and autopsy reports, media accounts, State motor vehicle fatality records, and follow-up questionnaires to employers.

In addition to private wage and salary workers, the self-employed, family members, and Federal, State, and local government workers are covered by the program. To be included in the fatality census, the decedent must have been employed (that is working for pay, compensation, or profit) at the time of the event, engaged in a legal work activity, or present at the site of the incident as a requirement of his or her job.

## Definition

A fatal work injury is any intentional or unintentional wound or damage to the body resulting in death from acute exposure to energy, such as heat or electricity, or kinetic energy from a crash, or from the absence of such essentials as heat or oxygen caused by a specific event or incident or series of events within a single workday or shift. Fatalities that occur during a person's commute to or from work are excluded from the census, as well as work-related illnesses,which can be difficult to identify due to long latency periods.

## Notes on the data

Twenty-eight data elements are collected, coded, and tabulated in the fatality program, including information about the fatally injured worker, the fatal incident, and the machinery or equipment involved. Summary worker demographic data and event characteristics are included in a national news release that is available about 8 months after the end of the reference year. The Census of Fatal Occupational Injuries was initiated in 1992 as a joint Federal-State effort. Most States issue summary information at the time of the national news release.

FOR ADDITIONAL INFORMATION on the Census of Fatal Occupational Injuries contact the BLS Office of Safety, Health, and Working Conditions at (202) 6916175, or the Internet at: www.bls.gov/iif/

1. Labor market indicators

| Selected indicators | 2006 | 2007 | 2006 |  |  | 2007 |  |  |  | 2008 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | II | III | IV | I | II | III | IV | I | II |
| Employment data |  |  |  |  |  |  |  |  |  |  |  |
| Employment status of the civilian noninstitutional population (household survey): ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Labor force participation rate. | 66.2 | 66.0 | 66.2 | 66.2 | 66.3 | 66.2 | 66.0 | 66.0 | 66.0 | 66.0 | 66.1 |
| Employment-population ratio. | 63.1 | 63.0 | 63.1 | 63.1 | 63.4 | 63.2 | 63.0 | 62.9 | 62.8 | 62.7 | 62.6 |
| Unemployment rate. | 4.6 | 4.6 | 4.7 | 4.7 | 4.4 | 4.5 | 4.5 | 4.7 | 4.8 | 4.9 | 5.3 |
| Men. | 4.6 | 4.7 | 4.7 | 4.6 | 4.5 | 4.6 | 4.6 | 4.8 | 4.9 | 5.0 | 5.5 |
| 16 to 24 years. | 11.2 | 11.6 | 11.2 | 11.4 | 11.0 | 10.8 | 11.5 | 11.8 | 12.2 | 12.7 | 13.3 |
| 25 years and older. | 3.5 | 3.6 | 3.6 | 3.5 | 3.3 | 3.6 | 3.5 | 3.6 | 3.7 | 3.8 | 4.2 |
| Women.. | 4.6 | 4.5 | 4.6 | 4.7 | 4.4 | 4.4 | 4.4 | 4.6 | 4.7 | 4.8 | 5.1 |
| 16 to 24 years. | 9.7 | 9.4 | 9.3 | 10.1 | 9.7 | 9.0 | 9.0 | 9.8 | 9.9 | 10.0 | 11.0 |
| 25 years and older.. | 3.7 | 3.6 | 3.8 | 3.8 | 3.5 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.1 |
| Employment, nonfarm (payroll data), in thousands: ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Total nonfarm. | 136,086 | 137,626 | 135,910 | 136,528 | 136,982 | 137,310 | 137,625 | 137,837 | 138,078 | 137,831 | 137,640 |
| Total private. | 114,113 | 115,423 | 113,996 | 114,472 | 114,899 | 115,167 | 115,423 | 115,610 | 115,759 | 115,454 | 115,181 |
| Goods-producing | 22,531 | 22,221 | 22,570 | 22,564 | 22,436 | 22,362 | 22,267 | 22,138 | 21,976 | 21,737 | 21,505 |
| Manufacturing. | 14,155 | 13,883 | 14,200 | 14,138 | 14,033 | 13,953 | 13,890 | 13,822 | 13,772 | 13,644 | 13,537 |
| Service-providing. | 113,556 | 115,405 | 113,340 | 113,964 | 114,546 | 114,948 | 115,358 | 115,699 | 116,102 | 116,094 | 116,135 |
| Average hours: |  |  |  |  |  |  |  |  |  |  |  |
| Total private.. | 33.9 | 33.8 | 33.9 | 33.8 | 33.9 | 33.9 | 33.9 | 33.8 | 33.8 | 33.8 | 33.7 |
| Manufacturing. | 41.1 | 41.2 | 41.2 | 41.3 | 41.1 | 41.2 | 41.4 | 41.4 | 41.1 | 41.2 | 40.8 |
| Overtime.. | 4.4 | 4.2 | 4.5 | 4.4 | 4.2 | 4.1 | 4.1 | 4.2 | 4.0 | 4.0 | 3.9 |
| Employment Cost Index ${ }^{\text {1,2,3 }}$ |  |  |  |  |  |  |  |  |  |  |  |
| Total compensation: |  |  |  |  |  |  |  |  |  |  |  |
| Civilian nonfarm ${ }^{4}$. | 3.3 | 3.3 | . 9 | 1.1 | . 6 | . 9 | . 8 | 1.0 | . 6 | . 8 | . 7 |
| Private nonfarm. | 3.2 | 3.0 | . 9 | . 8 | . 7 | . 8 | . 9 | . 8 | . 6 | . 9 | . 7 |
| Goods-producing ${ }^{5}$. | 2.5 | 2.4 | 1.0 | . 7 | . 5 | . 4 | 1.0 | . 5 | . 6 | 1.0 | . 7 |
| Service-providing ${ }^{5}$. | 3.4 | 3.2 | . 8 | . 9 | . 7 | . 9 | . 9 | . 9 | . 6 | . 9 | . 7 |
| State and local government | 4.1 | 4.1 | . 4 | 2.3 | . 9 | 1.0 | . 6 | 1.8 | . 7 | . 5 | . 5 |
| Workers by bargaining status (private nonfarm): |  |  |  |  |  |  |  |  |  |  |  |
| Union... | 3.0 | 2.0 | 1.3 | . 6 | . 6 | -. 3 | 1.2 | . 5 | . 7 | . 8 | . 8 |
| Nonunion.. | 3.2 | 3.2 | . 8 | . 9 | . 6 | 1.0 | . 9 | . 8 | . 6 | . 9 | . 7 |

[^8][^9]2. Annual and quarterly percent changes in compensation, prices, and productivity


[^10]only. Series based on NAICS and SOC became the official BLS estimates starting in March 2006.
${ }^{4}$ 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.
${ }^{5}$ Output per hour of all employees.
3. Alternative measures of wage and compensation changes

| Components | Quarterly change |  |  |  |  | Four quarters ending- |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2007 |  |  | 2008 |  | 2007 |  |  | 2008 |  |
|  | II | III | IV | I | II | II | III | IV | I | II |
| Average hourly compensation: ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| All persons, business sector.... | 1.9.8 | 3.6 | 4.45.4 | 5.05.2 | $\begin{aligned} & 3.8 \\ & 3.6 \end{aligned}$ | 4.4 | 4.8 | 3.7 | 3.73.6 | $\begin{aligned} & 4.2 \\ & 4.3 \end{aligned}$ |
| All persons, nonfarm business sector.... |  | 3.3 |  |  |  | 4.2 | 4.6 | 3.6 |  |  |
| Employment Cost Index-compensation: ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |
| Civilian nonfarm ${ }^{3}$. | . 8 | 1.0 | . 6 | . 8 | . 7 | 3.3 | 3.3 | 3.3 | 3.3 | 3.1 |
| Private nonfarm.. | .91.2 | .8.5 | . 6 | . 9 | . 7 | 3.1 | 3.1 | 3.0 | 3.2 | 3.0 |
| Union... |  |  | . 7 | . 8 | . 8 | 2.1 | 2.0 | 2.0 | 3.1 | 2.7 |
| Nonunion... | .9.6 | . 8 | . 6 | . 9 | . 7 | 3.3 | 3.2 | 3.2 | 3.2 | 3.0 |
| State and local government..... |  | 1.8 | . 7 | . 5 | . 5 | 4.8 | 4.3 | 4.1 | 3.6 | 3.5 |
| Employment Cost Index-wages and salaries: ${ }^{2}$ | . 6 |  |  |  |  |  |  |  |  |  |
| Civilian nonfarm ${ }^{3}$. | . 7 | 1.0 | . 7 | . 8 | . 7 | 3.4 | 3.3 | 3.4 | 3.2 | 3.2 |
| Private nonfarm.. | .8.9 | . 9 | . 6 | . 9 | . 7 | 3.3 | 3.4 | 3.3 | 3.2 | 3.12.9 |
| Union......... |  | . 7 | . 3 | . 8 | 1.1 | 2.5 | 2.7 | 2.3 | 2.6 |  |
| Nonunion....... | .8 <br> . | $\begin{array}{r} .9 \\ 1.7 \end{array}$ | . 78 | $\begin{aligned} & .9 \\ & .6 \end{aligned}$ | .7.5 | 3.43.8 | 3.4 | 3.5 | 3.33.5 | 3.23.4 |
| State and local government.............................. |  |  |  |  |  |  | 3.5 | 3.5 |  |  |

${ }^{1}$ Seasonally adjusted. "Quarterly average" is percent change from a quarter ago, at an annual rate.
${ }^{2}$ The Employment Cost Index data reflect the conversion to the 2002 North American Classification System (NAICS) and the 2000 Standard

Occupational Classification (SOC) system. The NAICS and SOC data shown prior to 2006 are for informational purposes only. Series based on NAICS and SOC became the official BLS estimates starting in March 2006.
${ }^{3}$ Excludes Federal and private household workers.
4. Employment status of the population, by sex, age, race, and Hispanic origin, monthly data seasonally adjusted
[Numbers in thousands]

| Employment status | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| TOTAL | $\begin{array}{r} 228,815 \\ 151,428 \\ 66.2 \\ 144,427 \end{array}$ | $\begin{aligned} & 231,867 \\ & 153,124 \end{aligned}$ | $\begin{aligned} & 231,958 \\ & 153,182 \end{aligned}$ | $\begin{aligned} & 232,211 \\ & 152,886 \end{aligned}$ |  |  |  | 233,156 | 232,616 | 232,809 | 232,995 | 233,198 | 233,405 | 233,627 | 233,864 |
| Civilian noninstitutional population ${ }^{1}$ $\qquad$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian labor force.... |  |  |  |  | 153,506 | 153,306 | 153,828 | 153,866 | 153,824 | 153,374 | 153,784 | 153,957 | 154,534 | 154,390 | 154,603 |
| Participation rate.. |  | 66.0146,047 | 146,045 | 65.8 | 66.0 | 65.9 | 66.0 | 66.0 | 66.1 | 65.9 | 66.0 | 66.0 | 66.2 | 66.1 | 66.1 |
| Employed... |  |  |  | 145,753 | 146,260 | 146,016 | 146,647 | 146,211 | 146,248 | 145,993 | 145,969 | 146,331 | 146,046 | 145,891 | 145,819 |
| Employment-population ratio ${ }^{2}$ | 63.1 | 63.0 | 63.0 | 62.8 | 62.9 | 62.7 | 63.0 | 62.7 | 62.9 | 62.7 | 62.6 | 62.7 | 62.6 | 62.4 |  |
| Unemployed. | 7,001 | 7,078 | 7,137 | 7,133 | 7,246 | 7,291 | 7,181 | 7,655 | 7,576 | 7,381 | 7,815 | 7,626 | 8,487 | 8,499 | 8,784 |
| Unemployment rate. | 4.6 | 4.6 | 4.7 | 4.7 | 4.7 | 4.8 | 4.7 | 5.0 | 4.9 | 4.8 | 5.1 | 5.0 | 5.5 | 5.5 | 5.7 |
| Not in the labor force. | 77,387 | 78,743 | 78,776 | 79,325 | 78,955 | 79,409 | 79,111 | 79,290 | 78,792 | 79,436 | 79,211 | 79,241 | 78,871 | 79,237 | 79,261 |
| Men, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$. | 102,145 | 103,555 | 103,598 | 103,723 | 103,847 | 103,973 | 104,087 | 104,197 | 103,866 | 103,961 | 104,052 | 104,152 | 104,258 | 104,371 |  |
| Civilian labor force. | 77,562 | 78,596 | 78,619 | 78,526 | 78,689 | 78,664 | 79,075 | 79,004 |  | 78,748 | 78,838 | 78,776 | 78,878 | 79,037 | 104,490 79,327 |
| Participation rate.. | 75.9 | 75.9 | 75.9 | 75.7 | 75.8 | 75.7 | 76.0 | 75.8 | 75.9 | 75.7 | 75.8 | 75.6 | 75.7 | 75.7 | 75.9 |
| Employed.. | 74,431 | 75,337 | 75,324 | 75,274 | 75,332 | 75,274 | 75,834 | 75,499 | 75,427 | 75,362 | 75,197 | 75,148 | 75,001 | 74,998 | 75,094 |
| Employment-population ratio ${ }^{2}$. | 72.9 | 72.8 | 72.7 |  |  |  | 72.9 | 72.5 | 72.6 | 72.5 | 72.3 | 72.2 | 71.9 |  | 71.9 |
| Unemployed. | 3,131 | 3,259 | 3,295 | 3,252 | 3,357 | 3,389 | 3,240 | 3,505 | 3,437 | 3,386 | 3,641 | 3,628 | 3,877 | 4,038 | 4,234 |
| Unemployment rate.. | 4.0 | 4.1 | 4.2 | 4.1 | 4.3 | 4.3 | 4.1 | 4.4 | 4.4 | 4.3 | 4.6 | 4.6 | 4.9 | 5.1 | 5.3 |
| Not in the labor force. | 24,584 | 24,959 | 24,979 | 25,197 | 25,158 | 25,309 | 25,012 | 25,193 | 25,002 | 25,213 | 25,214 | 25,376 | 25,380 | 25,334 | 25,163 |
| Women, 20 years and over |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional population ${ }^{1}$. | 109,992 | 111,330 | 111,367 | 111,479 | 111,590 | 111,703 | 111,805 | 111,903 | 111,739 | 111,822 | 111,902 | 111,990 |  |  |  |
| Civilian labor force... | 66,585 | 67,516 | 67,566 | 67,616 | 67,795 | 67,623 | 67,776 | 67,866 | 67,982 | 67,816 | 68,159 | 68,176 | 112,083 68,390 | $\begin{array}{r} 112,183 \\ 68,446 \end{array}$ | 112,290 68,303 |
| Participation rate.. | $\begin{array}{r} 60.5 \\ 63,834 \end{array}$ | $\begin{array}{r} 60.6 \\ 64,799 \end{array}$ | 60.7 | 60.7 | 60.8 | 60.5 | 60.6 | 60.6 | 60.8 | 60.6 | 60.9 | 60.9 | 61.0 | 61.0 | 60.865,167 |
| Employed... |  |  | 64,792 | 64,826 | 65,033 | 64,827 | 64,980 | 64,912 | 65,098 | 64,950 | 65,055 | 65,260 | 65,138 | 65,238 |  |
| Employment-population ratio ${ }^{2}$. | 58.0 | 58.2 | 58.2 | 58.2 | 58.3 | 58.0 | 58.1 | 58.0 | 58.3 | 58.1 | 58.1 | 58.3 | 58.1 | 58.2 | 58.0 |
| Unemployed. | 2,751 | 2,718 | 2,774 | 2,790 | 2,762 | 2,796 | 2,796 | 2,954 | 2,885 | 2,865 | 3,104 | 2,916 | 3,252 | 3,208 | 3,135 |
| Unemployment rate. | 4.1 | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.4 | 4.2 | 4.2 | 4.6 | 4.3 | 43,693 | 4.743,737 | 4.643,988 |
| Not in the labor force.. | 43,407 | 43,814 | 43,801 | 43,863 | 43,795 | 44,080 | 44,029 | 44,037 | 43,756 | 44,006 | 43,743 | 43,814 |  |  |  |
| Both sexes, 16 to 19 years | 16,678 | 16,982 | 16,993 | 17,009 | 17,024 | 17,040 | 17,048 | 17,056 |  |  |  |  |  |  |  |
| Civilian noninstitutional |  |  |  |  |  |  |  |  | 17.012 | 17.027 | 17.041 |  |  |  |  |
| Civilian labor force.. | 7,281 | 7,012 | 6,997 | 6,744 | 7,021 | 7,020 | 6,977 | 6,996 | 6,978 | 6,810 | 6,787 | 7,005 | 17,064 7,266 | 17,073 6,907 | 6,973 |
| Participation rate.. | 43.76,162 | 41.3 | 41.2 | 39.7 | 41.2 | 41.2 | 40.9 | 41.0 | 41.0 | 40.0 | 39.8 | 41.1 | 42.6 | 40.5 | 40.8 |
| Employed.. |  | 5,911 | 5,930 | 5,653 | 5,895 | 5,914 | 5,832 | 5,801 | 5,724 | 5,681 | 5,717 | 5,923 | 5,907 | 5,655 | 5,558 |
| Employment-population ratio ${ }^{2}$ | 36.9 | 34.8 | 34.9 |  | 34.6 | 34.7 | 34.2 | 34.0 | 33.6 | 33.4 | 33.5 | 34.7 | 34.6 | 33.1 | 32.5 |
| Unemployed. | 1,119 | 1,101 | 1,067 | 1,092 | 1,126 | 1,105 | 1,145 | 1,196 | 1,254 | 1,130 | 1,070 | 1,082 | 1,358 | 1,253 | 1,415 |
| Unemployment rate.. | 15.4 | 15.7 | 15.3 | 16.2 | 16.0 | 15.7 | 16.4 | 17.1 | 18.0 | 16.6 | 15.8 | 15.4 | 18.7 | 18.1 | 20.3 |
| Not in the labor force. | 9,397 | 9,970 | 9,996 | 10,264 | 10,003 | 10,020 | 10,071 | 10,059 | 10,034 | 10,216 | 10,254 | 10,051 | 9,798 | 10,166 | 10,110 |
| White ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| population ${ }^{1}$... | 186,264 | 188,253 | 188,312 | 188,479 | 188,644 | 188,813 | 188,956 | 189,093 | 188,787 | 188,906 | 189,019 | 189,147 | 189,281 | 189,428 | 189,587 |
| Civilian labor force... | 123,834 | 124,935 | 124,945 | 124,596 | 125,316 | 125,151 | 125,430 | 125,460 | 125,340 | 124,940 | 125,190 | 125,171 | 125,762 | 125,704 | 125,971 |
| Participation rate... | 66.5 | 66.4 | 66.3 | 66.1 | 66.4 | 66.3 | 66.4 | 66.3 | 66.4 | 66.1 | 66.2 | 66.2 | 66.4 | 66.4 | 66.4 |
| Employed..... | 118,833 | 119,792 | 119,713 | 119,340 | 119,992 | 119,883 | 120,194 | 119,889 | 119,858 | 119,534 | 119,574 | 119,667 | 119,661 | 119,518 | 119,542 |
| Employment-population ratio ${ }^{2}$. | 63.8 | 63.6 | 63.6 | 63.3 | 63.6 | 63.5 | 63.6 | 63.4 | 63.5 | 63.3 | 63.3 | 63.3 | 63.2 | 63.1 | 63.1 |
| Unemployed.. | 5,002 | 5,143 | 5,232 | 5,256 | 5,324 | 5,268 | 5,235 | 5,571 | 5,482 | 5,406 | 5,616 | 5,504 | 6,101 | 6,186 | 6,428 |
| Unemployment rate.. | 4.0 | 4.1 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.4 | 4.4 | 4.3 | 4.5 | 4.4 | 4.9 | 4.9 | 5.1 |
| Not in the labor force.. | 62,429 | 63,319 | 63,368 | 63,883 | 63,329 | 63,662 | 63,526 | 63,633 | 63,447 | 63,966 | 63,829 | 63,975 | 63,519 | 63,724 | 63,616 |
| Black or African American ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Civilian noninstitutional |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| population ${ }^{1}$.. | 27,007 | 27,485 | 27,498 | 27,541 | 27,584 | 27,627 | 27,666 | 27,704 | 27,640 | 27,675 | 27,709 | 27,746 | 27,780 | 27,816 | 27,854 |
| Civilian labor force.... | 17,314 | 17,496 | 17,593 | 17,524 | 17,483 | 17,430 | 17,453 | 17,538 | 17,713 | 17,632 | 17,702 | 17,753 | 17,742 | 17,716 | 17,767 |
| Participation rate..... | 64.1 | 63.7 | 64.0 | 63.6 | 63.4 | 63.1 | 63.1 | 63.3 | 64.1 | 63.7 | 63.9 | 64.0 | 63.9 | 63.7 | 63.8 |
| Employed... | 15,765 | 16,051 | 16,172 | 16,176 | 16,046 | 15,946 | 15,980 | 15,961 | 16,090 | 16,169 | 16,116 | 16,234 | 16,029 | 16,085 | 16,040 |
| Employment-population ratio ${ }^{2}$. | 58.4 | 58.4 | 58.8 | 58.7 | 58.2 | 57.7 | 57.8 | 57.6 | 58.2 | 58.4 | 58.2 | 58.5 | 57.7 | 57.8 | 57.6 |
| Unemployed............. | 1,549 | 1,445 | 1,421 | 1,347 | 1,437 | 1,483 | 1,473 | 1,577 | 1,623 | 1,463 | 1,586 | 1,520 | 1,713 | 1,632 | 1,726 |
| Unemployment rate.. | 8.9 | 8.3 | 8.1 | 7.7 | 8.2 | 8.5 | 8.4 | 9.0 | 9.2 | 8.3 | 9.0 | 8.6 | 9.7 | 9.2 | 9.7 |
| Not in the labor force.. | 9,693 | 9,989 | 9,905 | 10,017 | 10,101 | 10,197 | 10,212 | 10,165 | 9,927 | 10,043 | 10,007 | 9,992 | 10,038 | 10,100 | 10,088 |

[^11]4. Continued—Employment status of the population, by sex, age, race, and Hispanic origin, monthly data seasonally adjusted
[Numbers in thousands]

| Employment status | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| Hispanic or Latino ethnicity <br> Civilian noninstitutional |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| population ${ }^{1}$. | 30,103 | 31,383 | 31,423 | 31,520 | 31,617 | 31,714 | 31,809 | 31,903 | 31,643 | 31,732 | 31,820 | 31,911 | 31,998 | 32,087 | 32,179 |
| Civilian labor force... | 20,694 | 21,602 | 21,613 | 21,781 | 21,872 | 21,778 | 21,872 | 21,888 | 21,698 | 21,755 | 21,775 | 21,917 | 22,102 | 22,131 | 22,071 |
| Participation rate... | 68.7 | 68.8 | 68.8 | 69.1 | 69.2 | 68.7 | 68.8 | 68.6 | 68.6 | 68.6 | 68.4 | 68.7 | 69.1 | 69.0 | 68.6 |
| Employed.. | 19,613 | 20,382 | 20,345 | 20,578 | 20,619 | 20,554 | 20,623 | 20,517 | 20,320 | 20,401 | 20,269 | 20,404 | 20,573 | 20,420 | 20,435 |
| Employment-population ratio ${ }^{2}$. | 65.2 | 64.9 | 64.7 | 65.3 | 65.2 | 64.8 | 64.8 | 64.3 | 64.2 | 64.3 | 63.7 | 63.9 | 64.3 | 63.6 | 63.5 |
| Unemployed.... | 1,081 | 1,220 | 1,269 | 1,204 | 1,253 | 1,224 | 1,249 | 1,371 | 1,378 | 1,354 | 1,507 | 1,512 | 1,529 | 1,711 | 1,636 |
| Unemployment rate | 5.2 | 5.6 | 5.9 | 5.5 | 5.7 | 5.6 | 5.7 | 6.3 | 6.3 | 6.2 | 6.9 | 6.9 | 6.9 | 7.7 | 7.4 |
| Not in the labor force.. | 9,409 | 9,781 | 9,809 | 9,738 | 9,745 | 9,936 | 9,938 | 10,016 | 9,946 | 9,977 | 10,045 | 9,994 | 9,896 | 9,956 | 10,108 |

${ }^{1}$ The population figures are not seasonally adjusted.
${ }^{2}$ Civilian employment as a percent of the civilian noninstitutional population.
${ }^{3}$ Beginning in 2003, persons who selected this race group only; persons who selected more than one race group are not included. Prior to 2003, persons who reported more than one race were included in the group they identified as the main race.

NOTE: Estimates for the above race groups (white and black or African American) do not sum to totals because data are not presented for all races. In addition, persons whose ethnicity is identified as Hispanic or Latino may be of any race and, therefore, are classified by ethnicity as well as by race. Beginning in January 2003, data reflect revised population controls used in the household survey.
5. Selected employment indicators, monthly data seasonally adjusted
[In thousands]

| Selected categories | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| Characteristic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Employed, 16 years and older.. | 144,427 | 146,047 | 146,045 | 145,753 | 146,260 | 146,016 | 146,647 | 146,211 | 146,248 | 145,993 | 145,969 | 146,331 | 146,046 | 145,891 | 145,819 |
| Men. | 77,502 | 78,254 | 78,237 | 78,066 | 78,229 | 78,177 | 78,604 | 78,260 | 78,157 | 78,113 | 77,948 | 78,038 | 77,954 | 77,794 | 77,823 |
| Women. | 66,925 | 67,792 | 67,808 | 67,687 | 68,030 | 67,838 | 68,043 | 67,951 | 68,091 | 67,880 | 68,021 | 68,293 | 68,092 | 68,097 | 67,996 |
| Married men, spouse present $\qquad$ | 45,700 | 46,314 | 46,307 | 46,193 | 46,235 | 46,189 | 46,339 | 46,213 | 46,063 | 46,136 | 45,961 | 45,964 | 45,862 | 45,911 | 46,120 |
| Married women, spouse present. $\qquad$ | 35,272 | 35,832 | 35,938 | 35,794 | 35,712 | 35,449 | 35,689 | 35,565 | 35,536 | 35,648 | 35,749 | 36,177 | 36,171 | 36,270 | 36,185 |
| Persons at work part time ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All industries: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part time for economic reasons $\qquad$ | 4,162 | 4,401 | 4,332 | 4,517 | 4,499 | 4,401 | 4,513 | 4,665 | 4,769 | 4,884 | 4,914 | 5,220 | 5,233 | 5,416 | 5,724 |
| Slack work or business conditions. $\qquad$ | 2,658 | 2,877 | 2,751 | 2,955 | 2,991 | 2,788 | 3,008 | 3,174 | 3,247 | 3,291 | 3,323 | 3,558 | 3,595 | 3,816 | 4,194 |
| Could only find part-time work. | 1,189 | 1,210 | 1,210 | 1,175 | 1,166 | 1,215 | 1,223 | 1,236 | 1,163 | 1,222 | 1,362 | 1,323 | 1,281 | 1,336 | 1,286 |
| Part time for noneconomic reasons. $\qquad$ | 19,591 | 19,756 | 19,957 | 19,779 | 19,812 | 19,337 | 19,539 | 19,526 | 19,613 | 19,348 | 19,409 | 19,809 | 19,428 | 19,496 | 19,406 |
| Nonagricultural industries: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Part time for economic reasons. $\qquad$ | 4,071 | 4,317 | 4,259 | 4,466 | 4,397 | 4,302 | 4,453 | 4,577 | 4,677 | 4,790 | 4,797 | 5,125 | 5,164 | 5,308 | 5,599 |
| Slack work or business conditions $\qquad$ | 2,596 | 2,827 | 2,711 | 2,916 | 2,922 | 2,745 | 2,981 | 3,120 | 3,174 | 3,231 | 3,238 | 3,513 | 3,531 | 3,744 | 4,156 |
| Could only find part-time work. $\qquad$ | 1,178 | 1,199 | 1,205 | 1,152 | 1,153 | 1,207 | 1,205 | 1,219 | 1,149 | 1,216 | 1,354 | 1,331 | 1,288 | 1,328 | 1,277 |
| Part time for noneconomic reasons $\qquad$ | 19,237 | 19,419 | 19,569 | 19,469 | 19,451 | 19,157 | 19,224 | 19,225 | 19,296 | 19,019 | 19,072 | 19,456 | 19,047 | 19,106 | 19,051 |

[^12]NOTE: Beginning in January 2003, data reflect revised population controls used in the household survey.

## 6. Selected unemployment indicators, monthly data seasonally adjusted

[Unemployment rates]

| Selected categories | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| Characteristic |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total, 16 years and older.. | 4.6 | 4.6 | 4.7 | 4.7 | 4.7 | 4.8 | 4.7 | 5.0 | 4.9 | 4.8 | 5.1 | 5.0 | 5.5 | 5.5 | 5.7 |
| Both sexes, 16 to 19 years. | 15.4 | 15.7 | 15.3 | 16.2 | 16.0 | 15.7 | 16.4 | 17.1 | 18.0 | 16.6 | 15.8 | 15.4 | 18.7 | 18.1 | 20.3 |
| Men, 20 years and older.. | 4.0 | 4.1 | 4.2 | 4.1 | 4.3 | 4.3 | 4.1 | 4.4 | 4.4 | 4.3 | 4.6 | 4.6 | 4.9 | 5.1 | 5.3 |
| Women, 20 years and older... | 4.1 | 4.0 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.4 | 4.2 | 4.2 | 4.6 | 4.3 | 4.8 | 4.7 | 4.6 |
| White, total ${ }^{1}$. | 4.0 | 4.1 | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 4.4 | 4.4 | 4.3 | 4.5 | 4.4 | 4.9 | 4.9 | 5.1 |
| Both sexes, 16 to 19 years | 13.2 | 13.9 | 13.8 | 14.4 | 14.3 | 14.0 | 14.7 | 14.4 | 15.6 | 14.4 | 13.2 | 13.8 | 16.4 | 16.6 | 19.0 |
| Men, 16 to 19 years.. | 14.6 | 15.7 | 15.5 | 16.5 | 16.4 | 15.9 | 17.8 | 16.8 | 19.0 | 17.1 | 14.7 | 15.2 | 17.7 | 17.8 | 22.2 |
| Women, 16 to 19 years. | 11.7 | 12.1 | 12.0 | 12.2 | 12.2 | 12.0 | 11.8 | 12.1 | 12.3 | 11.8 | 11.7 | 12.4 | 14.9 | 15.3 | 15.6 |
| Men, 20 years and older... | 3.5 | 3.7 | 3.8 | 3.8 | 3.9 | 3.8 | 3.7 | 3.9 | 3.9 | 3.9 | 4.1 | 4.1 | 4.4 | 4.5 | 4.7 |
| Women, 20 years and older... | 3.6 | 3.6 | 3.6 | 3.7 | 3.5 | 3.6 | 3.7 | 4.0 | 3.8 | 3.8 | 4.1 | 3.7 | 4.1 | 4.2 | 4.1 |
| Black or African American, total ${ }^{1}$. | 8.9 | 8.3 | 8.1 | 7.7 | 8.2 | 8.5 | 8.4 | 9.0 | 9.2 | 8.3 | 9.0 | 8.6 | 9.7 | 9.2 | 9.7 |
| Both sexes, 16 to 19 years. | 29.1 | 29.4 | 27.0 | 31.2 | 28.9 | 27.9 | 29.7 | 34.7 | 35.7 | 31.7 | 31.3 | 24.5 | 32.3 | 29.6 | 32.0 |
| Men, 16 to 19 years... | 32.7 | 33.8 | 31.1 | 33.2 | 33.9 | 36.0 | 34.6 | 39.5 | 41.3 | 32.6 | 38.9 | 27.9 | 40.1 | 35.5 | 38.0 |
| Women, 16 to 19 years.. | 25.9 | 25.3 | 23.5 | 29.4 | 24.2 | 20.1 | 24.9 | 30.1 | 28.5 | 30.9 | 25.4 | 21.9 | 25.2 | 23.9 | 26.5 |
| Men, 20 years and older.. | 8.3 | 7.9 | 7.6 | 6.8 | 7.5 | 8.2 | 7.9 | 8.4 | 8.3 | 7.9 | 8.4 | 8.4 | 8.9 | 9.3 | 10.0 |
| Women, 20 years and older.. | 7.5 | 6.7 | 6.9 | 6.5 | 7.1 | 7.1 | 7.0 | 7.0 | 7.3 | 6.5 | 7.5 | 7.4 | 8.2 | 7.4 | 7.5 |
| Hispanic or Latino ethnicity..... | 5.2 | 5.6 | 5.9 | 5.5 | 5.7 | 5.6 | 5.7 | 6.3 | 6.3 | 6.2 | 6.9 | 6.9 | 6.9 | 7.7 | 7.4 |
| Married men, spouse present. | 2.4 | 2.5 | 2.7 | 2.5 | 2.5 | 2.6 | 2.6 | 2.7 | 2.7 | 2.7 | 2.8 | 2.8 | 2.9 | 3.0 | 3.2 |
| Married women, spouse present. | 2.9 | 2.8 | 2.9 | 3.1 | 2.9 | 2.9 | 3.0 | 3.1 | 3.1 | 3.1 | 3.3 | 3.0 | 3.1 | 3.3 | 3.3 |
| Full-time workers.. | 4.5 | 4.6 | 4.6 | 4.6 | 4.7 | 4.7 | 4.6 | 4.9 | 4.8 | 4.8 | 5.0 | 5.0 | 5.5 | 5.5 | 5.7 |
| Part-time workers.. | 5.1 | 4.9 | 5.1 | 4.9 | 4.7 | 5.0 | 5.0 | 5.6 | 5.4 | 5.0 | 5.3 | 4.9 | 5.5 | 5.4 | 5.5 |
| Educational attainment ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Less than a high school diploma..... | 6.8 | 7.1 | 7.2 | 6.7 | 7.5 | 7.4 | 7.6 | 7.6 | 7.7 | 7.3 | 8.2 | 7.8 | 8.3 | 8.7 | 8.5 |
| High school graduates, no college ${ }^{3}$.. | 4.3 | 4.4 | 4.5 | 4.4 | 4.6 | 4.6 | 4.5 | 4.7 | 4.6 | 4.7 | 5.1 | 5.0 | 5.2 | 5.1 | 5.2 |
| Some college or associate degree... | 3.6 | 3.6 | 3.6 | 3.7 | 3.4 | 3.5 | 3.3 | 3.7 | 3.6 | 3.7 | 3.8 | 3.9 | 4.3 | 4.2 | 4.5 |
| Bachelor's degree and higher ${ }^{4}$...... | 2.0 | 2.0 | 2.1 | 2.1 | 2.0 | 2.1 | 2.2 | 2.2 | 2.1 | 2.1 | 2.1 | 2.1 | 2.2 | 2.3 | 2.4 |

[^13]
## 7. Duration of unemployment, monthly data seasonally adjusted

[Numbers in thousands]

| Weeks of unemployment | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| Less than 5 weeks. | 2,614 | 2,542 | 2,496 | 2,610 | 2,537 | 2,508 | 2,633 | 2,793 | 2,634 | 2,639 | 2,767 | 2,484 | 3,244 | 2,712 | 2,835 |
| 5 to 14 weeks. | 2,121 | 2,232 | 2,220 | 2,201 | 2,330 | 2,454 | 2,157 | 2,330 | 2,396 | 2,396 | 2,525 | 2,495 | 2,469 | 2,999 | 2,823 |
| 15 weeks and over. | 2,266 | 2,303 | 2,402 | 2,375 | 2,392 | 2,367 | 2,398 | 2,520 | 2,503 | 2,377 | 2,400 | 2,626 | 2,773 | 2,916 | 3,118 |
| 15 to 26 weeks. | 1,031 | 1,061 | 1,091 | 1,124 | 1,112 | 1,052 | 1,014 | 1,182 | 1,124 | 1,079 | 1,118 | 1,272 | 1,223 | 1,328 | 1,440 |
| 27 weeks and over. | 1,235 | 1,243 | 1,311 | 1,252 | 1,280 | 1,315 | 1,384 | 1,338 | 1,380 | 1,299 | 1,282 | 1,353 | 1,550 | 1,587 | 1,678 |
| Mean duration, in weeks.. | 16.8 | 16.8 | 17.3 | 16.9 | 16.6 | 17.0 | 17.2 | 16.6 | 17.5 | 16.8 | 16.2 | 16.9 | 16.6 | 17.5 | 17.1 |
| Median duration, in weeks... | 8.3 | 8.5 | 8.9 | 8.6 | 8.9 | 8.7 | 8.7 | 8.4 | 8.8 | 8.4 | 8.1 | 9.3 | 8.3 | 10.0 | 9.7 |

NOTE: Beginning in January 2003, data reflect revised population controls used in the household survey.
8. Unemployed persons by reason for unemployment, monthly data seasonally adjusted
[Numbers in thousands]

| Reason for unemployment | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| Job losers ${ }^{1}$ | 3,321 | 3,515 | 3,629 | 3,632 | 3,622 | 3,731 | 3,609 | 3,857 | 3,796 | 3,854 | 4,154 | 4,014 | 4,282 | 4,370 | 4,407 |
| On temporary layoff............. | 921 | 976 | 983 | 981 | 963 | 1,064 | 979 | 975 | 1,040 | 971 | 1,056 | 1,099 | 1,113 | 1,077 | 1,037 |
| Not on temporary layoff....... | 2,400 | 2,539 | 2,646 | 2,652 | 2,660 | 2,668 | 2,630 | 2,882 | 2,756 | 2,883 | 3,098 | 2,915 | 3,169 | 3,292 | 3,370 |
| Job leavers............................ | 827 | 793 | 823 | 794 | 839 | 790 | 783 | 798 | 830 | 769 | 781 | 850 | 870 | 833 | 861 |
| Reentrants............................ | 2,237 | 2,142 | 2,082 | 2,076 | 2,154 | 2,103 | 2,160 | 2,343 | 2,201 | 2,112 | 2,117 | 2,134 | 2,460 | 2,498 | 2,705 |
| New entrants........................ | 616 | 627 | 602 | 603 | 685 | 709 | 669 | 697 | 667 | 648 | 681 | 624 | 828 | 748 | 811 |
| Percent of unemployed |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers ${ }^{1}$. | 47.4 | 49.7 | 50.8 | 51.1 | 49.6 | 50.9 | 50.0 | 50.1 | 50.7 | 52.2 | 53.7 | 52.7 | 50.7 | 51.7 | 50.2 |
| On temporary layoff. | 13.2 | 13.8 | 13.8 | 13.8 | 13.2 | 14.5 | 13.6 | 12.7 | 13.9 | 13.2 | 13.7 | 14.4 | 13.2 | 12.7 | 11.8 |
| Not on temporary layoff. | 34.3 | 35.9 | 37.1 | 37.3 | 36.4 | 36.4 | 36.4 | 37.5 | 36.8 | 39.0 | 40.1 | 38.2 | 37.5 | 39.0 | 38.4 |
| Job leavers | 11.8 | 11.2 | 11.5 | 11.2 | 11.5 | 10.8 | 10.8 | 10.4 | 11.1 | 10.4 | 10.1 | 11.2 | 10.3 | 9.9 | 9.8 |
| Reentrants | 32.0 | 30.3 | 29.2 | 29.2 | 29.5 | 28.7 | 29.9 | 30.4 | 29.4 | 28.6 | 27.4 | 28.0 | 29.1 | 29.6 | 30.8 |
| New entrants.......................... | 8.8 | 8.9 | 8.4 | 8.5 | 9.4 | 9.7 | 9.3 | 9.1 | 8.9 | 8.8 | 8.8 | 8.2 | 9.8 | 8.9 | 9.2 |
| Percent of civilian labor force |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Job losers ${ }^{1}$. | 2.2 | 2.3 | 2.4 | 2.4 | 2.4 | 2.4 | 2.3 | 2.5 | 2.5 | 2.5 | 2.7 | 2.6 | 2.8 | 2.8 | 2.9 |
| Job leavers.. | . 5 | . 5 | . 5 | . 5 | . 5 | . 5 | . 5 | . 5 | . 5 | . 5 | . 5 | . 6 | . 6 | . 5 | . 6 |
| Reentrants... | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.4 | 1.4 | 1.4 | 1.4 | 1.6 | 1.6 | 1.7 |
| New entrants....................... | . 4 | . 4 | . 4 | . 4 | . 4 | . 5 | . 4 | . 5 | . 4 | . 4 | . 4 | . 4 | . 5 | . 5 | . 5 |

${ }^{1}$ Includes persons who completed temporary jobs.
NOTE: Beginning in January 2003, data reflect revised population controls used in the household survey.
9. Unemployment rates by sex and age, monthly data seasonally adjusted
[Civilian workers]

| Sex and age | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| Total, 16 years and older. | 4.6 | 4.6 | 4.7 | 4.7 | 4.7 | 4.8 | 4.7 | 5.0 | 4.9 | 4.8 | 5.1 | 5.0 | 5.5 | 5.5 | 5.7 |
| 16 to 24 years.. | 10.5 | 10.5 | 10.6 | 10.8 | 11.0 | 10.8 | 10.7 | 11.8 | 11.7 | 11.3 | 11.3 | 11.0 | 13.0 | 12.6 | 13.4 |
| 16 to 19 years. | 15.4 | 15.7 | 15.3 | 16.2 | 16.0 | 15.7 | 16.4 | 17.1 | 18.0 | 16.6 | 15.8 | 15.4 | 18.7 | 18.1 | 20.3 |
| 16 to 17 years. | 17.2 | 17.5 | 17.0 | 18.6 | 18.6 | 17.5 | 19.0 | 19.6 | 20.4 | 18.3 | 18.6 | 19.7 | 21.2 | 23.3 | 24.9 |
| 18 to 19 years. | 14.1 | 14.5 | 14.0 | 14.6 | 14.3 | 14.3 | 14.4 | 15.4 | 15.9 | 15.5 | 14.0 | 13.2 | 17.5 | 15.6 | 17.3 |
| 20 to 24 years..... | 8.2 | 8.2 | 8.5 | 8.4 | 8.8 | 8.6 | 8.0 | 9.4 | 8.7 | 8.9 | 9.3 | 8.9 | 10.4 | 10.1 | 10.2 |
| 25 years and older. | 3.6 | 3.6 | 3.7 | 3.6 | 3.7 | 3.7 | 3.7 | 3.9 | 3.8 | 3.8 | 4.0 | 3.9 | 4.1 | 4.3 | 4.4 |
| 25 to 54 years.. | 3.8 | 3.7 | 3.8 | 3.8 | 3.8 | 3.8 | 3.8 | 4.1 | 3.9 | 3.9 | 4.2 | 4.2 | 4.4 | 4.5 | 4.6 |
| 55 years and older.. | 3.0 | 3.1 | 3.2 | 3.2 | 3.1 | 3.1 | 3.0 | 3.2 | 3.2 | 3.2 | 3.4 | 3.0 | 3.3 | 3.3 | 3.6 |
| Men, 16 years and older. | 4.6 | 4.7 | 4.7 | 4.7 | 4.9 | 4.9 | 4.7 | 5.1 | 5.1 | 4.9 | 5.2 | 5.1 | 5.6 | 5.7 | 6.1 |
| 16 to 24 years. | 11.2 | 11.6 | 11.5 | 11.6 | 12.2 | 12.0 | 11.8 | 12.8 | 13.1 | 12.5 | 12.5 | 12.0 | 14.1 | 13.8 | 15.2 |
| 16 to 19 years. | 16.9 | 17.6 | 16.9 | 18.0 | 18.3 | 18.1 | 19.5 | 19.8 | 21.8 | 18.7 | 17.8 | 16.9 | 20.7 | 19.9 | 23.4 |
| 16 to 17 years. | 18.6 | 19.4 | 19.3 | 21.7 | 21.9 | 19.0 | 21.4 | 22.1 | 24.0 | 20.5 | 22.0 | 22.2 | 23.3 | 26.2 | 29.4 |
| 18 to 19 years. | 15.7 | 16.5 | 15.4 | 15.2 | 16.2 | 16.8 | 17.8 | 18.4 | 19.5 | 18.0 | 15.2 | 14.5 | 19.6 | 17.1 | 19.9 |
| 20 to 24 years..... | 8.7 | 8.9 | 9.2 | 8.9 | 9.5 | 9.3 | 8.6 | 9.8 | 9.4 | 9.9 | 10.3 | 9.9 | 11.0 | 11.2 | 11.6 |
| 25 years and older.. | 3.5 | 3.6 | 3.6 | 3.6 | 3.7 | 3.7 | 3.6 | 3.8 | 3.8 | 3.7 | 4.0 | 4.0 | 4.2 | 4.3 | 4.6 |
| 25 to 54 years........ | 3.6 | 3.7 | 3.7 | 3.7 | 3.8 | 3.8 | 3.7 | 4.0 | 4.0 | 3.8 | 4.1 | 4.3 | 4.4 | 4.6 | 4.9 |
| 55 years and older.... | 3.0 | 3.2 | 3.4 | 3.4 | 3.3 | 3.1 | 3.1 | 3.2 | 3.2 | 3.2 | 3.3 | 3.0 | 3.4 | 3.4 | 3.7 |
| Women, 16 years and older.. | 4.6 | 4.5 | 4.6 | 4.6 | 4.5 | 4.6 | 4.6 | 4.9 | 4.7 | 4.7 | 5.0 | 4.8 | 5.3 | 5.2 | 5.2 |
| 16 to 24 years..... | 9.7 | 9.4 | 9.6 | 10.0 | 9.8 | 9.6 | 9.4 | 10.7 | 10.1 | 9.9 | 10.0 | 9.8 | 11.9 | 11.2 | 11.4 |
| 16 to 19 years. | 13.8 | 13.8 | 13.6 | 14.4 | 13.7 | 13.3 | 13.4 | 14.4 | 14.2 | 14.5 | 13.8 | 14.0 | 16.6 | 16.3 | 17.1 |
| 16 to 17 years. | 15.9 | 15.7 | 14.8 | 15.5 | 15.6 | 16.1 | 17.1 | 17.3 | 17.2 | 16.2 | 15.5 | 17.5 | 19.0 | 20.3 | 20.4 |
| 18 t0 19 years. | 12.4 | 12.5 | 12.6 | 13.9 | 12.3 | 11.6 | 10.7 | 12.3 | 12.1 | 12.8 | 12.8 | 11.8 | 15.2 | 13.9 | 14.6 |
| 20 to 24 years.. | 7.6 | 7.3 | 7.7 | 7.9 | 7.9 | 7.7 | 7.4 | 8.8 | 8.0 | 7.7 | 8.1 | 7.7 | 9.6 | 8.8 | 8.7 |
| 25 years and older. | 3.7 | 3.6 | 3.8 | 3.7 | 3.7 | 3.7 | 3.8 | 3.9 | 3.8 | 3.8 | 4.1 | 3.9 | 4.1 | 4.2 | 4.2 |
| 25 to 54 years.... | 3.9 | 3.8 | 3.9 | 3.9 | 3.8 | 3.9 | 4.0 | 4.1 | 3.9 | 4.0 | 4.2 | 4.0 | 4.4 | 4.4 | 4.3 |
| 55 years and older ${ }^{\prime}$.. | 2.9 | 3.0 | 3.5 | 3.4 | 3.0 | 3.0 | 2.8 | 2.9 | 3.4 | 3.3 | 3.4 | 2.8 | 2.8 | 3.4 | 4.3 |

${ }^{1}$ Data are not seasonally adjusted.
NOTE: Beginning in January 2003, data reflect revised population controls used in the household survey.
10. Unemployment rates by State, seasonally adjusted

| State | June 2007 | $\begin{gathered} \hline \text { May } \\ 2007^{p} \end{gathered}$ | June $2008^{p}$ | State | June 2007 | $\begin{gathered} \hline \text { May } \\ 2007^{\text {p }} \end{gathered}$ | June 2008 ${ }^{\text {p }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama.. | 3.5 | 4.7 | 4.7 | Missouri. | 5.0 | 6.0 | 5.7 |
| Alaska. | 6.1 | 6.9 | 6.7 | Montana. | 3.1 | 4.2 | 4.1 |
| Arizona. | 3.6 | 4.4 | 4.8 | Nebraska. | 3.1 | 3.2 | 3.3 |
| Arkansas. | 5.4 | 5.1 | 5.0 | Nevada.. | 4.8 | 6.2 | 6.4 |
| California.. | 5.3 | 6.8 | 7.0 | New Hampshire.. | 3.6 | 4.0 | 4.0 |
| Colorado.. | 3.7 | 4.9 | 5.1 | New Jersey.. | 4.2 | 5.4 | 5.3 |
| Connecticut. | 4.4 | 5.4 | 5.5 | New Mexico.. | 3.5 | 3.8 | 3.9 |
| Delaware. | 3.3 | 4.1 | 4.2 | New York.. | 4.6 | 5.2 | 5.3 |
| District of Columbia. | 5.7 | 6.6 | 6.3 | North Carolina. | 4.7 | 5.9 | 5.9 |
| Florida.. | 4.0 | 5.6 | 5.5 | North Dakota. | 3.2 | 3.3 | 3.2 |
| Georgia.. | 4.4 | 5.7 | 5.6 | Ohio. | 5.7 | 6.3 | 6.6 |
| Hawaii. | 2.6 | 3.6 | 3.8 | Oklahoma. | 4.4 | 3.5 | 3.9 |
| Idaho. | 2.7 | 3.6 | 3.8 | Oregon.. | 5.2 | 5.6 | 5.5 |
| Illinois.. | 5.0 | 6.4 | 6.8 | Pennsylvania. | 4.3 | 5.2 | 5.2 |
| Indiana.. | 4.5 | 5.3 | 5.9 | Rhode Island. | 5.0 | 7.2 | 7.5 |
| Iowa. | 3.8 | 3.9 | 4.0 | South Carolina. | 5.7 | 6.5 | 6.1 |
| Kansas.. | 4.1 | 4.6 | 4.3 | South Dakota. | 2.9 | 2.9 | 2.8 |
| Kentucky.. | 5.5 | 6.2 | 6.3 | Tennessee. | 4.6 | 6.4 | 6.5 |
| Louisiana.. | 3.7 | 4.0 | 3.8 | Texas.. | 4.3 | 4.5 | 4.4 |
| Maine... | 4.7 | 5.4 | 5.3 | Utah. | 2.7 | 3.2 | 3.3 |
| Maryland.. | 3.6 | 4.0 | 4.0 | Vermont. | 3.8 | 4.9 | 4.7 |
| Massachusetts. | 4.5 | 4.9 | 5.2 | Virginia.. | 3.0 | 3.9 | 4.0 |
| Michigan.. | 7.1 | 8.5 | 8.5 | Washington.. | 4.5 | 5.3 | 5.4 |
| Minnesota. | 4.5 | 5.4 | 5.3 | West Virginia....................................... | 4.5 | 5.3 | 5.3 |
| Mississippi... | 6.3 | 6.9 | 7.0 | Wisconsin......................................... | 4.8 | 4.4 | 4.6 |
|  |  |  |  | Wyoming............................................ | 3.1 | 2.9 | 3.2 |

${ }^{p}=$ preliminary
11. Employment of workers on nonfarm payrolls by State, seasonally adjusted

| State | June 2007 | $\begin{gathered} \hline \text { May } \\ 2007^{\text {p }} \end{gathered}$ | June 2008 ${ }^{\text {p }}$ | State | June 2007 | $\begin{gathered} \hline \text { May } \\ 2007^{p} \end{gathered}$ | June $2008^{p}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama. | 2,182,845 | 2,206,959 | 2,193,795 | Missouri. | 3,030,362 | 3,031,728 | 3,013,754 |
| Alaska. | 352,104 | 360,020 | 359,753 | Montana. | 501,499 | 503,998 | 504,237 |
| Arizona. | 3,021,368 | 3,068,807 | 3,071,144 | Nebraska. | 985,015 | 996,099 | 994,983 |
| Arkansas. | 1,366,002 | 1,383,946 | 1,374,363 | Nevada. | 1,334,388 | 1,394,653 | 1,394,472 |
| California. | 18,182,148 | 18,446,229 | 18,431,325 | New Hampshire. | 738,169 | 745,382 | 746,147 |
| Colorado. | 2,701,057 | 2,765,873 | 2,759,853 | New Jersey.. | 4,467,625 | 4,516,789 | 4,505,006 |
| Connecticut | 1,861,099 | 1,886,487 | 1,886,827 | New Mexico. | 942,437 | 949,666 | 951,334 |
| Delaware. | 442,229 | 446,064 | 446,101 | New York. | 9,528,910 | 9,590,326 | 9,620,555 |
| District of Columbia | 323,288 | 331,839 | 328,482 | North Carolina. | 4,526,537 | 4,561,644 | 4,559,713 |
| Florida. | 9,135,410 | 9,263,932 | 9,250,317 | North Dakota. | 365,424 | 373,012 | 372,443 |
| Georgia. | 4,811,005 | 4,901,799 | 4,889,808 | Ohio. | 5,980,866 | 6,005,619 | 5,988,368 |
| Hawaii. | 649,855 | 663,369 | 663,245 | Oklahoma | 1,734,455 | 1,735,085 | 1,733,393 |
| Idaho. | 755,181 | 755,212 | 752,324 | Oregon. | 1,927,115 | 1,945,592 | 1,938,370 |
| Illinois. | 6,705,295 | 6,824,185 | 6,775,620 | Pennsylvania.. | 6,297,400 | 6,405,503 | 6,394,738 |
| Indiana. | 3,208,264 | 3,229,677 | 3,219,283 | Rhode Island. | 577,971 | 571,560 | 572,128 |
| Iowa. | 1,659,989 | 1,679,525 | 1,672,261 | South Carolina. | 2,133,783 | 2,150,865 | 2,142,982 |
| Kansas. | 1,479,438 | 1,494,578 | 1,491,211 | South Dakota. | 442,728 | 444,744 | 444,627 |
| Kentucky. | 2,045,058 | 2,047,456 | 2,041,828 | Tennessee | 3,033,878 | 3,062,538 | 3,043,947 |
| Louisiana. | 1,989,101 | 2,008,102 | 2,012,118 | Texas. | 11,484,815 | 11,712,220 | 11,682,351 |
| Maine. | 703,976 | 708,936 | 710,175 | Utah. | 1,360,251 | 1,388,270 | 1,380,611 |
| Maryland. | 2,975,302 | 3,017,148 | 3,012,875 | Vermont | 353,877 | 352,292 | 353,420 |
| Massachusetts. | 3,409,437 | 3,391,913 | 3,409,561 | Virginia. | 4,051,667 | 4,125,326 | 4,124,453 |
| Michigan. | 5,023,547 | 5,007,445 | 4,990,167 | Washington. | 3,402,395 | 3,451,292 | 3,449,748 |
| Minnesota. | 2,931,395 | 2,951,882 | 2,935,404 | West Virginia. | 808,350 | 816,375 | 813,277 |
| Mississippi. | 1,311,772 | 1,341,915 | 1,327,847 | Wisconsin. | 3,087,244 | 3,089,857 | 3,078,458 |
|  |  |  |  | Wyoming.................................... | 287,901 | 290,173 | 290,369 |

NOTE: Some data in this table may differ from data published elsewhere because of the continual updating of the database.
${ }^{\mathrm{p}}=$ preliminary
12. Employment of workers on nonfarm payrolls by industry, monthly data seasonally adjusted [In thousands]

| Industry | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June ${ }^{\text {p }}$ | July ${ }^{\text {p }}$ |
| TOTAL NONFARM. | $\begin{array}{\|r} \hline 136,086 \\ 114,113 \\ 22,531 \end{array}$ | 137,623 115,420 22,221 | 137,682 115,512 <br> 22,242 | 137,756 115,544 22,176 | 137,837 115,610 <br> 22,138 | $\begin{array}{r} 137,977 \\ 115,715 \\ 22,101 \end{array}$ | $\begin{array}{r} 138,037 \\ 115,759 \\ 22,049 \end{array}$ | 138,078 115,745 <br> 21,976 | $\begin{aligned} & 138,002 \\ & 115,666 \end{aligned}$ | $\begin{aligned} & 137,919 \\ & 115,557 \end{aligned}$ | $\begin{aligned} & 137,831 \\ & 115,454 \end{aligned}$ | $\begin{aligned} & 137,764 \\ & 115,363 \end{aligned}$ | $\begin{aligned} & 137,717 \\ & 115,264 \end{aligned}$ | $\begin{aligned} & 137,666 \\ & 115,170 \end{aligned}$ | $\begin{aligned} & 137,615 \\ & 115,094 \end{aligned}$ |
| TOTAL PRIVATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GOODS-PRODUCING. |  |  |  |  |  |  |  |  | $21,907$ | 21,816 | 21,737 | 21,628 | 21,577 | 21,500 | 21,454 |
| Natural resources and |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| mining | $\begin{array}{r} 684 \\ 64.4 \end{array}$ | 723 | 72659.9 | 727 | 72759.7 | 72759.1 | $\begin{array}{r} 735 \\ 59.9 \end{array}$ | 739 | 74460.7 | $\begin{gathered} 744 \\ 60.2 \end{gathered}$ | 75060.1 | 75260.8 | $760$ | 76757.4 | 77857.9 |
| Logging |  | 60.8 |  | 59.5 |  |  |  | 60.6 |  |  |  |  |  |  |  |
| Mining.. | 619.7 | 662.1 | 666.3 | 667.2 | 667.4 | 667.8 | 675.0 | 677.9 | 683.2 | 684.0 | 689.7 | 690.9 | 700.6 | 709.6 | 719.9 |
| Oil and gas extraction. | 134.5 | 146.0 | 146.3 | 147.0 | 147.3 | 148.9 | 152.3 | 153.1 | 154.5 | 153.8 | 155.2 | 154.2 | 158.3 | 160.5 | 162.8 |
| Mining, except oil and gas | 220.3 | 224.5 | 225.4 | 226.4 | 226.7 | 226.9 | 226.0 | 225.2 | 227.0 | 225.7 | 226.2 | 225.8 | 229.6 | 230.4 | 231.7 |
| Coal mining... | 78.0 | 77.6 | 77.4 | 77.6 | 78.0 | 78.1 | 78.7296.7 | 78.3 | 78.6301.7 | 78.7 | 79.2 | 79.3 | 80.5 | 80.8 | $\begin{array}{r} 80.7 \\ 325.4 \end{array}$ |
| Support activities for mining | 264.9 | $\begin{aligned} & 291.6 \\ & 7,614 \end{aligned}$ | 294.6 | $\begin{array}{\|r\|} \hline 293.8 \\ 7,605 \\ \hline \end{array}$ | $\begin{aligned} & 293.4 \\ & 7,589 \end{aligned}$ | $\begin{array}{\|l\|} \hline 292.0 \\ 7,577 \\ \hline \end{array}$ |  | 299.67,465 |  | $\begin{aligned} & 304.5 \\ & 7,382 \end{aligned}$ | 308.3 | 310.9 | 312.7 | 318.77,197 |  |
| Construction... | 7,691 |  | 7,632 |  |  |  | $\begin{aligned} & 296.7 \\ & 7,520 \end{aligned}$ |  | $\begin{aligned} & 301.7 \\ & 7,426 \end{aligned}$ |  | 7,343$1,668.2$ | 7,284$1,648.2$ | 7,246$1,634.9$ |  | $7,175$ |
| Construction of buildings.. | $\begin{array}{r} 1,804.9 \\ 985.1 \end{array}$ | 1,761.0 | 1,765.3 | $\begin{array}{r} 1,751.2 \\ 999.0 \end{array}$ | $\begin{array}{r} 1,749.4 \\ 998.8 \end{array}$ | $\begin{array}{r} 1,736.6 \\ 999.5 \end{array}$ | 1,716.4 | 1,702.4 | 7,426 $1,690.2$ | $1,673.0$ |  |  |  | $\begin{array}{r} 7,197 \\ 1,623.9 \end{array}$ | $\begin{array}{r} 1,622.8 \\ 958.6 \\ 4,593.6 \end{array}$ |
| Heavy and civil engineering |  | 1,001.2 | 1,002.3 |  |  |  | 999.0 | 993.8 | $\begin{array}{r} 984.6 \\ 4,750.8 \end{array}$ | $\begin{array}{r} 977.6 \\ 4,731.8 \end{array}$ | $\begin{array}{r} 1,668.2 \\ 976.9 \\ 4,697.5 \end{array}$ | $\begin{array}{r} 1,648.2 \\ 967.4 \\ 4,668.0 \end{array}$ | $\begin{array}{\|r\|} 1,634.9 \\ 965.3 \\ 4,645.6 \end{array}$ | $\begin{array}{r} 1,623.9 \\ 959.9 \\ 4,613.3 \end{array}$ |  |
| Speciality trade contractors. | 4,901.1 | 4,851.9 | 4,863.9 | 4,854.7 | 4,840.3 | 4,841.3 | 4,804.8 | 4,768.4 |  |  |  |  |  |  |  |
| Manufacturing.................. | 14,155 | 13,884 | 13,8849,985 | 13,844 | 13,822 | 13,797 | 13,794 | 13,772 | 13,737 | 13,690 | 13,644 | 13,592 | 13,571 | 13,536 | $4,593.6$ 13,501 |
| Production workers. | 10,137 | 9,979 |  | 9,956 <br> 8,792 | 9,958 | 9,934 | 9,944 | 9,933 | 9,922 | 9,879 | 9,847 | 9,799 | 9,784 | 9,749 | 9,731 |
| Durable goods. | $\begin{aligned} & 8,981 \\ & 6,355 \end{aligned}$ | 8,816 | 8,817 |  | 8,778 | 8,761 | 8,763 | 8,739 | 8,718 | 8,685 | 8,652 | 8,607 | $\begin{aligned} & 8,594 \\ & 6,100 \end{aligned}$ |  | $\begin{aligned} & 8,558 \\ & 6,070 \end{aligned}$ |
| Production workers. |  | 6,257 | 6,258 | 6,239 | 6,245 | 6,232 | 6,242 | 6,220 | 6,214 | 6,182 | 6,152 | 6,112 |  | $6,078$ |  |
| Wood products. | $\begin{aligned} & 558.8 \\ & 509.6 \end{aligned}$ | 519.7 | 523.4 | 518.5 | 513.1 | 511.8 | 509.0 | 507.2 | 503.5 | 498.6 | 492.9 | 490.9 | 482.4 | 477.6 | 473.7 |
| Nonmetallic mineral products |  | 503.4 | 504.4 | 501.2 | 501.0 | 500.9 | 499.5 | 496.4 | 494.4 | 492.2 | 487.7 | 486.3 | 482.1 | 479.6 | 477.5 |
| Primary metals. | 464.0 | 456.0 | 456.4 | 452.7 | 451.6 | 451.5 | 452.6 | 452.2 | 452.3 | 451.4 | 451.3 | 450.1 | 448.7 | 448.1 | 447.4 |
| Fabricated metal products | 1,553.1 | 1,563.3 | 1,564.2 | 1,562.8 | 1,565.0 | 1,568.0 | 1,565.6 | 1,562.7 | 1,560.9 | 1,557.1 | 1,556.9 | 1,544.1 | 1,544.2 | 1,539.2 | 1,537.4 |
| Machinery...................... | 1,183.2 | 1,188.2 | 1,192.5 | 1,187.5 | 1,186.2 | 1,189.0 | 1,189.9 | 1,191.0 | 1,193.8 | 1,191.7 | 1,195.1 | 1,193.1 | 1,195.1 | 1,195.6 | 1,201.7 |
| Computer and electronic products ${ }^{1}$ | 1,307.5 | 1,271.9 | 1,268.3 | 1,265.6 | 1,260.5 | 1,256.5 | 1,260.5 | 1,257.6 | 1,256.3 | 1,251.9 | 1,254.1 | 1,253.8 | 1,250.1 | 1,246.1 | 1,243.6 |
| Computer and peripheral |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| equipment. | 196.2 | 186.9 | 186.2 | 186.1 | 185.9 | 185.1 | 185.5 | 185.4 | 184.9 | 185.9 | 186.0 | 186.7 | 186.2 | 184.3 | 185.6 |
| Communications equipment | 136.2 | 128.6 | 127.5 | 128.5 | 128.5 | 128.1 | 129.5 | 129.0 | 129.5 | 128.7 | 129.4 | 130.9 | 130.4 | 131.5 | 129.6 |
| Semiconductors and electronic components | 457.9 | 444.5 | 443.7 | 439.9 | 437.4 | 435.8 | 437.0 | 434.9 | 433.5 | 429.7 | 428.7 | 426.7 | 424.2 | 422.1 | 421.9 |
| Electronic instruments. | 444.5 | 444.0 | 443.1 | 442.5 | 442.0 | 441.9 | 443.0 | 443.7 | 444.3 | 442.9 | 446.2 | 445.7 | 445.6 | 444.6 | 443.4 |
| Electrical equipment and appliances. | 432.7 | 427.2 | 427.7 | 426.1 | 426.0 | 427.2 | 426.6 | 423.8 | 421.6 | 420.8 | 419.9 | 421.5 | 422.1 | 422.7 | 423.5 |
| Transportation equipment | 1,768.9 | 1,710.9 | 1,704.7 | 1,705.7 | 1,706.1 | 1,689.3 | 1,693.5 | 1,684.7 | 1,678.1 | 1,672.0 | 1,651.1 | 1,630.6 | 1,636.8 | 1,637.1 | 1,628.8 |
| Furniture and related products. | 0.1 | 34.5 | 536.1 | 533.0 | 30.6 | 528.3 | 527.0 | 523.8 | 520.4 | 516.0 | 511.2 | 506.4 | 503.5 | 501.6 | 499.3 |
| Miscellaneous manufacturing | 643.7 | 641.0 | 639.5 | 638.8 | 637.6 | 638.2 | 638.8 | 639.9 | 636.4 | 633.3 | 632.0 | 630.2 | 629.1 | 627.0 | 624.9 |
| Nondurable goods. | 5,174 | 5,068 | 5,067 | 5,052 | 5,044 | 5,036 | 5,031 | 5,033 | 5,019 | 5,005 | 4,992 | 4,985 | 4,977 | 4,961 | 4,943 |
| Production workers | 3,782 | 3,723 | 3,727 | 3,717 | 3,713 | 3,702 | 3,702 | 3,713 | 3,708 | 3,697 | 3,695 | 3,687 | 3,684 | 3,671 | 3,661 |
| Food manufacturing. | 1,479.4 | 1,481.3 | 1,488.8 | 1,480.6 | 1,476.0 | 1,478.6 | 1,477.9 | 1,486.3 | 1,483.2 | 1,482.7 | 1,477.0 | 1,473.8 | 1,473.5 | 1,471.8 | 1,467.6 |
| Beverages and tobacco products. | 194.2 | 195.7 | 197.0 | 196.1 | 195.7 | 195.2 | 194.3 | 192.0 | 191.1 | 189.3 | 190.8 | 193.3 | 193.7 | 193.0 | 193.0 |
| Textile mills.. | 195.0 | 169.9 | 168.1 | 166.4 | 164.8 | 164.9 | 164.9 | 163.0 | 162.0 | 161.4 | 158.7 | 156.4 | 155.1 | 152.0 | 149.4 |
| Textile produc | 166.7 | 158.4 | 157.1 | 156.9 | 156.3 | 155.9 | 157.2 | 155.7 | 154.0 | 153.0 | 153.3 | 152.2 | 151.0 | 149.2 | 148.0 |
| Apparel... | 232.4 | 213.0 | 212.8 | 211.3 | 209.2 | 206.8 | 206.4 | 204.8 | 202.0 | 200.6 | 198.1 | 198.0 | 196.6 | 195.5 | 194.4 |
| Leather and allied products. | 36.8 | 33.9 | 33.1 | 33.3 | 34.0 | 33.7 | 34.1 | 33.7 | 34.5 | 33.5 | 33.5 | 33.9 | 33.7 | 34.3 | 33.4 |
| Paper and paper products. | 470.5 | 460.6 | 459.8 | 459.1 | 459.0 | 459.2 | 458.6 | 460.3 | 459.0 | 457.8 | 457.9 | 458.4 | 458.1 | 456.8 | 456.6 |
| Printing and related support activities. | 634.4 | 624.2 | 623.3 | 621.0 | 623.0 | 622.2 | 622.0 | 619.5 | 620.1 | 614.6 | 614.2 | 611.7 | 607.3 | 601.7 | 598.5 |
| Petroleum and coal products. | 113.2 | 113.4 | 112.5 | 112.5 | 112.9 | 112.6 | 112.1 | 111.7 | 112.2 | 112.5 | 112.2 | 112.2 | 113.4 | 114.0 | 114.6 |
| Chemicals.. | 865.9 | 862.9 | 862.5 | 864.2 | 864.3 | 860.7 | 860.5 | 862.0 | 861.2 | 861.0 | 860.5 | 861.3 | 861.6 | 861.3 | 859.2 |
| Plastics and rubber products.. | 785.5 | 754.0 | 752.4 | 750.2 | 748.4 | 745.9 | 743.0 | 744.2 | 739.7 | 738.7 | 735.6 | 734.1 | 732.8 | 731.1 | 728.2 |
| SERVICE-PROVIDING.. | 113,556 | 115,402 | 115,440 | 115,580 | 115,699 | 115,876 | 115,988 | 116,102 | 116,095 | 116,103 | 116,094 | 116,136 | 116,140 | 116,166 | 116,161 |
| PRIVATE SERVICEPROVIDING | 91,582 | 93,199 | 93,270 | 93,368 | 93,472 | 93,614 | 93,710 | 93,769 | 93,759 | 93,741 | 93,717 | 93,735 | 93,687 | 93,670 | 93,640 |
| Trade, transportation, and utilities. $\qquad$ | 26,276 | 26,608 | 26,617 | 26,640 | 26,649 | 26,644 | 26,693 | 26,658 | 26,631 | 26,579 | 26,552 | 26,496 | 26,451 | 26,436 | 26,397 |
| Wholesale trade. | 5,904.5 | 6,028.3 | 6,040.7 | 6,047.1 | 6,055.6 | 6,069.8 | 6,075.0 | 6,072.9 | 6,067.3 | 6,057.6 | 6,054.3 | 6,043.9 | 6,038.4 | 6,035.3 | 6,018.4 |
| Durable goods. | 3,074.8 | 3,130.7 | 3,140.2 | 3,141.9 | 3,143.4 | 3,147.4 | 3,152.4 | 3,145.0 | 3,138.0 | 3,127.3 | 3,127.8 | 3,118.1 | 3,109.8 | 3,105.4 | 3,097.3 |
| Nondurable goods... | 2,041.3 | 2,069.3 | 2,069.2 | 2,072.7 | 2,078.5 | 2,086.5 | 2,086.6 | 2,089.3 | 2,090.9 | 2,088.4 | 2,087.5 | 2,086.9 | 2,089.3 | 2,088.0 | 2,078.7 |
| Electronic markets and agents and brokers.. | 788.5 | 828.4 | 831.3 | 832.5 | 833.7 | 835.9 | 836.0 | 838.6 | 838.4 | 841.9 | 839.0 | 838.9 | 839.3 | 841.9 | 842.4 |
| Retail trade.... | 15,353.3 | 15,490.7 | 15,489.1 | 15,502.3 | 15,487.3 | 15,469.1 | 15,513.1 | 15,487.8 | 15,472.2 | 15,428.8 | 15,401.4 | 15,355.7 | 15,331.8 | 15,325.5 | 15,309.0 |
| Motor vehicles and parts |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dealers ${ }^{1}$. | 1,909.7 | 1,913.1 | 1,911.9 | 1,914.7 | 1,916.0 | 1,911.9 | 1,911.0 | 1,909.3 | 1,910.2 | 1,905.1 | 1,901.5 | 1,897.6 | 1,892.9 | 1,885.6 | 1,875.0 |
| Automobile dealers. | 1,246.7 | 1,245.3 | 1,244.7 | 1,245.6 | 1,246.6 | 1,247.4 | 1,244.9 | 1,244.6 | 1,244.0 | 1,236.2 | 1,233.7 | 1,228.8 | 1,224.2 | 1,217.4 | 1,209.0 |
| Furniture and home furnishings stores. | 586.9 | 581.0 | 577.7 | 579.2 | 576.2 | 577.3 | 584.9 | 584.5 | 579.9 | 575.9 | 570.6 | 569.0 | 568.5 | 568.2 | 567.9 |
| Electronics and appliance stores. $\qquad$ | 541.1 | 543.7 | 545.0 | 542.7 | 540.1 | 537.1 | 542.6 | 540.4 | 534.3 | 533.6 | 535.0 | 534.7 | 539.3 | 535.8 | 536.9 | See notes at end of table.

12. Continued-Employment of workers on nonfarm payrolls by industry, monthly data seasonally adjusted [In thousands]

| Industry | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June ${ }^{\text {p }}$ | July ${ }^{\text {p }}$ |
| Building material and garden supply stores. <br> Food and beverage stores.... | $\begin{aligned} & 1,324.1 \\ & 2,821.1 \end{aligned}$ | $\begin{aligned} & 1,305.3 \\ & 2,848.5 \end{aligned}$ | $\begin{aligned} & 1,307.3 \\ & 2,847.1 \end{aligned}$ | $\begin{aligned} & 1,315.6 \\ & 2,852.2 \end{aligned}$ | $\begin{aligned} & 1,291.9 \\ & 2,856.0 \end{aligned}$ | $\begin{aligned} & 1,285.4 \\ & 2,859.6 \end{aligned}$ | $\begin{aligned} & 1,279.9 \\ & 2,871.9 \end{aligned}$ | $\begin{aligned} & 1,271.6 \\ & 2,871.9 \end{aligned}$ | $\begin{aligned} & 1,266.0 \\ & 2,880.1 \end{aligned}$ | $\begin{aligned} & 1,258.5 \\ & 2,885.7 \end{aligned}$ | $\begin{aligned} & 1,250.8 \\ & 2,890.1 \end{aligned}$ | $\begin{aligned} & 1,240.5 \\ & 2,882.4 \end{aligned}$ | $\begin{aligned} & 1,240.3 \\ & 2,880.7 \end{aligned}$ | $\begin{aligned} & 1,236.1 \\ & 2,881.6 \end{aligned}$ | $\begin{aligned} & 1,230.6 \\ & 2,882.3 \end{aligned}$ |
| Health and personal care stores. Gasoline stations........... | $\begin{aligned} & 961.1 \\ & 864.1 \end{aligned}$ | 988.6 861.2 | 985.6 861.5 | 989.4 860.8 | 990.1 864.2 | 991.0 862.0 | 998.6 859.1 | 999.9 850.5 | $1,000.6$ 853.8 | 993.5 854.2 | 993.9 852.6 | 993.4 847.4 | 990.9 841.2 | $\begin{aligned} & 990.7 \\ & 844.9 \end{aligned}$ | 988.6 844.2 |
| Clothing and clothing accessories stores. | 1,450.9 | 1,500.4 | 1,496.7 | 1,501.5 | 1,502.4 | 1,500.9 | 1,524.5 | 1,508.6 | 1,498.2 | 1,496.3 | 1,498.9 | 1,495.4 | 1,494.5 | 1,496.2 | 1,496.9 |
| Sporting goods, hobby, book, and music stores. | $\begin{array}{r} 645.5 \\ 2,935.0 \end{array}$ | 658.2 | 660.5 | $\begin{array}{r} 661.8 \\ 2,978.9 \end{array}$ | $\begin{array}{r} 665.1 \\ 2,976.5 \end{array}$ | $\begin{array}{r} 664.0 \\ 2,975.8 \end{array}$ | $\begin{array}{r} 664.0 \\ 2,968.2 \end{array}$ | $\begin{array}{r} 661.6 \\ 2,976.7 \end{array}$ | $\begin{array}{r} 667.2 \\ 2,971.1 \end{array}$ | 2,955.7 | $\begin{array}{r} 658.6 \\ 2,943.9 \end{array}$ | $\begin{array}{r} 651.5 \\ 2,939.0 \end{array}$ | $\begin{array}{r} 653.2 \\ 2,928.5 \end{array}$ | 651.1 | 648.2$2,943.2$ |
| General merchandise stor |  | 2,984.6 | 2,987.0 |  |  |  |  |  |  |  |  |  |  |  |  |
| Department stores... | 1,557.2 | 1,576.7 | 1,580.1 | 1,573.0 | 1,570.5 | 1,568.5 | 1,560.6 | 1,568.4 | 1,564.3 | 1,543.3 | 1,534.3 | 1,528.1 | 1,514.7 | 1,514.2 | 1,512.0 |
| Miscellaneous store retailers. | 881.0432.8 | 868.7437.6 | $\begin{aligned} & 871.3 \\ & 437.5 \end{aligned}$ | $\begin{aligned} & 869.7 \\ & 435.8 \end{aligned}$ | $\begin{aligned} & 873.3 \\ & 435.5 \end{aligned}$ | $\begin{aligned} & 869.0 \\ & 435.1 \end{aligned}$ | $\begin{aligned} & 868.3 \\ & 440.1 \end{aligned}$ | $\begin{aligned} & 866.3 \\ & 446.5 \end{aligned}$ | $\begin{aligned} & 869.4 \\ & 441.4 \end{aligned}$ | $\begin{aligned} & 865.3 \\ & 443.1 \end{aligned}$ | $\begin{aligned} & 862.8 \\ & 442.7 \end{aligned}$ | $\begin{aligned} & 863.3 \\ & 441.5 \end{aligned}$ | $\begin{aligned} & 860.8 \\ & 441.0 \end{aligned}$ | $\begin{aligned} & 858.6 \\ & 437.4 \end{aligned}$ | $\begin{aligned} & 859.2 \\ & 436.0 \end{aligned}$ |
| Nonstore retailers.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Transportation and warehousing. $\qquad$ | 4,469.6 | 4,536.0 | 4,533.0 | 4,535.4 | 4,551.2 | 4,548.7 | 4,549.0 | 4,539.9 | 4,534.5 | 4,535.5 | 4,537.7 | 4,538.3 | 4,524.1 | 4,517.7 | $\begin{array}{r} 4,511.9 \\ 498.5 \end{array}$ |
| Air transportation.... | 487.0227.562.7$1,435.8$ | 492.6 | 493.4 | 494.6 | 494.5 | 495.2 | 503.0 | 502.1 |  | $\begin{aligned} & 508.2 \\ & 233.7 \end{aligned}$ | $\begin{aligned} & 507.5 \\ & 233.7 \end{aligned}$ | 504.5 | 501.3 | $\begin{aligned} & 499.4 \\ & 233.0 \end{aligned}$ |  |
| Rail transportation |  | 234.4 | 234.4 | 234.4 | 234.6 | 234.0 | 233.8 | 232.5 | 233.8 |  |  | 233.5 | 233.0 |  | $\begin{aligned} & 498.5 \\ & 234.4 \end{aligned}$ |
| Water transportation. |  | 64.3$1,441.2$ | 65.0$1,437.4$ | r 65.1 | $\begin{array}{r} 65.0 \\ 1,440.6 \end{array}$ | 64.9$1,433.6$ | 65.0$1,428.7$ | $\begin{array}{r} 64.4 \\ 1,423.1 \end{array}$ | 63.8$1,422.5$ | 62.5$1,417.4$ | $\begin{array}{r} 61.6 \\ 1,420.4 \end{array}$ | 1,415.2 | 61.3$1,409.8$ | 61.8$1,399.2$ | $\begin{array}{r} 61.1 \\ 1,394.1 \end{array}$ |
| Truck transportation.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Transit and ground passenger transportation. | $\begin{array}{r} 399.3 \\ 38.7 \end{array}$ |  |  |  | $\begin{array}{r} 417.8 \\ 40.1 \end{array}$ | $\begin{array}{r} 417.4 \\ 40.3 \end{array}$ | $\begin{array}{r} 411.5 \\ 40.6 \end{array}$ | $\begin{array}{r} 411.8 \\ 40.8 \end{array}$ | 411.940.6 | 413.540.9 | 412.941.2 | 418.3 | 412.9 | $\begin{array}{r} 416.8 \\ 42.7 \end{array}$ | 415.643.2 |
| Pipeline transportation........... |  |  |  |  |  |  |  |  |  |  |  | 41.3 | 42.2 |  |  |
| Scenic and sightseeing transportation. | 27.5 | 29.4 | 28.9 | 29.3 | 29.8 | 30.3 | 30.9 | 31.3 | 31.0 | 31.5 | 31.7 | 31.3 | 31.1 | 31.0 | 30.6 |
| Support activities for transportation. | 570.6 | 582.9 | 583.7 | 583.7 | 586.5 | 589.9 | 589.2 | 587.1 | 584.9 |  |  |  | 587.1 | 586.6 | 586.9 |
| Couriers and messengers | 582.4 | 582.5 | 80.1 | 579.2 | 580.3 | 577.9 | 584.4 | 588.1 | 585.5 | 586.0 | 585.3 | 585.0 | 587.2 | 588.1 | 588.8 |
| Warehousing and storage. | 638.1 | 658.7 | 659.1 | 657.5 | 662.0 | 665.2 | 661.9 | 658.7 | 655.8 | 655.9 | 657.1 | 658.7 | 658.2 | 659.1 | 658.7 |
| Utilities... | 548.5 | 553.4 | 554.3 | 555.1 | 554.8 | 556.1 | 555.5 | 557.1 | 557.1 | 557.0 | 558.2 | 557.7 | 557.1 | 557.6 | 557.8 |
| Information.... | 902.4 | 3,029 | 3,027 | 3,024 | 3,031 | 3,027 | 3,022 | 3,018 | 3,014 | 3,016 | 3,013 | 3,007 | 3,002 | 2,996 | 2,983 |
| Publishing industries, except Internet. |  | 898.2 | 898.7 | 897.0 | 893.7 | 894.6 | 892.2 |  |  |  |  |  |  | 877.0 | 873.6 |
| Motion picture and sound recording industries. | 375.7 | 380.0 | 377.9 | 376.3 | 384.3 | 380.5 | 376.3 | 376.3 | 372.9 | 380.1 | 383.0 | 382.5 | 380.9 | 380.2 | 375.5 |
| Broadcasting, except Intern | 328.3 | 326.4 | 325.1 | 325.2 | 327.0 | 324.8 | 325.0 | 321.9 | 323.0 | 322.1 | 322.5 | 320.8 | 321.2 | 319.8 | 320.2 |
| Internet publishing and broadcasting. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Telecommunications... | 1,047.6 | 1,028.3 | 1,026.6 | 1,025.1 | 1,024.4 | 1,023.6 | 1,026.4 | 1,026.8 | 1,025.3 | 1,022.0 | 1,020.1 | 1,018.0 | 1,017.7 | 1,018.1 | 1,012.9 |
| ISPs, search portals, and data processing. | 263.2 | 270.5 | 272.8 | 272.3 | 273.1 | 273.2 | 272.6 | 273.5 | 273.0 | 274.2 | 272.3 | 272.2 | 272.1 | 271.3 | 270.5 |
| Other information services | . 8 | 5.7 | 6.3 | 7.6 | 28.8 | 30.0 | 129.5 | 129.3 | 130.5 | 131.2 | 131.9 | 130.7 | 130.1 | 130.0 | 130.2 |
| Financial activities. | 8,328 | 8,308 | 8,331 | 8,312 | 8,294 | 8,283 | 8,260 | 8,252 | 8,244 | 8,231 | 8,231 | 8,229 | 8,226 | 8,213 | 8,213 |
| Finance and insurance. | 6,156.0 | 6,146.6 | 6,165.8 | 6,148.4 | 6,136.0 | 6,124.5 | 6,115.5 | 6,111.2 | 6,106.2 | 6,102.2 | 6,103.4 | 6,103.8 | 6,098.8 | 6,086.7 | 6,084.6 |
| Monetary authoritiescentral bank............ | 21.2 | 21.1 | 20.8 | 21.1 | 20.9 | 20.8 | 20.7 | 20.7 | 20.7 | 20.9 | 20.9 | 21.1 | 21.0 | 20.9 | 20.9 |
| Credit intermediation and related activities ${ }^{1}$. $\qquad$ | 2,924.9 | 2,881.6 | 2,892.3 | 2,870.4 | 2,856.7 | 2,844.8 | 2,834.3 | 2,829.2 | 2,825.0 | 2,820.4 | 2,811.8 | 2,807.9 | 2,800.5 | 2,792.3 | 2,788.5 |
| Depository credit |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| intermediation ${ }^{1}$. | 1,802.0 | 1,822.5 | 1,823.8 | 1,825.8 | 1,831.0 | 1,829.3 | 1,823.4 | 1,824.6 | 1,821.5 | 1,823.3 | 1,821.6 | 1,822.9 | 1,820.6 | 1,818.4 | 1,817.3 |
| Commercial banking. | 1,322.9 | 1,345.8 | 1,346.7 | 1,347.3 | 1,350.1 | 1,350.1 | 1,344.7 | 1,345.9 | 1,342.2 | 1,344.9 | 1,343.4 | 1,344.2 | 1,343.4 | 1,343.2 | 1,342.5 |
| Securities, commodity contracts, investments | 818.3 | 847.9 | 851.2 | 852.6 | 853.2 | 855.0 | 856.9 | 856.7 | 859.2 | 862.5 | 865.8 | 867.2 | 866.6 | 866.2 | 865.2 |
| Insurance carriers and related activities. | 2,303.7 | 2,308.1 | 2,314.2 | 2,315.4 | 2,317.0 | 2,315.3 | 2,315.6 | 2,316.8 | 2,313.9 | 2,311.1 | 2,318.4 | 2,319.7 | 2,323.2 | 2,319.5 | 2,322.3 |
| Funds, trusts, and other financial vehicles. | 87.9 | 87.8 | 87.3 | 88.9 | 88.2 | 88.6 | 88.0 | 87.8 | 87.4 | 87.3 | 86.5 | 87.9 | 87.5 | 87.8 | 87.7 |
| Real estate and rental and leasing $\qquad$ | 2,172.5 | 2,161.7 | 2,165.4 | 2,163.3 | 2,157.7 | 2,158.6 | 2,144.7 | 2,140.6 | 2,138.0 | 2,128.6 | 2,127.8 | 2,124.9 | 2,127.3 | 2,126.2 | 2,128.5 |
| Real estate... | 1,499.0 | 1,491.9 | 1,493.8 | 1,493.9 | 1,489.8 | 1,489.1 | 1,477.1 | 1,476.4 | 1,471.4 | 1,466.0 | 1,465.0 | 1,465.7 | 1,466.4 | 1,465.7 | 1,463.3 |
| Rental and leasing services | 645.5 | 640.3 | 641.4 | 638.9 | 637.8 | 639.7 | 637.4 | 633.6 | 635.2 | 631.0 | 631.1 | 627.4 | 629.5 | 628.6 | 632.8 |
| Lessors of nonfinancial intangible assets............ | 28.1 | 29.5 | 30.2 | 30.5 | 30.1 | 29.8 | 30.2 | 30.6 | 31.4 | 31.6 | 31.7 | 31.8 | 31.4 | 31.9 | 32.4 |
| Professional and business services $\qquad$ | 17,566 | 17,962 | 17,958 | 17,979 | 18,000 | 18,070 | 18,079 | 18,131 | 18,101 | 18,073 | 18,014 | 18,031 | 17,982 | 17,943 | 17,919 |
| Professional and technical |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| services ${ }^{1}$. | 7,356.7 | 7,662.0 | 7,664.2 | 7,688.0 | 7,729.7 | 7,759.3 | 7,784.8 | 7,820.5 | 7,819.2 | 7,829.2 | 7,823.5 | 7,845.6 | 7,839.1 | 7,856.3 | 7,866.8 |
| Legal services. | 1,173.2 | 1,176.4 | 1,173.7 | 1,174.2 | 1,178.6 | 1,179.7 | 1,175.2 | 1,173.9 | 1,173.0 | 1,174.9 | 1,172.6 | 1,172.5 | 1,172.2 | 1,172.7 | 1,173.3 |
| Accounting and bookkeeping services.. | 889.0 | 947.2 | 947.8 | 954.0 | 964.5 | 971.3 | 979.4 | 993.3 | 992.3 | 991.9 | 983.3 | 986.1 | 973.8 | 977.5 | 977.8 |
| Architectural and engineering services. | 1,385.7 | 1,436.0 | 1,436.5 | 1,439.0 | 1,443.2 | 1,451.1 | 1,453.9 | 1,460.4 | 1,460.5 | 1,463.0 | 1,461.8 | 1,464.9 | 1,464.9 | 1,469.3 | 1,471.4 |

## 12. Continued-Employment of workers on nonfarm payrolls by industry, monthly data seasonally adjusted

 [In thousands]| Industry | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June ${ }^{\text {p }}$ | July ${ }^{\text {p }}$ |
| Computer systems design and related services. | 1,284.6 | 1,359.8 | 1,366.8 | 1,371.2 | 1,375.5 | 1,380.0 | 1,387.5 | 1,391.4 | 1,391.6 | 1,393.5 | 1,391.3 | 1,403.9 | 1,408.9 | 1,412.2 | 1,419.3 |
| Management and technical consulting services. | 886.4 | 952.8 | 946.6 | 956.3 | 967.2 | 974.8 | 985.1 | 994.3 | 989.2 | 992.7 | 997.0 | 1,001.3 | 1,006.9 | 1,015.2 | 1,019.3 |
| Management of companies and enterprises. | 1,810.9 | 1,846.0 | 1,845.0 | 1,849.2 | 1,854.7 | 1,860.9 | 1,850.0 | 1,847.8 | 1,845.5 | 1,844.7 | 1,839.7 | 1,841.0 | 1,836.4 | 1,836.8 | 1,832.8 |
| Administrative and waste services. | 8,398.3 | 8,453.6 | 8,448.6 | 8,441.3 | 8,415.3 | 8,449.6 | 8,444.1 | 8,462.8 | 8,436.2 | 8,398.6 | 8,351.2 | 8,344.4 | 8,306.0 | 8,250.0 | 8,219.6 |
| Administrative and support |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| services ${ }^{1}$. | 8,050.2 | 8,096.7 | 8,092.2 | 8,083.4 | 8,057.4 | 8,092.2 | 8,081.4 | 8,099.3 | 8,070.8 | 8,036.1 | 7,987.3 | 7,978.9 | 7,939.8 | 7,883.9 | 7,853.4 |
| Employment services ${ }^{1}$ | 3,680.9 | 3,600.9 | 3,584.6 | 3,570.2 | 3,533.0 | 3,567.7 | 3,563.9 | 3,566.9 | 3,562.1 | 3,531.6 | 3,483.7 | 3,462.2 | 3,421.8 | 3,366.2 | 3,332.0 |
| Temporary help services | 2,637.4 | 2,605.1 | 2,596.5 | 2,589.4 | 2,565.1 | 2,592.0 | 2,583.7 | 2,578.5 | 2,574.6 | 2,536.8 | 2,506.0 | 2,487.1 | 2,451.6 | 2,418.6 | 2,389.6 |
| Business support services.... Services to buildings | 792.9 | 805.5 | 805.5 | 803.8 | 802.7 | 798.5 | 798.9 | 803.7 | 797.4 | 796.6 | 794.1 | 792.8 | 789.2 | 786.9 | 786.3 |
| and dwelling | 1,801.4 | 1,851.2 | 1,854.9 | 1,858.0 | 1,863.2 | 1,866.3 | 1,861.1 | 1,872.0 | 1,861.3 | 1,859.7 | 1,857.3 | 1,864.6 | 1,865.9 | 1,869.3 | 1,867.9 |
| Waste management and remediation services.. | 348.1 | 356.9 | 356.4 | 357.9 | 357.9 | 357.4 | 362.7 | 363.5 | 365.4 | 362.5 | 363.9 | 365.5 | 366.2 | 366.1 | 366.2 |
| Educational and health |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| services. | 17,826 | 18,327 | 18,360 | 18,422 | 18,451 | 18,490 | 18,522 | 18,568 | 18,617 | 18,665 | 18,709 | 18,757 | 18,820 | 18,875 | 18,914 |
| Educational services. | 2,900.9 | 2,949.1 | 2,962.7 | 2,981.3 | 2,967.7 | 2,974.9 | 2,975.5 | 2,984.5 | 3,003.4 | 3,009.6 | 3,018.6 | 3,030.5 | 3,047.3 | 3,080.8 | 3,086.1 |
| Health care and social assistance. | 14,925.3 | 15,377.6 | 15,396.8 | 15,440.8 | 15,483.0 | 15,515.1 | 15,546.7 | 15,583.2 | 15,613.6 | 15,655.0 | 15,690.5 | 15,726.1 | 15,772.4 | 15,794.0 | 15,828.3 |
| Ambulatory health care |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| services ${ }^{1}$. | 5,285.8 | 5,477.1 | 5,484.7 | 5,504.4 | 5,523.1 | 5,547.3 | 5,554.8 | 5,566.0 | 5,581.7 | 5,600.0 | 5,612.5 | 5,632.8 | 5,649.9 | 5,667.3 | 5,688.5 |
| Offices of physicians. | 2,147.8 | 2,204.0 | 2,204.7 | 2,211.7 | 2,219.1 | 2,226.1 | 2,232.2 | 2,235.6 | 2,240.8 | 2,248.2 | 2,251.7 | 2,259.6 | 2,265.2 | 2,272.8 | 2,279.3 |
| Outpatient care centers. | 492.6 | 507.1 | 505.0 | 507.2 | 509.3 | 511.4 | 511.0 | 513.0 | 511.5 | 512.0 | 511.9 | 514.9 | 516.6 | 516.8 | 520.6 |
| Home health care services | 865.6 | 913.3 | 917.7 | 923.0 | 925.2 | 930.3 | 929.1 | 930.9 | 934.7 | 939.5 | 943.3 | 946.1 | 951.0 | 954.6 | 959.6 |
| Hospitals.................. | 4,423.4 | 4,517.3 | 4,524.2 | 4,533.4 | 4,541.6 | 4,549.7 | 4,558.8 | 4,572.4 | 4,579.3 | 4,592.8 | 4,606.4 | 4,616.2 | 4,635.0 | 4,640.2 | 4,650.6 |
| Nursing and residential |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| care facilities ${ }^{1}$. | 2,892.5 | 2,952.0 | 2,954.9 | 2,960.0 | 2,962.8 | 2,963.1 | 2,967.5 | 2,971.2 | 2,974.6 | 2,979.9 | 2,983.4 | 2,987.3 | 2,989.8 | 2,991.5 | 2,992.8 |
| Nursing care facilities. | 1,581.4 | 1,600.8 | 1,602.2 | 1,604.8 | 1,604.3 | 1,603.1 | 1,605.9 | 1,608.2 | 1,608.8 | 1,613.3 | 1,609.6 | 1,610.7 | 1,612.1 | 1,611.7 | 1,611.8 |
| Social assistance ${ }^{1}$. | 2,323.5 | 2,431.2 | 2,433.0 | 2,443.0 | 2,455.5 | 2,455.0 | 2,465.6 | 2,473.6 | 2,478.0 | 2,482.3 | 2,488.2 | 2,489.8 | 2,497.7 | 2,495.0 | 2,496.4 |
| Child day care services.. | 818.3 | 849.2 | 847.7 | 850.7 | 857.4 | 853.3 | 856.7 | 857.1 | 859.2 | 858.6 | 861.8 | 858.1 | 860.2 | 850.5 | 845.5 |
| Leisure and hospitality..... | 13,110 | 13,474 | 13,476 | 13,494 | 13,552 | 13,604 | 13,628 | 13,635 | 13,644 | 13,660 | 13,676 | 13,690 | 13,679 | 13,686 | 13,687 |
| Arts, entertainment, and recreation. | 1,928.5 | 1,977.5 | 1,968.8 | 1,970.5 | 1,985.3 | 1,996.4 | 2,001.4 | 2,010.3 | 2,016.1 | 2,019.1 | 2,025.7 | 2,021.1 | 2,013.1 | 2,008.2 | 2,005.5 |
| Performing arts and spectator sports.. | 398.5 | 412.4 | 405.8 | 409.2 | 414.3 | 419.0 | 426.4 | 429.9 | 429.5 | 431.0 | 433.9 | 436.4 | 434.7 | 436.8 | 434.9 |
| Museums, historical sites, zoos, and parks. | 123.8 | 130.2 | 131.9 | 131.1 | 131.6 | 131.9 | 131.6 | 131.5 | 132.6 | 131.7 | 133.4 | 132.6 | 133.9 | 132.1 | 131.5 |
| Amusements, gambling, and recreation. $\qquad$ | 1,406.3 | 1,434.9 | 1,431.1 | 1,430.2 | 1,439.4 | 1,445.5 | 1,443.4 | 1,448.9 | 1,454.0 | 1,456.4 | 1,458.4 | 1,452.1 | 1,444.5 | 1,439.3 | 1,439.1 |
| Accommodations and food services. | 11,181.1 | 11,496.3 | 11,507.0 | 11,523.6 | 11,567.0 | 11,607.5 | 11,626.8 | 11,624.7 | 11,628.0 | 11,640.7 | 11,650.7 | 11,668.7 | 11,665.8 | 11,677.4 | 11,681.1 |
| Accommodations.. | 1,832.1 | 1,856.4 | 1,853.6 | 1,844.1 | 1,856.4 | 1,863.6 | 1,870.3 | 1,858.1 | 1,854.9 | 1,854.4 | 1,849.4 | 1,853.0 | 1,849.0 | 1,849.2 | 1,849.7 |
| Food services and drinking places. | 9,349.0 | 9,639.9 | 9,653.4 | 9,679.5 | 9,710.6 | 9,743.9 | 9,756.5 | 9,766.6 | 9,773.1 | 9,786.3 | 9,801.3 | 9,815.7 | 9,816.8 | 9,828.2 | 9,831.4 |
| Other services............... | 5,438 | 5,491 | 5,501 | 5,497 | 5,495 | 5,496 | 5,506 | 5,507 | 5,508 | 5,517 | 5,522 | 5,525 | 5,527 | 5,521 | 5,527 |
| Repair and maintenance.. | 1,248.5 | 1,257.0 | 1,257.8 | 1,259.6 | 1,262.5 | 1,260.1 | 1,258.0 | 1,255.5 | 1,252.9 | 1,255.2 | 1,254.8 | 1,254.0 | 1,251.7 | 1,246.1 | 1,245.2 |
| Personal and laundry services | 1,288.4 | 1,305.2 | 1,307.9 | 1,305.7 | 1,304.4 | 1,303.4 | 1,309.7 | 1,306.9 | 1,306.6 | 1,306.4 | 1,308.5 | 1,309.9 | 1,310.6 | 1,312.2 | 1,313.3 |
| Membership associations and organizations. | 2,901.2 | 2,928.8 | 2,935.4 | 2,931.2 | 2,927.6 | 2,932.8 | 2,938.0 | 2,944.4 | 2,948.9 | 2,955.6 | 2,959.0 | 2,961.4 | 2,964.3 | 2,963.1 | 2,968.1 |
| Government. | 21,974 | 22,203 | 22,170 | 22,212 | 22,227 | 22,262 | 22,278 | 22,333 | 22,336 | 22,362 | 22,377 | 22,401 | 22,453 | 22,496 | 22,521 |
| Federal. | 2,732 | 2,727 | 2,726 | 2,724 | 2,721 | 2,722 | 2,728 | 2,735 | 2,717 | 2,725 | 2,726 | 2,734 | 2,740 | 2,742 | 2,739 |
| Federal, except U.S. Postal Service. | 1,962.6 | 1,964.6 | 1,964.3 | 1,963.4 | 1,961.4 | 1,963.5 | 1,966.7 | 1,972.3 | 1,977.3 | 1,982.9 | 1,986.6 | 1,996.0 | 2,006.5 | 2,011.2 | 2,010.5 |
| U.S. Postal Service. | 769.7 | 762.3 | 761.6 | 760.6 | 759.3 | 758.3 | 761.7 | 763.1 | 739.7 | 741.6 | 739.1 | 737.9 | 733.3 | 730.8 | 728.6 |
| State... | 5,075 | 5,125 | 5,123 | 5,123 | 5,138 | 5,138 | 5,131 | 5,153 | 5,159 | 5,158 | 5,157 | 5,170 | 5,174 | 5,186 | 5,198 |
| Education. | 2,292.5 | 2,318.4 | 2,313.8 | 2,313.6 | 2,327.7 | 2,325.9 | 2,314.3 | 2,332.5 | 2,335.1 | 2,332.9 | 2,332.9 | 2,340.8 | 2,344.4 | 2,352.3 | 2,359.0 |
| Other State government. | 2,782.0 | 2,806.6 | 2,808.8 | 2,809.5 | 2,810.3 | 2,812.4 | 2,816.5 | 2,820.9 | 2,824.0 | 2,824.9 | 2,823.8 | 2,829.1 | 2,829.7 | 2,833.8 | 2,838.9 |
| Local.... | 14,167 | 14,351 | 14,321 | 14,365 | 14,368 | 14,402 | 14,419 | 14,445 | 14,460 | 14,479 | 14,494 | 14,497 | 14,539 | 14,568 | 14,584 |
| Education.. | 7,913.0 | 7,976.6 | 7,938.2 | 7,972.0 | 7,970.6 | 7,994.6 | 7,999.6 | 8,016.5 | 8,018.0 | 8,031.9 | 8,035.7 | 8,032.1 | 8,060.0 | 8,075.0 | 8,077.2 |
| Other local government.. | 6,253.8 | 6,374.5 | 6,382.5 | 6,393.4 | 6,397.5 | 6,406.9 | 6,419.2 | 6,428.2 | 6,441.5 | 6,447.5 | 6,457.8 | 6,465.0 | 6,479.2 | 6,493.0 | 6,506.5 |

${ }^{1}$ Includes other industries not shown separately
NOTE: See "Notes on the data" for a description of the most recent benchmark revision
$p=$ preliminary.
13. Average weekly hours of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls, by industry, monthly data seasonally adjusted

| Industry | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June ${ }^{\text {p }}$ | July ${ }^{\text {p }}$ |
| TOTAL PRIVATE... | 33.9 | 33.8 | 33.8 | 33.8 | 33.8 | 33.8 | 33.8 | 33.8 | 33.7 | 33.7 | 33.8 | 33.8 | 33.7 | 33.7 | 33.7 |
| GOODS-PRODUCING.. | 40.5 | 40.6 | 40.6 | 40.6 | 40.6 | 40.6 | 40.7 | 40.5 | 40.4 | 40.4 | 40.5 | 40.4 | 40.2 | 40.3 | 40.3 |
| Natural resources and mining. | 45.6 | 45.9 | 45.9 | 45.7 | 46.2 | 46.0 | 46.2 | 45.8 | 45.7 | 45.7 | 46.2 | 44.9 | 44.6 | 45.0 | 44.9 |
| Construction... | 39.0 | 39.0 | 38.9 | 38.8 | 38.9 | 39.0 | 39.1 | 39.0 | 38.8 | 38.7 | 38.9 | 38.9 | 38.5 | 38.7 | 38.7 |
| Manufacturing... | 41.1 | 41.2 | 41.4 | 41.3 | 41.4 | 41.2 | 41.3 | 41.1 | 41.1 | 41.1 | 41.2 | 41.0 | 41.0 | 41.0 | 41.0 |
| Overtime hours.. | 4.4 | 4.2 | 4.2 | 4.2 | 4.2 | 4.1 | 4.1 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 3.9 | 3.8 | 3.8 |
| Durable goods.. | 41.4 | 41.5 | 41.6 | 41.7 | 41.6 | 41.5 | 41.5 | 41.3 | 41.4 | 41.4 | 41.5 | 41.3 | 41.2 | 41.2 | 41.3 |
| Overtime hours. | 4.4 | 4.2 | 4.2 | 4.2 | 4.2 | 4.1 | 4.1 | 4.0 | 4.1 | 4.1 | 4.0 | 4.0 | 3.9 | 3.8 | 3.8 |
| Wood products. | 39.8 | 39.4 | 39.9 | 39.6 | 39.7 | 39.5 | 39.0 | 39.2 | 39.0 | 39.0 | 38.7 | 38.8 | 39.1 | 39.3 | 39.0 |
| Nonmetallic mineral products.. | 43.0 | 42.3 | 42.6 | 42.8 | 42.7 | 42.6 | 42.9 | 41.5 | 42.2 | 42.1 | 43.1 | 42.2 | 42.3 | 42.1 | 42.6 |
| Primary metals. | 43.6 | 42.9 | 43.2 | 43.0 | 42.6 | 42.6 | 42.7 | 42.2 | 42.5 | 42.4 | 42.9 | 42.4 | 42.2 | 42.5 | 42.2 |
| Fabricated metal products.... | 41.4 | 41.6 | 41.7 | 41.7 | 41.9 | 41.7 | 41.7 | 41.6 | 41.6 | 41.7 | 41.7 | 41.6 | 41.4 | 41.2 | 41.2 |
| Machinery... | 42.4 | 42.6 | 42.5 | 42.6 | 42.7 | 42.9 | 42.9 | 42.9 | 43.1 | 43.0 | 42.7 | 42.5 | 42.1 | 42.1 | 42.2 |
| Computer and electronic products.. | 40.5 | 40.6 | 40.3 | 40.6 | 40.6 | 40.6 | 40.9 | 40.5 | 40.4 | 40.5 | 41.0 | 41.1 | 41.2 | 41.2 | 41.2 |
| Electrical equipment and appliances.. | 41.0 | 41.2 | 41.4 | 41.2 | 41.2 | 40.7 | 41.2 | 41.6 | 41.4 | 41.1 | 41.3 | 41.1 | 41.1 | 41.0 | 40.8 |
| Transportation equipment. | 42.7 | 42.8 | 43.3 | 43.1 | 42.8 | 42.7 | 42.6 | 42.1 | 42.6 | 42.9 | 42.3 | 42.3 | 42.1 | 42.2 | 42.6 |
| Furniture and related products. | 38.8 | 39.2 | 39.2 | 39.7 | 39.4 | 39.1 | 38.9 | 39.1 | 38.3 | 38.2 | 38.7 | 38.7 | 38.8 | 39.0 | 38.4 |
| Miscellaneous manufacturing... | 38.7 | 38.9 | 39.2 | 39.4 | 39.7 | 39.0 | 38.8 | 38.8 | 39.0 | 38.8 | 39.3 | 39.3 | 39.2 | 39.2 | 39.3 |
| Nondurable goods... | 40.6 | 40.8 | 40.9 | 40.8 | 40.9 | 40.8 | 40.9 | 40.8 | 40.6 | 40.6 | 40.7 | 40.5 | 40.5 | 40.5 | 40.5 |
| Overtime hours.... | 4.4 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.0 | 3.9 | 3.9 | 3.9 | 3.9 | 3.8 | 3.8 | 3.7 |
| Food manufacturing... | 40.1 | 40.7 | 40.8 | 40.6 | 40.7 | 40.8 | 40.6 | 40.4 | 40.5 | 40.6 | 40.7 | 40.8 | 40.8 | 40.6 | 40.6 |
| Beverage and tobacco products.. | 40.8 | 40.8 | 40.7 | 41.0 | 40.8 | 40.6 | 40.5 | 40.8 | 40.5 | 40.1 | 40.4 | 39.6 | 39.7 | 39.0 | 39.1 |
| Textile mills... | 40.6 | 40.3 | 40.2 | 39.9 | 40.4 | 40.2 | 39.9 | 40.2 | 38.7 | 38.8 | 38.8 | 38.4 | 39.0 | 38.9 | 39.3 |
| Textile product mills. | 39.8 | 39.7 | 40.8 | 39.9 | 39.9 | 39.2 | 39.1 | 39.9 | 38.6 | 39.3 | 39.3 | 38.3 | 38.7 | 39.1 | 39.1 |
| Apparel... | 36.5 | 37.2 | 37.5 | 37.2 | 37.2 | 36.6 | 36.9 | 37.5 | 36.7 | 36.8 | 36.7 | 36.6 | 36.0 | 36.4 | 36.8 |
| Leather and allied products. | 38.9 | 38.1 | 37.5 | 37.7 | 37.9 | 37.7 | 38.1 | 39.1 | 38.2 | 38.2 | 38.7 | 38.6 | 38.7 | 38.5 | 38.3 |
| Paper and paper products... | 42.9 | 43.2 | 43.0 | 43.1 | 43.2 | 43.3 | 43.7 | 44.0 | 44.0 | 43.9 | 43.6 | 43.3 | 42.5 | 42.7 | 42.4 |
| Printing and related support activities. | 39.2 | 39.1 | 38.8 | 39.1 | 38.9 | 38.8 | 39.0 | 38.8 | 38.4 | 38.2 | 38.6 | 38.5 | 38.5 | 38.1 | 38.0 |
| Petroleum and coal products. | 45.0 | 44.2 | 44.0 | 43.7 | 43.4 | 42.9 | 43.8 | 44.0 | 43.8 | 43.6 | 43.5 | 43.2 | 44.2 | 44.4 | 45.2 |
| Chemicals. | 42.5 | 41.9 | 42.2 | 42.1 | 42.0 | 41.7 | 42.1 | 41.5 | 41.6 | 41.4 | 41.9 | 41.3 | 41.3 | 41.8 | 41.8 |
| Plastics and rubber products. | 40.6 | 41.3 | 41.5 | 41.3 | 41.6 | 41.7 | 42.1 | 41.4 | 41.1 | 41.2 | 41.1 | 41.0 | 41.0 | 41.1 | 41.3 |
| PRIVATE SERVICEPROVIDING. | 32.5 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.4 | 32.3 | 32.4 | 32.4 | 32.4 | 32.4 | 32.3 |
| Trade, transportation, and utilities $\qquad$ | 33.4 | 33.3 | 33.2 | 33.3 | 33.3 | 33.2 | 33.3 | 33.3 | 33.4 | 33.3 | 33.4 | 33.4 | 33.3 | 33.3 | 33.2 |
| Wholesale trade. | 38.0 | 38.2 | 38.1 | 38.2 | 38.2 | 38.1 | 38.1 | 38.3 | 38.4 | 38.2 | 38.4 | 38.3 | 38.3 | 38.3 | 38.4 |
| Retail trade. | 30.5 | 30.2 | 30.1 | 30.1 | 30.2 | 30.1 | 30.2 | 30.1 | 30.2 | 30.1 | 30.2 | 30.2 | 30.1 | 30.1 | 30.0 |
| Transportation and warehousing.. | 36.9 | 36.9 | 36.8 | 36.9 | 36.9 | 36.7 | 36.8 | 36.8 | 36.6 | 36.7 | 36.7 | 36.7 | 36.5 | 36.5 | 36.4 |
| Utilities.. | 41.4 | 42.4 | 42.6 | 42.4 | 42.5 | 42.2 | 42.5 | 42.8 | 43.1 | 42.8 | 43.3 | 42.6 | 42.4 | 42.8 | 42.3 |
| Information.. | 36.6 | 36.5 | 36.6 | 36.4 | 36.5 | 36.2 | 36.2 | 36.3 | 36.3 | 36.2 | 36.6 | 36.5 | 36.6 | 36.6 | 36.7 |
| Financial activities... | 35.7 | 35.9 | 35.9 | 35.8 | 35.7 | 35.7 | 35.8 | 35.8 | 35.8 | 35.8 | 35.8 | 35.9 | 36.0 | 35.9 | 35.7 |
| Professional and business services $\qquad$ | 34.6 | 34.8 | 34.8 | 34.7 | 34.8 | 34.8 | 34.7 | 34.8 | 34.7 | 34.6 | 34.8 | 34.8 | 34.8 | 34.8 | 34.8 |
| Education and health services.... | 32.5 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.6 | 32.7 | 32.6 | 32.7 | 32.6 | 32.6 |
| Leisure and hospitality............... | 25.7 | 25.5 | 25.3 | 25.4 | 25.4 | 25.4 | 25.3 | 25.3 | 25.3 | 25.3 | 25.3 | 25.4 | 25.3 | 25.3 | 25.2 |
| Other services.......................... | 30.9 | 30.9 | 30.9 | 30.8 | 30.9 | 30.8 | 30.9 | 30.8 | 30.8 | 30.8 | 30.9 | 30.8 | 30.8 | 30.8 | 30.8 |

Data relate to production workers in natural resources and mining and manufacturing, construction workers in construction, and nonsupervisory workers in the service-providing industries.

NOTE: See "Notes on the data" for a description of the most recent benchmark revision.
$\mathrm{p}=$ preliminary
14. Average hourly earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls, by industry, monthly data seasonally adjusted

| Industry | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June ${ }^{\text {p }}$ | July ${ }^{\text {p }}$ |
| TOTAL PRIVATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Current dollars. | \$16.76 | \$17.42 | \$17.47 | \$17.51 | \$17.57 | \$17.59 | \$17.64 | \$17.70 | \$17.75 | \$17.81 | \$17.87 | \$17.89 | \$17.95 | \$18.00 | \$18.07 |
| Constant (1982) dollars. | 8.24 | 8.32 | 8.33 | 8.35 | 8.35 | 8.34 | 8.27 | 8.27 | 8.26 | 8.29 | 8.28 | 8.27 | 8.24 | 8.17 | 8.12 |
| GOODS-PRODUCING.. | 18.02 | 18.67 | 18.69 | 18.73 | 18.78 | 18.77 | 18.84 | 18.90 | 18.98 | 19.04 | 19.12 | 19.12 | 19.17 | 19.25 | 19.35 |
| Natural resources and mining. | 19.90 | 20.96 | 20.95 | 21.09 | 20.99 | 21.05 | 21.02 | 21.54 | 21.75 | 21.69 | 22.01 | 21.61 | 21.71 | 22.01 | 22.54 |
| Construction... | 20.02 | 20.95 | 20.94 | 21.01 | 21.12 | 21.07 | 21.20 | 21.30 | 21.38 | 21.47 | 21.56 | 21.60 | 21.70 | 21.77 | 21.86 |
| Manufacturing... | 16.81 | 17.26 | 17.30 | 17.33 | 17.34 | 17.34 | 17.40 | 17.41 | 17.49 | 17.55 | 17.61 | 17.62 | 17.65 | 17.71 | 17.79 |
| Excluding overtime | 15.96 | 16.43 | 16.46 | 16.49 | 16.50 | 16.52 | 16.58 | 16.60 | 16.68 | 16.74 | 16.79 | 16.80 | 16.85 | 16.93 | 17.00 |
| Durable goods. | 17.68 | 18.19 | 18.23 | 18.27 | 18.28 | 18.28 | 18.31 | 18.33 | 18.41 | 18.49 | 18.54 | 18.58 | 18.61 | 18.67 | 18.76 |
| Nondurable goods. | 15.33 | 15.67 | 15.70 | 15.71 | 15.74 | 15.73 | 15.85 | 15.86 | 15.92 | 15.94 | 16.03 | 15.99 | 16.04 | 16.11 | 16.15 |
| PRIVATE SERVICEPROVIDING. | 16.42 | 17.10 | 17.15 | 17.19 | 17.26 | 17.28 | 17.33 | 17.39 | 17.44 | 17.50 | 17.55 | 17.58 | 17.64 | 17.69 | 17.75 |
| Trade,transportation, and |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| utilities.... | 15.39 | 15.79 | 15.82 | 15.85 | 15.90 | 15.94 | 15.93 | 16.00 | 16.02 | 16.07 | 16.11 | 16.11 | 16.16 | 16.19 | 16.19 |
| Wholesale trade. | 18.91 | 19.59 | 19.58 | 19.66 | 19.72 | 19.77 | 19.86 | 19.93 | 19.97 | 20.00 | 20.03 | 20.05 | 20.06 | 20.12 | 20.16 |
| Retail trade.. | 12.57 | 12.76 | 12.79 | 12.80 | 12.83 | 12.86 | 12.81 | 12.81 | 12.80 | 12.84 | 12.86 | 12.85 | 12.90 | 12.90 | 12.90 |
| Transportation and warehousing. | 17.28 | 17.73 | 17.78 | 17.79 | 17.86 | 17.86 | 17.93 | 18.07 | 18.10 | 18.21 | 18.25 | 18.33 | 18.38 | 18.39 | 18.38 |
| Utilities. | 27.40 | 27.87 | 27.82 | 27.99 | 28.14 | 28.32 | 28.18 | 28.52 | 28.61 | 28.58 | 28.77 | 28.56 | 28.81 | 29.14 | 28.61 |
| Information... | 23.23 | 23.94 | 23.92 | 23.97 | 24.01 | 24.10 | 24.11 | 24.18 | 24.33 | 24.41 | 24.53 | 24.50 | 24.67 | 24.74 | 24.87 |
| Financial activities.. | 18.80 | 19.64 | 19.67 | 19.75 | 19.76 | 19.78 | 19.87 | 19.91 | 20.00 | 20.05 | 20.11 | 20.16 | 20.23 | 20.26 | 20.31 |
| Professional and business services $\qquad$ | 19.13 | 20.13 | 20.19 | 20.25 | 20.36 | 20.31 | 20.42 | 20.46 | 20.53 | 20.63 | 20.74 | 20.84 | 20.90 | 21.01 | 21.12 |
| Education and health services. $\qquad$ | 17.38 | 18.11 | 18.14 | 18.20 | 18.29 | 18.34 | 18.43 | 18.48 | 18.54 | 18.59 | 18.61 | 18.64 | 18.71 | 18.75 | 18.83 |
| Leisure and hospitality................... | 9.75 | 10.41 | 10.46 | 10.50 | 10.55 | 10.60 | 10.61 | 10.65 | 10.67 | 10.73 | 10.74 | 10.79 | 10.81 | 10.85 | 10.87 |
| Other services............................... | 14.77 | 15.42 | 15.46 | 15.51 | 15.55 | 15.59 | 15.66 | 15.71 | 15.74 | 15.76 | 15.77 | 15.79 | 15.81 | 15.85 | 15.89 |

[^14]15. Average hourly earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls, by industry


1 Data relate to production workers in natural resources and mining and
manufacturing, construction workers in construction, and nonsupervisory
workers in the service-providing industries.
16. Average weekly earnings of production or nonsupervisory workers ${ }^{1}$ on private nonfarm payrolls, by industry

| Industry | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec | Jan. | Feb. | Mar. | Apr. | May. | June ${ }^{\text {p }}$ | July ${ }^{\text {p }}$ |
| TOTAL PRIVATE. | \$567.87 | $\$ 589.72$ | $\begin{array}{r} \$ 596.45 \\ 590.49 \end{array}$ | $\begin{array}{r} \$ 592.28 \\ 591.84 \end{array}$ | $\begin{array}{r} \$ 603.29 \\ 593.87 \end{array}$ | $\begin{array}{r} \$ 594.88 \\ 594.54 \end{array}$ | $\begin{array}{r} \$ 594.13 \\ 596.23 \end{array}$ | $\begin{array}{r} \$ 605.28 \\ 598.26 \end{array}$ | $\begin{array}{r} \$ 592.74 \\ 598.18 \end{array}$ | $\begin{array}{r} \$ 596.19 \\ 600.20 \end{array}$ | $\begin{array}{r} \$ 605.70 \\ 604.01 \end{array}$ | $\begin{array}{r} \$ 599.99 \\ 604.68 \end{array}$ | $\begin{array}{r} \$ 601.44 \\ 604.92 \end{array}$ | $\begin{array}{r} \$ 612.44 \\ 606.60 \end{array}$ | \$606.26 |
| Seasonally adjusted. |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 608.96 |
| GOODS-PRODUCING... | 730.16 | 757.06 | 758.16 | 769.33 | 777.20 | 771.37 | 770.30 | 771.67 | 756.00 | 751.92 | 766.91 | 766.21 | 769.03 | 783.07 | 779.08 |
| Natural resources and mining. | 907.95 | 961.78 | 957.93 | 962.52 | 979.52 | 981.63 | 969.74 | 992.94 | 988.20 | 986.34 | 1,017.28 | 970.94 | 950.74 | 987.00 | 1,007.56 |
| CONSTRUCTION | 781.21 | 816.06 | 828.19 | 836.75 | 842.14 | 841.50 | 829.14 | 825.27 | 805.00 | 800.63 | 825.06 | 824.83 | 833.76 | 852.42 | 859.26 |
| Manufacturing... | 691.02 | 711.36 | 704.30 | 718.37 | 725.16 | 717.88 | 722.93 | 728.42 | 716.98 | 714.29 | 723.36 | 722.83 | 721.07 | 729.65 | 719.43 |
| Durable goods. | 732.00532.99 | $\begin{aligned} & 754.12 \\ & 539.10 \end{aligned}$ | 743.91 | 763.69543.04 | $\begin{aligned} & 770.70 \\ & 548.73 \end{aligned}$ | $\begin{aligned} & 763.11 \\ & 548.26 \end{aligned}$ | 763.78534.83 | $\begin{aligned} & 771.63 \\ & 546.87 \end{aligned}$ | 759.32530.98 | 758.50523.78 | $\begin{aligned} & 767.14 \\ & 531.99 \end{aligned}$ | 766.53 | $\begin{aligned} & 765.08 \\ & 553.34 \end{aligned}$ | 774.81 | 760.51559.24 |
| Wood products |  |  | 546.16 |  |  |  |  |  |  |  |  | 538.86 |  | 564.80 |  |
| Nonmetallic mineral | 712.71 | 716.79 | $\begin{aligned} & 729.31 \\ & 849.58 \end{aligned}$ | $\begin{aligned} & 732.59 \\ & 844.02 \end{aligned}$ | $\begin{aligned} & 735.20 \\ & 848.72 \end{aligned}$ | $\begin{aligned} & 730.11 \\ & 841.93 \end{aligned}$ | 731.45 | $\begin{aligned} & 696.23 \\ & 844.44 \end{aligned}$ | 696.59 | 686.20 |  | 722.46 | 553.34 718.25 | 726.74 | 559.24 726.73 |
| Primary metals. | 843.59 | 843.28 |  |  |  |  | 842.73 |  | 851.70 | 847.58 |  | 852.44 | 853.71 | 868.73 | 853.60 |
| Fabricated metal products. | 668.98 | 687.13 | 682.28753.79 | 693.04750.06 | $\begin{aligned} & 699.28 \\ & 761.41 \end{aligned}$ | $\begin{aligned} & 700.98 \\ & 762.01 \end{aligned}$ | $\begin{aligned} & 701.40 \\ & 762.82 \end{aligned}$ | $\begin{aligned} & 708.12 \\ & 780.83 \end{aligned}$ | $\begin{aligned} & 695.96 \\ & 763.73 \end{aligned}$ | $\begin{aligned} & 693.01 \\ & 762.27 \end{aligned}$ | $\begin{aligned} & 702.65 \\ & 763.98 \end{aligned}$ | 699.30761.69 | 697.18756.96 | 698.80754.11 | $\begin{aligned} & 690.74 \\ & 749.89 \end{aligned}$ |
| Machinery. | 728.84 | 753.99 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Computer and electronic products $\qquad$ |  |  | 801.19 | 812.43 | 828.20 | 827.42 | 833.06 | 841.66 | 822.45 | 826.06 | 852.80 | 854.81 | 862.69 | 873.99 | 865.44 |
| Electrical equipment and appliances. | 636.95 | 809.19 | 659.69 |  |  |  | 652.29 | 671.67 | 649.98 |  |  | 646.16 |  | 648.90 | 640.74 |
| Transportation equipment | 957.65 | $985.57$ | 943.07 | 1,012.52 | $\begin{array}{r} 666.54 \\ 1,011.74 \end{array}$ | $\begin{aligned} & 649.38 \\ & 992.96 \end{aligned}$ | 999.61 | 1,006.43 | 994.28 | 638.64 $1,002.60$ | 645.19 994.70 | 999.60 | 640.15 985.91 | 1,013.45 | 640.74 977.26 |
| Furniture and related products. |  | 561.03 | 562.91 | 576.69 | 572.96 | 561.48 | 559.65 | 578.55 | 545.00 | 541.75 | 555.17 | 553.44 | 557.48 | 571.54 | 556.42 |
| Miscellaneous manufacturing | 555.90 | 569.98 | 573.53 | 581.94 | 588.24 | 574.77 |  |  |  |  |  |  |  |  |  |
| Nondurable goods. | $\begin{aligned} & 621.97 \\ & 525.99 \end{aligned}$ | 639.99 | 639.04 | 641.72 | 651.30 | 644.11 | 653.78 | 656.67 | 646.00 | 638.79 | 648.41 | $\begin{aligned} & 586.82 \\ & 647.61 \end{aligned}$ | 646.41 | 652.85 | 652.86 |
| Food manufacturing. |  | 550.65 | 552.30 | 556.65 | 566.48 | 560.73 | 562.92 | 561.70 | 556.19 | 546.85 | 555.97 | 559.94 | 565.32 | 566.37 | 567.41 |
| Beverages and tobacco products. $\qquad$ | 741.3 | 753.80 | 1.15 | 39.65 | 747.04 | 751.34 | 787.46 | 793.51 | 778.09 | 69.89 | 5.56 | 68.47 | 763.91 | 733.52 | 736.96 |
| Textile mills. | 509.39 | 524.47 | 519.95 | 524.44 | 536.93 | 515.91 | 521.09 | 539.64 | 514.32 | 512.64 | 521.86 | 515.14 | 523.80 | 529.62 | 533.89 |
| Textile product mills | 472.24 | 467.96 | 477.98 | 468.43 | 468.03 | 457.08 | 457.46 | 478.23 | 449.68 | 454.34 | 464.13 | 450.00 | 454.24 | 468.46 | 459.02 |
| Apparel. | 389.20 | 411.52 | 413.67 | 412.55 | 414.41 | 410.69 | 415.52 | 423.00 | 416.05 | 420.58 | 418.82 | 423.57 | 412.62 | 415.78 | 414.28 |
| Leather and allied products | 445.47 | 459.43 | 450.66 | 453.75 | 462.67 | 458.59 | 478.75 | 484.80 | 484.36 | 480.57 | 499.59 | 491.31 | 502.32 | 501.03 | 485.73 |
| Paper and paper products. | 772.39 | 795.20 | 799.50 | 788.73 | 813.91 | 806.60 | 816.37 | 834.47 | 826.32 | 805.81 | 807.98 | 802.66 | 788.95 | 804.71 | 807.48 |
| Printing and related support activities.. | 618.92 | 632.08 | 621.70 | 638.18 | 644.98 | 644.37 | 640.14 | 654.35 | 630.68 | 629.92 | 644.36 | 640.64 | 638.08 | 634.28 | 629.63 |
| Petroleum and coal products | 1,085.50 | 1,115.24 | 1,117.84 | 1,106.21 | 1,144.40 | 1,074.05 | 1,204.67 | 1,099.91 | 1,157.58 | 1,134.63 | 1,165.02 | 1,163.45 | 1,188.44 | 1,228.08 | 1,270.97 |
| Chemical | 833.67 | 819.99 | 823.46 | 819.69 | 821.79 | 801.09 | 823.74 | 818.03 | 809.54 | 801.22 | 810.77 | 800.81 | 794.17 | 811.86 | 810.23 |
| Plastics and rubber products. $\qquad$ | 608.41 | 635.15 | 624.65 | 635.00 | 647.36 | 642.60 | 652.13 | 657.30 | 639.52 | 637.22 | 644.86 | 646.57 | 644.11 | 649.57 | 645.50 |
| PRIVATE SERVICEPROVIDING | 532.78 | 554.78 | 560.88 | 554.13 | 567.77 | 557.82 | 559.11 | 570.62 | 558.89 | 564.32 | 573.63 | 567.36 | 566.40 | 578.59 | 571.54 |
| Trade, transportation, and utilities. | 514.34 | 526.38 | 5.49 | 29.64 | 542.40 | 529.21 | 525.89 | 535.49 | 525.46 | 29.03 | 538.13 | 34.90 | 534.23 | 545.94 | 541.08 |
| Wholesale tr | 718.63 | 748.90 | 758.45 | 747.96 | 768.20 | 752.48 | 757.81 | 779.88 | 758.38 | 759.14 | 775.09 | 764.38 | 761.33 | 779.95 | 770.21 |
| Retail trade | 383.02 | 385.20 | 392.90 | 388.51 | 396.34 | 386.79 | 382.27 | 385.52 | 379.57 | 380.75 | 387.00 | 385.71 | 387.30 | 394.06 | 391.78 |
| Transportation and warehousing. | 636.97 | 654.83 | 664.09 | 663.65 | 668.11 | 656.56 | 661.99 | 678.30 | 650.88 | 654.85 | 667.57 | 663.56 | 665.38 | 680.44 | 673.04 |
| Utilities. | . 1,135.34 | 1,182.17 | 1,180.02 | 1,175.75 | 1,215.61 | 1,208.70 | 1,194.41 | 1,221.65 | 1,222.07 | 1,218.79 | 1,241.84 | 1,225.06 | 1,219.51 | 1,247.43 | 1,201.74 |
| Information | 850.42 | 873.63 | 884.24 | 870.53 | 896.14 | 874.23 | 872.78 | 893.28 | 877.40 | 879.84 | 902.09 | 887.6 | 890.5 | 917.48 | 910.43 |
| Financial activitie | 672.21 | 705.29 | 717.59 | 699.54 | 721.64 | 702.55 | 705.95 | 726.91 | 708.58 | 716.50 | 730.52 | 721.85 | 721.14 | 739.86 | 719.83 |
| Professional and business services.. | 662.27 | 700.15 | 709.10 | 696.35 | 715.97 | 702.61 | 705.45 | 727.58 | 704.17 | 714.49 | 734.64 | 725.23 | 724.19 | 744.46 | 729.05 |
| Education and Education and health services. $\qquad$ | 564.94 | 590.18 | 598.12 | 593.32 | 603.06 | 595.73 | 600.49 | 607.13 | 604.83 | 603.85 | 608.87 | 603.61 | 605.80 | 610.84 | 615.16 |
| Leisure and hospitality | 250.34 | 265.45 | 271.68 | 270.14 | 269.57 | 268.43 | 266.75 | 272.48 | 262.89 | 269.42 | 272.23 | 272.16 | 273.75 | 278.94 | 276.58 |
| Other services.. | 456.50 | 476.80 | 480.17 | 478.33 | 484.54 | 478.94 | 480.79 | 488.25 | 480.07 | 482.87 | 489.46 | 485.67 | 486.29 | 492.94 | 488.2 |

[^15]providing industries.
$p=$ preliminary.
17. Diffusion indexes of employment change, seasonally adjusted
[In percent]

| Timespan and year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Private nonfarm payrolls, 278 industries |  |  |  |  |  |  |  |  |  |  |  |
| Over 1-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2004. | 50.5 | 50.5 | 64.1 | 62.6 | 61.7 | 58.9 | 56.0 | 50.0 | 56.9 | 56.9 | 51.3 | 51.8 |
| 2005. | 52.2 | 60.6 | 54.2 | 58.2 | 55.8 | 58.2 | 58.0 | 61.3 | 54.7 | 53.6 | 62.4 | 54.7 |
| 2006. | 65.1 | 60.9 | 64.4 | 59.3 | 53.3 | 52.7 | 60.4 | 58.9 | 53.5 | 55.8 | 57.1 | 56.0 |
| 2007. | 51.6 | 51.8 | 52.7 | 51.1 | 56.6 | 50.4 | 52.2 | 51.6 | 56.4 | 54.6 | 48.2 | 48.5 |
| 2008. | 45.4 | 41.4 | 47.4 | 45.6 | 46.4 | 42.3 | 41.4 |  |  |  |  |  |
| Over 3-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2004. | 54.4 | 52.9 | 57.3 | 63.5 | 68.8 | 66.6 | 61.3 | 56.4 | 57.7 | 59.5 | 61.9 | 54.6 |
| 2005. | 52.2 | 55.5 | 57.5 | 60.8 | 58.9 | 61.9 | 60.4 | 63.9 | 61.1 | 54.4 | 54.9 | 61.3 |
| 2006. | 67.2 | 66.2 | 66.6 | 65.5 | 60.6 | 58.2 | 56.0 | 58.9 | 55.7 | 56.4 | 57.1 | 58.4 |
| 2007. | 58.4 | 54.7 | 55.3 | 54.7 | 56.2 | 53.3 | 53.1 | 54.7 | 58.4 | 56.8 | 54.7 | 52.4 |
| 2008. | 46.7 | 42.7 | 42.3 | 44.0 | 43.1 | 44.0 | 38.3 |  |  |  |  |  |
| Over 6-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2004. | 50.0 | 51.6 | 55.3 | 60.9 | 63.7 | 65.1 | 65.1 | 63.9 | 60.4 | 61.7 | 58.2 | 56.0 |
| 2005. | 54.6 | 57.3 | 56.8 | 57.5 | 57.5 | 58.2 | 64.4 | 62.8 | 62.0 | 59.3 | 61.5 | 62.0 |
| 2006. | 63.1 | 64.4 | 67.2 | 67.0 | 64.4 | 66.4 | 61.5 | 61.7 | 60.4 | 59.7 | 60.8 | 56.0 |
| 2007. | 59.1 | 56.4 | 57.5 | 56.8 | 58.8 | 58.2 | 56.2 | 58.0 | 58.2 | 57.1 | 54.6 | 53.8 |
| 2008. | 51.5 | 49.8 | 44.7 | 46.5 | 43.6 | 39.1 | 38.9 |  |  |  |  |  |
| Over 12-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2004. | 40.5 | 42.3 | 45.1 | 48.9 | 51.3 | 58.2 | 57.5 | 55.7 | 57.3 | 58.8 | 60.6 | 60.8 |
| 2005. | 60.6 | 60.8 | 59.7 | 58.9 | 58.0 | 60.0 | 60.9 | 63.3 | 60.4 | 58.9 | 59.5 | 61.7 |
| 2006. | 67.2 | 65.1 | 65.5 | 62.6 | 64.8 | 66.4 | 64.4 | 64.4 | 66.2 | 65.1 | 64.4 | 65.5 |
| 2007. | 62.6 | 59.1 | 60.4 | 58.9 | 59.5 | 58.4 | 57.5 | 58.8 | 61.7 | 60.4 | 59.9 | 57.7 |
| 2008. | 53.8 | 54.6 | 52.6 | 50.4 | 49.3 | 45.8 | 45.8 |  |  |  |  |  |
|  | Manufacturing payrolls, 84 industries |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Over 1-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2004. | 43.5 | 47.6 | 47.0 | 63.7 | 50.6 | 51.2 | 58.3 | 42.9 | 42.9 | 48.2 | 42.3 | 39.9 |
| 2005. | 36.3 | 48.8 | 42.9 | 44.6 | 42.3 | 35.1 | 38.1 | 47.0 | 45.8 | 46.4 | 47.0 | 47.0 |
| 2006. | 57.7 | 45.8 | 54.8 | 48.8 | 38.1 | 53.0 | 50.6 | 44.0 | 36.3 | 40.5 | 38.1 | 39.3 |
| 2007. | 47.6 | 35.7 | 30.4 | 29.8 | 37.5 | 39.3 | 41.7 | 33.3 | 40.5 | 45.2 | 44.6 | 36.3 |
| 2008. | 40.5 | 28.6 | 38.1 | 35.1 | 44.6 | 30.4 | 28.6 |  |  |  |  |  |
| Over 3-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2004. | 41.1 | 40.5 | 43.5 | 56.5 | 58.9 | 61.3 | 57.7 | 47.0 | 46.4 | 41.7 | 44.6 | 38.7 |
| 2005. | 38.1 | 39.3 | 42.3 | 44.6 | 36.3 | 37.5 | 33.3 | 39.9 | 45.8 | 41.7 | 38.7 | 49.4 |
| 2006. | 54.8 | 52.4 | 47.6 | 48.8 | 44.6 | 50.6 | 42.9 | 47.6 | 36.3 | 37.5 | 32.1 | 34.5 |
| 2007. | 33.9 | 28.6 | 32.1 | 27.4 | 29.8 | 32.7 | 31.0 | 34.5 | 32.1 | 39.3 | 44.0 | 41.7 |
| 2008. | 35.7 | 27.4 | 26.8 | 29.2 | 29.8 | 35.7 | 23.8 |  |  |  |  |  |
| Over 6-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2004. | 29.2 | 31.5 | 32.7 | 44.6 | 49.4 | 54.8 | 59.5 | 56.0 | 51.2 | 51.8 | 44.0 | 38.7 |
| 2005. | 33.9 | 38.1 | 35.1 | 36.9 | 32.1 | 32.1 | 41.7 | 35.7 | 36.3 | 36.9 | 37.5 | 42.3 |
| 2006. | 42.9 | 45.2 | 50.6 | 47.6 | 48.2 | 47.6 | 46.4 | 48.8 | 43.5 | 41.7 | 38.7 | 29.8 |
| 2007. | 34.5 | 27.4 | 23.8 | 27.4 | 31.5 | 34.5 | 33.3 | 31.0 | 29.2 | 35.1 | 34.5 | 32.7 |
| 2008. | 34.5 | 33.9 | 32.1 | 28.0 | 26.8 | 20.8 | 21.4 |  |  |  |  |  |
| Over 12-month span: |  |  |  |  |  |  |  |  |  |  |  |  |
| 2004. | 13.1 | 14.3 | 13.1 | 20.2 | 23.2 | 35.7 | 36.9 | 38.1 | 36.9 | 44.0 | 44.6 | 44.6 |
| 2005. | 44.6 | 43.5 | 41.7 | 40.5 | 36.3 | 35.1 | 32.1 | 33.9 | 32.7 | 33.3 | 33.3 | 38.1 |
| 2006. | 44.6 | 40.5 | 40.5 | 39.3 | 39.3 | 44.6 | 41.7 | 42.3 | 46.4 | 48.2 | 45.2 | 44.0 |
| 2007. | 39.3 | 36.3 | 36.9 | 28.6 | 29.8 | 26.2 | 26.8 | 29.2 | 30.4 | 29.8 | 33.3 | 33.9 |
| 2008. | 29.8 | 29.8 | 29.8 | 24.4 | 27.4 | 24.4 | 25.0 |  |  |  |  |  |
| NOTE: Figures are the percent of industries with employment increasing plus one-half of the industries with unchanged employment, where 50 percent indicates an equal balance between industries with increasing and decreasing employment. |  |  |  |  | See the "Definitions" in this section. See "Notes on the data" for a description of the most recent benchmark revision. <br> Data for the two most recent months are preliminary. |  |  |  |  |  |  |  |

18. Job openings levels and rates by industry and region, seasonally adjusted

| Industry and region | Levels ${ }^{1}$ (in thousands) |  |  |  |  |  |  | Percent |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2008 |  |  |  |  |  |  | 2008 |  |  |  |  |  |  |
|  | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {p }}$ | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {p }}$ |
| Total ${ }^{2}$ $\qquad$ <br> Industry <br> Total private ${ }^{2}$ $\qquad$ | 3,889 | 3,799 | 3,672 | 3,612 | 3,631 | 3,497 | 3,416 | 2.7 | 2.7 | 2.6 | 2.6 | 2.6 | 2.5 | 2.4 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\begin{array}{r} 3,449 \\ 133 \end{array}$ | $\begin{array}{r} 3,350 \\ 123 \end{array}$ | 3,225 | 3,192 | 3,185 | 3,073 | 2,983 | 2.9 | 2.8 | 2.7 | 2.7 | 2.7 | 2.6 | 2.5 |
| Construction... |  |  | 102 | 99 | 130 | 100 | 84 | 1.8 | 1.6 | 1.4 | 1.3 | 1.8 | 1.4 | 1.2 |
| Manufacturing.. | 133 286 | $\begin{aligned} & 123 \\ & 239 \end{aligned}$ | 251 | 244 | 249 | 241 | 233 | 2.0 | 1.7 | 1.8 | 1.8 | 1.8 | 1.7 | 1.72.2 |
| Trade, transportation, and utilities... | 643 | 598 |  | 550 | 572 | 539 | 591 | 2.4 | 2.2 | 2.1 | 2.0 | 2.1 | 2.0 |  |
| Professional and business services... | 752 | 699 | 714 | 676 | 649 | 670 | 600 | 4.0 | 3.7 | 3.8 | 3.6 | 3.5 | 3.6 | 3.2 |
| Education and health services.... | $\begin{aligned} & 680 \\ & 515 \end{aligned}$ | $\begin{aligned} & 737 \\ & 530 \end{aligned}$ | 696 | 684 | 648 | 682 | 674 | 3.5 | 3.8 | 3.6 | 3.5 | 3.3 | 3.5 | 3.43.1 |
| Leisure and hospitality... |  |  | 501 | 491 | 503 | 452 | 436 | 3.6 | 3.7 | 3.5 | 3.5 | 3.5 | 3.2 |  |
| Government..... | 439 | 450 | 441 | 422 | 451 | 417 | 432 | 1.9 | 2.0 | 1.9 | 1.8 | 2.0 | 1.8 | 1.9 |
| Region ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast... | $\begin{array}{r} 662 \\ 1,536 \end{array}$ | 5761,485 | 6021,386 | $\begin{array}{r} 618 \\ 1.364 \end{array}$ | 6001,386 | 6081,440 | $\begin{array}{r} 588 \\ 1.360 \end{array}$ | 2.5 | 2.2 | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 |
| South.... |  |  |  |  |  |  |  | 3.0 | 2.9 | 2.7 | 2.7 | 2.7 | 2.8 | 2.7 |
| Midwest..... | 749966 | 766954 | 781918 | $\begin{aligned} & 752 \\ & 883 \end{aligned}$ | 721937 | 676789 | $\begin{aligned} & 647 \\ & 831 \end{aligned}$ | 2.33.0 | 2.43.0 | 2.42.9 | 2.3 | 2.2 | 2.1 | 2.02.6 |
| West. |  |  |  |  |  |  |  |  |  |  |  | 2.9 | 2.5 |  |

Detail will not necessarily add to totals because of the independent seasonal adjustment of the various series.
2 Includes natural resources and mining, information, financial activities, and other services, not shown separately.
${ }^{3}$ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont; South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia,

West Virginia; Midwest: Illinois, Indiana, lowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming. NOTE: The job openings level is the number of job openings on the last business day of the month; the job openings rate is the number of job openings on the last business day of the month as a percent of total employment plus job openings.
${ }^{P}=$ preliminary.
19. Hires levels and rates by industry and region, seasonally adjusted


[^16]Midwest: Illinois, Indiana, lowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

NOTE: The hires level is the number of hires during the entire month; the hires rate is the number of hires during the entire month as a percent of total employment.
${ }^{p}=$ preliminary.
20. Total separations levels and rates by industry and region, seasonally adjusted

| Industry and region | Levels ${ }^{1}$ (in thousands) |  |  |  |  |  |  | Percent |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2008 |  |  |  |  |  |  | 2008 |  |  |  |  |  |  |
|  | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {p }}$ | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {p }}$ |
| Total ${ }^{2}$. | 4,477 | 4,503 | 4,390 | 4,404 | 4,313 | 4,368 | 4,308 | 3.2 | 3.3 | 3.2 | 3.2 | 3.1 | 3.2 | 3.1 |
| Industry |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total private ${ }^{2}$. | 4,188 | 4,224 | 4,100 | 4,112 | 4,046 | 4,115 | 4,085 | 3.6 | 3.7 |  |  |  | 3.6 | 3.56.1 |
| Construction.. | $\begin{aligned} & 311 \\ & 348 \end{aligned}$ | 329 | 367 | 378 | 393 | 409 | 436 | 4.2 | 4.5 | $5.0$ | $5.2$ | 5.4 | 5.7 |  |
| Manufacturing. |  | 350957 | $\begin{aligned} & 304 \\ & 941 \end{aligned}$ | 390 | 359 | 353 | 304 | 2.5 | 2.6 | 2.2 | 2.9 | 2.6 | 2.6 | 6.1 2.3 |
| Trade, transportation, and utilities.... | 1,005 |  |  | 1,003 | 868 | 1,003 | 1,025 | 3.8 | 3.6 | 3.5 | 3.8 | 3.3 | 3.8 | 3.94.2 |
| Professional and business services... | $\begin{aligned} & 790 \\ & 447 \end{aligned}$ | 861 | 806 | 739 | 741 | 799 | 756 | 4.4 | 4.8 | 4.5 | 4.1 | 4.1 | 4.5 |  |
| Education and health services.... |  | $\begin{aligned} & 459 \\ & 854 \end{aligned}$ | 449 | 429 | 434 | 417 | 465 | 2.4 | 2.5 | 2.4 | 2.3 | 2.3 | 2.2 | 4.2 2.5 |
| Leisure and hospitality... | $\begin{aligned} & 800 \\ & 290 \end{aligned}$ |  | 776 | 722 | 801 | 749 | 674 | 5.9 | 6.2 | 5.7 | 5.3 | 5.8 | 5.5 | 2.5 |
| Government... |  | 278 | 291 | 295 | 269 | 259 | 237 | 1.3 | 1.2 | 1.3 | 1.3 | 1.2 | 1.1 | 1.1 |
| Region ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast.. | $\begin{array}{r} 697 \\ 1,699 \end{array}$ | 770 | 737 | 709 | 685 | 658 | 750 | 2.7 | 3.0 | 2.9 | 2.8 | 2.7 |  |  |
| South. |  | 1,673 | 1,617 | 1,666 | 1,614 | 1,681 | 1,602 | 3.4 | 3.4 | 3.3 | 3.4 | 3.3 |    <br> .6 2.6 2.9 <br> 3.4 3.2  <br> 3.0 2.9  <br> 3.5 3.5  |  |
| Midwest.. | 9751,107 | 9021,167 | 9181,101 | 9491,094 | 9151,096 | $\begin{array}{r} 954 \\ 1,089 \end{array}$ | 9111,069 | 3.13.6 | 2.93.8 | $\begin{aligned} & 2.9 \\ & 3.6 \end{aligned}$ | 3.03.5 | 2.93.5 | 3.03.5 |  |
| West.. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Detail will not necessarily add to totals because of the independent seasonal adjustment of the various series.
2 Includes natural resources and mining, information, financial activities, and other services, not shown separately.
${ }^{3}$ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont; South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia;

Midwest: Illinois, Indiana, lowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; West: Alaska, Arizona, California Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

NOTE: The total separations level is the number of total separations during the entire month; the total separations rate is the number of total separations during the entire month as a percent of total employment.
${ }^{\mathrm{p}}=$ preliminary
21. Quits levels and rates by industry and region, seasonally adjusted

| Industry and region | Levels ${ }^{1}$ (in thousands) |  |  |  |  |  |  | Percent |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2008 |  |  |  |  |  |  | 2008 |  |  |  |  |  |  |
|  | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {p }}$ | Jan. | Feb. | Mar. | Apr. | May | June | July ${ }^{\text {p }}$ |
| $\overline{\text { Total }}{ }^{2}$ $\qquad$ Industry | 2,493 | 2,522 | 2,375 | 2,444 | 2,336 | 2,365 | 2,324 | 1.8 | 1.8 | 1.7 | 1.8 | 1.7 | 1.7 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total private ${ }^{2}$... | $\begin{array}{r} 2,355 \\ 112 \end{array}$ | 2,384 | 2,258 | 2,301 | 2,210 | 2,242 | 2,212 | 2.0 | 2.1 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 |
| Construction.. |  | 133 | 111 | 127 | 124 | 139 | 144 | 1.5 | 1.8 | 1.5 | 1.7 | 1.7 | 1.9 | 2.0 |
| Manufacturing. | 183 | 187 | 157 | 182 | 163 | 154 | 134 | 1.3 | 1.4 | 1.2 | 1.3 | 1.2 | 1.1 | 1.0 |
| Trade, transportation, and utilities... | 598 | 532 | 535 | 550 | 495 | 545 | 561 | 2.2 | 2.0 | 2.0 | 2.1 | 1.9 | 2.1 | 2.1 |
| Professional and business services. | 351276 | 492 | 386 | 385 | 391 | 413 | 403 | 1.9 | 2.7 | 2.1 | 2.1 | 2.2 | 2.3 | 2.3 |
| Education and health services. |  | 271 | 279 | 270 | 229 | 246 | 270 | 1.5 | 1.5 | 1.5 | 1.4 | 1.2 | 1.3 | 1.4 |
| Leisure and hospitality. |  |  | $\begin{aligned} & 529 \\ & 126 \end{aligned}$ | $\begin{aligned} & 516 \\ & 144 \end{aligned}$ |  | $\begin{aligned} & 525 \\ & 123 \end{aligned}$ | $\begin{aligned} & 482 \\ & 115 \end{aligned}$ | 3.8 | 3.9 | 3.9 | 3.8 |  |  | 3.5 |
| Government... |  |  |  |  |  |  |  |  | . 6 | . 6 |  | . 6 | $.5$ | . 5 |
| Region ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast.. | 3581,045 | 410 | 334 | 368 | 327 | 344 | 357 | 1.4 | 1.6 | 1.3 | 1.4 | 1.3 | 1.3 | 1.4 |
| South.... |  | 1,021 | 996 | 1,001 | 937 | 969 | 916 | 2.1 | 2.1 | 2.0 | 2.0 | 1.9 | 2.0 | 1.8 |
| Midwest. | 502 | 475 | 491 | 500 | 485 | 515 | 536 | 1.6 | 1.5 | 1.6 | 1.6 | 1.5 | 1.6 | 1.7 |
| West................................... | 583 | 632 | 568 | 575 | 584 | 539 | 519 | 1.9 | 2.0 | 1.8 | 1.9 | 1.9 | 1.7 | 1.7 |

[^17]Midwest: Illinois, Indiana, lowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin; West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming.

NOTE: The quits level is the number of quits during the entire month; the quits rate is the number of quits during the entire month as a percent of total employment.
${ }^{\mathrm{p}}=$ preliminary.
22. Quarterly Census of Employment and Wages: 10 largest counties, third quarter 2007.

| County by NAICS supersector | $\begin{aligned} & \text { Establishments, } \\ & \text { third quarter } \\ & 2007 \\ & \text { (thousands) } \end{aligned}$ | Employment |  | Average weekly wage ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | September 2007 (thousands) | Percent change, September 2006-07² | Third quarter 2007 | Percent change, third quarter 2006-07² |
| United States ${ }^{3}$ | 9,012.8 | 136,246.9 | 0.9 | \$818 | 4.3 |
| Private industry ...................................................... | 8,721.6 | 114,790.8 | . 9 | 810 | 4.5 |
| Natural resources and mining .................................. | 124.7 | 1,931.5 | 1.7 | 820 | 7.8 |
| Construction ........................................................ | 895.5 | 7,774.4 | -1.0 | 876 | 5.7 |
| Manufacturing .......................................................... | 361.4 | 13,845.4 | -2.2 | 987 | 4.3 |
| Trade, transportation, and utilities ............................. | 1,916.9 | 26,299.2 | 1.2 | 707 | 3.2 |
| Information ............................. | 144.3 | 3,033.1 | . 0 | 1,274 | 4.6 |
| Financial activities | 871.8 | 8,123.2 | -. 7 | 1,200 | 5.9 |
| Professional and business services | 1,484.6 | 18,017.6 | 1.7 | 998 | 6.4 |
| Education and health services ........................................... | 825.8 | 17,506.6 | 2.9 | 775 | 3.6 |
| Leisure and hospitality ........................................... | 726.7 | 13,562.6 | 1.9 | 348 | 4.2 |
| Other services ..................................................... | 1,162.9 | 4,433.8 | 1.2 | 531 | 4.1 |
| Government .......................................................................... | 291.2 | 21,456.1 | 1.0 | 859 | 3.2 |
| Los Angeles, CA | 401.9 | 4,191.6 | . 4 | 925 | 3.4 |
| Private industry | 397.9 | 3,626.2 | . 1 | 901 | 3.1 |
| Natural resources and mining ... | . 5 | 12.7 | 5.0 | 1,095 | -8.3 |
| Construction ....................... | 14.3 | 160.4 | -. 9 | 945 | 5.4 |
| Manufacturing | 15.2 | 444.7 | ${ }^{4}$ ) | 961 | $\left({ }^{4}\right)$ |
| Trade, transportation, and utilities | 55.3 | 811.9 | -. 1 | 765 | 2.0 |
| Information ............................................................. | 8.8 | 216.3 | 8.5 | 1,520 | $-3$ |
| Financial activities | 25.2 | 243.7 | -2.6 | 1,483 | $\left({ }^{4}\right)$ |
| Professional and business services ............................. | 43.4 | 608.9 | -. 3 | 1,051 | 6.3 |
| Education and health services .... | 28.2 | 480.4 | 1.8 | 851 | ${ }^{4}$ ) |
| Leisure and hospitality ...... | 27.1 | 401.1 | 1.8 | 518 | 2.8 |
| Other services ......... | 179.8 | 246.0 | . 0 | 439 | 5.8 |
| Government .............. | 4.0 | 565.4 | 2.3 | 1,080 | $\left({ }^{4}\right)$ |
| Cook, IL | 138.0 | 2,541.5 | . 0 | 961 | 3.3 |
| Private industry | 136.6 | 2,232.8 | . 2 | 958 | 3.6 |
| Natural resources and mining | . 1 | 1.3 | -7.7 | 1,063 | 3.5 |
| Construction .... | 12.1 | 98.2 | -1.6 | 1,207 | 5.5 |
| Manufacturing | 7.1 | 237.2 | -1.9 | 981 | 3.0 |
| Trade, transportation, and utilities ........... | 27.6 | 472.2 | -. 9 | 776 | -. 5 |
| Information | 2.5 | 58.4 | . 6 | 1,402 | 9.1 |
| Financial activities.. | 15.8 | 215.4 | -1.5 | 1,547 | 7.8 |
| Professional and business services | 28.2 | 441.6 | . 9 | 1,179 | 3.1 |
| Education and health services .. | 13.6 | 369.2 | 1.6 | 843 | 3.7 |
| Leisure and hospitality ........... | 11.6 | 240.0 | 2.2 | 430 | 4.6 |
| Other services ............ | 13.8 | 95.0 | . 7 | 691 | 3.0 |
| Government ........................................................................... | 1.4 | 308.7 | -. 9 | 985 | 2.3 |
| New York, NY . | 118.0 | 2,350.3 | 2.0 | 1,544 | 8.7 |
| Private industry | 117.7 | 1,906.7 | 2.3 | 1,667 | 9.6 |
| Natural resources and mining | . 0 | . 1 | -1.9 | 1,749 | 11.8 |
| Construction | 2.3 | 35.8 | 6.9 | 1,461 | 5.3 |
| Manufacturing | 3.1 | 37.5 | -4.7 | 1,158 | 3.0 |
| Trade, transportation, and utilities | 22.1 | 248.2 | 1.7 | 1,124 | 4.3 |
| Information | 4.4 | 135.6 | 1.0 | 1,916 | 4.5 |
| Financial activities ....... | 18.7 | 380.0 | 2.0 | 3,047 | 16.3 |
| Professional and business services | 24.6 | 482.2 | 2.3 | 1,769 | 8.6 |
| Education and health services .................................. | 8.6 | 283.3 | 2.0 | 1,011 | 4.8 |
| Leisure and hospitality ................................................ | 11.2 | 208.5 | 3.3 | 728 | 6.1 |
| Other services ............................................................. | 17.4 | 87.2 | 1.5 | 889 | 3.7 |
| Government ................................................................... | . 3 | 443.5 | . 7 | 1,014 | 1.5 |
| Harris, TX ..... | 95.1 | 2,028.0 | 3.8 | 1,015 | 6.7 |
| Private industry ....... | 94.5 | 1,783.4 | 4.3 | 1,027 | 7.1 |
| Natural resources and mining ...................................... | 1.5 | 78.4 | (4) | 2,580 | ${ }^{4}$ ) |
| Construction | 6.6 | 151.5 | 5.5 | 968 | 6.1 |
| Manufacturing | 4.6 | 182.2 | 3.5 | 1,290 | 7.7 |
| Trade, transportation, and utilities ............................... | 21.7 | 424.7 | 3.9 | 901 | 6.0 |
| Information ..... | 1.3 | 32.8 | 2.6 | 1,258 | 9.1 |
| Financial activities .................................................. | 10.5 | 120.7 | 2.0 | 1,256 | 7.3 |
| Professional and business services .................................. | 18.9 | 341.2 | 4.9 | 1,156 | 7.5 |
| Education and health services ....................................... | 10.0 | 214.7 | 5.4 | 824 | 1.7 |
| Leisure and hospitality ................................................. | 7.3 | 176.2 | 3.2 | 366 | 2.2 |
| Other services ...................................................................... | 11.0 | 58.4 | 3.9 | 595 | 7.6 |
| Government ................................................................. | . 5 | 244.6 | . 6 | 922 | 3.1 |
| Maricopa, AZ . | 99.3 | 1,825.1 | . 2 | 822 | 3.8 |
| Private industry ............................................................. | 98.6 | 1,605.3 | $-.1$ | 811 | 4.1 |
| Natural resources and mining .......................................... | . 5 | 8.5 | 2.9 | 723 | 6.0 |
| Construction ............................................................... | 10.6 | 165.8 | -7.6 | 834 | 3.9 |
| Manufacturing .......................................................... | 3.6 | 132.2 | -3.7 | 1,116 | 3.2 |
| Trade, transportation, and utilities .................................... | 21.6 | 374.9 | 2.0 | 777 | 3.5 |
| Information .................................................................... | 1.6 | 30.4 | $-.7$ | 1,030 | . 4 |
| Financial activities .................................................... | 12.7 | 148.6 | -2.4 | 1,024 | . 0 |
| Professional and business services ................................. | 21.8 | 316.8 | . 3 | 825 | 9.1 |
| Education and health services ........................................ | 9.7 | 198.9 | 4.4 | 879 | 5.5 |
| Leisure and hospitality ......................................................... | 7.2 | 177.6 | 1.4 | 387 | 5.7 |
| Other services ............................................................. | 7.2 | 50.1 | 2.2 | 570 | 5.2 |
| Government .................................................................... | . 7 | 219.9 | 2.8 | 908 | 1.2 |

22. Continued—Quarterly Census of Employment and Wages: 10 largest counties, second quarter 2007.

| County by NAICS supersector | Establishments, second quarter 2007 (thousands) | Employment |  | Average weekly wage ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \text { June } \\ & 2007 \\ & \text { (thousands) } \end{aligned}$ | Percent change, June 2006-07 ${ }^{2}$ | Second quarter 2007 | Percent change, second quarter 2006-07 ${ }^{2}$ |
| Orange, CA | 94.7 | 1,519.5 | -1.0 | \$952 | 3.4 |
| Private industry | 93.3 | 1,363.2 | -1.3 | 939 | 2.8 |
| Natural resources and mining | . 2 | 6.2 | -6.8 | 588 | 10.7 |
| Construction | 7.1 | 105.6 | -3.5 | 1,016 | 7.2 |
| Manufacturing | 5.4 | 177.1 | ${ }^{4}$ ) | 1,150 | $\left(\begin{array}{l}4 \\ 4\end{array}\right.$ |
| Trade, transportation, and utilities .................................... | 17.8 | 278.2 | . 4 | 892 | ${ }^{4}$ ) |
| Information .......................................................... | 1.4 | 30.1 | -2.2 | 1,340 | 7.5 |
| Financial activities ................................................. | 11.4 | 128.1 | -7.7 | 1,445 | $\left({ }^{4}\right)$ |
| Professional and business services | 19.2 | 274.6 | ${ }^{4}$ ) | 1,000 | ${ }^{4}$ ) |
| Education and health services ... | 9.8 | 139.6 | 2.9 | 833 | 3.3 |
| Leisure and hospitality .................................................. | 7.0 | 175.1 | 1.7 | 410 | 5.1 |
| Other services ........................................................... | 14.0 | 48.4 | -. 4 | 561 | 4.1 |
| Government ................................................................... | 1.4 | 156.3 | 1.1 | 1,062 | 6.7 |
| Dallas, TX | 67.6 | 1,492.6 | 3.2 | 1,011 | 5.4 |
| Private industry ........................................................... | 67.1 | 1,330.0 | 3.2 | 1,022 | 5.4 |
| Natural resources and mining ........................................ | . 6 | 7.1 | -4.7 | 2,879 | -1.1 |
| Construction | 4.4 | 84.1 | 4.4 | 935 | 1.4 |
| Manufacturing | 3.2 | 144.2 | -. 4 | 1,202 | 8.1 |
| Trade, transportation, and utilities ............................. | 15.0 | 307.2 | 2.3 | 974 | 6.1 |
| Information | 1.7 | 48.6 | -4.6 | 1,371 | 7.3 |
| Financial activities . | 8.7 | 145.7 | 2.8 | 1,331 | 5.2 |
| Professional and business services | 14.4 | 274.3 | 5.9 | 1,108 | 5.8 |
| Education and health services .................................. | 6.6 | 144.7 | 6.6 | 968 | 6.8 |
| Leisure and hospitality | 5.2 | 131.2 | 3.6 | 430 | 2.6 |
| Other services | 6.4 | 40.6 | 1.2 | 602 | 2.9 |
| Government ........ | . 5 | 162.5 | 2.9 | 920 | 5.0 |
| San Diego, CA | 91.7 | 1,334.7 | . 2 | 890 | 4.8 |
| Private industry | 90.4 | 1,108.8 | -. 1 | 868 | 4.7 |
| Natural resources and mining | . 8 | 11.6 | -4.1 | 540 | 4.0 |
| Construction ......................... | 7.2 | 90.9 | -6.5 | 916 | 6.3 |
| Manufacturing | 3.2 | 102.4 | $\left({ }^{4}\right)$ | 1,190 | 6.6 |
| Trade, transportation, and utilities | 14.6 | 219.8 | . 3 | 730 | 5.8 |
| Information | 1.3 | 37.5 | . 5 | 1,873 | 1.7 |
| Financial activities | 9.9 | 81.5 | -3.3 | 1,108 | 3.5 |
| Professional and business services | 16.4 | 217.9 | . 6 | 1,076 | 6.0 |
| Education and health services ..................................... | 8.0 | 127.1 | ${ }^{4}$ ) | 812 | 4.1 |
| Leisure and hospitality | 6.9 | 163.6 | 2.8 | 389 | 3.5 |
| Other services ........................ | 22.1 | 56.6 | 1.1 | 482 | 2.8 |
| Government ........ | 1.3 | 225.9 | 1.7 | 996 | 4.8 |
| King, WA | 75.9 | 1,182.2 | 2.9 | 1,028 | 3.8 |
| Private industry | 75.4 | 1,027.6 | 3.3 | 1,033 | 3.5 |
| Natural resources and mining ....................................... | . 4 | 3.3 | 3.4 | 1,224 | 1.4 |
| Construction ..... | 6.8 | 72.9 | 11.0 | 1,002 | 6.5 |
| Manufacturing | 2.5 | 112.0 | 1.9 | 1,386 | . 8 |
| Trade, transportation, and utilities .................................. | 14.8 | 219.5 | 2.0 | 903 | 6.1 |
| Information | 1.8 | 75.8 | 5.0 | 1,829 | 4.1 |
| Financial activities | 7.0 | 76.4 | -1.0 | 1,272 | 3.3 |
| Professional and business services ................................. | 12.9 | 188.1 | 4.4 | 1,180 | 1.1 |
| Education and health services ..................................... | 6.3 | 120.6 | 2.7 | 812 | 4.5 |
| Leisure and hospitality ............................................... | 6.0 | 113.7 | 3.9 | 427 | 2.4 |
| Other services ............................................................ | 16.7 | 45.4 | . 9 | 571 | 7.9 |
| Government | . 5 | 154.6 | . 6 | 995 | 6.0 |
| Miami-Dade, FL | 85.9 | 1,002.1 | 1.0 | 814 | 3.8 |
| Private industry | 85.6 | 868.2 | . 8 | 788 | 3.7 |
| Natural resources and mining ........................................ | . 5 | 9.2 | . 3 | 496 | 6.0 |
| Construction ......................................................... | 6.2 | 53.5 | 1.5 | 841 | -1.1 |
| Manufacturing ............................................................. | 2.6 | 48.0 | -1.7 | 735 | 1.9 |
| Trade, transportation, and utilities .................................. | 23.1 | 252.6 | . 9 | 747 | 2.3 |
| Information ............................................................ | 1.5 | 20.7 | -. 7 | 1,163 | 4.6 |
| Financial activities ..................................................... | 10.4 | 71.6 | -. 9 | 1,161 | 5.6 |
| Professional and business services .............................. | 17.3 | 136.4 | -1.5 | 949 | 7.5 |
| Education and health services ..................................... | 8.9 | 135.4 | 3.1 | 796 | 4.6 |
| Leisure and hospitality ................................................ | 5.7 | 101.8 | 1.3 | 458 | 2.5 |
| Other services ........................................................... | 7.6 | 35.7 | 1.9 | 525 | 5.8 |
| Government ................................................................. | . 3 | 133.9 | 2.4 | 969 | 4.8 |

1 Average weekly wages were calculated using unrounded data.
2 Percent changes were computed from quarterly employment and pay data adjusted for noneconomic county reclassifications. See Notes on Current Labor Statistics.

3 Totals for the United States do not include data for Puerto Rico or the

Virgin Islands.
4 Data do not meet BLS or State agency disclosure standards.
NOTE: Includes workers covered by Unemployment Insurance (UI) and Unemployment Compensation for Federal Employees (UCFE) programs. Data are preliminary.
23. Quarterly Census of Employment and Wages: by State, second quarter 2007.

| State | Establishments, second quarter 2007 (thousands) | Employment |  | Average weekly wage ${ }^{1}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} \text { June } \\ 2007 \\ \text { (thousands) } \end{gathered}$ | $\begin{aligned} & \text { Percent change, } \\ & \text { June } \\ & 2006-07 \end{aligned}$ | Second quarter 2007 | Percent change, second quarter 2006-07 |
| United States ${ }^{2}$............................... | 8,945.9 | 137,018.2 | 1.2 | \$820 | 4.6 |
| Alabama ...................................... | 120.1 | 1,965.4 | 1.1 | 697 | 3.6 |
| Alaska .................................... | 21.1 | 325.8 | -. 5 | 832 | 5.6 |
| Arizona ........................................ | 158.9 | 2,612.4 | 1.2 | 786 | 4.4 |
| Arkansas .................................... | 82.7 | 1,186.5 | . 3 | 639 | 4.2 |
| California ...................................... | 1,291.3 | 15,832.5 | . 8 | 935 | 5.4 |
| Colorado | 179.4 | 2,326.9 | 2.2 | 832 | 4.8 |
| Connecticut | 112.5 | 1,714.2 | . 9 | 1,033 | 6.4 |
| Delaware. | 29.1 | 430.2 | . 0 | 870 | 2.2 |
| District of Columbia ....................... | 31.9 | 683.2 | . 8 | 1,357 | 4.3 |
| Florida ......................................... | 604.8 | 7,894.2 | . 2 | 743 | 3.2 |
| Georgia ....................................... | 270.4 | 4,091.5 | 1.4 | 792 | 6.5 |
| Hawaii ...................................... | 38.6 | 631.2 | 1.4 | 736 | 4.2 |
| Idaho ......................................... | 57.1 | 679.1 | 3.0 | 626 | 2.3 |
| Illinois | 358.6 | 5,956.3 | . 8 | 874 | 4.4 |
| Indiana | 158.2 | 2,933.4 | . 5 | 702 | 2.6 |
| lowa | 93.4 | 1,518.6 | . 9 | 664 | 3.9 |
| Kansas | 85.7 | 1,370.7 | 2.0 | 702 | 4.8 |
| Kentucky | 109.8 | 1,828.2 | 1.7 | 700 | 4.2 |
| Louisiana | 119.9 | 1,880.2 | 3.2 | 711 | 4.1 |
| Maine ......................................... | 50.0 | 619.6 | . 6 | 658 | 4.1 |
| Maryland ...................................... | 164.0 | 2,584.9 | . 7 | 899 | 5.3 |
| Massachusetts | 210.1 | 3,300.7 | 1.2 | 1,008 | 4.8 |
| Michigan . | 257.1 | 4,252.9 | -1.4 | 807 | 2.9 |
| Minnesota | 170.7 | 2,730.9 | . 0 | 834 | 5.6 |
| Mississippi | 69.7 | 1,137.4 | . 9 | 609 | 3.6 |
| Missouri . | 174.7 | 2,764.6 | . 8 | 727 | 3.4 |
| Montana | 42.3 | 449.8 | 1.7 | 611 | 6.3 |
| Nebraska | 58.7 | 930.9 | 1.6 | 654 | 3.5 |
| Nevada ..... | 74.7 | 1,297.9 | 1.0 | 776 | 3.7 |
| New Hampshire ............................ | 49.0 | 643.7 | . 7 | 823 | 6.3 |
| New Jersey ................................... | 278.1 | 4,066.7 | . 4 | 989 | 4.3 |
| New Mexico .................................. | 53.7 | 833.3 | 1.1 | 686 | 5.2 |
| New York | 576.8 | 8,688.8 | 1.3 | 1,020 | 5.9 |
| North Carolina | 251.0 | 4,090.5 | 3.0 | 718 | 4.1 |
| North Dakota ............................... | 25.1 | 347.7 | 1.5 | 619 | 4.7 |
| Ohio | 290.5 | 5,384.6 | -. 1 | 740 | 3.4 |
| Oklahoma ..................................... | 99.1 | 1,538.5 | 1.6 | 665 | 4.1 |
| Oregon | 130.8 | 1,761.6 | 1.7 | 742 | 4.5 |
| Pennsylvania ................................ | 338.7 | 5,740.3 | 1.1 | 802 | 4.6 |
| Rhode Island ................................. | 36.1 | 492.9 | . 3 | 774 | 2.5 |
| South Carolina ............................. | 115.8 | 1,917.4 | 3.0 | 665 | 2.9 |
| South Dakota | 30.1 | 404.3 | 2.1 | 590 | 4.8 |
| Tennessee .................................. | 140.7 | 2,768.7 | . 7 | 729 | 3.6 |
| Texas | 548.7 | 10,296.1 | 3.4 | 827 | 5.9 |
| Utah | 86.3 | 1,233.7 | 4.4 | 698 | 6.6 |
| Vermont ....................................... | 24.7 | 306.6 | -. 5 | 698 | 5.0 |
| Virginia ......................................... | 227.4 | 3,731.5 | 1.0 | 859 | 4.4 |
| Washington .................................. | 216.7 | 2,989.8 | 2.7 | 835 | 4.6 |
| West Virginia ................................ | 48.7 | 717.1 | . 3 | 659 | 3.6 |
| Wisconsin ..................................... | 158.2 | 2,845.8 | . 4 | 709 | 3.7 |
| Wyoming ..................................... | 24.4 | 288.3 | 3.3 | 739 | 8.0 |
| Puerto Rico ................................... | 56.9 | 1,020.7 | -1.6 | 460 | 6.0 |
| Virgin Islands ................................ | 3.4 | 46.9 | 3.4 | 707 | 4.1 |

[^18]24. Annual data: Quarterly Census of Employment and Wages, by ownership


NOTE: Data are final. Detail may not add to total due to rounding.
25. Annual data: Quarterly Census of Employment and Wages, establishment size and employment, private ownership, by supersector, first quarter 2006

| Industry, establishments, and employment | Total | Size of establishments |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Fewer than 5 workers ${ }^{1}$ | $\begin{gathered} 5 \text { to } 9 \\ \text { workers } \end{gathered}$ | 10 to 19 workers | 20 to 49 workers | 50 to 99 workers | $\begin{gathered} 100 \text { to } 249 \\ \text { workers } \end{gathered}$ | 250 to 499 workers | 500 to 999 workers | 1,000 or more workers |
| Total all indus |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter | 8,413,125 | 5,078,506 | 1,392,481 | 919,182 | 636,264 | 216,815 | 123,061 | 30,375 | 10,965 | 5,476 |
| Employment, March ........... | 111,001,540 | 7,540,432 | 9,219,319 | 12,406,793 | 19,195,647 | 14,903,811 | 18,408,166 | 10,383,792 | 7,421,575 | 11,522,005 |
| Natural resources and mining |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter | 123,076 | 69,188 | 23,230 | 15,106 | 9,842 | 3,177 | 1,783 | 516 | 175 | 59 |
| Employment, March .... | 1,631,257 | 111,354 | 153,676 | 203,446 | 296,339 | 216,952 | 267,612 | 177,858 | 115,367 | 88,653 |
| Construction |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter | 861,030 | 558,318 | 141,743 | 84,922 | 52,373 | 15,118 | 6,762 | 1,358 | 337 | 99 |
| Employment, March ............ | 7,299,087 | 823,891 | 929,155 | 1,140,245 | 1,565,409 | 1,027,718 | 994,696 | 454,918 | 220,788 | 142,267 |
| Manufacturing |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter ..... | 362,959 | 137,311 | 61,852 | 55,135 | 53,364 | 25,712 | 19,573 | 6,423 | 2,469 | 1,120 |
| Employment, March | 14,098,486 | 240,304 | 415,575 | 757,991 | 1,662,309 | 1,798,423 | 3,006,794 | 2,207,979 | 1,668,696 | 2,340,415 |
| Trade, transportation, and utilities |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter ... | 1,880,255 | 999,688 | 380,100 | 245,926 | 158,053 | 53,502 | 33,590 | 7,071 | 1,796 | 529 |
| Employment, March ............ | 25,612,515 | 1,663,203 | 2,529,630 | 3,293,292 | 4,772,401 | 3,695,250 | 5,001,143 | 2,419,416 | 1,166,322 | 1,071,858 |
| Information |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter | 142,974 | 81,209 | 21,094 | 16,356 | 13,313 | 5,553 | 3,568 | 1,141 | 512 | 228 |
| Employment, March ............ | 3,037,124 | 113,399 | 140,632 | 223,171 | 411,358 | 384,148 | 544,418 | 392,681 | 355,421 | 471,896 |
| Financial activities |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter | 836,365 | 541,333 | 151,952 | 80,853 | 40,558 | 12,146 | 6,245 | 1,890 | 928 | 460 |
| Employment, March .................... | 8,102,371 | 874,114 | 1,002,449 | 1,068,474 | 1,206,411 | 832,505 | 936,343 | 655,392 | 641,926 | 884,757 |
| Professional and business services |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter ... | 1,403,142 | 948,773 | 192,581 | 121,585 | 80,222 | 30,997 | 20,046 | 5,849 | 2,169 | 920 |
| Employment, March ............ | 17,162,560 | 1,333,479 | 1,265,155 | 1,639,285 | 2,431,806 | 2,148,736 | 3,038,221 | 1,995,309 | 1,469,170 | 1,841,399 |
| Education and health services |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter ... | 787,747 | 375,326 | 175,191 | 112,455 | 72,335 | 26,364 | 18,400 | 4,106 | 1,832 | 1,738 |
| Employment, March .............. | 16,838,748 | 684,886 | 1,163,519 | 1,512,272 | 2,177,055 | 1,835,664 | 2,754,731 | 1,400,469 | 1,282,903 | 4,027,249 |
| Leisure and hospitality |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter | 699,767 | 270,143 | 118,147 | 128,663 | 131,168 | 38,635 | 10,459 | 1,602 | 648 | 302 |
| Employment, March .................. | 12,633,387 | 430,588 | 796,935 | 1,802,270 | 3,945,588 | 2,583,745 | 1,475,115 | 540,014 | 437,645 | 621,487 |
| Other services |  |  |  |  |  |  |  |  |  |  |
| Establishments, first quarter | 1,121,269 | 912,768 | 118,306 | 56,724 | 24,734 | 5,570 | 2,629 | 418 | 99 | 21 |
| Employment, March ...................... | 4,326,368 | 1,087,667 | 771,276 | 747,842 | 718,557 | 377,961 | 388,231 | 139,473 | 63,337 | 32,024 |

1 Includes establishments that reported no workers in March 2006.
NOTE: Data are final. Detail may not add to total due to rounding.
2 Includes data for unclassified establishments, not shown separately.
26. Average annual wages for 2005 and 2006 for all covered workers ${ }^{1}$ by metropolitan area

| Metropolitan area² | Average annual wages ${ }^{3}$ |  |  |
| :---: | :---: | :---: | :---: |
|  | 2005 | 2006 | Percent change, 2005-06 |
| Metropolitan areas ${ }^{4}$ | \$42,253 | \$44,165 | 4.5 |
| Abilene, TX | 27,876 | 29,842 | 7.1 |
| Aguadilla-Isabela-San Sebastian, PR | 18,717 | 19,277 | 3.0 |
| Akron, OH | 37,471 | 38,088 | 1.6 |
| Albany, GA | 31,741 | 32,335 | 1.9 |
| Albany-Schenectady-Troy, NY | 39,201 | 41,027 | 4.7 |
| Albuquerque, NM ........... | 35,665 | 36,934 | 3.6 |
| Alexandria, LA | 30,114 | 31,329 | 4.0 |
| Allentown-Bethlehem-Easton, PA-NJ | 38,506 | 39,787 | 3.3 |
| Altoona, PA | 29,642 | 30,394 | 2.5 |
| Amarillo, TX | 31,954 | 33,574 | 5.1 |
| Ames, IA | 33,889 | 35,331 | 4.3 |
| Anchorage, AK | 41,712 | 42,955 | 3.0 |
| Anderson, IN | 31,418 | 32,184 | 2.4 |
| Anderson, SC | 29,463 | 30,373 | 3.1 |
| Ann Arbor, MI | 45,820 | 47,186 | 3.0 |
| Anniston-Oxford, AL | 31,231 | 32,724 | 4.8 |
| Appleton, WI | 34,431 | 35,308 | 2.5 |
| Asheville, NC | 30,926 | 32,268 | 4.3 |
| Athens-Clarke County, GA | 32,512 | 33,485 | 3.0 |
| Atlanta-Sandy Springs-Marietta, GA | 44,595 | 45,889 | 2.9 |
| Atlantic City, NJ | 36,735 | 38,018 | 3.5 |
| Auburn-Opelika, AL | 29,196 | 30,468 | 4.4 |
| Augusta-Richmond County, GA-SC | 34,588 | 35,638 | 3.0 |
| Austin-Round Rock, TX | 43,500 | 45,737 | 5.1 |
| Bakersfield, CA | 34,165 | 36,020 | 5.4 |
| Baltimore-Towson, MD | 43,486 | 45,177 | 3.9 |
| Bangor, ME ............ | 30,707 | 31,746 | 3.4 |
| Barnstable Town, MA | 35,123 | 36,437 | 3.7 |
| Baton Rouge, LA | 34,523 | 37,245 | 7.9 |
| Battle Creek, MI | 37,994 | 39,362 | 3.6 |
| Bay City, MI | 33,572 | 35,094 | 4.5 |
| Beaumont-Port Arthur, TX | 36,530 | 39,026 | 6.8 |
| Bellingham, WA | 31,128 | 32,618 | 4.8 |
| Bend, OR | 31,492 | 33,319 | 5.8 |
| Billings, MT | 31,748 | 33,270 | 4.8 |
| Binghamton, NY | 33,290 | 35,048 | 5.3 |
| Birmingham-Hoover, AL | 39,353 | 40,798 | 3.7 |
| Bismarck, ND | 31,504 | 32,550 | 3.3 |
| Blacksburg-Christiansburg-Radford, VA | 32,196 | 34,024 | 5.7 |
| Bloomington, IN ......................... | 30,080 | 30,913 | 2.8 |
| Bloomington-Normal, IL | 39,404 | 41,359 | 5.0 |
| Boise City-Nampa, ID | 34,623 | 36,734 | 6.1 |
| Boston-Cambridge-Quincy, MA-NH | 54,199 | 56,809 | 4.8 |
| Boulder, CO | 49,115 | 50,944 | 3.7 |
| Bowling Green, KY | 31,306 | 32,529 | 3.9 |
| Bremerton-Silverdale, WA | 36,467 | 37,694 | 3.4 |
| Bridgeport-Stamford-Norwalk, CT | 71,095 | 74,890 | 5.3 |
| Brownsville-Harlingen, TX | 24,893 | 25,795 | 3.6 |
| Brunswick, GA | 30,902 | 32,717 | 5.9 |
| Buffalo-Niagara Falls, NY | 35,302 | 36,950 | 4.7 |
| Burlington, NC | 31,084 | 32,835 | 5.6 |
| Burlington-South Burlington, VT | 38,582 | 40,548 | 5.1 |
| Canton-Massillon, OH | 32,080 | 33,132 | 3.3 |
| Cape Coral-Fort Myers, FL | 35,649 | 37,065 | 4.0 |
| Carson City, NV ......... | 38,428 | 40,115 | 4.4 |
| Casper, WY | 34,810 | 38,307 | 10.0 |
| Cedar Rapids, IA | 37,902 | 38,976 | 2.8 |
| Champaign-Urbana, IL | 33,278 | 34,422 | 3.4 |
| Charleston, WV | 35,363 | 36,887 | 4.3 |
| Charleston-North Charleston, SC ...... | 33,896 | 35,267 | 4.0 |
| Charlotte-Gastonia-Concord, NC-SC | 43,728 | 45,732 | 4.6 |
| Charlottesville, VA ..... | 37,392 | 39,051 | 4.4 |
| Chattanooga, TN-GA | 33,743 | 35,358 | 4.8 |
| Cheyenne, WY | 32,208 | 35,306 | 9.6 |
| Chicago-Naperville-Joliet, IL-IN-WI | 46,609 | 48,631 | 4.3 |
| Chico, CA | 30,007 | 31,557 | 5.2 |
| Cincinnati-Middletown, OH-KY-IN | 40,343 | 41,447 | 2.7 |
| Clarksville, TN-KY | 29,870 | 30,949 | 3.6 |
| Cleveland, TN | 32,030 | 33,075 | 3.3 |
| Cleveland-Elyria-Mentor, OH ............... | 39,973 | 41,325 | 3.4 |
| Coeur d'Alene, ID | 28,208 | 29,797 | 5.6 |
| College Station-Bryan, TX | 29,032 | 30,239 | 4.2 |
| Colorado Springs, CO | 37,268 | 38,325 | 2.8 |
| Columbia, MO ... | 31,263 | 32,207 | 3.0 |
| Columbia, SC | 33,386 | 35,209 | 5.5 |
| Columbus, GA-AL | 31,370 | 32,334 | 3.1 |
| Columbus, IN | 38,446 | 40,107 | 4.3 |
| Columbus, OH | 39,806 | 41,168 | 3.4 |
| Corpus Christi, TX | 32,975 | 35,399 | 7.4 |
| Corvallis, OR | 39,357 | 40,586 | 3.1 |

See footnotes at end of table.
26. Average annual wages for 2005 and 2006 for all covered workers' by metropolitan area - Continued


See footnotes at end of table.
26. Average annual wages for 2005 and 2006 for all covered workers' by metropolitan area - Continued

| Metropolitan area² | Average annual wages ${ }^{3}$ |  |  |
| :---: | :---: | :---: | :---: |
|  | 2005 | 2006 | Percent change, 2005-06 |
| Jackson, TN | \$33,286 | \$34,477 | 3.6 |
| Jacksonville, FL | 38,224 | 40,192 | 5.1 |
| Jacksonville, NC | 24,803 | 25,854 | 4.2 |
| Janesville, WI | 34,107 | 36,732 | 7.7 |
| Jefferson City, MO | 30,991 | 31,771 | 2.5 |
| Johnson City, TN | 29,840 | 31,058 | 4.1 |
| Johnstown, PA | 29,335 | 29,972 | 2.2 |
| Jonesboro, AR | 28,550 | 28,972 | 1.5 |
| Joplin, MO | 29,152 | 30,111 | 3.3 |
| Kalamazoo-Portage, MI | 36,042 | 37,099 | 2.9 |
| Kankakee-Bradley, IL | 31,802 | 32,389 | 1.8 |
| Kansas City, MO-KS | 39,749 | 41,320 | 4.0 |
| Kennewick-Richland-Pasco, WA ................................. | 38,453 | 38,750 | 0.8 |
| Killeen-Temple-Fort Hood, TX | 30,028 | 31,511 | 4.9 |
| Kingsport-Bristol-Bristol, TN-VA | 33,568 | 35,100 | 4.6 |
| Kingston, NY | 30,752 | 33,697 | 9.6 |
| Knoxville, TN | 35,724 | 37,216 | 4.2 |
| Kokomo, IN | 44,462 | 45,808 | 3.0 |
| La Crosse, WI-MN | 31,029 | 31,819 | 2.5 |
| Lafayette, IN | 35,176 | 35,380 | 0.6 |
| Lafayette, LA | 34,729 | 38,170 | 9.9 |
| Lake Charles, LA | 33,728 | 35,883 | 6.4 |
| Lakeland, FL | 32,235 | 33,530 | 4.0 |
| Lancaster, PA | 35,264 | 36,171 | 2.6 |
| Lansing-East Lansing, MI | 38,135 | 39,890 | 4.6 |
| Laredo, TX | 27,401 | 28,051 | 2.4 |
| Las Cruces, NM | 28,569 | 29,969 | 4.9 |
| Las Vegas-Paradise, NV | 38,940 | 40,139 | 3.1 |
| Lawrence, KS | 28,492 | 29,896 | 4.9 |
| Lawton, OK | 28,459 | 29,830 | 4.8 |
| Lebanon, PA | 30,704 | 31,790 | 3.5 |
| Lewiston, ID-WA | 29,414 | 30,776 | 4.6 |
| Lewiston-Auburn, ME | 31,008 | 32,231 | 3.9 |
| Lexington-Fayette, KY | 36,683 | 37,926 | 3.4 |
| Lima, OH | 32,630 | 33,790 | 3.6 |
| Lincoln, NE | 32,711 | 33,703 | 3.0 |
| Little Rock-North Little Rock, AR | 34,920 | 36,169 | 3.6 |
| Logan, UT-ID | 25,869 | 26,766 | 3.5 |
| Longview, TX | 32,603 | 35,055 | 7.5 |
| Longview, WA | 33,993 | 35,140 | 3.4 |
| Los Angeles-Long Beach-Santa Ana, CA | 46,592 | 48,680 | 4.5 |
| Louisville, KY-IN | 37,144 | 38,673 | 4.1 |
| Lubbock, TX | 30,174 | 31,977 | 6.0 |
| Lynchburg, VA | 32,025 | 33,242 | 3.8 |
| Macon, GA | 33,110 | 34,126 | 3.1 |
| Madera, CA | 29,356 | 31,213 | 6.3 |
| Madison, WI | 38,210 | 40,007 | 4.7 |
| Manchester-Nashua, NH | 45,066 | 46,659 | 3.5 |
| Mansfield, OH | 32,688 | 33,171 | 1.5 |
| Mayaguez, PR | 19,597 | 20,619 | 5.2 |
| McAllen-Edinburg-Pharr, TX | 25,315 | 26,712 | 5.5 |
| Medford, OR | 30,502 | 31,697 | 3.9 |
| Memphis, TN-MS-AR | 39,094 | 40,580 | 3.8 |
| Merced, CA | 30,209 | 31,147 | 3.1 |
| Miami-Fort Lauderdale-Miami Beach, FL | 40,174 | 42,175 | 5.0 |
| Michigan City-La Porte, IN | 30,724 | 31,383 | 2.1 |
| Midland, TX | 38,267 | 42,625 | 11.4 |
| Milwaukee-Waukesha-West Allis, WI | 40,181 | 42,049 | 4.6 |
| Minneapolis-St. Paul-Bloomington, MN-WI | 45,507 | 46,931 | 3.1 |
| Missoula, MT .......................... | 29,627 | 30,652 | 3.5 |
| Mobile, AL | 33,496 | 36,126 | 7.9 |
| Modesto, CA | 34,325 | 35,468 | 3.3 |
| Monroe, LA | 29,264 | 30,618 | 4.6 |
| Monroe, MI | 39,449 | 40,938 | 3.8 |
| Montgomery, AL | 33,441 | 35,383 | 5.8 |
| Morgantown, WV ........................................................ | 31,529 | 32,608 | 3.4 |
| Morristown, TN | 31,215 | 31,914 | 2.2 |
| Mount Vernon-Anacortes, WA | 31,387 | 32,851 | 4.7 |
| Muncie, IN | 32,172 | 30,691 | -4.6 |
| Muskegon-Norton Shores, MI ........................................... | 33,035 | 33,949 | 2.8 |
| Myrtle Beach-Conway-North Myrtle Beach, SC | 26,642 | 27,905 | 4.7 |
| Napa, CA | 40,180 | 41,788 | 4.0 |
| Naples-Marco Island, FL | 38,211 | 39,320 | 2.9 |
| Nashville-Davidson--Murfreesboro, TN ......................... | 38,753 | 41,003 | 5.8 |
| New Haven-Milford, CT | 43,931 | 44,892 | 2.2 |
| New Orleans-Metairie-Kenner, LA | 37,239 | 42,434 | 14.0 |
| New York-Northern New Jersey-Long Island, NY-NJ-PA ...... | 57,660 | 61,388 | 6.5 |
| Niles-Benton Harbor, MI ........................................... | 35,029 | 36,967 | 5.5 |
| Norwich-New London, CT | 42,151 | 43,184 | 2.5 |
| Ocala, FL ..................................................................... | 30,008 | 31,330 | 4.4 |

See footnotes at end of table.
26. Average annual wages for 2005 and 2006 for all covered workers ${ }^{1}$ by metropolitan area - Continued

| Metropolitan area² | Average annual wages ${ }^{3}$ |  |  |
| :---: | :---: | :---: | :---: |
|  | 2005 | 2006 | Percent change, 2005-06 |
| Ocean City, NJ | \$31,033 | \$31,801 | 2.5 |
| Odessa, TX .... | +33,475 | 37,144 | 11.0 |
| Ogden-Clearfield, UT | 31,195 | 32,890 | 5.4 |
| Oklahoma City, OK | 33,142 | 35,846 | 8.2 |
| Olympia, WA | 36,230 | 37,787 | 4.3 |
| Omaha-Council Bluffs, NE-IA | 36,329 | 38,139 | 5.0 |
| Orlando, FL | 36,466 | 37,776 | 3.6 |
| Oshkosh-Neenah, WI | 38,820 | 39,538 | 1.8 |
| Owensboro, KY | 31,379 44,597 | 32,491 45,467 | 3.5 2.0 |
| Palm Bay-Melbourne-Titusville, FL | 38,287 | 39,778 | 3.9 |
| Panama City-Lynn Haven, FL | 31,894 | 33,341 | 4.5 |
| Parkersburg-Marietta, WV-OH | 30,747 | 32,213 | 4.8 |
| Pascagoula, MS | 34,735 | 36,287 | 4.5 |
| Pensacola-Ferry Pass-Brent, FL | 32,064 | 33,530 | 4.6 |
| Peoria, IL | 39,871 | 42,283 | 6.0 |
| Philadelphia-Camden-Wilmington, PA-NJ-DE-MD | 46,454 | 48,647 | 4.7 |
| Phoenix-Mesa-Scottsdale, AZ | 40,245 | 42,220 | 4.9 |
| Pine Bluff, AR | 30,794 | 32,115 | 4.3 |
| Pittsburgh, PA | 38,809 | 40,759 | 5.0 |
| Pittsfield, MA | 35,807 | 36,707 | 2.5 |
| Pocatello, ID | 27,686 | 28,418 | 2.6 |
| Ponce, PR | 19,660 | 20,266 | 3.1 |
| Portland-South Portland-Biddeford, ME | 35,857 | 36,979 | 3.1 |
| Portland-Vancouver-Beaverton, OR-WA | 41,048 | 42,607 | 3.8 |
| Port St. Lucie-Fort Pierce, FL | 33,235 | 34,408 | 3.5 |
| Poughkeepsie-Newburgh-Middletown, NY | 38,187 | 39,528 | 3.5 |
| Prescott, AZ | 29,295 | 30,625 | 4.5 |
| Providence-New Bedford-Fall River, RI-MA | 37,796 | 39,428 | 4.3 |
| Provo-Orem, UT | 30,395 | 32,308 | 6.3 |
| Pueblo, CO | 30,165 | 30,941 | 2.6 |
| Punta Gorda, FL | 31,937 | 32,370 | 1.4 |
| Racine, WI | 37,659 | 39,002 | 3.6 |
| Raleigh-Cary, NC | 39,465 | 41,205 | 4.4 |
| Rapid City, SD | 28,758 | 29,920 | 4.0 |
| Reading, PA | 36,210 | 38,048 | 5.1 |
| Redding, CA | 32,139 | 33,307 | 3.6 |
| Reno-Sparks, NV | 38,453 | 39,537 | 2.8 |
| Richmond, VA | 41,274 | 42,495 | 3.0 |
| Riverside-San Bernardino-Ontario, CA | 35,201 | 36,668 | 4.2 |
| Roanoke, VA | 32,987 | 33,912 | 2.8 |
| Rochester, MN | 41,296 | 42,941 | 4.0 |
| Rochester, NY | 37,991 | 39,481 | 3.9 |
| Rockford, IL | 35,652 | 37,424 | 5.0 |
| Rocky Mount, NC | 30,983 | 31,556 | 1.8 |
| Rome, GA | 33,896 | 34,850 | 2.8 |
| Sacramento--Arden-Arcade--Roseville, CA | 42,800 | 44,552 | 4.1 |
| Saginaw-Saginaw Township North, MI | 36,325 | 37,747 | 3.9 |
| St. Cloud, MN | 31,705 | 33,018 | 4.1 |
| St. George, UT | 26,046 | 28,034 | 7.6 |
| St. Joseph, MO-KS | 30,009 | 31,253 | 4.1 |
| St. Louis, MO-IL | 39,985 | 41,354 | 3.4 |
| Salem, OR | 31,289 | 32,764 | 4.7 |
| Salinas, CA | 36,067 | 37,974 | 5.3 |
| Salisbury, MD | 32,240 | 33,223 | 3.0 |
| Salt Lake City, UT | 36,857 | 38,630 | 4.8 |
| San Angelo, TX | 29,530 | 30,168 | 2.2 |
| San Antonio, TX | 35,097 | 36,763 | 4.7 |
| San Diego-Carlsbad-San Marcos, CA | 43,824 | 45,784 | 4.5 |
| Sandusky, OH | 32,631 | 33,526 | 2.7 |
| San Francisco-Oakland-Fremont, CA | 58,634 | 61,343 | 4.6 |
| San German-Cabo Rojo, PR ......... | 18,745 | 19,498 | 4.0 |
| San Jose-Sunnyvale-Santa Clara, CA | 71,970 | 76,608 | 6.4 |
| San Juan-Caguas-Guaynabo, PR | 23,952 | 24,812 | 3.6 |
| San Luis Obispo-Paso Robles, CA | 33,759 | 35,146 | 4.1 |
| Santa Barbara-Santa Maria-Goleta, CA | 39,080 | 40,326 | 3.2 |
| Santa Cruz-Watsonville, CA ............... | 38,016 | 40,776 | 7.3 |
| Santa Fe, NM | 33,253 | 35,320 | 6.2 |
| Santa Rosa-Petaluma, CA | 40,017 | 41,533 | 3.8 |
| Sarasota-Bradenton-Venice, FL ..... | 33,905 | 35,751 | 5.4 |
| Savannah, GA | 34,104 | 35,684 | 4.6 |
| Scranton--Wilkes-Barre, PA | 32,057 | 32,813 | 2.4 |
| Seattle-Tacoma-Bellevue, WA | 46,644 | 49,455 | 6.0 |
| Sheboygan, WI | 35,067 | 35,908 | 2.4 |
| Sherman-Denison, TX | 32,800 | 34,166 | 4.2 |
| Shreveport-Bossier City, LA | 31,962 | 33,678 | 5.4 |
| Sioux City, IA-NE-SD .. | 31,122 | 31,826 | 2.3 |
| Sioux Falls, SD | 33,257 | 34,542 | 3.9 |
| South Bend-Mishawaka, IN-MI | 34,086 | 35,089 | 2.9 |
| Spartanburg, SC . | 35,526 | 37,077 | 4.4 |

See footnotes at end of table

## 26. Average annual wages for 2005 and 2006 for all covered workers' by metropolitan area - Continued

| Metropolitan area² | Average annual wages ${ }^{3}$ |  |  |
| :---: | :---: | :---: | :---: |
|  | 2005 | 2006 | Percent change, 2005-06 |
| Spokane, WA | \$32,621 | \$34,016 | 4.3 |
| Springfield, IL | 39,299 | 40,679 | 3.5 |
| Springfield, MA | 36,791 | 37,962 | 3.2 |
| Springfield, MO | 30,124 | 30,786 | 2.2 |
| Springfield, OH | 30,814 | 31,844 | 3.3 |
| State College, PA | 34,109 | 35,392 | 3.8 |
| Stockton, CA | 35,030 | 36,426 | 4.0 |
| Sumter, SC | 27,469 | 29,294 | 6.6 |
| Syracuse, NY | 36,494 | 38,081 | 4.3 |
| Tallahassee, FL | 33,548 | 35,018 | 4.4 |
| Tampa-St. Petersburg-Clearwater, FL | 36,374 | 38,016 | 4.5 |
| Terre Haute, IN | 30,597 | 31,341 | 2.4 |
| Texarkana, TX-Texarkana, AR | 31,302 | 32,545 | 4.0 |
| Toledo, OH ..................... | 35,848 | 37,039 | 3.3 |
| Topeka, KS | 33,303 | 34,806 | 4.5 |
| Trenton-Ewing, NJ | 52,034 | 54,274 | 4.3 |
| Tucson, AZ | 35,650 | 37,119 | 4.1 |
| Tulsa, OK | 35,211 | 37,637 | 6.9 |
| Tuscaloosa, AL | 34,124 | 35,613 | 4.4 |
| Tyler, TX .. | 34,731 | 36,173 | 4.2 |
| Utica-Rome, NY | 30,902 | 32,457 | 5.0 |
| Valdosta, GA | 25,712 | 26,794 | 4.2 |
| Vallejo-Fairfield, CA | 38,431 | 40,225 | 4.7 |
| Vero Beach, FL | 32,591 | 33,823 | 3.8 |
| Victoria, TX | 34,327 | 36,642 | 6.7 |
| Vineland-Millville-Bridgeton, NJ | 36,387 | 37,749 | 3.7 |
| Virginia Beach-Norfolk-Newport News, VA-NC | 34,580 | 36,071 | 4.3 |
| Visalia-Porterville, CA | 28,582 | 29,772 | 4.2 |
| Waco, TX | 32,325 | 33,450 | 3.5 |
| Warner Robins, GA | 36,762 | 38,087 | 3.6 |
| Washington-Arlington-Alexandria, DC-VA-MD-WV | 55,525 | 58,057 | 4.6 |
| Waterloo-Cedar Falls, IA .................................. | 33,123 | 34,329 | 3.6 |
| Wausau, WI | 33,259 | 34,438 | 3.5 |
| Weirton-Steubenville, WV-OH | 30,596 | 31,416 | 2.7 |
| Wenatchee, WA | 27,163 | 28,340 | 4.3 |
| Wheeling, WV-OH | 29,808 | 30,620 | 2.7 |
| Wichita, KS ....... | 35,976 | 38,763 | 7.7 |
| Wichita Falls, TX | 29,343 | 30,785 | 4.9 |
| Williamsport, PA | 30,699 | 31,431 | 2.4 |
| Wilmington, NC | 31,792 | 32,948 | 3.6 |
| Winchester, VA-WV | 33,787 | 34,895 | 3.3 |
| Winston-Salem, NC | 36,654 | 37,712 | 2.9 |
| Worcester, MA | 41,094 | 42,726 | 4.0 |
| Yakima, WA | 27,334 | 28,401 | 3.9 |
| Yauco, PR | 17,818 | 19,001 | 6.6 |
| York-Hanover, PA | 36,834 | 37,226 | 1.1 |
| Youngstown-Warren-Boardman, OH-PA | 32,176 | 33,852 | 5.2 |
| Yuba City, CA | 32,133 | 33,642 | 4.7 |
| Yuma, AZ ...... | 27,168 | 28,369 | 4.4 |
| 1 Includes workers covered by Unemployment | ${ }^{3}$ Each year's total is based on the MSA definition for the specific year. Annual changes include differences resulting from changes in MSA definitions. |  |  |
| Insurance (UI) and Unemployment Compensation for Federal Employees (UCFE) programs. |  |  |  |
| ${ }^{2}$ Includes data for Metropolitan Statistical Areas (MSA) as defined by OMB Bulletin No. 04-03 as of February 18, 2004. | ${ }^{4}$ Totals do not include the six MSAs within Puerto Rico. |  |  |

## 27. Annual data: Employment status of the population

[Numbers in thousands]

| Employment status | 1997 | $1998{ }^{1}$ | $1999{ }^{1}$ | $2000{ }^{1}$ | $2001{ }^{1}$ | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Civilian noninstitutional population... | 203,133 | 205,220 | 207,753 | 212,577 | 215,092 | 217,570 | 221,168 | 223,357 | 226,082 | 228,815 | 231,867 |
| Civilian labor force.. | 136,297 | 137,673 | 139,368 | 142,583 | 143,734 | 144,863 | 146,510 | 147,401 | 149,320 | 151,428 | 153,124 |
| Labor force participation rate. | 67.1 | 67.1 | 67.1 | 67.1 | 66.8 | 66.6 | 66.2 | 66 | 66 | 66.2 | 66 |
| Employed... | 129,558 | 131,463 | 133,488 | 136,891 | 136,933 | 136,485 | 137,736 | 139,252 | 141,730 | 144,427 | 146,047 |
| Employment-population ratio.. | 63.8 | 64.1 | 64.3 | 64.4 | 63.7 | 62.7 | 62.3 | 62.3 | 62.7 | 63.1 | 63 |
| Unemployed.. | 6,739 | 6,210 | 5,880 | 5,692 | 6,801 | 8,378 | 8,774 | 8,149 | 7,591 | 7,001 | 7,078 |
| Unemployment rate. | 4.9 | 4.5 | 4.2 | 4 | 4.7 | 5.8 | 6 | 5.5 | 5.1 | 4.6 | 4.6 |
| Not in the labor force....................... | 66,837 | 67,547 | 68,385 | 69,994 | 71,359 | 72,707 | 74,658 | 75,956 | 76,762 | 77,387 | 78,743 |

${ }^{1}$ Not strictly comparable with prior years
28. Annual data: Employment levels by industry
[In thousands]

| Industry | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total private employment. | 103,113 | 106,021 | 108,686 | 110,996 | 110,707 | 108,828 | 108,416 | 109,814 | 111,899 | 114,184 | 115,717 |
| Total nonfarm employment. | 122,776 | 125,930 | 128,993 | 131,785 | 131,826 | 130,341 | 129,999 | 131,435 | 133,703 | 136,174 | 137,969 |
| Goods-producing. | 23,886 | 24,354 | 24,465 | 24,649 | 23,873 | 22,557 | 21,816 | 21,882 | 22,190 | 22,570 | 22,378 |
| Natural resources and mining.. | 654 | 645 | 598 | 599 | 606 | 583 | 572 | 591 | 628 | 684 | 722 |
| Construction.. | 5,813 | 6,149 | 6,545 | 6,787 | 6,826 | 6,716 | 6,735 | 6,976 | 7,336 | 7,689 | 7,624 |
| Manufacturing... | 17,419 | 17,560 | 17,322 | 17,263 | 16,441 | 15,259 | 14,510 | 14,315 | 14,226 | 14,197 | 14,032 |
| Private service-providing... | 79,227 | 81,667 | 84,221 | 86,346 | 86,834 | 86,271 | 86,599 | 87,932 | 89,709 | 91,615 | 93,339 |
| Trade, transportation, and utilities.... | 24,700 | 25,186 | 25,771 | 26,225 | 25,983 | 25,497 | 25,287 | 25,533 | 25,959 | 26,231 | 26,472 |
| Wholesale trade. | 5,663.90 | 5,795.20 | 5,892.50 | 5,933.20 | 5,772.70 | 5,652.30 | 5,607.50 | 5,662.90 | 5,764.40 | 5,897.60 | 6,005.30 |
| Retail trade. | 14,388.90 | 14,609.30 | 14,970.10 | 15,279.80 | 15,238.60 | 15,025.10 | 14,917.30 | 15,058.20 | 15,279.60 | 15,319.30 | 15,382.00 |
| Transportation and warehousing.... | 4,026.50 | 4,168.00 | 4,300.30 | 4,410.30 | 4,372.00 | 4,223.60 | 4,185.40 | 4,248.60 | 4,360.90 | 4,465.80 | 4,531.20 |
| Utilities. | 620.9 | 613.4 | 608.5 | 601.3 | 599.4 | 596.2 | 577 | 563.8 | 554 | 548.5 | 553.5 |
| Information. | 3,084 | 3,218 | 3,419 | 3,631 | 3,629 | 3,395 | 3,188 | 3,118 | 3,061 | 3,055 | 3,087 |
| Financial activities.. | 7,178 | 7,462 | 7,648 | 7,687 | 7,807 | 7,847 | 7,977 | 8,031 | 8,153 | 8,363 | 8,446 |
| Professional and business services. | 14,335 | 15,147 | 15,957 | 16,666 | 16,476 | 15,976 | 15,987 | 16,395 | 16,954 | 17,552 | 17,920 |
| Education and health services. | 14,087 | 14,446 | 14,798 | 15,109 | 15,645 | 16,199 | 16,588 | 16,953 | 17,372 | 17,838 | 18,377 |
| Leisure and hospitality.. | 11,018 | 11,232 | 11,543 | 11,862 | 12,036 | 11,986 | 12,173 | 12,493 | 12,816 | 13,143 | 13,565 |
| Other services. | 4,825 | 4,976 | 5,087 | 5,168 | 5,258 | 5,372 | 5,401 | 5,409 | 5,395 | 5,432 | 5,472 |
| Government. | 19,664 | 19,909 | 20,307 | 20,790 | 21,118 | 21,513 | 21,583 | 21,621 | 21,804 | 21,990 | 22,252 |

## 29. Annual data: Average hours and earnings of production or nonsupervisory workers on nonfarm

 payrolls, by industry| Industry | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Private sector: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours. | 34.5 | 34.5 | 34.3 | 34.3 | 34 | 33.9 | 33.7 | 33.7 | 33.8 | 33.9 | 33.8 |
| Average hourly earnings (in dollars). | 12.51 | 13.01 | 13.49 | 14.02 | 14.54 | 14.97 | 15.37 | 15.69 | 16.13 | 16.76 | 17.41 |
| Average weekly earnings (in dollars). | 431.86 | 448.56 | 463.15 | 481.01 | 493.79 | 506.72 | 518.06 | 529.09 | 544.33 | 567.87 | 589.36 |
| Goods-producing: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours. | 41.1 | 40.8 | 40.8 | 40.7 | 39.9 | 39.9 | 39.8 | 40 | 40.1 | 40.5 | 40.5 |
| Average hourly earnings (in dollars). | 13.82 | 14.23 | 14.71 | 15.27 | 15.78 | 16.33 | 16.8 | 17.19 | 17.6 | 18.02 | 18.64 |
| Average weekly earnings (in dollars). | 568.43 | 580.99 | 599.99 | 621.86 | 630.04 | 651.61 | 669.13 | 688.17 | 705.31 | 729.87 | 755.73 |
| Natural resources and mining Average weekly hours. | 46.2 | 44.9 | 44.2 | 44.4 | 44.6 | 43.2 | 43.6 | 44.5 | 45.6 | 45.6 | 45.9 |
| Average hourly earnings (in dollars) | 15.57 | 16.2 | 16.33 | 16.55 | 17 | 17.19 | 17.56 | 18.07 | 18.72 | 19.9 | 20.99 |
| Average weekly earnings (in dollars). | 720.11 | 727.28 | 721.74 | 734.92 | 757.92 | 741.97 | 765.94 | 803.82 | 853.71 | 908.01 | 962.54 |
| Construction: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours. | 38.9 | 38.8 | 39 | 39.2 | 38.7 | 38.4 | 38.4 | 38.3 | 38.6 | 39 | 38.9 |
| Average hourly earnings (in dollars). | 15.67 | 16.23 | 16.8 | 17.48 | 18 | 18.52 | 18.95 | 19.23 | 19.46 | 20.02 | 20.94 |
| Average weekly earnings (in dollars). | 609.48 | 629.75 | 655.11 | 685.78 | 695.89 | 711.82 | 726.83 | 735.55 | 750.22 | 781.04 | 814.83 |
| Manufacturing: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours. | 41.7 | 41.4 | 41.4 | 41.3 | 40.3 | 40.5 | 40.4 | 40.8 | 40.7 | 41.1 | 41.2 |
| Average hourly earnings (in dollars). | 13.14 | 13.45 | 13.85 | 14.32 | 14.76 | 15.29 | 15.74 | 16.15 | 16.56 | 16.8 | 17.23 |
| Average weekly earnings (in dollars). | 548.22 | 557.12 | 573.17 | 590.65 | 595.19 | 618.75 | 635.99 | 658.59 | 673.37 | 690.83 | 710.51 |
| Private service-providing: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours. | 32.8 | 32.8 | 32.7 | 32.7 | 32.5 | 32.5 | 32.4 | 32.3 | 32.4 | 32.5 | 32.4 |
| Average hourly earnings (in dollars). | 12.07 | 12.61 | 13.09 | 13.62 | 14.18 | 14.59 | 14.99 | 15.29 | 15.74 | 16.42 | 17.09 |
| Average weekly earnings (in dollars). | 395.51 | 413.5 | 427.98 | 445.74 | 461.08 | 473.8 | 484.81 | 494.22 | 509.58 | 532.84 | 554.47 |
| Trade, transportation, and utilities: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours. | 34.3 | 34.2 | 33.9 | 33.8 | 33.5 | 33.6 | 33.6 | 33.5 | 33.4 | 33.4 | 33.4 |
| Average hourly earnings (in dollars). | 11.9 | 12.39 | 12.82 | 13.31 | 13.7 | 14.02 | 14.34 | 14.58 | 14.92 | 15.4 | 15.82 |
| Average weekly earnings (in dollars). | 407.57 | 423.3 | 434.31 | 449.88 | 459.53 | 471.27 | 481.14 | 488.42 | 498.43 | 514.61 | 528.22 |
| Wholesale trade: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours. | 38.8 | 38.6 | 38.6 | 38.8 | 38.4 | 38 | 37.9 | 37.8 | 37.7 | 38 | 38.2 |
| Average hourly earnings (in dollars). | 14.41 | 15.07 | 15.62 | 16.28 | 16.77 | 16.98 | 17.36 | 17.65 | 18.16 | 18.91 | 19.56 |
| Average weekly earnings (in dollars). | 559.39 | 582.21 | 602.77 | 631.4 | 643.45 | 644.38 | 657.29 | 667.09 | 685 | 718.3 | 747.7 |
| Retail trade: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours. | 38.8 | 38.6 | 38.6 | 38.8 | 38.4 | 38 | 37.9 | 37.8 | 37.7 | 38 | 30.2 |
| Average hourly earnings (in dollars). | 14.41 | 15.07 | 15.62 | 16.28 | 16.77 | 16.98 | 17.36 | 17.65 | 18.16 | 18.91 | 12.8 |
| Average weekly earnings (in dollars). | 559.39 | 582.21 | 602.77 | 631.4 | 643.45 | 644.38 | 657.29 | 667.09 | 685 | 718.3 | 747.7 |
| Transportation and warehousing: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours.... | 39.4 | 38.7 | 37.6 | 37.4 | 36.7 | 36.8 | 36.8 | 37.2 | 37 | 36.9 | 37 |
| Average hourly earnings (in dollars). | 13.78 | 14.12 | 14.55 | 15.05 | 15.33 | 15.76 | 16.25 | 16.52 | 16.7 | 17.28 | 17.76 |
| Average weekly earnings (in dollars). | 542.55 | 546.86 | 547.97 | 562.31 | 562.7 | 579.75 | 598.41 | 614.82 | 618.58 | 637.14 | 656.95 |
| Utilities: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours. | 42 | 42 | 42 | 42 | 41.4 | 40.9 | 41.1 | 40.9 | 41.1 | 41.4 | 42.4 |
| Average hourly earnings (in dollars). | 20.59 | 21.48 | 22.03 | 22.75 | 23.58 | 23.96 | 24.77 | 25.61 | 26.68 | 27.42 | 27.93 |
| Average weekly earnings (in dollars). | 865.26 | 902.94 | 924.59 | 955.66 | 977.18 | 979.09 | 1,017.27 | 1,048.44 | 1,095.90 | 1,136.08 | 1,185.08 |
| Information: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours.. | 36.3 | 36.6 | 36.7 | 36.8 | 36.9 | 36.5 | 36.2 | 36.3 | 36.5 | 36.6 | 36.4 |
| Average hourly earnings (in dollars). | 17.14 | 17.67 | 18.4 | 19.07 | 19.8 | 20.2 | 21.01 | 21.4 | 22.06 | 23.23 | 23.92 |
| Average weekly earnings (in dollars).. | 622.4 | 646.52 | 675.32 | 700.89 | 731.11 | 738.17 | 760.81 | 777.05 | 805 | 850.81 | 871.03 |
| Financial activities: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours.. | 35.7 | 36 | 35.8 | 35.9 | 35.8 | 35.6 | 35.5 | 35.5 | 35.9 | 35.8 | 35.9 |
| Average hourly earnings (in dollars).. | 13.22 | 13.93 | 14.47 | 14.98 | 15.59 | 16.17 | 17.14 | 17.52 | 17.94 | 18.8 | 19.66 |
| Average weekly earnings (in dollars). | 472.37 | 500.95 | 517.57 | 537.37 | 558.02 | 575.51 | 609.08 | 622.87 | 645.1 | 672.4 | 706.01 |
| Professional and business services: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours... | 34.3 | 34.3 | 34.4 | 34.5 | 34.2 | 34.2 | 34.1 | 34.2 | 34.2 | 34.6 | 34.8 |
| Average hourly earnings (in dollars)... | 13.57 | 14.27 | 14.85 | 15.52 | 16.33 | 16.81 | 17.21 | 17.48 | 18.08 | 19.12 | 20.15 |
| Average weekly earnings (in dollars).. | 465.51 | 490 | 510.99 | 535.07 | 557.84 | 574.66 | 587.02 | 597.56 | 618.87 | 662.23 | 700.96 |
| Education and health services: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours.... | 32.2 | 32.2 | 32.1 | 32.2 | 32.3 | 32.4 | 32.3 | 32.4 | 32.6 | 32.5 | 32.6 |
| Average hourly earnings (in dollars). | 12.56 | 13 | 13.44 | 13.95 | 14.64 | 15.21 | 15.64 | 16.15 | 16.71 | 17.38 | 18.03 |
| Average weekly earnings (in dollars).. | 404.65 | 418.82 | 431.35 | 449.29 | 473.39 | 492.74 | 505.69 | 523.78 | 544.59 | 564.95 | 587.2 |
| Leisure and hospitality: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours...... | 26 | 26.2 | 26.1 | 26.1 | 25.8 | 25.8 | 25.6 | 25.7 | 25.7 | 25.7 | 25.5 |
| Average hourly earnings (in dollars).. | 7.32 | 7.67 | 7.96 | 8.32 | 8.57 | 8.81 | 9 | 9.15 | 9.38 | 9.75 | 10.41 |
| Average weekly earnings (in dollars)... | 190.52 | 200.82 | 208.05 | 217.2 | 220.73 | 227.17 | 230.42 | 234.86 | 241.36 | 250.11 | 265.03 |
| Other services: |  |  |  |  |  |  |  |  |  |  |  |
| Average weekly hours... | 32.7 | 32.6 | 32.5 | 32.5 | 32.3 | 32 | 31.4 | 31 | 30.9 | 30.9 | 30.9 |
| Average hourly earnings (in dollars)..... | 11.29 | 11.79 | 12.26 | 12.73 | 13.27 | 13.72 | 13.84 | 13.98 | 14.34 | 14.77 | 15.22 |
| Average weekly earnings (in dollars).... | 368.63 | 384.25 | 398.77 | 413.41 | 428.64 | 439.76 | 434.41 | 433.04 | 443.37 | 456.6 | 470.05 |

NOTE: Data reflect the conversion to the 2002 version of the North American Industry Classification System (NAICS), replacing the Standard Industrial Classification (SIC) system. NAICS-based data by industry are not comparable with SIC-based data.
30. Employment Cost Index, compensation, by occupation and industry group
[December 2005 = 100]


[^19]30. Continued-Employment Cost Index, compensation, by occupation and industry group
[December 2005 = 100]


[^20]NOTE: The Employment Cost Index data reflect the conversion to the 2002 North American Classification System (NAICS) and the 2000 Standard Occupational Classification (SOC) system. The NAICS and SOC data shown prior to 2006 are for informational purposes only. Series based on NAICS and soc became the official BLS estimates starting in March 2006.
31. Employment Cost Index, wages and salaries, by occupation and industry group [December $2005=100$ ]

| Series | 2006 |  |  | 2007 |  |  |  | 2008 |  | Percent change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | 3 months ended | 12 months ended |
|  |  |  |  |  |  |  |  |  |  | June 2008 |  |
| Civilian workers ${ }^{1}$. | 101.5 | 102.6 | 103.2 | 104.3 | 105.0 | 106.0 | 106.7 | 107.6 | 108.4 | 0.7 | 3.2 |
| Workers by occupational group |  |  |  |  |  |  |  |  |  |  |  |
| Management, professional, and related. | 101.6 | 102.9 | 103.6 | 104.7 | 105.4 | 106.6 | 107.1 | 108.2 | 109.0 | . 7 | 3.4 |
| Management, business, and financial. | 102.0 | 102.7 | 103.1 | 104.7 | 105.4 | 106.4 | 106.7 | 108.2 | 109.0 | . 7 | 3.4 |
| Professional and related. | 101.4 | 103.1 | 103.8 | 104.7 | 105.3 | 106.7 | 107.4 | 108.3 | 109.0 | . 6 | 3.5 |
| Sales and office. | 101.6 | 102.4 | 103.0 | 103.8 | 104.8 | 105.4 | 106.2 | 106.7 | 107.7 | . 9 | 2.8 |
| Sales and related. | 101.3 | 102.0 | 102.5 | 102.7 | 103.9 | 104.3 | 105.5 | 105.2 | 106.6 | 1.3 | 2.6 |
| Office and administrative support | 101.8 | 102.6 | 103.3 | 104.5 | 105.3 | 106.1 | 106.8 | 107.8 | 108.5 | . 6 | 3.0 |
| Natural resources, construction, and maintenance. | 101.8 | 102.7 | 103.4 | 104.3 | 105.1 | 106.3 | 107.1 | 108.1 | 109.0 | . 8 | 3.7 |
| Construction and extraction. | 101.9 | 102.9 | 103.7 | 104.6 | 105.7 | 106.6 | 107.7 | 109.0 | 109.9 | . 8 | 4.0 |
| Installation, maintenance, and repair. | 101.6 | 102.6 | 103.1 | 103.8 | 104.4 | 105.8 | 106.4 | 107.0 | 107.8 | . 7 | 3.3 |
| Production, transportation, and material moving. | 101.2 | 101.9 | 102.5 | 103.2 | 103.9 | 104.7 | 105.1 | 106.1 | 106.9 | . 8 | 2.9 |
| Production.. | 101.2 | 101.8 | 102.3 | 103.2 | 103.6 | 104.3 | 104.7 | 105.7 | 106.5 | . 8 | 2.8 |
| Transportation and material moving | 101.2 | 102.1 | 102.7 | 103.3 | 104.2 | 105.1 | 105.5 | 106.6 | 107.3 | . 7 | 3.0 |
| Service occupations. | 101.2 | 102.2 | 103.2 | 104.6 | 105.3 | 106.5 | 107.3 | 108.0 | 108.7 | . 6 | 3.2 |
| Workers by industry |  |  |  |  |  |  |  |  |  |  |  |
| Goods-producing | 101.8 | 102.3 | 102.9 | 103.9 | 104.7 | 105.4 | 106.0 | 107.1 | 108.0 | . 8 | 3.2 |
| Manufacturing. | 101.7 | 101.9 | 102.3 | 103.3 | 103.9 | 104.5 | 104.9 | 105.9 | 106.7 | . 8 | 2.7 |
| Service-providing. | 101.5 | 102.7 | 103.3 | 104.3 | 105.1 | 106.2 | 106.8 | 107.7 | 108.5 | . 7 | 3.2 |
| Education and health services | 101.1 | 103.1 | 103.8 | 104.4 | 104.9 | 106.6 | 107.4 | 108.0 | 108.7 | . 6 | 3.6 |
| Health care and social assistance. | 101.8 | 103.2 | 104.1 | 105.1 | 105.9 | 107.1 | 107.9 | 108.9 | 109.6 | . 6 | 3.5 |
| Hospitals. | 101.7 | 102.9 | 103.8 | 104.8 | 105.6 | 106.7 | 107.4 | 108.4 | 109.4 | . 9 | 3.6 |
| Nursing and residential care facilities. | 101.2 | 102.2 | 103.3 | 104.1 | 104.7 | 105.8 | 106.4 | 107.4 | 108.1 | . 7 | 3.2 |
| Education services........................ | 100.5 | 103.0 | 103.5 | 103.7 | 104.0 | 106.2 | 106.9 | 107.3 | 107.9 | . 6 | 3.8 |
| Elementary and secondary schools. | 100.3 | 102.9 | 103.4 | 103.6 | 103.8 | 106.0 | 106.6 | 107.0 | 107.5 | . 5 | 3.6 |
| Public administration ${ }^{2} \ldots \ldots \ldots \ldots \ldots \ldots \ldots .$. | 101.1 | 102.0 | 103.5 | 104.5 | 105.2 | 106.4 | 107.4 | 108.2 | 108.6 | . 4 | 3.2 |
| Private industry workers............................................... | 101.7 | 102.5 | 103.2 | 104.3 | 105.1 | 106.0 | 106.6 | 107.6 | 108.4 | . 7 | 3.1 |
| Workers by occupational group Management, professional, and related | 102.0 | 103.0 | 103.6 | 104.9 | 105.8 | 106.7 | 107.2 | 108.5 | 109.3 | . 7 | 3.3 |
| Management, professional, and related.. | 102.2 | 103.0 102.8 | 103.6 103.1 | 104.9 | 105.8 | 106.7 106.3 | 106.6 | 108.5 | 109.3 | . 7 | 3.3 3.3 |
| Professional and related. | 101.8 | 103.1 | 104.0 | 105.1 | 106.0 | 107.0 | 107.6 | 108.7 | 109.5 | . 7 | 3.3 |
| Sales and office. | 101.6 | 102.4 | 103.0 | 103.8 | 104.8 | 105.3 | 106.2 | 106.7 | 107.7 | . 9 | 2.8 |
| Sales and related. | 101.3 | 102.0 | 102.6 | 102.8 | 104.0 | 104.4 | 105.5 | 105.3 | 106.6 | 1.2 | 2.5 |
| Office and administrative support. | 101.9 | 102.6 | 103.3 | 104.5 | 105.4 | 106.0 | 106.7 | 107.7 | 108.5 | . 7 | 2.9 |
| Natural resources, construction, and maintenance. | 101.8 | 102.8 | 103.4 | 104.2 | 105.1 | 106.2 | 107.1 | 108.1 | 109.0 | . 8 | 3.7 |
| Construction and extraction.... | 102.0 | 103.0 | 103.7 | 104.7 | 105.8 | 106.7 | 107.8 | 109.2 | 110.1 | . 8 | 4.1 |
| Installation, maintenance, and repair.. | 101.6 | 102.6 | 103.0 | 103.7 | 104.2 | 105.6 | 106.1 | 106.8 | 107.6 | . 7 | 3.3 |
| Production, transportation, and material moving. | 101.2 | 101.8 | 102.4 | 103.1 | 103.8 | 104.5 | 105.0 | 106.0 | 106.8 | . 8 | 2.9 |
| Production... | 101.2 | 101.7 | 102.2 | 103.1 | 103.6 | 104.2 | 104.6 | 105.6 | 106.4 | . 8 | 2.7 |
| Transportation and material moving. | 101.2 | 102.0 | 102.6 | 103.2 | 104.1 | 105.0 | 105.4 | 106.5 | 107.4 | . 8 | 3.2 |
| Service occupations...................... | 101.3 | 102.0 | 102.9 | 104.6 | 105.3 | 106.5 | 107.1 | 107.9 | 108.8 | . 8 | 3.3 |
| Workers by industry and occupational group |  |  |  |  |  |  |  |  |  |  |  |
| Goods-producing industries | 101.8 | 102.3 | 102.9 | 103.9 | 104.7 | 105.4 | 106.0 | 107.1 | 108.0 | . 8 | 3.2 |
| Management, professional, and related. | 101.7 | 102.4 | 102.8 | 104.4 | 105.3 | 105.9 | 106.0 | 107.7 | 108.4 | . 6 | 2.9 |
| Sales and office........ | 103.4 | 102.2 | 103.1 | 103.4 | 104.1 | 104.7 | 105.5 | 105.8 | 107.2 | 1.3 | 3.0 |
| Natural resources, construction, and maintenance... | 101.9 | 102.7 | 103.4 | 104.4 | 105.6 | 106.5 | 107.6 | 108.8 | 109.6 | . 7 | 3.8 |
| Production, transportation, and material moving. | 101.3 | 101.9 | 102.4 | 103.2 | 103.7 | 104.4 | 104.8 | 105.7 | 106.6 | . 9 | 2.8 |
| Construction.. | 102.0 | 102.9 | 103.7 | 104.9 | 106.0 | 107.0 | 107.8 | 109.0 | 110.0 | . 9 | 3.8 |
| Manufacturing........................ | 101.7 | 101.9 | 102.3 | 103.3 | 103.9 | 104.5 | 104.9 | 105.9 | 106.7 | . 8 | 2.7 |
| Management, professional, and related. | 101.5 | 102.2 | 102.3 | 103.8 | 104.6 | 105.0 | 105.3 | 106.7 | 107.2 | . 5 | 2.5 |
| Sales and office. | 103.8 | 101.1 | 102.0 | 102.4 | 103.2 | 103.9 | 104.7 | 105.5 | 106.9 | 1.3 | 3.6 |
| Natural resources, construction, and maintenance... | 101.7 | 102.3 | 103.0 | 103.8 | 104.3 | 105.0 | 105.9 | 106.8 | 107.1 | . 3 | 2.7 |
| Production, transportation, and material moving........ | 101.3 | 101.8 | 102.3 | 103.1 | 103.6 | 104.2 | 104.5 | 105.4 | 106.3 | . 9 | 2.6 |
| Service-providing industries.. | 101.7 | 102.6 | 103.3 | 104.4 | 105.3 | 106.1 | 106.8 | 107.7 | 108.6 | . 8 | 3.1 |
| Management, professional, and related. | 102.0 | 103.1 | 103.7 | 105.0 | 105.9 | 106.8 | 107.4 | 108.6 | 109.4 | . 7 | 3.3 |
| Sales and office.. | 101.4 | 102.4 | 102.9 | 103.8 | 104.9 | 105.4 | 106.3 | 106.8 | 107.7 | . 8 | 2.7 |
| Natural resources, construction, and maintenance.. | 101.8 | 103.0 | 103.4 | 103.9 | 104.3 | 105.7 | 106.3 | 106.9 | 108.0 | 1.0 | 3.5 |
| Production, transportation, and material moving.. | 101.0 | 101.7 | 102.4 | 103.0 | 104.0 | 104.6 | 105.2 | 106.3 | 107.1 | . 8 | 3.0 |
| Service occupations... | 101.3 | 102.0 | 102.9 | 104.6 | 105.3 | 106.6 | 107.2 | 108.0 | 108.8 | . 7 | 3.3 |
| Trade, transportation, and utilities.. | 100.9 | 102.1 | 102.7 | 103.2 | 104.3 | 104.6 | 105.5 | 105.9 | 107.2 | 1.2 | 2.8 |

See footnotes at end of table.
31. Continued-Employment Cost Index, wages and salaries, by occupation and industry group
[December 2005 = 100]


[^21]32. Employment Cost Index, benefits, by occupation and industry group
[December $2005=100$ ]

| Series | 2006 |  |  | 2007 |  |  |  | 2008 |  | Percent change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | 3 months ended | 12 months ended |
|  |  |  |  |  |  |  |  |  |  | June 2008 |  |
| Civilian workers...................................................... | 101.6 | 102.8 | 103.6 | 104.0 | 105.1 | 106.1 | 106.8 | 107.6 | 108.1 | 0.5 | 2.9 |
| Private industry workers.......................................... | 101.7 | 102.5 | 103.1 | 103.2 | 104.3 | 105.0 | 105.6 | 106.5 | 107.0 | . 5 | 2.6 |
| Workers by occupational group <br> Management, professional, and related. | 101.8 | 102.8 | 103.4 | 103.8 | 104.9 | 105.6 | 106.0 | 107.3 | 107.9 | . 6 | 2.9 |
| Sales and office. | 101.6 | 102.0 | 102.9 | 103.4 | 104.3 | 105.2 | 106.0 | 106.5 | 107.0 | . 5 | 2.6 |
| Natural resources, construction, and maintenance. | 102.7 | 103.5 | 104.0 | 103.4 | 104.8 | 105.3 | 105.9 | 106.5 | 107.0 | . 5 | 2.1 |
| Production, transportation, and material moving.. | 101.0 | 101.6 | 102.0 | 101.2 | 102.4 | 102.7 | 103.7 | 104.4 | 104.5 | . 1 | 2.1 |
| Service occupations.. | 102.2 | 103.0 | 103.6 | 104.2 | 105.1 | 106.0 | 106.7 | 107.6 | 108.5 | . 8 | 3.2 |
| Workers by industry |  |  |  |  |  |  |  |  |  |  |  |
| Goods-producing. | 100.4 | 101.3 | 101.7 | 100.9 | 102.2 | 102.4 | 103.2 | 104.0 | 104.4 | . 4 | 2.2 |
| Manufacturing.. | 99.7 | 100.5 | 100.8 | 99.6 | 101.0 | 100.7 | 101.7 | 102.3 | 102.2 | -. 1 | 1.2 |
| Service-providing. | 102.3 | 103.0 | 103.7 | 104.1 | 105.2 | 106.0 | 106.6 | 107.6 | 108.1 | . 5 | 2.8 |
| State and local government workers.......................... | 101.3 | 104.1 | 105.2 | 107.0 | 108.0 | 110.3 | 111.0 | 111.4 | 111.8 | . 4 | 3.5 |

NOTE: The Employment Cost Index data reflect the conversion to the 2002 North American Classification System (NAICS) and the 2000 Standard Occupational Classification (SOC) system. The NAICS and soc data shown prior
to 2006 are for informational purposes only. Series based on NAICS and sOC became the official BLS estimates starting in March 2006.
33. Employment Cost Index, private industry workers by bargaining status and region
[December 2005 $=100]$

| Series | 2006 |  |  | 2007 |  |  |  | 2008 |  | Percent change |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | June | Sept. | Dec. | Mar. | June | Sept. | Dec. | Mar. | June | 3 months ended | 12 months ended |
|  |  |  |  |  |  |  |  |  |  | June 2008 |  |
| COMPENSATION <br> Workers by bargaining status ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Union.. | 101.8 | 102.4 | 103.0 | 102.7 | 103.9 | 104.4 | 105.1 | 105.9 | 106.7 | 0.8 | 2.7 |
| Goods-producing. | 101.2 | 101.8 | 102.2 | 101.5 | 102.8 | 103.1 | 104.0 | 104.6 | 105.6 | 1.0 | 2.7 |
| Manufacturing. | 100.1 | 100.5 | 100.8 | 99.2 | 100.0 | 100.0 | 101.0 | 101.4 | 101.7 | . 3 | 1.7 |
| Service-providing. | 102.2 | 102.9 | 103.6 | 103.7 | 104.7 | 105.4 | 106.0 | 107.0 | 107.5 | . 5 | 2.7 |
| Nonunion.. | 101.7 | 102.6 | 103.2 | 104.2 | 105.1 | 105.9 | 106.5 | 107.5 | 108.3 | . 7 | 3.0 |
| Goods-producing. | 101.4 | 102.0 | 102.5 | 103.3 | 104.2 | 104.8 | 105.4 | 106.5 | 107.1 | . 6 | 2.8 |
| Manufacturing.. | 101.3 | 101.7 | 102.1 | 102.8 | 103.7 | 104.1 | 104.6 | 105.6 | 106.2 | . 6 | 2.4 |
| Service-providing. | 101.8 | 102.7 | 103.4 | 104.4 | 105.3 | 106.2 | 106.8 | 107.7 | 108.6 | . 8 | 3.1 |
| Workers by region ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Northeast. | 101.8 | 102.5 | 103.3 | 104.0 | 105.1 | 106.2 | 106.8 | 107.4 | 108.1 | . 7 | 2.9 |
| South.. | 101.6 | 102.8 | 103.5 | 104.3 | 105.3 | 106.1 | 106.7 | 107.8 | 108.5 | . 6 | 3.0 |
| Midwest. | 101.7 | 102.3 | 102.8 | 103.3 | 104.2 | 104.6 | 105.3 | 106.0 | 107.0 | . 9 | 2.7 |
| West. | 101.8 | 102.5 | 103.0 | 104.2 | 104.9 | 105.7 | 106.5 | 107.8 | 108.4 | . 6 | 3.3 |
| WAGES AND SALARIES <br> Workers by bargaining status ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Union.. | 101.2 | 101.7 | 102.3 | 102.8 | 103.7 | 104.4 | 104.7 | 105.5 | 106.7 | 1.1 | 2.9 |
| Goods-producing. | 101.6 | 101.9 | 102.3 | 102.7 | 103.6 | 104.3 | 104.3 | 105.2 | 106.4 | 1.1 | 2.7 |
| Manufacturing... | 101.2 | 101.4 | 101.7 | 102.0 | 102.5 | 102.9 | 102.6 | 103.4 | 104.4 | 1.0 | 1.9 |
| Service-providing. | 100.9 | 101.6 | 102.2 | 102.9 | 103.8 | 104.6 | 104.9 | 105.8 | 106.9 | 1.0 | 3.0 |
| Nonunion. | 101.8 | 102.7 | 103.3 | 104.5 | 105.3 | 106.2 | 106.9 | 107.9 | 108.7 | . 7 | 3.2 |
| Goods-producing. | 101.9 | 102.4 | 103.0 | 104.2 | 105.0 | 105.8 | 106.4 | 107.7 | 108.4 | . 6 | 3.2 |
| Manufacturing.. | 101.8 | 102.0 | 102.5 | 103.6 | 104.2 | 104.9 | 105.5 | 106.6 | 107.3 | . 7 | 3.0 |
| Service-providing. | 101.7 | 102.7 | 103.4 | 104.6 | 105.4 | 106.3 | 107.0 | 107.9 | 108.8 | . 8 | 3.2 |
| Workers by region ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| Northeast. | 101.7 | 102.5 | 103.1 | 104.0 | 105.0 | 106.1 | 106.6 | 107.5 | 108.2 | . 7 | 3.0 |
| South.. | 101.6 | 102.9 | 103.6 | 104.6 | 105.6 | 106.5 | 107.0 | 108.1 | 109.1 | . 9 | 3.3 |
| Midwest. | 101.4 | 102.0 | 102.6 | 103.6 | 104.4 | 105.0 | 105.6 | 106.3 | 107.5 | 1.1 | 3.0 |
| West... | 102.1 | 102.7 | 103.2 | 104.8 | 105.4 | 106.2 | 107.0 | 108.3 | 108.9 | . 6 | 3.3 |

1 The indexes are calculated differently from those for the occupation and industry groups. For a detailed description of the index calculation, see the Monthly Labor Review Technical Note, "Estimation procedures for the Employment Cost Index," May 1982.

NOTE: The Employment Cost Index data reflect the conversion to the 2002 North American Classification System (NAICS) and the 2000 Standard Occupational Classification (SOC) system. The NAICS and SOC data shown prior to 2006 are for informational purposes only. Series based on NAICS and SOC became the official BLS estimates starting in March 2006.
34. National Compensation Survey: Retirement benefits in private industry by access, participation, and selected series, 2003-2007

| Series | Year |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2003 | 2004 | 2005 | 2006 | $2007{ }^{1}$ |
| All retirement <br> Percentage of workers with access |  |  |  |  |  |
|  |  |  |  |  |  |
| All workers... | 57 | 59 | 60 | 60 | 61 |
| White-collar occupations ${ }^{2}$. | 67 | 69 | 70 | 69 | - |
| Management, professional, and related ................. |  |  |  |  | 76 |
| Sales and office .. |  |  | - |  | 64 |
| Blue-collar occupations ${ }^{2}$. | 59 | 59 | 60 | 62 | - |
| Natural resources, construction, and maintenance...... | - |  | - |  | 61 |
| Production, transportation, and material moving..... |  |  | - |  | 65 |
| Service occupations.. | 28 | 31 | 32 | 34 | 36 |
| Full-time. | 67 | 68 | 69 | 69 | 70 |
| Part-time. | 24 | 27 | 27 | 29 | 31 |
| Union.. | 86 | 84 | 88 | 84 | 84 |
| Non-union.. | 54 | 56 | 56 | 57 | 58 |
| Average wage less than $\$ 15$ per hour.. | 45 | 46 | 46 | 47 | 47 |
| Average wage $\$ 15$ per hour or higher.. | 76 | 77 | 78 | 77 | 76 |
| Goods-producing industries.. | 70 | 70 | 71 | 73 | 70 |
| Service-providing industries.. | 53 | 55 | 56 | 56 | 58 |
| Establishments with 1-99 workers.... | 42 | 44 | 44 | 44 | 45 |
| Establishments with 100 or more workers.. | 75 | 77 | 78 | 78 | 78 |
| Percentage of workers participating |  |  |  |  |  |
| All workers... | 49 | 50 | 50 | 51 | 51 |
| White-collar occupations ${ }^{2}$ | 59 | 61 | 61 | 60 | - |
| Management, professional, and related ....... | - | - | - |  | 69 |
| Sales and office ....... |  |  |  |  | 54 |
| Blue-collar occupations ${ }^{2}$. | 50 | 50 | 51 | 52 | - |
| Natural resources, construction, and maintenance...... |  | - | - |  | 51 |
| Production, transportation, and material moving........ |  |  | - |  | 54 |
| Service occupations. | 21 | 22 | 22 | 24 | 25 |
| Full-time. | 58 | 60 | 60 | 60 | 60 |
| Part-time. | 18 | 20 | 19 | 21 | 23 |
| Union... | 83 | 81 | 85 | 80 | 81 |
| Non-union.. | 45 | 47 | 46 | 47 | 47 |
| Average wage less than $\$ 15$ per hour... | 35 | 36 | 35 | 36 | 36 |
| Average wage $\$ 15$ per hour or higher.. | 70 | 71 | 71 | 70 | 69 |
| Goods-producing industries. | 63 | 63 | 64 | 64 | 61 |
| Service-providing industries.. | 45 | 47 | 47 | 47 | 48 |
| Establishments with 1-99 workers.. | 35 | 37 | 37 | 37 | 37 |
| Establishments with 100 or more workers.... | 65 | 67 | 67 | 67 | 66 |
| Take-up rate (all workers) ${ }^{3}$. | - | - | 85 | 85 | 84 |
| Defined Benefit |  |  |  |  |  |
| Percentage of workers with access |  |  |  |  |  |
| All workers... | 20 | 21 | 22 | 21 | 21 |
| White-collar occupations ${ }^{2}$ | 23 | 24 | 25 | 23 |  |
| Management, professional, and related | - | - | - | - | 29 |
| Sales and office ........... |  |  | - |  | 19 |
| Blue-collar occupations ${ }^{2}$.. | 24 | 26 | 26 | 25 | - |
| Natural resources, construction, and maintenance...... | - | - | - |  | 26 |
| Production, transportation, and material moving........ | - | - | - | - | 26 |
| Service occupations....................... | 8 | 6 | 7 | 8 | 8 |
| Full-time.. | 24 | 25 | 25 | 24 | 24 |
| Part-time. | 8 | 9 | 10 | 9 | 10 |
| Union... | 74 | 70 | 73 | 70 | 69 |
| Non-union.. | 15 | 16 | 16 | 15 | 15 |
| Average wage less than $\$ 15$ per hour... | 12 | 11 | 12 | 11 | 11 |
| Average wage $\$ 15$ per hour or higher.. | 34 | 35 | 35 | 34 | 33 |
| Goods-producing industries.. | 31 | 32 | 33 | 32 | 29 |
| Service-providing industries... | 17 | 18 | 19 | 18 | 19 |
| Establishments with 1-99 workers.... | 9 | 9 | 10 | 9 | 9 |
| Establishments with 100 or more workers................... | 34 | 35 | 37 | 35 | 34 |

[^22]34. Continued-National Compensation Survey: Retirement benefits in private industry by access, participation, and selected series, 2003-2007


[^23]34. Continued-National Compensation Survey: Retirement benefits in private industry by access, participation, and selected series, 2003-2007

${ }^{1}$ The 2002 North American Industry Classification System (NAICS) replaced the 1987 Standard Industrial Classification (SIC) System. Estimates for goods-producing and service-providing (formerly service-producing) industries are considered comparable. Also introduced was the 2000 Standard Occupational Classification (SOC) to replace the 1990 Census of Population system. Only service occupations are considered comparable.
${ }^{2}$ The white-collar and blue-collar occupation series were discontinued effective 2007.
${ }^{3}$ The take-up rate is an estimate of the percentage of workers with access to a plan who participate in the plan.
Note: Where applicable, dashes indicate no employees in this category or data do not meet publication criteria.
35. National Compensation Survey: Health insurance benefits in private industry by access, particpation, and selected series, 2003-2007

| Series | Year |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2003 | 2004 | 2005 | 2006 | $2007{ }^{1}$ |
| Medical insurance Percentage of workers with access |  |  |  |  |  |
|  |  |  |  |  |  |
| All workers. | 60 | 69 | 70 | 71 | 71 |
| White-collar occupations ${ }^{2}$. | 65 | 76 | 77 | 77 |  |
| Management, professional, and related . |  |  | - |  | 85 |
| Sales and office... |  |  |  |  | 71 |
| Blue-collar occupations ${ }^{2}$. | 64 | 76 | 77 | 77 |  |
| Natural resources, construction, and maintenance. |  |  |  |  | 76 |
| Production, transportation, and material moving.. |  | - | - |  | 78 |
| Service occupations.. | 38 | 42 | 44 | 45 | 46 |
| Full-time.. | 73 | 84 | 85 | 85 | 85 |
| Part-time. | 17 | 20 | 22 | 22 | 24 |
| Union... | 67 | 89 | 92 | 89 | 88 |
| Non-union.. | 59 | 67 | 68 | 68 | 69 |
| Average wage less than $\$ 15$ per hour.. | 51 | 57 | 58 | 57 | 57 |
| Average wage $\$ 15$ per hour or higher. | 74 | 86 | 87 | 88 | 87 |
| Goods-producing industries.. | 68 | 83 | 85 | 86 | 85 |
| Service-providing industries.. | 57 | 65 | 66 | 66 | 67 |
| Establishments with 1-99 workers.. | 49 | 58 | 59 | 59 | 59 |
| Establishments with 100 or more workers. | 72 | 82 | 84 | 84 | 84 |
| Percentage of workers participating |  |  |  |  |  |
| All workers... | 45 | 53 | 53 | 52 | 52 |
| White-collar occupations ${ }^{2}$. | 50 | 59 | 58 | 57 |  |
| Management, professional, and related |  | - | - |  | 67 |
| Sales and office... |  | - | - | - | 48 |
| Blue-collar occupations ${ }^{2}$. | 51 | 60 | 61 | 60 |  |
| Natural resources, construction, and maintenance. | - | - | - |  | 61 |
| Production, transportation, and material moving. |  | - | - | - | 60 |
| Service occupations. | 22 | 24 | 27 | 27 | 28 |
| Full-time.. | 56 | 66 | 66 | 64 | 64 |
| Part-time.. | 9 | 11 | 12 | 13 | 12 |
| Union.. | 60 | 81 | 83 | 80 | 78 |
| Non-union.. | 44 | 50 | 49 | 49 | 49 |
| Average wage less than $\$ 15$ per hour. | 35 | 40 | 39 | 38 | 37 |
| Average wage $\$ 15$ per hour or higher.. | 61 | 71 | 72 | 71 | 70 |
| Goods-producing industries.. | 57 | 69 | 70 | 70 | 68 |
| Service-providing industries.. | 42 | 48 | 48 | 47 | 47 |
| Establishments with 1-99 workers... | 36 | 43 | 43 | 43 | 42 |
| Establishments with 100 or more workers.. | 55 | 64 | 65 | 63 | 62 |
| Take-up rate (all workers) ${ }^{3}$. |  | - | 75 | 74 | 73 |
| Dental |  |  |  |  |  |
| Percentage of workers with access |  |  |  |  |  |
| All workers... | 40 | 46 | 46 | 46 | 46 |
| White-collar occupations ${ }^{2}$ | 47 | 53 | 54 | 53 |  |
| Management, professional, and related . | - | - | - | - | 62 |
| Sales and office... |  | - | - |  | 47 |
| Blue-collar occupations ${ }^{2}$. | 40 | 47 | 47 | 46 |  |
| Natural resources, construction, and maintenance. |  | - | - | - | 43 |
| Production, transportation, and material moving.... |  | - | - | - | 49 |
| Service occupations... | 22 | 25 | 25 | 27 | 28 |
| Full-time.. | 49 | 56 | 56 | 55 | 56 |
| Part-time. | 9 | 13 | 14 | 15 | 16 |
| Union... | 57 | 73 | 73 | 69 | 68 |
| Non-union.. | 38 | 43 | 43 | 43 | 44 |
| Average wage less than $\$ 15$ per hour.. | 30 | 34 | 34 | 34 | 34 |
| Average wage $\$ 15$ per hour or higher.. | 55 | 63 | 62 | 62 | 61 |
| Goods-producing industries.. | 48 | 56 | 56 | 56 | 54 |
| Service-providing industries.. | 37 | 43 | 43 | 43 | 44 |
| Establishments with 1-99 workers... | 27 | 31 | 31 | 31 | 30 |
| Establishments with 100 or more workers............. | 55 | 64 | 65 | 64 | 64 |

[^24]35. Continued-National Compensation Survey: Health insurance benefits in private industry by access, particpation, and selected series, 2003-2007

${ }^{1}$ The 2002 North American Industry Classification System (NAICS) replaced the 1987 Standard Industrial Classification (SIC)
System. Estimates for goods-producing and service-providing (formerly service-producing) industries are considered comparable.
Also introduced was the 2000 Standard Occupational Classification (SOC) to replace the 1990 Census of Population system.
Only service occupations are considered comparable.
${ }^{2}$ The white-collar and blue-collar occupation series were discontinued effective 2007.
${ }^{3}$ The take-up rate is an estimate of the percentage of workers with access to a plan who participate in the plan.

Note: Where applicable, dashes indicate no employees in this category or data do not meet publication criteria.

## 36. National Compensation Survey: Percent of workers in private industry

 with access to selected benefits, 2003-2007| Benefit | Year |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2003 | 2004 | 2005 | 2006 | 2007 |
| Life insurance.... | 50 | 51 | 52 | 52 | 58 |
| Short-term disabilty insurance.. | 39 | 39 | 40 | 39 | 39 |
| Long-term disability insurance... | 30 | 30 | 30 | 30 | 31 |
| Long-term care insurance.... | 11 | 11 | 11 | 12 | 12 |
| Flexible work place.... | 4 | 4 | 4 | 4 | 5 |
| Section 125 cafeteria benefits |  |  |  |  |  |
| Flexible benefits... | - |  | 17 | 17 | 17 |
| Dependent care reimbursement account... | - |  | 29 | 30 | 31 |
| Healthcare reimbursement account..... | - | - | 31 | 32 | 33 |
| Health Savings Account. | - | - | 5 | 6 | 8 |
| Employee assistance program.. | - | - | 40 | 40 | 42 |
| Paid leave |  |  |  |  |  |
| Holidays... | 79 | 77 | 77 | 76 | 77 |
| Vacations.. | 79 | 77 | 77 | 77 | 77 |
| Sick leave.. | - | 59 | 58 | 57 | 57 |
| Personal leave...... | - | - | 36 | 37 | 38 |
| Family leave |  |  |  |  |  |
| Paid family leave... | - | - | 7 | 8 | 8 |
| Unpaid family leave............................................ | - | - | 81 | 82 | 83 |
| Employer assistance for child care.. | 18 | 14 | 14 | 15 | 15 |
| Nonproduction bonuses......................................... | 49 | 47 | 47 | 46 | 47 |

Note: Where applicable, dashes indicate no employees in this category or data do not meet publication criteria.
37. Work stoppages involving 1,000 workers or more

| Measure | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June ${ }^{\text {p }}$ | July ${ }^{\text {p }}$ |
| Number of stoppages: <br> Beginning in period. <br> In effect during period. |  | 21 23 | 1 1 | 1 1 | 5 | $\begin{array}{l\|l\|} 5 & 3 \\ 6 & 3 \end{array}$ | 3 1 <br> 3 2 | 1 2 <br> 2 4 | $\begin{aligned} & 0 \\ & 1 \end{aligned}$ | $\begin{aligned} & 2 \\ & 3 \end{aligned}$ | 2 4 | $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | $\begin{aligned} & 2 \\ & 4 \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \end{aligned}$ | 1 1 |
| Workers involved: <br> Beginning in period (in thousands).... In effect during period (in thousands) | 70.1 191.0 | 189.2 220.9 | 1.1 1.1 | 1.0 1.0 | 108.3 108.3 | 41.7 41.7 | 10.5 14.2 | 6.5 20.7 | .0 10.5 | 6.2 16.7 | 5.7 11.9 | 2.3 6.0 | 3.4 9.4 | 4.2 | 8.5 8.5 |
| Days idle: <br> Number (in thousands) $\qquad$ <br> Percent of estimated working time ${ }^{1}$. $\qquad$ | $2,687.5$ .01 | $\begin{array}{r} 1,264.8 \\ .01 \\ \hline \end{array}$ | $\begin{array}{r} 6.6 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} 9.0 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} 261.5 \\ .01 \\ \hline \end{array}$ | $\begin{array}{r} 73.9 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} 284.0 \\ .01 \\ \hline \end{array}$ | $\begin{array}{r} 254.8 \\ .01 \\ \hline \end{array}$ | $\begin{array}{r} 220.5 \\ .01 \\ \hline \end{array}$ | $\begin{array}{r} 148.8 \\ .01 \\ \hline \end{array}$ | $\begin{array}{r} 140.9 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} 104.4 \\ 0 \\ \hline \end{array}$ | $\begin{array}{r} 125.0 \\ 0 \\ \hline \end{array}$ |  | 42.5 |
| 1 Agricultural and government employees are included in the total employed and total working time; private household, forestry, and fishery employees are excluded. An explanation of the measurement of idleness as a percentage of the total time |  |  |  |  |  | worked is found in "Total economy measures of strike idleness," October 1968, pp. 54-56. <br> NOTE: $p=$ preliminary. |  |  |  |  |  |  | Monthly Labor Review , |  |  |

38. Consumer Price Indexes for All Urban Consumers and for Urban Wage Earners and Clerical Workers:
U.S. city average, by expenditure category and commodity or service group
[1982-84 = 100 , unless otherwise indicated]

| Series | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| CONSUMER PRICE INDEX |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All items. | 201.6 | 207.342 | 208.299 | 207.917 | 208.490 | 208.936 | 210.177 | 210.036 | 211.080 | 211.693 | 213.528 | 214.823 | 216.632 | 218.815 | 219.964 |
| All items (1967 = 100 | 603.9 | 621.106 | 623.970 | 622.827 | 624.543 | 625.879 | 629.598 | 629.174 | 632.301 | 634.139 | 639.636 | 643.515 | 648.933 | 655.474 | 8.915 |
| Food and be | 195.7 | 203.300 | 203.533 | 204.289 | 205.279 | 206.124 | 206.563 | 206.936 | 208.837 | 209.462 | 209.692 | 211.365 | 212.251 | 213.383 | 215.326 |
| Food. | 195.2 |  | 203.121 | 203.885 | 204.941 | 205.796 | 206.277 | 206.704 | 208.618 | 209.166 | 209.385 | 211.102 | 212.054 | 213.243 | 215.299215.785 |
| Food at home. | 193.1 | 201.245 | 201.401 | 202.126 | 203.193 | 204.333 | 204.745 | 205.208 | 207.983 | 208.329 | 208.203 | 210.851 | 211.863 | 213.171 |  |
| Cereals and bakery prod | 212.8 | 222.107 | 223.297 | 223.981 | 223.372 | 224.691 | 225.668 | 226.461 | 228.661 | 233.389 | 236.261 | 240.034 | 244.192 | 245.758 | 250.321 |
| Meats, poultry, fish, and e | 186.6 | 195.616 | 196.690 | 197.204 | 198.323 | 198.474205.319 | 198.616 | 198.755205.299 | 200.035 | 199.688 | 199.775 | 200.770 | 200.960 | 202.914 | 205.075 |
| Dairy and related products | 181.4 | 194.770 | 197.899 | 201.739 | $\begin{aligned} & 203.541 \\ & 259.100 \end{aligned}$ |  | 205.959 |  | 206.905 | 208.166 | 206.171 | 207.680 | 207.778 | 209.117 | 213.981 |
| Fruits and vegetables.. | 252.9 | 262.628 | 254.616 | 252.845 |  | $\left\|\begin{array}{l} 205.319 \\ 263.648 \end{array}\right\|$ | 268.407 | $\begin{aligned} & 205.299 \\ & 272.482 \end{aligned}$ | 279.072 | 272.129 | 268.446 | 272.746 | 276.481 | 277.957 | 280.209 |
| Nonalcoholic beverages and beverage |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| materia | 147.4 169.6 | 153.432 173.275 | 173.384 | 1174.689 | 155.007 | 175 | 154.299 | 153.648 | 157.863 | 157.805 177.863 | 158.089 | 9.730 | 158.336 | 58.320 | 159.346 |
| Sugar and sw | 71.5 | 176.772 | 178.235 | 178.256 | 178.172 | 177.236 | 178.600 | 178.631 | 180.193 | 180.588 | 178.238 <br> 182.214 | 184.878 | 185.097 | 185.558 | 187.067 |
| Fats and oils | 8.0 | 172.921 | 173.691 | 174.251 | 174.105 | 176.050 | 175.327 | 176.068 | 181.813 | 184.878 | 182.808 | 190.640 | 193.364 | 196.150 | 201.205 |
| Other foods | 0 | 188.244 | 189.518 | 189.781 | 189.076 | 189.695 | 188.340 | 188.325 | 190.037 | 192.064 | 597 | . 993 | 87 | . 888 | 99.566 |
| Other miscellaneous | 113.9 | 115.105 | 115.017 | 116.072 | 114.628 | 114.850 | 115.396 | 115.267 | 115.162 | 118.182 | 117.321 | 118.500 | 118.744 | 18.453 | 120.510 |
| Food away from home ${ }^{1}$. | 199.4 | 206.659 | 206.931 | 207.756 | 208.805 | 209.275 | 209.854 | 210.233 | 211.070 | 211.878 | 212.537 | 213.083 | 213.967 | 15.015 | 6.376 |
| Other food away from home ${ }^{1}$ | 6.6 | 144.068 | 144.785 | 145.376 | 146.752 | 146.074 | 146.628 | 145.814 | 146.649 | 148.385 | 148.564 | 148.667 | 149.666 | 73 | 151.120 |
| Alcoholic beverages. | 7 | 207.026 | 207.624 | 208.264 | 208.408 | 209.126 | 209.018 | 208.704 | 210.425 | 212.044 | 212.407 | 213.503 | 213.532 | 213.912 | 394 |
| Housing. | 203.2 | 209.586 | 211.286 | 211.098 | 210.8 | 210.701 | 210.745 | 210.933 | 212.244 | 213.026 | 214.389 | 214.890 | 215.809 | . 941 | 219.610 |
| Shelter | 32. | 240.611 | 242.067 | 242.238 | 241.990 | 242.405 | 242.207 | 242.372 | 243.871 | 244.786 | 245.995 | 246.004 | 246.069 | . 083 | 248.075 |
| Rent of prim | 225.1 | 234.679 | 234.732 | 235.311 | 236.058 | 237 | 238.169 | . 102 | 239.850 | 240.325 | 240.874 | 241.474 | 241.803 | 242.640 | 7 |
| Lodging away from hom | 136.0 | 142.813 | 153.016 | 150.236 | 144.480 | 143.17 | 136.703 | 133.545 | 140.176 | 144.092 | 149.434 | 146.378 | 145.634 | 148.621 | 153.032 |
| Owners' equivalent rent of primary resi | 238.2 | 24 | 246.149 | 246.815 | 247.487 | 248.075 | 248.876 | 249.532 | 250.106 | 250.481 | 250.966 | 251.418 | 251.576 | 252.170 | 252.504 |
| Tenants' and household insurance ${ }^{1,2}$ | 5 | 117.004 | 116.577 | 116.926 | 16.783 | 116.640 | 116.997 | 117.003 | 117.435 | 117.622 | 117.701 | 118.422 | 118.411 | 19.092 | 18.764 |
| Fuels and utilities. | 7 | . 32 | 206.140 | 204.334 | 204.264 | 200.836 | 202.161 | 203.006 | 204.796 | 205.795 | 209.221 | 213.302 | 219.881 | 12 | 239.039 |
| Fuels. | 1 | 74 | 187.624 | 3 | 185.306 | 181.509 | 182.725 | 183.516 | 1 | 94 | 3 | 194.121 | 201.212 | 213.762 | 221.742 |
| Fuel oil and other | 9 | 251.453 | 245.680 | 246.542 | 252.580 | 261. | 291.845 | 299.296 | 306.937 | 308.269 | 332.139 | 342.811 | 363.872 | 389.423 | 395.706 |
| Gas (piped) and electricit | 2.1 | 186.262 | 193.184 | 190.710 | 190.158 | 185.337 | 184.753 | 185.155 | 186.475 | 187.376 | 190.105 | 194.379 | 200.999 | 213.375 | 221.805 |
| Household furnishings and opera | 127.0 | 126.875 | 126.894 | 126.520 | 126.193 | 126.233 | 126.252 | 126.066 | 126.515 | 126.753 | 127.423 | 127.332 | 127.598 | 127.625 | 127.884 |
| Apparel | 119.5 | 118.99 | 113.500 | 114.439 | 119.535 | 121.846 | 121.204 | 118.25 | 115.7 | 117.839 | 120.881 | 122.113 | 120.752 | 7.019 | 4.357 |
| Men's and boy | 114.1 | 112.368 | 109.568 | 109.032 | 380 | 11 | 114.807 | 112.026 | 110.69 | 112.917 | 114.994 | 116.6 | 116.479 | 2.011 | 109.669 |
| Women's and girls' apparel. | 110.7 | 296 | 101.291 | 103 | 110 | 113.4 | 112.166 | 109.418 | 104 | 106.340 | 110.645 | 111.221 | 108.72 | 104.312 | 100.049 |
| Infants' and toddlers' appare | 116.5 | 113.948 | 108.759 | 110.221 | . 611 | 117.149 | 117.339 | 113.779 | 113.861 | 115.750 | 16.0 | 116.358 | 114.582 | 11.555 | 109.218 |
| Footwear | 123.5 | 122.374 | 119.375 | 120.329 | 123.183 | 124.675 | 125.005 | 122.258 | 121.148 | 122.377 | 124.407 | 126.212 | 125.537 | 123.568 | 122.421 |
| Transportation. | 0.9 | 184.682 | 187.690 | 184.480 | 184.5 | 184.952 | 190.67 | 189.984 | 190.839 | 190.520 | 195.189 | 198.6 | 205.262 | 211.787 | 212.806 |
| Private transportation | 177.0 | 180 | 183.619 | 180.408 | 180.586 | 180.919 | 186.839 | 186.134 | 186.97 | 186.571 | 191.06 | 194.574 | 201.13 | 207.257 | 208.038 |
| New and used motor ve | 95.6 | 94.303 | 1 | 1 | 93.985 | 94.201 | 94.562 | 94.754 | 4.8 | 94.581 | 94.318 | 93.973 | 93.705 | 93.59 | 3.650 |
| New vehicles.............. | 137.6 | 136.254 | 135.415 | 135.204 | 134.927 | 135.344 | 136.250 | 136.664 | 13 | 136.279 | 135.727 | 135.175 | 134.669 | 134.516 | 134.397 |
| Used cars and trucks ${ }^{1}$ | 140.0 | 135.747 | 136.024 | 137.138 | 137.142 | 136.950 | 136.616 | 136.943 | 137.203 | 137.248 | 137.225 | 136.787 | 136.325 | 135.980 | 135.840 |
| Motor | 221.0 | 239.070 | 252.909 | 238.194 | 239.104 | 239.048 | 262.282 | 258.132 | 260.523 | 259 | 278 | 294.291 | 32 | 347.418 | 349.731 |
| Gasoline (all types). | 219.9 | 237.959 | 251.883 | 237.108 | 237.993 | 23 | 260.943 | 0 | 259.3 | 257.845 | 276.497 | 291.910 | 9.7 | 344.981 | 347.357 |
| Motor vehicle parts and equipment | 117.3 | 121.583 | 121.514 | 121.730 | 122.292 | 123.017 | 123.487 | 123.928 | 124.282 | 125.225 | 126.325 | 126.049 | 126.824 | 127.824 | 129.118 |
| Motor vehicle maintenance and repair | 215.6 | 222 | 223.487 | 224.019 | 224.302 | 224.939 | 225.672 | 226.120 | 227.732 | 228.73 | 229.765 | 230 | 231. | 233.162 | . 788 |
| Public transpo | 6 | 230.002 | 235.767 | 233.112 | 230.694 | 232.725 | 233.758 | 233.408 | 234.334 | 235.724 | 242.929 | 244.164 | 251.600 | 264.681 | 270.002 |
| Medical care. | 336.2 | 351.054 | 351.643 | 352.961 | 353.723 | 355.653 | 357.041 | 357.661 | 360.459 | 362.155 | 36 | 363.184 | 363.39 | 363.616 | 363.963 |
| Medical care commoditi | 285.9 | 289.999 | 290.257 | 291.164 | 291.340 | 292.161 | 293.201 | 293.610 | 295.355 | 296.130 | 297.308 | 296.951 | 294.896 | 94 | 294.777 |
| Medical care | 6 | 369.302 | 370.008 | 371.461 | 372.432 | 374.750 | 376.250 | 376.940 | 380.135 | 382.196 | 2782 | 383.292 | 384.505 | 384.685 | 385.361 |
| Professional service | 289 | 300.792 | 301.131 | 302.259 | 302.410 | 303.532 | 303.780 | 304 | 306.529 | 307.928 | 308.726 | 309.22 | 31 | 311.317 | 311.926 |
| Hospital and related ser | 468.1 | 498.922 | 499.400 | 501.026 | 504.206 | 510.006 | 515.359 | 515.677 | 523.313 | 527.971 | 528.968 | 530.144 | 531.022 | . 606 | 533.558 |
| Recreation ${ }^{2}$. | 110.9 | 111.4 | 111.347 | 111.1 | 111.400 | 111.7 | 111.842 | 111.7 | 112.0 | 112.365 | 112.731 | 112.8 | 112.9 | 12.9 | 13.277 |
| Video and audio ${ }^{1,2}$ | 104.6 | 102.949 | 102.779 | 102.311 | 102.759 | 103.157 | 102.719 | 102.69 | 102.98 | 103.17 | 103.54 | 103.4 | 102.98 | 102.30 | 102.20 |
| Education and communi | 116.8 | 119.5 | 119.025 | 120.311 | 121.273 | 121.557 | 121.409 | 121.506 | 121.762 | 121.766 | 121.832 | 122.0 | 122.348 | 22.82 | 123.445 |
| Education ${ }^{2}$. | 162.1 | 171.388 | 169.490 | 172.873 | 175.486 | 176.339 | 176.717 | 176.927 | 177.440 | 177.460 | 177.407 | 177.754 | 177.994 | 178.385 | 179.229 |
| Educational books and supplies. | 388.9 | 420.418 | 418.394 | 427.425 | 430.114 | 431.432 | 431.606 | 434.352 | 437.822 | 439.052 | 439.906 | 442.160 | 442.770 | 43.3 | 444.382 |
| Tuition, other school fees, and ch | 468.1 | 494.079 | 488.382 | 498.071 | 505.924 | 508.449 | 509.605 | 510.016 | 511.301 | 511.253 | 511.013 | 511.887 | 512.579 | 513.74 | 516.264 |
| Communication ${ }^{1,2}$. | 84.1 | 83.367 | 83.553 | 83.655 | 83.690 | 83.659 | 83.250 | 83.282 | 83.396 | 83.391 | 83.502 | 83.670 | 83.929 | 84.394 | 4.84 |
| Information and information processing | 81.7 | 80.720 | 80.840 | 80.944 | 80.976 | 80.946 | 80.519 | 80.54 | 80.642 | 80.638 | 80.75 | 80.92 | 81.08 | 81.5 | 81.965 |
|  | 95.8 | 98.247 | 98.570 | 98.813 | 98.882 | 99.031 | 98.775 | 98.792 | 98.906 | 98.837 | 99.031 | 99.494 | 99.879 | 100.677 | 101.33 |
| Information and information processing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| other than telephone services ${ }^{1,4}$. | 12 | 10.597 | 10.5 | 10.487 | 10.477 | 10.385 | 10.204 | 10.215 | 10.22 | 10.253 | 10.246 | 10.170 | 10.118 | 10.071 | 10.087 |
| Personal computers and peripheral |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| equipment ${ }^{1,2}$. | 120.9 | 108.411 | 107.439 | 106.575 | 105.806 | 104.336 | 100.104 | 100.000 | 100.998 | 100.545 | 100.359 | 98.853 | 97.028 | 95.663 | 94.711 |
| Other goods and services. | 321.7 | 333.328 | 333.415 | 333.325 | 334.801 | 335.680 | 336.379 | 337.633 | 339.052 | 340.191 | 341.827 | 343.410 | 344.709 | 345.885 | 346.810 |
| Tobacco and smoking product | 519.9 | 554.18 | 553 | 555.21 | 559.636 | 560.62 | 561.967 | 566.696 | 572.68 | 575.2 | 574.8 | 576.35 | 581.1 | 889.9 | 596.782 |
| Personal care ${ }^{1}$. | 190.2 | 195.622 | 195.704 | 195.521 | 196.202 | 196.763 | 197.156 | 197.643 | 198.112 | 198.716 | 199.982 | 201.028 | 201.523 | 201.537 | 201.545 |
| Personal care products ${ }^{1}$. | 155.8 | 158.285 | 158.457 | 157.788 | 157.643 | 158.381 | 158.561 | 158.236 | 158.201 | 157.677 | 158.440 | 159.398 | 158.79 | 158.86 | 158.989 |
| Personal care services ${ }^{1}$. | 209.7 | 216.559 | 216.720 | 217.028 | 217.589 | 217.887 | 218.604 | 219.656 | 219.932 | 220.848 | 222.752 | 222.799 | 223.649 | 223.520 | 223.7 |

38. Continued-Consumer Price Indexes for All Urban Consumers and for Urban Wage Earners and Clerical Workers U.S. city average, by expenditure category and commodity or service group [1982-84 = 100, unless otherwise indicated

| Series | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| Miscellaneous personal ser | 313.6 | 324.984 | 324.579 | 325.566 | 327.783 | 328.056 | 328.610 | 329.908 | 332.183 | 333.826 | 335.427 | 337.685 | 339.824 | 340.547 | 340.077 |
| Commodity and service gro |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commoditie | 164.0 | 16 | 167.938 | 166.955 | 5 | 168.664 | 4 | 170.511 | 171.179 | 171.530 | 173.884 | 175.838 | 178.341 | 180.534 |  |
| Food and beverages | 195.7 | 203.300 | 203.533 | 204.289 | 9 | 206.124 | 206.563 | 206.936 | 208.837 | 209.462 | 209.692 | 211.365 | 212.251 | 213.383 | 215.326 |
| Commodities less food | 9 | 147.515 | 148.016 | 146.317 | 147.289 | 147.924 | 151.067 | 150.162 | 150.303 | 150.530 | 153.682 | 155.690 | 158.778 | 161.337 | 1.3 |
| Nondurables less food | $\begin{aligned} & 176.7 \\ & 119.5 \end{aligned}$ | 182.526 | 183.947 | 180.480 | 182.902 | 184.091 | 190.560 | 188.635 | 188.692 | 189.420 | 196.185 | 200.926 | 207.875 | 213.489 | 213.363114.357 |
| Apparel |  | 118.998 | 113.500 | 114.439 | 119.535 | 121.846 | 121.204 | 118.257 | 115.795 | 117.839 | 120.881 | 122.113 | 120.752 | 117.019 |  |
| an | 216.3 | 226.224 | 231.983 | 225.694 | 226.509 | 227.026 | 238.067 | 236.735 | 238.389 | 238.297 | 7 | 254.599 | 266.943 | 278.584 | 280.062 |
| urable | 114.5 | 112.473 | 112.177 | 112.036 | 111.746 | 111.889 | 112.103 | 112.093 | 112.300 | 112.094 | 112.059 | 111.671 | 111.362 | 111.232 | 111.275 |
| Services | 238.9 | 246.848 | $252.358$ | 248.555 | 248.700 | 248.878 | 248.974 | 249.225 | 250.648 | 251.527 | 252.817 | 253.426 | 254.509 | 256.668 | 258.422 |
| Re | 241.9230.8 | $\begin{aligned} & 250.813 \\ & 233.731 \end{aligned}$ |  | 252.530 | 252.272 | 252.713 | 252.495 | 252.669 | 254.239 | 255.199 | 256.470 | 256.463 | 256.532 | 257.585 | 258.637 |
| Transportation service |  |  | 234.632 | $\begin{aligned} & 234.563 \\ & 286.492 \end{aligned}$ | 234.322 | 235.458 | 236.449 | 236.504 | 237.347 | 237.929 | 239.556 | $\begin{aligned} & 240.150 \\ & 293.016 \end{aligned}$ | 242.343 | 245.759 | 247.869 |
| Other services | 277.5 | 285.559 | 284.859 |  | 288.469 | 289.307 | 289.592 | 289.945 | 290.905 | 291.406 | 292.218 |  | 293.959 | 294.668 | 295.677 |
| Special |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| items less food | 202.7 | 208 | 209.179 | 208.607 | 209.100 | 209.478 | 210.846 | 210.610 | 211.512 | 212.136 | 214.236 | 215.462 | 217.411 | 219.757 | 220.758 |
| All items less shelter. | 194.7 | 196.639 | 197.408 | 196.803 | 197.708 | 198.171 | 199.998 | 199.734 | 200.609 | 201.110 | 203.217 | 205.040 | 207.566 | 210.242 | 211.468 |
| All items less medical ca |  | 200.080 | 201.042 | 200.598 | 201.159 | 201.544 | 202.770 | 202.600 | 203.569 | 204.136 | 205.992 | 207.317 | 209.170 | 211.408 | 212.576 |
| Commodities less food. | 148.0 | 149.720 | 150.225 | 148.591 | 149.541 | 150.180 | 153.234 | 152.344 | 152.531 | 152.799 | 155.881 | 157.870 | 160.880 | 163.385 | 163.364 |
| Nondurables less food | 178.2 | 184.012 | 185.382 | 182.170 | 184.450 | 185.610 | 191.668 | 189.844 | 190.000 | 190.781 | 197.167 | 201.693 | 208.233 | 213.538 | 213.447 |
| Nondurables le | 213.9 | 223.411 | 228.641 | 223.057 | 223.802 | 224.338 | 234.241 | 233.014 | 234.667 | 234.736 | 243.109 | 249.571 | 260.703 | 271.235 | 272.612 |
| Nondura | 7 | 193.468 | 194.326 | 192.869 | 194.616 | 195.646 | 199.253 | 198.422 | 199.346 | 200.030 | 203.767 | 207.09 | 211.24 | 214.783 | 215.628 |
| Services less rent of shelter ${ }^{3}$. | 3 | 260.764 | 262.284 | 262.588 | 263.243 | 263.109 | 263.599 | 263.966 | 265.311 | 266.154 | 267.567 | 269.007 | . 467 | 275.200 | . 982 |
| Services less medical care serv | 229 | 236.84 | 238.357 | 238.507 | 238.604 | 238.657 | 238.671 | 238.894 | 240.201 | 241.0 | 242.310 | 242.921 | 243 | 246.219 | 248.007 |
| Energy. | 96.9 | 207.723 | 217.274 | 209.294 | 209.637 | 207.588 | 219.009 | 217.506 | 219.465 | 219.311 | 230.505 | 240.194 | 257.106 | 275.621 | 280.833 |
| All items less energ | 3.7 | 208.925 | 208.980 | 209.399 | 210.000 | 210.714 | 210.888 | 210.890 | 211.846 | 212.545 | 213.420 | 213.851 | 214.101 | 214.600 | 215.335 |
| All items less food and energy | 5.9 | 210.729 | 210.756 | 211.111 | 211.628 | 212.318 | 212.435 | 212.356 | 213.138 | 213.866 | 214.866 | 215.059 | 215.180 | 215.553 | 45 |
| Commodities less food and en | 0.6 | 140.053 | 138.757 | 138.895 | 139.828 | 140.501 | 140.547 | 140.014 | 139.845 | 140.324 | 141.056 | 141.156 | 140.677 | 139.925 | 139.535 |
| Energy commoditie | 223.0 | 241.018 | 253.696 | 239.885 | 241.120 | 241.642 | 265 | 261.976 | 264.66 | 263.50 | 283.36 | 298.75 | 326.4 | 351.886 | 4.42 |
| Services less energy | 44.7 | 253.058 | 253.998 | 254.491 | 254.706 | 255.385 | 255.549 | 255.785 | 257.220 | 258.098 | 259.249 | 259.503 | 260.049 | 261.216 | 262.323 |
| CONSUMER PRICE INDEX FOR URBAN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AGE EARNERS AND CLERICAL WORKERS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All items | 197.1 | 202.767 | 203.700 | 203.199 | 203.889 | 204.338 | 205.891 | 205.777 | 206.744 | 207.25 | 209.14 | 210.698 | 212.788 | 215.223 | 216.304 |
| All items (1) | 7.2 | 603.982 | 606.759 | 605.267 | 607.324 | 608.662 | 613.287 | 612.948 | 615.828 | 617.345 | 622.985 | 627.606 | 633.830 | 641.082 | 03 |
| Food and be | 9 | 202.531 | 202.823 | 203.610 | 204.584 | 205.428 | 205.763 | 206.141 | 208.055 | 208.674 | 208.927 | 210.559 | 211.43 | 212.700 | 214.662 |
| Food. | 4 | 202.13 | 202.409 | 203.2 | 20 | 205.082 | 205.4 | 205.855 | 207.794 | 208.3 | 208.571 | 210.2 | 211 | 212.51 | 77 |
| Food at | 2 | 200.273 | 200.569 | 201.321 | 202.351 | 203.442 | 20 | 204.141 | 206.870 | 20 | 207.196 | 209.657 | 210.624 | . 079 | 79 |
| Cereals and bakery produ | 213.1 | 222.409 | 223.663 | 224.220 | 223.895 | 224.897 | 225.941 | 226.696 | 229.105 | 233.915 | 236.764 | 240.663 | 244.648 | 246.493 | 250.972 |
| Meats, poultry, fish, and eg | 186.1 | 195.193 | 196.323 | 196.844 | 197.980 | 198.146 | 198.325 | 198.489 | 199.686 | 199.141 | 199.484 | 200.285 | 200.501 | 202.424 | 204.557 |
| Dairy and related produ | 180.9 | 194.474 | 198.027 | 201.598 | 203.464 | 205.100 | 205.850 | 205.149 | 206.652 | 207.750 | 205.660 | 207.135 | 207.088 | 208.510 | 213.582 |
| Fruits and vegetables. | 251.0 | 260.484 | 252.703 | 251.575 | 257.223 | 261.774 | 265.736 | 269.533 | 275.843 | 268.954 | 266.030 | 270.169 | 274.136 | 276.641 | 278.885 |
| Nonalcoholic beverage |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 146.7 | 152.786 | 152.829 | 154.152 | 154.501 | 154.873 | 153.610 | 152.883 | 157.130 | 157.456 | 157.488 | 158.799 | 157.285 | 157.309 | 158.527 |
| Other food | 169.1 | 172.630 | 173.727 | 173.997 | 173.463 | 174.215 | 173.393 | 173.511 | 175.572 | 177.442 | 177.713 | 181.215 | 182.241 | 183.342 | 185.174 |
| Sugar and s | 0.5 | 175.323 | 176.736 | 176.664 | 176.458 | 176.248 | 176.845 | 177.051 | 178.902 | 179.740 | 181.033 | 183.725 | 184.127 | 184.378 | 186.054 |
| Fats and oils | 8.7 | 173.640 | 174.10 | 174.872 | 175.039 | 176.683 | 176.101 | 176.736 | 182.307 | 185.292 | 183.706 | 191.560 | 194.228 | 197.155 | 201.821 |
| Other foods. | 185.2 | 188.405 | 18 | 189.941 | 189.110 | 189.987 | 188.657 | 188.646 | 190.364 | . 430 | 192.832 | 106 | 081 | . 153 | 199.722 |
| Other miscellaneous foods | 114.2 | 115.356 | 115.355 | 116.348 | 114.584 | 115.378 | 115.803 | 115.658 | 115.658 | 118.828 | 117.754 | 118.751 | 119.248 | 118.879 | 121.015 |
| Food away from home ${ }^{1}$. | 199.1 | 206.412 | 206.657 | 207.533 | 208.578 | 209.037 | 209.518 | 209.931 | 210.776 | 211.517 | 212.193 | 212.794 | 213.7 | 214.8 | 216.177 |
| Other food away from home ${ }^{1}$ | 136.2 | 143.462 | 144.439 | 144.938 | 145.783 | 144.764 | 145.233 | 144.454 | 145.625 | 146.924 | 147.188 | 147.335 | 148.517 | 149.306 | 150.232 |
| Alcoholic | 200.6 | 207.09 | 207 | 208.25 | 208.28 | 209.176 | 208.95 | 208.93 | 210.473 | 212.50 | 212.74 | 213.63 | 213.486 | 213.97 | . 440 |
| Housing | 198.5 | 204.795 | 206.183 | 206.054 | 206.050 | 205.916 | 206.288 | 206.638 | 207.692 | 208.268 | 209.388 | 210.161 | 211.191 | 213.441 | 215.026 |
| Shelter | 224.8 | 232.998 | 233.848 | 234.169 | 234.275 | 234.812 | 235.069 | 235.480 | 236.550 | 237.15 | 237.965 | 238.261 | 238.35 | 239.198 | 239.845 |
| Rent of primary reside | 224.2 | 233.806 | 233.855 | 234.457 | 235.175 | 236.259 | 237.288 | 238.216 | 238.955 | 239.419 | 239.932 | 240.507 | 240.818 | 241.623 | 242.276 |
| Lodaing away from home ${ }^{2}$. | 135.3 | 142.339 | 153.107 | 149.919 | 143.727 | 142.666 | 136.244 | 133.179 | 139.825 | 143.046 | 148.110 | 145.936 | 144.97 | 148.378 | 152.248 |
| Owners' equivalent rent of primarv residence ${ }^{3}$.. | 216.0 | 223.175 | 223.093 | 223.693 | 224.321 | 224.811 | 225.548 | 226.151 | 226.703 | 227.057 | 227.488 | 227.893 | 228.007 | 228.536 | 228.824 |
| Tenants' and household insurance ${ }^{1,2}$. | 6.8 | 117.366 | 116.912 | 117.287 | 117.142 | 116.982 | 117.370 | 117.396 | 117.740 | 117.921 | 117.999 | 118.683 | 118.615 | 119.293 | 119.006 |
| Fuels and | 193.1 | 198.863 | 204.272 | 202.397 | 202.304 | 198.796 | 200.151 | 200.831 | 202.663 | 203.584 | 206.861 | 210.912 | 217.388 | 228.843 | 236.381 |
| Fuels. | 174.4 | 179.031 | 184.725 | 182.518 | 182.357 | 178.539 | 179.777 | 180.379 | 182.025 | 182.823 | 186.315 | 190.657 | 197.554 | 209.843 | 217.640 |
| Fuel oil and other fuels. | 234.0 | 251.121 | 245.633 | 246 | 252.68 | 261.972 | 292.098 | 298.65 | 306.087 | 307.599 | 329.271 | 339.009 | 358.9 | 381.903 | 388.208 |
| Gas (piped) and electricity.. | 180.2 | 184.357 | 191.010 | 188.511 | 187.963 | 183.172 | 182.781 | 183.066 | 184.522 | 185.324 | 188.143 | 192.434 | 199.04 | 211.39 | 219.612 |
| Household furnishings and opera | 122.6 | 122.477 | 122.550 | 122.190 | 121.820 | 122.039 | 122.031 | 121.880 | 122.322 | 122.547 | 123.184 | 123.10 | 123.28 | 123.43 | 123.798 |
| Apparel | 119.1 | 118.518 | 113.157 | 114.146 | 118.986 | 121.536 | 120.920 | 118.126 | 115.866 | 117.883 | 120.809 | 121.855 | 120.407 | 116.706 | 113.978 |
| Men's and boys' apparel... | 114.0 | 112.224 | 109.580 | 108.556 | 111.981 | 114.710 | 114.784 | 112.487 | 111.494 | 113.592 | 115.808 | 117.136 | 116.621 | 112.395 | 109.969 |
| Women's and girls' apparel.. | 110.3 | 110.202 | 101.709 | 103.960 | 110.847 | 113.623 | 112.165 | 109.375 | 104.456 | 106.512 | 110.712 | 110.971 | 108.594 | 104.062 | 99.772 |
| Infants' and toddlers' apparel ${ }^{1}$. | 118.6 | 116.278 | 110.906 | 112.879 | 115.896 | 119.670 | 119.897 | 116.419 | 116.323 | 118.442 | 118.990 | 119.200 | 117.213 | 114.057 | 111.502 |
| Footwear | 123.1 | 122.062 | 119.278 | 119.831 | 122.846 | 124.372 | 124.649 | 122.029 | 121.137 | 122.408 | 124.343 | 126.150 | 125.335 | 123.381 | 122.380 |
| Transportation... | 180.3 | 184.344 | 187.606 | 184.147 | 184.361 | 184.639 | 190.761 | 189.967 | 190.918 | 190.639 | 195.710 | 199.556 | 206.757 | 213.633 | 214.533 |
| Private transportation.. | 177.5 | 181.496 | 184.684 | 181.218 | 181.495 | 181.717 | 187.951 | 187.159 | 188.093 | 187.762 | 192.740 | 196.641 | 203.781 | 210.423 | 211.201 |
| New and used motor vehicles ${ }^{2}$. | 94.7 | 93.300 | 93.042 | 93.229 | 93.118 | 93.268 | 93.529 | 93.733 | 93.84 | 93.664 | 93.455 | 93.158 | 92.850 | 92.71 | 92.686 |

38. Continued-Consumer Price Indexes for All Urban Consumers and for Urban Wage Earners and Clerical Workers: U.S. city average, by expenditure category and commodity or service group
[1982-84 $=100$, unless otherwise indicated]

| Series | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| New vehicles | 138.6 | 137.415 | 136.663 | 136.414 | 136.129 | 136.509 | 137.372 | 137.736 | 137.931 | 137.445 | 136.910 | 136.456 | 135.933 | 135.728 | 135.556 |
| Used cars and trucks ${ }^{1}$. | 40.8 | 136.586 | 136.880 | 137.999 | 137.996 | 137.798 | 137.457 | 137.791 | 138.052 | 138.094 | 138.070 | 137.616 | 137.145 | 136.790 | 136.639 |
| Motor fin | 221.6 | 239.900 | 253.893 | 239.097 | 240.271 | 240.040 | 263.248 | 259.032 | 261.531 | 260.402 | 279.975 | 295.618 | 323.495 | 348.762 | 351.124 |
| Gasoline (all types) | 2.7 | 238.879 | 252.957 | 238.100 | 239.252 | 238.906 | 262.013 | 257.792 | 260.457 | 259.112 | 277.842 | 293.349 | 321.291 | 346.459 | 348.888 |
| Motor vehicle parts and equipment | 116.9 | 121.356 | 121.350 | 121.584 | 122.144 | 122.830 | 123.302 | 123.786 | 124.416 | 125.238 | 126.330 | 126.032 | 126.742 | 127.750 | 128.997 |
| Motor vehicle maintenance and repair | 218.1 | 225.535 | 226.090 | 226.636 | 226.881 | 227.472 | 228.267 | 228.692 | 230.255 | 231.349 | 232.344 | 232.983 | 234.221 | 235.550 | 237.324 |
| Public transportation. | 225.0 | 228.531 | 233.390 | 231.082 | 229.148 | 231.182 | 231.999 | 231.363 | 232.594 | 233.979 | 240.729 | 241.966 | 249.310 | 261.779 | 266.259 |
| Medical care | 335.7 | 350.882 | 351.346 | 352.704 | 353.571 | 355.719 | 357.165 | 357.745 | 360.710 | 362.329 | 363.069 | 363.356 | 363.462 | 363.628 | 363.942 |
| Medical care commoditie | 279.0 | 282.558 | 282.662 | 283.379 | 283.712 | 284.517 | 285.475 | 285.913 | 287.703 | 288.335 | 289.254 | 288.796 | 286.825 | 287.033 | 286.562 |
| Medical care services | 351.1 | 370.111 | 370.696 | 372.261 | 373.306 | 375.899 | 377.498 | 378.119 | 381.507 | 383.510 | 384.149 | 384.753 | 385.769 | 385.911 | 386.560 |
| Professional services | 291.7 | 303.169 | 303.481 | 304.677 | 304.841 | 306.072 | 306.300 | 307.333 | 309.169 | 310.426 | 311.259 | 311.757 | 313.294 | 313.618 | 314.235 |
| Hospital and related services | 46 | 493.740 | 493.563 | 495.191 | 498.533 | 505.077 | 510.836 | 510.961 | 518.853 | 523.654 | 524.534 | 526.495 | 527.230 | 527.948 | 529.798 |
| Recreation ${ }^{2}$. | 108.2 | 108.572 | 108.403 | 108.179 | 108.495 | 108.793 | 108.805 | 108.702 | 109.046 | 109.315 | 109.742 | 109.775 | 109.876 | 109.905 | 110.198 |
| Video and audio ${ }^{1,2}$ | 103.9 | 102.559 | 102.358 | 101.923 | 102.427 | 102.833 | 102.465 | 102.523 | 102.839 | 103.028 | 103.525 | 103.414 | 102.958 | 102.306 | 102.267 |
| Education and commun | 113.9 | 116.301 | 115.980 | 116.981 | 117.707 | 117.891 | 117.686 | 117.782 | 118.097 | 118.079 | 118.155 | 118.462 | 118.737 | 119.264 | 119.852 |
| Education ${ }^{2}$ | 160.3 | 169.280 | 167.527 | 170.635 | 173.060 | 173.700 | 174.016 | 174.276 | 175.134 | 175.118 | 175.101 | 175.545 | 175.791 | 176.148 | 176.879 |
| Educational books and supplies | 390.7 | 423.730 | 421.529 | 431.089 | 433.670 | 434.800 | 434.979 | 437.391 | 441.207 | 441.927 | 442.639 | 444.594 | 445.394 | 445.740 | 446.741 |
| Tuition, other school fees, and child | 453.3 | 477.589 | 472.395 | 480.960 | 488.199 | 490.061 | 491.022 | 491.554 | 493.797 | 493.672 | 493.546 | 494.711 | 495.384 | 496.449 | 498.598 |
| Communication ${ }^{1,2}$ | 86.0 | 85.782 | 86.015 | 86.148 | 86.184 | 86.182 | 85.807 | 85.834 | 85.935 | 85.919 | 86.016 | 86.244 | 86.496 | 87.017 | 87.490 |
| Information and information processing | 84.3 | 83.928 | 84.111 | 84.248 | 84.283 | 84.282 | 83.894 | 83.917 | 84.008 | 83.992 | 84.091 | 84.320 | 84.511 | 85.007 | 85.484 |
| Telephone services ${ }^{1,2}$ | 95.9 | 98.373 | 98.721 | 98.964 | 99.024 | 99.149 | 98.874 | 98.887 | 98.988 | 98.931 | 99.090 | 99.566 | 99.939 | 100.723 | 101.375 |
| Information and information processing |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| other than telephone services | 13.0 | 11.062 | 11.001 | 10.965 | 10.958 | 10.877 | 10.710 | 10.722 | 10.737 | 10.754 | 10.745 | 10.671 | 10.621 | 10.585 | 10.600 |
| Personal computers and peripheral equipment ${ }^{1,2}$ | 121.0 | 108.164 | 107.371 | 106.531 | 105.713 | 104.366 | 100.257 | 100.000 | 101.067 | 100.582 | 100.265 | 98.820 | 97.010 | 95.766 | 94.691 |
| Other goods and services | 330.9 | 344.004 | 344.221 | 344.214 | 345.800 | 346.742 | 347.427 | 348.830 | 350.630 | 351.979 | 353.351 | 354.887 | 356.523 | 358.419 | 359.961 |
| Tobacco and smoking produ | 521.6 | 555.502 | 555.366 | 556.517 | 561.092 | 562.134 | 563.435 | 568.410 | 574.724 | 577.359 | 576.910 | 578.296 | 583.296 | 592.248 | 599.180 |
| Personal care ${ }^{1}$. | 188.3 | 193.590 | 193.792 | 193.598 | 194.160 | 194.769 | 195.122 | 195.467 | 195.885 | 196.564 | 197.803 | 198.859 | 199.367 | 199.404 | 199.495 |
| Personal care products ${ }^{1}$ | 5.7 | 158.268 | 158.445 | 157.813 | 157.654 | 158.408 | 158.579 | 158.407 | 158.167 | 157.877 | 158.730 | 159.585 | 158.993 | 159.052 | 159.237 |
| Personal care services ${ }^{1}$ | 209.8 | 216.823 | 217.040 | 217.354 | 217.822 | 218.149 | 218.897 | 219.945 | 220.324 | 221.338 | 223.043 | 223.088 | 223.922 | 223.838 | 223.994 |
| Miscellaneous personal serv | 314.1 | 326.100 | 326.135 | 327.235 | 329.329 | 329.706 | 330.258 | 330.850 | 333.154 | 334.868 | 336.476 | 338.851 | 341.212 | 341.921 | 341.763 |
| Commodity and service group: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Commodities | 165.7 | 169.554 | 170.252 | 169.122 | 170.141 | 170.865 | 173.489 | 172.952 | 173.711 | 174.083 | 176.727 | 178.900 | 181.837 | 184.495 | 185.105 |
| Food and beverages. | 194.9 | 202.531 | 202.823 | 203.610 | 204.584 | 205.428 | 205.763 | 206.141 | 208.055 | 208.674 | 208.927 | 210.559 | 211.438 | 212.700 | 214.662 |
| Commodities less food and beverages. | 148.7 | 150.865 | 151.724 | 149.781 | 150.795 | 151.448 | 155.011 | 154.086 | 154.345 | 154.603 | 158.156 | 160.488 | 164.188 | 167.344 | 167.376 |
| Nondurables less food and beverages | 182.6 | 189.507 | 191.603 | 187.515 | 189.981 | 191.230 | 198.661 | 196.636 | 196.910 | 197.606 | 205.166 | 210.558 | 218.794 | 225.585 | 225.595 |
| Appare | 119.1 | 118.518 | 113.157 | 114.146 | 118.986 | 121.536 | 120.920 | 118.126 | 115.866 | 117.883 | 120.809 | 121.855 | 120.407 | 116.706 | 113.978 |
| Nondurables less food, beverages, and apparel. | 226.1 | 237.858 | 244.695 | 237.329 | 238.345 | 238.798 | 251.442 | 249.863 | 251.751 | 251.621 | 262.252 | 270.496 | 285.024 | 298.593 | 300.341 |
| Durable | 114.6 | 112.640 | 112.425 | 112.362 | 112.114 | 112.241 | 112.413 | 112.450 | 112.688 | 112.560 | 112.549 | 112.171 | 111.845 | 111.769 | 111.820 |
| Services | 234.1 | 241.696 | 242.901 | 243.118 | 243.436 | 243.572 | 243.906 | 244.275 | 245.484 | 246.154 | 247.197 | 248.045 | 249.175 | 251.365 | 252.991 |
| Rent of shelter ${ }^{3}$. | 216.6 | 224.617 | 225.455 | 225.760 | 225.867 | 226.393 | 226.636 | 227.035 | 228.071 | 228.660 | 229.443 | 229.719 | 229.810 | 230.620 | 231.255 |
| Transporatation ser | 230.6 | 233.420 | 233.737 | 233.831 | 233.868 | 234.848 | 235.874 | 236.020 | 236.883 | 237.426 | 238.496 | 239.044 | 240.728 | 243.395 | 245.005 |
| Other services | 268.2 | 275.218 | 274.766 | 276.015 | 277.702 | 278.404 | 278.513 | 278.783 | 279.780 | 280.199 | 281.017 | 281.829 | 282.720 | 283.449 | 284.449 |
| Special indexes: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| All items less food. | 197.5 | 202.698 | 203.750 | 203.011 | 203.638 | 204.015 | 205.783 | 205.575 | 206.371 | 206.877 | 209.055 | 210.583 | 212.870 | 215.498 | 216.407 |
| All items less shelter. | 189.2 | 193.940 | 194.913 | 194.109 | 195.018 | 195.440 | 197.479 | 197.174 | 198.113 | 198.592 | 200.904 | 202.931 | 205.774 | 208.817 | 210.069 |
| All items less medical care | 191.3 | 196.564 | 197.504 | 196.949 | 197.629 | 198.022 | 199.565 | 199.431 | 200.329 | 200.800 | 202.713 | 204.290 | 206.423 | 208.90 | 210.002 |
| Commodities less food. | 150.6 | 152.875 | 153.730 | 151.846 | 152.837 | 153.499 | 156.977 | 156.073 | 156.365 | 156.670 | 160.152 | 162.455 | 166.070 | 169.169 | 169.213 |
| Nondurables less food. | 183.8 | 190.698 | 192.714 | 188.873 | 191.210 | 192.442 | 199.471 | 197.551 | 197.892 | 198.660 | 205.843 | 211.005 | 218.809 | 225.276 | 225.309 |
| Nondurables less food and appa | 223.0 | 234.201 | 240.471 | 233.817 | 234.745 | 235.233 | 246.726 | 245.286 | 247.136 | 247.188 | 256.899 | 264.488 | 277.717 | 290.127 | 291.760 |
| Nondurables. | 189.5 | 196.772 | 198.000 | 196.266 | 198.017 | 199.075 | 203.087 | 202.222 | 203.268 | 203.933 | 208.101 | 211.757 | 216.582 | 220.813 | 221.740 |
| Services less rent of shelter ${ }^{3}$. | 224.7 | 230.876 | 232.367 | 232.450 | 232.982 | 232.628 | 233.029 | 233.314 | 234.576 | 235.258 | 236.483 | 237.922 | 240.181 | 243.780 | 246.411 |
| Services less medical care services. | 225.3 | 232.195 | 233.415 | 233.562 | 233.839 | 233.850 | 234.115 | 234.468 | 235.557 | 236.154 | 237.201 | 238.048 | 239.167 | 241.422 | 243.071 |
| Energy.. | 196.8 | 208.066 | 217.795 | 209.441 | 209.933 | 207.885 | 219.861 | 218.104 | 220.163 | 219.983 | 231.533 | 241.518 | 258.903 | 277.597 | 282.579 |
| All items less energy. | 198.0 | 203.002 | 202.849 | 203.319 | 204.037 | 204.797 | 205.066 | 205.155 | 205.991 | 206.588 | 207.296 | 207.812 | 208.021 | 208.458 | 209.062 |
| All items less food and energy. | 199.2 | 203.554 | 203.310 | 203.710 | 204.363 | 205.107 | 205.355 | 205.377 | 205.992 | 206.605 | 207.406 | 207.687 | 207.747 | 208.007 | 208.317 |
| Commodities less food and energy | 141.1 | 140.612 | 139.352 | 139.557 | 140.491 | 141.236 | 141.254 | 140.815 | 140.696 | 141.238 | 141.973 | 142.040 | 141.558 | 140.878 | 140.492 |
| Energy commodities. | 223.0 | 241.257 | 254.282 | 240.247 | 241.692 | 241.955 | 265.598 | 261.928 | 264.633 | 263.601 | 283.359 | 298.852 | 326.565 | 351.873 | 354.402 |
| Services less energy. | 239.9 | 247.888 | 248.434 | 248.977 | 249.398 | 250.127 | 250.546 | 250.925 | 252.103 | 252.756 | 253.589 | 254.031 | 254.517 | 255.513 | 256.365 |

[^25]${ }^{4}$ Indexes on a December $1988=100$ base.
NOTE: Index applied to a month as a whole, not to any specific date.
39. Consumer Price Index: U.S. city average and available local area data: all items
[1982-84 = 100, unless otherwise indicated]

|  | Pricing <br> sched- <br> $u{ }^{1}{ }^{1}$ | All Urban Consumers |  |  |  |  |  | Urban Wage Earners |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2008 |  |  |  |  |  | 2008 |  |  |  |  |  |
|  |  | Feb. | Mar. | Apr. | May | June | July | Feb. | Mar. | Apr. | May | June | July |
| U.S. city average | M | 211.693 | 213.528 | 214.823 | 216.632 | 218.815 | 219.964 | 207.254 | 209.147 | 210.698 | 212.788 | 215.223 | 216.304 |
| Region and area size ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northeast urban | M | 225.213 | 226.926 | 228.133 | 230.089 | 232.649 | 234.545 | 221.702 | 223.209 | 224.794 | 227.114 | 229.829 | 231.488 |
| Size A-More than 1,500,000.. | M | 227.411 | 229.087 | 230.038 | 232.005 | 234.518 | 236.460 | 222.315 | 223.795 | 225.144 | 227.412 | 230.120 | 231.808 |
| Size B/C-50,000 to 1,500,000 ${ }^{3}$. | M | 133.511 | 134.611 | 135.739 | 136.913 | 138.542 | 139.623 | 133.893 | 134.846 | 136.141 | 137.624 | 139.286 | 140.253 |
| Midwest urban ${ }^{4}$. | M | 201.896 | 203.723 | 205.393 | 207.168 | 208.968 | 210.071 | 197.110 | 198.989 | 200.788 | 202.912 | 204.867 | 206.038 |
| Size A-More than 1,500,000 | M | 203.347 | 205.141 | 206.590 | 208.291 | 209.813 | 211.003 | 197.549 | 199.378 | 200.989 | 202.969 | 204.509 | 205.761 |
| Size B/C-50,000 to 1,500,000 ${ }^{3}$. | M | 128.922 | 130.121 | 131.484 | 132.682 | 134.018 | 134.595 | 128.695 | 129.922 | 131.354 | 132.867 | 134.409 | 135.037 |
| Size D-Nonmetropolitan (less than 50,000). | M | 197.596 | 199.472 | 200.841 | 202.720 | 205.122 | 206.435 | 195.774 | 197.864 | 199.325 | 201.494 | 204.023 | 205.452 |
| South urban | M | 205.060 | 206.676 | 208.085 | 210.006 | 212.324 | 213.304 | 202.291 | 204.044 | 205.669 | 207.912 | 210.469 | 211.438 |
| Size A-More than 1,500,000 | M | 207.605 | 209.065 | 209.987 | 211.846 | 214.359 | 215.373 | 205.588 | 207.336 | 208.511 | 210.748 | 213.549 | 214.379 |
| Size B/C-50,000 to $1,500,000^{3}$. | M | 130.351 | 131.442 | 132.516 | 133.714 | 134.980 | 135.643 | 129.144 | 130.243 | 131.428 | 132.808 | 134.222 | 134.952 |
| Size D-Nonmetropolitan (less than 50,000) | M | 205.189 | 206.933 | 208.746 | 211.225 | 214.739 | 215.274 | 205.523 | 207.600 | 209.641 | 212.533 | 216.357 | 216.901 |
| West urban. | M | 216.339 | 218.533 | 219.437 | 221.009 | 223.040 | 223.867 | 210.816 | 213.159 | 214.355 | 216.029 | 218.508 | 219.248 |
| Size A-More than 1,500,000..... | M | 219.799 | 221.997 | 222.689 | 224.704 | 226.767 | 227.562 | 212.614 | 214.954 | 216.055 | 218.141 | 220.603 | 221.232 |
| Size B/C-50,000 to 1,500,000 ${ }^{\text {. }}$. | M | 131.538 | 132.896 | 133.694 | 134.023 | 135.283 | 136.021 | 131.148 | 132.640 | 133.570 | 134.133 | 135.738 | 136.478 |
| Size classes: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $A^{5} .$ | M | 193.685 | 195.314 | 196.191 | 197.898 | 199.840 | 200.941 | 191.982 | 193.702 | 194.886 | 196.844 | 199.028 | 200.009 |
| $B / C^{3}$ | M | 130.728 | 131.892 | 132.974 | 133.997 | 135.330 | 136.055 | 130.092 | 131.273 | 132.471 | 133.729 | 135.240 | 135.986 |
| D.... | M | 203.803 | 205.730 | 207.238 | 209.308 | 211.989 | 212.555 | 202.292 | 204.422 | 205.951 | 208.246 | 211.236 | 211.929 |
| Selected local areas ${ }^{6}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Chicago-Gary-Kenosha, IL-IN-WI... | M | 209.526 | 211.542 | 212.662 | 214.932 | 215.738 | 217.459 | 202.497 | 204.742 | 205.885 | 208.403 | 209.021 | 211.020 |
| Los Angeles-Riverside-Orange County, CA. | M | 221.431 | 223.606 | 224.625 | 226.651 | 229.033 | 229.886 | 214.231 | 216.493 | 217.914 | 219.702 | 222.435 | 223.245 |
| New York, NY-Northern NJ-Long Island, NY-NJ-CT-PA.. | M | 231.020 | 233.122 | 233.822 | 236.151 | 238.580 | 240.273 | 225.281 | 226.951 | 228.215 | 230.923 | 233.776 | 235.446 |
| Boston-Brockton-Nashua, MA-NH-ME-CT | 1 |  | 233.084 |  | 235.344 |  | 241.258 |  | 232.656 |  | 235.419 | - | 240.511 |
| Cleveland-Akron, OH.. | 1 | - | 202.500 |  | 204.882 | - | 206.941 | - | 192.995 | - | 195.898 | - | 198.063 |
| Dallas-Ft Worth, TX. | 1 | - | 198.596 | - | 202.357 | - | 206.413 | - | 201.892 | - | 206.258 | - | 210.830 |
| Washington-Baltimore, DC-MD-VA-WV ${ }^{7}$. | 1 | - | 138.090 | - | 139.649 | - | 142.065 | - | 137.544 | - | 139.332 | - | 141.622 |
| Atlanta, GA.. | 2 | 204.166 |  | 206.371 |  | 212.032 |  | 203.473 |  | 205.801 |  | 212.013 | - |
| Detroit-Ann Arbor-Flint, MI. | 2 | 202.378 |  | 205.281 |  | 207.593 |  | 197.670 |  | 201.037 | - | 203.524 | - |
| Houston-Galveston-Brazoria, TX | 2 | 187.585 | - | 188.795 |  | 193.567 |  | 185.904 |  | 188.463 |  | 193.742 | - |
| Miami-Ft. Lauderdale, FL. | 2 | 219.082 | - | 221.324 |  | 225.079 |  | 216.971 |  | 219.456 |  | 223.849 | - |
| Philadelphia-Wilmington-Atlantic City, PA-NJ-DE-MD. | 2 | 220.935 | - | 223.622 | - | 228.408 |  | 220.718 |  | 223.295 |  | 228.429 | - |
| San Francisco-Oakland-San Jose, CA.. | 2 | 219.612 | - | 222.074 | - | 225.181 |  | 214.913 |  | 217.913 | - | 221.454 | - |
| Seattle-Tacoma-Bremerton, WA... | 2 | 221.728 |  | 223.196 |  | 228.068 |  | 216.332 |  | 218.483 |  | 223.573 | - |

${ }^{1}$ 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.
${ }^{2}$ Regions defined as the four Census regions
${ }^{3}$ Indexes on a December $1996=100$ base
${ }^{4}$ The "North Central" region has been renamed the "Midwest" region by the Census Bureau. It is composed of the same geographic entities.
${ }^{5}$ Indexes on a December 1986 = 100 base
${ }^{6}$ In addition, the following metropolitan areas are published semiannually and appear in tables 34 and 39 of the January and July issues of the CPI Detailed

Report: Anchorage, AK; Cincinnatti, OH-KY-IN; Kansas City, MO-KS; Milwaukee-Racine, WI; Minneapolis-St. Paul, MN-WI; Pittsburgh, PA; Port-land-Salem, OR-WA; St Louis, MO-IL; San Diego, CA; Tampa-St. Petersburg-Clearwater, FL.
${ }^{7}$ Indexes on a November $1996=100$ base.
NOTE: Local area CPI indexes are byproducts of the national CPI program. Each local index has a smaller sample size and is, therefore, subject to substantially more sampling and other measurement error. As a result, local area indexes show greater volatility than the national index, although their long-term trends are similar. Therefore, the Bureau of Labor Statistics strongly urges users to consider adopting the national average CPI for use in their escalator clauses. Index applies to a month as a whole, not to any specific date. Dash indicates data not available.
40. Annual data: Consumer Price Index, U.S. city average, all items and major groups

| Series | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Consumer Price Index for All Urban Consumers: |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Index... | 160.5 | 163.0 | 166.6 | 172.2 | 177.1 | 179.9 | 184.0 | 188.9 | 195.3 | 201.6 | 207.342 |
| Percent change. | 2.3 | 1.6 | 2.2 | 3.4 | 2.8 | 1.6 | 2.3 | 2.7 | 3.4 | 3.2 | 2.8 |
| Food and beverages: |  |  |  |  |  |  |  |  |  |  |  |
| Index... | 157.7 | 161.1 | 164.6 | 168.4 | 173.6 | 176.8 | 180.5 | 186.6 | 191.2 | 195.7 | 203.300 |
| Percent change. | 2.6 | 2.2 | 2.2 | 2.3 | 3.1 | 1.8 | 2.1 | 3.3 | 2.5 | 2.4 | 3.9 |
| Housing: |  |  |  |  |  |  |  |  |  |  |  |
| Index.. | 156.8 | 160.4 | 163.9 | 169.6 | 176.4 | 180.3 | 184.8 | 189.5 | 195.7 | 203.2 | 209.586 |
| Percent change. | 2.6 | 2.3 | 2.2 | 3.5 | 4.0 | 2.2 | 2.5 | 2.5 | 3.3 | 3.8 | 3.1 |
| Apparel: |  |  |  |  |  |  |  |  |  |  |  |
| Index... | 132.9 | 133.0 | 131.3 | 129.6 | 127.3 | 124.0 | 120.9 | 120.4 | 119.5 | 119.5 | 118.998 |
| Percent change.. | . 9 | . 1 | -1.3 | -1.3 | -1.8 | -2.6 | -2.5 | -. 4 | -. 7 | . 0 | -0.4 |
| Transportation: |  |  |  |  |  |  |  |  |  |  |  |
| Index....... | 144.3 | 141.6 | 144.4 | 153.3 | 154.3 | 152.9 | 157.6 | 163.1 | 173.9 | 180.9 | 184.682 |
| Percent change. | 0.9 | -1.9 | 2.0 | 6.2 | 0.7 | -. 9 | 3.1 | 3.5 | 6.6 | 4.0 | 2.1 |
| Medical care: |  |  |  |  |  |  |  |  |  |  |  |
| Index....... | 234.6 | 242.1 | 250.6 | 260.8 | 272.8 | 285.6 | 297.1 | 310.1 | 323.2 | 336.2 | 351.054 |
| Percent change. | 2.8 | 3.2 | 3.5 | 4.1 | 4.6 | 4.7 | 4.0 | 4.4 | 4.2 | 4.0 | 4.4 |
| Other goods and services: |  |  |  |  |  |  |  |  |  |  |  |
| Index.......... | 224.8 | 237.7 | 258.3 | 271.1 | 282.6 | 293.2 | 298.7 | 304.7 | 313.4 | 321.7 | 333.328 |
| Percent change.. | 4.4 | 5.7 | 8.7 | 5.0 | 4.2 | 3.8 | 1.9 | 2.0 | 2.9 | 2.6 | 3.6 |
| Consumer Price Index for Urban Wage Earners and Clerical Workers: |  |  |  |  |  |  |  |  |  |  |  |
| Index........... | 157.6 | 159.7 | 163.2 | 168.9 | 173.5 | 175.9 | 179.8 | 184.5 | 191.0 | 197.1 | 202.767 |
| Percent change..................................... | 2.3 | 1.3 | 2.2 | 3.5 | 2.7 | 1.4 | 2.2 | 5.1 | 1.1 | 3.2 | 2.9 |

41. Producer Price Indexes, by stage of processing
[1982 = 100]

| Grouping | Annual average |  | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2006 | 2007 | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ${ }^{\text {p }}$ | May ${ }^{\text {p }}$ | June ${ }^{\text {p }}$ | July ${ }^{\text {p }}$ |
| Finished goods. | 160.4 | 166.6 | 168.5 | 166.1 | 167.4 | 168.6 | 171.4 | 170.4 | 172.0 | 172.3 | 175.1 | 176.7 | 179.6 | 182.5 | 185.0 |
| Finished consumer goods. | 166.0 | 173.5 | 176.2 | 173.0 | 174.8 | 175.9 | 179.4 | 178.2 | 180.1 | 180.4 | 184.2 | 186.0 | 190.1 | 193.9 | 197.1 |
| Finished consumer foods. | 156.7 | 167.0 | 166.4 | 166.3 | 168.4 | 169.7 | 169.5 | 172.2 | 174.5 | 173.6 | 176.0 | 175.4 | 177.7 | 180.1 | 180.9 |
| Finished consumer goods excluding foods $\qquad$ | 169.2 | 175.6 | 179.7 | 175.3 | 177.0 | 177.9 | 182.9 | 180.1 | 181.9 | 182.7 | 187.1 | 189.8 | 194.7 | 199.1 | 203.2 |
| Nondurable goods less fo | 182.6 | 191.7 | 198.1 | 191.8 | 194.6 | 194.5 | 201.5 | 197.9 | 200.3 | 201.4 | 208.2 | 211.4 | 219.6 | 226.5 | 232.5 |
| Durable goods. | 136.9 | 138.3 | 137.6 | 137.2 | 136.7 | 139.8 | 140.2 | 139.5 | 140.1 | 140.2 | 139.9 | 140.7 | 140.1 | 139.8 | 140.3 |
| Capital equipment. | 146.9 | 149.5 | 149.1 | 149.0 | 148.9 | 150.6 | 151.0 | 150.7 | 151.4 | 151.8 | 151.8 | 152.5 | 152.5 | 152.7 | 153.6 |
| Intermediate materials, supplies, and components..... | 164.0 | 170.7 | 173.6 | 171.5 | 172.2 | 172.2 | 176.2 | 175.7 | 177.8 | 179.1 | 184.5 | 186.9 | 192.6 | 196.9 | 202.5 |
| Materials and components for manufacturing $\qquad$ | 155.9 | 162.4 | 164.5 | 163.4 | 163.3 | 164.4 | 166.1 | 166.3 | 168.4 | 170.1 | 173.1 | 174.5 | 178.8 | 181.6 | 186.6 |
| Materials for food manufacturing. | 146.2 | 161.4 | 163.6 | 164.5 | 166.6 | 166.3 | 166.6 | 169.8 | 173.6 | 176.7 | 180.0 | 179.7 | 182.8 | 185.7 | 187.7 |
| Materials for nondurable manufacturing... | 175.0 | 184.0 | 187.1 | 185.0 | 186.0 | 189.4 | 195.1 | 195.1 | 199.3 | 201.5 | 206.0 | 207.7 | 214.4 | 220.1 | 231.9 |
| Materials for durable manufacturing..... | 180.5 | 189.8 | 195.1 | 191.8 | 189.1 | 189.0 | 188.6 | 188.1 | 189.5 | 193.1 | 200.3 | 203.5 | 212.8 | 216.3 | 219.4 |
| Components for manufacturing............... | 134.5 | 136.3 | 136.4 | 136.5 | 136.5 | 136.6 | 136.7 | 136.8 | 137.4 | 137.8 | 137.9 | 138.8 | 139.3 | 139.9 | 141.4 |
| Materials and components for construction. $\qquad$ | 188.4 | 192.5 | 193.5 | 193.5 | 193.2 | 193.2 | 193.2 | 193.4 | 194.4 | 195.7 | 197.3 | 199.3 | 203.4 | 206.3 | 209.9 |
| Processed fuels and lubricants. | 162.8 | 173.9 | 183.0 | 175.3 | 178.4 | 175.5 | 189.7 | 186.3 | 188.6 | 189.0 | 206.1 | 212.3 | 227.2 | 238.6 | 249.6 |
| Containers. | 175.0 | 180.3 | 180.2 | 180.5 | 181.0 | 182.3 | 183.2 | 183.4 | 185.1 | 185.7 | 185.9 | 187.0 | 188.0 | 188.5 | 191.6 |
| Supplies. | 157.0 | 161.7 | 161.9 | 162.0 | 162.3 | 163.0 | 163.9 | 164.6 | 166.8 | 168.1 | 170.0 | 170.5 | 172.9 | 174.3 | 177.7 |
| Crude materials for further |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| processing.................. | 184.8 | 207.1 | 210.3 | 202.8 | 204.6 | 211.8 | 225.6 | 229.0 | 235.5 | 245.5 | 262.1 | 274.3 | 294.4 | 305.2 | 317.9 |
| Foodstuffs and feedstuffs. | 119.3 | 146.7 | 150.0 | 147.8 | 151.9 | 150.0 | 152.9 | 158.5 | 162.6 | 165.4 | 169.2 | 166.5 | 172.7 | 178.9 | 179.3 |
| Crude nonfood materials. | 230.6 | 246.3 | 249.2 | 237.6 | 237.4 | 252.0 | 274.1 | 275.4 | 283.8 | 299.9 | 327.7 | 349.9 | 385.4 | 399.6 | 423.3 |
| Special groupings: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Finished goods, excluding foods. | 161.0 | 166.2 | 168.8 | 165.8 | 166.9 | 168.1 | 171.6 | 169.6 | 171.0 | 171.7 | 174.6 | 176.7 | 179.8 | 182.8 | 185.9 |
| Finished energy goods....... | 145.9 | 156.3 | 166.4 | 155.6 | 159.7 | 159.1 | 170.4 | 163.8 | 166.6 | 167.2 | 177.5 | 182.6 | 193.8 | 204.3 | 213.0 |
| Finished goods less energy.. | 157.9 | 162.8 | 162.4 | 162.5 | 163.0 | 164.7 | 164.9 | 165.5 | 166.7 | 167.0 | 167.6 | 168.1 | 168.8 | 169.5 | 170.4 |
| Finished consumer goods less energy | 162.7 | 168.7 | 168.3 | 168.4 | 169.2 | 170.8 | 171.0 | 172.0 | 173.5 | 173.7 | 174.7 | 174.9 | 176.0 | 177.0 | 177.8 |
| Finished goods less food and energy | 158.7 | 161.7 | 161.4 | 161.5 | 161.5 | 163.2 | 163.6 | 163.5 | 164.4 | 165.0 | 165.1 | 165.9 | 166.1 | 166.2 | 167.1 |
| Finished consumer goods less food and energy $\qquad$ | 166.7 | 170.0 | 169.7 | 170.0 | 170.0 | 171.8 | 172.2 | 172.2 | 173.2 | 174.0 | 174.1 | 175.0 | 175.3 | 175.4 | 176.2 |
| Consumer nondurable goods less food |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| and energy............................... | 191.5 | 197.0 | 197.1 | 197.9 | 198.3 | 199.0 | 199.3 | 200.0 | 201.4 | 203.0 | 203.6 | 204.2 | 205.9 | 206.4 | 207.6 |
| Intermediate materials less foods and feeds. | 165.4 | 171.5 | 174.5 | 172.3 | 172.9 | 172.9 | 177.0 | 176.3 | 178.2 | 179.4 | 184.7 | 187.4 | 193.1 | 197.4 | 203.0 |
| Intermediate foods and feeds.. | 135.2 | 154.4 | 155.9 | 156.3 | 158.2 | 159.6 | 161.4 | 164.6 | 170.6 | 175.0 | 180.3 | 178.6 | 184.8 | 186.8 | 194.6 |
| Intermediate energy goods. | 162.8 | 174.6 | 184.2 | 177.0 | 179.5 | 177.4 | 191.1 | 187.8 | 190.5 | 191.5 | 208.6 | 213.8 | 228.6 | 240.5 | 253.0 |
| Intermediate goods less energy...... | 162.1 | 167.6 | 168.8 | 168.1 | 168.2 | 168.9 | 170.2 | 170.4 | 172.3 | 173.7 | 176.0 | 177.4 | 181.1 | 183.4 | 187.3 |
| Intermediate materials less foods and energy | 163.8 | 168.4 | 169.6 | 168.8 | 168.9 | 169.5 | 170.8 | 170.9 | 172.5 | 173.7 | 175.8 | 177.5 | 181.0 | 183.2 | 186.9 |
| Crude energy materials. | 226.9 | 232.8 | 236.8 | 221.7 | 219.9 | 237.7 | 267.1 | 268.3 | 273.6 | 291.7 | 325.4 | 344.1 | 389.0 | 409.7 | 437.9 |
| Crude materials less energy... | 152.3 | 182.6 | 185.5 | 183.8 | 188.3 | 187.4 | 189.2 | 194.1 | 200.9 | 205.9 | 211.7 | 215.4 | 224.4 | 229.1 | 232.2 |
| Crude nonfood materials less energy...... | 244.5 | 282.6 | 284.0 | 284.7 | 289.9 | 292.8 | 289.9 | 291.7 | 307.3 | 319.7 | 332.1 | 359.4 | 376.2 | 374.5 | 387.2 |

[^26]42. Producer Price Indexes for the net output of major industry groups
[December $2003=100$, unless otherwise indicated]

| NAICS | Industry | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. ${ }^{\text {p }}$ | May ${ }^{\text {p }}$ | June ${ }^{\text {p }}$ | July ${ }^{\text {p }}$ |
|  | Total mining industries (December 1984=100). | 222.3 | 212.5 | 214.3 | 228.3 | 249.3 | 249.5 | 254.2 | 263.8 | 287.2 | 299.0 | 328.9 | 345.9 | 368.9 |
| 211 | Oil and gas extraction (December 1985=100) | 269.6 | 254.1 | 256.2 | 279.6 | 314.8 | 315.9 | 321.9 | 335.0 | 371.6 | 390.3 | 440.5 | 463.5 | 499.4 |
| 212 | Mining, except oil and gas................ | 162.4 | 160.8 | 162.2 | 162.4 | 161.3 | 161.2 | 164.9 | 170.3 | 174.8 | 176.4 | 174.3 | 185.1 | 189.3 |
| 213 | Mining support activities.. | 168.9 | 168.6 | 169.7 | 168.5 | 168.7 | 164.9 | 167.2 | 168.8 | 169.8 | 170.0 | 171.3 | 174.6 | 176.5 |
|  | Total manufacturing industries (December 1984=100).. | 164.9 | 163.0 | 163.7 | 164.5 | 168.0 | 166.9 | 168.5 | 169.6 | 173.4 | 175.1 | 179.3 | 182.0 | 185.6 |
| 311 | Food manufacturing (December 1984=100). | 160.4 | 160.3 | 160.8 | 160.7 | 161.4 | 162.8 | 165.8 | 167.5 | 169.8 | 170.9 | 174.2 | 176.3 | 180.1 |
| 312 | Beverage and tobacco manufacturing.. | 109.2 | 109.9 | 110.3 | 111.1 | 111.1 | 111.2 | 112.1 | 112.7 | 112.7 | 113.0 | 114.4 | 114.2 | 115.2 |
| 313 | Textile mills.. | 108.4 | 108.6 | 108.7 | 108.9 | 109.1 | 109.3 | 110.1 | 110.3 | 110.4 | 110.8 | 111.7 | 111.7 | 112.6 |
| 315 | Apparel manufacturing | 101.5 | 101.5 | 101.3 | 101.5 | 101.5 | 101.5 | 101.8 | 101.8 | 102.0 | 102.2 | 102.2 | 102.2 | 102.4 |
| 316 | Leather and allied product manufacturing (December 1984=100) | 149.4 | 149.9 | 150.0 | 150.4 | 150.5 | 151.1 | 152.0 | 152.4 | 152.6 | 152.8 | 152.7 | 153.9 | 154.4 |
| 321 | Wood products manufacturing... | 108.4 | 107.8 | 107.2 | 106.5 | 106.1 | 106.1 | 105.7 | 105.5 | 105.9 | 106.0 | 108.3 | 109.5 | 109.0 |
| 322 | Paper manufacturing... | 115.4 | 115.6 | 116.1 | 117.1 | 117.8 | 118.0 | 118.5 | 119.2 | 119.6 | 120.2 | 120.4 | 120.8 | 121.6 |
| 323 | Printing and related support activities. | 106.7 | 106.8 | 107.0 | 107.1 | 107.2 | 107.4 | 107.8 | 108.1 | 108.2 | 109.2 | 109.4 | 109.5 | 110.0 |
| 324 | Petroleum and coal products manufacturing <br> (December 1984=100). | 283.1 | 258.0 | 267.4 | 266.9 | 305.5 | 288.4 | 294.9 | 298.4 | 337.1 | 347.6 | 384.1 | 406.0 | 428.9 |
| 325 | Chemical manufacturing (December 1984=100) | 203.6 | 204.9 | 205.0 | 206.4 | 209.2 | 210.4 | 213.6 | 215.8 | 218.4 | 220.4 | 224.1 | 227.8 | 233.7 |
| 326 | Plastics and rubber products manufacturing <br> (December 1984=100) | 150.4 | 151.3 | 151.2 | 151.6 | 152.2 | 153.2 | 154.8 | 155.6 | 156.4 | 156.3 | 158.5 | 159.5 | 162.7 |
| 331 | Primary metal manufacturing (December 1984=100). | 196.4 | 192.1 | 188.8 | 188.6 | 188.9 | 188.6 | 190.4 | 194.2 | 202.4 | 210.5 | 221.6 | 228.5 | 233.2 |
| 332 | Fabricated metal product manufacturing (December 1984=100). | 162.3 | 162.9 | 162.8 | 163.3 | 163.7 | 164.3 | 165.6 | 166.8 | 168.3 | 170.6 | 172.9 | 174.7 | 177.3 |
| 333 | Machinery manufacturing.. | 112.1 | 112.3 | 112.5 | 112.7 | 113.0 | 113.1 | 113.8 | 114.3 | 114.6 | 115.2 | 115.7 | 116.5 | 117.9 |
| 334 | Computer and electronic products manufacturing. | 94.1 | 93.5 | 93.3 | 93.1 | 92.8 | 92.6 | 92.6 | 92.8 | 92.7 | 92.7 | 92.8 | 92.8 | 93.0 |
| 335 | Electrical equipment, appliance, and components manufacturing | 123.0 | 123.6 | 123.7 | 124.2 | 124.5 | 124.4 | 125.2 | 125.9 | 127.1 | 127.3 | 128.1 | 128.4 | 129.0 |
| 336 | Transportation equipment manufacturing. | 104.4 | 104.2 | 103.8 | 106.3 | 106.6 | 106.0 | 106.6 | 106.6 | 106.1 | 106.5 | 106.3 | 105.9 | 106.5 |
| 337 | Furniture and related product manufacturing <br> (December 1984=100). | 165.6 | 165.7 | 165.9 | 166.1 | 166.6 | 166.4 | 167.1 | 167.8 | 168.3 | 169.7 | 170.6 | 171.7 | 172.1 |
| 339 | Miscellaneous manufacturi | 106.9 | 107.0 | 107.1 | 107.2 | 107.5 | 107.7 | 108.5 | 108.7 | 109.2 | 109.5 | 109.7 | 110.0 | 110.4 |
|  | Retail trade |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 441 | Motor vehicle and parts dealers. | 115.6 | 114.9 | 116.0 | 115.3 | 116.1 | 118.0 | 118.3 | 118.4 | 117.9 | 119.0 | 118.5 | 118.6 | 118.1 |
| 442 | Furniture and home furnishings stores. | 116.5 | 119.6 | 119.0 | 120.1 | 121.1 | 119.0 | 119.6 | 118.8 | 120.1 | 119.2 | 118.6 | 119.8 | 120.3 |
| 443 | Electronics and appliance stores. | 111.6 | 109.8 | 107.8 | 111.1 | 114.9 | 89.3 | 109.0 | 110.2 | 113.4 | 110.9 | 109.5 | 111.3 | 110.1 |
| 446 | Health and personal care stores.. | 123.6 | 124.3 | 123.9 | 123.5 | 123.8 | 123.8 | 124.8 | 124.5 | 125.5 | 128.0 | 127.9 | 128.0 | 135.4 |
| 447 | Gasoline stations (June 2001=100). | 81.6 | 71.3 | 73.7 | 78.0 | 73.7 | 66.6 | 67.1 | 61.6 | 60.6 | 65.6 | 60.9 | 67.3 | 80.1 |
| 454 | Nonstore retailers. | 123.1 | 128.3 | 126.0 | 130.2 | 125.7 | 134.7 | 136.0 | 133.8 | 133.1 | 136.2 | 136.9 | 138.0 | 140.9 |
|  | Transportation and warehousing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 481 | Air transportation (December 1992=100). | 188.0 | 189.1 | 180.5 | 187.2 | 189.4 | 187.1 | 192.0 | 191.8 | 198.6 | 199.5 | 201.4 | 211.7 | 211.4 |
| 483 | Water transportation.. | 113.6 | 114.7 | 115.3 | 117.2 | 116.5 | 116.4 | 119.0 | 119.2 | 120.6 | 122.1 | 122.3 | 127.0 | 129.3 |
| 491 | Postal service (June 1989=100) | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 | 175.5 | 180.5 | 180.5 | 180.5 |
|  | Utilities |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 221 | Utilities. | 131.6 | 130.8 | 129.3 | 127.2 | 126.6 | 127.4 | 127.8 | 129.7 | 131.1 | 133.6 | 135.7 | 141.1 | 146.3 |
|  | Health care and social assistance |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6211 | Office of physicians (December 1996=100). | 122.2 | 122.2 | 122.9 | 122.9 | 121.5 | 122.7 | 123.3 | 123.3 | 123.3 | 122.3 | 123.2 | 123.2 | 123.2 |
| 6215 | Medical and diagnostic laboratories. | 107.0 | 107.7 | 107.6 | 107.7 | 106.7 | 106.7 | 107.3 | 107.3 | 107.3 | 107.4 | 107.4 | 106.6 | 106.9 |
| 6216 | Home health care services (December 1996=100). | 123.8 | 123.9 | 124.1 | 125.1 | 125.3 | 125.3 | 125.4 | 125.5 | 125.5 | 125.5 | 125.5 | 125.4 | 125.4 |
| 622 | Hospitals (December 1992=100). | 158.1 | 158.0 | 158.2 | 161.3 | 161.9 | 161.9 | 162.4 | 162.6 | 162.9 | 162.9 | 162.7 | 162.8 | 163.2 |
| 6231 | Nursing care facilities... | 114.9 | 115.7 | 115.8 | 116.4 | 116.5 | 117.0 | 117.9 | 118.0 | 118.3 | 118.2 | 118.1 | 118.1 | 119.1 |
| 62321 | Residential mental retardation facilities. | 112.9 | 113.2 | 113.5 | 113.9 | 114.3 | 114.6 | 115.4 | 117.2 | 117.7 | 118.0 | 117.6 | 117.6 | 117.8 |
|  | Other services industries |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 511 | Publishing industries, except Internet | 108.2 | 108.4 | 108.4 | 108.5 | 108.5 | 108.5 | 109.7 | 109.8 | 110.4 | 110.7 | 110.4 | 110.2 | 110.8 |
| 515 | Broadcasting, except Internet. | 98.7 | 98.7 | 99.6 | 101.0 | 102.3 | 103.6 | 104.4 | 104.6 | 105.2 | 102.4 | 103.4 | 102.7 | 103.3 |
| 517 | Telecommunications.. | 102.2 | 101.3 | 102.0 | 101.8 | 101.2 | 100.7 | 100.6 | 100.9 | 100.6 | 102.1 | 101.3 | 101.1 | 101.0 |
| $\begin{gathered} 5182 \\ 523 \end{gathered}$ | Data processing and related services.. | 100.4 | 100.4 | 100.4 | 100.3 | 100.5 | 100.4 | 100.4 | 100.5 | 100.5 | 100.5 | 100.9 | 100.9 | 101.0 |
|  | Security, commodity contracts, and like activity... | 120.5 | 120.4 | 121.1 | 121.4 | 124.2 | 123.0 | 122.5 | 122.9 | 121.0 | 119.2 | 120.1 | 120.7 | 118.8 |
| 53112 | Lessors or nonresidental buildings (except miniwarehouse) | 106.2 | 107.9 | 109.0 | 108.5 | 108.5 | 110.0 | 108.1 | 108.2 | 109.7 | 109.1 | 109.2 | 109.7 | 110.2 |
| 5312 | Offices of real estate agents and brokers... | 111.1 | 111.1 | 110.7 | 110.5 | 110.5 | 109.9 | 110.3 | 109.8 | 110.0 | 110.0 | 106.1 | 105.4 | 107.0 |
| 5313 | Real estate support activities.............. | 103.8 | 103.2 | 102.9 | 103.5 | 106.1 | 105.6 | 106.6 | 106.0 | 106.8 | 107.1 | 107.1 | 107.4 | 109.7 |
| 5321 | Automotive equipment rental and leasing (June 2001=100) | 121.2 | 122.3 | 117.2 | 118.9 | 118.4 | 119.1 | 121.3 | 121.3 | 125.1 | 117.8 | 123.2 | 125.2 | 132.6 |
| 5411 | Legal services (December 1996=100). | 153.7 | 153.8 | 154.3 | 154.8 | 155.1 | 155.1 | 159.9 | 160.3 | 160.7 | 160.8 | 160.9 | 160.9 | 161.5 |
| 541211 | Offices of certified public accountants.. | 112.2 | 112.6 | 112.4 | 113.1 | 112.9 | 113.0 | 115.6 | 114.1 | 113.8 | 111.9 | 114.2 | 112.4 | 115.8 |
| 5413 | Architectural, engineering, and related services <br> (December 1996=100). |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 54181 | Advertising agencies.. | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.1 | 105.2 | 105.3 | 105.3 | 106.0 | 105.8 | 105.7 | 105.7 |
| 5613 | Employment services (December 1996=100). | 121.8 | 121.9 | 122.0 | 122.4 | 122.3 | 122.2 | 122.3 | 123.0 | 123.0 | 122.3 | 122.7 | 122.9 | 123.1 |
| 56151 | Travel agencies... | 101.1 | 101.0 | 100.9 | 102.5 | 101.7 | 100.2 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 | 98.8 |
| 56172 | Janitorial services. | 105.5 | 105.5 | 106.8 | 106.9 | 107.1 | 108.7 | 108.9 | 109.1 | 108.9 | 109.0 | 109.7 | 109.2 | 109.1 |
| 5621 | Waste collection.. | 107.3 | 107.9 | 108.9 | 108.9 | 109.5 | 108.4 | 110.7 | 112.1 | 112.0 | 112.3 | 112.0 | 112.8 | 112.1 |
| 721 | Accommodation (December 1996=100)... | 147.1 | 147.2 | 145.0 | 145.8 | 144.7 | 143.7 | 145.4 | 145.2 | 145.3 | 146.0 | 144.8 | 149.6 | 152.8 |

43. Annual data: Producer Price Indexes, by stage of processing
[1982 = 100]

| Index | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Finished goods |  |  |  |  |  |  |  |  |  |  |  |
| Total. | 131.8 | 130.7 | 133.0 | 138.0 | 140.7 | 138.9 | 143.3 | 148.5 | 155.7 | 160.4 | 166.6 |
| Foods. | 134.5 | 134.3 | 135.1 | 137.2 | 141.3 | 140.1 | 145.9 | 152.7 | 155.7 | 156.7 | 166.9 |
| Energy... | 83.4 | 75.1 | 78.8 | 94.1 | 96.8 | 88.8 | 102.0 | 113.0 | 132.6 | 145.9 | 156.4 |
| Other. | 142.4 | 143.7 | 146.1 | 148.0 | 150.0 | 150.2 | 150.5 | 152.7 | 156.4 | 158.7 | 161.7 |
| Intermediate materials, supplies, and components |  |  |  |  |  |  |  |  |  |  |  |
| Total... | 125.6 | 123.0 | 123.2 | 129.2 | 129.7 | 127.8 | 133.7 | 142.6 | 154.0 | 164.0 | 170.6 |
| Foods.. | 123.2 | 123.2 | 120.8 | 119.2 | 124.3 | 123.2 | 134.4 | 145.0 | 146.0 | 146.2 | 161.5 |
| Energy.. | 89.0 | 80.8 | 84.3 | 101.7 | 104.1 | 95.9 | 111.9 | 123.2 | 149.2 | 162.8 | 174.6 |
| Other. | 134.2 | 133.5 | 133.1 | 136.6 | 136.4 | 135.8 | 138.5 | 146.5 | 154.6 | 163.8 | 168.4 |
| Crude materials for further processing |  |  |  |  |  |  |  |  |  |  |  |
| Total.. | 111.1 | 96.8 | 98.2 | 120.6 | 121.0 | 108.1 | 135.3 | 159.0 | 182.2 | 184.8 | 207.3 |
| Foods.. | 112.2 | 103.9 | 98.7 | 100.2 | 106.1 | 99.5 | 113.5 | 127.0 | 122.7 | 119.3 | 146.7 |
| Energy... | 87.3 | 68.6 | 78.5 | 122.1 | 122.3 | 102.0 | 147.2 | 174.6 | 234.0 | 226.9 | 233.0 |
| Other........................ | 103.5 | 84.5 | 91.1 | 118.0 | 101.5 | 101.0 | 116.9 | 149.2 | 176.7 | 210.0 | 238.8 |

44. U.S. export price indexes by end-use category
[2000 = 100]

| Category | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| ALL COMMODITIES. | 116.1 | 116.3 | 116.7 | 117.6 | 118.7 | 119.3 | 120.7 | 121.8 | 123.8 | 124.4 | 124.8 | 126.1 | 127.9 |
| Foods, feeds, and beverages. | 149.2 | 151.4 | 157.8 | 164.1 | 165.9 | 171.1 | 180.5 | 188.7 | 196.9 | 192.8 | 193.3 | 198.2 | 211.7 |
| Agricultural foods, feeds, and beverages. | 151.5 | 153.7 | 160.8 | 167.6 | 169.8 | 175.2 | 185.0 | 193.8 | 202.6 | 198.2 | 198.8 | 204.2 | 219.2 |
| Nonagricultural (fish, beverages) food products | 130.2 | 132.2 | 133.0 | 134.2 | 133.1 | 136.1 | 142.0 | 144.7 | 148.3 | 146.4 | 145.2 | 145.8 | 146.5 |
| Industrial supplies and materials. | 148.6 | 148.8 | 148.8 | 150.5 | 153.9 | 154.1 | 157.1 | 159.1 | 165.5 | 167.9 | 169.6 | 173.3 | 177.8 |
| Agricultural industrial supplies and materials.. | 138.6 | 137.4 | 140.0 | 142.7 | 144.9 | 144.7 | 146.0 | 150.6 | 159.3 | 157.9 | 156.9 | 158.0 | 162.7 |
| Fuels and lubricants | 202.9 | 197.4 | 200.9 | 204.8 | 224.7 | 222.8 | 232.1 | 225.6 | 249.5 | 259.3 | 275.8 | 297.6 | 312.2 |
| Nonagricultural supplies and materials, excluding fuel and building materials.. | 144.6 | 145.7 | 145.0 | 146.5 | 147.9 | 148.5 | 150.9 | 154.1 | 158.2 | 160.1 | 160.1 | 161.6 | 165.1 |
| Selected building materials.. | 114.1 | 114.0 | 114.4 | 114.2 | 113.8 | 113.7 | 113.3 | 113.8 | 114.2 | 114.1 | 113.9 | 113.7 | 113.9 |
| Capital goods.. | 99.7 | 99.8 | 99.9 | 100.1 | 100.3 | 100.6 | 100.9 | 101.3 | 101.2 | 101.5 | 101.6 | 101.9 | 101.7 |
| Electric and electrical generating equipmen | 106.6 | 106.7 | 106.7 | 107.1 | 107.2 | 107.5 | 107.7 | 108.3 | 108.6 | 108.7 | 108.6 | 108.6 | 108.6 |
| Nonelectrical machinery.. | 93.1 | 93.1 | 93.1 | 93.2 | 93.4 | 93.6 | 93.7 | 93.9 | 93.7 | 93.9 | 93.8 | 94.1 | 93.9 |
| Automotive vehicles, parts, and engines... | 106.2 | 106.2 | 106.3 | 106.5 | 106.5 | 106.7 | 106.9 | 107.0 | 107.1 | 107.5 | 107.5 | 107.5 | 107.6 |
| Consumer goods, excluding automotive. | 106.1 | 106.3 | 106.2 | 106.4 | 106.8 | 107.3 | 107.3 | 107.4 | 108.0 | 108.1 | 108.1 | 108.2 | 108.6 |
| Nondurables, manufactured. | 107.0 | 107.2 | 107.0 | 107.4 | 108.0 | 108.2 | 108.1 | 108.2 | 109.3 | 109.8 | 110.0 | 110.1 | 110.0 |
| Durables, manufactured. | 104.0 | 104.2 | 104.2 | 104.2 | 104.4 | 105.2 | 105.2 | 105.5 | 105.4 | 105.1 | 105.1 | 105.2 | 106.2 |
| Agricultural commodities.. | 149.0 | 150.5 | 156.8 | 162.8 | 165.0 | 169.3 | 177.5 | 185.6 | 194.3 | 190.5 | 190.8 | 195.4 | 208.4 |
| Nonagricultural commodities. | 113.7 | 113.8 | 113.8 | 114.4 | 115.4 | 115.7 | 116.6 | 117.3 | 118.8 | 119.6 | 120.1 | 121.2 | 122.2 |

45. U.S. import price indexes by end-use category
[2000 = 100]

| Category | 2007 |  |  |  |  |  | 2008 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | July | Aug. | Sept. | Oct. | Nov. | Dec. | Jan. | Feb. | Mar. | Apr. | May | June | July |
| ALL COMMODITIES. | 121.5 | 121.1 | 121.8 | 123.6 | 127.5 | 127.3 | 129.2 | 129.5 | 133.5 | 137.3 | 141.2 | 145.3 | 147.8 |
| Foods, feeds, and beverages.. | 129.4 | 130.1 | 131.8 | 133.2 | 133.4 | 134.4 | 138.1 | 137.8 | 141.8 | 143.7 | 145.0 | 147.5 | 149.7 |
| Agricultural foods, feeds, and beverages. | 141.4 | 142.1 | 144.4 | 146.5 | 147.1 | 148.3 | 153.1 | 152.6 | 157.3 | 159.8 | 162.3 | 165.0 | $\begin{aligned} & 167.5 \\ & 109.2 \end{aligned}$ |
| Nonagricultural (fish, beverages) food product | 102.7 | 103.2 | 103.5 | 103.2 | 102.5 | 103.0 | 104.3 | 104.4 | 106.8 | 107.2 | 105.8 | 107.9 |  |
| Industrial supplies and materials | 190.9 | 188.5 | 190.7 | 197.2 | 212.8 | 211.3 | 218.2 | 219.0 | 234.5 | 248.7 | 264.7 | 282.2 | 291.5 |
| Fuels and lubricants. | 249.8 | 244.0 | 250.0 | 262.4 | 294.8 | 290.3 | 301.9 | 300.0 | 329.0 | 354.6 | 387.6 | 421.5 | 438.5 |
| Petroleum and petroleum products | 260.3 | 256.4 | 264.4 | 277.7 | 312.2 | 306.7 | 319.6 | 315.6 | 347.5 | 375.8 | 411.8 | 448.4 | 466.4 |
| Paper and paper base stocks. | 110.3 | 110.7 | 111.2 | 112.2 | 108.0 | 109.2 | 112.5 | 113.4 | 114.1 | 116.2 | 117.1 | 117.9 | 120.0 |
| Materials associated with nondurable supplies and materials. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Selected building materials... | $\begin{aligned} & 126.6 \\ & 116.9 \end{aligned}$ | 116.5 | 116.9 | 115.7 | 115.6 | 116.0 | $\begin{aligned} & 143.6 \\ & 115.9 \end{aligned}$ | $\begin{aligned} & 146.6 \\ & 113.8 \end{aligned}$ | $\begin{aligned} & 147.8 \\ & 114.1 \end{aligned}$ | $\begin{aligned} & 148.7 \\ & 114.3 \end{aligned}$ | $\begin{aligned} & 149.6 \\ & 116.2 \end{aligned}$ | $\begin{aligned} & 152.6 \\ & 119.2 \end{aligned}$ | $\begin{aligned} & 156.3 \\ & 121.8 \end{aligned}$ |
| Unfinished metals associated with durable goods.. | 215.1 | 215.3 | 209.1 | 211.0 | 214.8 | 217.2 | 215.3 | 224.5 | 241.5 | 259.2 | 263.7 | 275.0 | 277.8 |
| Nonmetals associated with durable goods. | 102.1 | 102.2 | 102.5 | 103.0 | 103.3 | 103.8 | 105.4 | 105.9 | 105.2 | 106.2 | 107.5 | 107.9 | 111.7 |
| Capital goods. | 91.6 | 91.8 | 91.9 | 92.0 | 92.1 | 92.2107.9 | $\begin{array}{r} 91.9 \\ 107.7 \end{array}$ | $\begin{array}{r} 92.0 \\ 108.7 \end{array}$ | $\begin{array}{r} 92.2 \\ 109.3 \end{array}$ | $\begin{array}{r} 93.0 \\ 111.5 \end{array}$ | $\begin{array}{r} 93.3 \\ 111.7 \end{array}$ | 93.2 | 93.5113.0 |
| Electric and electrical generating equipmen | $\begin{array}{r} 105.8 \\ 87.4 \end{array}$ | 106.4 | 106.587.7 | 106.8 | 107.5 |  |  |  |  |  |  | 112.0 |  |
| Nonelectrical machinery. |  | 87.6 |  | 87.7 | 87.7 | 87.7 | 87.4 | 87.4 | 87.5 | 88.0 | 88.4 | 88.2 | 88.4 |
| Automotive vehicles, parts, and engines | 104.8 | 105.0 | 105.2 | 105.6 | 106.2 | 106.8 | 107.1 | 107.2 | 107.4 | 107.8 | 107.8 | 107.9 | 108.0 |
| Consumer goods, excluding automotive. | 101.7 | 102.0 | 102.1 | 102.2 | 102.4 | 102.6 | 103.1 | 103.5 | 104.0 | 104.6 | 104.8 | 104.9 | 105.2 |
| Nondurables, manufactured. | $\begin{array}{r} 104.8 \\ 98.3 \\ 103.1 \end{array}$ | $\begin{array}{r} 104.9 \\ 98.8 \\ 103.4 \end{array}$ | $\begin{array}{r} 105.0 \\ 98.8 \\ 103.4 \end{array}$ | $\begin{array}{r} 105.1 \\ 99.0 \\ 103.3 \\ \hline \end{array}$ | $\begin{array}{r} 105.3 \\ 99.2 \\ 103.3 \end{array}$ | $\begin{array}{r} 105.5 \\ 99.3 \\ 103.8 \\ \hline \end{array}$ | $\begin{array}{r} 106.5 \\ 99.6 \\ 104.0 \end{array}$ | $\begin{aligned} & 106.8 \\ & 100.0 \\ & 104.1 \end{aligned}$ | $\begin{aligned} & 107.5 \\ & 100.4 \\ & 104.3 \end{aligned}$ | $\begin{aligned} & 107.9 \\ & 101.1 \\ & 105.6 \end{aligned}$ | $\begin{aligned} & 108.0 \\ & 101.3 \\ & 105.8 \end{aligned}$ | $\begin{aligned} & 108.0 \\ & 101.6 \\ & 106.6 \end{aligned}$ | $\begin{aligned} & 108.3 \\ & 101.8 \\ & 106.9 \\ & \hline \end{aligned}$ |
| Durables, manufactured... |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nonmanufactured consumer goods.. |  |  |  |  |  |  |  |  |  |  |  |  |  |

46. U.S. international price Indexes for selected categories of services
[2000 $=100$, unless indicated otherwise]

| Category | 2006 |  |  |  | 2007 |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

47. Indexes of productivity, hourly compensation, and unit costs, quarterly data seasonally adjusted [1992 = 100]

| Item | 2005 |  |  | 2006 |  |  |  | 2007 |  |  |  | 2008 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | II | III | IV | I | II | III | IV | I | II | III | IV | I | II |
| Business |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons.................................... | 134.2 | 135.6 | 135.2 | 136.1 | 136.6 | 135.9 | 135.9 | 135.9 | 137.6 | 139.7 | 139.7 | 140.5 | 141.3 |
| Compensation per hour. | 161.6 | 164.1 | 165.8 | 168.0 | 168.1 | 168.9 | 172.6 | 174.7 | 175.5 | 177.1 | 179.0 | 181.2 | 182.9 |
| Real compensation per hour | 119.5 | 119.6 | 119.6 | 120.6 | 119.6 | 119.1 | 122.1 | 122.4 | 121.7 | 121.9 | 121.7 | 121.9 | 121.6 |
| Unit labor costs.. | 120.4 | 121.1 | 122.6 | 123.5 | 123.1 | 124.3 | 127.0 | 128.5 | 127.5 | 126.8 | 128.1 | 128.9 | 129.4 |
| Unit nonlabor payments. | 129.5 | 131.6 | 132.4 | 133.4 | 136.2 | 136.2 | 133.4 | 134.3 | 137.4 | 139.7 | 139.2 | 139.5 | 139.2 |
| Implicit price deflator.. | 123.8 | 125.0 | 126.3 | 127.2 | 128.0 | 128.8 | 129.4 | 130.7 | 131.2 | 131.6 | 132.2 | 132.9 | 133.1 |
| Nonfarm business |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons. | 133.4 | 134.6 | 134.2 | 135.1 | 135.7 | 134.9 | 135.0 | 135.0 | 136.4 | 138.3 | 138.6 | 139.5 | 140.3 |
| Compensation per hour........ | 160.8 | 163.2 | 164.7 | 166.8 | 167.1 | 167.9 | 171.7 | 173.7 | 174.1 | 175.5 | 177.8 | 180.1 | 181.7 |
| Real compensation per hour | 118.9 | 118.9 | 118.8 | 119.7 | 118.9 | 118.3 | 121.4 | 121.8 | 120.7 | 120.9 | 121.0 | 121.2 | 120.8 |
| Unit labor costs.. | 120.5 | 121.2 | 122.7 | 123.5 | 123.1 | 124.4 | 127.1 | 128.7 | 127.7 | 126.9 | 128.3 | 129.1 | 129.5 |
| Unit nonlabor payments...................................... | 130.8 | 133.2 | 134.2 | 135.5 | 138.6 | 138.3 | 134.9 | 135.2 | 138.2 | 140.3 | 139.8 | 140.3 | 140.0 |
| Implicit price deflator......................................... | 124.3 | 125.6 | 126.9 | 127.9 | 128.8 | 129.5 | 130.0 | 131.1 | 131.5 | 131.8 | 132.5 | 133.2 | 133.4 |
| Nonfinancial corporations |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all employees. | 143.7 | 142.8 | 144.8 | 146.3 | 146.0 | 147.0 | 146.0 | 146.2 | 147.4 | 148.1 | 148.8 | 149.2 | - |
| Compensation per hour. | 158.6 | 160.8 | 161.2 | 164.5 | 164.5 | 165.1 | 167.8 | 170.3 | 171.3 | 172.5 | 175.0 | 177.1 | - |
| Real compensation per hou | 117.3 | 117.2 | 116.3 | 118.1 | 117.0 | 116.3 | 118.7 | 119.4 | 118.7 | 118.7 | 119.0 | 119.2 | - |
| Total unit costs......... | 110.6 | 113.5 | 111.8 | 112.5 | 113.1 | 112.8 | 115.3 | 116.7 | 116.5 | 116.8 | 117.9 | 118.7 | - |
| Unit labor costs. | 110.4 | 112.6 | 111.4 | 112.4 | 112.6 | 112.3 | 114.9 | 116.5 | 116.2 | 116.5 | 117.6 | 118.7 | - |
| Unit nonlabor costs. | 111.4 | 115.7 | 113.1 | 112.9 | 114.4 | 114.2 | 116.2 | 117.2 | 117.4 | 117.8 | 118.9 | 118.7 | - |
| Unit profits............................................................. | 166.8 | 152.2 | 177.4 | 182.5 | 183.1 | 193.0 | 173.9 | 171.8 | 172.5 | 166.8 | 155.9 | 149.8 | - |
| Unit nonlabor payments..................................... | 126.2 | 125.5 | 130.3 | 131.5 | 132.8 | 135.3 | 131.6 | 131.8 | 132.2 | 130.9 | 128.8 | 127.0 | - |
| Implicit price deflator......................................... | 115.7 | 116.9 | 117.7 | 118.8 | 119.4 | 120.0 | 120.5 | 121.6 | 121.5 | 121.3 | 121.3 | 121.5 | - |
| Manufacturing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons. | 172.0 | 172.9 | 172.8 | 172.6 | 172.7 | 174.5 | 175.4 | 177.0 | 178.7 | 180.6 | 182.5 | 184.0 | 183.3 |
| Compensation per hour... | 164.2 | 166.5 | 165.3 | 170.9 | 169.5 | 170.3 | 174.6 | 176.9 | 176.4 | 176.4 | 179.7 | 182.4 | 184.5 |
| Real compensation per hour............................... | 121.4 | 121.3 | 119.2 | 122.7 | 120.7 | 120.0 | 123.5 | 124.0 | 122.3 | 121.4 | 122.2 | 122.8 | 122.7 |
| Unit labor costs................................................. | 95.5 | 96.3 | 95.6 | 99.0 | 98.2 | 97.6 | 99.5 | 100.0 | 98.7 | 97.6 | 98.5 | 99.1 | 100.6 |

NOTE: Dash indicates data not available.
48. Annual indexes of multifactor productivity and related measures, selected years
[2000 $=100$, unless otherwise indicated]

| Item | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Private business |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Productivity: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons.. | 87.4 | 90.0 | 91.7 | 94.3 | 97.2 | 100.0 | 102.8 | 107.1 | 111.2 | 114.5 | 116.8 | 118.0 | 120.2 |
| Output per unit of capital services. | 104.6 | 104.7 | 104.9 | 103.5 | 102.3 | 100.0 | 96.0 | 94.8 | 95.6 | 97.5 | 98.6 | 99.1 | 98.1 |
| Multifactor productivity.. | 93.7 | 95.3 | 96.2 | 97.5 | 98.7 | 100.0 | 100.1 | 101.8 | 104.4 | 107.0 | 108.8 | 109.4 | 110.1 |
| Output. | 79.2 | 82.8 | 87.2 | 91.5 | 96.2 | 100.0 | 100.5 | 102.0 | 105.2 | 109.7 | 113.8 | 117.4 | 120.1 |
| Inputs: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Labor input. | 88.8 | 90.7 | 94.2 | 96.4 | 99.0 | 100.0 | 98.6 | 97.2 | 97.0 | 98.4 | 100.2 | 102.8 | 103.8 |
| Capital services.. | 75.7 | 79.1 | 83.2 | 88.4 | 94.1 | 100.0 | 104.6 | 107.6 | 110.0 | 112.5 | 115.4 | 118.5 | 122.3 |
| Combined units of labor and capital input. | 84.4 | 86.9 | 90.6 | 93.9 | 97.5 | 100.0 | 100.3 | 100.2 | 100.7 | 102.5 | 104.6 | 107.4 | 109.2 |
| Capital per hour of all persons................. | 83.6 | 85.9 | 87.4 | 91.1 | 95.0 | 100.0 | 107.0 | 112.9 | 116.3 | 117.4 | 118.4 | 119.1 | 122.3 |
| Private nonfarm business |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Productivity: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons. | 88.2 | 90.5 | 92.0 | 94.5 | 97.3 | 100.0 | 102.7 | 107.1 | 111.0 | 114.2 | 116.4 | 117.6 | 119.7 |
| Output per unit of capital services. | 105.6 | 105.5 | 105.3 | 103.9 | 102.5 | 100.0 | 96.0 | 94.7 | 95.4 | 97.3 | 98.3 | 98.7 | 97.9 |
| Multifactor productivity. | 94.5 | 95.9 | 96.5 | 97.8 | 98.8 | 100.0 | 100.1 | 101.8 | 104.3 | 106.8 | 108.6 | 109.0 | 109.7 |
| Output.. | 79.3 | 82.8 | 87.2 | 91.5 | 96.3 | 100.0 | 100.5 | 102.1 | 105.2 | 109.6 | 113.7 | 117.4 | 120.1 |
| Inputs: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Labor input. | 88.2 | 90.2 | 93.9 | 96.2 | 99.0 | 100.0 | 98.7 | 97.2 | 97.1 | 98.6 | 100.4 | 103.1 | 104.1 |
| Capital services.. | 75.0 | 78.5 | 82.7 | 88.1 | 93.9 | 100.0 | 104.7 | 107.8 | 110.3 | 112.7 | 115.6 | 118.9 | 122.8 |
| Combined units of labor and capital input. | 83.9 | 86.4 | 90.3 | 93.6 | 97.4 | 100.0 | 100.5 | 100.2 | 100.8 | 102.6 | 104.7 | 107.6 | 109.4 |
| Capital per hour of all persons.. | 83.5 | 85.8 | 87.3 | 91.0 | 94.9 | 100.0 | 107.0 | 113.1 | 116.4 | 117.4 | 118.4 | 119.1 | 122.4 |
| Manufacturing [1996 = 100] |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Productivity: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons... | 79.8 | 82.7 | 87.3 | 92.0 | 96.1 | 100.0 | 101.6 | 108.6 | 115.3 | 117.9 | 123.5 | 125.0 | - |
| Output per unit of capital services. | 98.7 | 98.0 | 100.6 | 100.7 | 100.4 | 100.0 | 93.5 | 92.3 | 93.2 | 95.4 | 98.9 | 100.2 | - |
| Multifactor productivity..................................... | 90.8 | 91.2 | 93.8 | 95.9 | 96.7 | 100.0 | 98.7 | 102.4 | 105.2 | 108.0 | 108.4 | 110.1 | - |
| Output. | 80.3 | 83.1 | 89.2 | 93.8 | 97.4 | 100.0 | 94.9 | 94.3 | 95.2 | 96.9 | 100.4 | 102.3 | - |
| Inputs: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hours of all persons... | 100.6 | 100.4 | 102.2 | 101.9 | 101.3 | 100.0 | 93.5 | 86.8 | 82.6 | 82.2 | 81.3 | 81.8 | - |
| Capital services.. | 81.4 | 84.8 | 88.7 | 93.2 | 97.0 | 100.0 | 101.5 | 102.1 | 102.1 | 101.6 | 101.5 | 102.0 | - |
| Energy.......... | 113.7 | 110.4 | 108.2 | 105.4 | 105.5 | 100.0 | 90.6 | 89.3 | 84.4 | 84.0 | 91.6 | 86.6 | - |
| Nonenergy materials............ | 78.9 | 86.0 | 92.9 | 97.7 | 102.6 | 100.0 | 93.3 | 88.4 | 87.7 | 87.3 | 92.4 | 91.5 | - |
| Purchased business services.... | 88.8 | 88.5 | 92.1 | 95.0 | 100.0 | 100.0 | 100.7 | 98.2 | 99.1 | 97.0 | 104.5 | 106.6 | - |
| Combined units of all factor inputs........................ | 88.5 | 91.1 | 95.1 | 97.8 | 100.7 | 100.0 | 96.2 | 92.1 | 90.5 | 89.7 | 92.7 | 92.9 | - |

NOTE: Dash indicates data not available.
49. Annual indexes of productivity, hourly compensation, unit costs, and prices, selected years
[1992 = 100]

| Item | 1962 | 1972 | 1982 | 1992 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Business |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons. | 52.9 | 71.2 | 80.1 | 100.0 | 112.8 | 116.1 | 119.1 | 123.9 | 128.7 | 132.4 | 135.0 | 136.4 | 139.0 |
| Compensation per hour. | 15.1 | 26.7 | 63.6 | 100.0 | 125.8 | 134.7 | 140.3 | 145.3 | 151.2 | 156.9 | 163.2 | 169.6 | 178.3 |
| Real compensation per hour | 65.2 | 83.3 | 90.6 | 100.0 | 108.1 | 112.0 | 113.5 | 115.7 | 117.7 | 119.0 | 119.7 | 120.5 | 123.2 |
| Unit labor costs. | 28.5 | 37.4 | 79.4 | 100.0 | 111.5 | 116.0 | 117.9 | 117.3 | 117.5 | 118.5 | 120.9 | 124.4 | 128.3 |
| Unit nonlabor payments | 26.1 | 35.7 | 70.1 | 100.0 | 109.4 | 107.2 | 110.0 | 114.2 | 118.3 | 124.7 | 130.8 | 134.6 | 135.4 |
| Implicit price deflator..... | 27.6 | 36.8 | 75.9 | 100.0 | 110.7 | 112.7 | 114.9 | 116.1 | 117.8 | 120.8 | 124.5 | 128.2 | 131.0 |
| Nonfarm business |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons. | 55.9 | 73.1 | 80.8 | 100.0 | 112.5 | 115.7 | 118.6 | 123.5 | 128.0 | 131.6 | 134.1 | 135.4 | 137.9 |
| Compensation per hour. | 15.6 | 26.9 | 63.9 | 100.0 | 125.2 | 134.2 | 139.5 | 144.6 | 150.4 | 155.9 | 162.1 | 168.5 | 177.1 |
| Real compensation per hou | 67.3 | 84.0 | 91.1 | 100.0 | 107.6 | 111.6 | 112.8 | 115.1 | 117.1 | 118.2 | 118.9 | 119.7 | 122.3 |
| Unit labor costs. | 27.8 | 36.8 | 79.1 | 100.0 | 111.3 | 116.0 | 117.7 | 117.1 | 117.5 | 118.5 | 120.9 | 124.5 | 128.4 |
| Unit nonlabor payments. | 25.8 | 34.9 | 69.3 | 100.0 | 110.9 | 108.7 | 111.6 | 116.0 | 119.6 | 125.5 | 132.4 | 136.4 | 136.2 |
| Implicit price deflator.. | 27.1 | 36.1 | 75.5 | 100.0 | 111.1 | 113.3 | 115.4 | 116.7 | 118.3 | 121.1 | 125.1 | 128.9 | 131.3 |
| Nonfinancial corporations |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all employees. | 60.4 | 74.2 | 83.1 | 100.0 | 117.9 | 122.5 | 124.7 | 129.7 | 134.6 | 139.6 | 141.6 | 142.6 | 144.8 |
| Compensation per hour.. | 17.4 | 28.8 | 66.5 | 100.0 | 124.2 | 133.0 | 138.6 | 143.6 | 149.5 | 153.9 | 159.8 | 165.4 | 173.4 |
| Real compensation per h | 75.1 | 90.0 | 94.7 | 100.0 | 106.7 | 110.6 | 112.1 | 114.3 | 116.4 | 116.7 | 117.2 | 117.5 | 119.8 |
| Total unit costs.. | 27.3 | 37.5 | 80.4 | 100.0 | 104.0 | 107.4 | 111.6 | 110.7 | 111.0 | 110.0 | 112.7 | 115.4 | 118.5 |
| Unit labor costs. | 28.7 | 38.8 | 80.0 | 100.0 | 105.3 | 108.6 | 111.2 | 110.7 | 111.0 | 110.3 | 112.9 | 116.0 | 119.8 |
| Unit nonlabor costs. | 23.4 | 33.9 | 81.3 | 100.0 | 100.4 | 104.2 | 112.6 | 110.8 | 111.1 | 109.3 | 112.2 | 113.8 | 114.9 |
| Unit profits.. | 54.5 | 54.1 | 75.2 | 100.0 | 129.1 | 108.7 | 82.2 | 98.0 | 109.9 | 144.8 | 154.4 | 162.9 | 153.5 |
| Unit nonlabor payments. | 31.7 | 39.3 | 79.7 | 100.0 | 108.0 | 105.4 | 104.5 | 107.4 | 110.7 | 118.8 | 123.5 | 126.9 | 125.2 |
| Implicit price deflator.. | 29.7 | 39.0 | 79.9 | 100.0 | 106.2 | 107.5 | 108.9 | 109.6 | 110.9 | 113.1 | 116.4 | 119.7 | 121.6 |
| Manufacturing |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Output per hour of all persons. | - | - | - | 100.0 | 133.7 | 139.1 | 141.2 | 151.0 | 160.4 | 163.9 | 171.9 | 173.8 | 179.7 |
| Compensation per hour.. | - | - | - | 100.0 | 123.5 | 134.7 | 137.8 | 147.8 | 158.2 | 161.5 | 168.3 | 173.0 | 182.6 |
| Real compensation per hour. | - | - | - | 100.0 | 106.1 | 112.0 | 111.5 | 117.7 | 123.2 | 122.4 | 123.5 | 122.8 | 126.1 |
| Unit labor costs. | - | - | - | 100.0 | 92.4 | 96.9 | 97.6 | 97.9 | 98.7 | 98.5 | 97.9 | 99.5 | 101.6 |
| Unit nonlabor payments.. | - | - | - | 100.0 | 102.9 | 103.5 | 102.0 | 100.3 | 102.9 | 110.2 | 121.1 | 126.2 | - |
| Implicit price deflator... | - | - | - | 100.0 | 99.5 | 101.4 | 100.6 | 99.5 | 101.5 | 106.4 | 113.5 | 117.4 | - |

Dash indicates data not available.
50. Annual indexes of output per hour for selected NAICS industries

| NAICS | Industry | 1987 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mining |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 | Mining. | 85.5 | 100.0 | 103.6 | 111.4 | 111.0 | 109.1 | 113.6 | 116.0 | 106.8 | 96.0 | 87.2 |  |
| 211 | Oil and gas extraction. | 80.1 | 100.0 | 101.2 | 107.9 | 119.4 | 121.6 | 123.8 | 130.1 | 111.7 | 107.8 | 100.3 |  |
| 2111 | Oil and gas extraction. | 80.1 | 100.0 | 101.2 | 107.9 | 119.4 | 121.6 | 123.8 | 130.1 | 111.7 | 107.8 | 100.3 |  |
| 212 | Mining, except oil and gas. | 69.8 | 100.0 | 104.5 | 105.8 | 106.3 | 109.0 | 110.9 | 113.6 | 115.9 | 114.0 | 110.6 |  |
| 2121 | Coal mining. | 58.5 | 100.0 | 106.5 | 110.3 | 115.8 | 114.6 | 112.4 | 113.2 | 112.8 | 107.6 | 100.0 |  |
| 2122 | Metal ore mining. | 71.2 | 100.0 | 109.3 | 112.3 | 122.0 | 131.9 | 138.6 | 142.8 | 137.4 | 130.0 | 123.4 |  |
| 2123 | Nonmetallic mineral mining and quarrying. | 88.5 | 100.0 | 101.3 | 101.2 | 96.2 | 99.3 | 103.6 | 108.1 | 114.2 | 118.2 | 118.7 |  |
|  | Utilities |  |  |  |  |  |  |  |  |  |  |  |  |
| 2211 | Power generation and supply. | 65.6 | 100.0 | 103.7 | 103.5 | 107.0 | 106.4 | 102.9 | 105.1 | 107.5 | 114.3 | 115.4 |  |
| 2212 | Natural gas distribution. | 67.8 | 100.0 | 99.0 | 102.7 | 113.2 | 110.1 | 115.4 | 114.1 | 118.3 | 122.2 | 119.0 |  |
|  | Manufacturing |  |  |  |  |  |  |  |  |  |  |  |  |
| 311 | Food. | 94.1 | 100.0 | 103.9 | 105.9 | 107.1 | 109.5 | 113.8 | 116.8 | 117.3 | 123.3 | 121.1 |  |
| 3111 | Animal food. | 83.6 | 100.0 | 109.0 | 110.9 | 109.7 | 131.4 | 142.7 | 165.8 | 149.5 | 165.5 | 150.4 |  |
| 3112 | Grain and oilseed milling. | 81.1 | 100.0 | 107.5 | 116.1 | 113.1 | 119.5 | 122.4 | 123.9 | 130.3 | 133.0 | 130.7 |  |
| 3113 | Sugar and confectionery products. | 87.6 | 100.0 | 103.5 | 106.5 | 109.9 | 108.6 | 108.0 | 112.5 | 118.2 | 130.7 | 129.2 |  |
| 3114 | Fruit and vegetable preserving and specialty. | 92.4 | 100.0 | 107.1 | 109.5 | 111.8 | 121.4 | 126.9 | 123.0 | 126.2 | 132.0 | 126.9 |  |
| 3115 | Dairy products. | 82.7 | 100.0 | 100.0 | 93.6 | 95.9 | 97.1 | 105.0 | 110.5 | 107.4 | 109.6 | 110.2 |  |
| 3116 | Animal slaughtering and processing. | 97.4 | 100.0 | 100.0 | 101.2 | 102.6 | 103.7 | 107.3 | 106.6 | 108.0 | 117.4 | 116.9 |  |
| 3117 | Seafood product preparation and packaging | 123.1 | 100.0 | 120.2 | 131.6 | 140.5 | 153.0 | 169.8 | 173.2 | 162.2 | 186.1 | 203.8 |  |
| 3118 | Bakeries and tortilla manufacturing. | 100.9 | 100.0 | 103.8 | 108.6 | 108.3 | 109.9 | 108.9 | 109.3 | 113.8 | 115.4 | 110.5 |  |
| 3119 | Other food products.. | 97.5 | 100.0 | 107.8 | 111.4 | 112.6 | 106.2 | 111.9 | 118.8 | 119.3 | 116.2 | 116.3 |  |
| 312 | Beverages and tobacco products | 78.1 | 100.0 | 97.6 | 87.3 | 88.3 | 89.5 | 82.6 | 90.9 | 94.7 | 100.5 | 94.0 |  |
| 3121 | Beverages. | 77.1 | 100.0 | 99.0 | 90.7 | 90.8 | 92.7 | 99.4 | 108.3 | 114.1 | 120.3 | 112.0 |  |
| 3122 | Tobacco and tobacco products. | 71.9 | 100.0 | 98.5 | 91.0 | 95.9 | 98.2 | 67.0 | 78.7 | 82.4 | 93.1 | 94.9 |  |
| 313 | Textile mills. | 73.7 | 100.0 | 102.6 | 106.2 | 106.7 | 109.5 | 125.3 | 136.1 | 138.6 | 152.8 | 150.5 |  |
| 3131 | Fiber, yarn, and thread mills. | 66.5 | 100.0 | 102.1 | 103.9 | 101.3 | 109.1 | 133.3 | 148.8 | 154.1 | 143.5 | 139.7 |  |
| 3132 | Fabric mills. | 68.0 | 100.0 | 104.2 | 110.0 | 110.1 | 110.3 | 125.4 | 137.3 | 138.6 | 164.2 | 170.5 |  |
| 3133 | Textile and fabric finishing mills | 91.3 | 100.0 | 101.2 | 102.2 | 104.4 | 108.5 | 119.8 | 125.1 | 127.7 | 139.8 | 126.2 |  |
| 314 | Textile product mills. | 93.0 | 100.0 | 98.7 | 102.5 | 107.1 | 104.5 | 107.3 | 112.7 | 123.4 | 128.0 | 121.1 |  |
| 3141 | Textile furnishings mills. | 91.2 | 100.0 | 99.3 | 99.1 | 104.5 | 103.1 | 105.5 | 114.4 | 122.3 | 125.7 | 117.3 |  |
| 3149 | Other textile product mills. | 92.2 | 100.0 | 96.7 | 107.6 | 108.9 | 103.1 | 105.1 | 104.2 | 120.4 | 128.9 | 126.1 |  |
| 315 | Apparel. | 71.9 | 100.0 | 101.8 | 111.7 | 116.8 | 116.5 | 102.9 | 112.4 | 103.4 | 110.9 | 114.0 |  |
| 3151 | Apparel knitting mills. | 76.2 | 100.0 | 96.1 | 101.4 | 108.9 | 105.6 | 112.0 | 105.6 | 96.6 | 120.0 | 123.7 |  |
| 3152 | Cut and sew apparel. | 69.8 | 100.0 | 102.3 | 114.6 | 119.8 | 119.5 | 103.9 | 117.2 | 108.4 | 113.5 | 117.6 |  |
| 3159 | Accessories and other apparel. | 97.8 | 100.0 | 109.0 | 99.3 | 98.3 | 105.2 | 76.1 | 78.7 | 70.8 | 74.0 | 67.3 |  |
| 316 | Leather and allied products. | 71.6 | 100.0 | 106.6 | 112.7 | 120.3 | 122.4 | 97.7 | 99.8 | 109.5 | 123.6 | 132.5 |  |
| 3161 | Leather and hide tanning and finishing. | 94.0 | 100.0 | 100.3 | 98.1 | 100.1 | 100.3 | 81.2 | 82.2 | 93.5 | 118.7 | 118.1 |  |
| 3162 | Footwear.. | 76.7 | 100.0 | 102.1 | 117.3 | 122.3 | 130.7 | 102.7 | 104.8 | 100.7 | 105.6 | 115.4 |  |
| 3169 | Other leather products. | 92.3 | 100.0 | 113.3 | 110.4 | 122.8 | 117.6 | 96.2 | 100.3 | 127.7 | 149.7 | 174.6 |  |
| 321 | Wood products.. | 95.0 | 100.0 | 101.2 | 102.9 | 102.7 | 106.1 | 113.6 | 114.7 | 115.6 | 123.1 | 124.9 |  |
| 3211 | Sawmills and wood preservation. | 77.6 | 100.0 | 100.3 | 104.7 | 105.4 | 108.8 | 114.4 | 121.3 | 118.2 | 127.3 | 129.7 |  |
| 3212 | Plywood and engineered wood products. | 99.7 | 100.0 | 105.1 | 98.7 | 98.8 | 105.2 | 110.3 | 107.0 | 102.9 | 110.2 | 117.4 |  |
| 3219 | Other wood products. | 103.0 | 100.0 | 101.0 | 104.5 | 103.0 | 104.7 | 113.9 | 113.9 | 119.6 | 126.3 | 125.3 |  |
| 322 | Paper and paper products. | 85.8 | 100.0 | 102.3 | 104.1 | 106.3 | 106.8 | 114.2 | 118.9 | 123.4 | 124.5 | 127.3 |  |
| 3221 | Pulp, paper, and paperboard mills. | 81.7 | 100.0 | 102.5 | 111.1 | 116.3 | 119.9 | 133.1 | 141.4 | 148.0 | 147.7 | 151.1 |  |
| 3222 | Converted paper products. | 89.0 | 100.0 | 102.5 | 100.1 | 101.1 | 100.5 | 105.6 | 109.6 | 112.9 | 114.8 | 116.6 | - |
| 323 | Printing and related support activities.. | 97.6 | 100.0 | 100.6 | 102.8 | 104.6 | 105.3 | 110.2 | 111.1 | 114.5 | 119.5 | 121.1 |  |
| 3231 | Printing and related support activities. | 97.6 | 100.0 | 100.6 | 102.8 | 104.6 | 105.3 | 110.2 | 111.1 | 114.5 | 119.5 | 121.1 |  |
| 324 | Petroleum and coal products.. | 71.1 | 100.0 | 102.2 | 107.1 | 113.5 | 112.1 | 118.0 | 119.2 | 123.4 | 123.8 | 122.8 |  |
| 3241 | Petroleum and coal products. | 71.1 | 100.0 | 102.2 | 107.1 | 113.5 | 112.1 | 118.0 | 119.2 | 123.4 | 123.8 | 122.8 |  |
| 325 | Chemicals. | 85.9 | 100.0 | 99.9 | 103.5 | 106.6 | 105.3 | 114.2 | 118.4 | 125.8 | 134.1 | 137.5 | - |
| 3251 | Basic chemicals.. | 94.6 | 100.0 | 102.8 | 115.7 | 117.5 | 108.8 | 123.8 | 136.0 | 154.4 | 165.2 | 169.3 |  |
| 3252 | Resin, rubber, and artificial fibers. | 77.4 | 100.0 | 106.0 | 109.8 | 109.8 | 106.2 | 123.1 | 122.2 | 121.9 | 130.5 | 134.9 |  |
| 3253 | Agricultural chemicals.. | 80.4 | 100.0 | 98.8 | 87.4 | 92.1 | 90.0 | 99.2 | 108.4 | 117.4 | 132.5 | 130.7 |  |
| 3254 | Pharmaceuticals and medicines. | 87.3 | 100.0 | 93.8 | 95.7 | 95.6 | 99.5 | 97.4 | 101.5 | 104.1 | 110.0 | 115.0 |  |
| 3255 | Paints, coatings, and adhesives. | 89.4 | 100.0 | 100.1 | 100.3 | 100.8 | 105.6 | 108.9 | 115.2 | 119.1 | 120.8 | 115.4 | - |
| 3256 | Soap, cleaning compounds, and toiletries... | 84.4 | 100.0 | 98.0 | 93.0 | 102.8 | 106.0 | 124.1 | 118.2 | 135.3 | 153.1 | 162.9 |  |
| 3259 | Other chemical products and preparations. | 75.4 | 100.0 | 99.2 | 109.3 | 119.7 | 110.4 | 120.8 | 123.0 | 121.3 | 123.5 | 118.1 |  |
| 326 | Plastics and rubber products. | 80.9 | 100.0 | 103.2 | 107.9 | 110.2 | 112.3 | 120.8 | 126.0 | 128.7 | 132.6 | 132.8 |  |
| 3261 | Plastics products.. | 83.1 | 100.0 | 104.2 | 109.9 | 112.3 | 114.6 | 123.8 | 129.5 | 131.9 | 135.6 | 133.8 | - |
| 3262 | Rubber products.... | 75.5 | 100.0 | 99.4 | 100.2 | 101.7 | 102.3 | 107.1 | 111.0 | 114.4 | 118.7 | 124.9 | - |
| 327 | Nonmetallic mineral products.. | 87.6 | 100.0 | 103.7 | 104.3 | 102.5 | 100.0 | 104.6 | 111.2 | 108.7 | 115.3 | 114.6 | - |
| 3271 | Clay products and refractories.. | 86.9 | 100.0 | 101.2 | 102.7 | 102.9 | 98.4 | 99.7 | 103.5 | 109.2 | 114.6 | 111.9 |  |
| 3272 | Glass and glass products.... | 82.4 | 100.0 | 101.3 | 106.7 | 108.1 | 102.9 | 107.5 | 115.3 | 113.8 | 123.1 | 132.9 |  |
| 3273 | Cement and concrete products................ | 93.6 | 100.0 | 105.1 | 105.9 | 101.6 | 98.0 | 102.4 | 108.3 | 102.8 | 106.5 | 103.1 | - |

50. Continued - Annual indexes of output per hour for selected NAICS industries
[1997=100]

| NAICS | Industry | 1987 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3274 | Lime and gypsum products. | 88.2 | 100.0 | 114.9 | 104.4 | 98.5 | 101.8 | 99.0 | 107.1 | 104.7 | 119.3 | 116.5 |  |
| 3279 | Other nonmetallic mineral products. | 83.0 | 100.0 | 99.0 | 95.6 | 96.6 | 98.6 | 106.9 | 113.6 | 110.6 | 118.9 | 116.3 |  |
| 331 | Primary metals. | 81.0 | 100.0 | 102.0 | 102.8 | 101.3 | 101.0 | 115.2 | 118.2 | 132.0 | 135.5 | 134.3 |  |
| 3311 | Iron and steel mills and ferroalloy production | 64.8 | 100.0 | 101.3 | 104.8 | 106.0 | 104.4 | 125.1 | 130.4 | 164.9 | 163.1 | 163.5 |  |
| 3312 | Steel products from purchased steel....... | 79.7 | 100.0 | 100.6 | 93.8 | 96.4 | 97.9 | 96.8 | 93.9 | 88.6 | 90.8 | 86.1 | - |
| 3313 | Alumina and aluminum production. | 90.5 | 100.0 | 101.5 | 103.5 | 96.6 | 96.2 | 124.5 | 126.8 | 137.3 | 154.4 | 151.7 | - |
| 3314 | Other nonferrous metal production. | 96.8 | 100.0 | 111.3 | 108.4 | 102.3 | 99.5 | 107.6 | 120.6 | 123.1 | 122.3 | 115.7 |  |
| 3315 | Foundries... | 81.4 | 100.0 | 101.2 | 104.5 | 103.6 | 107.4 | 116.7 | 116.3 | 123.9 | 128.6 | 131.8 |  |
| 332 | Fabricated metal product | 87.3 | 100.0 | 101.3 | 103.0 | 104.8 | 104.8 | 110.9 | 114.4 | 113.4 | 116.9 | 119.7 |  |
| 3321 | Forging and stamping. | 85.4 | 100.0 | 103.5 | 110.9 | 121.1 | 120.7 | 125.0 | 133.1 | 142.0 | 147.6 | 152.7 | - |
| 3322 | Cutlery and handtools | 86.3 | 100.0 | 99.9 | 108.0 | 105.9 | 110.3 | 113.4 | 113.2 | 107.6 | 114.1 | 116.6 | - |
| 3323 | Architectural and structural metals. | 88.7 | 100.0 | 100.9 | 102.0 | 100.6 | 101.6 | 106.0 | 108.8 | 105.4 | 109.2 | 113.5 | - |
| 3324 | Boilers, tanks, and shipping container | 86.0 | 100.0 | 100.0 | 96.5 | 94.2 | 94.4 | 98.9 | 101.6 | 93.6 | 95.7 | 96.6 |  |
| 3325 | Hardware. | 88.7 | 100.0 | 100.5 | 105.2 | 114.3 | 113.5 | 115.5 | 125.4 | 126.0 | 131.8 | 131.1 | - |
| 3326 | Spring and wire products. | 82.2 | 100.0 | 110.6 | 111.4 | 112.6 | 111.9 | 125.7 | 135.3 | 133.8 | 143.2 | 140.6 | - |
| 3327 | Machine shops and threaded products... | 76.9 | 100.0 | 99.6 | 104.2 | 108.2 | 108.8 | 114.8 | 115.7 | 114.6 | 116.3 | 117.1 | - |
| 3328 | Coating, engraving, and heat treating metals | 75.5 | 100.0 | 100.9 | 101.0 | 105.5 | 107.3 | 116.1 | 118.3 | 125.3 | 136.5 | 135.5 |  |
| 3329 | Other fabricated metal products.... | 91.0 | 100.0 | 101.9 | 99.6 | 99.9 | 96.7 | 106.5 | 111.6 | 111.2 | 112.5 | 117.7 |  |
| 333 | Machinery. | 82.3 | 100.0 | 102.9 | 104.7 | 111.5 | 109.0 | 116.6 | 125.2 | 127.0 | 134.1 | 137.4 |  |
| 3331 | Agriculture, construction, and mining machinery... | 74.6 | 100.0 | 103.3 | 94.3 | 100.3 | 100.3 | 103.7 | 116.1 | 125.4 | 129.4 | 129.1 | - |
| 3332 | Industrial machinery. | 75.1 | 100.0 | 95.1 | 105.8 | 130.0 | 105.8 | 117.6 | 117.0 | 126.5 | 122.4 | 135.3 |  |
| 3333 | Commercial and service industry machinery. | 87.0 | 100.0 | 106.3 | 110.0 | 101.3 | 94.5 | 97.8 | 104.7 | 106.5 | 115.1 | 122.3 |  |
| 3334 | HVAC and commercial refrigeration equipmen | 84.0 | 100.0 | 106.2 | 110.2 | 107.9 | 110.8 | 118.6 | 130.0 | 132.8 | 137.1 | 133.4 |  |
| 3335 | Metalworking machinery. | 85.1 | 100.0 | 99.1 | 100.3 | 106.1 | 103.3 | 112.7 | 115.2 | 117.1 | 127.3 | 128.3 |  |
| 3336 | Turbine and power transmission equipment | 80.2 | 100.0 | 105.0 | 110.8 | 114.9 | 126.9 | 130.7 | 143.0 | 126.4 | 132.5 | 128.5 | - |
| 3339 | Other general purpose machinery | 83.5 | 100.0 | 103.7 | 106.0 | 113.7 | 110.5 | 117.9 | 128.1 | 127.1 | 138.4 | 143.8 | - |
| 334 | Computer and electronic products. | 28.4 | 100.0 | 118.4 | 149.5 | 181.8 | 181.4 | 188.0 | 217.2 | 244.3 | 259.6 | 282.2 |  |
| 3341 | Computer and peripheral equipment. | 11.0 | 100.0 | 140.4 | 195.9 | 235.0 | 252.2 | 297.4 | 373.4 | 415.1 | 543.3 | 715.7 |  |
| 3342 | Communications equipment........... | 39.8 | 100.0 | 107.1 | 135.4 | 164.1 | 152.9 | 128.2 | 143.1 | 148.4 | 143.7 | 178.2 |  |
| 3343 | Audio and video equipment.. | 61.7 | 100.0 | 105.4 | 119.6 | 126.3 | 128.4 | 150.1 | 171.0 | 239.3 | 230.2 | 240.7 | - |
| 3344 | Semiconductors and electronic components. | 17.0 | 100.0 | 125.8 | 173.9 | 232.2 | 230.0 | 263.1 | 321.6 | 360.0 | 381.6 | 380.4 | - |
| 3345 | Electronic instruments.. | 70.2 | 100.0 | 102.3 | 106.7 | 116.7 | 119.3 | 118.1 | 125.3 | 145.4 | 146.6 | 150.6 |  |
| 3346 | Magnetic media manufacturing and reproduction. | 85.7 | 100.0 | 106.4 | 108.9 | 105.8 | 99.8 | 110.4 | 126.1 | 142.6 | 142.1 | 137.7 |  |
| 335 | Electrical equipment and appliances................ | 75.5 | 100.0 | 103.9 | 106.6 | 111.5 | 111.4 | 113.4 | 117.2 | 123.3 | 130.0 | 129.4 |  |
| 3351 | Electric lighting equipment.............. | 91.1 | 100.0 | 104.4 | 102.8 | 102.0 | 106.7 | 112.4 | 111.4 | 122.7 | 130.3 | 136.7 | - |
| 3352 | Household appliances. | 73.3 | 100.0 | 105.2 | 104.0 | 117.2 | 124.6 | 132.3 | 146.7 | 159.6 | 164.5 | 173.2 | - |
| 3353 | Electrical equipment.... | 68.7 | 100.0 | 100.2 | 98.7 | 99.4 | 101.0 | 101.8 | 103.4 | 110.8 | 118.5 | 118.1 | - |
| 3359 | Other electrical equipment and compon | 78.8 | 100.0 | 105.8 | 114.7 | 119.7 | 113.1 | 114.0 | 116.2 | 115.6 | 121.6 | 115.7 |  |
| 336 | Transportation equipment. | 81.6 | 100.0 | 109.7 | 118.0 | 109.4 | 113.6 | 127.4 | 137.5 | 134.9 | 140.9 | 142.4 |  |
| 3361 | Motor vehicles.......... | 75.4 | 100.0 | 113.4 | 122.6 | 109.7 | 110.0 | 126.0 | 140.7 | 142.1 | 148.4 | 163.8 | - |
| 3362 | Motor vehicle bodies and trailers. | 85.0 | 100.0 | 102.9 | 103.1 | 98.8 | 88.7 | 105.4 | 109.8 | 110.7 | 114.2 | 110.9 | - |
| 3363 | Motor vehicle parts. | 78.7 | 100.0 | 104.9 | 110.0 | 112.3 | 114.8 | 130.5 | 137.0 | 138.0 | 144.1 | 143.7 | - |
| 3364 | Aerospace products and par | 87.2 | 100.0 | 119.1 | 120.8 | 103.4 | 115.7 | 118.6 | 119.0 | 113.2 | 125.0 | 117.9 |  |
| 3365 | Railroad rolling stock. | 55.6 | 100.0 | 103.3 | 116.5 | 118.5 | 126.1 | 146.1 | 139.8 | 131.5 | 137.3 | 148.0 | - |
| 3366 | Ship and boat building. | 95.5 | 100.0 | 99.3 | 112.0 | 122.0 | 121.5 | 131.0 | 133.9 | 138.7 | 131.7 | 127.3 | - |
| 3369 | Other transportation equipment. | 73.8 | 100.0 | 111.5 | 113.8 | 132.4 | 140.2 | 150.9 | 163.0 | 168.3 | 184.1 | 197.8 | - |
| 337 | Furniture and related products... | 84.8 | 100.0 | 102.0 | 101.6 | 101.4 | 103.4 | 112.6 | 117.0 | 118.4 | 125.0 | 127.8 | - |
| 3371 | Household and institutional furniture | 85.2 | 100.0 | 102.2 | 103.1 | 101.9 | 105.5 | 111.8 | 114.7 | 113.6 | 120.8 | 124.0 | - |
| 3372 | Office furniture and fixtures. | 85.8 | 100.0 | 100.0 | 98.2 | 100.2 | 98.0 | 115.9 | 125.2 | 130.7 | 134.9 | 134.4 | - |
| 3379 | Other furniture related products | 86.3 | 100.0 | 106.9 | 102.0 | 99.5 | 105.0 | 110.2 | 110.0 | 121.3 | 128.3 | 130.8 | - |
| 339 | Miscellaneous manufacturing. | 81.1 | 100.0 | 105.2 | 107.8 | 114.7 | 116.6 | 124.2 | 132.7 | 134.9 | 144.6 | 149.8 | - |
| 3391 | Medical equipment and supplies. | 76.3 | 100.0 | 109.0 | 111.1 | 115.5 | 120.7 | 129.1 | 138.9 | 139.5 | 148.5 | 152.8 | - |
| 3399 | Other miscellaneous manufacturing. | 85.4 | 100.0 | 102.1 | 105.0 | 113.6 | 111.8 | 118.0 | 124.7 | 128.6 | 137.8 | 143.2 | - |
|  | Wholesale trade |  |  |  |  |  |  |  |  |  |  |  |  |
| 42 | Wholesale trade. | 73.2 | 100.0 | 103.4 | 111.2 | 116.5 | 117.7 | 123.3 | 127.5 | 134.8 | 135.8 | 138.6 | 141.5 |
| 423 | Durable goods.. | 62.3 | 100.0 | 107.1 | 119.2 | 125.0 | 128.9 | 140.2 | 146.6 | 161.5 | 167.4 | 174.5 | 178.4 |
| 4231 | Motor vehicles and parts. | 74.5 | 100.0 | 106.4 | 120.4 | 116.7 | 120.0 | 133.4 | 137.6 | 143.5 | 146.5 | 162.7 | 161.8 |
| 4232 | Furniture and furnishings. | 80.5 | 100.0 | 99.9 | 102.3 | 112.5 | 110.7 | 116.0 | 123.9 | 130.0 | 127.1 | 130.6 | 131.1 |
| 4233 | Lumber and construction supplies. | 109.1 | 100.0 | 105.4 | 109.3 | 107.7 | 116.6 | 123.9 | 133.0 | 139.4 | 140.2 | 135.4 | 124.5 |
| 4234 | Commercial equipment.. | 28.0 | 100.0 | 125.5 | 162.0 | 181.9 | 217.9 | 264.9 | 299.1 | 352.8 | 402.0 | 447.3 | 508.5 |
| 4235 | Metals and minerals. | 101.7 | 100.0 | 100.9 | 94.0 | 93.9 | 94.4 | 96.3 | 97.5 | 106.3 | 104.2 | 99.9 | 94.4 |
| 4236 | Electric goods... | 42.8 | 100.0 | 105.9 | 127.5 | 152.8 | 147.6 | 159.5 | 165.7 | 194.1 | 204.6 | 222.1 | 235.1 |
| 4237 | Hardware and plumbing. | 82.2 | 100.0 | 101.8 | 104.4 | 103.7 | 100.5 | 102.6 | 103.9 | 107.3 | 104.5 | 105.6 | 105.8 |
| 4238 | Machinery and supplies. | 74.1 | 100.0 | 104.3 | 102.9 | 105.5 | 102.9 | 100.3 | 103.4 | 112.4 | 117.6 | 121.2 | 121.5 |
| 4239 | Miscellaneous durable goods. | 89.8 | 100.0 | 100.8 | 113.7 | 114.7 | 116.8 | 124.6 | 119.6 | 135.0 | 135.5 | 122.3 | 118.4 |
| 424 | Nondurable goods..... | 91.0 | 100.0 | 99.1 | 100.8 | 105.1 | 105.1 | 105.8 | 110.5 | 113.6 | 114.3 | 113.1 | 115.0 |

50. Continued - Annual indexes of output per hour for selected NAICS industries

| NAICS | Industry | 1987 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4241 | Paper and paper products | 85.6 | 100.0 | 98.4 | 100.1 | 100.9 | 104.6 | 116.6 | 119.7 | 130.9 | 141.7 | 136.9 | 146.5 |
| 4242 | Druggists' goods. | 70.7 | 100.0 | 94.2 | 93.1 | 85.9 | 84.9 | 89.8 | 100.2 | 105.8 | 112.1 | 109.7 | 104.3 |
| 4243 | Apparel and piece goods. | 86.3 | 100.0 | 103.6 | 105.1 | 108.8 | 115.2 | 122.8 | 125.9 | 131.0 | 140.8 | 146.6 | 148.3 |
| 4244 | Grocery and related products. | 87.9 | 100.0 | 101.1 | 101.0 | 102.4 | 101.9 | 98.6 | 104.9 | 104.1 | 103.4 | 103.8 | 109.7 |
| 4245 | Farm product raw materials. | 81.6 | 100.0 | 94.3 | 101.6 | 105.1 | 102.1 | 98.1 | 98.2 | 109.3 | 111.0 | 117.9 | 125.1 |
| 4246 | Chemicals. | 90.4 | 100.0 | 97.1 | 93.3 | 87.9 | 85.3 | 89.1 | 92.2 | 91.2 | 87.4 | 85.1 | 86.4 |
| 4247 | Petroleum. | 84.4 | 100.0 | 88.5 | 102.9 | 138.1 | 140.6 | 153.6 | 151.1 | 163.2 | 153.3 | 149.4 | 149.1 |
| 4248 | Alcoholic beverages | 99.3 | 100.0 | 106.5 | 105.6 | 108.4 | 106.4 | 106.8 | 107.9 | 103.1 | 104.0 | 107.4 | 108.5 |
| 4249 | Miscellaneous nondurable goods | 111.2 | 100.0 | 105.4 | 106.8 | 115.0 | 111.9 | 106.1 | 109.8 | 120.7 | 124.1 | 121.9 | 117.1 |
| 425 | Electronic markets and agents and brokers | 64.3 | 100.0 | 102.4 | 112.3 | 120.1 | 110.7 | 109.8 | 104.5 | 101.6 | 91.5 | 95.0 | 98.3 |
| 4251 | Electronic markets and agents and brokers | 64.3 | 100.0 | 102.4 | 112.3 | 120.1 | 110.7 | 109.8 | 104.5 | 101.6 | 91.5 | 95.0 | 98.3 |
|  | Retail trade |  |  |  |  |  |  |  |  |  |  |  |  |
| 44-45 | Retail trade. | 79.2 | 100.0 | 105.7 | 112.7 | 116.1 | 120.1 | 125.6 | 131.6 | 137.9 | 141.3 | 147.3 | 152.7 |
| 441 | Motor vehicle and parts dealers | 78.4 | 100.0 | 106.4 | 115.1 | 114.3 | 116.0 | 119.9 | 124.3 | 127.3 | 126.7 | 129.3 | 132.2 |
| 4411 | Automobile dealers. | 79.2 | 100.0 | 106.5 | 116.3 | 113.7 | 115.5 | 117.2 | 119.5 | 124.7 | 123.5 | 125.8 | 129.8 |
| 4412 | Other motor vehicle dealers | 74.1 | 100.0 | 109.6 | 114.8 | 115.3 | 124.6 | 133.6 | 133.8 | 143.3 | 134.6 | 142.6 | 146.9 |
| 4413 | Auto parts, accessories, and tire stores. | 71.8 | 100.0 | 105.1 | 107.6 | 108.4 | 101.3 | 107.7 | 115.1 | 110.1 | 115.5 | 115.9 | 112.0 |
| 442 | Furniture and home furnishings stor | 75.1 | 100.0 | 104.1 | 110.8 | 115.9 | 122.4 | 129.3 | 134.6 | 146.7 | 150.5 | 158.2 | 168.7 |
| 4421 | Furniture stores. | 77.3 | 100.0 | 104.3 | 107.5 | 112.0 | 119.7 | 125.2 | 128.8 | 139.2 | 142.3 | 151.1 | 156.6 |
| 4422 | Home furnishings stores.. | 71.3 | 100.0 | 104.1 | 115.2 | 121.0 | 126.1 | 134.9 | 142.6 | 156.8 | 161.4 | 168.3 | 184.6 |
| 443 | Electronics and appliance stores. | 38.0 | 100.0 | 122.6 | 150.6 | 173.7 | 196.7 | 233.5 | 292.7 | 334.1 | 367.5 | 412.0 | 471.1 |
| 4431 | Electronics and appliance stores. | 38.0 | 100.0 | 122.6 | 150.6 | 173.7 | 196.7 | 233.5 | 292.7 | 334.1 | 367.5 | 412.0 | 471.1 |
| 444 | Building material and garden supply store | 75.8 | 100.0 | 107.4 | 113.8 | 113.3 | 116.8 | 120.8 | 127.1 | 134.6 | 134.8 | 137.9 | 142.2 |
| 4441 | Building material and supplies dealers. | 77.6 | 100.0 | 108.3 | 115.3 | 115.1 | 116.7 | 121.3 | 127.4 | 134.0 | 134.9 | 138.0 | 140.0 |
| 4442 | Lawn and garden equipment and supplies stores.. | 66.9 | 100.0 | 102.4 | 105.5 | 103.1 | 118.4 | 118.3 | 125.7 | 140.1 | 134.7 | 138.3 | 162.1 |
| 445 | Food and beverage stores. | 110.8 | 100.0 | 99.9 | 101.9 | 101.0 | 103.8 | 104.7 | 107.2 | 112.9 | 117.9 | 120.6 | 123.8 |
| 4451 | Grocery stores. | 111.1 | 100.0 | 99.6 | 102.5 | 101.1 | 103.3 | 104.8 | 106.7 | 112.2 | 116.8 | 118.2 | 120.6 |
| 4452 | Specialty food stores. | 138.5 | 100.0 | 100.5 | 96.4 | 98.5 | 108.2 | 105.3 | 112.2 | 120.3 | 125.3 | 139.4 | 145.4 |
| 4453 | Beer, wine, and liquor stores. | 93.6 | 100.0 | 104.6 | 99.1 | 105.7 | 107.1 | 110.1 | 117.0 | 127.8 | 139.8 | 146.1 | 156.8 |
| 446 | Health and personal care stores | 84.0 | 100.0 | 104.0 | 107.1 | 112.2 | 116.2 | 122.9 | 129.5 | 134.3 | 133.4 | 139.3 | 139.0 |
| 4461 | Health and personal care stores | 84.0 | 100.0 | 104.0 | 107.1 | 112.2 | 116.2 | 122.9 | 129.5 | 134.3 | 133.4 | 139.3 | 139.0 |
| 447 | Gasoline stations.. | 83.9 | 100.0 | 106.7 | 110.7 | 107.7 | 112.9 | 125.1 | 119.9 | 122.2 | 124.7 | 124.9 | 129.3 |
| 4471 | Gasoline stations. | 83.9 | 100.0 | 106.7 | 110.7 | 107.7 | 112.9 | 125.1 | 119.9 | 122.2 | 124.7 | 124.9 | 129.3 |
| 448 | Clothing and clothing accessories stores | 66.3 | 100.0 | 106.3 | 114.0 | 123.5 | 126.4 | 131.3 | 138.9 | 139.1 | 147.6 | 162.4 | 176.6 |
| 4481 | Clothing stores | 67.1 | 100.0 | 108.7 | 114.2 | 125.0 | 130.3 | 136.0 | 141.8 | 140.9 | 153.0 | 169.4 | 186.9 |
| 4482 | Shoe stores.. | 65.3 | 100.0 | 94.2 | 104.9 | 110.0 | 111.5 | 125.2 | 132.5 | 124.8 | 132.0 | 145.1 | 141.6 |
| 4483 | Jewelry, luggage, and leather goods stores | 64.5 | 100.0 | 108.7 | 122.5 | 130.5 | 123.9 | 118.7 | 132.9 | 144.3 | 138.9 | 148.3 | 162.9 |
| 451 | Sporting goods, hobby, book, and music stores. | 74.9 | 100.0 | 107.9 | 114.0 | 121.1 | 127.1 | 127.6 | 131.5 | 151.1 | 163.5 | 170.5 | 167.8 |
| 4511 | Sporting goods and musical instrument stores... | 73.2 | 100.0 | 111.5 | 119.8 | 129.4 | 134.5 | 136.0 | 141.1 | 166.0 | 179.3 | 191.4 | 189.2 |
| 4512 | Book, periodical, and music stores. | 78.9 | 100.0 | 101.0 | 103.2 | 105.8 | 113.0 | 111.6 | 113.7 | 123.6 | 134.3 | 132.4 | 128.3 |
| 452 | General merchandise stores. | 73.5 | 100.0 | 105.3 | 113.4 | 120.2 | 124.8 | 129.1 | 136.9 | 140.7 | 145.0 | 149.8 | 152.5 |
| 4521 | Department stores. | 87.2 | 100.0 | 100.4 | 104.5 | 106.2 | 103.8 | 102.0 | 106.8 | 109.0 | 110.0 | 112.7 | 107.0 |
| 4529 | Other general merchandise stores. | 54.8 | 100.0 | 114.7 | 131.0 | 147.3 | 164.7 | 179.3 | 188.8 | 192.9 | 199.8 | 204.8 | 219.3 |
| 453 | Miscellaneous store retailers. | 65.1 | 100.0 | 108.9 | 111.3 | 114.1 | 112.6 | 119.1 | 126.1 | 130.8 | 139.2 | 155.0 | 160.8 |
| 4531 | Florists.. | 77.6 | 100.0 | 102.3 | 116.2 | 115.2 | 102.7 | 113.8 | 108.9 | 103.4 | 123.7 | 145.1 | 132.9 |
| 4532 | Office supplies, stationery and gift stores | 61.4 | 100.0 | 111.5 | 119.2 | 127.3 | 132.3 | 141.5 | 153.9 | 172.8 | 182.4 | 204.8 | 224.5 |
| 4533 | Used merchandise stores. | 64.5 | 100.0 | 119.1 | 113.4 | 116.5 | 121.9 | 142.0 | 149.7 | 152.6 | 156.6 | 167.6 | 182.0 |
| 4539 | Other miscellaneous store retailers. | 68.3 | 100.0 | 105.3 | 103.0 | 104.4 | 96.9 | 94.4 | 99.9 | 96.9 | 101.6 | 114.0 | 115.4 |
| 454 | Nonstore retailers. | 50.7 | 100.0 | 114.3 | 128.9 | 152.2 | 163.6 | 182.1 | 195.5 | 215.5 | 220.6 | 261.9 | 290.8 |
| 4541 | Electronic shopping and mail-order houses. | 39.4 | 100.0 | 120.2 | 142.6 | 160.2 | 179.6 | 212.7 | 243.6 | 273.0 | 290.1 | 355.9 | 397.2 |
| 4542 | Vending machine operators.. | 95.5 | 100.0 | 106.3 | 105.4 | 111.1 | 95.7 | 91.3 | 102.3 | 110.5 | 114.4 | 125.7 | 132.4 |
| 4543 | Direct selling establishments. | 70.8 | 100.0 | 101.9 | 104.3 | 122.5 | 127.9 | 135.1 | 127.0 | 130.3 | 119.6 | 127.5 | 138.4 |
| 481 | Transportation and warehousing <br> Air transportation | 81.1 | 100.0 | 97.6 | 98.2 | 98.1 | 91.9 | 102.1 | 112.8 | 126.9 | 135.5 |  |  |
| 482111 | Line-haul railroads. | 58.9 | 100.0 | 102.1 | 105.5 | 114.3 | 121.9 | 131.9 | 142.0 | 146.4 | 138.4 | 142.5 142.8 |  |
| 48412 | General freight trucking, long-distance. | 85.7 | 100.0 | 99.4 | 99.1 | 101.9 | 103.2 | 107.0 | 110.7 | 110.7 | 113.2 | 112.3 |  |
| 48421 | Used household and office goods moving. | 106.7 | 100.0 | 91.0 | 96.1 | 94.8 | 84.0 | 81.6 | 86.2 | 88.6 | 88.3 | 87.0 |  |
| 491 | U.S. Postal service. | 90.9 | 100.0 | 101.6 | 102.8 | 105.5 | 106.3 | 106.4 | 107.8 | 110.0 | 111.2 | 111.3 |  |
| 4911 | U.S. Postal service. | 90.9 | 100.0 | 101.6 | 102.8 | 105.5 | 106.3 | 106.4 | 107.8 | 110.0 | 111.2 | 111.3 |  |
| 492 | Couriers and messengers. | 148.3 | 100.0 | 112.6 | 117.6 | 122.0 | 123.4 | 131.1 | 134.0 | 126.8 | 125.1 | 128.6 |  |
| 493 | Warehousing and storage. | - | 100.0 | 106.4 | 107.7 | 109.3 | 115.3 | 122.1 | 124.8 | 122.5 | 124.9 | 122.3 |  |
| 4931 | Warehousing and storage. | - | 100.0 | 106.4 | 107.7 | 109.3 | 115.3 | 122.1 | 124.8 | 122.5 | 124.9 | 122.3 |  |
| 49311 | General warehousing and storage.................... | - | 100.0 | 112.1 | 112.9 | 115.8 | 126.3 | 136.1 | 138.9 | 131.0 | 132.2 | 127.9 |  |
| 49312 | Refrigerated warehousing and storage... | - | 100.0 | 97.9 | 103.4 | 95.4 | 85.4 | 87.2 | 92.3 | 99.3 | 97.5 | 88.5 |  |
| 511 | Information <br> Publishing industries, except internet | 64.1 | 100.0 | 116.1 | 116.3 | 117.1 | 116.6 | 117.2 | 126.4 | 130.7 | 136.5 | 142.7 |  |

50. Continued - Annual indexes of output per hour for selected NAICS industries
[1997=100]

| NAICS | Industry | 1987 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5111 | Newspaper, book, and directory publishers | 105.0 | 100.0 | 103.9 | 104.1 | 107.7 | 105.8 | 104.7 | 109.5 | 106.6 | 107.6 | 110.8 | - |
| 5112 | Software publishers. | 10.2 | 100.0 | 134.8 | 129.2 | 119.2 | 117.4 | 122.1 | 138.1 | 160.6 | 173.7 | 177.0 | - |
| 51213 | Motion picture and video exhibition. | 90.7 | 100.0 | 99.8 | 101.8 | 106.5 | 101.6 | 99.8 | 100.4 | 103.6 | 102.4 | 105.7 | - |
| 515 | Broadcasting, except internet | 99.5 | 100.0 | 100.8 | 102.9 | 103.6 | 99.2 | 104.0 | 107.9 | 112.5 | 117.7 | 125.5 | - |
| 5151 | Radio and television broadcasting. | 98.1 | 100.0 | 91.5 | 92.6 | 92.1 | 89.6 | 95.1 | 94.6 | 96.6 | 100.9 | 109.5 | - |
| 5152 | Cable and other subscription programming. | 105.6 | 100.0 | 136.2 | 139.1 | 141.2 | 128.1 | 129.8 | 146.0 | 158.7 | 164.6 | 169.9 | - |
| 5171 | Wired telecommunications carriers | 56.9 | 100.0 | 107.7 | 116.7 | 122.7 | 116.7 | 124.1 | 130.5 | 131.7 | 138.2 | 146.2 | - |
| 5172 | Wireless telecommunications carriers | 75.6 | 100.0 | 110.5 | 145.2 | 152.8 | 191.9 | 217.9 | 242.6 | 292.2 | 381.9 | 435.9 | - |
| 5175 | Cable and other program distribution | 105.2 | 100.0 | 97.1 | 95.8 | 91.6 | 87.7 | 95.0 | 101.3 | 113.8 | 110.6 | 110.6 | - |
| 52211 | Finance and insurance Commercial banking. | 72.8 | 100.0 | 97.0 | 99.8 | 102.7 | 99.6 | 102.1 | 103.6 | 108.4 | 108.5 | 114.2 | - |
|  | Real estate and rental and leasing |  | 100.0 | 1001 |  |  |  |  |  |  |  |  |  |
| 532111 53212 | Passenger car rental.................... | 92.7 60.3 | 100.0 100.0 | 100.1 | 112.2 120.9 | 112.3 121.7 | 111.1 | 114.6 114.0 | 121.1 | 118.2 136.6 | 110.2 | 111.8 162.2 | - |
| 53223 | Video tape and disc rental............. | 77.0 | 100.0 | 113.2 | 129.4 | 134.9 | 133.3 | 130.3 | 148.5 | 154.5 | 144.2 | 176.4 | - |
| 541213 | Professional and technical services Tax preparation services........................... | 82.9 | 100.0 | 107.6 | 105.8 | 100.9 | 94.4 | 111.4 | 110.0 | 99.9 | 103.6 | 99.7 | - |
| 54131 | Architectural services. | 90.0 | 100.0 | 111.4 | 106.8 | 107.6 | 111.0 | 107.6 | 112.6 | 118.3 | 120.8 | 119.1 | - |
| 54133 | Engineering services | 90.2 | 100.0 | 98.2 | 98.0 | 102.0 | 100.1 | 100.5 | 100.5 | 107.8 | 115.4 | 116.2 | - |
| 54181 | Advertising agencies. | 95.9 | 100.0 | 89.2 | 97.9 | 107.5 | 106.9 | 113.1 | 121.1 | 133.5 | 131.5 | 132.8 | - |
| 541921 | Photography studios, portrait | 98.1 | 100.0 | 124.8 | 109.8 | 108.9 | 102.2 | 97.6 | 104.1 | 93.0 | 93.5 | 95.3 | - |
| 56131 | Administrative and waste services <br> Employment placement agencies | - | 100.0 | 86.8 | 93.2 | 89.8 | 99.6 | 116.8 | 115.4 | 119.8 | 115.9 | 122.9 | - |
| 56151 | Travel agencies. | 89.3 | 100.0 | 111.4 | 115.5 | 119.4 | 115.2 | 127.6 | 147.2 | 167.2 | 182.4 | 189.9 | - |
| 56172 | Janitorial services | 75.1 | 100.0 | 95.3 | 98.6 | 101.0 | 102.1 | 105.6 | 118.8 | 116.6 | 121.5 | 115.6 | - |
| 6215 | Health care and social assistance <br> Medical and diagnostic laboratories | - | 100.0 | 118.8 | 124.7 | 131.9 | 135.3 | 137.6 | 140.8 | 140.8 | 37.9 | 140.1 | - |
| 621511 | Medical laboratories................... | - | 100.0 | 117.2 | 121.4 | 127.4 | 127.7 | 123.1 | 128.6 | 130.7 | 126.0 | 128.2 | - |
| 621512 | Diagnostic imaging centers | - | 100.0 | 121.4 | 129.7 | 139.9 | 148.3 | 163.3 | 160.0 | 153.5 | 154.0 | 156.3 | - |
|  | Arts, entertainment, and recreation |  |  |  |  |  |  |  |  |  |  |  |  |
| 71311 71395 | Amusement and theme parks Bowling centers................ | 112.0 106.0 | 100.0 100.0 | 110.5 89.9 | 105.2 89.4 | 106.0 93.4 | 93.0 94.3 | 106.5 96.4 | 113.2 102.4 | 101.4 107.9 | 109.9 | 97.7 110.6 | - |
| 7211 | Accommodation and food services | 85.1 | 100.0 | 100.1 | 105.6 | 111.8 | 1076 | 112.1 | 114.4 | 120.4 | 115.0 | 1118 | - |
| 722 | Food services and drinking places | 96.0 | 100.0 | 101.0 | 100.9 | 103.5 | 103.8 | 104.4 | 106.3 | 107.0 | 107.9 | 109.7 | 109.2 |
| 7221 | Full-service restaurants. | 92.1 | 100.0 | 100.9 | 100.8 | 103.0 | 103.6 | 104.4 | 104.2 | 104.8 | 105.2 | 106.0 | 105.1 |
| 7222 | Limited-service eating places. | 96.5 | 100.0 | 101.2 | 100.4 | 102.0 | 102.5 | 102.7 | 105.4 | 106.8 | 107.5 | 109.8 | 108.6 |
| 7223 | Special food services. | 89.9 | 100.0 | 100.6 | 105.2 | 115.0 | 115.3 | 114.9 | 117.6 | 118.0 | 119.2 | 118.7 | 120.2 |
| 7224 | Drinking places, alcoholic beverages. | 136.7 | 100.0 | 99.7 | 98.8 | 100.6 | 97.6 | 102.9 | 118.6 | 112.2 | 121.6 | 135.7 | 145.2 |
|  | Other services |  |  |  |  |  |  |  |  |  |  |  |  |
| 8111 | Automotive repair and maintenance................ | 85.9 | 100.0 | 103.6 | 106.1 | 109.4 | 108.9 | 103.7 | 104.1 | 112.0 | 111.9 | 112.8 | - |
| 81211 | Hair, nail, and skin care services... | 83.5 | 100.0 | 108.6 | 108.6 | 108.2 | 114.6 | 110.4 | 119.7 | 125.0 | 129.9 | 122.3 | - |
| 81221 | Funeral homes and funeral services. | 103.7 | 100.0 | 106.8 | 103.3 | 94.8 | 91.8 | 94.6 | 95.7 | 92.9 | 93.2 | 99.7 | - |
| 8123 | Drycleaning and laundry services.... | 97.1 | 100.0 | 100.1 | 105.0 | 107.6 | 110.9 | 112.5 | 103.8 | 110.6 | 120.5 | 119.6 | - |
| 81292 | Photofinishing........ | 95.8 | 100.0 | 69.3 | 76.3 | 73.8 | 81.2 | 100.5 | 100.5 | 102.0 | 112.4 | 114.4 | - |

NOTE: Dash indicates data are not available.
51. Unemployment rates, approximating U.S. concepts, 10 countries, seasonally adjusted
[Percent]

| Country | 2006 | 2007 | 2006 |  |  |  | 2007 |  |  |  | $\begin{gathered} 2008 \\ 1 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | I | II | III | IV | I | II | III | IV |  |
| United States.. | 4.6 | 4.6 | 4.7 | 4.7 | 4.7 | 4.4 | 4.5 | 4.5 | 4.7 | 4.8 | 4.9 |
| Canada...... | 5.5 | 5.3 | 5.7 | 5.4 | 5.6 | 5.4 | 5.4 | 5.3 | 5.2 | 5.2 | 5.2 |
| Australia... | 4.8 | 4.4 | 5.0 | 4.9 | 4.7 | 4.5 | 4.5 | 4.3 | 4.3 | 4.3 | 4.1 |
| Japan. | 4.2 | 3.9 | 4.2 | 4.2 | 4.2 | 4.1 | 4.0 | 3.8 | 3.8 | 3.9 | 3.9 |
| France. | 9.5 | 8.6 | 9.8 | 9.7 | 9.5 | 9.2 | 9.0 | 8.8 | 8.5 | 8.2 | 8.1 |
| Germany... | 10.4 | 8.7 | 11.1 | 10.6 | 10.1 | 9.6 | 9.3 | 8.9 | 8.5 | 8.2 | 7.7 |
| Italy............ | 6.9 | 6.1 | 7.3 | 6.9 | 6.7 | 6.4 | 6.3 | 6.1 | 6.0 | 6.0 | - |
| Netherlands.. | 3.9 | 3.2 | 4.3 | 3.9 | 3.8 | 3.8 | 3.6 | 3.2 | 3.0 | 3.0 | - |
| Sweden.. | 7.0 | 6.1 | 7.3 | 7.3 | 6.7 | 6.5 | 6.4 | 6.1 | 5.8 | 5.9 | 5.8 |
| United Kingdom. | 5.5 | 5.4 | 5.3 | 5.5 | 5.6 | 5.5 | 5.5 | 5.4 | 5.4 | 5.2 | - |

NOTE: Dash indicates data not available.
Quarterly figures for France, Germany, Italy, and the Netherlands 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. Quarterly figures for Sweden are BLS seasonally adjusted estimates derived from Swedish not seasonally adjusted data.
For further qualifications and historical annual data, see the BLS report
Comparative Civilian Labor Force Statistics, 10 Countries (on the

Internet at http://www.bls.gov/fis/flscomparelf.htm). For monthly unemployment rates, as well as the quarterly and annual rates published in this table, see the BLS report Unemployment rates in 10 countries, civilian labor force basis, approximating U.S. concepts, seasonally adjusted (on the Internet at http://www.bls.gov/fls/flsjec.pdf). Unemployment rates may differ between the two reports mentioned, because the former is updated semi-annually, whereas the latter is updated monthly and reflects the most recent revisions in source data.
52. Annual data: employment status of the working-age population, approximating U.S. concepts, 10 countries
[Numbers in thousands]

| Employment status and country | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Civilian labor force |  |  |  |  |  |  |  |  |  |  |  |
| United States. | 136,297 | 137,673 | 139,368 | 142,583 | 143,734 | 144,863 | 146,510 | 147,401 | 149,320 | 151,428 | 153,124 |
| Canada. | 14,884 | 15,135 | 15,403 | 15,637 | 15,891 | 16,366 | 16,733 | 16,955 | 17,108 | 17,351 | 17,696 |
| Australia. | 9,204 | 9,339 | 9,414 | 9,590 | 9,744 | 9,893 | 10,079 | 10,221 | 10,506 | 10,699 | 10,948 |
| Japan. | 67,200 | 67,240 | 67,090 | 66,990 | 66,860 | 66,240 | 66,010 | 65,770 | 65,850 | 65,960 | 66,080 |
| France. | 25,116 | 25,434 | 25,791 | 26,099 | 26,393 | 26,646 | 26,851 | 26,937 | 27,092 | 27,322 | 27,509 |
| Germany. | 39,415 | 39,752 | 39,375 | 39,302 | 39,459 | 39,413 | 39,276 | 39,711 | 40,760 | 41,250 | - |
| Italy. | 22,753 | 23,004 | 23,176 | 23,361 | 23,524 | 23,728 | 24,020 | 24,084 | 24,179 | 24,395 | 24,459 |
| Netherlands. | 7,612 | 7,744 | 7,881 | 8,052 | 8,199 | 8,345 | 8,379 | 8,439 | 8,459 | 8,541 | 8,686 |
| Sweden. | 4,414 | 4,401 | 4,423 | 4,482 | 4,522 | 4,537 | 4,557 | 4,571 | 4,694 | 4,748 | 4,823 |
| United Kingdom. | 28,401 | 28,474 | 28,777 | 28,952 | 29,085 | 29,337 | 29,559 | 29,791 | 30,126 | 30,586 | 30,774 |
| Participation rate ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| United States. | 67.1 | 67.1 | 67.1 | 67.1 | 66.8 | 66.6 | 66.2 | 66.0 | 66.0 | 66.2 | 66.0 |
| Canada. | 65.1 | 65.4 | 65.9 | 66.0 | 66.1 | 67.1 | 67.7 | 67.7 | 67.4 | 67.4 | 67.7 |
| Australia. | 64.3 | 64.3 | 64.0 | 64.4 | 64.4 | 64.3 | 64.6 | 64.6 | 65.3 | 65.6 | 66.0 |
| Japan. | 63.2 | 62.8 | 62.4 | 62.0 | 61.6 | 60.8 | 60.3 | 60.0 | 60.0 | 60.0 | 60.0 |
| France. | 55.6 | 56.0 | 56.3 | 56.6 | 56.7 | 56.8 | 56.8 | 56.6 | 56.5 | 56.6 | 56.7 |
| Germany. | 57.3 | 57.7 | 56.9 | 56.7 | 56.7 | 56.4 | 56.0 | 56.4 | 57.6 | 58.2 | - |
| Italy. | 47.3 | 47.7 | 47.9 | 48.1 | 48.3 | 48.5 | 49.1 | 49.1 | 48.7 | 48.9 | 48.6 |
| Netherlands. | 61.1 | 61.8 | 62.5 | 63.4 | 64.0 | 64.7 | 64.6 | 64.8 | 64.7 | 65.1 | 65.9 |
| Sweden. | 63.2 | 62.8 | 62.7 | 63.7 | 63.6 | 63.9 | 63.8 | 63.6 | 64.8 | 65.0 | 65.3 |
| United Kingdom. | 62.5 | 62.5 | 62.8 | 62.9 | 62.7 | 62.9 | 63.0 | 63.0 | 63.1 | 63.5 | 63.4 |
| Employed |  |  |  |  |  |  |  |  |  |  |  |
| United States.. | 129,558 | 131,463 | 133,488 | 136,891 | 136,933 | 136,485 | 137,736 | 139,252 | 141,730 | 144,427 | 146,047 |
| Canada. | 13,637 | 13,973 | 14,331 | 14,681 | 14,866 | 15,223 | 15,586 | 15,861 | 16,080 | 16,393 | 16,767 |
| Australia. | 8,444 | 8,618 | 8,762 | 8,989 | 9,086 | 9,264 | 9,480 | 9,668 | 9,975 | 10,186 | 10,470 |
| Japan. | 64,900 | 64,450 | 63,920 | 63,790 | 63,460 | 62,650 | 62,510 | 62,640 | 62,910 | 63,210 | 63,510 |
| France. | 22,176 | 22,597 | 23,080 | 23,714 | 24,167 | 24,312 | 24,373 | 24,354 | 24,493 | 24,717 | 25,135 |
| Germany. | 35,508 | 36,059 | 36,042 | 36,236 | 36,350 | 36,018 | 35,615 | 35,604 | 36,185 | 36,978 | - |
| Italy. | 20,169 | 20,370 | 20,617 | 20,973 | 21,359 | 21,666 | 21,972 | 22,124 | 22,290 | 22,721 | 22,953 |
| Netherlands. | 7,189 | 7,408 | 7,605 | 7,813 | 8,014 | 8,114 | 8,069 | 8,052 | 8,056 | 8,205 | 8,408 |
| Sweden. | 3,969 | 4,033 | 4,110 | 4,222 | 4,295 | 4,303 | 4,293 | 4,271 | 4,334 | 4,416 | 4,530 |
| United Kingdom.. | 26,413 | 26,686 | 27,051 | 27,368 | 27,599 | 27,813 | 28,075 | 28,372 | 28,665 | 28,917 | 29,120 |
| Employment-population ratio ${ }^{2}$ |  |  |  |  |  |  |  |  |  |  |  |
| United States. | 63.8 | 64.1 | 64.3 | 64.4 | 63.7 | 62.7 | 62.3 | 62.3 | 62.7 | 63.1 | 63.0 |
| Canada. | 59.6 | 60.4 | 61.3 | 62.0 | 61.9 | 62.4 | 63.1 | 63.3 | 63.4 | 63.6 | 64.2 |
| Australia. | 59.0 | 59.3 | 59.6 | 60.3 | 60.0 | 60.2 | 60.7 | 61.1 | 62.0 | 62.5 | 63.1 |
| Japan. | 61.0 | 60.2 | 59.4 | 59.0 | 58.4 | 57.5 | 57.1 | 57.1 | 57.3 | 57.5 | 57.6 |
| France. | 49.1 | 49.7 | 50.4 | 51.4 | 51.9 | 51.8 | 51.5 | 51.1 | 51.1 | 51.2 | 51.8 |
| Germany. | 51.6 | 52.3 | 52.1 | 52.2 | 52.2 | 51.5 | 50.8 | 50.6 | 51.2 | 52.2 | - |
| Italy.. | 41.9 | 42.2 | 42.6 | 43.2 | 43.8 | 44.3 | 44.9 | 45.1 | 44.9 | 45.5 | 45.6 |
| Netherlands. | 57.7 | 59.1 | 60.3 | 61.5 | 62.6 | 62.9 | 62.2 | 61.8 | 61.6 | 62.5 | 63.8 |
| Sweden. | 56.8 | 57.6 | 58.3 | 60.0 | 60.4 | 60.6 | 60.1 | 59.4 | 59.9 | 60.4 | 61.3 |
| United Kingdom. | 58.2 | 58.5 | 59.1 | 59.4 | 59.5 | 59.6 | 59.8 | 60.0 | 60.1 | 60.1 | 60.0 |
| Unemployed |  |  |  |  |  |  |  |  |  |  |  |
| United States. | 6,739 | 6,210 | 5,880 | 5,692 | 6,801 | 8,378 | 8,774 | 8,149 | 7,591 | 7,001 | 7,078 |
| Canada. | 1,248 | 1,162 | 1,072 | 956 | 1,026 | 1,143 | 1,147 | 1,093 | 1,028 | 958 | 929 |
| Australia. | 759 | 721 | 652 | 602 | 658 | 629 | 599 | 553 | 531 | 512 | 478 |
| Japan. | 2,300 | 2,790 | 3,170 | 3,200 | 3,400 | 3,590 | 3,500 | 3,130 | 2,940 | 2,750 | 2,570 |
| France. | 2,940 | 2,837 | 2,711 | 2,385 | 2,226 | 2,334 | 2,478 | 2,583 | 2,599 | 2,605 | 2,374 |
| Germany. | 3,907 | 3,693 | 3,333 | 3,065 | 3,110 | 3,396 | 3,661 | 4,107 | 4,575 | 4,272 | - |
| Italy.. | 2,584 | 2,634 | 2,559 | 2,388 | 2,164 | 2,062 | 2,048 | 1,960 | 1,889 | 1,673 | 1,506 |
| Netherlands. | 423 | 337 | 277 | 239 | 186 | 231 | 310 | 387 | 402 | 336 | 278 |
| Sweden. | 445 | 368 | 313 | 260 | 227 | 234 | 264 | 300 | 361 | 332 | 293 |
| United Kingdom.. | 1,987 | 1,788 | 1,726 | 1,584 | 1,486 | 1,524 | 1,484 | 1,419 | 1,462 | 1,669 | 1,654 |
| Unemployment rate |  |  |  |  |  |  |  |  |  |  |  |
| United States.. | 4.9 | 4.5 | 4.2 | 4.0 | 4.7 | 5.8 | 6.0 | 5.5 | 5.1 | 4.6 | 4.6 |
| Canada. | 8.4 | 7.7 | 7.0 | 6.1 | 6.5 | 7.0 | 6.9 | 6.4 | 6.0 | 5.5 | 5.3 |
| Australia. | 8.3 | 7.7 | 6.9 | 6.3 | 6.8 | 6.4 | 5.9 | 5.4 | 5.1 | 4.8 | 4.4 |
| Japan. | 3.4 | 4.1 | 4.7 | 4.8 | 5.1 | 5.4 | 5.3 | 4.8 | 4.5 | 4.2 | 3.9 |
| France. | 11.7 | 11.2 | 10.5 | 9.1 | 8.4 | 8.8 | 9.2 | 9.6 | 9.6 | 9.5 | 8.6 |
| Germany.. | 9.9 | 9.3 | 8.5 | 7.8 | 7.9 | 8.6 | 9.3 | 10.3 | 11.2 | 10.4 | 8.7 |
| Italy........ | 11.4 | 11.5 | 11.0 | 10.2 | 9.2 | 8.7 | 8.5 | 8.1 | 7.8 | 6.9 | 6.2 |
| Netherlands. | 5.6 | 4.4 | 3.5 | 3.0 | 2.3 | 2.8 | 3.7 | 4.6 | 4.8 | 3.9 | 3.2 |
| Sweden.. | 10.1 | 8.4 | 7.1 | 5.8 | 5.0 | 5.2 | 5.8 | 6.6 | 7.7 | 7.0 | 6.1 |
| United Kingdom.... | 7.0 | 6.3 | 6.0 | 5.5 | 5.1 | 5.2 | 5.0 | 4.8 | 4.9 | 5.5 | 5.4 |

${ }^{1}$ Labor force as a percent of the working-age population.
${ }^{2}$ Employment as a percent of the working-age population.
NOTE: Dash indicates data not available.
There are breaks in series for the United States (1998, 1999, 2000, 2003, 2004), Australia (2001), Germany (1999, 2005), the Netherlands (2000), and Sweden (2005). For further
qualifications and historical annual data, see the BLS report Comparative

Civilian Labor Force Statistics, 10 Countries (on the Internet at http://www.bls.gov/fis/flscomparelf.htm). Unemployment rates may differ from those in the BLS report Unemployment rates in 10 countries, civilian labor force basis, approximating U.S. concepts, seasonally adjusted (on the Internet at http://www.bls.gov/fls/flsjec.pdf), because the former is updated semi-annually, whereas the latter is updated monthly and reflects the most recent revisions in source data.

## 53. Annual indexes of manufacturing productivity and related measures, 16 economies

| Measure and economy | 1980 | 1990 | 1993 | 1994 | 1995 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Output per hour |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States. | 58.6 | 80.1 | 88.1 | 92.7 | 96.2 | 104.2 | 111.5 | 117.1 | 126.1 | 127.4 | 140.9 | 149.8 | 159.0 | 162.4 | 165.9 | 172.7 |
| Canada. | 66.5 | 85.2 | 94.0 | 99.3 | 100.5 | 104.5 | 109.6 | 114.2 | 121.1 | 118.5 | 120.5 | 121.1 | 123.1 | 127.8 | 127.7 | 130.4 |
| Australia. | 72.6 | 91.1 | 96.2 | 98.7 | 97.2 | 102.2 | 107.3 | 109.0 | 115.2 | 117.9 | 123.2 | 125.5 | 127.2 | 128.1 | 129.4 | 133.4 |
| Japan. | 54.8 | 81.3 | 87.6 | 89.0 | 95.6 | 103.5 | 104.5 | 107.3 | 113.0 | 110.6 | 114.7 | 122.5 | 131.0 | 139.6 | 142.2 | 146.2 |
| Korea, Rep. o | - | 58.0 | 75.9 | 82.8 | 90.9 | 112.8 | 125.7 | 139.8 | 151.7 | 150.6 | 165.3 | 176.8 | 197.2 | 212.1 | 233.5 | 253.9 |
| Taiwan. | 40.4 | 73.9 | 83.4 | 86.6 | 93.0 | 104.1 | 109.2 | 116.0 | 122.2 | 127.7 | 139.2 | 143.6 | 150.9 | 162.3 | 173.9 | 189.0 |
| Belgium. | 57.2 | 84.7 | 89.6 | 94.4 | 98.6 | 109.8 | 111.2 | 110.2 | 114.1 | 115.3 | 119.1 | 122.0 | 127.6 | 131.5 | 134.4 | 137.3 |
| Denmark. | 75.3 | 90.3 | 92.0 | 103.4 | 103.4 | 108.0 | 107.4 | 109.1 | 113.0 | 113.2 | 113.9 | 118.7 | 125.5 | 126.9 | 133.4 | 134.3 |
| France. | 56.9 | 84.2 | 90.0 | 95.9 | 99.7 | 105.9 | 111.4 | 116.2 | 124.5 | 127.0 | 132.4 | 138.4 | 142.2 | 148.7 | 154.6 | 158.5 |
| Germany. | 67.1 | 86.1 | 89.1 | 95.8 | 97.3 | 105.9 | 106.3 | 108.9 | 116.5 | 119.5 | 120.7 | 125.0 | 129.7 | 134.6 | 144.1 | 151.3 |
| Italy. | 60.1 | 82.5 | 87.2 | 94.9 | 99.5 | 102.0 | 100.6 | 101.4 | 106.7 | 107.0 | 105.7 | 103.5 | 105.0 | 106.4 | 105.9 | 105.4 |
| Netherlands. | 58.7 | 81.4 | 86.2 | 94.1 | 97.9 | 100.3 | 103.2 | 107.4 | 115.2 | 115.7 | 119.2 | 121.7 | 129.9 | 135.8 | 140.2 | 144.0 |
| Norway. | 77.3 | 96.8 | 98.3 | 98.3 | 97.1 | 100.2 | 97.7 | 101.1 | 104.2 | 107.1 | 110.2 | 119.7 | 126.8 | 131.2 | 135.0 | 134.7 |
| Spain. | 62.8 | 86.8 | 94.9 | 97.8 | 101.2 | 101.0 | 102.7 | 104.5 | 105.6 | 108.0 | 108.4 | 111.1 | 113.2 | 115.4 | 117.7 | 122.2 |
| Sweden. | 60.0 | 73.9 | 82.6 | 91.1 | 96.8 | 109.1 | 115.6 | 126.2 | 134.8 | 131.0 | 145.3 | 157.1 | 173.9 | 184.7 | 195.6 | 197.3 |
| United Kingdom. | 55.9 | 87.8 | 100.1 | 102.7 | 101.0 | 102.0 | 102.9 | 107.8 | 115.2 | 119.4 | 122.4 | 128.2 | 136.0 | 140.2 | 147.0 | 150.8 |
| Output |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States | 60.5 | 80.7 | 85.7 | 92.2 | 96.4 | 106.1 | 113.2 | 118.1 | 125.5 | 118.5 | 121.8 | 123.2 | 130.1 | 131.4 | 135.2 | 138.3 |
| Canada. | 71.2 | 88.7 | 87.7 | 94.4 | 98.7 | 106.3 | 111.7 | 121.0 | 133.1 | 128.0 | 129.0 | 128.3 | 131.4 | 133.5 | 132.2 | 130.8 |
| Australia. | 80.2 | 93.1 | 92.7 | 97.5 | 96.9 | 102.3 | 105.2 | 105.0 | 109.9 | 108.9 | 114.2 | 116.2 | 116.3 | 115.8 | 114.7 | 118.6 |
| Japan. | 59.0 | 94.3 | 93.5 | 92.1 | 95.9 | 102.5 | 97.1 | 96.7 | 101.8 | 96.2 | 94.7 | 99.8 | 105.6 | 111.1 | 115.8 | 119.0 |
| Korea, Rep. o | 20.5 | 63.2 | 75.5 | 84.1 | 94.0 | 104.9 | 96.6 | 117.6 | 137.6 | 140.6 | 151.2 | 159.6 | 177.3 | 189.8 | 205.9 | 219.3 |
| Taiwan. | 38.2 | 76.7 | 85.0 | 90.1 | 95.0 | 105.7 | 109.1 | 117.1 | 125.7 | 116.4 | 126.7 | 133.5 | 146.5 | 156.7 | 168.4 | 185.8 |
| Belgium. | 74.8 | 96.6 | 92.8 | 97.0 | 99.6 | 108.2 | 110.1 | 110.2 | 114.9 | 114.9 | 114.0 | 112.5 | 116.6 | 116.3 | 119.4 | 122.4 |
| Denmark. | 85.6 | 94.7 | 90.3 | 100.0 | 104.8 | 108.2 | 109.1 | 110.0 | 113.9 | 114.0 | 110.7 | 107.6 | 109.3 | 105.9 | 111.7 | 116.2 |
| France. | 83.2 | 97.5 | 93.8 | 96.8 | 100.3 | 104.7 | 109.7 | 113.4 | 118.6 | 119.8 | 119.7 | 121.9 | 123.0 | 125.9 | 127.2 | 128.8 |
| Germany. | 92.3 | 107.2 | 99.9 | 103.1 | 102.1 | 104.4 | 105.6 | 106.6 | 113.9 | 115.8 | 113.4 | 114.2 | 118.3 | 120.0 | 127.0 | 135.0 |
| Italy. | 74.7 | 92.6 | 89.9 | 95.9 | 100.5 | 101.5 | 102.4 | 102.2 | 106.5 | 106.2 | 105.0 | 102.2 | 103.0 | 102.5 | 103.7 | 104.8 |
| Netherlands. | 70.5 | 89.2 | 90.2 | 95.0 | 98.6 | 101.4 | 104.8 | 108.7 | 116.0 | 115.8 | 115.9 | 114.6 | 118.5 | 120.9 | 124.1 | 128.1 |
| Norway. | 96.7 | 92.9 | 93.2 | 95.7 | 96.1 | 104.3 | 103.6 | 103.5 | 102.9 | 102.2 | 101.6 | 105.0 | 111.0 | 115.9 | 123.9 | 129.3 |
| Spain. | 75.5 | 94.6 | 92.4 | 94.0 | 97.6 | 106.4 | 112.9 | 119.3 | 124.6 | 128.6 | 128.4 | 130.0 | 130.9 | 132.4 | 134.8 | 138.6 |
| Sweden. | 67.1 | 80.4 | 74.1 | 85.5 | 96.8 | 107.8 | 116.7 | 127.6 | 138.1 | 134.9 | 143.4 | 150.4 | 164.2 | 171.8 | 180.6 | 185.2 |
| United Kingdom. | 80.3 | 96.9 | 93.4 | 97.8 | 99.3 | 101.8 | 102.4 | 103.4 | 105.8 | 104.5 | 101.7 | 101.9 | 104.0 | 102.8 | 104.4 | 105.0 |
| Total hours |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States. | 103.3 | 100.7 | 97.3 | 99.5 | 100.2 | 101.8 | 101.5 | 100.9 | 99.6 | 93.0 | 86.5 | 82.2 | 81.8 | 80.9 | 81.5 | 80.1 |
| Canada. | 107.0 | 104.1 | 93.3 | 95.1 | 98.3 | 101.6 | 101.9 | 105.9 | 109.9 | 107.9 | 107.1 | 105.9 | 106.7 | 104.4 | 103.5 | 100.3 |
| Australia. | 110.5 | 102.2 | 96.4 | 98.7 | 99.7 | 100.1 | 98.1 | 96.3 | 95.4 | 92.3 | 92.7 | 92.6 | 91.4 | 90.4 | 88.7 | 88.9 |
| Japan. | 107.6 | 115.9 | 106.7 | 103.5 | 100.4 | 99.1 | 92.9 | 90.2 | 90.1 | 87.0 | 82.6 | 81.4 | 80.6 | 79.6 | 81.5 | 81.4 |
| Korea, Rep. of | - | 109.0 | 99.5 | 101.6 | 103.3 | 93.0 | 76.8 | 84.1 | 90.7 | 93.3 | 91.5 | 90.2 | 89.9 | 89.5 | 88.2 | 86.4 |
| Taiwan. | 94.5 | 103.7 | 101.9 | 104.0 | 102.2 | 101.6 | 99.9 | 101.0 | 102.9 | 91.1 | 91.1 | 92.9 | 97.1 | 96.5 | 96.8 | 98.3 |
| Belgium. | 130.9 | 114.1 | 103.5 | 102.8 | 101.0 | 98.6 | 98.9 | 100.0 | 100.6 | 99.6 | 95.7 | 92.2 | 91.4 | 88.5 | 88.9 | 89.2 |
| Denmark. | 113.7 | 104.8 | 98.1 | 96.7 | 101.4 | 100.2 | 101.5 | 100.8 | 100.8 | 100.7 | 97.2 | 90.7 | 87.1 | 83.5 | 83.7 | 86.5 |
| France. | 146.3 | 115.8 | 104.1 | 101.0 | 100.6 | 98.9 | 98.5 | 97.6 | 95.3 | 94.3 | 90.4 | 88.1 | 86.5 | 84.7 | 82.3 | 81.2 |
| Germany. | 137.4 | 124.6 | 112.1 | 107.6 | 105.0 | 98.6 | 99.4 | 97.9 | 97.7 | 96.9 | 94.0 | 91.4 | 91.2 | 89.2 | 88.1 | 89.2 |
| Italy. | 124.3 | 112.2 | 103.1 | 101.1 | 100.9 | 99.5 | 101.8 | 100.8 | 99.9 | 99.3 | 99.3 | 98.8 | 98.1 | 96.4 | 97.9 | 99.4 |
| Netherlands. | 120.1 | 109.6 | 104.6 | 100.9 | 100.7 | 101.0 | 101.5 | 101.2 | 100.7 | 100.1 | 97.2 | 94.1 | 91.2 | 89.0 | 88.5 | 88.9 |
| Norway. | 125.1 | 96.0 | 94.8 | 97.3 | 99.0 | 104.1 | 106.1 | 102.4 | 98.8 | 95.4 | 92.3 | 87.7 | 87.5 | 88.4 | 91.8 | 96.0 |
| Spain. | 120.3 | 109.0 | 97.4 | 96.1 | 96.4 | 105.4 | 109.9 | 114.1 | 118.0 | 119.0 | 118.4 | 117.0 | 115.6 | 114.7 | 114.6 | 113.4 |
| Sweden. | 111.8 | 108.8 | 89.7 | 93.9 | 100.0 | 98.8 | 100.9 | 101.1 | 102.4 | 103.0 | 98.7 | 95.7 | 94.4 | 93.0 | 92.4 | 93.9 |
| United Kingdom. | 143.8 | 110.4 | 93.3 | 95.2 | 98.3 | 99.8 | 99.6 | 95.9 | 91.8 | 87.5 | 83.1 | 79.5 | 76.5 | 73.3 | 71.0 | 69.6 |
| Hourly compensation (national currency basis) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States. | 51.2 | 82.7 | 93.3 | 96.3 | 98.1 | 102.6 | 108.6 | 112.9 | 123.2 | 126.1 | 135.2 | 144.7 | 147.7 | 150.5 | 156.7 | 162.2 |
| Canada. | 43.8 | 82.4 | 93.5 | 96.2 | 98.5 | 102.4 | 107.7 | 110.0 | 113.6 | 116.7 | 120.6 | 125.5 | 129.1 | 135.4 | 138.0 | 143.2 |
| Australia. | - | 79.5 | 89.3 | 90.4 | 95.7 | 103.0 | 107.3 | 111.7 | 116.3 | 123.6 | 129.3 | 134.5 | 141.6 | 150.7 | 160.3 | 169.9 |
| Japan.. | 53.7 | 83.0 | 94.1 | 96.0 | 99.2 | 103.3 | 105.9 | 105.7 | 105.1 | 106.5 | 107.2 | 104.9 | 105.9 | 106.8 | 105.3 | 105.0 |
| Korea, Rep. of | - | 36.1 | 61.6 | 70.8 | 85.9 | 108.7 | 118.4 | 119.0 | 127.1 | 131.1 | 144.4 | 151.5 | 173.0 | 186.8 | 202.9 | 218.6 |
| Taiwan. | 23.1 | 66.5 | 82.6 | 86.6 | 93.8 | 103.1 | 107.0 | 108.9 | 111.0 | 118.1 | 114.4 | 116.3 | 118.2 | 122.8 | 125.2 | 127.2 |
| Belgium. | 47.5 | 81.4 | 94.8 | 95.5 | 98.2 | 103.8 | 105.3 | 106.7 | 108.6 | 114.3 | 119.3 | 122.8 | 125.4 | 129.8 | 132.5 | 136.0 |
| Denmark. | 39.5 | 83.1 | 90.9 | 94.1 | 96.0 | 103.4 | 106.1 | 108.8 | 110.9 | 116.2 | 121.2 | 129.4 | 134.4 | 143.6 | 148.0 | 150.5 |
| France. | 34.6 | 78.9 | 91.8 | 95.3 | 98.1 | 102.9 | 103.7 | 107.0 | 112.8 | 115.8 | 122.8 | 125.7 | 129.7 | 134.4 | 140.9 | 145.0 |
| Germany. | 43.3 | 72.3 | 86.7 | 90.6 | 95.5 | 102.0 | 103.4 | 105.8 | 111.3 | 114.7 | 117.5 | 120.2 | 120.9 | 122.4 | 127.5 | 129.7 |
| Italy.. | 22.6 | 70.5 | 85.1 | 89.6 | 94.9 | 104.7 | 102.8 | 105.4 | 108.1 | 111.8 | 115.0 | 119.3 | 123.4 | 127.4 | 129.9 | 132.7 |
| Netherlands. | 52.4 | 79.0 | 91.7 | 95.7 | 98.3 | 102.3 | 106.7 | 110.5 | 116.1 | 121.4 | 128.4 | 133.5 | 139.0 | 141.1 | 145.0 | 149.3 |
| Norway.. | 34.3 | 81.2 | 89.2 | 91.9 | 96.0 | 104.5 | 110.6 | 116.9 | 123.5 | 130.9 | 138.8 | 144.5 | 149.2 | 156.2 | 165.1 | 172.9 |
| Spain.. | 23.1 | 65.9 | 90.3 | 93.6 | 97.6 | 102.4 | 103.2 | 102.9 | 104.5 | 108.7 | 111.8 | 117.4 | 121.5 | 127.3 | 132.7 | 139.2 |
| Sweden. | 32.9 | 77.4 | 85.8 | 88.0 | 92.8 | 105.4 | 109.4 | 112.8 | 117.2 | 122.8 | 129.4 | 135.2 | 138.9 | 143.6 | 147.7 | 152.9 |
| United Kingdom. | 33.4 | 82.8 | 96.2 | 98.6 | 100.3 | 104.4 | 112.3 | 118.9 | 126.2 | 131.8 | 139.1 | 146.1 | 153.7 | 159.7 | 171.0 | 175.3 |

[^27]53. Continued-Annual indexes of manufacturing productivity and related measures, 16 economies

| Measure and economy | 1980 | 1990 | 1993 | 1994 | 1995 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Unit labor costs (national currency basis) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States.. | 87.4 | 103.3 | 106.0 | 103.9 | 102.0 | 98.5 | 97.4 | 96.4 | 97.7 | 99.0 | 96.0 | 96.6 | 92.9 | 92.6 | 94.4 | 93.9 |
| Canada. | 65.9 | 96.7 | 99.5 | 96.9 | 98.0 | 98.0 | 98.3 | 96.3 | 93.8 | 98.5 | 100.0 | 103.6 | 104.9 | 106.0 | 108.1 | 109.8 |
| Australia. | - | 87.3 | 92.8 | 91.5 | 98.4 | 100.7 | 100.0 | 102.4 | 100.9 | 104.8 | 105.0 | 107.1 | 111.3 | 117.6 | 123.9 | 127.4 |
| Japan.. | 98.0 | 102.1 | 107.5 | 107.9 | 103.8 | 99.8 | 101.3 | 98.6 | 93.0 | 96.2 | 93.5 | 85.6 | 80.8 | 76.5 | 74.0 | 71.8 |
| Korea, Rep. of. | 33.6 | 62.3 | 81.2 | 85.5 | 94.5 | 96.4 | 94.2 | 85.1 | 83.8 | 87.0 | 87.3 | 85.7 | 87.8 | 88.1 | 86.9 | 86.1 |
| Taiwan. | 57.1 | 89.9 | 99.1 | 100.0 | 100.9 | 99.0 | 97.9 | 93.9 | 90.9 | 92.5 | 82.2 | 81.0 | 78.4 | 75.7 | 72.0 | 67.3 |
| Belgium. | 83.0 | 96.1 | 105.7 | 101.2 | 99.6 | 94.5 | 94.7 | 96.9 | 95.1 | 99.1 | 100.2 | 100.6 | 98.3 | 98.7 | 98.6 | 99.1 |
| Denmark. | 52.5 | 91.9 | 98.9 | 91.0 | 92.9 | 95.7 | 98.8 | 99.7 | 98.1 | 102.7 | 106.4 | 109.0 | 107.0 | 113.1 | 110.9 | 112.1 |
| France. | 60.9 | 93.7 | 102.0 | 99.4 | 98.5 | 97.2 | 93.1 | 92.1 | 90.6 | 91.2 | 92.8 | 90.8 | 91.2 | 90.4 | 91.2 | 91.5 |
| Germany | 64.5 | 84.0 | 97.3 | 94.6 | 98.2 | 96.3 | 97.3 | 97.1 | 95.5 | 96.0 | 97.4 | 96.1 | 93.2 | 91.0 | 88.5 | 85.7 |
| Italy.. | 37.6 | 85.4 | 97.5 | 94.4 | 95.3 | 102.7 | 102.2 | 104.0 | 101.4 | 104.5 | 108.7 | 115.3 | 117.6 | 119.8 | 122.6 | 125.8 |
| Netherlands. | 89.4 | 97.0 | 106.4 | 101.7 | 100.4 | 102.0 | 103.3 | 102.8 | 100.8 | 104.9 | 107.7 | 109.7 | 107.0 | 103.9 | 103.5 | 103.6 |
| Norway. | 44.4 | 83.9 | 90.7 | 93.4 | 98.9 | 104.2 | 113.2 | 115.7 | 118.5 | 122.2 | 126.0 | 120.7 | 117.6 | 119.1 | 122.3 | 128.3 |
| Spain. | 36.8 | 76.0 | 95.1 | 95.7 | 96.5 | 101.4 | 100.4 | 98.5 | 99.0 | 100.6 | 103.1 | 105.6 | 107.3 | 110.3 | 112.7 | 113.9 |
| Sweden. | 54.9 | 104.8 | 103.9 | 96.6 | 95.8 | 96.6 | 94.7 | 89.4 | 86.9 | 93.8 | 89.1 | 86.1 | 79.9 | 77.8 | 75.5 | 77.5 |
| United Kingdom.. | 59.8 | 94.3 | 96.1 | 96.0 | 99.4 | 102.4 | 109.2 | 110.3 | 109.5 | 110.4 | 113.7 | 113.9 | 113.0 | 113.9 | 116.3 | 116.2 |
| Unit labor costs (U.S. dollar basis) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| United States. | 87.4 | 103.3 | 106.0 | 103.9 | 102.0 | 98.5 | 97.4 | 96.4 | 97.7 | 99.0 | 96.0 | 96.6 | 92.9 | 92.6 | 94.4 | 93.9 |
| Canada. | 76.8 | 113.1 | 105.2 | 96.7 | 97.4 | 96.5 | 90.4 | 88.4 | 86.1 | 86.7 | 86.9 | 100.9 | 109.9 | 119.3 | 130.0 | 139.5 |
| Australia. | - | 87.1 | 80.6 | 85.5 | 93.1 | 95.7 | 80.4 | 84.5 | 75.0 | 69.2 | 72.9 | 89.3 | 104.7 | 114.6 | 119.3 | 136.6 |
| Japan.. | 47.0 | 76.6 | 105.2 | 114.8 | 120.2 | 89.7 | 84.1 | 94.3 | 93.9 | 86.1 | 81.2 | 80.3 | 81.3 | 75.6 | 69.2 | 66.3 |
| Korea, Rep. of. | 44.6 | 70.5 | 81.1 | 85.3 | 98.4 | 81.9 | 54.1 | 57.6 | 59.6 | 54.2 | 56.2 | 57.9 | 61.7 | 69.3 | 73.3 | 74.6 |
| Taiwan. | 43.6 | 91.8 | 103.0 | 103.8 | 104.6 | 94.5 | 80.2 | 79.8 | 79.9 | 75.1 | 65.4 | 64.6 | 64.5 | 64.7 | 60.8 | 56.3 |
| Belgium. | 87.9 | 89.1 | 94.7 | 93.7 | 104.7 | 81.7 | 80.8 | 79.2 | 67.4 | 68.1 | 72.7 | 87.4 | 93.9 | 94.3 | 95.1 | 104.3 |
| Denmark. | 54.1 | 86.2 | 88.4 | 83.1 | 96.2 | 84.0 | 85.5 | 82.7 | 70.3 | 71.5 | 78.2 | 96.1 | 103.7 | 109.5 | 108.3 | 119.5 |
| France. | 73.7 | 88.0 | 92.1 | 91.7 | 101.0 | 85.2 | 80.7 | 76.5 | 65.2 | 63.7 | 68.4 | 80.2 | 88.5 | 87.8 | 89.3 | 97.8 |
| Germany. | 53.4 | 78.2 | 88.5 | 87.8 | 103.2 | 83.5 | 83.2 | 79.6 | 67.8 | 66.1 | 70.8 | 83.7 | 89.2 | 87.1 | 85.5 | 90.5 |
| Italy... | 67.7 | 110.0 | 95.6 | 90.4 | 90.2 | 93.0 | 90.8 | 88.2 | 74.6 | 74.5 | 81.9 | 104.0 | 116.5 | 118.8 | 122.7 | 137.5 |
| Netherlands.. | 75.8 | 89.8 | 96.6 | 94.3 | 105.6 | 88.1 | 87.8 | 83.8 | 71.2 | 71.9 | 77.9 | 95.0 | 101.8 | 98.9 | 99.5 | 108.7 |
| Norway.. | 58.1 | 86.6 | 82.6 | 85.5 | 100.8 | 95.0 | 96.8 | 95.7 | 86.9 | 87.8 | 101.9 | 110.1 | 112.7 | 119.4 | 123.2 | 141.6 |
| Spain. | 65.0 | 94.4 | 94.5 | 90.5 | 98.0 | 87.6 | 85.1 | 79.9 | 69.6 | 68.6 | 74.2 | 91.1 | 101.6 | 104.5 | 107.8 | 118.9 |
| Sweden.. | 87.0 | 118.7 | 89.4 | 84.0 | 90.0 | 84.7 | 79.8 | 72.5 | 63.6 | 60.8 | 61.4 | 71.5 | 72.9 | 69.8 | 68.7 | 77.0 |
| United Kingdom................. | 89.1 | 107.8 | 92.5 | 94.3 | 100.5 | 107.4 | 116.0 | 114.3 | 106.4 | 101.9 | 109.5 | 119.3 | 132.7 | 132.9 | 137.4 | 149.1 |

NOTE: Data for Germany for years before 1993 are for the former West Germany. Data for 1993 onward are for unified Germany. Dash indicates data not available.
54. Occupational injury and illness rates by industry, ${ }^{1}$ United States

54. Continued-Occupational injury and illness rates by industry, United States

| Industry and type of case ${ }^{2}$ | Incidence rates per 100 workers ${ }^{3}$ |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $1989{ }^{1}$ | 1990 | 1991 | 1992 | $1993{ }^{4}$ | $1994{ }^{4}$ | $1995{ }^{4}$ | $1996{ }^{4}$ | $1997{ }^{4}$ | $1998{ }^{4}$ | $1999{ }^{4}$ | $2000{ }^{4}$ | $2001{ }^{4}$ |
| Nondurable goods: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases | 11.6 | 11.7 | 11.5 | 11.3 | 10.7 | 10.5 | 9.9 | 9.2 | 8.8 | 8.2 | 7.8 | 7.8 | 6.8 |
| Lost workday cases.. | 5.5 | 5.6 | 5.5 | 5.3 | 5.0 | 5.1 | 4.9 | 4.6 | 4.4 | 4.3 | 4.2 | 4.2 | 3.8 |
| Lost workdays......... | 107.8 | 116.9 | 119.7 | 121.8 | - | - | - | - | - | - | - | - | - |
| Food and kindred products: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases . | 18.5 | 20.0 | 19.5 | 18.8 | 17.6 | 17.1 | 16.3 | 15.0 | 14.5 | 13.6 | 12.7 | 12.4 | 10.9 |
| Lost workday cases.. | 9.3 | 9.9 | 9.9 | 9.5 | 8.9 | 9.2 | 8.7 | 8.0 | 8.0 | 7.5 | 7.3 | 7.3 | 6.3 |
| Lost workdays... | 174.7 | 202.6 | 207.2 | 211.9 | - | - | - | - | - | - | - | - | - |
| Tobacco products: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lost workday cases.. | 3.4 | 3.2 | 2.8 | 2.4 | 2.3 | 2.4 | 2.6 | 2.8 | 2.7 | 3.4 | 2.2 | 3.1 | 4.2 |
| Lost workdays...... | 64.2 | 62.3 | 52.0 | 42.9 | - | - | - | - | - | - | - | - | - |
| Textile mill products: |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 10.3 | 9.6 | 10.1 | 9.9 | 9.7 | 8.7 | 8.2 | 7.8 | 6.7 | 7.4 | 6.4 | 6.0 | 5.2 |
| Lost workday cases.. | 4.2 | 4.0 | 4.4 | 4.2 | 4.1 | 4.0 | 4.1 | 3.6 | 3.1 | 3.4 | 3.2 | 3.2 | 2.7 |
| Lost workdays... | 81.4 | 85.1 | 88.3 | 87.1 | - | - | - | - | - | - | - | - | - |
| Apparel and other textile products: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases ........ | 8.6 | 8.8 | 9.2 | 9.5 | 9.0 | 8.9 | 8.2 | 7.4 | 7.0 | 6.2 | 5.8 | 6.1 | 5.0 |
| Lost workday cases.. | 3.8 | 3.9 | 4.2 | 4.0 | 3.8 | 3.9 | 3.6 | 3.3 | 3.1 | 2.6 | 2.8 | 3.0 | 2.4 |
| Lost workdays......... | 80.5 | 92.1 | 99.9 | 104.6 | - | - | - | - | - | - | - | - | - |
| Paper and allied products: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases .................. | 12.7 | 12.1 | 11.2 | 11.0 | 9.9 | 9.6 | 8.5 | 7.9 | 7.3 | 7.1 | 7.0 | 6.5 | 6.0 |
| Lost workday cases.. | 5.8 | 5.5 | 5.0 | 5.0 | 4.6 | 4.5 | 4.2 | 3.8 | 3.7 | 3.7 | 3.7 | 3.4 | 3.2 |
| Lost workdays.... | 132.9 | 124.8 | 122.7 | 125.9 | - | - | - | - | - | - | - | - | - |
| Printing and publishing: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases ............... | 6.9 | 6.9 | 6.7 | 7.3 | 6.9 | 6.7 | 6.4 | 6.0 | 5.7 | 5.4 | 5.0 | 5.1 | 4.6 |
| Lost workday cases.. | 3.3 | 3.3 | 3.2 | 3.2 | 3.1 | 3.0 | 3.0 | 2.8 | 2.7 | 2.8 | 2.6 | 2.6 | 2.4 |
| Lost workdays... | 63.8 | 69.8 | 74.5 | 74.8 | - | - | - | - | - | - | - | - | - |
| Chemicals and allied products: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases ............. | 7.0 | 6.5 | 6.4 | 6.0 | 5.9 | 5.7 | 5.5 | 4.8 | 4.8 | 4.2 | 4.4 | 4.2 | 4.0 |
| Lost workday cases.. | 3.2 | 3.1 | 3.1 | 2.8 | 2.7 | 2.8 | 2.7 | 2.4 | 2.3 | 2.1 | 2.3 | 2.2 | 2.1 |
| Lost workdays... | 63.4 | 61.6 | 62.4 | 64.2 | - | - | - | - | - | - | - | - | - |
| Petroleum and coal products: |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 6.6 | 6.6 | 6.2 | 5.9 | 5.2 | 4.7 | 4.8 | 4.6 | 4.3 | 3.9 | 4.1 | 3.7 | 2.9 |
| Lost workday cases...... | 3.3 | 3.1 | 2.9 | 2.8 | 2.5 | 2.3 | 2.4 | 2.5 | 2.2 | 1.8 | 1.8 | 1.9 | 1.4 |
| Lost workdays.... | 68.1 | 77.3 | 68.2 | 71.2 | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases | 16.2 | 16.2 | 15.1 | 14.5 | 13.9 | 14.0 | 12.9 | 12.3 | 11.9 | 11.2 | 10.1 | 10.7 | 8.7 |
| Lost workday cases.. | 8.0 | 7.8 | 7.2 | 6.8 | 6.5 | 6.7 | 6.5 | 6.3 | 5.8 | 5.8 | 5.5 | 5.8 | 4.8 |
| Lost workdays.. | 147.2 | 151.3 | 150.9 | 153.3 | - | - | - | - | - | - | - | - | - |
| Leather and leather products: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases ............. | 13.6 | 12.1 | 12.5 | 12.1 | 12.1 | 12.0 | 11.4 | 10.7 | 10.6 | 9.8 | 10.3 | 9.0 | 8.7 |
| Lost workday cases... | 6.5 | 5.9 | 5.9 | 5.4 | 5.5 | 5.3 | 4.8 | 4.5 | 4.3 | 4.5 | 5.0 | 4.3 | 4.4 |
|  | 130.4 | 152.3 | 140.8 | 128.5 | - | - | - | - | - | - | - | - | - |
| Transportation and public utilities |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases .. | 9.2 | 9.6 | 9.3 | 9.1 | 9.5 | 9.3 | 9.1 | 8.7 | 8.2 | 7.3 | 7.3 | 6.9 | 6.9 |
| Lost workday cases... | 5.3 | 5.5 | 5.4 | 5.1 | 5.4 | 5.5 | 5.2 | 5.1 | 4.8 | 4.3 | 4.4 | 4.3 | 4.3 |
| Lost workdays... | 121.5 | 134.1 | 140.0 | 144.0 | - | - | - | - | - | - | - | - | - |
| Wholesale and retail trade |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases | 8.0 | 7.9 | 7.6 | 8.4 | 8.1 | 7.9 | 7.5 | 6.8 | 6.7 | 6.5 | 6.1 | 5.9 | 6.6 |
| Lost workday cases.. | 3.6 | 3.5 | 3.4 | 3.5 | 3.4 | 3.4 | 3.2 | 2.9 | 3.0 | 2.8 | 2.7 | 2.7 | 2.5 |
| Lost workdays......... | 63.5 | 65.6 | 72.0 | 80.1 | - | - | - | - | - | - | - | - | - |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases ...... | 7.7 | 7.4 | 7.2 | 7.6 | 7.8 | 7.7 | 7.5 | 6.6 | 6.5 | 6.5 | 6.3 | 5.8 | 5.3 |
| Lost workday cases... | 4.0 | 3.7 | 3.7 | 3.6 | 3.7 | 3.8 | 3.6 | 3.4 | 3.2 | 3.3 | 3.3 | 3.1 | 2.8 |
| Lost workdays........... | 71.9 | 71.5 | 79.2 | 82.4 | - | - | - | - | - | - | - | - | - |
| Retail trade: |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lost workday cases.. | 3.4 | 3.4 | 3.3 | 3.4 | 3.3 | 3.3 | 3.0 | 2.8 | 2.9 | 2.7 | 2.5 | 2.5 | 2.4 |
| Lost workdays........................................ | 60.0 | 63.2 | 69.1 | 79.2 | - | - | - | - | - | - | - | - | - |
| Finance, insurance, and real estate |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases ................. | 2.0 | 2.4 | 2.4 | 2.9 | 2.9 | 2.7 | 2.6 | 2.4 | 2.2 | . 7 | 1.8 | 1.9 | 1.8 |
| Lost workday cases.......... | . 9 | 1.1 | 1.1 | 1.2 | 1.2 | 1.1 | 1.0 | . 9 | . 9 | . 5 | . 8 | . 8 | . 7 |
| Lost workdays... | 17.6 | 27.3 | 24.1 | 32.9 | - | - | - | - | - | - | - | - | - |
| Services |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total cases ............ | 5.5 | 6.0 | 6.2 | 7.1 | 6.7 | 6.5 | 6.4 | 6.0 | 5.6 | 5.2 | 4.9 | 4.9 | 4.6 |
| Lost workday cases....... | 2.7 | 2.8 | 2.8 | 3.0 | 2.8 | 2.8 | 2.8 | 2.6 | 2.5 | 2.4 | 2.2 | 2.2 | 2.2 |
| Lost workdays....................................... | 51.2 | 56.4 | 60.0 | 68.6 | - | $-$ | - | - | - | - | - | $-$ | - |

${ }^{1}$ Data for 1989 and subsequent years are based on the Standard Industrial Classification Manual, 1987 Edition. For this reason, they are not strictly comparable with data for the years 1985-88, which were based on the Standard Industrial Classification Manual, 1972 Edition, 1977 Supplement.
${ }^{2}$ Beginning with the 1992 survey, the annual survey measures only nonfatal injuries and illnesses, while past surveys covered both fatal and nonfatal incidents. To better address fatalities, a basic element of workplace safety, BLS implemented the Census of Fatal Occupational Injuries.
${ }^{3}$ 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 the calendar year; and $200,000=$ base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks per year).
${ }^{4}$ Beginning with the 1993 survey, lost workday estimates will not be generated. As of 1992, BLS began generating percent distributions and the median number of days away from work by industry and for groups of workers sustaining similar work disabilities.
${ }^{5}$ Excludes farms with fewer than 11 employees since 1976.
NOTE: Dash indicates data not available.
55. Fatal occupational injuries by event or exposure, 1996-2005

| Event or exposure ${ }^{1}$ | 1996-2000 <br> (average) | 2001-2005 <br> (average) $^{2}$ | 20053 |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | Number | Percent |
| All events | 6,094 | 5,704 | 5,734 | 100 |
| Transportation incidents | 2,608 | 2,451 | 2,493 | 43 |
| Highway | 1,408 | 1,394 | 1,437 | 25 |
| Collision between vehicles, mobile equipment | 685 | 686 | 718 | 13 |
| Moving in same direction .............................. | 117 | 151 | 175 | 3 |
| Moving in opposite directions, oncoming ............. | 247 | 254 | 265 | 5 |
| Moving in intersection | 151 | 137 | 134 | 2 |
| Vehicle struck stationary object or equipment on side of road | 264 | 310 | 345 | 6 |
| Noncollision | 372 | 335 | 318 | 6 |
| Jack-knifed or overturned--no collision | 298 | 274 | 273 | 5 |
| Nonhighway (farm, industrial premises) | 378 | 335 | 340 | 6 |
| Noncollision accident | 321 | 277 | 281 | 5 |
| Overturned | 212 | 175 | 182 | 3 |
| Worker struck by vehicle, mobile equipment | 376 | 369 | 391 | 7 |
| Worker struck by vehicle, mobile equipment in roadway | 129 | 136 | 140 | 2 |
| Worker struck by vehicle, mobile equipment in parking lot or non-road area $\qquad$ | 171 | 166 | 176 | 3 |
| Water vehicle ........................................................ | 105 | 82 | 88 | 2 |
| Aircraft | 263 | 206 | 149 | 3 |
| Assaults and violent acts | 1,015 | 850 | 792 | 14 |
| Homicides | 766 | 602 | 567 | 10 |
| Shooting | 617 | 465 | 441 | 8 |
| Suicide, self-inflicted injury | 216 | 207 | 180 | 3 |
| Contact with objects and equipment | 1,005 | 952 | 1,005 | 18 |
| Struck by object | 567 | 560 | 607 | 11 |
| Struck by falling object ......................................... | 364 | 345 | 385 | 7 |
| Struck by rolling, sliding objects on floor or ground level | 77 | 89 | 94 | 2 |
| Caught in or compressed by equipment or objects ....... | 293 | 256 | 278 | 5 |
| Caught in running equipment or machinery ............. | 157 | 128 | 121 | 2 |
| Caught in or crushed in collapsing materials ............... | 128 | 118 | 109 | 2 |
| Falls | 714 | 763 | 770 | 13 |
| Fall to lower level | 636 | 669 | 664 | 12 |
| Fall from ladder | 106 | 125 | 129 | 2 |
| Fall from roof | 153 | 154 | 160 | 3 |
| Fall to lower level, n.e.c. ...................................... | 117 | 123 | 117 | 2 |
| Exposure to harmful substances or environments ..... | 535 | 498 | 501 | 9 |
| Contact with electric current ...................................... | 290 | 265 | 251 | 4 |
| Contact with overhead power lines ........................ | 132 | 118 | 112 | 2 |
| Exposure to caustic, noxious, or allergenic substances | 112 | 114 | 136 | 2 |
| Oxygen deficiency .................................................. | 92 | 74 | 59 | 1 |
| Fires and explosions ............................................... | 196 | 174 | 159 | 3 |
| Fires--unintended or uncontrolled ............................ | 103 | 95 | 93 | 2 |
| Explosion .............. | 92 | 78 | 65 | 1 |

1 Based on the 1992 BLS Occupational Injury and Illness Classification Manual.
2 Excludes fatalities from the Sept. 11, 2001, terrorist attacks.
3 The BLS news release of August 10, 2006, reported a total of 5,702 fatal work injuries for calendar year 2005. Since then, an additional 32 job-related fatalities were identified, bringing the total job-related fatality count for 2005 to 5,734 .
NOTE: Totals for all years are revised and final. Totals for major categories may include subcategories not shown separately. Dashes indicate no data reported or data that do not meet publication criteria. N.e.c. means "not elsewhere classified."
SOURCE: U.S. Department of Labor, Bureau of Labor Statistics, in cooperation with State, New York City, District of Columbia, and Federal agencies, Census of Fatal Occupational Injuries.


[^0]:    See footnote at end of table.

[^1]:    ${ }^{1}$ Ownership change subsample employment difference and overall because the OES and QCEW have incomplete coverage of this sector. Table employment difference had opposite signs.
    also excludes OES-designated government industries.

[^2]:    ${ }^{1}$ Slight negative percentage-point difference.
    Nоте: Detailed data on employment may not sum to total employment because not all occupational groups are listed.

[^3]:    ${ }^{1}$ Data on layoffs were reported by employers in all States and the District of Columbia.

[^4]:    NOTE: Many of those papers which are available can be found online at: http://harrisschool.uchicago.edu/research/conferences/NLSYConf/

[^5]:    ${ }^{3}$ Phillipe Belley and Lance Lochner, "The Changing Role of Family Income and Ability in Determining Educational Achievement," Journal of Human Capital, Winter 2007, pp. 37-90.

[^6]:    ${ }^{6}$ Kristin Moore and Kassim Mbwana, "Preventing Risky Sex and Adolescent Parenthood: Does the Effectiveness of Parenting Practices Differ For Children with Varied Risks?" Paper presented at the NLSY97 Tenth Anniversary Conference, Washington, DC, May 2008.

[^7]:    ${ }^{8}$ Michael R. Pergamit, "Who Runs Away from Home? An Exploratory Analysis." Paper presented at the NLSY97 Tenth Anniversary Conference, Washington, DC, May 2008.

[^8]:    ${ }^{1}$ Quarterly data seasonally adjusted.
    2 Annual changes are December-to-December changes. Quarterly changes are calculated using the last month of each quarter
    ${ }^{3}$ The Employment Cost Index data reflect the conversion to the 2002 North American Classification System (NAICS) and the 2000 Standard Occupational Classification (SOC) system. The NAICS and SOC data shown prior to 2006 are for informational purposes only. Series based on NAICS and SOC became the official BLS estimates starting in March 2006.

[^9]:    ${ }^{4}$ Excludes Federal and private household workers.
    ${ }^{5}$ Goods-producing industries include mining, construction, and manufacturing. Serviceproviding industries include all other private sector industries.

    NOTE: Beginning in January 2003, household survey data reflect revised population controls. Nonfarm data reflect the conversion to the 2002 version of the North American Industry Classification System (NAICS), replacing the Standard Industrial Classification (SIC) system. NAICs-based data by industry are not comparable with SIC based data.

[^10]:    ${ }^{1}$ Annual changes are December-to-December changes. 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.
    ${ }^{3}$ The Employment Cost Index data reflect the conversion to the 2002 North American Classification System (NAICS) and the 2000 Standard Occupational Classification (SOC) system. The NAICS and soc data shown prior to 2006 are for informational purposes

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

[^12]:    ${ }^{1}$ Excludes persons "with a job but not at work" during the survey period for such reasons as vacation, illness, or industrial disputes

[^13]:    ${ }^{1}$ Beginning in 2003, persons who selected this race group only; persons who
    selected more than one race group are not included. Prior to 2003, persons who reported more than one race were included in the group they identified as the main race.
    2 Data refer to persons 25 years and older.

[^14]:    Data relate to production workers in natural resources and mining and manufacturing, construction workers in construction, and nonsupervisory NOTE: See "Notes on the data" for a description of the most recent benchmark revision. workers in the service-providing industries.

[^15]:    1 Data relate to production workers in natural resources and mining and manufacturing, NOTE: See "Notes on the data" for a description of the most recent benchmark revision. construction workers in construction, and nonsupervisory workers in the service- Dash indicates data not available

[^16]:    ${ }^{1}$ Detail will not necessarily add to totals because of the independent seasonal adjustment of the various series.
    2 Includes natural resources and mining, information, financial activities, and other services, not shown separately.
    ${ }^{3}$ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont; South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia;

[^17]:    1 Detail will not necessarily add to totals because of the independent seasonal adjustment of the various series.
    2 Includes natural resources and mining, information, financial activities, and othe services, not shown separately.
    ${ }^{3}$ Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont; South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, Wes Virginia;

[^18]:    1 Average weekly wages were calculated using unrounded data.
    2 Totals for the United States do not include data for Puerto Rico
    NOTE: Includes workers covered by Unemployment Insurance (UI) and Unemployment Compensation for Federal Employees (UCFE) programs. Data are preliminary.

[^19]:    See footnotes at end of table.

[^20]:    ${ }^{1}$ Cost (cents per hour worked) measured in the Employment Cost Index consists of wages, salaries, and employer cost of employee benefits
    ${ }^{2}$ Consists 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.

[^21]:    ${ }^{1}$ 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.
    NOTE: The Employment Cost Index data reflect the conversion to the 2002 North

    American Classification System (NAICS) and the 2000 Standard Occupational Classification (SOC) system. The NAICS and SOC data shown prior to 2006 are for informational purposes only. Series based on NAICS and SOC became the official BLS estimates starting in March 2006.

[^22]:    See footnotes at end of table.

[^23]:    See footnotes at end of table

[^24]:    See footnotes at end of table.

[^25]:    ${ }^{1}$ Not seasonally adjusted.
    ${ }^{2}$ Indexes on a December 1997 = 100 base.
    ${ }^{3}$ Indexes on a December $1982=100$ base.

[^26]:    $\mathrm{p}=$ preliminary .

[^27]:    See notes at end of table

